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CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

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Trade-Marks	12—No.	444,296	to No.	444,307, inclusive
T. M. (Act of 1946)	281—No.	532,992	to No.	533,272, inclusive
T. M. Renewals	35			
Reissues	2—No.	23,291	to No.	23,292, inclusive
Plant Patents	2—No.	986	to No.	987, inclusive
Patents	992—No.	2,528,483	to No.	2,529,474, inclusive
Designs	71—No.	160,759	to No.	160,829, inclusive
Total	1,395			

Patents expiring: Patent Numbers 1,933,535 to 1,934,676, inclusive, and Plant Patents, Numbers 79 to 80, inclusive, issued November 7, 1933, expire November 7, 1950

Condition of Applications Under Examination at Close of Business Oct. 20, 1950

Total number of patent applications awaiting action, 127,719. Date of oldest new application, August 3, 1949; date of oldest amended application, July 26, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application awaiting Office action	Oldest amended application awaiting Office action	Applications awaiting action
* C. E. D., Hydraulic and Earth Engineering; Masonry and Concrete Structures; Roads and Pavements			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	11-4-49	11-2-49	2657
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	10-11-49	9-21-49	2081
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	1-5-50	1-26-50	1669
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	8-26-49	8-12-49	2211
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-24-49	9-15-49	1545
6. SURLE, H., Carbon Chemistry (part)	1-23-50	1-6-50	1862
7. GONSALVES, J. E., Optics; Photographic Apparatus	3-31-50	8-21-50	1320
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	8-3-49	8-1-49	2718
9. BENSON, R. B., Pumps and Fans	10-7-49	10-1-49	1505
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	12-30-49	10-13-49	1459
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	9-1-49	9-22-49	1627
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-6-49	11-22-49	1377
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	9-1-49	9-1-49	1966
14. MANIAN, JOSEPH C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	11-4-49	11-7-49	1320
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	2-16-50	2-6-50	1320
16. LOVEWELL, N. N., Television; Telephony	2-3-50	1-20-50	1090
17. LEIGHEY, R. A. Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-3-49	10-25-49	1879
18. KURZ, J. A., Power Plants; Speed Responsive Devices	8-17-49	8-22-49	1702
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11-12-49	10-25-49	1261
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	9-16-49	9-16-49	1994
21. MADER, R. C., Textiles; Package and Article Carriers	9-10-49	10-6-49	1937
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid and Fluid Current Motors	9-14-49	9-22-49	1547
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	10-26-49	10-7-49	784
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	2-25-50	3-6-50	1649
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-4-50	12-23-49	1576
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	10-27-49	10-5-49	1390
27. JAMES, S., Brushing, Scrubbing, Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	11-9-49	11-9-49	2128
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-2-49	9-2-49	1645
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	12-1-49	12-27-49	1770
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	2-14-50	2-13-50	2042
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-9-50	1-19-50	2184
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	1-26-50	12-17-49	1623
33. MUSHAKE, W. I., Bridges; Building Structures (part)	9-1-49	9-8-49	2392
34. SAPERSTEIN, S., Railways; Draft Appliances, Switches and Signals, Surface Track, Rolling Stock; Track Sanders; Electricity-Transmission to Vehicles; Signals and Indicators; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.	11-2-49	9-2-49	1954
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	10-3-49	10-19-49	1810
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	10-14-49	10-8-49	1688
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	11-7-49	10-12-49	1097
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	2-23-50	1-27-50	1473
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	8-11-49	8-8-49	3200
40. DRUMMOND, E. J., Receptacles (part); Packages	12-6-49	11-8-49	3255
41. GURLEY, R. B., Check-Controlled Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-6-49	9-6-49	1698
42. MARANS, H., Telegraphy (part); Electric Signaling; Card, Picture and Sign Exhibiting	1-11-50	11-22-49	1965
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-24-50	12-2-50	1104
44. HARVEY, L. P., Beds; Chairs, Seats	8-12-49	8-6-49	2028

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 127,719. Date of oldest new application, August 3, 1949; date of oldest amended application, July 26, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	11-30-49	10-12-49	1879
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	10-19-49	10-13-49	1408
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	1-19-50	11-17-49	1903
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	1-31-50	10-15-49	1143
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	9-12-49	9-10-49	2213
50. LEVIN, SAMUEL, Synthetic Resins	3-31-50	1-30-50	1752
51. YAFFEE, S., (Acting), Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	12-1-49	11-9-49	1595
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-10-49	8-18-49	3198
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	12-23-49	11-8-49	1306
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	12-31-49	12-21-49	1464
55. KLINE, J. R., (Acting), Artifical Body Members; Dentistry; Surgery; Toilet	1-6-50	12-14-49	1403
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	1-7-50	1-3-50	1719
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	2-23-50	2-23-50	1455
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-16-49	10-13-49	1582
59. SHEPARD, R. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-17-50	1-10-50	1152
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	3-21-50	12-30-49	1154
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-5-49	11-2-49	1952
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	10-21-49	9-14-49	2604
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	1-23-50	1-20-50	1660
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	3-22-50	3-22-50	1752
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-1-50	12-31-49	1819
66. LISANN, L., Geometrical Instruments	11-19-49	8-29-49	1175
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	1-30-50	2-1-50	1356
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-20-50	1-3-50	1567
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-7-49	10-24-49	2025
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	11-1-49	7-26-49	2212
DESIGNS: BREHM, G. L.	9-8-49	5-1-50	4760

Total number of trade-mark applications awaiting action (including renewals and republications), 22,530. Date of oldest new application, Jan. 10, 1950; date of oldest amended application, Jan. 10, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS, AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	1-24-50	1-20-50	6569
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	1-26-50	1-27-50	4064
Renewals (All Classes)	8-18-50	9-19-50	254
Republications (All Classes)	8-28-50	9-19-50	261
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	1-26-50	1-24-50	5512
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-10-50	1-10-50	5870

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE STAEGER

No. 5688. Decided June 30, 1950

[183 F.2d 90; 86 USPQ 368]

1. PATENTABILITY—COMPOSITION OF MATTER—UNEXPECTED ADVANTAGES—IN RE BERGER CONSTRUED.
The decision in *In re Berger*, 31 CCPA (Patents) 1234, 143 F.2d 971, 62 USPQ 299, 568 O. G. 389, did not rest upon lack of evidence of unexpected advantages but upon the fact that, since the properties of melamine-formaldehyde resin were well known and the use of phenolic resins in brake lining was also well known, there would be no invention in trying the melamine resin in a brake lining and finding it was useful.

2. SAME—PARTICULAR SUBJECT MATTER—BRAKE LINING.
Claim to a brake lining composition *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Serial No. 452,628.

AFFIRMED.

E. F. Wenderoth (*A. Ponack* of counsel) for Staeger.

E. L. Reynolds (*S. Wm. Cochran* of counsel) for the Commissioner of Patents.

GARRETT, *C. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the Primary Examiner's rejection, as unpatentable over the cited prior art, of the only claim in appellant's application for patent reading:

19. A brake lining, the coefficient of friction of which shows an increase at the beginning of its use and retains its increased value during prolonged use, consisting essentially of a heat-and-pressure molded dry mixture composed of approximately 20 parts by weight of a powdered heat reactive melamine-formaldehyde condensation product, approximately 35 parts by weight of asbestos in loose form and approximately 20 parts by weight of finely powdered aluminum oxide, said mixture having been molded at a temperature ranging between about 170 and 190° C. and under a pressure of about 200 atmospheres.

The following are the references cited: Achtmeyer, 1,418,607, June 6, 1922; Seabury et al., 1,969,041, Aug. 7, 1934; Nanfeldt (1), 2,061,918, Nov. 24, 1936; Nanfeldt (2), 2,061,919, Nov. 24, 1936; Widmer et al., 2,197,357, Apr. 16, 1940; Nanfeldt (3), 2,273,770, Feb. 17, 1942; British (1) (Tennant), 455,008, Oct. 12, 1936; British (2) (Carpmael), 490,688, Aug. 19, 1938.

In the final analysis the issue in the case appears to rest solely upon the binder element defined in the claim as "a powdered heat reactive melamine-formaldehyde condensation mixture."

The use of asbestos and powdered aluminum oxide as filler materials in brake linings is shown by one or the other of the Achtmeyer, Seabury et al., and Nanfeldt patents and is conceded in appellant's application as follows:

As carrier or filling agent the substances previously used for this purpose have proved useful. These are, for example, asbestos, in its various available forms, such as fabric, flocks or powder; metallic substances, such as aluminum, zinc and the like, also in their usual forms, such as powder, granules or turnings; also insoluble, heat-resisting metallic compounds, such as aluminum oxide, aluminum silicate, chalk, etc. Colouring can be carried out in the usual way, by admixture of pigments of an organic or inorganic nature, for example, sienna brown, red iron oxide, nigrosine, etc.

No showing is made, nor is it claimed on behalf of appellant, that the proportions of the asbestos elements and aluminum oxide elements to each other or to the binding element, as specified in the claim, are critical. The molding temperatures and the pressure of about 200 atmospheres set forth in the claim seemingly are conventional in forming melamine-formaldehyde as a binding. At any rate, they are shown by the Widmer et al. patent, and nothing new is claimed for them here.

The Widmer et al. patent and both British patents disclose the use of melamine-formaldehyde as a binding ingredient in molded articles, but do not show its use in brake linings.

Both the Achtmeyer and the Seabury et al. patents disclose the use in brake lining compositions of phenol-formaldehyde as a binder, and the Nanfeldt Patent 2,273,770 discloses the formation of a brake lining in which cresol-formaldehyde resin is combined with asbestos, aluminum oxide also being a possible ingredient.

So, the cited art falls into two groups and, as stated by the Board:

* * *. The first group shows melamine-formaldehyde compositions containing various fillers, but brake linings are not referred to. The second group discloses brake linings formed of phenol-formaldehyde type resins together with various fillers, but melamine-formaldehyde resins are not mentioned.

It was the view of both the Primary Examiner and the Board of Appeals that the exact issue here involved was presented in the case of *In re Berger* 31 CCPA (Patents) 1234, 143 F.2d 971, 62 USPQ 299, 568 O. G. 389, and that the decision here is governed by the decision there.

It seems clear to us that this is a sound position.

In at least four of the claims there presented melamine-formaldehyde, a form of aminotriazine, was specifically named as a binder ingredient, and at least five of the references cited in the two groups here were cited there.

In the course of this court's decision in that case it was said:

Appellant here contends that none of the references except Nanfeldt and Achtmeyer relate to brake linings; that Nanfeldt's rubber binders are obviously entirely different from those of appellant; that the British patents, while disclosing aminotriazine-aldehyde resins, do not suggest in any way that these resins might be useful as binders in brake linings; that it was not obvious to use aminotriazine-aldehyde resins in this respect because other closely analogous resins, such as the urea-formaldehyde resins, are unsuitable for use as brake linings; and that experimentation was required to discover that the aminotriazine-aldehyde resins are suitable as brake linings. In short, it is the contention of appellant that wherever

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"experimentation is required, invention of a patentable degree is made": * * *.

In answer to appellant's contention that where "experimentation is required, invention of a patentable degree is made," it is sufficient to say that the cases cited do not support the broad statement of appellant. Experimentation *may* produce a result through the exercise of the inventive faculty. This has been held to be true in cases where the art taught that the thing could not be done, or did not suggest that it might be done, or where catalytic action or the use of some material was wholly unpredictable. [Italics quoted.]

* * * * * * *

It is our view that the Board of Appeals committed no error in affirming the action of the Examiner in disallowing the claims, for the reasons stated by it. We conclude that since the properties of melamine-formaldehyde resins were well known and the use of phenolic resins in brake lining manufacture was also known, it would not involve invention to experiment with resins such as those used by appellant and find that they were useful in brake linings. It was old in the art to use asbestos as a filler, and it was also old to extrude or mold brake lining material and treat it as appellant does and as is called for by some of the claims. *Appellant may be right in his contention that the brake lining made by his process is a better one than the cited prior art discloses.* However, we are of opinion, for the reasons stated that the appealed claims do not involve invention. [Italics new here.]

In the instant case it is urged by appellant, as stated by the Board, that:

Appellant contends the Berger decision is not applicable here, the reason assigned being that the court did not have before it any evidence of unsatisfactory character of the prior art resin-bonded linings as here urged, nor any evidence of unexpected new results obtainable with melamine resin-bonded linings. Therefore, it is reasoned, the Berger decision is based on a different record, resulting in conclusions which are not justified in the instant case.

Appellant says the prior art phenolic resins produce a "glassy" surface in friction linings, with undesirable results. A further disadvantage is said to be due to a decrease in friction modulus during use. In the case of appellant's melamine resin, the glassy surface is not formed, and the friction modulus advantageously increases during use. Other unexpected advantages are alleged in connection with use in clutch linings. In support of the foregoing, appellant has submitted an affidavit and documentary exhibits.

[1] In the instant case the affidavit of appellant Staeger together with the documentary exhibits seem to sustain the assertions of fact alleged in the application, but, assuming this to be so, it should be noted that the decision in the *Berger* case, supra, did not rest upon lack of evidence. We expressly stated, in effect, that the appellant there (without reference to lack of evidence other than general assertions in his application) might be right in his contention that the brake lining made by his process was a better one than the cited prior art disclosed, but nevertheless held that the appealed claims did not involve invention, saying, in substance, that the properties of melamine-formaldehyde resin being well known and the use of phenolic resins in brake lining manufacture also being well known invention would not be involved in experimenting with melamine-formaldehyde and finding that it was useful in brake linings.

[2] We are not convinced of error on the part of the Board of Appeals, and its decision is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

THE WHITE COMPANY *v.* VITA-VAR CORPORATION

No. 5663. Decided May 9, 1950

[182 F.2d 217; 86 USPQ 84]

1. TRADE-MARKS—OPPOSITION—EXTENSION OF BUSINESS. Production and sale of casein paint *Held* not to be within the normal and natural extension of the business of manufacturing waterproofing compound.

2. SAME—GOODS OF SAME DESCRIPTIVE PROPERTIES—WATERPROOFING COMPOUND AND CASEIN PAINT.
Held that the waterproofing compound of the opposing party obviously is entirely different in its characteristics and properties from the casein wall paint of the applicant.

3. SAME—OPPOSITION—RIGHT TO EXTEND USE OF MARK.
The decision of the Assistant Commissioner, that the manufacturer of a waterproofing compound, which bears the registered mark "Hydrolite," is entitled to protection from the registration of the same word by another for use on casein paint products, is reversed.

APPEAL from Patent Office. Opposition No. 22,731.

REVERSED.

Karl W. Flocks for The White Company.

S. Michael Ress for Vita-Var Corporation.

GARRETT, *Chief Judge:*

This is an appeal from the decision rendered by the Assistant Commissioner of Patents, acting for the Commissioner, in a trade-mark opposition proceeding, 76 USPQ 267.

The decision appealed from reversed the decision of the Examiner of Interferences who, dismissing the notice of opposition of Vita-Var Corporation, held that The White Company was entitled to have registered the word "Hydrolite" as a trade-mark for "Casein Wall Paint," in the application for registration of which use was asserted "since July 1, 1935."

The opposition of Vita-Var Corporation, a corporation of the State of New Jersey, is predicated upon its ownership, by assignment of a predecessor (The Goheen Corporation of New Jersey) and a subsequent renewal to itself, on October 17, 1942, of a registration of the word "Hydrolite" as a trade-mark for "waterproofing compound for concrete, plaster, and stucco."

The certificate of registration states that the mark had been used continuously by Vita-Var Corporation and its predecessor "since 1900," and there is no serious dispute as to that date.

So, priority of use of "Hydrolite" as a trade-mark is awardable to Vita-Var Corporation, but such trade-mark use always has been limited to "waterproofing compound for concrete, plaster, and stucco."

The Vita-Var Corporation's notice of opposition alleges that it manufactures "paints, varnishes, enamels, lacquers, waterproofing products and kindred products," including "wall paints and casein paints and other products similar to those" as to which The White Company seeks to register "Hydrolite" as a trade-mark, but does not claim registration or use of "Hydrolite" upon any product except the waterproofing material.

In its answer The White Company admitted the use since 1920 by Vita-Var Corporation and its predecessor of the word "Hydrolite" on "concrete waterproofing material which is a material adapted to be mixed with the concrete so that when the concrete 'sets' it is 'waterproofed'" but, stating that it was not informed as to the manufacture by Vita-Var Corporation of other products, denied such manufacture. No proof was thereafter presented that the Vita-Var Corporation manufactured "casein paints" as alleged in its notice of opposition, nor any proof presented that it had ever used, or sought to have registered, "Hydrolite" as a trade-mark for "casein paints" or "casein wall paints."

The Examiner of Interferences in the course of his decision made findings of fact as follows:

The casein wall paint described in the application [of The White Company] is a butter milk product used to decorate the walls and ceilings of rooms in a variety of tints or shades of color. Water constitutes the liquid component of such paint. The product has no waterproofing characteristics and the record does not show that it has any uses other than in interior decorating or that it is sold to other than interior decorators and the usual retail outlets for paints used in interior decoration.

The waterproofing compound manufactured by the opposer [Vita-Var Corporation] has distinctly different physical characteristics and uses, being a chemical in powder form which is designed to be mixed with the normal ingredients of concrete, plaster, or stucco to produce, when the mixture is set, respectively waterproof concrete, waterproof plaster, or waterproof stucco. As the opposer's labels indicate, this compound also may be mixed with cement mortar which mixture may then be applied as a waterproof coating to old concrete. In such cases, it is recommended that the old concrete be mechanically roughened and chipped to produce firm adherence of the coating. The compound, however, is not per se a coating material and since it is neither a coating nor a carrier of pigment it is not a paint. Nor is it a substance which would readily be physically confused with a paint.

The testimony further indicates that the opposer's product is generally sold to industrial users who require it in such large quantities that it is not kept in stock but is manufactured and supplied as needed; and there is nothing in the record to establish that such goods and casein wall paint would be sold through the same trade outlets.

After so finding the facts, the Examiner of Interferences continued:

Upon the record submitted it accordingly appears that the respective goods here involved possess different essential characteristics, are used for dissimilar purposes, and are sold through different channels of trade to different classes of purchasers. The Examiner is persuaded under these circumstances that the purchasers would not have occasion reasonably to assume that the goods have a common personal origin. These goods are therefore deemed to be of different descriptive properties within the meaning of the statute.

It may be said here that the correctness of the findings of fact by the Examiner of Interferences was not challenged by Vita-Var Corporation below, nor is it challenged here.

It appears that before the Examiner of Interferences and before the Assistant Commissioner as before us Vita-Var Corporation argued (1) that the description of goods contained in its registration (that is, "waterproofing compound for concrete, plaster, and stucco") is sufficiently broad to comprehend a coating composition falling within the general classification of paints and painters' materials to which the casein product of The White Company pertains, and (2) that Vita-Var Corporation has the right to extend its use of the word "Hydrolite" as a trade-mark to the field of paints, including casein wall paint, and that it should not be embarrassed by having to meet a mark registered to another whenever it shall choose to extend its business by manufacturing and selling, or otherwise engaging in the casein wall paint business.

In ruling upon the arguments so made the Examiner of Interferences cited decisions of this court in the cases of *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, 30 CCPA (Patents) 1228, 136 F.2d 909, 58 USPQ 474, 556 O. G. 720; and *Goldsmith Bros.* v. *Atlas Supply Co.*, 32 CCPA (Patents) 1001, 148 F.2d 1016, 65 USPQ 378, 577 O. G. 312.

In the first of those decisions this court, speaking through Hatfield, J., held (1) that insecticides differed so widely in composition and use from the composition and use of paints, varnishes, etc. that the goods of the respective parties did not possess the same descriptive properties, and (2) that the manufacture, sale, and use of insecticides by manufacturers of paints, varnishes, etc. was not within the natural and legitimate extension of business of such manufacturers. We there affirmed the decision of the Commissioner of Patents reversing that of the Examiner of Interferences. The mark involved in the contest was the numeral "61."

In the second of the decisions, speaking through Jackson, J., we upheld concurring decisions of the tribunals of the Patent Office granting registration to Atlas Supply Company of the notation "Coldex" for use as a trade-mark on an automobile antifreeze compound over the objection of Goldsmith Bros., a mercantile concern, who were using the registered notation "Goldex" on chemicals, medicines, pharmaceutical preparations and toilet preparations but not on antifreeze preparations which they were selling in a department for automobile accessories separate from its drug department. We there regarded "Coldex" and "Goldex" as being substantially identical, but deemed the goods to be of distinctly different descriptive properties. With respect to the claim of Goldsmith Bros. respecting the right of business extension, we said:

Appellant urges that in the natural or normal extension of its business it should be able to apply its mark to an antifreeze preparation of its own. We do not think that such extension would be either natural or normal, but would be extending into an unrelated field involving different trade channels, manner of packaging and sale, and a different class of purchasers. *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, 30 CCPA (Patents) 1228, 136 F.2d 909, 58 USPQ 474.

[1] The foregoing decisions seem to be apposite here, but the Assistant Commissioner did not follow them as to the material question here involved. He deemed it proper to rely upon decisions made by the United States Circuit Court of Appeals of the Second Circuit in two proceedings in equity (*Yale Electric Corporation* v. *Robertson, United States Commissioner of Patents, et al.*, 26 F.2d 972, C. C. A. 2d, 1928; and *S. C. Johnson & Son, Inc.* v. *Johnson*, 116 F.2d 427, 48 USPQ 82) involving questions of (1) unfair competition, (2) use of names as trade-marks, (3) descriptive properties of the goods involved in the respective cases, and (4), in the first case, the question of the right of Yale Electric Corporation to compel the Commissioner of Patents (Robertson) to register "Yale" as a trade-mark for electric flash-light torches and their batteries.

We quote from the decision of the Assistant Commissioner the following:

In my opinion, the Examiner of Interferences has applied too narrow a test in determining the issue of same descriptive properties in the present case. Even though opposer's compound and applicant's paints may be traded through different channels of trade and may be specifically different in their properties, it still remains true that they are at least as closely related as electric batteries and keys and locks were held to be in the Yale case. (*Yale Electric Corporation* v. *Robertson*, 26 F.2d 972, (C. C. A. 2d, 1928).) The Court of Customs and Patent Appeals in the Goheen case, supra, expressly stated that opposer and its predecessor had used the mark "HYDROLITE" for about forty years and that opposer was also admittedly a manufacturer of paint, although it had not yet applied this trade-mark to a paint product. It seems to me, therefore, that the present case falls within the general principle which was aptly stated by Judge Learned Hand in *S. C. Johnston & Son, Inc.* v. *Johnson*, 116 F.2d 427, 48 USPQ 82, in the following language:

* * * It is true that a merchant who has sold one kind of goods, sometimes finds himself driven to add other "lines" in order to hold or develop his existing market; in such cases he has a legitimate present interest in preserving his identity in the ancillary market, which he cannot do, if others make his name equivocal there.
In my opinion, there is more in the present case "than the desire to post the new market as a possible preserve" which opposer may later choose to exploit. It seems to me that a nationally known paint manufacturer who has been using a well established trade-mark not on a paint but on a product as closely related as a waterproofing compound in powder form should be held entitled to protection and registration of the word for all articles coming within this general class even though one material may, for purposes of Patent Office classification, be classified as construction material, while the other falls within the category of paints or paint materials.

The decision in the Goheen case referred to in the foregoing quotation will be found in 29 CCPA (Patents) 926, 126 F.2d 481, 53 USPQ 52, 541 O. G. 241. The only part of it deemed to be of any importance here is the holding that "Hydrolite" is not descriptive of the waterproofing compound on which Vita-Var Corporation, successor of Goheen Corporation, then used it, as now it uses it, as a trade-mark, wherefore the decision of the Commissioner of Patents upholding the petition of The White Company, appellee there, to cancel the mark on the ground of descriptiveness was reversed.

We turn our attention to the specific phraseology of the decision of the Assistant Commissioner reading: "In my opinion, the Examiner of Interferences has applied too narrow a test in determining the issue of same descriptive properties in the present case. Even though opposer's compound and applicant's paints may be traded through different channels of trade and may be specifically different in their properties, it still remains true that they are at least as closely related as electric batteries and keys and locks were held to be in the Yale case [supra]."

The Assistant Commissioner evidently overlooked the fact that the United States Circuit Court of Appeals instead of holding that electric flash-light torches and their batteries were of the same descriptive properties as keys and locks, specifically held, in connection with its determination of the question of registration, that the goods of the respective parties were not of the same descriptive properties in the colloquial sense.

To understand fully the decision of the United States Circuit Court of Appeals, it will be found helpful to study the decision of the United States District Court of Connecticut (*Yale Electric Corporation* v. *Robertson, United States Commissioner of Patents, et al.*, 21 F.2d 467) from which decision the appeal to the United States Circuit Court of Appeals of the Second Circuit was taken.

From the respective decisions it is apparent that the United States District Court and the United States Circuit Court of Appeals treated the case as one of unfair competition based upon use of "Yale," and held that the Yale Electric Corporation should not be permitted use of the mark except in the limited manner indicated in the decision of the United States Circuit Court of Appeals. Having so held, the United States Circuit Court of Appeals said:

There remains the question of registration, the goods not being of the "same descriptive properties" in the colloquial sense. It would plainly be a fatuity to decree the registration of a mark whose use another could at once prevent.

So, logically, the United States Circuit Court of Appeals sustained the decision of the United States District Court refusing to direct the Commissioner of Patents to register the mark.

The case of *S. C. Johnson & Son, Inc.* v. *Johnson*, supra, involved only a question of unfair competition based upon use of the name Johnson. No question of "descriptive properties" was there passed upon, nor was any question of the right to register a mark involved. We fail to discern the relevancy of that decision to the issue isvolved in the instant case.

The here pertinent phraseology of the Trade-Mark Registration Act of February 20, 1905, is embraced in Sec. 5, U. S. C., title 15, Sec. 85, reading:

* * * no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark * * * *Provided*, That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties * * * shall not be registered: * * *

[2] The waterproofing compound upon which Vita-Var Corporation uses its registered mark "Hydrolite" obviously is entirely different in its characteristics and properties from the casein wall paint upon which The White Company is using the same mark. This appears from the unchallenged findings of fact made by the Examiner of Interferences.

Ours is only a statutory jurisdiction. We may not concern ourselves with the question of unfair competition in this proceeding.

[3] As a matter of law, we feel constrained to hold that the decision of the Assistant Commissioner must be reversed. It is so ordered.

REVERSED.

O'CONNELL, *J.*, dissents.

U. S. Court of Customs and Patent Appeals

IN RE WASHBURN

No. 5684. Decided May 9, 1950

[182 F.2d 202; 86 USPQ 108]

1. PATENTABILITY—PROCESS—FUNCTION OF APPARATUS.
Where the claimed method is dependent on the claimed apparatus and incapable of being performed by hand, where the claimed apparatus will inherently carry out the method steps, and where there is not disclosed any apparatus capable of carrying out the process and differing substantially from that described in the application, *Held* that the method claim should be rejected.

2. SAME—SAME—FUNCTION OF APPARATUS HAVING SAME CHARACTERISTIC OPERATION.
A process which can be described only by describing the characteristic functions of a machine *Held* not made patentable by showing that it may be carried out by another machine having the same characteristic function.

3. SAME—SAME—METHOD MONOPOLY NOT PERMITTED BY SINGLE APPARATUS DISCLOSURE.
Where, by the teaching of a single apparatus the applicant asks, not only for the monopoly to exclude others from making, using, or selling his apparatus, but also the broad monopoly of method claims which would exclude the public from accomplishing the method in any way, without teaching any means for practicing the method other than the specific apparatus claimed, *Held* that such practice is not permitted by the statute.

4. SAME—PARTICULAR SUBJECT MATTER—MASS SPECTROMETRY ANALYZING METHOD.
Claims to a method for analyzing a gaseous mixture by mass spectrometry *Held* unpatentable as directed to the mere function of the disclosed apparatus or equivalent devices.

APPEAL from the Patent Office. Serial No. 513,528.

AFFIRMED.

James B. Christie (*Richard L. Underwood* of counsel) for Washburn.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office sustaining that of the Primary Examiner rejecting method claims 7 and 8 of an application for a patent for the analysis of mixtures with a mass spectrometer. Four apparatus claims were allowed.

The claims in issue read as follows:

7. In a process for analyzing a gaseous mixture by mass spectrometry involving the production of ions from gas molecules and the projection of the ions through an aperture by impressing an electrical potential on the ions, the improvement which comprises subjecting the ions to an electrical potential having a component parallel to the axis of the aperture and a component transverse to the axis of the aperture.

8. In a process for analyzing a gaseous mixture by mass spectrometry involving the production of ions from gas molecules in an ionization region and the projection of the ions from the region through an aperture by impressing an electrical potential on the ions, the improvement which comprises subjecting the ions, prior to their passage through the aperture, to a voltage which has a component in a direction transverse to the axis of the aperture.

Claim 3 is representative of the allowed apparatus claims and reads as follows:

3. In a mass spectrometer having an ionization chamber provided with a first electrode having an ion outlet aperture, and means for impressing a potential across at least a portion of the chamber to the aperture for propelling ions from the chamber through the aperture, the combination which comprises a plurality of electrodes mounted in the chamber, opposite the aperture, means for impressing different potentials between the respective electrodes of the plurality and the first electrode, means for introducing molecules into the space between the first electrode and the plurality of electrodes, and means for directing an electron beam into said space.

All of the allowed claims define an apparatus which includes an ionization chamber with a first electrode having an ion outlet aperture, a plurality of electrodes mounted in the chamber opposite the aperture, and means for impressing different potentials between the respective electrodes of the plurality and the first electrode.

In mass spectrometry, gas molecules are converted into ions by bombarding the molecules with a beam of electrons in an ionization chamber. As they are formed, the ions are projected through an aperture by an electrical potential established between the apertured electrode and a "pusher" electrode disposed elsewhere in the chamber. After passing through the aperture, the accelerated beam of ions passes through a transverse magnetic field which deflects the ions into curved and diverging beams of ions of different specific mass, forming thereby a spectrum of ions of different weights. By varying the accelerating potential or the magnetic field, the radii of curvature of the ion beams may be changed, permitting each beam to be focused successively on an outlet slit through which they pass on to a collector electrode. There the ions give up their electrical charges, the amount of charge in each case being the measure of the abundance of each kind of ion.

Appellant's improvement is concerned with that phase of mass spectrometry involving the establishment of the electrical potential to propel the ions out of the ionization chamber. Specifically, his improvement resides in subjecting the ions to an electrical potential which includes a component transverse to the axis of travel of the ion beam through the outlet slit. Appellant provides a potential which includes a component transverse as well as parallel to the axis of ion travel. This is said to enable a sharper focusing of the ion beams on the collector plate, improving the sensitivity of the operation, and resulting in more accurate analysis.

Appellant's specification contains a description of an apparatus for accomplishing his improvement. The structure consists of an ionization chamber into one end of which gas molecules enter through a conduit disposed between two "pusher" electrodes. At the other end of the ionization chamber portion of the structure are two parallel plates or electrodes transversely disposed and provided with a central opening, termed outlet slits. Beginning just past the end of the ionization chamber, the structure consists of a semicircularly curved tube, at the opposite end of which is a slit opening upon the electrode collector plate. An electron beam passes through the ionization chamber, ionizing the gas molecules. The ions are propelled through the outlet slits by means of an electrical potential impressed between the first plate or electrode and the "pusher" electrodes. The ions are further accelerated by an additional potential impressed upon the first plate and the second parallel transversely disposed plate. Before appellant's improvement, but one "pusher" electrode was used. In his apparatus, one potential difference is impressed between one "pusher" electrode and the first of the beforementioned plates, and a different potential difference is impressed between the other "pusher" electrode and the first electrode plate. The effect of using the two "pusher" electrodes with the different potentials is to subject the ions to a voltage having a component transverse to the axis of the slits as well as a component parallel to that axis. Appellant characterizes this effect as a "crossed field."

The allowed apparatus claims embrace the apparatus set forth in appellant's specification.

The involved method claims were rejected by the Examiner on the ground that they recite merely the inherent functions of appellant's apparatus. The Examiner stated that the improvement recited in

the method claims consists of the step of subjecting the ions to an electrical potential having a component transverse to the axis of the first electrode, and held that the step is automatically performed when the apparatus is functioning normally. The Board agreed that the step of subjecting the ions to a voltage having a transverse component is "the inherent function or result of the means for impressing different potentials between the pusher electrodes recited in the apparatus claims."

Appellant contends that the method defined in the appealed claims employing the "crossed field" is independent of the apparatus employed for producing it, and consequently that the appealed claims should be allowed. After the Board's decision was rendered, the appellant filed a petition requesting reconsideration. In his brief in support of the petition he alleged that prior to filing the involved application he had developed at least two types of apparatus for carrying out the method defined by the appealed claims. In support of his petition, appellant filed an affidavit of Sibyl M. Rock, a mathematician employed by the Consolidated Engineering Corporation as a technical consultant and assigned to research and development of mass spectrometers. Affiant stated that in October 1941 he prepared a report on experimental work then in progress in mass spectrometry, and called attention to three pages of his report, appended to his affidavit, "which show that at least as early as October 8, 1941, Dr. Washburn, the applicant * * *, had conceived of at least two means for producing a transverse potential component in an ionization chamber to increase the sharpness of focus and the sensitivity of mass spectrometers." Mr. Rock stated that appellant at that time disclosed to him that the additional means for accomplishing the transverse potential component in the ionization chamber (other than that shown in the application) consisted of "employing additional electrodes on each side of the exit slit between the pusher electrode and the exit slit in the ionization chamber," as illustrated by an Exhibit B, which is reproduced in the record and in appellant's brief on appeal. The Board considered appellant's petition and the affidavit of Mr. Rock, but did not alter its decision.

Appellant insists that it would be possible to perform the claimed method by means of apparatus other than that disclosed in his application, and he has incorporated into his brief the Exhibit B appearing of record as an appendix to Mr. Rock's affidavit. In that exhibit, a structure is depicted wherein a single "pusher" electrode is placed coordinate to the axis of the electrode slits of his original apparatus. A pair of "focusing" electrodes are disposed at opposite sides of the ionization chamber in an axis transverse to the longitudinal axis defined by the "pusher" electrode and the opening slits. By impressing different voltages on the "pusher" electrode and the first electrode and impressing different voltages on the "focusing" electrodes, a "potential gradient" parallel and a "potential gradient" transverse to the longitudinal axis are said to be established, whereby the method defined in the appealed claims can be performed. Appellant contends that the Exhibit B apparatus is not the equivalent of the apparatus covered by the allowed claims.

The step of subjecting the ions to a voltage which has a transverse component is the inherent function or result of the means for impressing different potentials between the "pusher" electrodes and the first electrode recited in the apparatus claims. Appellant's contention that the same result could be obtained by using the alternative apparatus disclosed in Exhibit B appended to Mr. Rock's affidavit, does not warrant his conclusion that therefore the method claims should be allowed. The alternative apparatus is, as the Board held, no more than the obvious equivalent of the apparatus disclosed in appellant's specification relating to the apparatus claims which have been allowed.

The court has repeatedly held that process or method claims which merely recite the function of an apparatus are not allowable, *In re Ashbaugh*, 36 CCPA (Patents) 902, 173 F.2d 273, 81 USPQ 129, 622 O. G. 630; *In re Nichols*, 36 CCPA (Patents) 759, 171 F.2d 300, 80 USPQ 143, 620 O. G. 347; *In re Wadman*, 25 CCPA (Patents) 936, 94 F.2d 993, 36 USPQ 542, 492 O. G. 482; *In re Ernst et al.*, 21 CCPA (Patents) 1235, 71 F.2d 169, 22 USPQ 28, 449 O. G. 507, and cases cited. [1] Where the claimed method is dependent on the claimed apparatus and incapable of being performed by hand, where the claimed apparatus will inherently carry out the steps set forth in the appealed claims, and where there is not disclosed any apparatus capable of carrying out the process and differing substantially from that described in the application, the method claim should be rejected. *In re Middleton*, 35 CCPA (Patents) 1166, 167 F.2d 1012, 77 USPQ 615, 613 O. G. 1090. Pertinently, the court there said (p. 1167):

> It is evident that the processes defined by [the claims] are intimately related to the particular apparatus disclosed. That apparatus will inherently carry out the steps set forth in the appealed claims, and the application does not disclose any other use to which the apparatus may be put. Conversely, the application does not suggest any way in which the steps claimed can be carried out except by the use of the apparatus disclosed.

[2] Thus, a process which cannot be described otherwise than by describing the characteristic functions of a machine is not made patentable by showing that it may be carried out by another machine which has the same characteristic function respecting the result to be attained, *Black-Clawson Co.* v. *Centrifugal Engineering Corp.*, 83 F.2d 116, 29 USPQ 253 (CCA 6th 1936), cert. den., 299 U. S. 554.

Appellant's method is obviously incapable of being performed by hand. The apparatus he suggested as an alternate means to that disclosed in his specification for carrying out the method defined by the appealed claims is, as we have seen, the functional equivalent of the claimed apparatus, embodying as it does the same characteristic functions of that apparatus. As said by the court in *In re Nichols*, supra (at p. 762), "It follows that, where the record indicates a single means of carrying out the process and other independent means are not obvious, a process claim which merely states the function or effect of a machine must be held to be unpatentable under the long established rule of this and other courts." See also *Swan Carburetor Co.* v. *Chrysler Corporation*, 130 F.2d 391, 54 USPQ 154 (CCA 6th 1942), cert. den., 317 U. S. 692. Here, as in *In re Ernst et al.*, supra (at p. 1239)

> It seems to us that appellants' so-called process is inseparably connected with the apparatus described by them, and for which they have been allowed claims. Their invention was not complete without apparatus with which to apply the process, and as the apparatus itself was inventive, and no other means are shown for applying the process, we do not see how it could be said that the process claims and the apparatus claims are both allowable.

[3] Appellant's application contained a description of the apparatus upon which he was allowed apparatus claims. His specification also describes how that apparatus may be used. Appellant seeks additionally the allowance of method claims, but his application contains no description of how that method may be used apart from the apparatus upon which he has been allowed apparatus claims. R. S. 4888, 35 U. S. C. 33, requires that before a patent may be granted to an applicant for an invention, he must not only make application, but he must also file in the Patent Office a written description of the invention and the manner of using it in such full and exact terms as to enable any person skilled in the art to use that invention. The appellant filed a written description of the method claimed. He did not file a written description of any apparatus or means by which his method could be used other than his description of the apparatus covering which he has been allowed apparatus claims. From the record, no conclusion is possible other than that the method claimed is merely the function of that apparatus. Appellant asks for the grant of the monopoly of method claims broadly drawn without offering as his required consideration to the public the teaching of how that method may practically be employed other than the description of an apparatus whose operative functions embody the claimed method and covering which he has been allowed apparatus claims. For the teaching of a single apparatus, the appellant is asking not only for the monopoly to exclude others from making, using, or selling his apparatus, but also the broad monopoly of method claims which would exclude the public from accomplishing the method defined in any way without teaching any possible means of practicing the method other than the specific apparatus for which he is granted coverage aliunde the method claims. This the statute does not permit. Furthermore, it cannot be said that appellant has invented a new "art" within the meaning of R. S. 4886, 35 U. S. C. 31, if he merely recites the functions of an apparatus on which he is separately allowed patent claims. As said by the circuit court of appeals in *American Lava Co.* v. *Steward*, 155 Fed. 731, 738 (CCA 6th 1907) (affirmed, 215 U. S. 161):

> No doubt it is competent, when the circumstances permit it, for an inventor in describing a machine or apparatus which he has devised, to make a claim for a process which his patented device is capable of carrying out. But to entitle him to do this *the process must be one capable of being carred out by other means than by the operation of his patented machine, and unless such other means are known or within the reach of ordinary skill and judgment, the patentee is bound to point them out;* for, unless the public are informed by what other means the process can be carried on, the process is to them nothing else than the operation of the machine—in other words, the exercise of its functions. [Emphasis supplied.]

The appellant failed to point out in his specification means by which the claimed method may be carried out other than the operation of the apparatus for which he has been granted apparatus claims. The method is incapable of being carried out by hand, and it does not appear that other means for using the method are known or within the reach of those skilled in the art. The alternate means proposed by the appellant comprise an apparatus which embodies the same characteristic functions of that described in the application for which claims have been granted, and is considered to be a mere equivalent of that apparatus. Under the authorities, the appellant may not be granted method claims. We have given careful consideration to his brief and argument, but cannot hold that the Board erred in rejecting the method claims.

[4] The decision appealed from is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE JABOUR

No. 5677. Decided May 9, 1950

[182 F.2d 213; 86 USPQ 98]

1. PATENTABILITY—DESIGNS—UTILITY IMMATERIAL.
   Since the patentability of a design may not be predicated upon utility, *Held* that it is immaterial that applicant's vessel "provides a bottom on which the vessel can stand" or that the design of the cylinder bottom does not "reduce its ability to withstand high internal pressures."
2. SAME—SAME—CRITERION OF INVENTION.
   Held that the determination of the fourth element of a patentable design, i. e., invention, resides as a subjective standard in the mind of the judge, considered as an average observer.
3. SAME—SAME—COMBINING REFERENCES.
   Held that prior art references combined to anticipate a design need not come from the same art, since the Patent Office may combine proper references to old forms and shapes, wherever found, to show a design lacking in novelty or devoid of invention.
4. SAME—PARTICULAR SUBJECT MATTER—DESIGN FOR PRESSURE FLUID CONTAINER.
   A design for a pressure fluid medium container *Held* to lack invention over the prior art.

APPEAL from Patent Office. Serial No. D-123,883.

AFFIRMED.

Darby & Darby (*Louis D. Fletcher* of counsel) for Jabour.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

W. W. Cochran on the brief as former Solicitor for Patent Office.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner in finally rejecting for lack of invention over the references the single claim of appellant's design application for a patent for a new and ornamental design for a "pressure fluid medium container."

The references relied upon are: Grant, Jr., 2,367,674, Jan. 23, 1945; United Catalog Publishers,

Inc., "Radio Master," p. E–33 (Received in Patent Office Feb. 28, 1944).

Appellant's design comprises an elongated cylinder having a short neck at one end and a closed bottom at the other, and having at the bottom a series of circumferentially spaced protuberances radiating from a central substantially circular area.

The patent to Grant, Jr., shows a cylindrical tank with ends of spherical form, and having the same basic shape as the appellant's container. The reference publication shows a microphone with the upper hemispherical surface embellished with spaced protuberances.

It was the Examiner's opinion that the claim was unpatentable over the patent to Grant, Jr., disclosing an elongated cylinder with a curved closed bottom, in view of the publication, disclosing a cylindrical housing for a microphone with circumferentially spaced protuberances radiating from a central area; and, that the use of circumferentially spaced protuberances on a like surface of a different article would not be inventive in an ornamental design sense. The Board agreed with the Examiner's rejection.

Appellant describes his container by stating that vessels of that type are used to store gases, such as carbon dioxide, under high pressure as liquids; that, while such vessels have been used commercially for decades, there has been no attempt to improve their ornamental appearance; and, since they are commonly stored on their side, that an improvement of considerable utility would result if the vessels could be stood on end.

Appellant states that with those considerations in mind he developed the design in issue. He contends that it solves three major problems: (1) a configuration for the bottom of the cylinder which does not reduce its ability to withstand high internal pressure; (2) which enables the vessel to stand on end; and (3) which enhances greatly the ornamental appearance not only of the bottom of the container but the container's overall appearance as well.

In design patent cases, of course, the question of utility is not involved, *Gorham* v. *White*, 14 Wall. 511; *In re Faustmann*, 33 CCPA (Patents) 1065, 155 F.2d 388, 69 USPQ 541, 589 O. G. 493. The mere fact that the design sought to be patented may involve some mechanical or utilitarian function, however, will not render it unpatentable, *In re La Montagne*, 19 CCPA (Patents) 880, 55 F.2d 486, 12 USPQ 195, 418 O. G. 271; *In re Barber*, 23 CCPA (Patents) 834, 81 F.2d 231, 28 USPQ 187, 465 O. G. 724, but the patentability of a design may not be predicated on utility, *In re Zonenstein*, 36 CCPA (Patents) 845, 172 F.2d 599, 80 USPQ 522, 621 O. G. 639. [1] It is, therefore, immaterial that applicant's vessel "provides a bottom on which the vessel can stand," or that the design of the cylinder bottom does not "reduce its ability to withstand high internal pressures." The only issue before us is whether appellant has produced through the exercise of the inventive faculty a new, original, and ornamental design for an article of manufacture, R. S. 4929, 35 U. S. C. 73.

[2] A design to be patentable must not only be new, original, and ornamental, but it must result from the exercise of the inventive faculty as well. The fourth element, exercise of the inventive faculty, is the ultimate determinant of patentability: it is said to defy definition, and its determination resides as a subjective standard in the mind of the judge considered as an "average observer." *In re Johnson, Jr.*, 36 CCPA (Patents) 1175, 175 F.2d 791, 82 USPQ 199, 626 O. G. 600; *In re Park*, 37 CCPA (Patents) —, 181 F.2d 255, 85 USPQ 278, 636 O. G. 395.

We do not think that appellant's design rises to the dignity of invention, and specifically we agree with the Board that the inventive faculty was not called into operation in placing circumferentially spaced protuberances on one end of appellant's cylindrical vessel where the ornamental effect produced is not obviously different than that suggested by the reference publication. Appellant contends that prior art references combined by the Patent Office tribunals against his claim must come from the same art, citing *In re Faustmann*, supra. [3] That case does not support such a proposition. The designer is concerned with shape and appearance, and he may call upon old forms and configurations wherever found in the public domain to effect a usable design suitable for his purpose. Similarly, the Patent Office tribunals may combine proper references to such old forms and shapes, wherever found, to illustrate the fact that an applicant's design may be lacking in novelty, or that the combination of old forms did not require the exercise of the inventive faculty. See Simonds on Design Patents, 1874, p. 212; Symons, Patents for Designs, 1914, Section 30; Shoemaker, Patents for Designs, 1929, Section 34, and cases cited.

[4] The decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,935,857, I. Nachumsohn, Electric cream-whipper and drink mixer, filed Aug. 3, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1107, *Nazon Utilities Corp. et al.* v. *Chicago Electric Mfg. Co.*

1,949,174, J. A. Montgomery, Coal washing machine; 1,952,277, same, Coal washer; 2,104,090, same, Jig, filed July 24, 1950, D. C., N. D. Ala. (Birmingham), Doc. 6552, *J. A. Montgomery* v. *Southern Car & Mfg. Co.*

1,952,277. (See 1,949,174.)

1,994,323. (See Des. 113,514.)

2,069,893. (See Re. 21,053.)

2,088,300, C. C. Magee, Parking device; 2,118,318, same, Coin controlled parking meter; 2,137,111, Hale & Thuesen, Coin controlled time measuring mechanism; 2,262,783, C. A. Toce et al., Vehicle parking meter; 2,190,555, same, Parking meter expansion clamp; 2,328,043, Woodruff & Toce, Parking meter; 2,162,191, W. N. Woodruff et al., Meter, filed Dec. 22, 1948, D. C., N. D. Ill. (Chicago), Doc. 48c1899, *Vehicular Parking, Ltd.* v. *Duncan Meter Corp.*

2,097,838, S. Karrer, Safety device for gas burners; 2,156,235, Betz & Karrer, same; 2,372,537, C. Wantz, Combined thermoelectric safety shutoff device and cock, filed Sept. 1, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12238–C, *Milwaukee Gas Specialty Co. et al.* v. *General Water Heater Corp.*

2,104,090. (See 1,949,174.) 2,118,318. (See 2,088,300.)
2,137,111. (See 2,088,300.) 2,156,235. (See 2,097,838.)
2,162,191. (See 2,088,300.) 2,190,555. (See 2,088,300.)
2,223,450. (See Des. 113,514.)
2,262,783. (See 2,088,300.)
2,312,555. (See Des. 113,514.)
2,328,043. (See 2,088,300.)
2,345,264. (See Des. 113,514.)
2,372,537. (See 2,097,838.)
2,482,288. (See Re. 23,203.)
2,495,546. (See Re. 23,203.)

2,519,883, A. O. Bustanoby, Magnetic figure toy; 2,519,884, Des. 159,707, J. V. Zimmerman, Toy dog, filed Sept. 6, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1249, *Jay V. Zimmerman Co.* v. *Walgreen Co.* Same, filed Sept. 19, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1310, *J. V. Zimmerman Co.* v. *E. J. Kahn & Co.*

2,519,884. (See 2,519,883.)

Re. 21,053 (of 2,069,893), A. T. Matthews, Awning, filed July 24, 1950, D. C., N. D. Ala. (Birmingham), Doc. 710, *National Ventilated Awning Co.* v. *Phoenix Mfg. Co.*

Re. 23,203 (of 2,482,288), S. Posen, Wearable electronic hearing aid having the amplifier and the batteries contained in a common casing; 2,495,546, Posen & Hanson, Hearing aid chassis, filed Sept. 6, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1250, *Beltone Hearing Aid Co.* v. *American Sound Products, Inc.*

Des. 113,512. (See Des. 113,514.)

Des. 113,513. (See Des. 113,514.)

Des. 113,514, A. Iannelli, Coffee maker bowl; Des. 113,512, same, Coffee maker; Des. 113,513, same, Coffee pot; 1,994,323, I. H. Peirce, Coffee extracting device; 2,223,450, 2,312,555, 2,345,264, I. Jepson, Coffee maker, filed Sept. 7, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1255, *Sunbeam Corp.* v. *Knapp-Monarch Co. et al.*

Des. 159,707. (See 2,519,883.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 362,714, T. M. 362,715, T. M. 362,716, T. M. 362,717, T. M. 369,297, T. M. 369,298, Society of Chemical Industry in Basle, Female sex hormone preparation; T. M. 432,459, Ciba, Ltd., Synthetically prepared oestrogen, filed Sept. 19, 1950, D. C., E. D. Pa. (Philadelphia), Doc. 113484, *Ciba Pharmaceutical Products, Inc.* v. *Cabot Pharmaceutical Co.*

T. M. 362,715. (See T. M. 362,714.)
T. M. 362,716. (See T. M. 362,714.)
T. M. 362,717. (See T. M. 362,714.)
T. M. 369,297. (See T. M. 362,714.)
T. M. 369,298. (See T. M. 362,714.)
T. M. 432,459. (See T. M. 362,714.)

NOTICES

Correction

All references to Patent No. 2,526,681, to Livingston Middleditch for Optical Rectifier, appearing in the OFFICIAL GAZETTE of October 24, 1950, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(C. A. Pa.) Dreymann Patent No. 2,031,036, for a composition of matter and method of its production, *Held* valid. *Sutherland Paper Co.* v. *Grant Paper Box Co.*, 183 F.2d 926; 86 USPQ 337.

(D. C. Ohio) Hunt Patent No. 2,300,157, for a feather-picking apparatus for fowls and the like. Claims 2, 3, 7, 10, 12, 14, 17, and 19 *Held* valid and infringed. *Mueller et al.* v. *Wolfinger et al.*, 91 F. Supp. 971; 86 USPQ 37.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,418,407, R. R. Hays, Control means for helicopters, decided Oct. 11, 1950, claims 1, 4, and 10.

Pat. 2,432,061, I. Chesler, Writing instrument, decided Oct. 11, 1950, claims 4, 5, 9, 10, 25, 26, and 27.

Pat. 2,452,157, R. W. Sears, Electron discharge apparatus, decided July 24, 1950, claims 1 and 2.

Pat. 2,467,325, W. P. Mason, Electrooptical light valve of ammonium dihydrogen phosphate crystal, decided Sept. 18, 1950, claims 1 and 13.

Pat. 2,468,243, P. L. Spencer, Electron discharge device, decided Oct. 5, 1950, claims 7, 8, 11, and 12.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,469,022. COMPUTER FOR DETERMINING THE CORRECT PROPORTIONS OF INGREDIENTS FOR A SELECTED MIXTURE. Patented May 3, 1949. Instrument for computing amount of any substance (e. g., water cement ratio) to be added to or deducted from one or more ingredients. A plate has a scale marked off in gallons. A graph on plate has a slidable arm and cursor for reading total amount of liquid required. Arm is attached to another graph which has a slidable arm and cursor to determine amount of substance indicated by setting first cursor and altered by setting second cursor. A third graph carries a pointer which indicates the amount of liquid required. (Co-owner) R. W. Walker, 26 Munro Road, Glasgow, W.3, Scotland. Groups 32—71; 35—31—65. Reg. No. 38,806.

Pat. 2,461,103. LABEL HOLDER. Patented Feb. 8, 1949. Device holds upper edge of card, label, or other small material on typewriter platen in position for typing. A removable clip of plastic, metal, or other resilient material partially encircles rear of typewriter platen. Clip has a forwardly extending lip to engage upper edge of paper. Adjacent the lip the clip is cut out to form a lever operable by finger tip pressure. When lever is released, lip bears upon paper, holding it firmly on platen. (Owner) Lewis A. Amis, 901½ Elm St., Dallas, Tex. Group 35—72. Reg. No. 38,807.

Pat. 2,514,515. SUPPLEMENTAL LINING. Patented July 11, 1950. Lining is provided with a slide fastener for separable attachment to adapt any coat to colder weather. Consists of two strips carrying complementary slide fastener elements, one strip being stitched to edge of supplemental lining, the other sewn to lining of coat. The outer strip has a flap which provides directional markers for sewing into coat and covers fastener. One fastener may have several outer strips for sewing into different coats. (Owner) Eloise T. Roe. Correspondence to Edward G. Roe, 25 West 43rd St., New York 18, N. Y. Groups 23—11—29—31—62; 39—99. Reg. No. 38,808.

Pat. 2,516,020. METHOD OF BRACING TUBES INTERNALLY FOR SPECIFIC USE IN CONSTRUCTING ALUMINUM OR MAGNESIUM LADDERS. Patented July 18, 1950. Tubular structural units for use in forming ladders, flag poles, gang planks, scaffolds, etc. are strengthened by metal triangles fitted within them. Metal strips are bent to form equilateral triangles of different sizes, the apices of which are flattened to form binding surfaces. Larger triangle is heated and a smaller triangle placed within, so that the apices of smaller are midway the sides of larger triangle. As larger triangle cools, it contracts and causes a shrink fit. Tube is heated and the joined triangles inserted within. Tube cools and contracts, causing a shrink fit between tube and larger triangle. (Owner) Ancil O. Reed, Box 1022, Indianapolis, Ind. Groups 33—81; 34—41—42. Reg. No. 38,809.

Pat. 2,463,410. HEADREST FOR CREEPERS. Patented Mar. 1, 1949. Adjustable headrest is attached to board on casters forming a support on which user may recline when creeping under an automobile. Arms carrying headrest are pivoted to brackets at sides of support. Holes and slots in overlying parts of arms and brackets have bolt extending therethrough manually adjustable to hold headrest in desired position. (Owner) Mrs. George E. Morris, 414 Grand St., Winona, Minn. Groups 33—52; 38—11. Reg. No. 38,810.

Pat. 2,423,288. BRAIDING MACHINE. Patented July 1, 1947. Machine produces hollow sleeving or tubing, braided-strand covering for wire, etc. In operation, strands from each bobbin are drawn together over the center of a rotatable turret. The strands are attached to a leader passing over a take-up wheel to tension and regulate the angle at which the strands are laid. This governs the spacing of the strands and determines whether a tight or loose weave is obtained. As the turret is rotated, the bobbins are moved in one direction and tend to wrap the strands around a point which lies axially of the turret. An equal number of strands carried by a ring are moved in an opposite direction by a cam arrangement which produces an over and under movement so that each strand serves to lock the adjacent strand in place. (Co-owner) A. B. Bellg, 747 Spitzer Building, Toledo, Ohio. Group 35—52. Reg. No. 38,811.

Pat. 2,423,289. WIRE WRAPPING MACHINE. Patented July 1, 1947. Several layers of insulating material may be simultaneously wrapped around a wire rapidly in a single operation. Basically, the machine includes a rotatable turret supported by a stationary column. The turret comprises a series of concentrically arranged and independently rotating rings each of which has a hub supported by the ring below. The rings are operated by gears meshing with pinions mounted on the column. Strand-carrying bobbins are mounted on each ring. In operation, wire to be covered is fed through the column in an upward direction. (Co-owner) A. B. Bellg, 747 Spitzer Building, Toledo, Ohio. Groups 35—52; 36—31. Reg. No. 38,812.

Pat. 2,517,245. GOLF CLUB. Patented Aug. 1, 1950. Driver type golf club has detachable top plate so the weight and balance of golf club heads may be varied. Head has a series of vertical bores to detachably receive threaded weights. The weight and balance of the club is varied by adding or removing one or more weights. (Owner) Julian M. Scott, 13785 Biscayne Blvd., Miami 38, Fla. Group 39—49. Reg. No. 38,813.

Pat. 2,513,892. WRIST WATCH BAND. Patented July 4, 1950. Band adjustable to various types of wrist watches prevents corrosion on back of watch. A pair of C-shaped flexible members have outwardly turned loops to engage pintles on watch. The loops terminate in tongues to slip in sleeve of an intermediate coupling to underlie back of watch and prevent watch touching user's wrist. (Owner) Benjamin D. Pile, 50—20 213th St., Bayside, N. Y. Groups 33—73; 34—51—61—62; 39—71. Reg. No. 38,814.

Pat. 2,469,952. PENCIL POINT SHARPENER. Patented May 10, 1949. Sharpener for the point of a mechanical pencil consists of an abrasive plug fitted in a reversible sleeve which holds the eraser. The plug (positioned under the eraser) is provided with an annular groove which is cone-shaped in cross section. A disk provided with openings is rotatably secured to the plug. In use, the sleeve is removed from the barrel, the plug inserted through one of the openings, and the disk rotated so that the abrasive plug may perform its sharpening function. (Owner) Antonio Cornish-Besa, Casilla 9022, Santiago, Chile, S. A. Group 39—51—52. Reg. No. 38,815.

Pat. 2,479,561. COAL ACTIVATOR. Patented Aug. 23, 1949. The burning and heat-giving qualities of low grade coal may be enhanced by the addition of an activator containing bituminous coal dust, anthracite culm, mineral oil, crude oil, sawdust, pitch, and starch. The activator causes complete combustion and minimizes the tendency toward clinkering. Fuel containing the activator may be made up in briquets, or the activator may be added to the coal prior to use or in any way desired. Test data available. (Owner) Fred Elkan, 70—14 136th St., Kew Gardens Hills, Flushing Station "C", N. Y. Groups 28—89; 29—91. Reg. No. 38,816.

Pat. 2,417,015. ELECTRICAL TELEMETERING SYSTEM. Patented Mar. 4, 1947. This patent is directed to the duplication of a desired rotary movement at a distance. Standard motors with slight changes in connections are used instead of motors of special construction. The construction is such that the torque tending to maintain the load at the receiving station is substantial and remains constant. Three "Thyratron" tubes are used in its operation. The telemeter operates over 360° with a minimum of hunting in any position. A potentiometer system in combination with two wipers and fixed resistances for securing such 360° operation is covered particularly in the patent. (Owner) O. W. Storey, Trustee for the Partnership of O. W. Storey & Associates, 180 North Wabash Ave., Chicago 1, Ill. Group 36—62. Reg. No. 38,817.

Pat. 2,461,923. APPARATUS FOR MEASURING HIGH RESISTANCE. Patented Feb. 15, 1949. Instrument for accurately and quickly measuring high resistances up to 1,000,000 megohms. It may also be used to measure a high resistance that itself is a source of a potential such as the glass electrode of a pH cell. The instrument employs a high vacuum triode of the indirectly heated cathode type in conjunction with four batteries together with a calibrated grid resistor of high resistance and the necessary voltmeters and ammeter. In operation it is only necessary to take two voltage readings after the instrument is properly adjusted. (Owner) O. W. Storey, Trustee for the Partnership of O. W. Storey & Associates, 180 North Wabash Ave., Chicago 1, Ill. Group 36—19. Reg. No. 38,818.

Pat. 2,484,736. APPARATUS FOR DETERMINING THERMAL CONDUCTIVITY. Patented Oct. 11, 1949. Reg. No. 38,819.

Pat. 2,484,737. MEASURING APPARATUS. Patented Oct. 11, 1949. Reg. No. 38,820.

These two related devices make it possible to determine the average flow of a liquid or of electrical energy within a selected period of time. In Pat. 2,484,737 measurements (other than of electricity) are translated into electrical quantities after which the instrument is used to obtain data required for the final result. The potential differences between two series of resistors at predetermined junction points constitute the required data. Pat. 2,484,736 is suited to control work and gives a direct reading of the thermal conductivity of a test specimen so that a direct comparison can be made with the known thermal conductivity of a standard made of a different material. (Owner) O. W. Storey, Trustee for the Partnership of O. W. Storey & Associates, 180 North Wabash Ave., Chicago 1, Ill. Group 36—19.

Pat. 2,434,633. MICROMETER CALIPER. Patented Jan. 20, 1948. Device is operated like a slide rule for reading minute measurements. Elongated frame supports a slide having several scales thereon. Frame and slides have jaws at lower ends to support object to be measured. Yoke with central aperture is detachably secured to free ends of frame. Slide is secured to drum connected to aperture, and drum is rotated by a detachable handle to regulate distance between jaws. (Owner) J. P. Amador, 306 North 6th St., Newark 7, N. J. Groups 33—52; 35—43. Reg. No. 38,821.

Pat. 2,508,675. APPARATUS FOR REMOVING AIR BAGS FROM RETREADED TIRES. Patented May 23, 1950. Support for tire has a series of tread-engaging elements slidable into and out of engagement with the tread. Lever members connected to actuating means connect with the tread-engaging elements which are movable to engage and apply sufficient pressure to the tread to facilitate easy withdrawal of pressure bag after tire is vulcanized. (Co-owner) Auto Tyre Services Ltd. Correspondence to Baldwin & Wight, Washington Loan & Trust Building, Washington 4, D. C. Groups 33—52; 35—69. Reg. No. 38,822.

Pat. 2,511,278. COMBINATION SHEATH AND NAIL FILE. Patented June 13, 1950. Pocket comb has a sheath in back portion to carry a removable nail file. Sheath is open at one end and has a slightly bowed recess. At the opening a shield detent on one side and a beveled margin at opposite side co-act with a depression and a beveled undercut in handle end of file to hold file securely in sheath. (Owner) Ronald G. Lyle, 3544 Hudson, Seattle 8, Wash. Groups 30—32; 39—81; 40. Reg. No. 38,823.

Pat. 2,513,897. HAIR COMB. Patented July 4, 1950. Comb has two sets of resiliently biased teeth which may be held in adjustment to tension strands of hair and thus produce a curl. Handle of comb is axially bored to receive a springed piston rod provided with a series of teeth at its outer end which mesh with those fixed to end of handle. In use, the position of the teeth is manually adjusted by use of a slot and releasable lug arrangement that provides a guiding and limiting means for the springed piston rod as the comb is applied to the hair. (Owner) Kenneth G. Sonntag, 550 Berkshire Place, San Antonio, Tex. Groups 30—32; 39—81—91; 40. Reg. No. 38,824.

Pat. 2,508,391. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. Patented May 23, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) The purpose of this engine is to obtain more power and better control through partial compression of the fuel-air charge prior to delivery to the combustion chamber. Aligned along the crankshaft of the engine are three or more cylinders, each having upper and lower portions connected by ducts. The operation of a reciprocating piston within each cylinder forms an upper combustion chamber. Each chamber is provided with ignition means and an intake port and lower exhaust and scavenging ports. A flange on each piston is operable within the larger portion of the cylinder to form a double-ended compressor, the bottom portion of which supplies the scavenging air chamber of the cylinder. An air-fuel mixture is supplied by the upper portion of each compressor to the combustion chamber of another cylinder. The latter piston sequentially follows the piston of the supplying compressor, the air-fuel mixture being measured and timed by a pressure-responsive valve in the inlet port and by the coordinated action of the supplying compressor. (Owner) Charles M. Huntington, 609 South Aliso Ave., Albuquerque, N. Mex. Group 35—19. Reg. No. 38,825.

Des. 155,897. DESIGN FOR A TOILET PAPER ROLL HOLDER. Patented Nov. 8, 1949. Roll is received on U-shaped rod with a pivoted locking end. (Owner) Charles

M. Huntington, 609 South Aliso Ave., Albuquerque, N. Mex. Groups 33—59; 34—41; 39—81; 40. Reg. No. 38,826.

Pat. 2,502,276. AUTOMATIC WINDROW TRIP FOR SELF-DUMP RAKES. Patented Mar. 28, 1950. Tripping attachment for self-dumping hay rakes automatically dumps rake when attachment engages a windrow. Rod rotatably mounted on rake frame projects through axle and hub of one of the supporting wheels. Depending arm on rod has enlargement on lower end to engage a windrow. Crank on other end of rod is connected to a manual control linkage of clutch whereby engagement of arm with windrow will operate clutch and cause the wheels to be clutched to frame and rotated to swing rake to dumping position. (Owner) Robert P. Porter, 618 North Grand, Pierre, S. Dak. Group 35—22. Reg. No. 38,827.

Pat. 2,512,792. REAR VISION REFLECTOR TUBE FOR MOTOR VEHICLES. Patented June 27, 1950. Periscope type rear vision mirror for motor vehicles. Tubular housing attached to outside of windshield within easy vision of driver includes a mirror and magnifying lens arrangement so the image is seen in its proper horizontal position and provides a wide field of vision. (Owner) John J. Delaney, 3201 Butler Ave., Los Angeles 34, Calif. Groups 32—31; 38—31. Reg. No. 38,828.

Pat. 2,515,009. NOSE AND MOUTH PROTECTOR. Patented July 11, 1950. Two gauze envelopes detachably connected by snap fasteners fit over the nose and mouth and have straps at side edges to be tied at rear of wearer's head. The envelopes open to receive removable filtering material of sponge rubber or additional gauze. (Owner) Tobito Hyghlago, % Cecil E. Robertson, 228½ North Second St., Muskogee, Okla. Group 39—16. Reg. No. 38,829.

Pat. 2,517,553. VARIABLE RESISTANCE WITHOUT CONTACTS. Patented Aug. 8, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This variable resistance avoids the use of moving contacts so that such disadvantages as wear or fire hazard are overcome. Basically, the apparatus comprises a flexible tubular coil containing mercury, the ends of the coil being closed by voltage terminals. The coil includes a permanent magnet in operative engagement with an expansible diaphragm and a reservoir mounted at one end of the magnet in liquid connection with the coil. Resistance is adapted to decrease in value with current flow in one direction and remain constant in value when current is reversed. Several modifications and adaptations are shown. (Owner) Clarence B. Fowler, 3100-G Morris St., Philadelphia 45, Pa. Group 36—19. Reg. No. 38,830.

Pat. 2,511,771. MEMORANDUM PAPER HOLDER. Patented June 13, 1950. Holder comprises a sheet metal base. Rear of base is provided with ears and axle for supporting roll of paper. In use, phone is mounted on base. Paper is fed under base of phone and through a slot in metal base to an upwardly inclined portion of the base which serves as a writing surface. Tensioning and tearing means are provided. If desired, memos may be wound on an auxiliary roll mounted on front of base. (Owner) James J. Fagan, 1061 Peck St., Muskegon, Mich. Groups 25—99; 33—73; 39—81; 40. Reg. No. 38,831.

Pat. 2,517,058. VACUUM CLEANER NOZZLE. Patented Aug. 1, 1950. Nozzle for vacuum cleaners to remove embedded dirt from deep piled rugs, etc. without adjustment. A hollow body with elongated parallel sides has members mounted on a horizontal pivot extending below the nozzle and forming air passages which open and close as nozzle is passed back and forth against surface to be cleaned. Air flow is reversed at bottom of nozzle where it enters main nozzle and causes a turbulence pushing rug pile from leading side of nozzle and drawing deeply embedded dirt into dust bag. (Owner) Jay J. Uber, 19 Pleasant St., Westfield, Mass. Group 36—21. Reg. No. 38,832.

Pat. 2,509,286. METHOD OF ELECTRICALLY DRIVING BAND ROLLING MILL REELS. Patented May 30, 1950. In this drive for band rolling mill reels two electric machines with separate excitations are coupled to two reels. Armatures of the machines are connected in series with armature of a feeding generator driven by a constant speed motor. Excitations of the two machines are automatically adjusted by a rheostat with a double field so their E. M. F.'s are equal and opposed at each instant. Cursor of rheostat is controlled by a kinemometer, the two disks of which are joined mechanically to the two machines measuring the ratio of the speeds of the machines and actuating the reels. (Owner) Societe Anonyme des Acieries & Forges de Firminy. Correspondence to Robert E. Burns, 150 Nasssau St., New York 7, N. Y. Groups 33—12; 35—42. Reg. No. 38,833.

Pat. 2,337,350. DOOR ANTIRATTLER. Patented Dec. 21, 1943. Anti-rattler for motor vehicles has a metal plate of angular horizontal section mounted on door frame. A plate housing communicates with opening in plate. A pair of opposed metallic cups are slidably mounted in housing. Adjustable rubber blocks are molded around sockets in bottom of cups to compensate for wear. Adjustable screws at ends of housing have ball ends journaled in the sockets for rotatable connection to cups. Blocks receive a wedge-shaped member on vehicle door and prevent vibration. (Owner) Thomas A. Ryals, Luray, Tenn. Group 38—31. Reg. No. 38,834.

Pat. 2,515,910. PITMAN, CRANKPIN, AND BOXING FOR MOWING MACHINES. Patented July 18, 1950. This device for hay-mowing machines and the like is large and light and is designed to retain grease and oil for a long period. A journal of greater diameter than crankpin has a conical recess and is rotatably mounted in a housing. Removable collar rotatably fits spacing ring on pin adjacent journal. Grease fitting in wall of housing communicates with hollow portion of journal and receives the collar. Centrifugal force tends to hold grease in housing rather than throw it out as in conventional housings. (Owner) John E. Sugden, Route 3, Richland Center, Wis. Group 35—22. Reg. No. 38,835.

Pat. 2,138,734. COMPOSITE SURFACING MATERIAL. Patented Nov. 29, 1938. A sand, gravel, and cement aggregate and asphalt mixture are heated until the asphalt is melted, after which ground vulcanized rubber waste containing a filler is added. The combination is agitated to insure satisfactory mixture. Heating is continued for a short time at a temperature just below the melting point of rubber to obtain an intimate mix of the three ingredients without allowing the rubber to disintegrate and lose its identity. Roadways, floors, and roofings having a properly prepared base covered with the composition do not wave or bleed at high temperatures. (Owner) Albert E. H. Dussek. Correspondence to Emery, Holcombe & Blair, Munsey Building, 1329 E St., N. W., Washington 4, D. C. Group 29—31—32. Reg. No. 38,836.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 7, 1950

[VOL. 640. No. 1]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 522,165. SERVICE INDUSTRIES, Philadelphia, Pa. Filed May 9, 1947.

SIL-VAR

FOR ALUMINUM ASPHALT PROTECTIVE AND FINISHING COATING COMPOSITION.
Claims use since November 1945.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 518,546. THE McBEE COMPANY, Athens, Ohio. Filed Mar. 5, 1947.

Keysort Selector

Applicant disclaims the word "Selector."
FOR MACHINE FOR SORTING NOTCHED CARDS.
Claims use since November 1939.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 509,361. NEA SERVICE, INC., Cleveland, Ohio. Filed Sept. 19, 1946.

Priscilla's Pop

"Priscilla's Pop" is the name of a fictitious character.
FOR COMIC DRAWINGS, PUBLISHED IN DAILY AND SUNDAY NEWSPAPERS.
Claims use since July 7, 1946.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 514,227. SOAP CRAFT, INC., Chicago, Ill. Filed Dec. 13, 1946.

Soap Craft

The word "Soap" is disclaimed.
FOR TOILET SOAP.
Claims use since Nov. 26, 1946.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 546,954. CENTRAL BAG & BURLAP COMPANY, Chicago, Ill. Filed Jan. 14, 1948.

CENTRAL

FOR TEXTILE BAGS.
Claims use since Sept. 2, 1947.

Ser. No. 546,964. DETREX CORPORATION, Detroit, Mich. Filed Jan. 14, 1948.

DETREX

FOR METAL CLEANING AND DEGREASING EQUIPMENT—NAMELY, TANKS OF THE RECEPTACLE TYPE ADAPTED FOR CONTAINING LIQUIDS FOR DIP TREATMENT OF WORK OBJECTS BY IMMERSION, STORAGE TANKS, WORK BASKETS, TANKS FOR CHEMICAL FLUID, WIRE BASKETS, AND SETTLING TANKS.
Claims use since Dec. 20, 1935.

Ser. No. 567,735. PRINCESS EVE PRODUCTS CORPORATION, New York, N. Y. Filed Oct. 23, 1948.

Created by Princess Eve

The words "Created by" are disclaimed.
FOR LIP STICK CASES, PERFUME FLACONS AND TOILETRY BOTTLES MADE OF BASE METAL AND SOLD IN TRADE EMPTY.
Claims use since Dec. 2, 1946.

Ser. No. 572,785. THE VISKING CORPORATION, Chicago, Ill. Filed Jan. 25, 1949.

VISKETTES

Applicant claims ownership of Registrations Nos. 388,423, 388,424, and 425,530.
FOR PLASTIC CASINGS AND TUBINGS FOR USE AS CONTAINERS.
Claims use since Apr. 9, 1948.

Ser. No. 581,182. FARRINGTON MANUFACTURING COMPANY, Boston and Jamaica Plain, Boston, Mass. Filed June 28, 1949.

DUROFRAME

FOR DECORATIVE OR ORNAMENTAL METAL CASES AND BOXES ADAPTED TO CONTAIN MISCELLANEOUS ARTICLES SUCH AS CIGARETTES, PLAYING CARDS, AND JEWELRY.
Claims use since May 2, 1949.

Ser. No. 588,653. R. B. SHAW, trading as R. B. Shaw Co., Flint, Mich. Filed Dec. 1, 1949.

Q-E-D

FOR PAPER BAGS.
Claims use since Nov. 3, 1949.

Ser. No. 589,723. HUMPHREY-CALLANDER AND COMPANY, Clinton, Ill. Filed Dec. 21, 1949.

DAMP-CHAMP

The word "Damp" is disclaimed.
FOR LAUNDRY DAMPENING BAGS.
Claims use since July 28, 1949.

Ser. No. 592,632. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Feb. 17, 1950.

GATOR HIDE

Applicant claims ownership of Registrations Nos. 216,038, 248,588, 323,347, and 323,348.
FOR PAPER BAGS.
Claims use since March 1934.

Ser. No. 593,170. HARJAX PRODUCTS CORP., New York, N. Y. Filed Feb. 28, 1950.

The Paraguard

FOR GARMENT BAGS.
Claims use since Mar. 31, 1949.

CLASS 3
BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 596,733. LEATHER PRODUCTS, INC., Sheboygan, Wis. Filed May 2, 1950. (Sec. 2f as to "Feather-Weight.")

FEATHER-WEIGHT

Applicant claims ownership of Registration No. 296,178.
FOR HORSE BOOTS, TRACK HARNESS, PACING HOPPLES, RIDING SADDLES, AND RIDING BRIDLES.
Claims use since Jan. 1, 1925.

Ser. No. 596,771. ARISTOCRAT LEATHER PRODUCTS, INC., New York, N. Y. Filed May 3, 1950.

LOOK

FOR WALLETS OR BILLFOLDS.
Claims use since Apr. 26, 1950.

Ser. No. 597,684. IRA LEATHER GOODS CO., INC., New York, N. Y. Filed May 18, 1950.

HILL-BILLY

FOR HANDBAGS.
Claims use since Apr. 28, 1950.

CLASS 4
ABRASIVES AND POLISHING MATERIALS

Ser. No. 584,170. TIMESAVER PRODUCTS COMPANY, Seattle, Wash. Filed Aug. 27, 1949.

TIMECUTTER

Applicant claims ownership of Registrations Nos. 503,429 and 137,657.
FOR LAPPING COMPOUND.
Claims use since May 1, 1949.

Ser. No. 589,459. MILSEK CHEMICAL CO., Youngstown, Ohio. Filed Dec. 16, 1949.

MILSEK

FOR POLISH PREPARATION FOR CLEANING, FINISHING, AND PRESERVING WOOD.
Claims use since 1914.

CLASS 5
ADHESIVES

Ser. No. 563,365. THE PURE OIL COMPANY, Chicago, Ill. Filed Aug. 13, 1948. (Sec. 2f.)

PURE

Applicant claims ownership of Registrations Nos. 343,233, 343,649, 343,650, 343,651, 343,805, and 349,765.
FOR AUTOMOBILE INNERTUBE COLD PATCHING CEMENT; AUTOMOBILE GASKET CEMENT; BICYCLE TIRE RIM CEMENT; AND FRICTION TAPE.
Claims use since January 1939.

Ser. No. 577,189. HUDSON PULP AND PAPER CORP., New York, N. Y. Filed Apr. 15, 1949.

SUPPLE-IZED

The word "Supple" is disclaimed.
FOR GUMMED TAPE AND PAPER IN STRIP AND ROLL FORM FOR SEALING PURPOSES.
Claims use since Dec. 1, 1948.

Ser. No. 592,554. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 16, 1950.

VOLAN

FOR METHACRYLATO CHROMIC CHLORIDE USED AS A BONDING AGENT AND ADHESIVE.
Claims use since Dec. 23, 1949.

CLASS 6
CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 554,911. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 17, 1948.

MONSANTO

Applicant claims ownership of Registrations Nos. 140,650, 256,927, 256,126, and 315,300.
FOR ORGANIC AND INORGANIC CHEMICALS GENERALLY INCLUDING SUCH INORGANIC CHEMICALS AS CHEMICAL ELEMENTS, SALTS, ACIDS, BASES, HYDROXIDES AND OXIDES; AND SUCH ORGANIC CHEMICALS AS ALIPHATIC COMPOUNDS, ALICYCLIC COMPOUNDS, AROMATIC COMPOUNDS AND HETEROCYCLIC COMPOUNDS.
Claims use since January 1940.

Ser. No. 568,706. APOTHECARIES HALL COMPANY, Waterbury, Conn. Filed Nov. 13, 1948.

LIBER-T-CIDE

The drawing is lined to indicate the color red.
FOR DRY POWDERY CHEMICAL MIXTURE FOR USE AS AN ANTISEPTIC SOUR FOR LOW TEMPERATURE LAUNDERING OF CLOTHES.
Claims use since June 1, 1946.

Ser. No. 584,975. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Sept. 17, 1949.

LOROL

Applicant claims ownership of Registration No. 322,339.
FOR NORMAL DECYL ALCOHOL (n-DECANOL) OR MIXTURES OF THIS ALCOHOL WITH HOMOLOGUES, AND THE SULFONATES OF THIS ALCOHOL.
Claims use since Aug. 12, 1949.

Ser. No. 590,640. AMERICAN STOVE COMPANY, St. Louis, Mo. Filed Jan. 11, 1950.

FENOSIL

FOR PHENOLSILICATE PRODUCT, A LIQUID HAVING GREAT STABILITY OVER A WIDE RANGE FROM LOW TO HIGH TEMPERATURES AND ALSO A HIGH DIELECTRIC STRENGTH.
Claims use since February 1949.

Ser. No. 590,703. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Jan. 11, 1950.

PECTASIN

FOR ENZYME PRODUCTS USED IN CLARIFYING PLANT JUICES AND EXTRACTS.
Claims use since Aug. 16, 1949.

Ser. No. 591,225. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed June 21, 1950.

FERRADOW

FOR FUNGICIDE.
Claims use since Jan. 18, 1949.

Ser. No. 591,226. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Jan. 21, 1950.

HEXADOW

FOR INSECTICIDE.
Claims use since May 6, 1947.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 574,367. MARATHON COMPANY, Attleboro, Mass. Filed Feb. 23, 1949.

LADYLITE

FOR PYROPHORIC CIGARETTE LIGHTERS.
Claims use since Jan. 15, 1949.

CLASS 10

FERTILIZERS

Ser. No. 574,509. MARY K. HELLER, doing business as Heller Greenhouse Laboratories, Colorado Springs, Colo. Filed Feb. 25, 1949. (Sec. 2f.)

HELLER-GRO

FOR FERTILIZER FOR PLANTS.
Claims use since Aug. 26, 1947.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 568,691. INTERNATIONAL BUSINESS MACHINES CORPORATION, New York, N. Y. Filed Dec. 2, 1949.

HEKTOWRITER

Applicant claims ownership of Registration No. 371,862.
FOR RIBBONS FOR TYPEWRITERS AND OTHER OFFICE MACHINES.
Claims use since May 1937.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 541,561. METAL ARTS MANUFACTURING CO., INC., Atlanta, Ga. Filed Nov. 18, 1947.

Metalart

FOR METAL WINDOW ASSEMBLIES COMPRISING METAL WINDOW FRAMES, METAL WINDOW SASHES, AND WINDOW SCREENS.
Claims use since May 31, 1947.

Ser. No. 559,364. WINDALUME CORPORATION, West New York, N. J. Filed June 16, 1948.

WINDALUME

FOR ALUMINUM AND OTHER METAL WINDOWS, WINDOW FRAMES, WINDOW SASHES, METAL WINDOWS OF THE DOUBLE HUNG TYPE CONSTRUCTION, INCLUDING, AS ESSENTIAL AND INTEGRAL PARTS THEREOF, WEATHERSTRIPS, MEETING RAIL BLOCKS, MULLIONS, HOPPER VENTS, GLASS FRAMES, STORM SASHES, SCREENS AND COMBINATION SCREEN AND STORM SASH STRUCTURES; ALSO CASEMENT WINDOWS, PROJECTED WINDOWS, PICTURE WINDOWS, AWNING-TYPE WINDOWS, FOLDING AND SWIVEL-TYPE WINDOWS, JALOUSIES, BASEMENT SASHES, TRANSOMS, DOORS, EXPANSION CHANNELS, AND WINDOW TRIMS.
Claims use since June 30, 1947.

Ser. No. 559,845. THE KAWNEER COMPANY, Niles, Mich. Filed June 21, 1948. (Sec. 2f.)

EASYSET

Applicant claims ownership of Registrations Nos. 283,287 and 285,192.
FOR STORE FRONT ASSEMBLIES, WINDOW ASSEMBLIES, BULKHEADS, DOORS, TRANSOMS, VESTIBULES, AND PARTS OF THE FOREGOING STRUCTURES.
Claims use since Feb. 28, 1913.

Ser. No. 562,759. CHICAGO PAINTS, INC., Chicago, Ill. Filed Aug. 4, 1948.

STORM KING
ASBESTOS ROOF CEMENT

The wording "Asbestos Roof Cement" is disclaimed. Applicant claims ownership of Registration No. 239,808.
FOR ASBESTOS ROOF CEMENT.
Claims use since 1917.

Ser. No. 570,995. THE UPSON COMPANY, Lockport, N. Y. Filed Dec. 22, 1948.

BLUE CENTER

FOR WALL BOARD.
Claims use since July 15, 1947.

Ser. No. 572,267. NORTON COMPANY, Worcester, Mass. Filed Jan. 15, 1949. (Sec. 2f as to "Norton.")

NORTON

Applicant claims ownership of Registrations Nos. 33,757, 64,093, and others.
FOR HEAT-REFRACTORY MATERIALS CONSISTING OF CRYSTALLINE ALUMINA, SILICON CARBIDE, MAGNESIA GRAIN FOR INSULATION, LINING, PACKING AND CEMENT MATERIALS; REFRACTORY BRICKS, BLOCKS, PLATES, AND OTHER BONDED REFRACTORY SHAPED ARTICLES.
Claims use since August 1885 as to the mark "Norton"; and since November 1948 as to the mark shown.

Ser. No. 575,354. KOPPERS COMPANY, INC., Pittsburgh, Pa. Filed Mar. 12, 1949. (Sec. 2f.)

KOPPERS

Applicant claims ownership of Registrations Nos. 160,223 and 160,224.
FOR BITUMINOUS CEMENT FOR FLASHING AND ROOFING, TAR-SATURATED FABRIC, ASPHALT AND TAR FELT, AND WATERPROOF PITCH FOR BUILDING AND ROOFING, BITUMINOUS FIBER ROOFING COATING PLASTIC, BITUMINOUS TOUCH-UP FOR PATCHING AND REPAIRING BITUMINOUS COATED SURFACES, AND BITUMINOUS PROTECTED METAL ROOFING, SIDING AND VALLEYS.
Claims use since Nov. 1, 1948, as to the mark shown; and since Nov. 15, 1921, as to "Koppers."

Ser. No. 575,750. CENTRAL MACHINE WORKS CO., Minneapolis, Minn. Filed Mar. 21, 1949.

PERMA-DOCK

The word "Dock" is disclaimed.
FOR METAL BRACKETS FOR USE IN THE CONSTRUCTION OF DOCKS.
Claims use since April 1947.

Ser. No. 579,315. GAMBLE-SKOGMO, INC., Minneapolis, Minn. Filed May 23, 1949.

HOMEguard

Applicant disclaims the word "Home."
FOR CHEMICALLY TREATED WOOD CELLULOSE IN LOOSE FORM USED FOR THERMAL INSULATION PURPOSES.
Claims use since April 1941.

Ser. No. 579,447. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio. Filed May 24, 1949.

The trade-mark consists of the letter "W" arranged within the inner of two concentric circles, between which at opposite sides is a monogram consisting of the letters O, H, and I. Applicant claims ownership of Registrations Nos. 120,774 and 121,485.
FOR LIME IN POWDERED FORM FOR BUILDING PURPOSES.
Claims use since Nov. 12, 1917.

Ser. No. 587,588. PERMANENTE CEMENT COMPANY, Oakland, Calif. Filed Sept. 16, 1949.

ONEDAY

The drawing is lined for shading. Applicant claims ownership of Registration No. 279,803.
FOR PORTLAND CEMENT.
Claims use since Aug. 7, 1930.

Ser. No. 587,589. PERMANENTE CEMENT COMPANY, Oakland, Calif. Filed Sept. 16, 1949.

Applicant claims ownership of Registration No. 263,907.
FOR PORTLAND CEMENT AND OIL-WELL CEMENT.
Claims use since October 1927.

Ser. No. 587,591. PERMANENTE CEMENT COMPANY, Oakland, Calif. Filed Sept. 16, 1949.

Applicant claims ownership of Registration No. 263,906.
FOR PORTLAND CEMENT AND OIL-WELL CEMENT.
Claims use since October 1927.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 530,809. DIAMOND EXPANSION BOLT COMPANY, INC., Garwood, N. J. Filed Aug. 8, 1947. (Sec. 2f.)

SUPER-GRIP

The lining expresses shading. Applicant claims ownership of Registrations Nos. 95,999 and 113,566.
FOR BOLT ANCHORS AND EXPANSION SHIELDS.
Claims use since Dec. 2, 1922.

Ser. No. 545,153. MUELLER CO., Decatur, Ill. Filed Dec. 22, 1947. (Sec. 2f.)

MUELLER

Applicant claims ownership of Registrations Nos. 64,609, 64,610, 64,611, 65,052, 66,513, 68,335, 68,337, 70,303, 85,269, 250,569, and 381,450.
FOR PLUMBING EQUIPMENT AND PARTS THEREOF—NAMELY, BRASS, IRON, AND STEEL PLUGS, SOLDERING NIPPLES AND UNIONS, UNION COUPLINGS, LEAD FLANGE CONNECTIONS, BRANCH CONNECTIONS, GOOSENECKS, SERVICE BOXES AND INCREASERS THEREFOR, SERVICE BOX SHUT-OFF RODS, SERVICE BOX REPAIR LIDS, SERVICE CLAMPS, WATER METER YOKES, METER BOX COVERS, T'S, PRESSURE REDUCING AND REGULATING VALVES AND PARTS THEREOF, PRESSURE AND TEMPERATURE RELIEF VALVES AND PARTS THEREOF, BRASS AND IRON GAS STOPS, GAS STOVE STOPS, GAS HOSE STOPS, GAS METER CONNECTIONS, GAS METER SWIVELS, GAS SERVICE T'S AND PLUGS THEREFOR, GAS SAFETY NIPPLES

AND PLUGS THEREFOR, GAS PIN-OFF T'S, RUBBER PLUGS FOR T'S AND NIPPLES, LAVATORY, BATH AND SINK, LAWN, LAUNDRY AND LABORATORY FAUCETS, COMBINED DRAINS AND OVERFLOWS, TRAPS FOR BATH TUBS, LAVATORIES, SINKS AND LAUNDRY TUBS, SHOWER STALLS AND PARTS THEREOF, COMBINED TRAP SCREWS AND FERRULES, BUILT-IN VALVES, SUPPLY PIPES FOR BATH, LAVATORY AND SINK FAUCETS, DRAIN AND VENT CONNECTIONS, TRAP COVERS, SLIP JOINT T'S, ELBOW T'S AND BENDS, TRAP SCREWS, REDUCING T'S, COMBINED T'S AND ELBOWS, SLIP JOINT UNION COUPLINGS, FLOOR FLANGES, FAUCET TAILPIECES, COCK HOLE COVERS, BATH, BASIN AND SINK STOPPERS, HOSE COUPLINGS AND BUSHINGS, CHECK VALVES, BOILER COUPLINGS, LAVATORY STOPS, GLOBE VALVES, ELBOWS, SERVICE T'S AND PLUGS THEREFOR, SAFETY NIPPLES AND PLUGS THEREFOR, ADJUSTABLE FLANGES, INTERCHANGEABLE VALVE AND FAUCET HANDLES AND STEMS, BRASS FERRULES, COMBINED BRASS AND IRON FERRULES, ANGLE VALVES, STOP AND DRAIN VALVES, STRAINERS, BALL VALVES, FLUSH VALVES, THREE-WAY VALVES, COMBINATION BATH FAUCETS, COMBINATION LAVATORY FAUCETS, COMBINATION SINK FAUCETS; POP-UP DRAINS FOR BATH TUBS, LAVATORIES AND SINKS; SHAMPOO COMBINATIONS; CONCEALED BATH, LAVATORY AND SINK FIXTURES; CONCEALED BATH AND SHOWER VALVES, BATH SPOUTS, TUB AND SHOWER FAUCETS, GLASS FILTER FAUCETS, SELF CLOSING VALVES AND FAUCETS AND PARTS THEREOF, LABORATORY VALVES AND FITTINGS, BOILER DRAIN VALVES, SHOWER HEADS AND FITTINGS, MIXING VALVES, CORPORATION STOPS, CURB STOPS, SPRINKLING AND FLUSHING HYDRANTS AND PARTS THEREOF, ADAPTER NIPPLES, LAVATORY AND SINK SOAP DISHES, LINE STOPS, COPPER PIPE AND FITTINGS THEREOF, SPLIT REPAIR SLEEVES, LUBRICATED PLUG STOPS, FIRE HYDRANTS AND PARTS THEREOF, GATE VALVES AND PARTS THEREOF, MUD VALVES, FLAP VALVES, SLUICE GATES, SHEAR GATES, INDICATOR POSTS, BENCH STANDS, VALVE BOXES, AND PIPE LINE STOPPERS.

Claims use since Feb. 15, 1887.

Ser. No. 558,425. ALL-STEEL EQUIPMENT INC., Aurora, Ill. Filed June 4, 1948.

R-A-S-E

FOR HARDWARE—NAMELY, COVER PLATES FOR METAL BOXES, AND CABLE CLAMPS.

Claims use since March 1941.

Ser. No. 558,906. MARS ENGINEERING & MFG. CO., Burbank, Calif. Filed June 10, 1948.

The drawing is lined for contrast. The words "Household Products" and the representation of the goods are disclaimed.

FOR KITCHEN UTENSILS OF BASE METAL HOLLOW WARE—NAMELY, PERCOLATORS, COFFEE MAKERS, EGG POACHERS, SECTORED RECEPTACLES, OMELET PANS, FOOD WARMERS.

Claims use since Apr. 8, 1948, as to the mark shown; and since Oct. 15, 1946, as to the mark "Jack & Jill Household Products."

Ser. No. 561,769. RAY OIL BURNER CO., San Francisco, Calif., assignor to Ray Oil Burner Co., a corporation of California. Filed July 20, 1948. (Sec. 2f.)

RAY

Applicant claims ownership of Registrations Nos. 197,995 and 288,885.

FOR FUEL CONTROL CHECK VALVES; RELIEF VALVES; ANTI-SIPHON VALVES FOR PREVENTING SIPHONING OF FUEL; METALLIC BELLOWS CONNECTED TO AND ADAPTED FOR MOVING LEVER ARMS WHEN THE BELLOWS ARE EXPANDED AND CONTRACTED DUE TO CHANGES IN PRESSURE; AND STRAINERS FOR MECHANICALLY REMOVING FOREIGN MATERIAL FROM OIL.

Claims use since 1932.

Ser. No. 561,789. YORKVILLE CRAFTSMEN, INC., New York, N. Y. Filed July 20, 1948.

Silvalum

FOR GIFT, NOVELTY, AND HOUSEHOLD WARES, MADE OF METAL—NAMELY, COCKTAIL SHAKERS, FLOWER VASES, TRAYS, CANDY DISHES, TUMBLERS, FLOWER BOWLS, AND FRUIT BOWLS.

Claims use since August 1947.

Ser. No. 563,608. FLOWER CITY SPECIALTY COMPANY, Rochester, N. Y. Filed Aug. 17, 1948.

MONKEY LINK
Self-Closing Repair Link

The representation of a tire and chain and link and all wording except the word "Monkey" are disclaimed.

Applicant claims ownership of Registration No. 222,962.

FOR REPAIR LINKS FOR TIRE CHAINS.

Claims use since March 1948.

Ser. No. 565,176. DOEHLER-JARVIS CORPORATION, New York, N. Y. Filed Sept. 15, 1948.

EVERPLATE

FOR METAL SERVING DISH OR PLATTER.

Claims use since Nov. 6, 1947.

Ser. No. 565,804. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio. Filed Sept. 24, 1948. (Sec. 2f as to the word "Kimble.")

No claim is made to the words "Glass" or "Bar." Applicant claims ownership of Registrations Nos. 162,799, 162,800, 164,311, 374,672, 377,988, 379,347, 379,843, 379,844, 381,836, 388,537, 398,233, and 398,686.

FOR TOWEL BARS MADE OF GLASS WITH METAL FITTINGS ATTACHED THERETO.

Claims use since Apr. 15, 1939.

Ser. No. 578,204. WALTER KING FLAVIN, doing business as Super-Sonic Materials, Charlestown, Mass. Filed May 4, 1949.

The representation of the tubing is disclaimed.

FOR METAL PIPING AND METAL TUBING.

Claims use since Apr. 7, 1949.

Ser. No. 580,892. MANSFIELD SANITARY POTTERY, INC., Perrysville, Ohio. Filed June 22, 1949.

FOR TOILET BOWLS AND TANKS, URINALS, LAVATORIES, AND LAVATORY BASINS, SINKS AND METAL FITTINGS FOR EACH—NAMELY, BALL COCKS AND FLUSH VALVES.

Claims use since June 22, 1937.

Ser. No. 581,037. JOHN STADLER, doing business as Universal Clip Company, Bridgeport, Conn. Filed June 24, 1949.

"KLIPOMAT"

FOR AUTOMOBILE MOLDING FASTENER ASSORTMENT, COMPRISING A BASE PLATE, RETAINER, SPRING, AND FASTENING BOLT.

Claims use since May 1, 1949.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 577,993. SEE FABRIKS AKTIEBOLAG, Sandviken, Sweden. Filed Apr. 29, 1949.

SEEFAB

Applicant claims ownership of Swedish Registration No. 65,810, dated Jan. 28, 1949.

FOR DRAWN AND COLD ROLLED METAL TUBULAR STRUCTURAL MEMBERS AND TUBE BLANKS.

Ser. No. 590,354. CONTINENTAL SMELTING & REFINING CO., McCook, Ill. Filed Jan. 5, 1950.

COSCO

FOR NON-FERROUS METALS AND ALLOYS SOLD IN BAR AND INGOT FORM AND COMPRISING LEAD, ANTIMONIAL LEAD, BABBITS, SOLDERS, AND VARIOUS ALLOYS OF LEAD, ANTIMONY, TELLURIUM, TITANIUM, BISMUTH, CADMIUM, ZINC, ALUMINUM, AND COPPER.

Claims use since Mar. 7, 1949.

CLASS 15

OILS AND GREASES

Ser. No. 592,455. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

AMERICUT

Applicant claims ownership of Registrations Nos. 159,168, 396,266, and 396,267.

FOR INDUSTRIAL OIL—NAMELY, CUTTING AND GRINDING OIL.

Claims use since April 1938.

Ser. No. 592,456. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

ANOBAR

Applicant claims ownership of Registrations Nos. 324,369 and 199,733.

FOR INDUSTRIAL GREASE FOR USE AS BALL AND ROLLER BEARING LUBRICATION.

Claims use since March 1945.

Ser. No. 592,458. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

ANODRIP

Applicant claims ownership of Registrations Nos. 324,369 and 199,733.

FOR INDUSTRIAL OIL—NAMELY, A DRIPLESS OIL FOR BEARING LUBRICATION.

Claims use since January 1944.

Ser. No. 592,459. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

ANOKUL

Applicant claims ownership of Registrations Nos. 324,369 and 199,733.

FOR INDUSTRIAL OIL—NAMELY, A SULPHURIZED LARD CUTTING OIL.

Claims use since April 1938.

Ser. No. 592,460. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

AMOKULUBE

Applicant claims ownership of Registrations Nos. 324,369 and 199,733.
FOR ALL PURPOSE GREASE FOR USE AS WHEEL BEARING LUBRICATION AND GENERAL INDUSTRIAL HIGH TEMPERATURE BEARING GREASE.
Claims use since May 1943.

Ser. No. 592,461. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

MIN-AMOCYL

FOR INDUSTRIAL OIL—NAMELY, STRAIGHT MINERAL STEAM CYLINDER OIL FOR GENERAL GEAR LUBRICATION.
Claims use since April 1938.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 514,938. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Original filed, act of 1905, Dec. 28, 1946; amended to application under act of 1946, Principal Register, Mar. 8, 1948.

FOR CHEMICALS DERIVED FROM CORN—NAMELY, MODIFIED WHOLE PROTEIN FROM CORN GLUTEN AND ZEIN FOR USE AS INGREDIENTS IN PAINTS.
Claims use since May 30, 1944.

Ser. No. 517,059. INDUSTRIAL METAL PROTECTIVES, INC., Wilmington, Del., and Dayton, Ohio. Original filed, act of 1905, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Aug. 8, 1947.

ZINCILATE

FOR ANTI-CORROSIVE PAINTS FOR USE ON METAL SURFACES, SAID PAINTS BEING FOR INDUSTRIAL USE AND SOLD DIRECTLY TO MANUFACTURERS.
Claims use since Jan. 18, 1947.

Ser. No. 539,657. CONTINENTAL PAINT & VARNISH CO., Chicago, Ill. Filed Oct. 31, 1947.

CARIBBEAN

FOR COMBINATION PAINT SEALER AND LIQUID COATER.
Claims use since 1939.

Ser. No. 539,784. STETSON PAINT & VARNISH COMPANY, Chicago, Ill. Filed Oct. 31, 1947.

STAR ★ PAINTER

The word "Painter" is disclaimed.
FOR LIQUID GLOSS PAINT.
Claims use since 1935.

Ser. No. 554,637. VALENTINE & COMPANY, INC., New York, N. Y. Filed Apr. 14, 1948.

MIDKOTE

FOR LACQUER SEALER.
Claims use since May 16, 1936.

Ser. No. 567,217. STRATHMORE PRODUCTS, INC., Syracuse, N. Y. Filed Oct. 19, 1948.

METALBOND

FOR SYNTHETIC RESINOUS COATING FOR USE ON METAL SUSFACES, OR THE LIKE.
Claims use since Nov. 30, 1944.

Ser. No. 588,982. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Dec. 7, 1949.

VANISH

FOH CHEMICAL REMOVER FOR PAINT, VARNISH, ENAMEL, LACQUER, AND SHELLAC.
Claims use since Feb. 3, 1949.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 577,629. M. MARSH AND SON, Wheeling, W. Va. Filed Mar. 10, 1949.

PIONEERS

Applicant claims ownership of Registration No. 265,000.
FOR CIGARS AND STOGIES PREPARED FOR SMOKING.
Claims use since July 1, 1924.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 555,638. TEXAS ASSOCIATED LABORATORIES, INC., Abilene, Tex. Filed Apr. 26, 1948.

Tali
TEXAS ASSOCIATED LABORATORIES, Inc.

The name "Texas Associated Laboratories, Inc." is disclaimed.
FOR PHENOBARBITAL IN LIQUID FORM AND TABLETS; CAPSULES CONTAINING LIVER, IRON, AND THIAMIN FOR TREATMENT OF NUTRITIONAL ANEMIA; LIQUID RECONSTRUCTIVE TONIC CONTAINING VITAMINS AND MINERALS; CAPSULES CONTAINING CALCIUM, PHOSPHORUS, AND VITAMIN D USED AS AN AID IN PREVENTION OF DEFICIENCIES THEREOF; CONCENTRATED LIQUID DOUCHE PREPARATION FOR CLEANSING OF MUCOUS MEMBRANES; AND MULTIPLE VITAMINIC PREPARATION IN CAPSULE FORM.
Claims use since Apr. 4, 1947.

Ser. No. 558,284. E. C. DE WITT & Co. INC., Chicago, Ill. Filed June 2, 1948. (Sec. 2f.)

DEWITT'S LITTLE EARLY RISERS

No claim is made to the word "Little." Applicant claims ownership of Registrations Nos. 44,550, 45,039, et al.
FOR LAXATIVE AND CATHARTIC PILLS.
Claims use since Nov. 1, 1889.

Ser. No. 565,380. SCHERING CORPORATION, Bloomfield, N. J. Filed Sept. 17, 1948.

PENICOMBISUL

Applicant claims ownership of Registration No. 424,226.
FOR MEDICINAL PREPARATION FOR THE TREATMENT OF MICRO-ORGANIC INFECTION.
Claims use since July 19, 1948.

Ser. No. 566,267. EMERY E. RAYMOND JR., doing business as Raymond Ointment Company, Wilmington, Del. Filed Aug. 6, 1948.

R-O

FOR EXTERNAL OINTMENT.
Claims use since Apr. 10, 1948.

Ser. No. 573,450. BRUCE PHARMACEUTICAL DISTRIBUTING CORP., Chicago, Ill. Filed Feb. 2, 1949.

Q.R.D.

FOR LIQUID PREPARATION USED IN COMBATING THE PITYROSPHORUMOVALE, A GERM ALLEGED TO BE ONE OF THE MAJOR CAUSES OF DANDRUFF.
Claims use since Oct. 27, 1948.

Ser. No. 575,850. CHARLES R. CONKLIN, doing business as The Liden Company, Fort Wayne, Ind. Filed Mar. 22, 1949.

DERM O PHANE

The words "Derm O" are disclaimed.
FOR SALVE FOR TREATMENT OF ECZEMA, PSORIASIS, SKIN INFLAMMATION, AND OTHER SKIN DISORDERS.
Claims use since Dec. 28, 1948.

Ser. No. 577,989. SARA ALTA ASKIN, Philadelphia, Pa. Filed Apr. 29, 1949.

din-dims

NOISEAL

The word "Noiseal" is disclaimed.
FOR ANTISEPTIC COMPOSITION MADE OF WAXES AND OILS DESIGNED TO BE USED IN HUMAN EARS TO REDUCE NOISES AND PROMOTE SLEEP.
Claims use since February 1942.

Ser. No. 579,841. SPECIAL MILK PRODUCTS, INC., West Los Angeles, Calif. Filed June 1, 1949.

Sol-Ad
SM PRODUCTS

The words "Ad" and "Products" are disclaimed.
FOR VITAMIN PREPARATION.
Claims use since Apr. 19, 1949.

Ser. No. 579,842. SPECIAL MILK PRODUCTS, INC., West Los Angeles, Calif. Filed June 1, 1949.

Sol-C
SM PRODUCTS

The letter "C" and the word "Products" are disclaimed.
FOR VITAMIN C SOLUTION.
Claims use since Apr. 19, 1949.

Ser. No. 580,034. RALSTON PURINA COMPANY, St. Louis, Mo. Filed June 6, 1949.

SULFA-NOX

The word "Sulfa" is disclaimed.
FOR MEDICINAL PREPARATION FOR THE PREVENTION AND CONTROL OF COCCIDIOSIS IN CHICKEN FLOCKS.
Claims use since Mar. 2, 1949.

Ser. No. 580,652. JOHN VAN DER EEMS, doing business as Hollandia Importing Company, Hawthorne, N. J. Filed June 17, 1949.

Tusalca

FOR MEDICINE FOR HYPERACIDITY OF THE STOMACH.
Claims use since May 14, 1949.

Ser. No. 581,093. S. M. P. Co., Virginia, Minn. Filed June 25, 1949.

SHA'-LEM

FOR SALVE FOR BURNS AND SKIN IRRITATIONS, AND FOR RELIEVING ITCHING, CHAPPING, AND CHAFING.
Claims use since June 3, 1949.

Ser. No. 584,098. ABBOTT LABORATORIES, North Chicago, Ill. Filed Aug. 27, 1949.

BEVIDOX

FOR MEDICINAL PREPARATION SERVING AS A NUTRITIVE SUPPLEMENT CONTAINING VITAMIN B_{12}.
Claims use since Aug. 11, 1949.

Ser. No. 590,406. ABBOTT LABORATORIES, North Chicago, Ill. Filed Jan. 6, 1950.

NIKETHYL

FOR ANALEPTIC AND CIRCULATORY STIMULANT.
Claims use since Nov. 30, 1949.

Ser. No. 591,130. VICK CHEMICAL COMPANY, New York, N. Y. Filed Jan. 19, 1950.

DIS-MIS

Applicant claims ownership of Registration No. 272,376.
FOR COLD TABLETS.
Claims use since Dec. 21, 1949.

Ser. No. 591,131. VICK CHEMICAL COMPANY, New York, N. Y. Filed Jan. 19, 1950.

DISMISS

Applicant claims ownership of Registration No. 272,376.
FOR COLD TABLETS.
Claims use since Dec. 21, 1949.

Ser. No. 591,335. CROOKES LABORATORIES, INC., New York, N. Y. Filed Jan. 18, 1950.

PERTENAL

FOR PHARMACEUTICAL COMBINATION FOR TREATMENT OF HYPERTENSION.
Claims use since Nov. 9, 1949.

Ser. No. 591,396. AYERST, MCKENNA & HARRISON LIMITED, Rouses Point and New York, N. Y. Filed Jan. 23, 1950.

THIOSULFIL

FOR SULPHANILAMIDE-METHYL-THIODIAZOLE IN DOSAGE FORM.
Claims use since Jan. 10, 1950.

Ser. No. 592,647. MEYER CHEMICAL COMPANY, Detroit, Mich. Filed Feb. 17, 1950.

ALMETRIFON

FOR PREPARATION FOR THE TREATMENT OF TRICHOMONAS VAGINALIS.
Claims use since Dec. 8, 1949.

Ser. No. 592,648. MEYER CHEMICAL COMPANY, Detroit, Mich. Filed Feb. 17, 1950.

ALMEDIOL

FOR PREPARATION FOR THE TREATMENT OF MENOPAUSAL SYNDRONE AND OTHER OVARIAN DYSFUNCTIONS.
Claims use since Dec. 8, 1949.

Ser. No. 592,649. MEYER CHEMICAL COMPANY, Detroit, Mich. Filed Feb. 17, 1950.

ALMEX

FOR PREPARATION FOR THE TREATMENT OF ANEMIAS IN INFANTS AND CHILDREN.
Claims use since Dec. 8, 1949.

Ser. No. 592,650. MEYER CHEMICAL COMPANY, Detroit, Mich. Filed Feb. 17, 1950.

ALMERET

FOR PREPARATION FOR THE TREATMENT OF PERNICIOUS ANEMIA, TROPICAL AND NON-TROPICAL SPRUE.
Claims use since Dec. 8, 1949.

Ser. No. 592,651. MEYER CHEMICAL COMPANY, Detroit, Mich. Filed Feb. 17, 1950.

ALMEBEX

FOR PREPARATION FOR TREATMENT OF B COMPLEX DEFICIENCIES.
Claims use since Dec. 27, 1949.

Ser. No. 593,021. SOLGAR CORPORATION, New York, N. Y. Filed Feb. 24, 1950.

CIPLEX

FOR VITAMIN PREPARATION.
Claims use since July 15, 1947.

Ser. No. 593,093. U. S. VITAMIN CORPORATION, New York, N. Y. Filed Feb. 25, 1950.

FENSOBEL

FOR MEDICINAL PREPARATION CONTAINING A THERAPEUTIC COMPOUND HAVING ANTI-SPASMODIC PROPERTIES FOR USE IN HYPERACIDITY AND GASTRIC HYPER MOTILITY.
Claims use since Jan. 16, 1950.

CLASS 19
VEHICLES

Ser. No. 529,097. S K F INDUSTRIES, INC., Philadelphia, Pa., and elsewhere. Filed July 21, 1947.

SKF

Applicant claims ownership of Registrations Nos. 103,634 and 212,212.
FOR JOURNAL BOXES AND CLOSURES AND LIDS FOR JOURNAL BOXES FOR USE ON FREIGHT AND PASSENGER RAILROAD CARS AND LOCOMOTIVES.
Claims use since Jan. 1, 1925.

Ser. No. 592,710. DANIEL C. LARKIN, doing business under the assumed name of the Crest Company, Detroit, Mich. Filed Feb. 18, 1950.

Crest

FOR AUTOMOBILE SEAT COVERS.
Claims use since Mar. 18, 1935.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 512,501. GOOD-ALL ELECTRIC MANUFACTURING COMPANY, Ogallala, Nebr. Original filed, act of 1905, Nov. 13, 1946; amended to application under act of 1946, Principal Register, Mar. 16, 1948. (Sec. 2f.)

GOOD-ALL

FOR ELECTRICALLY OPERATED TRANSFORMER-TYPE SOLDERING MACHINES FOR USE BY DENTISTS, JEWELERS, OPTICIANS, AND ORTHODONTISTS FOR HIGH-SPEED ASSEMBLY WORK, AND PROFESSIONAL SOLDERING PURPOSES, AND FOR ELECTRICALLY OPERATED CLEANING MACHINES EMPLOYED FOR CLEANING BY AGITATION WASHING WATCH PARTS AND LIKE SMALL OBJECTS.
Claims use since June 1, 1930.

Ser. No. 550,764. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa., and Bloomfield, N. J. Filed Feb. 27, 1948.

CIRCLARC

FOR FLUORESCENT LAMPS.
Claims use since June 30, 1947.

Ser. No. 551,297. MORTON ENGINEERING CO., Philadelphia, Pa. Filed Mar. 5, 1948.

The drawing is lined for the color blue.
FOR TIME CONTROLLED ELECTRIC SWITCHES FOR STARTING AND STOPPING OPERATIONS AND TIMING PROGRAMS, TIME DELAY RELAYS AND SEQUENCE TIMING SWITCHES FOR TIMING SEQUENCE BLASTING.
Claims use since Aug. 22, 1922.

Ser. No. 552,606. THE PYLE-NATIONAL COMPANY, Chicago, Ill. Filed Mar. 20, 1948. (Sec. 2f as to the word "Pyle.")

Applicant claims ownership of Registration No. 305,307.
FOR ELECTRICAL APPARATUS—NAMELY, CONDUIT FITTINGS, FIXTURE HANGERS, CONNECTORS, JUNCTION BOXES, TERMINAL BLOCKS, PLUGS, AND RECEPTACLES; ELECTRIC SWITCHES AND CIRCUIT BREAKERS; EXPLOSION-PROOF ELECTRICAL FITTINGS—NAMELY, JUNCTION BOXES, CONNECTION FITTINGS, SWITCH AND CIRCUIT BREAKER FITTINGS; EXPLOSION-PROOF FLEXIBLE CONDUIT; GENERATORS, TURBO-GENERATORS, TURBO-ALTERNATORS, MOTOR GENERATORS, DYNAMOTORS, ROTARY INVERTERS, LOCOMOTIVE HEADLIGHTS, BACK-UP LAMPS, CLASSIFICATION LIGHTS, MARKER LAMPS, NUMBER LIGHTS, LOCOMOTIVE LIGHTING FIXTURES, INCLUDING GAUGE AND SIGNAL LAMPS, AND CONTROL SWITCHES THEREFOR; HEADLIGHT SWITCHES, FLOODLIGHTS.
Claims use since Mar. 15, 1917.

Ser. No. 552,806. DR. W. SCHAUFELBERGER & CO. SOLIS-APPARATUS MANUFACTORIES, Zurich, Switzerland. Filed Mar. 23, 1948.

Solis

Applicant claims ownership of Swiss Registration No. 104,832, dated July 12, 1943.
FOR HEATING-CARPETS, HEATING-PADS FOR GENERAL USE, HEATING-CAPS, HEATING BLAN-

KETS, HEATING-FOOTRESTS, HEATED FOOTSHOES, PORTABLE HOT AIR DRIERS ALL ELECTRICALLY OPERATED, AND PARTS OF ALL THE AFOREMENTIONED GOODS.

Ser. No. 553,365. HAMILTON INDUSTRIES, Chicago, Ill. Filed Mar. 30, 1948. (Sec. 2f.)

SILK-TONE

No claim is made to the word "Silk."
FOR ELECTRIC LAMP SHADES.
Claims use since January 1938.

Ser. No. 562,944. THE MAGNAVOX COMPANY, Fort Wayne, Ind. Filed Aug. 6, 1948.

MAGNASCOPE

FOR TELEVISION SETS AND PARTS THEREOF.
Claims use since June 14, 1948.

Ser. No. 572,358. HAMILTON ROSS INDUSTRIES, INC., Chicago, Ill. Filed Jan. 18, 1949.

TELETIME

Applicant claims ownership of Registration No. 381,790.
FOR ELECTRIC LAMPS AND ELECTRIC LAMPS HAVING ELECTRIC CLOCKS BUILT INTO THE SAME.
Claims use since Feb. 15, 1948.

Ser. No. 572,613. TROOP WATER HEATER COMPANY, Pittsburgh, Pa. Filed Dec. 23, 1948.

DURA-STONE

No claim is made to the exclusive use of the word "Stone."
FOR ELECTRIC WATER HEATERS.
Claims use since 1937.

Ser. No. 574,141. ELECTRO-THERM, INC., Silver Spring, Md. Filed Feb. 19, 1949.

THERMALINK

FOR IMMERSION ELECTRIC HEATERS.
Claims use since Mar. 30, 1948.

Ser. No. 574,446. THE MCGRAW ELECTRIC COMPANY, doing business as Bussmann Manufacturing Company, Elgin, Ill., and St. Louis, Mo. Filed Feb. 24, 1949.

FUSETRON

FOR ELECTRIC FUSES AND PROTECTORS FOR ELECTRIC CIRCUITS THAT INCLUDES FUSE LINKS AND THERMAL CUT-OUTS AND THAT RESPOND TO HEAVY OVERLOADS OR SHORT CIRCUITS TO OPEN THE CIRCUIT.
Claims use since May 2, 1932.

Ser. No. 575,239. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Mar. 10, 1949.

TOURNAMENT

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since Oct. 22, 1948.

Ser. No. 576,055. THE EDWIN F. GUTH COMPANY, St. Louis, Mo. Filed Mar. 25, 1949.

LUX LINE

Applicant makes no claim to the word "Line."
FOR FLUORESCENT LIGHTING FIXTURE.
Claims use since Jan. 27, 1949.

Ser. No. 576,111. CARTER MOTOR COMPANY, Chicago, Ill. Filed Mar. 26, 1949.

FOR MOTOR GENERATORS FOR RADIOS SOLD PRIMARILY TO PERSONS ENGAGED IN THE MANUFACTURE, SERVICING, AND CONSTRUCTION OF TWO-WAY AUTOMOTIVE RADIOS.
Claims use since Dec. 29, 1948.

Ser. No. 576,203. THE EDWIN F. GUTH COMPANY, St. Louis, Mo. Filed Mar. 28, 1949.

SKOOLUX

Applicant claims ownership of Registrations Nos. 352,394, 356,607, and 362,223.
FOR FLUORESCENT LIGHTING FIXTURES.
Claims use since Jan. 27, 1949.

Ser. No. 576,730. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Apr. 6, 1949.

GOTHAM

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since Dec. 20, 1948.

Ser. No. 576,733. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Apr. 6, 1949.

WALDORF

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since Dec. 11, 1948.

Ser. No. 577,101. COLUMBUS METAL PRODUCTS INC., Columbus, Ohio. Filed Apr. 14, 1949.

CATS EYE

FOR ELECTRICAL AUTOMOTIVE LAMPS.
Claims use since Mar. 1, 1920.

Ser. No. 582,226. JERROLD ELECTRONICS CORPORATION, Philadelphia, Pa. Filed July 20, 1949.

MUL-TV

The letters "TV" are disclaimed.
FOR MULTIPLE ANTENNA SYSTEM PERMITTING THE SIMULTANEOUS OPERATION OF A LARGE NUMBER OF TELEVISION OR FREQUENCY MODULATION RECEIVERS FROM ONE ANTENNA.
Claims use since June 21, 1949.

Ser. No. 584,526. THE CLEVELAND HEATER CO., Cleveland, Ohio. Filed Sept. 7, 1949.

ELNO

FOR METALLIC FITTINGS AND ALLOYS—NAMELY, ANODE RODS, FOR ELECTROLYTICALLY PREVENTING CORROSION OF TANKS, LIQUID CONTAINERS, AND WATER HEATERS.
Claims use since Aug. 27, 1949.

Ser. No. 584,664. ELECTRO-VOICE, INC., Buchanan, Mich. Filed Sept. 10, 1949.

TWILT

FOR ELECTRIC PHONOGRAPH PICK-UP CARTRIDGE.
Claims use since Feb. 1, 1949.

Ser. No. 588,122. HELLESENS ENKE & V. LUDVIGSEN A/S., Copenhagen, Denmark. Filed Nov. 21, 1949.

TIGER

Priority under Sec. 44(*d*). Danish application No. 1632/49, dated Sept. 20, 1949.
FOR ELECTRICAL STORAGE OR DRY CELL BATTERIES AND DRY CELLS.

Ser. No. 588,816. THE STEEL CITY MANUFACTURING COMPANY, Youngstown, Ohio. Filed Dec. 5, 1949.

MAGIC CARPET

The word "Carpet" is disclaimed.
FOR ELECTRIC AUTOMATIC DOOR CONTROLLING APPARATUS INCORPORATING A MAT ACTUATING ELEMENT.
Claims use since Apr. 13, 1949.

Ser. No. 591,257. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 21, 1950.

HAPPI-TIME

FOR CHRISTMAS TREE ELECTRIC LIGHTING OUTFITS, COMPRISING LAMPS, CORDS, AND CONNECTOR PLUGS.
Claims use since Nov. 1, 1949.

Ser. No. 591,369. JENSEN MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 24, 1950.

VIKING

FOR LOUD SPEAKERS.
Claims use since November 1949.

Ser No. 591,391. WEBSTER ELECTRIC COMPANY, Racine, Wis. Filed Jan. 24, 1950.

Featheride

Applicant claims ownership of Registration No. 502,339.
FOR PICK-UP TONE ARMS FOR ELECTRIC PHONOGRAPHS AND ELECTRICAL PHONOGRAPH PICK-UPS.
Claims use since July 29, 1947.

Ser. No. 591,494. THE LEE PRODUCTS CO., INC., Cleveland, Ohio. Filed Jan. 26, 1950.

GERMASTER

FOR VOLATILE LIQUID VAPORIZING ATTACHMENT FOR ELECTRIC VACUUM CLEANERS.
Claims use since May 17, 1948.

Ser. No. 592,019. EMPIRE PRODUCTS, INC., Cincinnati, Ohio. Filed Feb. 6, 1950.

Empire

FOR ELECTRIC FLOOR POLISHERS.
Claims use since Jan. 17, 1950.

Ser. No. 592,099. PRICE BATTERY CORPORATION, Hamburg, Pa. Filed Feb. 7, 1950.

FOR STORAGE BATTERIES.
Claims use since Dec. 29, 1949.

Ser. No. 592,203. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Feb. 9, 1950.

Selectronic

FOR RADIO RECEIVING SETS AND CONTROLS THEREOF.
Claims use since Dec. 20, 1949.

Ser. No. 592,778. PASS & SEYMOUR, INC., Syracuse, N. Y. Filed Feb. 20, 1950.

PASSMOUR

Applicant claims ownership of Registration No. 77,029.
FOR THREE WIRE RANGE RECEPTACLES AND SIMILAR HEAVY DUTY ELECTRICAL POWER OUTLETS FOR THE RECEPTION OF QUICK DETACHABLE PLUGS.
Claims use since Aug. 25, 1909.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 579,070. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky. Filed May 19, 1949. (Sec. 2f.)

Belknap

Applicant claims ownership of Registration No. 70,314.
FOR COASTER WAGONS, CHILDREN'S VELOCIPEDES, TOY PISTOL HOLSTERS, CASTING RODS, FISHING LINES, FISHING FLOATS, TACKLE BOXES, BASEBALL GLOVES, BASE BALLS, STRIKING BAGS, FOOTBALL HELMETS, FOOT BALLS, TENNIS RACKETS, VOLLEY BALLS, BASKET BALLS, BOXING GLOVES, AND BASEBALL BATS.
Claims use since June 1, 1900.

Ser. No. 584,862. RAYMOND C. GASTON, doing business as Gaston Manufacturing Company, Cincinnati, Ohio. Filed Sept. 15, 1949.

Gayplay

FOR CHILD'S PULL TOYS.
Claims use since Aug. 17, 1949.

Ser. No. 585,960. J. SWEDLIN, INC., New York, N. Y. Filed Oct. 7, 1949.

Bebop

FOR DOLLS.
Claims use since Oct. 3, 1949.

Ser. No. 586,001. IZETTA DOLL MANUFACTURING COMPANY, INC., San Francisco, Calif. Filed Oct. 8, 1949.

Izetta

The representation of the doll is disclaimed.
FOR DOLLS.
Claims use since Sept. 22, 1949.

Ser. No. 587,095. O. E. THOMPSON & SONS, Ypsilanti, Mich. Filed Oct. 31, 1949.

Rolls Racer

The word "Racer" is disclaimed.
FOR TOY WAGONS AND TOY WHEELBARROWS.
Claims use since 1927.

Ser. No. 589,451. KOTAKE COMPANY, LIMITED, Honolulu, Territory of Hawaii. Filed Dec. 16, 1949.

狗天鎖

The Japanese characters denote the word "Kintengu," meaning "Golden Superman."
FOR PLAYING CARDS—NAMELY, CARDS FOR THE JAPANESE GAME "HANAFUDA."
Claims use since Oct. 26, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 515,080. CHISHOLM-MOORE HOIST CORPORATION, Tonawanda, N. Y. Original filed, act of 1905, Dec. 31, 1946; amended to application under act of 1946, Principal Register, Jan. 6, 1950. (Sec. 2f.)

MATCHLESS

FOR OVERHEAD TROLLEYS AND PARTS THEREOF.
Claims use since Feb. 11, 1918.

Ser. No. 519,425. THE TILLOTSON MANUFACTURING COMPANY, Toledo, Ohio. Original filed, act of 1905, Mar. 21, 1947; amended to application under act of 1946, Principal Register, June 18, 1948. (Sec. 2f.)

Tillotson

FOR CARBURETORS.
Claims use since Aug. 1, 1922.

Ser. No. 531,039. HUGHES TOOL COMPANY, Houston, Tex. Filed Aug. 11, 1947. (Sec. 2f.)

XTRA HOLE

Applicant claims ownership of Registration No. 399,365.
FOR TOOL JOINTS EMPLOYED IN COUPLING TOGETHER SECTIONS OF DRILL STEM IN WELL DRILLING.
Claims use since Oct. 30, 1941.

Ser. No. 537,020. DECATUR PUMP COMPANY, Decatur, Ill. Filed Oct. 7, 1947. (Sec. 2f.)

BURKS

Applicant claims ownership of Registration No. 409,777.
FOR TURBINE PUMPS, WATER PUMPS, CENTRIFUGAL PUMPS, CENTRIFUGAL EDUCER DEEP WELL SYSTEMS, TURBINE EDUCER DEEP WELL SYSTEMS, AND PARTS THEREOF; AND WATER SYSTEMS COMPRISING A PUMPING UNIT, STORAGE TANK, AND PIPING THEREFOR; BOILER FEED UNITS, COMPRISING A PUMPING UNIT, SUPPLY TANK, FLOAT CONTROLLED MAKE-UP VALVE, AND PIPING THEREFOR; AND CONDENSATION RETURN UNITS, COMPRISING A PUMPING UNIT, SUPPLY TANK, FLOAT CONTROLLED SWITCH, AND PIPING THEREFOR, SOLD AS UNITS.
Claims use since Mar. 1, 1927.

Ser. No. 546,917. AMERICAN SAW & MANUFACTURING COMPANY, Springfield, Mass. Filed Sept. 8, 1947. (Sec. 2f.)

"LENOX"

Applicant claims ownership of Registration No. 114,095.
FOR HACK SAWS.
Claims use since Apr. 30, 1915.

Ser. No. 546,946. THE AUTO-SOLER COMPANY, Atlanta, Ga. Filed Jan. 14, 1948. (Sec. 2f as to "Auto Soler.")

AUTO SOLER

The representation of the shoe is disclaimed. Applicant claims ownership of Registrations Nos. 305,394 and 409,794.
FOR FASTENER FORMING AND INSERTING MACHINES PARTICULARLY ADAPTED FOR USE IN SHOE REPAIRING OPERATIONS.
Claims use since Aug. 22, 1932.

Ser. No. 548,534. CLAUDE B. SCHNEIBLE COMPANY, Detroit, Mich. Filed Jan. 31, 1948. (Sec. 2f.)

"WEAR PROOF"

FOR CENTRIFUGAL PUMPS FOR PUMPING LIQUID CONTAINING SOLIDS.
Claims use since July 1935.

Ser. No. 551,745. SOUTHWORTH MACHINE COMPANY Portland, Maine. Filed Mar. 11, 1948. (Sec. 2f as to the word "Southworth.")

The words "Portland, Maine, U. S. A." and "Quality" are disclaimed.
FOR MACHINERY—NAMELY, PUNCHING MACHINES AND PARTS THEREOF, CORNERING MACHINES AND PARTS THEREOF, PERFORATING MACHINES AND PARTS THEREOF, POWER CORNER CUTTING MACHINES AND PARTS THEREOF, PAPER JOGGING MACHINES AND PARTS THEREOF, MECHANICAL HUMIDIFIERS HAVING A MOTOR DRIVEN VAPORIZER AND FAN, PAPER HANGERS IN THE NATURE OF MECHANICAL CLAMPS FOR CONDITIONING PAPER, PAPER CONDITIONING MACHINES AND PARTS THEREOF, AND AUTOMATIC SKID LIFTS.
Claims use since 1900.

Ser. No. 552,662. THE JOYCE-CRIDLAND CO., Dayton, Ohio. Filed Mar. 22, 1948.

MAGNE-GUARD

Applicant is not claiming color in this mark, and the linings in the mark are not used to indicate color.
FOR LIFTING MECHANISMS—NAMELY, POWER OPERATED AUTOMOBILE LIFTS.
Claims use since Dec. 23, 1947.

Ser. No. 554,116. H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 8, 1948. (Sec. 2f.)

HUDSON KING

Applicant claims ownership of Registrations Nos. 223,040 and 198,069.
FOR BARREL SPRAY PUMPS FOR APPLYING LIQUID SOLUTIONS AND DUST INSECTICIDES, FUNGICIDES, AND DISINFECTANTS.
Claims use since July 8, 1947, on the mark as shown; and since Sept. 1, 1917, on the name "Hudson."

Ser. No. 555,914. AMMCO TOOLS, INC., Chicago, Ill. Filed Apr. 30, 1948.

AMMCO

Applicant claims ownership of Registrations Nos. 282,012 and 282,013.
FOR MACHINE TOOLS—NAMELY, LINE-BORING MACHINES, SHAPERS, BENCH-TYPE HONING MACHINES, EXPANSIBLE AND CONTRACTIBLE GRINDING TOOLS FOR HONING CYLINDER SURFACES, EXPANSIBLE AND CONTRACTIBLE GRINDING TOOLS FOR HONING SMALL BORES, AND PIN-VISES.
Claims use since 1929.

Ser. No. 555,915. AMMCO TOOLS, INC., North Chicago, Ill. Filed Apr. 30, 1948.

AMMCO

Applicant claims ownership of Registrations Nos. 282,012 and 282,013.

FOR MACHINE TOOLS—NAMELY, LINE-BORING MACHINES, SHAPERS, BENCH-TYPE HONING MACHINES, EXPANSIBLE AND CONTRACTIBLE GRINDING TOOLS FOR HONING CYLINDER SURFACES, EXPANSIBLE AND CONTRACTIBLE GRINDING TOOLS FOR HONING SMALL BORES, AND PINVISES.

Claims use since 1929.

Ser. No. 561,089. TRUCKSTELL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Sept. 13, 1948.

Tip-Toe-Matic

FOR OVERDRIVE TRANSMISSIONS.

Claims use since July 20, 1948.

Ser. No. 565,287. LYNTON H. ROBERTSON, New York, N. Y. Filed Sept. 16, 1948.

"STIR-O-SCOPE"

The word "Stir" is disclaimed.

FOR STIRRING ROD FOR MIXING DRINKS.

Claims use since July 8, 1948.

Ser. No. 565,963. QUICK CHARGE, INC., Oklahoma City, Okla. Filed Sept. 27, 1948.

Quick-Lube

The word "Quick-Lube" is disclaimed. Applicant claims ownership of Registrations Nos. 422,504 and 434,742.

FOR ELECTRICALLY OPERATED PORTABLE OIL CHANGER FOR DRAINING OF OIL FROM MOTOR VEHICLES.

Claims use since May 13, 1948.

Ser. No. 571,095. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 24, 1948. (Sec. 2f.)

DUNLAP

Applicant claims ownership of Registration No. 369,614.

FOR GROUP A—WRENCHES, PLIERS, CHISELS, TINNERS' SNIPS, HACK SAWS, SMOOTH PLANES, BLOCK PLANES, BIT BRACES, AXES, HATCHETS, SCREW DRIVERS, HAMMERS, HAND SAWS, COPING SAWS, AUGER BITS, HAND DRILLS, BREAST DRILLS, PIPE STOCK AND DIE SETS, SOLDERING IRONS; GROUP B—BUZZ SAWS, BENCH-TYPE POWER GRINDERS, SAW SETS, DRAW KNIVES, TROWELS, PIPE VISES, WOODWORKERS' VISES; GROUP C—LATHES, JIG SAWS, POWER SAWS, DRILL PRESSES, JOINTER PLANERS, SHOVELS, SPADES, FORKS, POST HOLE DIGGERS, PRUNERS, HEDGE SHEARS; GROUP D—DADO SAW SETS, WORK BENCHES, MACHINISTS' VISES; GROUP E—PULLEYS, FLOOR SCRAPERS, FLEXIBLE SHAFTS, SCYTHES, LAWN MOWERS; GROUP F—PLASTERERS' HAWKS, POCKET KNIVES, BUTCHERS' SAWS, SCISSORS, KITCHEN CUTLERY (KNIVES, FORKS, CLEAVERS); GROUP G—VALVE LIFTERS; GROUP H—SAW MILLS, SAW MILL GANG EDGERS, PLANING MILLS; GROUP I—CEMENT EDGERS, CEMENT GROOVERS, POWER TAKE-OFF UNITS, SAW GUMMING MACHINES; GROUP J—SAW MANDRELS.

Claims use since Jan. 23, 1937, for Group A; since July 15, 1937, for Group B; since Jan. 15, 1939, for Group C; since Jan. 15, 1940, for Group D; since Jan. 15, 1941, for Group E; since Jan. 15, 1942, for Group F; since January 1943 for Group G; since January 1946 for Group H; and since July 15, 1947, for Group I.

Ser. No. 572,567. IDEAL ROLLER AND MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 22, 1949.

uRc

FOR YIELDABLE SURFACED ROLLERS FOR USE IN LIQUID TRANSFERRING, SPREADING, COATING, FEEDING, PRESSING, GUIDING, AND THE LIKE.

Claims use since May 1934.

Ser. No. 572,956. EASTERN CLAY PRODUCTS, INC., Jackson, Ohio. Filed Jan. 28, 1949.

DURASTRIP

FOR RESILIENT SHEET USED IN FOUNDRY MOLD APPARATUS SUCH AS CORE BOXES, FLASKS, AND THE LIKE.

Claims use since Jan. 10, 1949.

Ser. No. 575,170. THE WASHBURN COMPANY, Worcester, Mass. Filed Mar. 9, 1949.

ANDROCK

Applicant claims ownership of Registration No. 101,728.

FOR MECHANICAL EGG BEATERS AND WHIPS, SPATULAS, CAKE TURNERS, APPLE CORERS, PASTRY BLENDERS, POTATO MASHERS; SPOONS, FORKS, LADLES AND SCOOPS MADE OF BASE METAL; JAR OPENERS, FLOUR SIFTERS, MEAT AND VEGETABLE CHOPPERS; HAND-OPERATED BEATER AND BOWL SETS FOR MIXING FOODS; PLATE SCRAPERS; ICE PICKS, MELON BALLERS; ASH SIFTERS, ASH LADLES AND TONGS FOR USE AS FURNACE TOOLS; AND LAWN RAKES.

Claims use since Mar. 1, 1908.

Ser. No. 576,644. KEMODE MFG. CO., INC., New York, N. Y. Filed Apr. 5, 1949.

QUIK-SHOT

FOR NON-ELECTRICAL SOLDER IRONS.

Claims use since July 15, 1948.

Ser. No. 579,369. WILLIAM E. BADER, doing business as Chief Mfg. Co., Omaha, Nebr. Filed May 23, 1949.

VAL-A

FOR HAND-OPERATED GLUE DISPENSING MACHINES FOR USE IN LABELING.

Claims use since May 11, 1949.

Ser. No. 580,400. JOHN N. BURLEW AND NONA LA VON BURLEW, Portland, Oreg. Filed June 14, 1949.

SHOEMASTER

FOR WORK BENCH FOR SHOE REPAIRING.

Claims use since Mar. 15, 1948.

Ser. No. 580,498. NATIONAL SILVER COMPANY, New York, N. Y. Filed June 15, 1949.

DRAMA

FOR STAINLESS STEEL TABLE CUTLERY—NAMELY, KNIVES, FORKS, AND SPOONS.

Claims use since May 26, 1949.

Ser. No. 581,600. THE LEES-BRADNER COMPANY, Cleveland, Ohio. Filed July 7, 1949.

CRI-DAN

FOR MACHINE TOOLS—NAMELY, THREADING MACHINES.

Claims use since November 1948.

Ser. No. 581,779. TEL-E-LECT PRODUCTS, INC., Minneapolis, Minn. Filed July 11, 1949.

Tel-E-Lect

FOR POLE HOLE DIGGERS.

Claims use since Apr. 12, 1949.

Ser. No. 583,587. CHICAGO BELTING COMPANY, Chicago, Ill. Filed Aug. 17, 1949.

OLD GRIZZLY

FOR TEXTILE MACHINERY PARTS—NAMELY, LUGS, CHECK STRAPS, BUFFER STRAPS, AND HARNESS STRAPS.

Claims use since 1934.

Ser. No. 584,692. PIONEER TOOL COMPANY, INC., Bloomfield, N. J. Filed Sept. 10, 1949.

PIONEER

Applicant claims ownership of Registration No. 321,612.

FOR BANDAGE KNIVES, BURN-OFF KNIVES, CASING KNIVES, GLAZIER'S KNIVES, GLAZIER'S TOOLS, GRIDDLE SCRAPERS, HAMBURGER TURNERS, HARNESS MAKER'S KNIVES, LINOLEUM KNIVES, PAINTER'S CUTLERY, PAINTER'S ROLLERS, PAINTER'S SCRAPERS, PAPER HANGER'S ROLLERS, PUTTY CHISELS, PRUNING KNIVES, ROOFING KNIVES, SCRAPING KNIVES, WHEEL KNIVES, SOLDERING IRONS, ARTIST'S KNIVES, AWLS, BEARING SCRAPERS, BEET KNIVES, BLACKSMITH'S CHISELS, BOTTLE OPENERS, BOX SCRAPERS, BRICK CHISELS, BRICK TROWELS, BUTTER KNIVES, CABLE SPLITTING KNIVES, CAN OPENERS, CANE KNIVES, CARBON SCRAPERS, CARPENTER'S CHISELS, CARVING FORKS, CARVING TOOLS, CAULKING CHISELS, CEMENT TOOLS, COLD CHISELS, COOK'S KNIVES, CORN KNIVES, CROW BARS, ELECTRICIAN'S KNIVES, FOOD SLICERS, FORKS, GARDEN TROWELS, GRAINING COMBS, GRAPEFRUIT KNIVES, HAMMERS, HATCHETS, HUNTING KNIVES, ICE CHIPPERS, ICE PICKS, JAR OPENERS, KITCHEN KNIVES, KNIVES, MACHETES, MACHINIST'S CHISELS, MACHINIST'S SCRAPERS, PAPER HANGER'S TRIMMERS, PINCH BARS, PLASTERER'S DARBIES, PLASTERER'S TOOLS, PLASTERER'S TROWELS, POINTING TROWELS, POULTRY KNIVES, PUNCHES, PRY BARS, RAZOR BLADE KNIVES, RAZOR BLADE SCRAPERS, SCISSORS, SCREW DRIVERS, SCRIBERS, SHEARS, SPOONS, STICKING KNIVES, TACK PULLERS, TROWELS, VEGETABLE KNIVES, WOOD CHISELS, AND WRECKING BARS.

Claims use since July 1932.

Ser. No. 584,693. PIONEER TOOL COMPANY, INC., Bloomfield, N. J. Filed Sept. 10, 1949.

Applicant claims ownership of Registration No. 321,612.

FOR BANDAGE KNIVES, BURN-OFF KNIVES, CASING KNIVES, GLAZIER'S KNIVES, GLAZIER'S TOOLS, GRIDDLE SCRAPERS, HAMBURGER TURNERS, HARNESS MAKER'S KNIVES, LINOLEUM KNIVES, PAINTER'S CUTLERY, PAINTER'S ROLLERS, PAINTER'S SCRAPERS, PAPER HANGER'S ROLLERS, PUTTY CHISELS, PRUNING KNIVES, ROOFING KNIVES, SCRAPING KNIVES, WHEEL KNIVES, SOLDERING IRONS, ARTIST'S KNIVES, AWLS, BEARING SCRAPERS, BEET KNIVES, BLACKSMITH'S CHISELS, BOTTLE OPENERS, BOX SCRAPERS, BRICK CHISELS, BRICK TROWELS, BUTTER KNIVES, CABLE SPLITTING KNIVES, CAN OPENERS, CANE KNIVES, CARBON SCRAPERS, CARPENTER'S CHISELS, CARVING FORKS, CARVING TOOLS, CAULKING CHISELS, CEMENT TOOLS, COLD CHISELS, COOK'S KNIVES, CORN KNIVES, CROW BARS, ELECTRICIAN'S KNIVES, FOOD SLICERS, FORKS, GARDEN TROWELS, GRAINING COMBS, GRAPEFRUIT KNIVES, HAMMERS, HATCHETS, HUNTING KNIVES, ICE CHIPPERS, ICE PICKS, JAR OPENERS, KITCHEN KNIVES, KNIVES, MACHETES, MACHINIST'S CHISELS, MACHINIST'S SCRAPERS, PAPER HANGER'S TRIMMERS, PINCH BARS, PLASTERER'S DARBIES, PLASTERER'S TOOLS, PLASTERER'S TROWELS, POINTING TROWELS, POULTRY KNIVES, PUNCHES, PRY BARS, RAZOR BLADE KNIVES, RAZOR BLADE SCRAPERS, SCISSORS, SCREW DRIVERS, SCRIBERS, SHEARS, SPOONS, STICKING KNIVES, TACK PULLERS, TROWELS, VEGETABLE KNIVES, WOOD CHISELS, AND WRECKING BARS.

Claims use since July 1932.

Ser. No. 585,081. HOWARD H. SAMUEL, INC., Hackettstown, N. J. Filed Sept. 20, 1949.

The term "Inc." is disclaimed.
FOR POWER OPERATED SINGLE AND DOUBLE SURFACE PLANING MACHINES, THREE AND FOUR-SIDE SURFACE PLANING MACHINES, AND SELF-FEEDING SAWING MACHINES.
Claims use since Feb. 1, 1946.

Ser. No. 585,914. CHAMPION MOTORS COMPANY, Minneapolis, Minn. Filed Oct. 7, 1949.

The word "Special" is disclaimed.
FOR OUTBOARD MARINE ENGINES.
Claims use since May 23, 1949.

Ser. No. 592,367. RUSSELL A. FRAHM, doing business under the name "G-O Company," St. Louis, Mo. Filed Feb. 13, 1950.

The word "Original" is disclaimed.
FOR MECHANICAL AGRICULTURAL SPRAYING MACHINERY.
Claims use since Feb. 9, 1950.

Ser. No. 592,833. PAGE-MADDEN COMPANY, INC., Mineola, N. Y. Filed Feb. 21, 1950.

PAMACO

FOR GUIDES, PULLEYS, EYES, PIGTAILS, BUTTONS, RINGS, TENSIONS OR STEPS MADE OF CERAMIC MATERIAL, PORCELAIN, ENAMEL OR GLASS AND USED IN CONNECTION WITH TEXTILE MACHINERY, THREAD OR CORD FORMING OR WINDING MACHINERY, OR WIRE MAKING MACHINERY FOR THE PURPOSE OF GUIDING WIRES, CORDS OR THREADS.
Claims use since Jan. 13, 1950.

Ser. No. 593,162. THE CLEVELAND WORM & GEAR COMPANY, Cleveland, Ohio. Filed Feb. 28, 1950. (Sec. 2f.)

CLEVELAND

Applicant claims ownership of Registrations Nos. 272,328 and 182,385.
FOR MACHINE WORMS AND GEARS AND WORM GEAR REDUCTION UNITS.
Claims use since Feb. 5, 1913.

CLASS 24

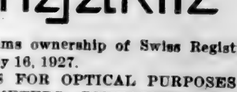
LAUNDRY APPLIANCES AND MACHINES

Ser. No. 593,251. UNITED METAL BOX CO., INC., Brooklyn, N. Y. Filed Mar. 1, 1950.

UNITED

FOR CLOTHES DRYERS.
Claims use since June 1932.

Ser. No. 593,252. UNITED METAL BOX CO., INC., Brooklyn, N. Y. Filed Mar. 1, 1950.



FOR CLOTHES DRYERS.
Claims use since June 1932.

Ser. No. 594,855. MERRITT AND ANDREE, Chicago, Ill. Filed Mar. 29, 1950.

FOR DOMESTIC WASHING MACHINES, IRONERS, AND DRIERS.
Claims use since Aug. 8, 1949.

Ser. No. 594,879. BLUEFIELD SUPPLY COMPANY, Bluefield, W. Va. Filed Mar. 30, 1950.

Laundry Chief

The word "Laundry" is disclaimed.
FOR LAUNDRY WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 597,821. THE DEXTER COMPANY, Fairfield, Iowa. Filed May 20, 1950.

Southern Maid

FOR DOMESTIC LAUNDRY APPLIANCES—NAMELY, WASHERS, IRONERS, AND DRIERS.
Claims use since Apr. 13, 1950.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 538,397. GIGANTIC, S. A., Geneva, Switzerland. Filed Oct. 20, 1947.

Gigantic

Applicant claims ownership of Swiss Registration No. 64,479, dated May 16, 1927.
FOR LENSES FOR OPTICAL PURPOSES OF ALL TYPES, BAROMETERS, COMPASSES, LORGNETTES, AND LORGNONS, MAGNIFYING GLASSES, MONOCLES, OPERA GLASSES, THERMOMETERS, OTHER THAN CLINICAL, EYE GLASS AND SPECTACLE CASES, AND CASES FOR THERMOMETERS, OTHER THAN CLINICAL.

Ser. No. 563,118. THE HAYS CORPORATION, Michigan City, Ind. Filed Aug. 10, 1948.

THERMITTER

FOR RESISTANCE THERMOMETER.
Claims use since June 1, 1947.

Ser. No. 585,825. BEEDE ELECTRICAL INSTRUMENT COMPANY, INC., Penacook, N. H. Filed Oct. 6, 1949.

The word "Beede" is disclaimed.
FOR ELECTRIC METERS.
Claims use since Aug. 26, 1949.

Ser. No. 591,398. WILLIAM M. BARRET, INC., Shreveport, La. Filed Jan. 25, 1950.

FOR ELECTRICAL AND GEOPHYSICAL APPARATUS—NAMELY, TRANSMITTING APPARATUS, RECEIVING APPARATUS, ELECTRONIC AMPLIFIERS, AND INDICATING METERS FOR MAKING ELECTRICAL SURVEYS FOR THE LOCATION OF GOLD AND OTHER METALLIFEROUS ORES.
Claims use since Sept. 3, 1948.

Ser. No. 592,325. KELLY PHOTO SUPPLY, Chicago, Ill. Filed Feb. 11, 1950.

FOR PHOTOGRAPHIC CAMERAS, LENSES, AND CAMERA CARRYING CASES.
Claims use since Nov. 28, 1949.

Ser. No. 592,880. COLEMAN INSTRUMENTS, INC., Maywood, Ill. Filed Feb. 23, 1950.

CHEMPUTER

FOR COMPUTING RULES.
Claims use since July 1, 1949.

Ser. No. 593,136. ARCH F. MUNTER, doing business under the name and style of The American Paulin System, Los Angeles, Calif. Filed Feb. 27, 1950.

The words "Surveying" and "Altimeter" are disclaimed.
FOR ALTIMETERS AND BAROMETERS.
Claims use since Jan. 17, 1950.

Ser. No. 593,452. VICTORY OPTICAL MANUFACTURING CO., Newark, N. J. Filed Mar. 4, 1950.

V-SET

FOR SPECTACLE FRAMES MADE OF PLASTIC MATERIAL.
Claims use since Oct. 13, 1949.

Ser. No. 593,465. THE BORG-ERICKSON CORPORATION, Chicago, Ill. Filed Mar. 6, 1950. (Sec. 2f.)

BORG

FOR BATHROOM SCALES.
Claims use since Oct. 1, 1936.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 555,422. MEYER JEWELRY COMPANY, Kansas City, Mo. Filed Apr. 23, 1948.

HARMONY

Applicant claims ownership of Registration No. 438,245.
FOR JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES—NAMELY, FINGER RINGS, BRACELETS, BROOCHES, NECKLACES, EARRINGS, PENDANTS, BAR PINS, STUDS, CUFF BUTTONS, TIE HOLDERS, AND COLLAR HOLDERS, ALL MADE OF, OR PLATED WITH, OR FILLED WITH, OR MOUNTED IN SETTINGS OF, SILVER, GOLD, PLATINUM, OR OTHER PRECIOUS METALS.
Claims use since Nov. 3, 1942.

Ser. No. 584,022. THEODORE SPECTOR, doing business as Metro Leather Products Company, New York, N. Y. Filed Aug. 25, 1949.

FOR LEATHER WATCH STRAPS.
Claims use since July 28, 1949.

Ser. No. 535,491. HERMANOS ROSENBERGER, Caracas, Venezuela. Filed Sept. 9, 1949.

ANONA

The representation of a cut stone is disclaimed.
FOR COSTUME JEWELRY.
First used on June 15, 1949, in Caracas, Venezuela; and first used in commerce between Venezuela and the United States which may lawfully be regulated by Congress on June 15, 1949.

Ser. No. 586,524. CORO, INC., New York, N. Y. Filed Oct. 19, 1949.

Millionears

FOR EARRINGS.
Claims use since September 1949.

Ser. No. 592,416. RAYMOND BRENNER INC., also trading as Raymond Brenner, Youngstown, Ohio. Filed Feb. 14, 1950.

The Cellar Shops

The words "The" and "Shops" are disclaimed.
FOR STERLING SILVERWARE AND SILVER-PLATED HOLLOWWARE, FLATWARE, AND TABLE CUTLERY.
Claims use since Aug. 29, 1949.

Ser. No. 592,512. NATIONAL SILVER COMPANY, New York, N. Y. Filed Feb. 15, 1950.

CLAUDIA

FOR SILVERPLATED FLATWARE.
Claims use since Jan. 3, 1950.

Ser. No. 592,807. GRANAT BROS., San Francisco, Calif. Filed Feb. 21, 1950.

Bow-Knot

Applicant claims ownership of Registration No. 274,309.
FOR ARTICLES OF JEWELRY FOR PERSONAL WEAR AND ADORNMENT—NAMELY, FINGER RINGS.
Claims use since Mar. 1, 1930.

Ser. No. 593,070. GRANAT BROS., San Francisco, Calif. Filed Feb. 25, 1950.

Lily of the Valley

Applicant claims ownership of Registration No. 298,346.
FOR ARTICLES OF JEWELRY FOR PERSONAL WEAR AND ADORNMENT—NAMELY, FINGER RINGS.
Claims use since Jan. 2, 1932.

Ser. No. 593,383. WEINREICH BROTHERS COMPANY, New York, N. Y. Filed Mar. 3, 1950.

LE PARADIS

FOR PEARL NECKLACES, PEARL EARRINGS, PEARL BRACELETS, PEARL BROOCHES, AND STRINGS OF PEARLS.
Claims use since July 1935.

Ser. No. 593,439. A. H. POND CO., INC., Syracuse, N. Y. Filed Mar. 4, 1950.

Crescent

FOR DIAMOND RINGS, DIAMOND WEDDING RINGS, AND CARVED WEDDING RINGS.
Claims use since July 21, 1949.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 583,826. ROBERT F. SMETTS, doing business as Pacific Mops Products, Oakland, Calif. Filed Aug. 22, 1949.

Swabby

FOR MOPS.
Claims use since July 12, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 553,261. BASTIAN-MORLEY CO., INC., La Porte, Ind. Filed Mar. 29, 1948. (Sec. 2f.)

SUPERIOR

FOR GAS WATER-HEATERS.
Claims use since Feb. 28, 1912.

Ser. No. 562,995. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Aug. 7, 1948.

DIAFUSE

FOR ILLUMINATION EQUIPMENT — NAMELY, GLASS LAMP PANELS, SCREENS, GLOBES, REFLECTORS, AND REFRACTORS.
Claims use since July 28, 1948.

Ser. No. 568,026. CHAMBERS CORPORATION, Shelbyville, Ind. Filed Nov. 2, 1948.

THERMOWELL

FOR COOKING AND HEATING UNIT BUILT INTO A GAS RANGE AND FORMING AN INTEGRAL PART THEREOF.
Claims use since Dec. 2, 1931.

Ser. No. 568,027. CHAMBERS CORPORATION, Shelbyville, Ind. Filed Nov. 2, 1948.

Thermowell

FOR COOKING AND HEATING UNIT BUILT INTO A GAS RANGE AND FORMING AN INTEGRAL PART THEREOF.
Claims use since Dec. 2, 1931.

Ser. No. 580,875. THE COLEMAN COMPANY, INC., Wichita, Kans. Filed June 22, 1949.

BLU-ARCH

FOR GAS BURNERS, FLOOR FURNACES, WATER HEATERS, HOT AIR FURNACES, AND WALL HEATERS.
Claims use since Mar. 29, 1949.

Ser. No. 581,064. THE GRISCOM RUSSELL COMPANY, New York, N. Y. Filed June 25, 1949.

LK-FIN

Applicant disclaims any exclusive right to the word "Fin." Applicant claims ownership of Registrations Nos. 184,863, 255,506, and others.
FOR PIPES AND TUBING OF COPPER, ALUMINUM, IRON, STEEL, AND OTHER METALS, PROVIDED WITH HEAT-RADIATING FINS.
Claims use since May 1, 1949.

Ser. No. 581,579. ANEMOSTAT CORPORATION OF AMERICA, New York, N. Y. Filed July 7, 1949.

ANEMOSTAT

Applicant claims ownership of Registration No. 303,180.
FOR AIR AND GAS OUTLET AND DIFFUSING UNITS FOR VENTILATING APPARATUS.
Claims use since September 1931.

Ser. No. 581,763. THE FOREST CITY FOUNDRIES COMPANY, Cleveland, Ohio. Filed July 11, 1949. (Sec. 2f.)

NIAGARA

Applicant claims ownership of Registration No. 272,334.
FOR WARM AIR FURNACES OF THE GRAVITY CIRCULATION AND FORCED CIRCULATION TYPES.
Claims use since Jan. 1, 1902.

Ser. No. 582,318. LEO C. PELKUS, doing business as Commonwealth Electric and Manufacturing Co., Boston, Mass. Filed July 21, 1949.

COMM-O-LECTRIC

The expression "Lectric" is disclaimed.
FOR STEAM GENERATORS.
Claims use since 1932.

Ser. No. 584,956. ROBERT R. ABRAMS, doing business as Aqua-Sorb Company, East Orange, N. J. Filed Sept. 17, 1949.

Aqua-Sorber

The prefix "Aqua" is disclaimed.
FOR DEHUMIDIFICATION UNITS.
Claims use since Mar. 13, 1939.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 559,426. PERMO INCORPORATED, Chicago, Ill. Filed Mar. 17, 1948.

MICROSPECT

Applicant claims ownership of Registration No. 377,359.
FOR PHONOGRAPH NEEDLES.
Claims use since Nov. 16, 1939.

CLASS 37

PAPER AND STATIONERY

Ser. No. 528,566. GERMAIN SEED AND PLANT COMPANY, Los Angeles, Calif. Filed July 14, 1947.

Germāco

FOR PAPER TENTS, COMMONLY CALLED PLANT PROTECTORS.
Claims use since June 15, 1922.

Ser. No. 552,343. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Dec. 13, 1947. (Sec. 2f.)

Strathmore Bond Multicopy

The word "Bond" is disclaimed. Applicant claims ownership of Registrations Nos. 316,917 and 29,613.
FOR ALL KINDS OF WRITING AND PRINTING PAPER.
Claims use since Jan. 1, 1922.

Ser. No. 579,287. NORCROSS, INC., New York, N. Y. Filed May 21, 1949.

Norchrome

FOR GIFT WRAPPINGS.
Claims use since Apr. 25, 1949.

Ser. No. 579,553. PEAVEY PAPER MILLS, INC., Ladysmith, Wis. Filed May 26, 1949.

WHITE Sail

FOR ROLL TOILET TISSUE, PAPER TOWELS, AND NAPKINS.
Claims use since Sept. 10, 1936.

Ser. No. 580,214. TOBEY FINE PAPERS INC., St. Louis, Mo. Filed June 9, 1949.

ETCHTONE BOOK

The word "Book" is disclaimed.
FOR PRINTING BOOK PAPER.
Claims use since Aug. 6, 1947.

Ser. No. 580,215. TOBEY FINE PAPERS, INC., St. Louis, Mo. Filed June 9, 1949.

PLATONE BOOK

The word "Book" is disclaimed.
FOR PRINTING BOOK PAPER.
Claims use since Aug. 25, 1948.

Ser. No. 580,593. HOLLINGSWORTH & WHITNEY COMPANY, Boston, Mass. Filed June 16, 1949.

COPY-CREST

The term "Copy" is disclaimed.
FOR BOND, MIMEOGRAPH, AND CONVERTING PAPERS.
Claims use since Feb. 11, 1938.

Ser. No. 585,598. MILWAUKEE LACE PAPER COMPANY, Milwaukee, Wis. Filed Sept. 30, 1949.

Dynettes

FOR PAPER DOILIES AND PLACE MATS.
Claims use since June 1, 1949.

Ser. No. 585,684. ROCKMONT ENVELOPE CO., Denver, Colo. Filed Oct. 1, 1949.

HOUSEHOLD HELPER

FOR MAILING AND CORRESPONDENCE ENVELOPES.
Claims use since June 2, 1948.

Ser. No. 590,011. CURTIS 1000, INCORPORATED, St. Paul, Minn., and Hartford, Conn. Filed Dec. 28, 1949.

"IDENTI-POST"

FOR MAILING ENVELOPES OF PAPER.
Claims use since Dec. 16, 1949.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 583,247. THE COUNTRYMAN LIMITED, London, England. Filed Aug. 10, 1949.

THE COUNTRYMAN

Applicant claims ownership of British Registration No. 670,552, dated June 22, 1948.
FOR PRINTED PERIODICAL.

Ser. No. 585,558. BADGER DECALCOMANIA COMPANY, Milwaukee, Wis. Filed Sept. 30, 1949.

The stippling and lining on the drawing are for shading only.
FOR DECALCOMANIA OR TRANSFER LABELS MADE TO CUSTOMERS' SPECIFICATIONS FOR USE ON VARIOUS GOODS.
Claims use since Aug. 19, 1949.

Ser. No. 586,022. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 8, 1949.

SOCONY-VACUUM NEWS

The word "News" is disclaimed.
FOR PERIODICAL.
Claims use since Feb. 1, 1935.

Ser. No. 587,384. HILLMAN PERIODICALS, INC., New York, N. Y. Filed Nov. 5, 1949.

MR. ANTHONY'S LOVE CLINIC

The words "Love" and "Anthony" are disclaimed. The name "Mr. Anthony," is that of "John J. Anthony," and consent is given.
FOR COMIC MAGAZINE PUBLISHED MONTHLY.
Claims use since Oct. 5, 1949.

Ser. No. 588,274. CLAYTER CORPORATION, New York, N. Y. Filed Nov. 25, 1949.

"PLASTICKER"

FOR ADVERTISING STICKERS FOR USE ON WINDOWS OR OTHER SMOOTH SURFACES.
Claims use since Sept. 19, 1949.

Ser. No. 588,349. WORLD EDITIONS, INC., New York, N. Y. Filed Nov. 25, 1949.

knit-knacks

The word "Knit" is disclaimed.
FOR PERIODICAL PUBLICATIONS.
Claims use since Nov. 4, 1949.

CLASS 39

CLOTHING

Ser. No. 537,748. BEN-SOLNIT, doing business as Solnit Shoe Co., Los Angeles, Calif. Filed Oct. 13, 1947.

Hollywood SCREEN STAR

Applicant claims ownership of Registration No. 246,339.
FOR WOMEN'S SHOES OF LEATHER, AND COMBINATIONS OF LEATHER AND FABRIC.
Claims use since Oct. 24, 1927.

Ser. No. 538,911. HICKEY-FREEMAN COMPANY, Rochester, N. Y. Filed Oct. 24, 1947. (Sec. 2f as to the word "Cameron.")

Clan Cameron

Applicant claims ownership of Registration No. 252,281.
FOR MEN'S TOPCOATS AND OVERCOATS.
Claims use since Aug. 4, 1928.

Ser. No. 542,731. HASPEL BROTHERS, INC., New Orleans, La. Filed Oct. 20, 1947.

BOMBAY

Applicant claims ownership of Registration No. 289,883.
FOR MEN'S CLOTHING—NAMELY, COATS, PANTS, AND VESTS.
Claims use since Jan. 2, 1925.

Ser. No. 545,751. MIDLAND SHOE CORPORATION OF NEW York, New York, N. Y. Filed Dec. 30, 1947.

MEDI-CROSS "MAGIC COMFORT" MITERD heel...

The words "Magic Comfort" and "Miterd Heel," as well as the representation of the caduceus are disclaimed.
FOR SHOES FOR INFANTS, CHILDREN, MISSES, GROWING GIRLS, AND WOMEN.
Claims use since 1943.

Ser. No. 552,389. THE HECHT COMPANY, Washington, D. C. Filed Dec. 30, 1947. (Sec. 2f.)

KORDORY

Applicant claims ownership of Registration No. 397,640.
FOR BOYS' CLOTHING—NAMELY, SUITS, INCLUDING COATS, VESTS, TROUSERS, TOPCOATS, OVERCOATS, AND JACKETS.
Claims use since June 23, 1941.

Ser. No. 568,686. ARTHUR I. STEPHENS, Chicago, Ill. Filed Nov. 12, 1948.

HUSTLERS

FOR HOSIERY.
Claims use since Oct. 30, 1948.

Ser. No. 571,746. RIEGEL TEXTILE CORPORATION, New York, N. Y. Filed Jan. 6, 1949.

LANCER

Applicant claims ownership of Registration No. 347,971.
FOR WORK GLOVES COMPOSED OF A COMBINATION OF LEATHER AND FABRIC.
Claims use since Mar. 10, 1941.

Ser. No. 579,519. SKAMPERETTE CO., New York, N. Y. Filed May 25, 1949.

SKAMPERETTE

PAN-T-TUNES

FOR LADIES' AND CHILDREN'S UNDERWEAR, CONSISTING OF BLOOMERS, PANTIES, SLIPS, NIGHTGOWNS, VESTS, AND COMBINATIONS OF VEST AND BLOOMERS.
Claims use since Jan. 11, 1949.

Ser. No. 580,518. SANFORD HOSIERY MILLS, INC., Sanford, N. C. Filed June 15, 1949.

PANORAMIQUE

FOR LADIES' HOSIERY.
Claims use since June 7, 1949.

Ser. No. 585,495. GINSBURG MFG. CO. INC., New York, N. Y. Filed Sept. 15, 1949.

for Better Value

The words "for Better Value" are disclaimed.
FOR LADIES' SLIPS, PETTICOATS, BLOUSES, POLO SHIRTS, SKIRTS, BED JACKETS, HALTERS, AND BRASSIÈRES.
Claims use since Feb. 1, 1949.

Ser. No. 588,624. THE BAMBERGER-REINTHAL COMPANY, Cleveland, Ohio. Filed Dec. 1, 1949. (Sec. 2f.)

KNIT-RITE

Applicant claims ownership of Registration No. 329,876.
FOR KNITTED OUTER WEAR—NAMELY, SWEATERS FOR LADIES, MISSES, MEN, BOYS, INFANTS, JUVENILES, AND DRESSES FOR MISSES AND LADIES.
Claims use since June 1933.

Ser. No. 588,753. DUET HOSIERY CORP., New York, N. Y. Filed Dec. 8, 1949.

TWINSET

FOR HOSIERY.
Claims use since Nov. 29, 1949.

Ser. No. 589,063. GENE BART INC., New York, N. Y. Filed Dec. 9, 1949.

Gene Bart

The name "Gene Bart" is fictitious and does not refer to any known individual. Applicant claims ownership of Registration No. 408,668.
FOR LADIES' BLOUSES, SHIRTWAISTS, AND DRESSES.
Claims use since Apr. 10, 1943.

Ser. No. 589,287. WEBER AND HEILBRONER, INC., New York, N. Y. Filed Dec. 13, 1949. (Sec. 2f.)

Weber and Heilbroner

FOR SUITS, TOPCOATS, OVERCOATS, SPORT COATS, TROUSERS, SLACKS, OUTER AND UNDER SHIRTS, UNDERWEAR, HOSIERY, SHOES, AND NECKTIES FOR MEN AND BOYS, AND SUITS, COATS, BLOUSES, DRESSES, HOSIERY, AND SHOES FOR WOMEN AND GIRLS.
Claims use since 1913.

Ser. No. 589,494. F. W. WOOLWORTH CO., New York, N. Y. Filed Dec. 16, 1949.

The drawing is lined for the colors black and gold.
FOR HOSIERY.
Claims use since 1922.

Ser. No. 589,642. DEERING, MILLIKEN & COMPANY, INC., New York, N. Y. Filed Dec. 20, 1949.

CARRIAGE TRADE

Applicant claims ownership of Registration No. 443,486.
FOR DIAPERS MADE OF COTTON.
Claims use since Oct. 14, 1947.

Ser. No. 595,024. L. WOHL & COMPANY, INCORPORATED, New York, N. Y. Filed Mar. 31, 1950.

"Reading, Riting, and Rithmetic"

FOR CHILDREN'S DRESSES, PLAYSUITS, BLOUSES, AND PINAFORES.
Claims use since Mar. 10, 1950.

Ser. No. 595,159. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 3, 1950.

Co-Ed

Applicant claims ownership of Registration No. 274,059.
FOR CORSETS, GIRDLES, FOUNDATION GARMENTS.
Claims use since Jan. 27, 1927.

Ser. No. 595,676. THE NEATFORM CO., INC., New York, N. Y. Filed Apr. 13, 1950.

Panelure

FOR FOUNDATION GARMENTS, CORSETS, AND GIRDLES.
Claims use since March 1950.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 570,103. GAYLORD PRODUCTS, INCORPORATED, Chicago, Ill. Filed Dec. 7, 1948. (Sec. 2f.)

The drawing is lined for red.
FOR BOBBY PINS AND HAIRPINS.
Claims use since 1929.

Ser. No. 583,638. SAMUEL CITRON, doing business as Priscilla Rug Products, Boston, Mass. Filed Aug. 18, 1949.

Priscilla

FOR RUG MAKING MATERIALS IN THE FORM OF CLOTH STRIPS.
Claims use since Nov. 30, 1946.

Ser. No. 592,705. GALE A. HUGHES, Los Angeles, Calif. Filed Feb. 18, 1950.

Troosies

FOR BREAST AUGMENTING PADS.
Claims use since Oct. 15, 1949.

Ser. No. 594,094. R. G. BARRY CORPORATION, Columbus, Ohio. Filed Mar. 17, 1950.

Barrybluffs

Applicant claims ownership of Registrations Nos. 504,701 and 510,810.
FOR BUST FORMS.
Claims use since Feb. 14, 1950.

Ser. No. 596,832. HJALMAR CARLSON, doing business as B-Gay Products Co., North Bergen, N. J. Filed May 4, 1950.

B-Gay

FOR HAIR PINS.
Claims use since Feb. 23, 1950.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 596,907. FOLDING PRODUCTS MFG. CORP., New York, N. Y. Filed May 5, 1950.

RAINBELLE

FOR UMBRELLAS.
Claims use since Apr. 26, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 526,871. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed July 5, 1947. (Sec. 2f.)

EROSIONET

Applicant claims ownership of Registration No. 378,094.
FOR TEXTILE PIECE GOODS MADE OF TWISTED PAPER FIBERS AND USED IN CONNECTION WITH SOIL TO PREVENT EROSION.
Claims use since Mar. 10, 1938.

Ser. No. 553,720. LEDERMAN BROS., Los Angeles, Calif. Filed Apr. 2, 1948.

LEDERAIN

The cross hatching and dotted areas are for shading purposes only.
FOR SPORT TOPPING, A WATERPROOF FABRIC PRINCIPALLY USED AS A COVERING FOR FOLDABLE TOPS FOR VEHICLES, CANOPIES, AND THE LIKE.
Claims use since Feb. 16, 1947.

Ser. No. 575,865. LEVINSOHN TEXTILE CO., New York, N. Y. Filed Mar. 22, 1949.

FEATHERKING

Applicant claims ownership of Registrations Nos. 436,132 and 442,876.
FOR TICKINGS AND READY-MADE PILLOW TICKS.
Claims use since Jan. 1, 1945.

CLASS 43

THREAD AND YARN

Ser. No. 597,008. SPINNERIN YARN CO., INC., South Hackensack, N. J. Filed Mar. 31, 1950.

WHIRL-KNIT

The word "Knit" is disclaimed.
FOR YARNS.
Claims use since Mar. 20, 1950.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 506,499. BLUEWATER FISHERIES LIMITED, Saint John, New Brunswick, Canada. Original filed, act of 1905, July 30, 1946; amended to application under act of 1946, Principal Register, Jan. 22, 1948.

SALTY SAM

The word "Salty" is disclaimed.
FOR CANNED FISH AND LOBSTER.
Claims use since Dec. 28, 1945; and first used in commerce between Canada and the United States which may lawfully be regulated by Congress since Dec. 28, 1945.

Ser. No. 532,396. THE CONSOLIDATED FLOUR MILLS COMPANY, Wichita, Kans. Filed Aug. 8, 1947. CONCURRENT USE with Reg. No. 170,664 for the area comprising the United States excepting the following territory, viz.: eastern Pennsylvania (covering an area of approximately two hundred miles west of New Jersey State line), New Jersey, New York, Delaware, and Maryland.

"GIBRALTAR"

FOR WHEAT FLOUR.
Claims use since December 1919.

Ser. No. 534,420. E. F. DREW & CO., INC., New York, N. Y. Filed Sept. 13, 1947.

DREW-MULSE

The word "Drew" is disclaimed.
FOR EMULSIFYING AND WHIPPING AID FOR ICE CREAM COMPOSITIONS CONTAINING DIHYDROXYALKYL GLYCERYL MONOSTEARATE SOLD ONLY IN BULK TO ICE CREAM MANUFACTURERS.
Claims use since Feb. 3, 1947.

Ser. No. 534,839. TOPPS CHEWING GUM, INCORPORATED, Brooklyn, N. Y. Filed Sept. 17, 1947.

The representation of the goods is disclaimed. The drawing is lined for shading, without limitation to any specific colors. Applicant claims ownership of Registration No. 366,911.
FOR CHEWING GUM.
Claims use since Jan. 4, 1943.

Ser. No. 540,020. ARMOUR AND COMPANY, Chicago, Ill. Filed Nov. 4, 1947.

WHITE LABEL

Exclusive right to the use of a label colored white is disclaimed.
FOR BACON AND HYDROGENATED VEGETABLE SHORTENING.
Claims use since 1908.

Ser. No. 540,301. MEADOWBROOK CANDY COMPANY, Moline, Ill. Filed Nov. 6, 1947.

The drawing is lined merely for shading purposes.
FOR CANDY.
Claims use since Oct. 18, 1947.

Ser. No. 546,303. HYGRADE FOOD PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 6, 1948.

Applicant claims ownership of Registration No. 397,978.
FOR BACON, FRANKFURTURERS, HAM, AND PORK SHOULDER.
Claims use since April 1909.

Ser. No. 547,796. VAN DUSEN HARRINGTON CO., doing business under the name King Midas Flour Mills, Minneapolis, Minn. Filed Jan. 22, 1948.

BRACER

FOR WHEAT FLOUR.
Claims use since 1920.

Ser. No. 547,798. VAN DUSEN HARRINGTON CO., doing business under the name National Milling Company, Minneapolis, Minn. Filed Jan. 22, 1948.

SUPERB

The drawing is lined to represent color but no claim is made to coloring as an essential characteristic of the mark.
FOR WHEAT FLOUR.
Claims use since May 1895.

Ser. No. 548,712. BARTON, INC., Brooklyn, N. Y. Filed Feb. 4, 1948. (Sec. 2f.)

The word "Bonbonniere" is disclaimed. The drawing is lined for the color red.
FOR CANDIES, CHOCOLATES, NUTS, AND COOKIES.
Claims use since Sept. 20, 1940.

Ser. No. 548,944. FLAKO PRODUCTS CORPORATION, New Brunswick, N. J. Filed Feb. 6, 1948.

FLAKIES

Applicant claims ownership of Registration No. 167,558.
FOR COOKIE MIX.
Claims use since Jan. 22, 1948.

Ser. No. 552,172. SMOKED PORK ROLL, INC., Philadelphia, Pa. Filed Mar. 17, 1948.

FOR SMOKED PORK ROLL.
Claims use since Mar. 11, 1948.

Ser. No. 552,173. SMOKED PORK ROLL, INC., Philadelphia, Pa. Filed Mar. 17, 1948.

Applicant disclaims the words "Smoked Pork Roll" alone.
FOR SMOKED PORK ROLL.
Claims use since Mar. 11, 1948.

Ser. No. 552,547. FLOUR MILLS OF AMERICA, INC., Kansas City, Mo., doing business as Alva Roller Mills, Alva, Okla. Filed Mar. 12, 1948.

FOR WHEAT FLOUR.
Claims use since March 1923.

Ser. No. 552,701. RALSTON PURINA COMPANY, St. Louis, Mo. Filed Mar. 22, 1948.

Chek-R-Seal

Applicant claims ownership of Registrations Nos. 256,658, 269,158, 400,769, 407,240, 407,402, and 408,564.
FOR FRESH EGGS.
Claims use since December 1942.

Ser. No. 554,684. E. B. MCGOVERN, doing business as McGovern and McGovern, Seattle, Wash. Filed Apr. 15, 1948.

SEEMAC

FOR CANNED FISH.
Claims use since Jan. 6, 1948.

Ser. No. 557,311. REUTHER'S SEA FOOD COMPANY, INC., New Orleans, La. Filed May 18, 1948.

Marvelous

FOR CANNED OYSTERS AND CANNED SHRIMPS.
Claims use since Apr. 28, 1948.

Ser. No. 558,861. CHASE CANDY COMPANY, St. Louis, Mo. Filed June 10, 1948.

it's a BOY!

FOR CANDY.
Claims use since May 19, 1948.

Ser. No. 558,862. CHASE CANDY COMPANY, St. Louis, Mo. Filed June 10, 1948.

it's a GIRL!

FOR CANDY.
Claims use since May 19, 1948.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 586,749. THE FOSTER TRADING CORPORATION, doing business as T. W. Samuels Distillery, Louisville Ky. Filed Oct. 24, 1949. (Sec. 2f as to "Samuels.")

Samuels Bond

The word "Bond" is disclaimed. Applicant claims ownership of Registrations Nos. 322,253 and 364,998.
FOR WHISKEY.
Claims use since Oct. 1, 1949, on the mark as shown; and since 1844 on the word "Samuels."

Ser. No. 587,340. MANY, BLANC & CO.; INC., Chicago, Ill. Filed Nov. 4, 1949.

The trade-mark comprises "M B & Co" in design form. Applicant claims ownership of Registration No. 282,826.
FOR CREME DE MENTHE, CURACAO, AQUAVIT, BRANDY, ROCK AND RYE, VODKA.
Claims use since December 1933.

Ser. No. 591,675. GORDON-O'NEILL CO., doing business as M. Goodman Bros. Co., Jersey City, N. J. Filed Jan. 30, 1950. (Sec. 2f.)

GOODMAN'S

FOR DRIED PRUNE BRANDY (SLIVOVITZ).
Claims use since Feb. 26, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 534,550. THE PANTASOTE CORPORATION OF NEW JERSEY, New York, N. Y., assignor to The Pantasote Co., New York, N. Y. Filed Sept. 15, 1947.

LIFEWALL

FOR PLASTIC MATERIAL IN THE NATURE OF IMITATION LEATHER SOLD IN BOLTS AND SHEETS FOR USE IN UPHOLSTERY AND WALL COVERING.
Claims use since June 1947.

Ser. No. 588,462. SPIEGEL, INC., Chicago, Ill. Filed Nov. 28, 1949.

Brooklure

FOR TENTS.
Claims use since January 1942.

Ser. No. 588,539. JENNIE E. WILSCHKE, doing business under the name Nita Studios, Cos Cob, Conn. Filed Nov. 29, 1949.

SILLIPET

FOR CERAMIC FIGURES INCLUDING ANIMALS, PEOPLE, AND OTHER OBJECTS ATTIRED IN FANCY HATS AND/OR TRAPPINGS AND/OR PIECES OF CLOTHING, ALL OF WHICH ARE MOULDED IN CERAMICS, EITHER AFFIXED THERETO OR DETACHABLE.
Claims use since Nov. 7, 1948.

Ser. No. 589,649. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed Dec. 20, 1949. (Sec. 2f.)

PEERLESS

Applicant claims ownership of Registration No. 386,367.
FOR FLORAL STICKS.
Claims use since Dec. 20, 1939.

Ser. No. 590,232. FRANK P. MITTEN, Redlands, Calif. Filed Dec. 31, 1949.

TEMPAR

FOR FONT ASSORTMENTS OF LETTERS AND FIGURES AND ILLUSTRATING ACCESSORIES FOR USE IN MAKING UP CHANGEABLE OR PERMANENT SIGNS.
Claims use since January 1937.

Ser. No. 591,039. LEAHY MANUFACTURING CO., Higginsville, Mo. Filed Jan. 18, 1950. (Sec. 2f.)

The word "Incubator" is disclaimed. Applicant claims ownership of Registration No. 177,590.
FOR INCUBATORS AND BROODERS.
Claims use since January 1905.

Ser. No. 591,671. FINE ARTS STERLING SILVER COMPANY, Philadelphia, Pa. Filed Jan. 30, 1950.

tiny diner

FOR HOLDERS FOR CHILDREN IN THE DESIGN OF AN ELEPHANT FOR HOLDING A MUG, A FORK, AND A SPOON WHICH ARE SOLD THEREWITH.
Claims use since Jan. 24, 1949.

Ser. No. 593,973. CERTIFIED DRY MAT CORPORATION, New York, N. Y. Filed Mar. 15, 1950.

MANOMAT

FOR MATRIX, DRY MAT, OR BOARD USED IN STEREOTYPING OR ELECTROTYPING.
Claims use since May 5, 1949.

Ser. No. 594,280. WILLIAM L. PARRY, Glendale, Calif. Filed Mar. 20, 1950.

MINICLOTHES

FOR ARTICLES REPRESENTING GIFTS OF MEN'S AND WOMEN'S WEAR SUCH AS SUITS, COATS, AND SLACKS AND DISTRIBUTED IN CONNECTION WITH GIFT CERTIFICATES.
Claims use since Sept. 15, 1949.

Ser. No. 595,060. CANVAS SPECIALTY COMPANY, New York, N. Y. Filed Apr. 1, 1950.

Applicant claims ownership of Registration No. 171,623.
FOR PROTECTIVE COVERS AND PADS USED IN MOVING FURNITURE, AND PAINTERS' DROP CLOTHS.
Claims use since Jan. 1, 1923.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 539,558. PEAU D'OR SALES CORPORATION, Miami, Fla. Filed Oct. 30, 1947. CONCURRENT USE with Reg. No. 416,858 for the area comprising all the States located east of the Mississippi River.

Lanotan

The figure of the girl on the drawing is fanciful.
FOR SUN TAN CREAM AND SUN TAN LIQUID.
Claims use since December 1944.

Ser. No. 573,415. THE F. W. FITCH COMPANY, Des Moines, Iowa, assignor to The Grove Laboratories, Inc., St. Louis, Mo., a corporation of Delaware. Filed Feb. 7, 1949. (Sec. 2f.)

Fitch

Applicant claims ownership of Registrations Nos. 69,936 and 516,740.
FOR HAIR TONIC AND A PREPARATION FOR SETTING WAVES, USED IN DRESSING THE HAIR.
Claims use since 1893.

Ser. No. 577,183. GERMAINE MONTEIL COSMETIQUES CORPORATION, New York, N. Y. Filed Apr. 15, 1949.

SUPERSEC

FOR DEODORANT PREPARATION FOR MEN AND WOMEN, NOT MEDICATED.
Claims use since Apr. 12, 1949.

Ser. No. 585,743. CHANEL, INC., New York, N. Y. Filed Oct. 4, 1949.

BOIS DES ILES

The English translation of "Bois Des Iles" is "Wood of the Isles." Applicant claims ownership of Registration No. 525,716.
FOR PERFUME.
Claims use since February 1929.

Ser. No. 588,586. JOHN HUDSON MOORE, INC., New York, N. Y. Filed Nov. 30, 1949.

AIRLITE

FOR KITS CONTAINING TOILET ARTICLES FOR MEN, COMPRISING THE ITEMS OF COLOGNE, AFTER-SHAVING LOTION, HAIR LOTION, TALCUM POWDER, BAY RUM, PERSONAL USE DEODORANT, FOOT POWDER, INSECT REPELLANT, AND SUN-SCREEN LOTION.
Claims use since Nov. 17, 1949.

Ser. No. 588,588. JOHN HUDSON MOORE, INC., New York, N. Y. Filed Nov. 30, 1949.

BRIEFER

FOR KITS CONTAINING TOILET ARTICLES FOR MEN, COMPRISING THE ITEMS OF COLOGNE, AFTER-SHAVE LOTION, HAIR LOTION, TALCUM POWDER, BAY RUM, PERSONAL USE DEODORANT, FOOT POWDER, INSECT REPELLANT, AND SUN-SCREEN LOTION.
Claims use since Nov. 17, 1949.

Ser. No. 588,589. JOHN HUDSON MOORE, INC., New York, N. Y. Filed Nov. 30, 1949.

SPORTLITE

FOR KITS CONTAINING TOILET ARTICLES FOR MEN, COMPRISING THE ITEMS OF COLOGNE, AFTER-SHAVING LOTION, HAIR LOTION, TALCUM POWDER, BAY RUM, PERSONAL USE DEODORANT, FOOT POWDER, INSECT REPELLANT, AND SUN-SCREEN LOTION.
Claims use since Nov. 17, 1949.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 567,351. SHEFFIELD BRONZE PAINT CORPORATION, Cleveland, Ohio. Filed Sept. 14, 1948. (Sec. 2f.)

KLEEN-A-BRUSH

Applicant claims ownership of Registration No. 261,684.
FOR POWDERED DETERGENT PREPARATION FOR CLEANING BRUSH BRISTLES.
Claims use since January 1926.

Ser. No. 579,778. ARMOUR AND COMPANY, Chicago, Ill. Filed June 1, 1949.

Gee

FOR CLEANSER FOR GENERAL HOUSEHOLD USE.
Claims use since Apr. 19, 1949.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 578,763. GERALD BURKE, Binghamton, N. Y. Filed May 13, 1949.

GERALD BURKE
BUSINESS COUNSELLOR

All wording except the words "Gerald Burke" is disclaimed.
FOR ACCOUNTING, AUDITING, BOOK-KEEPING, SETTING UP METHODS FOR THE KEEPING OF BOOKS BY CLIENTS, AND ADVISING CLIENTS ON ACCOUNTING MATTERS RELATING TO TAXES (NOT INCLUDING THE RENDERING OF LEGAL ADVICE).
Claims use since Apr. 8, 1948.

CLASS 104

COMMUNICATION

Ser. No. 592,137. ALLEN B. DU MONT LABORATORIES, INC., Passaic, N. J. Filed Feb. 8, 1950.

The word "Video" is disclaimed.
FOR RADIO AND TELEVISION PROGRAM BROADCASTING SERVICE.
Claims use since June 27, 1949.

CLASS 106

MATERIAL TREATMENT

Ser. No. 589,793. MARINE FABRICATORS CO., Perth Amboy, N. J. Filed Dec. 22, 1949.

MAFCO

FOR FABRICATION TO ORDER OF INDUSTRIAL STEEL PRODUCTS.
Claims use since July 1, 1949.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,296. PYROPHORIC CIGARETTE LIGHTERS AND FLINTS FOR CIGARETTE LIGHTERS. NATIONAL JEWELRY & IMPORTING CO., Winnipeg, Manitoba, Canada.
Filed Feb. 5, 1946, Serial No. 496,039. Published Aug. 1, 1950. Class 8.

444,297. ELECTRIC FANS. MASTER APPLIANCE MFG. CO., Racine, Wis.
Filed Sept. 16, 1946, Serial No. 509,156. Published May 17, 1949. Class 21.

444,298. STEERING WHEEL KNOBS AND PARTS THEREOF. JOHN D. VILLAS, Minneapolis, Minn.
Filed Oct. 9, 1946, Serial No. 510,554. Published Aug. 15, 1950. Class 19.

444,299. SKIN CREAM. ELYSEE COSMETIC MANUFACTURING CO., San Francisco, Calif.
Filed Oct. 22, 1946, Serial No. 511,269. Published July 4, 1950. Class 51.

444,300. BACTERIAL ENZYME MATERIAL COMPRISING A CULTURE OF ENZYME-PRODUCING BACTERIA ON GRANULAR SOLIDS, AN EXTRACT OF SUCH CULTURE OR A CONCENTRATE OF SUCH EXTRACT, FOR THE HYDROLYSIS OR DEGRADATION OF STARCHY AND/OR PROTEINACEOUS SUBSTANCES IN THE PRE-COOKING, CONVERSION, OR FERMENTATION OF GRAIN MASHES AND THE LIKE. JEFFREYS LABORATORIES, INCORPORATED, Salem, Va.
Filed Feb. 18, 1947, Serial No. 517,725. Published Feb. 10, 1948. Class 6.

444,301. BELT CONVEYORS. CONVEYOR SPECIALTY COMPANY, Walpole, Mass., assignor to Conveyor Specialty Company, Inc., Quincy, Mass., a corporation of Massachusetts.
Filed Mar. 4, 1947, Serial No. 518,457. Published June 6, 1950. Class 23.

444,302. DRILLING ENGINES, ENGINE PUMPS, AND PARTS USED IN THE OIL AND GAS INDUSTRY; GAS ENGINES, GASOLINE ENGINES, OIL ENGINES, STEAM ENGINES, AND PARTS FOR THE SAID VARIOUS ENGINES. AJAX IRON WORKS, Corry, Pa.
Filed Apr. 14, 1947, Serial No. 520,597. Published June 6, 1950. Class 23.

444,303. LIQUID NON-ALKALINE CLEANING PREPARATION IN THE NATURE OF A SOAP, FOR CLEANING FLOORS, WALLS, WOODWORK, AND INTERIORS OF BUILDINGS. CHEMICAL SERVICE OF BALTIMORE, doing business as The Chemical Service Company, Baltimore, Md.
Filed Apr. 28, 1947, Serial No. 521,433. Published Dec. 9, 1947. Class 52.

444,304. INSECTICIDES IN LIQUID AND POWDER FORM FOR HUMANS, ANIMALS, AND PLANTS. CENTRAL PAINT & VARNISH WORKS, INC., Brooklyn, N. Y.
Filed June 2, 1947, Serial No. 523,369. Published Aug. 8, 1950. Class 6.

444,305. THERMOPLASTIC ENAMEL FOR REPAIRING CHIPPED PORCELAIN OR ENAMELWARE. JACK C. NEWAR, doing business as Ark Laboratory, Chicago, Ill.
Filed June 2, 1947, Serial No. 523,428. Published Aug. 8, 1950. Class 16.

444,306. GASOLINE ENGINES. UEBELHOER BROTHERS, INC., Buffalo, N. Y.
Filed June 19, 1947, Serial No. 524,497. Published June 6, 1950. Class 23.

444,307. HAIR RINSE AND CONDITIONER. McBRIDE & HALL, Orange, Calif.
Filed July 1, 1947, Serial No. 525,314. Published Feb. 8, 1949. Class 51.

ACT OF 1946, PRINCIPAL REGISTER

532,992. PIPES, CIGAR HOLDERS, CIGARETTE HOLDERS, TOBACCO POUCHES, HUMIDORS, AND CIGARETTE CASES. ROGERS IMPORTS INC., New York, N. Y.
Original filed, act of 1920, Oct. 9, 1945; amended to application under act of 1946, Principal Register, July 22, 1948, Serial No. 489,686. Published Aug. 8, 1950. Class 8.

532,993. PIPES, CIGAR HOLDERS, CIGARETTE HOLDERS, TOBACCO POUCHES, HUMIDORS, AND CIGARETTE CASES. ROGERS IMPORTS INC., New York, N. Y.
Original filed, act of 1905, Oct. 9, 1945; amended to application under act of 1946, Principal Register, July 22, 1948, Serial No. 489,689. Published Aug. 8, 1950. Class 8.

532,994. WATER PUMPS, WATER SYSTEMS, AND ACCESSORIES THEREFOR—NAMELY, SHALLOW WELL PUMPS, JET PUMPS, SUMP PUMPS, PUMP JACKS, WINDMILL PUMPS, AND HAND-PUMPS. LIBERTY PRODUCTS MFG. CO. INC., Kansas City, Mo., assignee of General Finance Corporation, assignor, by mesne assignments, to Climax Engine & Pump Manufacturing Co., a corporation of Delaware.
Original filed, act of 1905, Jan. 12, 1946; amended to application under act of 1946, Principal Register, Dec. 11, 1948, Serial No. 494,670. Published July 18, 1950. Class 23.

532,995. ACOUSTICAL PUMICE USED AS AN ADDITIVE TO PLASTER, CONCRETE, BRICKS, PLASTER-BOARD, OR COMBINATIONS THEREOF. CADWALLADER W. CHURCHILL, doing business as Pacific Coast Pumice Company, Bishop, Calif.
Original filed, act of 1905, Aug. 7, 1946; amended to application under act of 1946, Principal Register, Feb. 5, 1948, Serial No. 506,983. Published July 25, 1950. Class 12.

532,996. RETAINING RINGS FOR LOCKING, SECURING AND/OR POSITIONING MOVING PARTS SUCH AS SHAFTS, GEARS, BEARINGS AND THE LIKE, AND FOR TOOLS FOR HANDLING SUCH RETAINING RINGS. WALDES KOH-I-NOOR, INC., Long Island City, N. Y.
Original filed, act of 1905, Sept. 25, 1946; amended to application under act of 1946, Principal Register, Oct. 10, 1947, Serial No. 509,747. Published Aug. 8, 1950. Class 23.

532,997. BEDS; BUNK BEDS; KITCHEN, DINING ROOM, AND LIVING ROOM CHAIRS, ETC. T. BAUMRITTER CO. INC., New York, N. Y.
Original filed, act of 1905, Oct. 31, 1946; amended to application under act of 1946, Principal Register, July 7, 1948, Serial No. 511,786. Published July 18, 1950. Class 32.

532,998. ELECTRICALLY OPERATED CREAM SEPARATORS FOR USE ON THE DAIRY FARM AND PARTS THEREOF. BABSON BROS. CO., Chicago, Ill.
Original filed, act of 1905, Apr. 10, 1947; amended to application under act of 1946, Principal Register, Aug. 5, 1947, Serial No. 520,438. Published Aug. 15, 1950. Class 21.

532,999. PLASTERERS' TOOLS—NAMELY, DARBIES AND RODS. WHA-LITE PRODUCTS, Chicago, Ill.
Original filed, act of 1905, Apr. 30, 1947; amended to application under act of 1946, Principal Register, May 13, 1950, Serial No. 521,619. Published Aug. 1, 1950. Class 23.

533,000. ELECTRICAL APPARATUS.— NAMELY, FENCE CONTROLLERS, STOCK PRODS, INSECT AND FLY TRAPS AND ELECTRIC SPACE HEATERS. INTERNATIONAL ELECTRIC CO., Chicago, Ill.
Filed July 5, 1947, Serial No. 527,176. Published July 6, 1948. Class 21.

533,001. CEREAL BREAKFAST FOOD IN THE NATURE OF WHITE FARINA CEREAL. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed July 5, 1947, Serial No. 527,373. Published June 13, 1950. Class 46.

533,002. ENAMEL PAINT READY FOR USE. MINNESOTA LINSEED OIL PAINT CO., Minneapolis, Minn., now by change of name Minnesota Paints, Inc., a corporation of Minnesota.
Filed July 5, 1947, Serial No. 527,672. Published Aug. 8, 1950. Class 16.

533,003. COMBINATION HAND FIRE EXTINGUISHER AND TIRE INFLATOR. TAYLOR ENGINEERING COMPANY, INC., Elgin, Ill.
Filed July 15, 1947, Serial No. 528,654. Published Aug. 8, 1950. Class 23.

533,004. WHEAT FLOUR. MAUSER MILL COMPANY, Treichlers, Pa.
Filed Aug. 4, 1947, Serial No. 530,412. Published June 27, 1950. Class 46.

533,005. MASTIC ASPHALTIC FLOOR PATCHING MATERIAL. ROCK-TRED CORPORATION, Chicago, Ill.
Filed Aug. 5, 1947, Serial No. 530,569. Published July 25, 1950. Class 12.

533,006. MANUALLY, ELECTRICALLY, AND HYDRAULICALLY OPERATED POWER SHEARS AND MACHINE TOOLS FOR NOTCHING THE ENDS OF PIPE AND TUBING IN THE PREPARATION OF TUBULAR JOINTS. VOGEL TOOL AND DIE CORPORATION, Chicago, Ill.
Filed Aug. 13, 1947, Serial No. 531,263. Published Aug. 8, 1950. Class 23.

533,007. CANDIES — NAMELY, ORANGE SLICES, MINT PILLOWS, CONVERSATION HEARTS, ETC. LION SPECIALTY CO., Chicago, Ill.
Filed Aug. 14, 1947, Serial No. 531,341. Published June 27, 1950. Class 46.

533,008. VARIABLE SPEED TRANSMISSIONS, VARIABLE SPEED MOTOR PULLEYS, ETC. LEWELLEN MANUFACTURING COMPANY, Columbus, Ind.
Filed Aug. 15, 1947, Serial No. 531,491. Published Aug. 8, 1950. Class 23.

533,009. DISPLAY CASE FOR NUTS AND THE LIKE. THE KELLING NUT CO., Chicago, Ill.
Filed Aug. 16, 1947, Serial No. 531,610. Published July 11, 1950. Class 32.

533,010. TYPEWRITER ATTACHMENT FOR HOLDING CARBON PAPER IN CONTINUOUS FORM STATIONARY. UARCO INCORPORATED, Chicago, Ill.
Filed Aug. 28, 1947, Serial No. 532,772. Published Aug. 1, 1950. Class 23.

533,011. ELECTRIC HOT WATER HEATERS. JUDSON J. WHITEHEAD, JR., doing business as Jud Whitehead Heater Company, Oakland, Calif.
Filed Sept. 3, 1947, Serial No. 533,218. Published Aug. 15, 1950. Class 21.

533,012. VINYL COPOLYMERS IN A WATER EMULSION STATE FOR USE IN COATINGS OF PAPER AND FABRIC PRODUCTS. H. R. GRAFF COMPANY, New York, N. Y., assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio.
Filed Sept. 4, 1947, Serial No. 533,303. Published Nov. 15, 1949. Class 6.

533,013. TOOL BITS. EUGENE S. KARLSEN, doing business under the name and style of American Engineering Steel & Tool Co., Chicago, Ill.
Filed Sept. 4, 1947, Serial No. 533,318. Published Aug. 8, 1950. Class 23.

533,014. NUTS IN THE SHELL. WM. A. CAMP CO., INC., New York, N. Y.
Filed Sept. 10, 1947, Serial No. 533,989. Published June 20, 1950. Class 46.

533,015. AUTOMOBILE SEAT COVERS. PHARES HARNISH, doing business as Esquire Custom Seat Cover Co., Wyandotte, Mich.
Filed Sept. 10, 1947, Serial No. 534,018. Published May 11, 1948. Class 19.

533,016. MACARONI, SPAGHETTI, SPAGHETTINI, AND EGG FUSILLI. ANTHONY MACARONI & CRACKER CO., Los Angeles, Calif.
Filed Sept. 19, 1947, Serial No. 534,971. Published June 13, 1950. Class 46.

533,017. CANNED PINEAPPLE. CATZ AMERICAN CO., INC., New York, N. Y.
Filed Sept. 25, 1947, Serial No. 535,681. Published June 20, 1950. Class 46.

533,018. FRESH PEACHES OF THE VARIETY EMBRACED BY UNITED STATES PLANT PATENT NO. 795. WILLIAMS & SONS, Porterville, Calif.
Filed Sept. 29, 1947, Serial No. 536,200. Published June 6, 1950. Class 46.

533,019. SPRAYING EQUIPMENT, PARTS, AND ACCESSORIES THEREFOR—NAMELY, SPRAY GUNS, ETC. THE DE VILBISS COMPANY, Toledo, Ohio.
Filed Oct. 10, 1947, Serial No. 537,432. Published June 27, 1950. Class 23.

533,020. SCREW DRIVERS AND HANDLES FOR TOOLS SUCH AS SCREW DRIVERS. NORTH BROTHERS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed Oct. 10, 1947, Serial No. 537,477. Published Mar. 21, 1950. Class 23.

533,021. SPRAY PROCESS POWDERED WHOLE MILK. GOLDEN STATE COMPANY, LTD., San Francisco, Calif.
Filed Oct. 20, 1947, Serial No. 538,402. Published June 20, 1950. Class 46.

533,022. SPRAY PROCESS NONFAT DRY MILK SOLIDS. GOLDEN STATE COMPANY, LTD., San Francisco, Calif.
Filed Oct. 20, 1947, Serial No. 538,405. Published June 20, 1950. Class 46.

533,023. MOTOR ACTUATED INNER DIAPHRAGM VALVES AND THE LIKE. FISHER GOVERNOR COMPANY, Marshalltown, Iowa.
Filed Oct. 24, 1947, Serial No. 538,899. Published Aug. 8, 1950. Class 23.

533,024. GRASS SEED. J. OLIVER JOHNSON SEED COMPANY, Chicago, Ill.
Filed Nov. 1, 1947, Serial No. 539,880. Published July 11, 1950. Class 1.

533,025. FURNITURE—NAMELY, UPHOLSTERED AND UNUPHOLSTERED CHAIRS, TABLES, SETTEES, DAVENPORTS, COUCHES, FERNERIES, ETC. HEYWOOD-WAKEFIELD COMPANY, Gardner, Mass.
Filed Nov. 1, 1947, Serial No. 540,010. Published July 11, 1950. Class 32.

533,026. GEAR CUTTING TOOLS AND BLADES THEREFOR. GLEASON WORKS, Rochester, N. Y.
Filed Aug. 2, 1947, Serial No. 540,349. Published Aug 8, 1950. Class 23.

533,027. SALT FOR STOCK FEEDING, MEAT CURING, BUTTER MAKING, COOKING, AND CANNING. MORTON SALT COMPANY, Chicago, Ill.
Filed Nov.10, 1947, Serial No. 540,697. Published June 27, 1950. Class 46.

533,028. MEAT PRODUCTS—NAMELY, LARD, MEAT LOAVES, BOLOGNA, FRANKFURTERS, LIVER SAUSAGE, HAMS, BACON, PICNICS, BACON SQUARES, PORK SAUSAGE, CANADIAN BACON, JELLIED TONGUE, SALAMI, SPICED PORK ROLL, AND HEAD CHEESE. THE THEURER NORTON PROVISION COMPANY, Cleveland, Ohio.
Filed Nov. 18, 1947, Serial No. 541,604. Published June 27, 1950. Class 46.

533,029. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. T. J. PENDERGAST WHOLESALE LIQUOR CO., INC., Kansas City, Mo.
Filed Sept. 23, 1947, Serial No. 541,741. Published Aug. 1, 1950. Class 49.

533,030. CAN OPENERS. STEEL PRODUCTS MANUFACTURING COMPANY, St. Louis, Mo., now by change of name Swing-A-Way Manufacturing Company, a corporation of Missouri.
Filed Dec. 13, 1947, Serial No. 544,300. Published Mar. 29, 1949. Class 23.

533,031. FRESH CITRUS FRUITS. OJAI ORANGE ASSOCIATION, Ojai, Calif.
Filed Dec. 20, 1947, Serial No. 545,027. Published June 27, 1950. Class 46.

533,032. DUST MOPS AND DUSTERS. GOLDEN STAR POLISH MANUFACTURING COMPANY, Kansas City, Mo.
Filed Dec. 23, 1947, Serial No. 545,246. Published Nov. 8, 1949. Class 29.

533,033. CHEESE AND BUTTER. TILLAMOOK COUNTY CREAMERY ASSOCIATION, Tillamook, Oreg.
Filed Jan. 5, 1948, Serial No. 546,251. Published June 27, 1950. Class 46.

533,034. PERFUMES, FACE CREAMS, ROUGE, BRILLIANTINE, SKIN LOTION, COLOGNE. SOCIETE ANONYME, BIENAIME, Paris, France, assignor to Bienaime, Inc., New York, N. Y., a corporation of New York.
Filed Jan. 15, 1948, Serial No. 547,157. Published July 4, 1950. Class 51.

533,035. PRINTERS' TOOLS AND EQUIPMENT—NAMELY, PLAIN AND INTERLOCKING PRINTERS' FURNITURE, ETC. HAWTHORN BAKER LIMITED, Dunstable, England.
Filed Jan. 19, 1948, Serial No. 547,452. Published July 18, 1950. Class 23.

533,036. VENTILATING STORM SASH FOR WINDOWS AND STATIONARY SASH FOR WINDOWS. CURTIS COMPANIES INCORPORATED, Clinton, Iowa.
Filed Nov. 17, 1947, Serial No. 549,365. Published July 18, 1950. Class 12.

533,037. HAIR BLEACH. THE NESTLE LE MUR COMPANY, Meriden, Conn.
Filed Feb. 12, 1948, Serial No. 549,568. Published July 25, 1950. Class 51.

533,038. PERFUME; PREPARATIONS FOR CLEANSING ARTIFICIAL TEETH, BRILLIANTINE, HAIR OIL, ETC. COMMANDITAIRE VENNOOTSCHAP PENTO COSMETIC, Amsterdam, Netherlands.
Filed Feb. 19, 1948, Serial No. 550,123. Published Nov. 15, 1949. Class 51.

533,039. LIQUID HAIR RINSE. ROUX DISTRIBUTING CO., INC., New York, N. Y.
Filed Feb. 27, 1948, Serial No. 550,741. Published Aug. 1, 1950. Class 51.

533,040. BLINDSTITCH SEWING MACHINES, NEEDLES THEREFOR AND PINKING ATTACHMENTS FOR SEWING MACHINES. LEWIS INVISIBLE STITCH MACHINE CO., St. Louis, Mo.
Filed Mar. 4, 1948, Serial No. 551,180. Published Aug. 8, 1950. Class 23.

533,041. FIELD AND GARDEN SEEDS AND SEED POTATOES; GRIT, LIME, AND POTASH; AND POULTRY CALCIUM. EASTERN STATES FARMERS' EXCHANGE, West Springfield, Mass.
Filed Mar. 5, 1948, Serial No. 551,257. Published June 27, 1950. Class 1.

533,042. WEATHER STRIPS FOR INSTALLATION ABOUT WINDOW AND DOOR FRAMES FOR THE PURPOSE OF PREVENTING THE LEAKAGE OF AIR THEREABOUT. GARDNER WIRE CO., Chicago, Ill.
Filed Mar. 13, 1948, Serial No. 551,885. Published July 18, 1950. Class 12.

533,043. FLOOR WAX. CLOVER FARM STORES CORPORATION, Cleveland, Ohio.
Filed Mar. 26, 1948, Serial No. 553,078. Published Aug. 8, 1950. Class 16.

533,044. STORAGE BATTERIES. HARRISON WHOLESALE COMPANY, Chicago, Ill.
Filed Mar. 26, 1948, Serial No. 553,107. Published Aug. 15, 1950. Class 21.

533,045. SEMI-PREPARED FOOD PRODUCTS CONSISTING OF BLENDED AMYLACEOUS SUBSTANCES CONTAINING SEASONING, SHORTENING, AND FLAVORING IN DEHYDRATED FLAKE OR CHIP FORM, ETC. SWISS AMERICAN FOOD CO., Chicago, Ill.
Filed Mar. 31, 1948, Serial No. 553,546. Published June 20, 1950. Class 46.

533,046. FRESH AVOCADOS. ETHEL R. KELLEY, doing business as Texacado Company, Mercedes, Tex.
Filed Apr. 2, 1948, Serial No. 553,712. Published June 20, 1950. Class 46.

533,047. WHISKEY. ED. PHILLIPS & SONS CO., Minneapolis, Minn.
Filed Apr. 5, 1948, Serial No. 553,899. Published Aug. 1, 1950. Class 49.

533,048. CHEMICAL MIXTURE DERIVED FROM SPENT ACIDS, EITHER LIQUID, POWDER, OR CRYSTALLINE, ADAPTED TO BE USED IN COMBINATION WITH OTHER MATERIALS FOR THE MANUFACTURE OF FERTILIZERS, TANNING AGENTS, ADHESIVES, BINDERS, AND MANY OTHER PRODUCTS. EASTERN CORPORATION, Bangor, Maine.
Filed Apr. 27, 1948, Serial No. 555,660. Published July 18, 1950. Class 6.

533,049. MACHINERY BEARINGS, BUSHINGS FOR MECHANICAL WORKING JOINTS AND MACHINE PARTS—NAMELY, PISTONS, ETC. BOUND BROOK OIL-LESS BEARING COMPANY, Bound Brook, N. J.
Filed Dec. 11, 1947, Serial No. 555,893. Published Aug. 8, 1950. Class 23.

533,050. SELF SEALING FLAT WALL PAINT. THE HARRISON PAINT AND VARNISH COMPANY, Canton, Ohio.
Filed May 12, 1948, Serial No. 556,886. Published Aug. 8, 1950. Class 16.

533,051. SNUFF. AMERICAN SNUFF COMPANY, Memphis, Tenn.
Filed May 24, 1948, Serial No. 557,651. Published Apr. 4, 1950. Class 17.

533,052. WINES. SCHENLEY DISTILLERS CORPORATION, doing business as Roma Wine Company, New York, N. Y.; said Schenley Distillers Corporation, now by change of name, Schenley Industries, Inc.
Filed Feb. 5, 1948, Serial No. 559,376. Published Aug. 1, 1950. Class 47.

533,053. ELECTRIC PANEL BOARDS AND ELECTRIC CIRCUIT BREAKERS. HEINEMANN ELECTRIC COMPANY, Trenton, N. J.
Filed July 15, 1948, Serial No. 561,466. Published June 13, 1950. Class 21.

533,054. ELECTRONIC TONE ARMS FOR PHONOGRAPHS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed July 15, 1948, Serial No. 561,499. Published Aug. 15, 1950. Class 21.

533,055. OVERHEAD TRAVELING CRANES (ELECTRIC AND HAND POWER), JIB CRANES, I-BEAM TROLLEYS, AND HAND CHAIN HOISTS. H. D. CONKEY & COMPANY, Mendota, Ill.
Filed July 30, 1948, Serial No. 562,543. Published Aug. 8, 1950. Class 23.

533,056. SALVE FOR THE TREATMENT OF OPEN SORES, CUTS, OPEN WOUNDS AND BURNS AND A CHEMICAL PREPARATION FOR USE AS A BLOOD TONIC. RUTH B. REBBECK, Paterson, N. J.
Filed Aug. 4, 1948, Serial No. 562,806. Published July 25, 1950. Class 18.

533,057. HACK SAW BLADES. THE HENRY G. THOMPSON & SON COMPANY, New Haven, Conn.
Filed Aug. 20, 1948, Serial No. 563,799. Published Aug. 1, 1950. Class 23.

533,058. PERFUMES, EAU DE COLOGNE, BATH SALTS, BATH ESSENCES AND BATH OILS, ETC. WOLFF FRERES, INC., New York, N. Y.
Filed Aug. 28, 1948, Serial No. 564,362. Published July 4, 1950. Class 51.

533,059. CANNED VEGETABLES. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn., now by change of name Green Giant Company, a corporation of Minnesota.
Filed Sept. 8, 1948, Serial No. 564,821. Published June 20, 1950. Class 46.

533,060. PREPARATION FOR CLEANING AND POLISHING GLASS, NICKEL, CHROME, METAL, ENAMEL, AND TILE SURFACES. G. E. PALMER CO., INC., Detroit, Mich.
Filed Sept. 9, 1948, Serial No. 564,892. Published Aug. 8, 1950. Class 4.

533,061. WHEAT FLOUR. PRESTON-SHAFFER MILLING COMPANY, Walla Walla, Wash., doing business as Western Milling Company, Pendleton, Oreg.
Filed Sept. 10, 1948, Serial No. 564,963. Published June 20, 1950. Class 46.

533,062. CHEESE. S. A. LATTERIE INDUSTRIALI RIUNITE L. I. R., Robbio, Lomellina, Italy.
Filed Sept. 9, 1948, Serial No. 565,150. Published June 20, 1950. Class 46.

533,063. MILL MIXED WALL PLASTER PREPARATIONS. THE CLEVELAND BUILDERS SUPPLY COMPANY, Cleveland, Ohio.
Filed Oct. 5, 1948, Serial No. 566,450. Published July 18, 1950. Class 12.

533,064. WOODWORKING MACHINE—NAMELY, A RIPPING SAW OF THE BENCH TYPE WHICH IS ELECTRICALLY POWER OPERATED. SMITHWAY MACHINE COMPANY, INC., Seattle, Wash.
Filed Oct. 15, 1948, Serial No. 567,051. Published June 6, 1950. Class 23.

533,065. FLEXIBLE COVERING OF CANVAS OR OTHER SUITABLE MATERIAL TOGETHER WITH A FRAME SUPPORT THEREFOR FOR ATTACHMENT INTEGRALLY TO THE BODY OF A TRACTOR FOR RETAINING AND CONVEYING THE ENGINE HEAT TO THE OPERATOR FOR WARMTH. D & D COMPANY, Fort Dodge, Iowa.
Filed Oct. 25, 1948, Serial No. 567,566. Published June 27, 1950. Class 23.

533,066. ROUGH AND DRESSED LUMBER AND MILLWORK. WILSON & STOKES LUMBER COMPANY, Trenton, N. J.
Filed Oct. 27, 1948, Serial No. 567,728. Published July 18, 1950. Class 12.

533,067. PORTLAND CEMENT. CUMBERLAND PORTLAND CEMENT CO., INC., Chattanooga, Tenn.
Filed Oct. 19, 1948, Serial No. 568,085. Published July 18, 1950. Class 12.

533,068. POWDERED SOAPS FOR USE IN SOAP DISPENSERS FOR CLEANSING THE HANDS. ROCHESTER GERMICIDE COMPANY, Rochester, N. Y.
Filed Nov. 4, 1948, Serial No. 568,216. Published Aug. 8, 1950. Class 52.

533,069. DRY CLEANER POWDER PREPARATION FOR USE ON DOGS AND CATS; A LIQUID PREPARATION FOR REMOVING STAINS FROM FABRICS AND TEXTILE MATERIALS CAUSED BY ANIMALS; AND SOAP. POLK MILLER PRODUCTS CORPORATION, Richmond, Va.
Filed Nov. 5, 1948, Serial No. 568,274. Published July 18, 1950. Class 52.

533,070. CUTLERY—E. G., KITCHEN KNIVES, PARING KNIVES, BUTCHER KNIVES, CARVING KNIVES, BREAD KNIVES, POCKET KNIVES, RAZOR BLADES, AND SCISSORS. MCCRORY STORES CORPORATION, New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,744. Published Aug. 1, 1950. Class 23.

533,071. EXPECTORANT MEDICINE FOR COUGHS; EYEWASH; CANKER WASH; ETC. POLK MILLER PRODUCTS CORPORATION, Richmond, Va.
Filed Nov. 16, 1948, Serial No. 568,862. Published July 18, 1950. Class 52.

533,072. FEEDS FOR POULTRY AND ANIMALS, PARTICULARLY CHICKENS, TURKEYS, SWINE, ETC. ARCHER-DANIELS-MIDLAND COMPANY, Minneapolis, Minn.
Filed Nov. 19, 1948, Serial No. 569,037. Published June 20, 1950. Class 46.

533,073. POULTRY FEEDS, PRINCIPAL INGREDIENTS THEREOF BEING: DRIED WHEY, RIBOFLAVIN SUPPLEMENT, FISH MEAL, ETC. ARCHER-DANIELS-MIDLAND COMPANY, Minneapolis, Minn.
Filed Nov. 19, 1948, Serial No. 569,039. Published June 20, 1950. Class 46.

533,074. SOAP AND LIQUID SYNTHETIC DETERGENT FOR HOUSEHOLD AND INDUSTRIAL USE. ARMOUR AND COMPANY, Chicago, Ill.
Filed Nov. 19, 1948, Serial No. 569,043. Published Aug. 8, 1950. Class 52.

533,075. CLEANSING POWDER FOR CLEANING AND POLISHING STAINLESS STEEL, COPPER, CHROME PLATED AND OTHER METAL ARTICLES, AUTOMOBILE BUMPERS, REFRIGERATORS, WASH BOWLS, SINKS, BATH TUBS, RANGES, KITCHENWARE AND THE LIKE. C C MANUFACTURING CO., Chicago, Ill.
Filed Nov. 19, 1948, Serial No. 569,080. Published Aug. 8, 1950. Class 4.

533,076. INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION—NAMELY, AUTOMOTIVE, MARINE, AND INDUSTRIAL POWER PLANTS; ETC. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich.
Filed Dec. 3, 1948, Serial No. 569,824. Published Aug. 8, 1950. Class 23.

533,077. PNEUMATIC TOOLS OPERATED BY COMPRESSED AIR, PARTICULARLY HAMMERS FOR SCALING RUST AND CORROSION FROM METAL SURFACES, AND VIBRATORS FOR SHAKING LIQUIDS AND POWDERED SUBSTANCES THROUGH SIEVES, AND THROUGH CONDUITS OR TROUGHS. WILLIAM E. DOUGHERTY, Philadelphia, Pa.
Filed Dec. 4, 1948, Serial No. 569,967. Published Aug. 8, 1950. Class 23.

533,078. INHIBITED ACID FOR REMOVING IRON AND RUST STAINS, AND FOR DISSOLVING LIME DEPOSITS AND SCALE, BOTH WITHOUT HARM TO METAL. HIGLEY CHEMICAL COMPANY, Dubuque, Iowa.
Filed Dec. 4, 1948, Serial No. 569,972. Published Aug. 8, 1950. Class 52.

533,079. ANTI-FREEZE SOLUTION FOR WINDSHIELD WASHING COMPOUND, RADIATOR CLEANING AND FLUSHING COMPOUNDS, SLUDGE AND CARBON REMOVING COMPOUNDS FOR INTERNAL COMBUSTION ENGINES, UPHOLSTERY TINT AND DYE SOLUTION, HYDRAULIC BRAKE FLUID, AND ANTI-FREEZE SOLUTION FOR RADIATORS OF INTERNAL COMBUSTION ENGINES FOR AUTOMOBILES AND THE LIKE. PACKARD MOTOR CAR COMPANY, Detroit, Mich.
Filed Dec. 7, 1948, Serial No. 570,116. Published Aug. 8, 1950. Class 52.

533,080. ODORIFEROUS MATERIAL SUITABLE FOR USE IN PERFUMES, FLAVORS, AND THE LIKE. GIVAUDAN-DELAWANNA, INC., New York, N. Y.
Filed Dec. 9, 1948, Serial No. 570,251. Published Aug. 1, 1950. Class 6.

533,081. DISHWASHING COMPOUND. SILAS A. HESSLER, trading as Scott Detergents, Philadelphia, Pa.
Filed Dec. 9, 1948, Serial No. 570,253. Published Aug. 8, 1950. Class 52.

533,082. HAND TOOL EMBODYING AN ELECTRIC MOTOR PROVIDED WITH A CHUCK FOR DETACHABLY AND SELECTIVELY RECEIVING WORKING TOOLS—NAMELY, DRILLS AND GRINDERS. MASTER APPLIANCE MFG. CO., Racine, Wis.
Filed Dec. 11, 1948, Serial No. 570,368. Published Aug. 15, 1950. Class 21.

533,083. NON-ALCOHOLIC MALTLESS SYRUPS, EXTRACTS, AND FRUIT SYRUPS, USED IN THE PREPARATION OF MALTLESS SOFT DRINKS. ALLIED FRUIT & EXTRACT CO., INC., New York, N. Y.
Filed Dec. 13, 1948, Serial No. 570,400. Published Aug. 1, 1950. Class 45.

533,084. MEDICINAL PREPARATION FOR PARENTERAL ADMINISTRATION BY PHYSICIANS IN THE TREATMENT OF PRIMARY AND SECONDARY ANEMIAS. VINCENT CHRISTINA & COMPANY, INC., New York, N. Y.
Filed Dec. 18, 1948, Serial No. 570,770. Published Aug. 8, 1950. Class 18.

533,085. DOUBLE ACTING PISTON PUMPS. GOULDS PUMPS, INCORPORATED, Seneca Falls, N. Y.
Filed Dec. 20, 1948, Serial No. 570,850. Published Aug. 1, 1950. Class 23.

533,086. ELECTRICAL CONNECTORS INCLUDING CORD PLUGS, ELECTRICAL OUTLETS INCLUDING CORD RECEPTACLES, LAMP SOCKETS, AND SWITCHES. ACADEMY ELECTRICAL PRODUCTS CORP., New York, N. Y.
Filed Dec. 22, 1948, Serial No. 570,936. Published Aug. 15, 1950. Class 21.

533,087. MEDICINAL PREPARATION FOR THE RELIEF OF PAIN, ETC. ROBERT L. GADDY, doing business as R. L. Gaddy, Pharmacist, Jacksonville, Fla.
Filed Dec. 23, 1948, Serial No. 571,025. Published Aug. 1, 1950. Class 18.

533,088. CHOCOLATE CANDIES OR AN ASSORTMENT THEREOF SOLD IN BOXES. AKTIEBOLAGET MARABOU, Sundbyberg, Sweden.
Filed Dec. 23, 1948, Serial No. 571,033. Published June 20, 1950. Class 46.

533,089. VETERINARY MEDICINES—NAMELY, LINIMENT, ANTISEPTIC OIL, ANTISEPTIC POWDER, ETC. FLEMING BROTHERS, Chicago, Ill.
Filed Dec. 27, 1948, Serial No. 571,129. Published July 25, 1950. Class 18.

533,090. PERFUME, COLOGNE, LIPSTICK, AND ROUGE, FACE AND HAND LOTION, VANISHING CREAM, COLD CREAM, FACE POWDER, COSMETIC CAKE MAKE-UP, TOILET WATER, TALCUM POWDER, AND NAIL POLISH. HOWARD S. GROVE, Los Angeles, Calif.
Filed Jan. 3, 1949, Serial No. 571,533. Published July 18, 1950. Class 51.

533,091. CIRCUIT BREAKERS, SWITCHGEAR, RELAYS, BUS RUNS, CURRENT TRANSFORMERS, POTENTIAL TRANSFORMERS, RESISTORS, AND RECTIFIERS. I-T-E CIRCUIT BREAKER COMPANY, Philadelphia, Pa.
Filed Jan. 11, 1949, Serial No. 571,970. Published Aug. 15, 1950. Class 21.

533,092. CIRCUIT BREAKERS, SWITCHGEAR, RELAYS, BUS RUNS, CURRENT TRANSFORMERS, POTENTIAL TRANSFORMERS, RESISTORS, AND RECTIFIERS. I-T-E CIRCUIT BREAKER COMPANY, Philadelphia, Pa.
Filed Jan. 11, 1949, Serial No. 571,971. Published Aug. 15, 1950. Class 21.

533,093. ELECTRICAL FRICTION TAPE AND SPLICING COMPOUND (RUBBER INSULATING TAPE). PARR ELECTRIC CO., INC., Newark, N. J.
Filed Jan. 12, 1949, Serial No. 572,052. Published Aug. 8, 1950. Class 21.

533,094. APPARATUS FOR MECHANICALLY REMOVING BREAD AND LIKE FOOD STUFFS FROM PANS. THE PETERSEN OVEN COMPANY, Franklin Park, Ill.
Filed Jan. 15, 1949, Serial No. 572,268. Published June 6, 1950. Class 23.

533,095. CRAWLER-TYPE TRACTORS. U. S. TRACTOR CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed Jan. 21, 1949, Serial No. 572,537. Published June 6, 1950. Class 23.

533,096. SPATULAS. DAND PRODUCTS COMPANY, Chicago, Ill.
Filed Jan. 25, 1949, Serial No. 572,727. Published June 6, 1950. Class 23.

533,097. HORMONE CREAM. VALGRADE, INC., New York, N. Y.
Filed Jan. 28, 1949, Serial No. 573,015. Published July 18, 1950. Class 51.

533,098. HAIR TONICS. FRANK B. ERWIN, doing business under the firm name of Toupe Laboratories, Deerfield, Ill.
Filed Feb. 5, 1949, Serial No. 573,367. Published July 4, 1950. Class 51.

533,099. ORGANIC PLASTICIZER FOR RESINS AND RUBBERS. ARGUS CHEMICAL LABORATORY, INC., Brooklyn, N. Y.
Filed Feb. 10, 1949, Serial No. 573,603. Published Aug. 1, 1950. Class 6.

533,100. TRANSPARENT AND COLORED BAKING ENAMELS. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed Feb. 12, 1949, Serial No. 573,774. Published Aug. 8, 1950. Class 16.

533,101. BREATHING OR REBREATHING APPARATUS FOR THE ADMINISTRATION OF PENICILLIN AEROSOL OR OTHER ANTI-BIOTIC AEROSOLS AND REPLACEMENT PARTS THEREFOR. VAPONEFRIN COMPANY, Portland, Oreg., and elsewhere.
Filed Feb. 16, 1949, Serial No. 573,999. Published July 25, 1950. Class 44.

533,102. INSECTICIDES AND AGRICULTURAL FUNGICIDES. CENTRAL CHEMICAL CORPORATION, Hagerstown, Md.
Filed Feb. 17, 1949, Serial No. 574,016. Published Aug. 1, 1950. Class 6.

533,103. REFRACTORY TILES AND BRICKS FOR FURNACES. LACLEDE-CHRISTY COMPANY, St. Louis, Mo.
Filed Feb. 28, 1949, Serial No. 574,627. Published July 4, 1950. Class 12.

533,104. PHOTOGRAPHIC PRINTS. PHOTOCHART, Hollywood, Calif.
Filed Mar. 1, 1949, Serial No. 574,726. Published Aug. 8, 1950. Class 38.

533,105. SEAMLESS STEEL TUBING. THE OHIO SEAMLESS TUBE COMPANY, Shelby, Ohio.
Filed Mar. 3, 1949, Serial No. 574,855. Published Aug. 8, 1950. Class 13.

533,106. ELECTRICAL APPARATUS EMITTING ULTRA VIOLET RAYS FOR MEDICAL AND COSMETICAL PURPOSES. SUNRAY ESTABLISHMENT, Vaduz, Liechtenstein.
Filed Mar. 3, 1949, Serial No. 574,870. Published July 25, 1950. Class 44.

533,107. PREPARATION USED IN THE TREATMENT OF TRENCH MOUTH, GINGIVITIS, PYORRHEA AND IN ORAL SURGERY. PHARMACEUTICALS, INC., Los Angeles, Calif.
Filed Mar. 8, 1949, Serial No. 575,087. Published Aug. 8, 1950. Class 18.

533,108. CORN STARCH HAVING A GENERAL USE IN THE INDUSTRIAL ARTS. STEIN, HALL & COMPANY, INC., New York, N. Y.
Filed Mar. 8, 1949, Serial No. 575,097. Published Aug. 8, 1950. Class 6.

533,109. CORN STARCH HAVING A GENERAL USE IN THE INDUSTRIAL ARTS. STEIN, HALL & COMPANY, INC., New York, N. Y.
Filed Mar. 8, 1949, Serial No. 575,101. Published Aug. 8, 1950. Class 6.

533,110. STORAGE BATTERIES, BATTERY CABLES, AUTOMOBILE FUSES, SPARK PLUGS, AND RADIO RECEIVING SETS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed Mar. 14, 1949, Serial No. 575,427. Published Aug. 15, 1950. Class 21.

533,111. EXTERIOR AND INTERIOR HOUSE PAINTS, ALUMINUM ENAMEL, ALUMINUM METAL AND MASONRY PAINT FOR PAINTING EXTERIOR AND INTERIOR METAL, ETC. STEWART PAINT MANUFACTURING COMPANY, Minneapolis, Minn.
Filed Mar. 19, 1949, Serial No. 575,731. Published Aug. 8, 1950. Class 16.

533,112. SPARK PLUG COVER MADE OF RUBBER OR SYNTHETIC RUBBER. ARROWHEAD RUBBER COMPANY, Vernon, Calif.
Filed Mar. 21, 1949, Serial No. 575,747. Published Aug. 15, 1950. Class 21.

533,113. INSECTICIDE AND MOTH REPELLENT. STANDARD CHLORINE CHEMICAL CO., S. Kearny, Arlington, N. J.
Filed Mar. 23, 1949, Serial No. 575,939. Published Aug. 1, 1950. Class 6.

533,114. LIPSTICK, POWDER, POWDER BASE, ROUGE, EYE SHADOW, SHADING CREAM, MASCARA. J. DEL RUSSO, INC., New York, N. Y.
Filed Mar. 24, 1949, Serial No. 575,976. Published July 25, 1950. Class 51.

533,115. COATED ABRASIVES. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn.
Filed Mar. 26, 1949, Serial No. 576,126. Published Aug. 8, 1950. Class 4.

533,116. CONCRETE WALL FACING MATERIAL. DAVID F. CARLSON, doing business as The Imistone Company, Gobles, Mich.
Filed Mar. 29, 1949, Serial No. 576,249. Published July 4, 1950. Class 12.

533,117. PERSONAL DEODORANTS—NAMELY, CREAM DEODORANT, LIQUID CREAM DEODORANT, AND SPRAY DEODORANT. THE PHARMA-CRAFT CORPORATION, New York, N. Y.
Filed Mar. 29, 1949, Serial No. 576,281. Published July 4, 1950. Class 51.

533,118. NOODLES, VEGETABLE NOODLE SOUP MIXTURE, AND NOODLE SOUP MIXTURE WITH CHICKEN FAT. I. J. GRASS NOODLE CO., INC., Chicago, Ill.
Filed Apr. 1, 1949, Serial No. 576,490. Published June 6, 1950. Class 46.

533,119. READY-MIXED PAINT FOR EXTERIOR SURFACES. GREAT LAKES STEEL CORPORATION, Ecorse, Detroit, Mich.
Filed Apr. 6, 1949, Serial No. 576,693. Published Aug. 8, 1950. Class 16.

533,120. STEEL TILE FOR APPLICATION TO WALLS AND CEILINGS. ROYAL CROWN STEEL TILE CO., Philadelphia, Pa.
Filed Apr. 9, 1949, Serial No. 576,884. Published July 4, 1950. Class 12.

533,121. FERMENTED MALT BEVERAGES, PARTICULARLY BEER AND ALE. LIEBMANN BREWERIES, INC., Brooklyn, N. Y.
Filed Apr. 15, 1949, Serial No. 577,198. CONCURRENT USE. Published July 11, 1950. Class 48.

533,122. FERMENTED MALT BEVERAGES, PARTICULARLY BEER. LIEBMANN BREWERIES, INC., Brooklyn, N. Y.
Filed Apr. 15, 1949, Serial No. 577,199. CONCURRENT USE. Published July 11, 1950. Class 48.

533,123. FERMENTED MALT BEVERAGES, PARTICULARLY ALE. LIEBMANN BREWERIES, INC., Brooklyn, N. Y.
Filed Apr. 15, 1949, Serial No. 577,200. CONCURRENT USE. Published July 11, 1950. Class 48.

533,124. FERMENTED MALT BEVERAGES, PARTICULARLY ALE. LIEBMANN BREWERIES, INC., Brooklyn, N. Y.
Filed Apr. 15, 1949, Serial No. 577,201. CONCURRENT USE. Published July 11, 1950. Class 48.

533,125. FERTILIZER DISTRIBUTORS. VERNON R. MACFEE, Doster, Mich.
Filed Apr. 15, 1949, Serial No. 577,203. Published Aug. 8, 1950. Class 23.

533,126. SAFETY RAZOR BLADES. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed Apr. 16, 1949, Serial No. 577,248. Published June 27, 1950. Class 23.

533,127. DRAIN PIPE SOLVENT. UNIVERSAL REFINING PRODUCTS CO., INC., New York, N. Y.
Filed Apr. 16, 1949, Serial No. 577,292. Published Aug. 1, 1950. Class 52.

533,128. BODY TEMPERATURE THERMOMETERS. EDWARD F. KEEFE, doing business as Linacre Laboratories, New York, N. Y.
Filed Apr. 21, 1949, Serial No. 577,480. Published July 25, 1950. Class 44.

533,129. DENTIFRICE, HAIRDRESSING, AND COSMETIC CREAM. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed Apr. 20, 1949, Serial No. 577,557. Published July 4, 1950. Class 51.

533,130. ANALGESICS, ANTI-ANEMICS, ANTIBIOTICS, ANTI-HISTAMINE AGENTS, ETC. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed Apr. 25, 1949, Serial No. 577,681. Published Aug. 8, 1950. Class 18.

533,131. COMBINATION BOTTLE OPENER AND CORK SCREW. HOWARD L. ROSS, doing business as Howard L. Ross Associates, New York, N. Y.
Filed Apr. 28, 1949, Serial No. 577,903. Published June 27, 1950. Class 23.

533,132. PLANT THINNING ATTACHMENT FOR CULTIVATORS IN THE NATURE OF A DISC, COMMONLY CALLED A COTTON CHOPPER. THE MAYCO COMPANY, Kennett, Mo.
Filed Apr. 29, 1949, Serial No. 577,974. Published Aug. 8, 1950. Class 23.

533,133. STAPLING MACHINES. THE E. H. HOTCHKISS COMPANY, Norwalk, Conn.
Filed Apr. 30, 1949, Serial No. 578,021. Published June 27, 1950. Class 23.

533,134. VAPOR PROOF FLOOD AND SPOT LIGHTS WITH ADJUSTABLE SUPPORTING STANDS. WILLIAM H. WOODWARD, doing business as Woodward Machine Company, Detroit, Mich.
Filed May 2, 1949, Serial No. 578,114. Published Aug. 8, 1950. Class 21.

533,135. HYALURONIDASE FOR INJECTABLE USE IN DENTAL ANASTHESIA. WYETH INCORPORATED, Philadelphia, Pa.
Filed May 5, 1949, Serial No. 578,305. Published Aug. 8, 1950. Class 18.

533,136. UREA-FORMALDEHYDE OR MODIFIED UREA-FORMALDEHYDE COMPOSITIONS FOR GENERAL USE IN THE INDUSTRIAL ARTS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed May 12, 1949, Serial No. 578,681. Published Aug. 1, 1950. Class 6.

533,137. CHEMICAL PREPARATION HAVING MILD LAXATIVE PROPERTIES FOR THE DRINKING WATER OF CHICKENS AND TURKEYS AS AN AID IN THE RELIEF OF MINOR BOWEL DISORDERS. H. L. MOYER COMPANY, INC., Bloomsburg, Pa.
Filed May 23, 1949, Serial No. 579,343. Published Aug. 8, 1950. Class 18.

533,138. ANALGESIC. SCHERING CORPORATION, Bloomfield, N. J.
Filed May 27, 1949, Serial No. 579,624. Published Aug. 8, 1950. Class 18.

533,139. ANALGESIC. SCHERING CORPORATION, Bloomfield, N. J.
Filed May 27, 1949, Serial No. 579,628. Published Aug. 8, 1950. Class 18.

533,140. ANALGESIC. SCHERING CORPORATION, Bloomfield, N. J.
Filed May 27, 1949, Serial No. 579,629. Published Aug. 8, 1950. Class 18.

533,141. ELECTRICAL RESISTORS. EXMET ELECTRICAL CORPORATION, New York, N. Y.
Filed May 28, 1949, Serial No. 579,677. Published Aug. 1, 1950. Class 21.

533,142. ELECTRIC FLOOD LAMPS FOR MOBILE EQUIPMENT. PHOENIX PRODUCTS COMPANY, Milwaukee, Wis.
Filed May 28, 1949, Serial No. 579,708. Published July 25, 1950. Class 21.

533,143. CLEANSING CREAM, STEAM PACK CREAM, ASTRINGENT AND SKIN TONE CREAM. ELEANOR M. D'AOUST, Philadelphia, Pa.
Filed June 6, 1949, Serial No. 580,014. Published July 25, 1950. Class 51.

533,144. SECTIONAL BELT CONVEYORS. PETERSON PRODUCTS CORPORATION, Chicago, Ill.
Filed June 8, 1949, Serial No. 580,144. Published Aug. 8, 1950. Class 23.

533,145. ROOM DEODORANTS. ESTON CHEMICALS, INC., Los Angeles, Calif.
Filed June 10, 1949, Serial No. 580,233. Published June 27, 1950. Class 6.

533,146. BLADE ATTACHMENTS FOR BOAT RUDDERS TO ASSIST IN MANUAL PROPULSION OF BOATS. EDGAR BELMONT, doing business as County Specialties, Port Chester, N. Y.
Filed June 11, 1949, Serial No. 580,280. Published Aug. 15, 1950. Class 19.

533,147. CANNED CORNED BEEF, CANNED CORNED BEEF HASH, CANNED ROAST BEEF. CORPORACION ARGENTINA DE PRODUCTORES DE CARNES, New York, N. Y.
Filed June 11, 1949, Serial No. 580,288. Published June 20, 1950. Class 46.

533,148. AUTOGRAPHIC REGISTERS AND AUTOGRAPHIC REGISTERS WITH ATTACHED CASH RECEPTACLES. UARCO INCORPORATED, Chicago, Ill.
Filed June 11, 1949, Serial No. 580,331. Published Aug. 1, 1950. Class 23.

533,149. PERFUMES AND COLOGNES. LEON V. LEBEDEFF, doing business as Parfums de Leon, Los Angeles, Calif.
Filed June 13, 1949, Serial No. 580,369. Published July 25, 1950. Class 51.

533,150. AIR ACTIVATED GRAVITY CONVEYORS FOR DRY PULVERULENT MATERIAL AND PARTS AND ACCESSORIES THEREFOR. FULLER COMPANY, Catasauqua, Pa.
Filed June 14, 1949, Serial No. 580,404. Published June 6, 1950. Class 23.

533,151. COMBINATION OF PURE CRYSTALLINE HORMONES AND VITAMINS. SCHERING CORPORATION, Bloomfield, N. J.
Filed June 21, 1949, Serial No. 580,858. Published Aug. 8, 1950. Class 18.

533,152. METAL GLIDES FOR FURNITURE. KAY MANUFACTURING CORPORATION, Brooklyn, N. Y.
Filed June 22, 1949, Serial No. 580,885. Published Aug. 8, 1950. Class 13.

533,153. OVERHEAD TRAVELLING CRANES, MONORAILS, AND HOISTS. PIDGEON-THOMAS IRON COMPANY, Memphis, Tenn.
Filed June 23, 1949, Serial No. 580,946. Published Aug. 1, 1950. Class 23.

533,154. ALCOHOL SOLVENT. UNITED DISTILLERS OF AMERICA, INC., New York, N. Y.
Filed June 23, 1949, Serial No. 580,958. Published Aug. 1, 1950. Class 6.

533,155. ORGANIC ESTERS OF ALCOHOLS AND ORGANIC CARBOXYLIC ACIDS, AND MIXTURES THEREOF, SUITABLE FOR USE AS PLASTICIZERS AND AS ANTI-FOAMING AGENTS. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed June 24, 1949, Serial No. 580,964. Published Aug. 1, 1950. Class 6.

533,156. SCAFFOLD SUPPORTING BRACKETS INCLUDING ELEVATING MECHANISM THEREFOR AND KNOWN AS MECHANICAL STIRRUPS. ALBINA ENGINE & MACHINE WORKS, INC., Portland, Oreg.
Filed June 28, 1949, Serial No. 581,154. Published Aug. 1, 1950. Class 23.

533,157. COMBINATION PRODUCT WHICH POLISHES, CLEANS, RESTORES, AND PRESERVES FURNITURE. JANE C. CASTELL, New York, N. Y., assignor to Wood Cosmetics, Inc., New York, N. Y., a corporation of New York.
Filed June 30, 1949, Serial No. 581,322. Published July 4, 1950. Class 4.

533,158. HAND OPERATED TIRE PUMPS. RAE W. RUSSELL, doing business as Blue Bird Mfg. Co., Long Island City, N. Y.
Filed July 1, 1949, Serial No. 581,443. Published June 27, 1950. Class 23.

533,159. ANTICONVULSANT PREPARATION. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed July 8, 1949, Serial No. 581,680. Published July 25, 1950. Class 18.

533,160. COLLAPSIBLE STROLLERS. STROLINER MANUFACTURING COMPANY, Union City, N. J.
Filed July 9, 1949, Serial No. 581,742. Published Aug. 15, 1950. Class 19.

533,161. FRESH VEGETABLES. HILLSIDE RANCH, Lemon Grove, Calif.
Filed July 11, 1949, Serial No. 581,767. Published June 20, 1950. Class 46.

533,162. UNITARY PORTABLE ELECTRIC HAND MANIPULABLE SPRAYERS FOR PAINTS, INSECTICIDES, ETC. BURGESS BATTERY COMPANY, Freeport and Chicago, Ill., assignor to Burgess Vibrocrafters, Inc., Lake Zurich, Ill., a corporation of Delaware.
Filed July 12, 1949, Serial No. 581,797. Published Aug. 8, 1950. Class 21.

533,163. LABEL DISPENSERS. AVERY ADHESIVE LABEL CORP., Monrovia, Calif.
Filed July 13, 1949, Serial No. 581,852. Published Aug. 8, 1950. Class 23.

533,164. INCLINED BELT CONVEYORS. SPEEDWAYS CONVEYORS, INCORPORATED, Buffalo, N. Y.
Filed July 13, 1949, Serial No. 581,912. Published Aug. 8, 1950. Class 23.

533,165. BEER. MILLER BREWING COMPANY, Milwaukee, Wis.
Filed July 16, 1949, Serial No. 582,091. Published July 18, 1950. Class 48.

533,166. MALT BEVERAGES—VIZ., BEER AND ALE. QUALITOP BEVERAGES, INC., Rochester, N. Y.
Filed June 23, 1949, Serial No. 582,401. Published Aug. 1, 1950. Class 48.

533,167. SOLVENT FOR CLEANING TOILET BOWLS. WESTERN CHEMICAL COMPANY, Kansas City, Mo.
Filed June 27, 1949, Serial No. 582,402. Published Aug. 1, 1950. Class 52.

533,168. CONTAINER FOR PACKAGES OF CIGARETTES. HARWICK, Hollywood, Calif.
Filed July 25, 1949, Serial No. 582,475. Published Aug. 1, 1950. Class 8.

533,169. ELECTRICAL CONDENSERS. SPRAGUE ELECTRIC COMPANY, North Adams, Mass.
Filed July 25, 1949, Serial No. 582,500. Published July 11, 1950. Class 21.

533,170. PERFUMES AND TOILET WATERS. DAGGETT & RAMSDELL, INC., Newark, N. J.
Filed July 26, 1949, Serial No. 582,521. Published July 25, 1950. Class 51.

533,171. RAZOR BLADES. ATOMIC BLADE CO., Knoxville, Tenn.
Filed July 27, 1949, Serial No. 582,554. Published June 27, 1950. Class 23.

533,172. CATHODE RAY TUBES. AMERICAN TELEVISION, INC., Chicago, Ill.
Filed July 28, 1949, Serial No. 582,591. Published Aug. 15, 1950. Class 21.

533,173. PRINTING INK ESPECIALLY ADAPTED FOR APPLICATION TO VINYL FILM. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed July 28, 1949, Serial No. 582,625. Published Aug. 8, 1950. Class 11.

533,174. EVAPORATED MILK. ROCHESTER DAIRY COOPERATIVE, Rochester, Minn.
Filed July 28, 1949, Serial No. 582,649. Published June 20, 1950. Class 46.

533,175. BATH OIL AND COLOGNE. PAUL D. NEWTON & CO. INC., Newark, N. Y.
Filed July 29, 1949, Serial No. 582,695. Published July 25, 1950. Class 51.

533,176. TELEVISION ANTENNAS. TELREX INC., Asbury Park, N. J.
Filed July 30, 1949, Serial No. 582,746. Published Aug. 15, 1950. Class 21.

533,177. ALUMINUM PAINTS. CLARONEX PRODUCTS, INC., Brooklyn, N. Y.
Filed Aug. 2, 1949, Serial No. 582,821. Published Aug. 8, 1950. Class 16.

533,178. MEDICAL COMPOUND (OINTMENT) FOR TREATMENT OF WOUNDS OF ANY DESCRIPTION, ETC. DESITIN CHEMICAL CO., Providence, R. I.
Filed Aug. 4, 1949, Serial No. 582,952. Published Aug. 8, 1950. Class 18.

533,179. SPRAYERS AND DUSTERS, USED FOR APPLYING INSECTICIDES, PESTICIDES, FUNGICIDES, WEED KILLERS, WHITEWASH, AND COLD WATER PAINTS. H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill.
Filed Aug. 10, 1949, Serial No. 583,261. Published Aug. 8, 1950. Class 23.

533,180. MEDICINAL PREPARATION FOR THE TREATMENT OF HEMAPOIETIC AND NUTRITIONAL DISORDERS. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed Aug. 11, 1949, Serial No. 583,372. Published Aug. 8, 1950. Class 18.

533,181. MEDICINAL PREPARATION FOR THE TREATMENT OF HORMONAL INSUFFICIENCIES AND DYSFUNCTIONS. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed Aug. 11, 1949, Serial No. 583,374. Published Aug. 8, 1950. Class 18.

533,182. VENDING MACHINES—NAMELY, MACHINES FOR VENDING OR ISSUING INSURANCE. VENDOMATIC, Torrance, Calif.
Filed Aug. 15, 1949, Serial No. 583,504. Published Aug. 1, 1950. Class 23.

533,183. WHISKEY. A. SMITH BOWMAN & SONS, INCORPORATED, doing business as The A. Smith Bowman Distillery, Sunset Hills, Va.
Filed Aug. 16, 1949, Serial No. 583,517. Published July 4, 1950. Class 49.

533,184. CLUTCHES, PARTICULARLY OF THE OVERRUNNING TYPE AND PARTS THEREOF. THE ELECTRIC AUTO-LITE COMPANY, Toledo, Ohio.
Filed Aug. 18, 1949, Serial No. 583,644. Published Aug. 1, 1950. Class 23.

533,185. PHARMACEUTICAL PREPARATION FOR THE RELIEF OF ITCHING DUE TO POISON IVY OR SUMAC POISONING. A. F. RUSSELL & CO., INC., Tuckahoe, N. Y.
Filed Aug. 18, 1949, Serial No. 583,663. Published Aug. 8, 1950. Class 18.

533,186. LIQUID PREPARATION FOR PROVIDING A GLOSSY AND NON-DRAG SURFACE TO NATURAL, SYNTHETIC AND RECLAIMED RUBBER, SAID PREPARATION APPLIED TO THE RUBBER BY SPRAYING, BRUSHING OR DIPPING AND ALLOWED TO DRY THEREON. HERBERT J. GENSEKE, doing business as Genseke Brothers, Chicago, Ill.
Filed Aug. 19, 1949, Serial No. 583,686. Published Aug. 8, 1950. Class 6.

533,187. PAPER WITH METAL FOIL MOUNTED ON ONE OR BOTH FACES TO BE USED AS A MOISTURE VAPOR BARRIER IN THERMAL INSULATION FOR BUILDINGS AND THE LIKE. REFLECTAL CORPORATION, New York, N. Y.
Filed Aug. 20, 1949, Serial No. 583,775. Published July 11, 1950. Class 12.

533,188. ACETYL CHLORIDE, AMMONIUM BENZOATE, ALLYLCHLORFORMATE, ETC. HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y.
Filed Aug. 22, 1949, Serial No. 583,799. Published Aug. 1, 1950. Class 6.

533,189. MASONRY CEMENT. LOUISVILLE CEMENT COMPANY, Louisville, Ky.
Filed Aug. 25, 1949, Serial No. 584,009. Published July 11, 1950. Class 12.

533,190. WHEAT FLOUR. THE CONSOLIDATED FLOUR MILLS COMPANY, Wichita, Kans.
Filed July 8, 1949, Serial No. 584,038. Published June 20, 1950. Class 46.

533,191. HAND KNITTING APPARATUS. LUCHSINGER'S HANDELSGESELLSCHAFT AMSTERDAM FILIALE ZUERICH, Zurich, Switzerland.
Filed Aug. 27, 1949, Serial No. 584,142. Published Aug. 8, 1950. Class 23.

533,192. MEDICINE FOR STIMULATION OF THE CENTRAL NERVOUS SYSTEM, TREATMENT OF OBESITY, ETC. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed Aug. 27, 1949, Serial No. 584,162. Published Aug. 8, 1950. Class 18.

533,193. POP CORN VENDING MACHINES. J. R. GIESLER & ASSOCIATES, Los Angeles, Calif.
Filed Aug. 29, 1949, Serial No. 584,195. Published July 18, 1950. Class 23.

533,194. MOUTH AND TEETH TREATING PREPARATIONS CONTAINING SULFONATED ALKYL ARYL COMPOUNDS. AMERICAN ALCOLAC CORPORATION, New York, N. Y.
Filed Sept. 2, 1949, Serial No. 584,376. Published Aug. 8, 1950. Class 18.

533,195. DEFLECTOR TYPE AIR CIRCULATORS EMPLOYING ELECTRICALLY DRIVEN FANS, INCLUDING FLOOR MODELS, DESK MODELS AND VERTICAL OR COLUMN TYPE CIRCULATORS AND CEILING CIRCULATORS. KISCO COMPANY, INC., St. Louis, Mo.
Filed Sept. 9, 1949, Serial No. 584,626. Published Aug. 8, 1950. Class 21.

533,196. NON-INFLAMMABLE AND PERMANENT PAINT PACKED IN TUBES SUPPLIED WITH BALL POINT TIPS FOR WRITING, DRAWING, DECORATING, AND MARKING. BINNEY & SMITH COMPANY, New York, N. Y.
Filed Sept. 27, 1949, Serial No. 585,364. Published Aug. 8, 1950. Class 16.

533,197. NASAL CATHETERS, STOMACH TUBES, RECTAL TUBES, RUBBER TUBING FOR PARENTERAL FLUIDS, ETC. BAXTER LABORATORIES, INC., Morton Grove, Ill.
Filed Sept. 29, 1949, Serial No. 585,509. Published Aug. 15, 1950. Class 44.

533,198. ANTENNA ROTATORS—NAMELY, AN ELECTRICAL DEVICE FOR ORIENTING ANTENNAS FOR TELEVISION, RADIO, AND OTHER RADIANT ENERGY DEVICES, AND PARTS THEREOF. CROWN CONTROLS COMPANY, INC., New Bremen, Ohio.
Filed Sept. 29, 1949, Serial No. 585,516. Published Aug. 15, 1950. Class 21.

533,199. MAGNET WIRE. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed Sept. 30, 1949, Serial No. 585,555. Published Aug. 8, 1950. Class 21.

533,200. BEER. THEO. HAMM BREWING CO., St. Paul, Minn.
Filed Sept. 30, 1949, Serial No. 585,587. Published Aug. 1, 1950. Class 48.

533,201. PAMPHLETS PUBLISHED IRREGULARLY CONTAINING VOTING REQUIREMENTS, ETC. THE CIVIC CLUB OF ALLEGHENY COUNTY, Pittsburgh, Pa.
Filed Oct. 1, 1949, Serial No. 585,631. Published Aug. 8, 1950. Class 38.

533,202. GASOLINE POWER DRIVEN LAWN MOWERS. SAVAGE ARMS CORPORATION, Utica, N. Y.
Filed Oct. 6, 1949, Serial No. 585,862. Published Aug. 1, 1950. Class 23.

533,203. MANUALLY OPERATED LAWN MOWERS. SAVAGE ARMS CORPORATION, Utica, N. Y.
Filed Oct. 6, 1949, Serial No. 585,863. Published Aug. 1, 1950. Class 23.

533,204. BEVERAGE MIXING, DISPENSING, AND VENDING MACHINES SOLD AS UNITARY DEVICES. LION MANUFACTURING CORPORATION, Chicago, Ill.
Filed Oct. 7, 1949, Serial No. 585,946. Published Aug. 8, 1950. Class 23.

533,205. PERIODICAL ISSUED WEEKLY. LLOYD HOLLISTER INC., Glenview, Ill.
Filed Oct. 8, 1949, Serial No. 585,999. Published Aug. 8, 1950. Class 38.

533,206. ACID HARDENING FIXING POWDER. PHILIP A. HUNT COMPANY, Brooklyn, N. Y.
Filed Oct. 22, 1949, Serial No. 586,694. Published Aug. 8, 1950. Class 6.

533,207. RUST PROOFING COMPOSITIONS FOR TEMPORARILY PREVENTING RUSTING OF METAL BETWEEN DIFFERENT STEPS OF PROCESSING. GILRON PRODUCTS COMPANY, Cleveland, Ohio.
Filed Oct. 26, 1949, Serial No. 586,852. Published Aug. 8, 1950. Class 6.

533,208. HAIR CUTTING SHEARS. SALES AFFILIATES, INC., New York, N. Y.
Filed Nov. 10, 1949, Serial No. 587,654. Published Aug. 8, 1950. Class 23.

533,209. CHEMICAL PREPARATION FOR EXTERMINATING WEEDS. ROBERT ENGLAND, trading as James Good Co., Philadelphia, Pa.
Filed Nov. 15, 1949, Serial No. 587,796. Published Aug. 8, 1950. Class 6.

533,210. SURGICAL ELASTIC STOCKINGS. BECTON DICKINSON AND COMPANY, East Rutherford, N. J.
Filed Nov. 22, 1949, Serial No. 588,157. Published Aug. 1, 1950. Class 44.

533,211. CHEMICAL MIXTURE, KNOWN AS "BRIGHT DIP," USED TO PRODUCE BRIGHT SURFACES ON CADMIUM ELECTROPLATED ARTICLES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed Nov. 25, 1949, Serial No. 588,292. Published Aug. 8, 1950. Class 6.

533,212. FUNGICIDE FOR CONTROL OF PLANT DISEASES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed Nov. 26, 1949, Serial No. 588,386. Published Aug. 8, 1950. Class 6.

533,213. INSECTICIDE. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed Nov. 26, 1949, Serial No. 588,387. Published Aug. 8, 1950. Class 6.

533,214. AGRICULTURAL IMPLEMENTS—NAMELY, HARROWS AND PARTS. ORKIL, INCORPORATED, East Hartford and Higganum, Conn.
Filed Dec. 2, 1949, Serial No. 588,703. Published July 18, 1950. Class 23.

533,215. GARDEN TRACTORS OF THE WALKING AND RIDING TYPES. STANLEY W. SHAW, doing business under the name of Shaw Manufacturing Company, Galesburg, Kans.
Filed Oct. 27, 1949, Serial No. 588,990. Published Aug. 1, 1950. Class 23.

533,216. GEAR SPEED REDUCERS. WINFIELD H. SMITH CORPORATION, Springville, N. Y.
Filed Jan. 6, 1950, Serial No. 590,457. Published Aug. 8, 1950. Class 23.

533,217. BEVERAGE BOTTLE UNCASER AND WASHER LOADER. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,760. Published Aug. 8, 1950. Class 23.

533,218. POWER-DRIVEN COUNTERBORES. COFFEY-CUMMINS MANUFACTURING COMPANY, Pasadena, Calif.
Filed Feb. 20, 1950, Serial No. 592,760. Published Aug. 1, 1950. Class 23.

533,193. POP CORN VENDING MACHINES. J. R. GIESSLER & ASSOCIATES, Los Angeles, Calif.
Filed Aug. 29, 1949, Serial No. 584,195. Published July 18, 1950. Class 23.

533,194. MOUTH AND TEETH TREATING PREPARATIONS CONTAINING SULFONATED ALKYL ARYL COMPOUNDS. AMERICAN ALCOLAC CORPORATION, New York, N. Y.
Filed Sept. 2, 1949, Serial No. 584,376. Published Aug. 8, 1950. Class 18.

533,195. DEFLECTOR TYPE AIR CIRCULATORS EMPLOYING ELECTRICALLY DRIVEN FANS, INCLUDING FLOOR MODELS, DESK MODELS AND VERTICAL OR COLUMN TYPE CIRCULATORS AND CEILING CIRCULATORS. KISCO COMPANY, INC., St. Louis, Mo.
Filed Sept. 9, 1949, Serial No. 584,626. Published Aug. 8, 1950. Class 21.

533,196. NON-INFLAMMABLE AND PERMANENT PAINT PACKED IN TUBES SUPPLIED WITH BALL POINT TIPS FOR WRITING, DRAWING, DECORATING, AND MARKING. BINNEY & SMITH COMPANY, New York, N. Y.
Filed Sept. 27, 1949, Serial No. 585,364. Published Aug. 8, 1950. Class 16.

533,197. NASAL CATHETERS, STOMACH TUBES, RECTAL TUBES, RUBBER TUBING FOR PARENTERAL FLUIDS, ETC. BAXTER LABORATORIES, INC., Morton Grove, Ill.
Filed Sept. 29, 1949, Serial No. 585,509. Published Aug. 15, 1950. Class 44.

533,198. ANTENNA ROTATORS—NAMELY, AN ELECTRICAL DEVICE FOR ORIENTING ANTENNAS FOR TELEVISION, RADIO, AND OTHER RADIANT ENERGY DEVICES, AND PARTS THEREOF. CROWN CONTROLS COMPANY, INC., New Bremen, Ohio.
Filed Sept. 29, 1949, Serial No. 585,516. Published Aug. 15, 1950. Class 21.

533,199. MAGNET WIRE. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio.
Filed Sept. 30, 1949, Serial No. 585,555. Published Aug. 8, 1950. Class 21.

533,200. BEER. THEO. HAMM BREWING CO., St. Paul, Minn.
Filed Sept. 30, 1949, Serial No. 585,587. Published Aug. 1, 1950. Class 48.

533,201. PAMPHLETS PUBLISHED IRREGULARLY CONTAINING VOTING REQUIREMENTS, ETC. THE CIVIC CLUB OF ALLEGHENY COUNTY, Pittsburgh, Pa.
Filed Oct. 1, 1949, Serial No. 585,631. Published Aug. 8, 1950. Class 38.

533,202. GASOLINE POWER DRIVEN LAWN MOWERS. SAVAGE ARMS CORPORATION, Utica, N. Y.
Filed Oct. 6, 1949, Serial No. 585,862. Published Aug. 1, 1950. Class 23.

533,203. MANUALLY OPERATED LAWN MOWERS. SAVAGE ARMS CORPORATION, Utica, N. Y.
Filed Oct. 6, 1949, Serial No. 585,863. Published Aug. 1, 1950. Class 23.

533,204. BEVERAGE MIXING, DISPENSING, AND VENDING MACHINES SOLD AS UNITARY DEVICES. LION MANUFACTURING CORPORATION, Chicago, Ill.
Filed Oct. 7, 1949, Serial No. 585,946. Published Aug. 8, 1950. Class 23.

533,205. PERIODICAL ISSUED WEEKLY. LLOYD HOLLISTER INC., Glenview, Ill.
Filed Oct. 8, 1949, Serial No. 585,999. Published Aug. 8, 1950. Class 38.

533,206. ACID HARDENING FIXING POWDER. PHILIP A. HUNT COMPANY, Brooklyn, N. Y.
Filed Oct. 22, 1949, Serial No. 586,694. Published Aug. 8, 1950. Class 6.

533,207. RUST PROOFING COMPOSITIONS FOR TEMPORARILY PREVENTING RUSTING OF METAL BETWEEN DIFFERENT STEPS OF PROCESSING. GILRON PRODUCTS COMPANY, Cleveland, Ohio.
Filed Oct. 26, 1949, Serial No. 586,852. Published Aug. 8, 1950. Class 6.

533,208. HAIR CUTTING SHEARS. SALES AFFILIATES, INC., New York, N. Y.
Filed Nov. 10, 1949, Serial No. 587,654. Published Aug. 8, 1950. Class 23.

533,209. CHEMICAL PREPARATION FOR EXTERMINATING WEEDS. ROBERT ENGLAND, trading as James Good Co., Philadelphia, Pa.
Filed Nov. 15, 1949, Serial No. 587,796. Published Aug. 8, 1950. Class 6.

533,210. SURGICAL ELASTIC STOCKINGS. BECTON DICKINSON AND COMPANY, East Rutherford, N. J.
Filed Nov. 22, 1949, Serial No. 588,157. Published Aug. 1, 1950. Class 44.

533,211. CHEMICAL MIXTURE, KNOWN AS "BRIGHT DIP," USED TO PRODUCE BRIGHT SURFACES ON CADMIUM ELECTROPLATED ARTICLES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed Nov. 25, 1949, Serial No. 588,292. Published Aug. 8, 1950. Class 6.

533,212. FUNGICIDE FOR CONTROL OF PLANT DISEASES. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed Nov. 26, 1949, Serial No. 588,386. Published Aug. 8, 1950. Class 6.

533,213. INSECTICIDE. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed Nov. 26, 1949, Serial No. 588,387. Published Aug. 8, 1950. Class 6.

533,214. AGRICULTURAL IMPLEMENTS—NAMELY, HARROWS AND PARTS. ORKIL, INCORPORATED, East Hartford and Higganum, Conn.
Filed Dec. 2, 1949, Serial No. 588,703. Published July 18, 1950. Class 23.

533,215. GARDEN TRACTORS OF THE WALKING AND RIDING TYPES. STANLEY W. SHAW, doing business under the name of Shaw Manufacturing Company, Galesburg, Kans.
Filed Oct. 27, 1949, Serial No. 588,990. Published Aug. 1, 1950. Class 23.

533,216. GEAR SPEED REDUCERS. WINFIELD H. SMITH CORPORATION, Springville, N. Y.
Filed Jan. 6, 1950, Serial No. 590,457. Published Aug. 8, 1950. Class 23.

533,217. BEVERAGE BOTTLE UNCASER AND WASHER LOADER. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,760. Published Aug. 8, 1950. Class 23.

533,218. POWER-DRIVEN COUNTERBORES. COFFEY-CUMMINS MANUFACTURING COMPANY, Pasadena, Calif.
Filed Feb. 20, 1950, Serial No. 592,760. Published Aug. 1, 1950. Class 23.

Service Marks

533,219. WATER TRANSPORTATION OF CARGO AND PASSENGERS UPON THE NAVIGABLE WATERS OF THE WORLD BY MEANS OF SELF-PROPELLED VESSELS. MOORE-MCCORMACK LINES, INC., New York, N. Y.
Filed Sept. 30, 1947, Serial No. 536,275. Published June 21, 1949. Class 105.

533,220. MARINE TOWING AND TRANSPORTATION SERVICES—NAMELY, THE TOWING OF VESSELS AND OTHER FLOATING EQUIPMENT AND THE TRANSPORTATION OF COMMODITIES BY MEANS OF TOWED VESSELS. MORAN TOWING CORPORATION, New York, N. Y.
Filed Apr. 16, 1948, Serial No. 554,803. Published Sept. 13, 1949. Class 105.

532,221. RAILROAD TRANSPORTATION OF PASSENGERS AND GOODS. UNION PACIFIC RAILROAD COMPANY, Omaha, Nebr.
Filed June 21, 1948, Serial No. 559,869. Published Aug. 8, 1950. Class 105.

Certification Mark

533,222. POULTRY MASH CONTAINING PRINCIPALLY GRAIN PRODUCTS, ALFALFA MEAL, FISH MEAL, DRIED MILK PRODUCTS, BONE MEAL, MINERALS, AND VITAMIN CONCENTRATES. TRUESDAIL LABORATORIES, INC., Los Angeles, Calif.
Filed Aug. 18, 1947, Serial No. 531,739. Published June 6, 1950. Class 46.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

533,223. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WESCO WATERPAINTS, INC., Berkeley, Calif. Original filed, act of 1905, Oct. 23, 1944; amended to application under act of 1946, Principal Register, Oct. 24, 1947; amended to Supplemental Register Nov. 28, 1949, Serial No. 475,641.

WResin

FOR PAINTS IN PASTE FORM.
Claims use since Aug. 13, 1943.

533,224. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OSCAR MAYER & CO., INC., Chicago, Ill. Original filed, act of 1905, Jan. 8, 1945; amended to application under act of 1946, Supplemental Register, Apr. 28, 1948, Serial No. 478,402.

60 SUPER GAIN

FOR TANKAGE AND MEAT SCRAPS FOR USE AS A FEED FOR HOGS AND CATTLE.
Claims use since Sept. 1, 1932.

533,225. (CLASS 2. RECEPTACLES.) GIDEON R. DANIELSON, Geneva, Ill. Original filed, act of 1905, Jan. 7, 1946; amended to application under act of 1946, Supplemental Register, Feb. 23, 1949, Serial No. 494,394.

STITCH-KIT

FOR CONTAINERS IN THE FORM OF A PLASTIC TRAY HAVING A SPOOL RACK FOR HOLDING NEEDLES, SPOOLS, SCISSORS, AND OTHER SEWING MATERIALS, SOLD IN TRADE EMPTY.
Claims use since Nov. 1, 1945.

533,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) SWIFT MANUFACTURING COMPANY, Columbus, Ga. Original filed, act of 1905, Aug. 28, 1946; amended to application under act of 1946, Supplemental Register, July 26, 1949, Serial No. 508,352.

Cottonet

FOR OPEN MESH BAG MATERIAL.
Claims use since Aug. 1, 1946.

533,227. (CLASS 39. CLOTHING.) FRANK G. FARINO, doing business as Leading Lady Brassiere Company, Cleveland, Ohio. Original filed, act of 1905, Oct. 10, 1946; amended to application under act of 1946, Principal Register, Nov. 14, 1947; amended to Supplemental Register July 23, 1948, Serial No. 510,582.

Waiting Mother

FOR BRASSIÈRES.
Claims use since Nov. 1, 1945.

533,228. (CLASS 39. CLOTHING.) THE LA RESISTA CORSET COMPANY, Bridgeport, Conn. Original filed, act of 1905, Nov. 12, 1946; amended to application under act of 1946, Supplemental Register, Nov. 29, 1949, Serial No. 512,428.

Hold the bust line
And you hold youth

FOR CORSETS, CORSELETS, GIRDLES, PANTY GIRDLES, AND BRASSIÈRES.
Claims use since Nov. 30, 1945.

533,229. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) EXCEL AUTOMATIC PRODUCTS, INC., Newark, N. J. Original filed, act of 1905, Feb. 27, 1947; amended to application under act of 1946, Principal Register, June 19, 1948; amended to Supplemental Register Aug. 11, 1949, Serial No. 518,213.

PETITE

FOR HAND MANIPULATED PYROPHORIC CIGARETTE LIGHTERS.
Claims use since Jan. 4, 1947.

533,230. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLOTTE RONDA, doing business as Ronda Creations, New York, N. Y. Original filed, act of 1905, Apr. 8, 1947; amended to application under act of 1946, Supplemental Register, Mar. 19, 1949, Serial No. 520,350.

RONDA

FOR DOLL.
Claims use since Jan. 2, 1946.

533,231. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOBBERS SUPPLY COMPANY, INC., Kansas City, Mo. Original filed, act of 1905, Apr. 28, 1947; amended to application under act of 1946, Supplemental Register, Oct. 4, 1948, Serial No. 521,451.

Fellows Replacement Parts Original

FOR WATER PUMPS FOR VEHICLES, WATER PUMP REPAIR KITS COMPRISING PROPELLER SHAFTS, PROPELLERS, GASKETS, BOLTS AND NUTS, VALVES FOR INTERNAL COMBUSTION ENGINES, VALVE GUIDES FOR INTERNAL COMBUSTION ENGINES, AND FUEL PUMPS.
Claims use since Apr. 7, 1947.

533,232. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PAUL L. KARSTROM CO., Chicago, Ill. Original filed, act of 1905, May 17, 1947; amended to application under act of 1946, Supplemental Register, June 29, 1950, Serial No. 522,598.

SPEE-DEE

FOR PACKAGING MACHINERY FOR FILLING PACKAGES WITH MEASURED QUANTITIES OF MATERIAL.
Claims use since Jan. 17, 1947.

533,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MAURICE FLANAGAN, doing business as Dorr Candies, Sioux City, Iowa. Original filed, act of 1905, June 28, 1947; amended to application under act of 1946, Supplemental Register, Dec. 12, 1949, Serial No. 525,073.

PECANETS

FOR CANDIES.
Claims use since Oct. 15, 1946.

533,234. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SUPERIOR PRODUCTS CO., Magnolia, Ohio. Original filed, act of 1946, Principal Register, Sept. 5, 1947; amended to application, Supplemental Register, Sept. 14, 1950, Serial No. 533,643.

SUPREME HITCH

FOR TRACTOR HITCHES.
Claims use since Mar. 1, 1947.

533,235. (CLASS 47. WINES.) VINCENT F. COVIELLO, doing business as Vincove Winery, Montclair, N. J. Original filed, act of 1946, Principal Register, Sept. 17, 1947; amended to application, Supplemental Register, Dec. 30, 1948, Serial No. 534,754.

Vino di Casa

FOR WINES.
Claims use since Feb. 26, 1946.

533,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOGAN AND HOGAN, Andover, Mass. Original filed, act of 1946, Principal Register, Oct. 18, 1947; amended to application, Supplemental Register, May 12, 1950, Serial No. 538,280.

COLA-CA-CHEWS

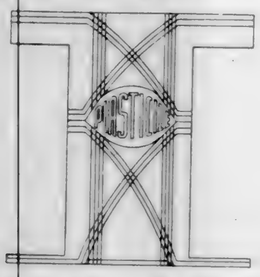
FOR CANDY.
Claims use since July 30, 1947.

533,237. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. LAURENCE SWEENEY, Yarmouth, Nova Scotia, Canada. Original filed, act of 1946, Principal Register, Nov. 10, 1947; amended to application, Supplemental Register, Mar. 1, 1949, Serial No. 540,737.

PICK O'SEA

Applicant claims ownership of Canadian Registration No. 19,343, dated February 15, 1943.
FOR FROZEN FRESH FISH.

533,238. (CLASS 52. DETERGENTS AND SOAPS.) NERVIN P. SMITH, doing business as Plasticize Laboratories, Miami, Fla., assignor to Paul Rimmeir, Miami, Fla. Original filed, act of 1946, Principal Register, Dec. 2, 1947; amended to application, Supplemental Register, Mar. 23, 1949, Serial No. 542,976.



FOR PLASTIC PREPARATION FOR CLEANING THE OUTER PAINTED SURFACES OF AUTOMOBILES AND SIMULTANEOUSLY APPLYING TO SAID SURFACES A PROTECTIVE COATING.
Claims use since Apr. 1, 1946.

533,239. (CLASS 39. CLOTHING.) FASHION PARK, INC., Rochester, N. Y. Original filed, act of 1946, Principal Register, Dec. 17, 1947; amended to application, Supplemental Register, Apr. 14, 1949, Serial No. 544,560.

CAMEL-FUR

Applicant claims ownership of Registration No. 349,034.
FOR MEN'S TOPCOATS AND OVERCOATS MADE WHOLLY OR OF A SUBSTANTIAL PART OF CAMEL HAIR.
Claims use since Apr. 3, 1936.

533,240. (CLASS 45. SOFT DRINKS AND CARBONATED WATERS.) THE COBBS COMPANY, Little River (Miami), Fla. Original filed, act of 1946, Principal Register, Feb. 6, 1948; amended to application, Supplemental Register, Aug. 4, 1950, Serial No. 548,931.

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES ORANGE FLAVORED, SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME.
Claims use since July 30, 1935, as to the figure (Mr. Ponce); since May 15, 1940, as to the features "Cobbs" and "Sip Some Sunshine"; and since Nov. 15, 1947, as shown.

533,241. (CLASS 39. CLOTHING.) JOAN KENLEY, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 25, 1948; amended to application, Supplemental Register, Sept. 6, 1950, Serial No. 550,519.

HOLLYWOOD AT A PRICE

FOR LADIES' AND MISSES' BLOUSES.
Claims use since Oct. 7, 1935.

533,242. (CLASS 10. FERTILIZERS.) THE PERMANENTE METALS CORPORATION, Oakland, Calif., now by change of name Kaiser Aluminum & Chemical Corporation, a corporation of Delaware. Filed Mar. 9, 1948, Serial No. 551,581.

Permanente

FOR HYDRATED LIME, HYDRATED DOLOMITE, AND PHOSPHATIC FERTILIZERS.
Claims use since Sept. 30, 1944.

533,243. (CLASS 47. WINES.) G. H. MUMM & CO., SOCIETE VINICOLE DE CHAMPAGNE, SUCC., Paris, France, assignor to G. H. Mumm & Co. (Societe Vinicole de Champagne Successors), of New York Inc., New York, N. Y., a corporation of New York. Original filed, act of 1946, Principal Register, June 5, 1948; amended to application, Supplemental Register, July 12, 1949, Serial No. 558,577.

"MUMM'S THE WORD"

FOR CHAMPAGNE.
Claims use since Jan. 7, 1853 and first used in commerce among the several States of the United States and in commerce between foreign nations and the United States which may lawfully be regulated by Congress since Jan. 7, 1853.

533,244. (CLASS 17. TOBACCO PRODUCTS.) MARTA CIGAR CO., New York, N. Y. Original filed, act of 1946, Principal Register, July 12, 1948; amended to application, Supplemental Register, Oct. 3, 1949, Serial No. 561,208.

MELLO-TIP

FOR CIGARS.
Claims use since Oct. 28, 1947.

533,245. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. J. MEYER MANUFACTURING CO., Cudahy, Wis. Filed Aug. 11, 1948, Serial No. 563,206.

MEYER Deaerator SYN-CRO MIX FILLING

FOR MACHINES ADAPTED TO PRE-MIX SYRUP AND CARBONATED WATER PREPARATORY TO BOTTLING.
Claims use since December 1944.

533,246. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILSON ICE CREAM COMPANY, Lumberton, N. C. Original filed, act of 1946, Principal Register, Aug. 18, 1948; amended to application, Supplemental Register, May 24, 1950, Serial No. 563,707.

The portrait is that of a fictitious person.
FOR ICE CREAM.
Claims use since June 10, 1947.

533,247. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DAVID SARKIN, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 26, 1948; amended to application, Supplemental Register, Apr. 17, 1950, Serial No. 564,219.

KINLOCK

FOR GOLD AND PLATINUM JEWELRY—NAMELY, DIAMOND FINGER RINGS.
Claims use since July 1, 1948.

533,248. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALFRED YURDIN, doing business as Tankit Company, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 20, 1948; amended to application, Supplemental Register, Jan. 3, 1950, Serial No. 567,299.

TANKIT

FOR KIT CONTAINING A CLAMP COMPRISING AN OIL RESISTING PATCH AND A METAL BAND TO BE USED TO STOP A LEAK IN AN INSIDE FUEL OIL TANK INSTANTLY.
Claims use since July 1, 1948.

533,249. (CLASS 6. CHEMICALS AND CHEMICAL COMPOSITIONS.) MORTIMER J. STAMMELMAN, doing business as The Atmos Products Co., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 22, 1948; amended to application, Supplemental Register, Mar. 13, 1950, Serial No. 567,361.

"GOLDBRICK"

FOR POROUS COMPOSITIONS IN THE NATURE OF A CHEMICAL COMPOUND IN BRICK FORM CONTAINING INORGANIC SUBSTANCES AND ADAPTED TO ABSORB OR GIVE OFF MOISTURE FOR MAINTAINING DESIRED HUMIDITIES IN ENCLOSED SPACES, SUCH AS IN SHOW CASES FOR TOBACCO PRODUCTS, LEATHER GOODS, BAKERY PRODUCTS, PHOTOGRAPHIC FILMS, PAPER PRODUCTS AND TEXTILE YARNS.
Claims use since Oct. 19, 1938.

533,250. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) CARRIER CORPORATION, Syracuse, N. Y. Original filed, act of 1946, Principal Register, Oct. 27, 1948; amended to application, Supplemental Register, Feb. 27, 1950, Serial No. 567,682.

Lo - Fin

FOR FINNED TUBING EMPLOYED IN CONDENSERS, EVAPORATORS, COOLERS AND OTHER EQUIPMENT EMPLOYING HEAT EXCHANGERS.
Claims use since November 1940.

533,251. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) C. HAGER & SONS HINGE MFG. CO., St. Louis, Mo. Original filed, act of 1946, Principal Register, Nov. 1, 1948; amended to application, Supplemental Register, Aug. 28, 1950, Serial No. 567,969.

FOR DOOR HINGES.
Claims use since Oct. 8, 1948.

533,252. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALFRED SORRENTI, doing business as National Metal Products Co., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 10, 1948; amended to application, Supplemental Register, Mar. 9, 1950, Serial No. 570,327.

HI-SCORE

FOR GAME IN WHICH MARBLES ARE PROJECTED ALONG A TRACK AND CAUSED TO FALL INTO CUPS.
Claims use since Sept. 15, 1948.

533,253. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MORTON MANUFACTURING COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 18, 1949; amended to application, Supplemental Register, Jan. 19, 1950, Serial No. 572,370.

Morton ELECTRO-DRAIN

FOR ELECTRIC GARBAGE DISPOSAL UNITS FOR USE IN KITCHEN SINKS.
Claims use since Sept. 27, 1948.

533,254. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) C. L. STUEMPGES, Seattle, Wash. Filed Dec. 17, 1948, Serial No. 572,611.

GEM-TONE

FOR HAND-CARVED COSTUME JEWELRY OF PLASTIC COMPOSITION.
Claims use since Dec. 15, 1946.

533,255. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EATON MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 5, 1949, Serial No. 574,957.

WOOD GRIP

FOR LOCK WASHERS.
Claims use since Dec. 15, 1947.

533,256. (CLASS 2. RECEPTACLES.) MORGAN BROTHERS COMPANY, Pittsburgh, Pa. Filed Mar. 8, 1949, Serial No. 575,073.

Morgan

FOR MORTAR BOXES, PANS OF SHEET METAL USED AS CONTAINERS FOR SMALL ARTICLES OF HARDWARE, ETC.
Claims use since July 1, 1945.

533,257. (CLASS 19. VEHICLES.) TRU-KOOLER, INC., Oelwein, Iowa. Original filed, act of 1946, Principal Register, Apr. 7, 1949; amended to application, Supplemental Register, May 24, 1950, Serial No. 576,779.

TRU KOOLER

FOR REFRIGERATED AUTOMOTIVE TRUCKS.
Claims use since Oct. 18, 1948.

533,258. (CLASS 39. CLOTHING.) A. WERMAN & SONS, INC., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Apr. 18, 1949; amended to application, Supplemental Register, Aug. 24, 1950, Serial No. 577,350.

PLAY-BILT

FOR SHOES.
Claims use since November 1938.

533,259. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVEREADY BRIKSAW COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 27, 1949; amended to application, Supplemental Register, May 31, 1950, Serial No. 577,783.

EVEREADY BRIKSAW

FOR POWER DRIVEN APPARATUS FOR CUTTING AND SHAPING ARTICLES IN THE NATURE OF TILE, BRICK, NATURAL AND ARTIFICIAL STONE AND KINDRED ARTICLES COMPOSED OF SOLIDIFIED CEMENTITIOUS AND/OR CLAY MATERIALS.
Claims use since Mar. 17, 1949.

533,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LUMMUS COTTON GIN CO., Columbus, Ga. Original filed, act of 1946, Principal Register, Apr. 29, 1949; amended to application, Supplemental Register, June 16, 1950, Serial No. 577,970.

Multi-jet

FOR COMPONENT PART OF A COTTON GIN—NAMELY, AN AIR BLAST LINT DOFFING ATTACHMENT.
Claims use since Mar. 28, 1949.

533,261. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) HOUSE BEAUTIFUL CURTAINS, INC., New York, N. Y. Original filed, act of 1946, Principal Register, May 20, 1949; amended to application, Supplemental Register, May 10, 1950, Serial No. 579,190.

FRAMETTE

FOR WINDOW CURTAINS.
Claims use since May 2, 1949.

533,262. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RECTOR TRADING CORPORATION, New York, N. Y. Original filed, act of 1946, Principal Register, June 25, 1949; amended to application, Supplemental Register, July 21, 1950, Serial No. 581,080.

PFAFF

FOR SEWING MACHINES.
Claims use since May 6, 1949.

533,263. (CLASS 2. RECEPTACLES.) VOLUPTÉ, INC., Elizabeth, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 17, 1949; amended to application, Supplemental Register, Sept. 6, 1950, Serial No. 586,440.

Lip-Lock

FOR VANITY CASES (UNFILLED).
Claims use since June 2, 1949.

533,264. (CLASS 2. RECEPTACLES.) VOLUPTÉ, INC., Elizabeth, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 17, 1949; amended to application, Supplemental Register, Sept. 6, 1950, Serial No. 586,441.

Lip Look

FOR LIPSTICK CASES (UNFILLED).
Claims use since June 20, 1949.

533,265. (CLASS 45. SOFT DRINKS AND CARBONATED WATERS.) CLYDE L. BRIDGES, doing business as Tropical Beverage Company, Dallas, Tex. Filed Oct. 19, 1949, Serial No. 586,517.

Tahiti-

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME.
Claims use since July 1, 1907.

533,266. (CLASS 2. RECEPTACLES.) KENT PRODUCTIONS, INC., Grand Rapids, Mich. Original filed, act of 1946, Principal Register, Nov. 1, 1949; amended to application, Supplemental Register, Sept. 5, 1950, Serial No. 587,111.

Kentley

FOR LITHOGRAPHED TRAYS AND COASTERS MADE FROM WOOD PULP CORES.
Claims use since Mar. 23, 1949.

533,267. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ZENITH RADIO CORPORATION, Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 31, 1949; amended to application, Supplemental Register, July 21, 1950, Serial No. 590,245.

the royalty of hearing

Applicant claims ownership of Registrations Nos. 400,944 and 400,945.
FOR ELECTRICAL HEARING AIDS AND PARTS THEREOF.
Claims use since Jan. 13, 1949.

533,268. (CLASS 39. CLOTHING.) JOAN KENLEY, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 3, 1950; amended to application, Supplemental Register, Sept. 6, 1950, Serial No. 590,270.

PARIS AT A PRICE

FOR WOMEN'S AND MISSES' BLOUSES.
Claims use since Nov. 4, 1935.

533,269. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) OWENS BRUSH COMPANY, Toledo, Ohio. Filed Dec. 16, 1949, Serial No. 590,635.

Superior

Applicant claims ownership of Registrations Nos. 155,551 and 158,368.
FOR TOOTHBRUSHES.
Claims use since July 2, 1947.

533,270. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PAXSON MACHINE COMPANY, Salem, Ohio. Original filed, act of 1946, Principal Register, Jan. 28, 1950; amended to application, Supplemental Register, June 28, 1950, Serial No. 591,636.

PAXSON GIVES YOU THE EDGE!

FOR STRIP STEEL SLITTERS.
Claims use since June 15, 1949.

533,271. (CLASS 10. FERTILIZERS.) CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif. Filed Mar. 27, 1950, Serial No. 594,693.

Applicant claims ownership of Registrations Nos. 436,240, 431,438, 503,453, and 503,454.
FOR FERTILIZERS.
Claims use since Jan. 27, 1949.

Certification Mark

533,272. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AMERICAN GAS ASSOCIATION, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 9, 1948; amended to application, Supplemental Register, Jan. 6, 1950, Serial No. 546,539.

NEW FREEDOM GAS KITCHEN

FOR ASSEMBLIES OF KITCHEN EQUIPMENT COMPRISING GAS FIRED APPLIANCES AND GAS BURNING UNITS FOR SUCH ASSEMBLIES, VIZ. AUTOMATIC GAS STOVES, AUTOMATIC GAS STORAGE WATER HEATERS, AND GAS REFRIGERATORS TO BE USED IN ASSEMBLY WITH SUCH STOVES OR HEATERS.
Claims use since Nov. 1, 1944.

TRADE-MARK REGISTRATIONS RENEWED

35,788. "UNIVERSAL" AND DRAWING. Registered Jan. 15, 1901. Universal Winding Company, Portland, Maine, and Boston, Mass. Re-renewed Jan. 15, 1951, to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts. WINDING-MACHINES. Class 23.

77,427. "COMET" AND DESIGN. Registered Apr. 5, 1910. Seaboard Rice Milling Co., Galveston, Tex. Renewed Apr. 5, 1950, to Comet Rice Mills, Beaumont, Tex., a corporation of Texas. RICE. Class 46.

79,133. PIXOAP. Registered Aug. 9, 1910. Karl August Lingner, Dresden, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Aug. 9, 1950. SOLID SOAP, LIQUID SOAP, AND POWDERED SOAP. Class 52.

80,374. DELPARK. Registered Dec. 13, 1910. Bedell Parker, New York, N. Y. Re-renewed Dec. 13, 1950, to Delpark Incorporated, Newark, N. J., a corporation of New Jersey. COTTON, WOOLEN, LINEN AND SILK PIECE GOODS. Class 42.

80,387. 800. Registered Dec. 13, 1910. The Stanley Works, New Britain, Conn., a corporation of Connecticut. Re-renewed Dec. 13, 1950. WROUGHT-STEEL NARROW BUTTS OR HINGES. Class 13.

256,168. THAWPIT. Registered May 7, 1929. Thawpit Limited. Renewed May 7, 1949, to Thawpit Limited, London, England, a corporation organized under the laws of Great Britain. CHEMICAL PREPARATION FOR THE REMOVAL OF GREASE, OIL, AND TAR STAINS FROM FABRICS AND OTHER ARTICLES. Class 52.

266,709. FLORENCE. Registered Jan. 28, 1930. Florence Ravioli Company. Renewed Jan. 28, 1950, to Caravetta Foods Co., Chicago, Ill., a corporation of Illinois. RAVIOLI. Class 46.

268,302. D-PEND-ON. Registered Mar. 11, 1930. Industrial Supply Company, Inc., Salt Lake City, Utah, a corporation of Utah. Renewed Mar. 11, 1950. PORTABLE HAND FIRE EXTINGUISHERS, SAWS, KNIVES, FILES, TWIST DRILLS, ETC. Class 23.

270,926. "B B" AND DRAWING. Registered May 20, 1930. Brüder Böhm, Vienna, Austria, a firm of Austria. Renewed May 20, 1950. HAIR, WOOL, OR VELOUR FELTS AND FELTS OF OTHER MATERIAL. Class 50.

271,984. FASHION WELDS. Registered June 24, 1930. Dunn and McCarthy, Inc., Auburn, N. Y., a corporation of New York. Renewed June 24, 1950. LEATHER SHOES. Class 39.

273,388. "ARCWELD" ETC. AND DESIGN. Registered Aug. 5, 1930. Arcweld Manufacturing Company, Inc., Seattle, Wash., a corporation of Washington. Renewed Aug. 5, 1950. COAL, OIL, WOOD, AND GAS FURNACES AND FURNACE BODIES. Class 34.

274,148. THE LION. Registered Aug. 19, 1930. The International Association of Lions Clubs, Chicago, Ill., a corporation of Illinois. Renewed Aug. 19, 1950. PERIODICAL. Class 38.

274,403. POINT. Registered Aug. 26, 1930. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by royal charter. Renewed Aug. 26, 1950. BLANKETS MADE OF WOOL, BOTH IN THE PIECE AND NOT IN THE PIECE. Class 42.

275,144. "STONHARD SURBOND" AND DRAWING. Registered Sept. 16, 1930. Benjamin Berman, doing business as Stonhard Company. Renewed Sept. 16, 1950, to Stonhard Company, Philadelphia, Pa., a corporation of Pennsylvania. ASPHALT-COATED STONE USED FOR CONSTRUCTION, REPAIRING, AND RESURFACING ROADWAYS, DRIVEWAYS, AND FLOORS. Class 12.

275,145. "STONHARD CONCRETITE" AND DESIGN. Registered Sept. 16, 1930. Benjamin Berman, doing business as Stonhard Company. Renewed Sept. 16, 1950, to Stonhard Company, Philadelphia, Pa., a corporation of Pennsylvania. LIQUID MIXTURE AS A HARDENER, TIGHTENER, WATERPROOFING, ETC. Class 12.

275,251. SELBATEX. Registered Sept. 16, 1930. Selby, Battersby & Company, Philadelphia, Pa., a corporation of Delaware. Renewed Sept. 16, 1950. MATERIALS FOR PLASTIC AND MASTIC FLOOR COVERING, ETC. Class 12.

275,828. FERM-A-SURED. Registered Sept. 30, 1930. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed Sept. 30, 1950. WHEAT FLOUR. Class 46.

276,224. "UNDER-GRAD" ETC., AND DESIGN. Registered Oct. 14, 1930. The H. A. Seinsheimer Company, Cincinnati, Ohio, a corporation of Ohio. Renewed Oct. 14, 1950. BOYS' AND STUDENTS' SUITS, VESTS, PANTS, AND OVERCOATS. Class 39.

276,630. APEX CRYSTALS. Registered Oct. 21, 1930. Clean Home Products Corporation, assignor to Apex Products Corporation. Renewed Oct. 21, 1950, to Clean Home Products Inc., Chicago, Ill., a corporation of Delaware. DEODORANT. Class 6.

277,263. LIPEOMETER. Registered Nov. 11, 1930. Schwartz Laboratories, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 11, 1950. MEASURING DEVICE FOR DETERMINING THE PERCENTAGE OF FAT OR OILS IN A SUBSTANCE CONTAINING THE SAME. Class 26.

277,830. CORINCO. Registered Nov. 25, 1930. Cork Insulation Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 25, 1950. CORK BOARD, CORK PIPE COVERING, CORK MACHINERY INSULATION, ACOUSTICAL CORK BOARD, ETC. Class 12.

277,895. "COLORBRITE" AND DRAWING. Registered Dec. 2, 1930. Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y. Renewed Dec. 2, 1950, to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey. TRANSPARENT WRAPPING PAPER. Class 37.

277,910. MISS OHIO. Registered Dec. 2, 1930. Robert Emmett Clark, doing business as R. E. Clark Milling Company, Chillicothe, Ohio. Renewed Dec. 2, 1950. WHEAT FLOUR. Class 46.

278,448. "'FASHION FOLLOWS THE WINGED FOOT"' AND DRAWING. Registered Dec. 16, 1930. Delpark, Inc. Renewed Dec. 16, 1950, to Delpark, Incorporated, Newark, N. J., a corporation of New Jersey. DRESS SHIRTS, NEGLIGEE SHIRTS, VESTS FOR OUTER WEAR, ETC. Class 39.

278,604. PYKE'S PEAK. Registered Dec. 23, 1930. Pyke Mfg. Co., Salt Lake City, Utah a, corporation of Utah. Renewed Dec. 23, 1950. WORK SHIRTS, OVERALLS, PANTS, BREECHES, ETC. Class 39.

279,282. CORINCO. Registered Jan. 13, 1931. Cork Insulation Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 13, 1951. CORK-COVERING PAINT AND CORK-COVERING BRINE PUTTY. Class 16.

279,457. 17. Registered Jan. 13, 1931. The Atwood Machine Company, Stonington, Conn. Renewed Jan. 13, 1951, to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts. SPINNING AND TWISTING SPINDLES. Class 23.

279,458. AD. Registered Jan. 13, 1931. The Atwood Machine Company, Stonington, Conn. Renewed Jan. 13, 1951, to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts. SPINNING AND TWISTING SPINDLES. Class 23.

279,459. A. Registered Jan. 13, 1931. The Atwood Machine Company, Stonington, Conn. Renewed Jan. 13, 1951, to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts. SPINNING AND TWISTING SPINDLES. Class 23.

279,460. J. Registered Jan. 13, 1931. The Atwood Machine Company, Stonington, Conn. Renewed Jan. 13, 1951, to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts. SPINNING AND TWISTING SPINDLES. Class 23.

279,625. "GRIFFIN" AND DRAWING. Registered Jan. 20, 1931. Griffin Manufacturing Company, Inc., New York, N. Y. Renewed Jan. 20, 1951, to Griffin Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York. CLEANING MATERIALS AND CLEANING FLUIDS FOR CLOTHES, FABRICS, AND LEATHER; ETC. Class 4.

279,633. GOLDEN WAY. Registered Jan. 20, 1931. Harter Packing Company, Yuba City, Calif., a corporation of California. Renewed Jan. 20, 1951. CANNED FRUITS. Class 46.

279,634. SABLE. Registered Jan. 20, 1931. Harter Packing Company, Yuba City, Calif., a corporation of California. Renewed Jan. 20, 1951. CANNED FRUITS. Class 46.

279,635. BRITEWAY. Registered Jan. 20, 1931. Harter Packing Company, Yuba City, Calif., a corporation of California. Renewed Jan. 20, 1951. CANNED FRUITS. Class 46.

279,668. KURV-EEZ. Registered Jan. 20, 1931. Hickok Manufacturing Co. Inc., Rochester, N. Y., a corporation of New York. Renewed Jan. 20, 1951. MEN'S GARTERS OR HOSE SUPPORTERS. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

436,224. "DL" AND DESIGN. Registered Jan. 27, 1948. Atlantic Steel Company, Atlanta, Ga. FORGINGS. Class 14. Disclaimed as follows: "The registrant disclaims all right in or to the letters "DL" unless separated by a letter or numeral of equal or greater prominance than the letters "DL"."

508,817. "COAT OF ARMS" AND DESIGN. Registered Apr. 19, 1949. Dun & Bradstreet, Inc., New York, N. Y. MAGAZINES, LEAFLETS, ETC. Class 38. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, line 2, "New York" should be *Delaware.*

526,318. INVISIGRIP. Registered June 13, 1950. The Glemby Company, Inc., New York, N. Y. HAIR NETS. Class 39. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, lines 2 and 3, "New York" should be *Delaware.*

527,084. MIEHLE. Registered July 4, 1950. Miehle Printing Press & Manufacturing Company, Chicago, Ill. PRINTING PRESSES. Class 23. Corrected as follows: In the certificate, lines 3 and 4, for "a corporation of Delaware" read *a corporation of Illinois.*

527,640. MYERS. Registered July 18, 1950. The F. E. Myers & Bro. Company, Ashland, Ohio. HAND- AND POWER-OPERATED RECIPROCATING, DEEP-WELL AND SHALLOW-WELL PUMPS, ETC. Class 23. Corrected as follows: In the statement, line 7, the comma following "reciprocating" should be deleted; line 9, "hand-operated" should be deleted; and in line 10, between the words "centrifugal jet" a hyphen should be inserted.

528,176. "GEORG JENSEN INC." AND DESIGN. Registered Aug. 1, 1950. Georg Jensen Inc., New York, N. Y. CLOCKS, WATCHES, AND WATCHES AND ATTACHED WATCH BRACELETS SOLD AS A SINGLE UNIT. Class 27. Corrected as follows: In the statement, first column, line 16, after the word "with" insert *the provisions of section 2(f) of.*

528,177. "GEORG JENSEN INC." AND DESIGN. Registered Aug. 1, 1950. Georg Jensen Inc., New York, N. Y. FLATWARE FOR TABLE USE, HOLLOWWARE FOR TABLE AND DECORATIVE USES, ETC. Class 28. Corrected as follows: In the statement, second column, line 4, description of merchandise, for "metals" read *medals*; line 12, after the word "with" insert *the provisions of section 2(f) of*; line 18, after "use" and before the period, insert *ordered by the accompanying letter.*

528,912. SHINA DISH. Registered Aug. 8, 1950. The Perfex Company, Shenandoah, Iowa. SOAPLESS DETERGENT FOR HOUSEHOLD USE. Class 52. Corrected as follows: The declaration should read as follows:

J. C. Rapp, being duly sworn, deposes and says that he is a member of the firm of The Perfex Company, the applicant named in the foregoing statement, that he believes that said firm is the owner of the trade-mark, which is in use in commerce among the several States, and that no other person, firm, corporation or association, to the best of his knowledge and belief, has the right to use such mark in commerce which may lawfully be regulated by Congress, either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive, with the exception of applicant's wholly owned related company, Perfex Manufacturing Company, a corporation of the State of Nebraska, with its principal offices and place of business at 9th and Howard Streets, Omaha, Nebraska; that the drawing and description truly represent the trade-mark sought to be registered, that the specimens show the trade-mark as actually used in connection with the goods, that the mark has been in lawful use in such commerce upon or in connection with the goods for the year preceding the filing of this declaration, and that the facts set forth in the statement are true.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(e), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

270,983. "CAVANAGH," ETC. AND REPRESENTATION OF COAT OF ARMS. Registered May 20, 1930. Renewed May 20, 1950. John Cavanagh, Ltd. HAT-BOXES IN THE NATURE OF LUGGAGE, HAT TRUNKS, ETC. Class 3. New certificate under section 7(c) issued Nov. 7, 1950, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware.

280,532. COMPANION. Registered Feb. 17, 1931. Knox Hat Company, Inc. HATS FOR MEN. Class 39. New certificate under section 7(c) issued Nov. 7, 1950, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware.

395,369. GLEN ALAN. Registered May 19, 1942. Nicholas & Co., Incorporated Importers. BLENDED SCOTCH WHISKEY. Class 49. New certificate under section 7(c) issued Nov. 7, 1950, to Sherry Wine & Spirits Co., Inc., New York, N. Y., a corporation of New York.

526,196. "SELF-CONFORMING". Registered June 13, 1950. Byer-Rolnick Company. MEN'S HATS. Class 39. New certificate under section 7(c) issued Nov. 7, 1950, to Resistol Hats, Inc., Dallas, Tex., a corporation of Delaware.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 390,925. Registered Oct. 14, 1941. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa. Republished by John Leroy Coble, Aliquippa, Pa.

SINKRITE

FOR POWDER INSULATION FOR TOPS OF INGOT MOLDS.
Claims use since Aug. 24, 1940.

CLASS 2

RECEPTACLES

Reg. No. 120,264. Registered Jan. 29, 1918. INDIVIDUAL DRINKING CUP CO. INC., New York, N. Y. Republished by Dixie Cup Company, Chicago, Ill., a corporation of Delaware.

DIXIE

FOR DRINKING CUPS, CARTONS MADE OF PAPER, CARDBOARD, OR A CARDBOARD-LIKE MATERIAL, AND CONTAINERS FOR BEVERAGES, CONFECTIONS, AND FANCY AND STAPLE FOODSTUFFS.
Claims use since June 15, 1917.

Reg. No. 223,766. Registered Feb. 8, 1927. INDIVIDUAL DRINKING CUP CO., INC., Easton, Pa. Republished by Dixie Cup Company, Chicago, Ill., a corporation of Delaware.

DIXIES

FOR PAPER DRINKING CUPS AND PAPER CUPS FOR BEVERAGES, ICE CREAMS, CONFECTIONS, FOODSTUFFS, AND OTHER MERCHANDISE, AND PAPER INCLOSING CARTONS OR CONTAINERS THEREFOR.
Claims use since April 1921.

Reg. No. 420,379. Registered Apr. 9, 1946. DIXIE CUP COMPANY, Chicago, Ill., a corporation of Delaware. Republished by registrant.

The word "Cup" is disclaimed apart from the mark as shown.
FOR PAPER CUPS.
Claims use since Apr. 7, 1945.

Reg. No. 424,535. Registered Oct. 8, 1946. DIXIE CUP COMPANY, Chicago, Ill., a corporation of Delaware. Republished by registrant.

The words "By Cup Co." are disclaimed apart from the mark as shown.
FOR PAPER CUPS.
Claims use since Dec. 4, 1945.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 275,460. Registered Sept. 23, 1930. AR. WINARICK, INC., New York, N. Y., a corporation of New York. Republished by registrant.

Fore

FOR ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, OBESITY ASTRINGENTS, DRY ROUGES, FACE BLEACHES, FACE PACKS, EYEBROW AND EYELASH GROWER, EYEDROPS, HAND LOTIONS, SKIN LOTIONS, AFTER-SHAVING LOTIONS, POMADES, FACE POWDERS, TALCUM POWDERS, SACHETS, HAIR SALVES, HAIR ELIXIRS, DANDRUFF PREPARATIONS, HAIR TONICS, HAIR OILS, SHAMPOOS, HAIR DYES, BATH SALTS, SMELLING SALTS, LIPSTICKS, INCENSE, TOOTH POWDERS, MOUTH WASHES, DENTIFRICES, TOOTH PASTES, NAIL POWDERS, NAIL CREAMS, NAIL BLEACHES, WITCH-HAZEL, PEROXIDE, PETROLEUM JELLIES, WITCH-HAZEL SALVES, CAMPHOR CREAMS, FOOT POWDERS, CORN SALVES, DEODORANTS, DISINFECTANTS, BAY RUM, PERFUMES, AND TOILET WATERS.
Claims use since May 1, 1930.

Reg. No. 409,028. Registered Sept. 12, 1944. BOTANY WORSTED MILLS, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

FOR LANOLIN AND LANOLIN TOILET PREPARATIONS—NAMELY, CREAM AND LOTION.
Claims use since Oct. 19, 1943.

CLASS 10

FERTILIZERS

Reg. No. 373,639. Registered Dec. 12, 1939. HYDROPONIC CHEMICAL COMPANY, INC., New York, N. Y., a corporation of New York. Republished by registrant, present address Copley, Ohio.

HYPONeX

FOR PLANT FOOD (HYDROPONIC CHEMICALS FOR SOIL OR SOILLESS CULTURE).
Claims use since June 28, 1939.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 34,685. Registered May 22, 1900. ACME CEMENT PLASTER COMPANY, St. Louis, Mo. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

CLIMAX

FOR PLASTER, CEMENT, CALCIMINE, AND CEMENT-PLASTER.
Claims use since 1889.

Reg. No. 87,202. Registered July 2, 1912. GENERAL ROOFING MANUFACTURING COMPANY, East St. Louis, Ill. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

Certain-teed

FOR ROOFING-FELT, DEADENING-FELT, BUILDING-PAPER, AND ROOFING-PAPER.
Claims use since Jan. 2, 1912.

Reg. No. 103,781. Registered Apr. 13, 1915. GENERAL ROOFING MANUFACTURING COMPANY, East St. Louis, Ill. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

Certain-teed

FOR PREPARED ROOFING, ROOFING FELTS, DEADENING FELTS, BUILDING PAPERS, ROOF COATING, BUILDING CONSTRUCTION CEMENTS, WALL BOARD, AND PLASTER BOARD.
Claims use since Jan. 2, 1912.

Reg. No. 132,626. Registered June 29, 1920. THE BEAVER COMPANY, Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

BEAVER

FOR PREPARED SHEET ROOFING, ROOFING TILES, SHINGLES, AND ROOFING CEMENTS.
Claims use since Nov. 1, 1919.

Reg. No. 143,764. Registered June 7, 1921. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

VULCANITE

FOR SHINGLES, ROOFING TILE, ROOFING SLABS, COMPOSITION ROOFING, ROOFING CEMENT.
Claims use since March 1900.

Reg. No. 144,293. Registered June 28, 1921. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

Jumbo

FOR SHINGLES, ROOFING TILE, ROOFING SLABS, COMPOSITION ROOFING, AND ROOFING CEMENT.
Claims use since Jan. 1, 1911.

Reg. No. 195,989. Registered Mar. 10, 1925. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

Durite

FOR PREPARED ROOFING.
Claims use since June 24, 1918.

Reg. No. 199,923. Registered June 23, 1925. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

SATIN SPAR

FOR FINISHING PLASTER.
Claims use since Mar. 15, 1907.

Reg. No. 199,924. Registered June 23, 1925. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

SUNFLOWER

FOR PLASTER.
Claims use since Nov. 3, 1914.

Reg. No. 208,991. Registered Feb. 16, 1926. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

JUMBO

FOR WALL BOARD.
Claims use since Jan. 12, 1924.

Reg. No. 221,037. Registered Nov. 23, 1926. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

BEAVER

FOR FIBER WALL BOARD, GYPSUM BOARD, GYPSUM PLASTER, PREPARED SHEET ROOFING, SHINGLES, SHINGLE SLABS, AND ROOFING CEMENTS.
Claims use since Mar. 19, 1923.

Reg. No. 276,487. Registered Oct. 21, 1930. N. V. KRISTAL-, GLAS-EN AARDEWERKFABRIEKEN "DE SPHINX" VOORHEEN PETRUS REGOUT & CO., Maastricht, Netherlands, a corporation organized under the Kingdom of the Netherlands. Republished by registrant.

The name "Maastricht" is disclaimed apart from the mark as shown.
FOR TILES.
Claims use since the year 1883.

Reg. No. 281,086. Registered Mar. 10, 1931. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

Brick-tex

FOR PROTECTIVE SIDING FOR BUILDINGS, WALLS, ETC., TO SIMULATE BRICKWORK AND MADE FROM SHEET ROOFING MATERIALS SUCH AS SLATE-SURFACED ASPHALT-SATURATED FELT ROOFING.
Claims use since Aug. 20, 1930.

Reg. No. 283,243. Registered May 19, 1931. KALITE COMPANY, LIMITED, Pasadena, Calif. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

KALITE

FOR ACOUSTICAL PLASTER.
Claims use since Aug. 20, 1930.

Reg. No. 314,572. Registered July 3, 1934. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

CERTROCK

FOR PLASTER OF CALCINED GYPSUM FOR MAKING CASTS AND MOULDS IN THE PRODUCTION OF ORNAMENTS, STATUARY, MOULDINGS AND THE LIKE.
Claims use since Nov. 29, 1932.

Reg. No. 343,676. Registered Mar. 2, 1937. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

FOR COMPOSITION WALL BOARDS, GYPSUM WALL BOARDS AND GYPSUM LATH, AND FIBRE WALL BOARDS AND LATH AND THE LIKE.
Claims use since Jan. 10, 1911.

Reg. No. 357,048. Registered May 24, 1938. MACKLANBURG-DUNCAN COMPANY, Oklahoma City, Okla. Republished by Macklanburg-Duncan Company (1948), Oklahoma City, Okla., a corporation of Oklahoma.

Nu-GARD

The word "Gard" is disclaimed apart from the mark as shown.
FOR FIBROUS AND METAL WEATHER STRIP AND AUTOMATIC DOOR BOTTOMS.
Claims use since Aug. 1, 1937.

Reg. No. 361,509. Registered Oct. 18, 1938. MACKLANBURG-DUNCAN COMPANY, Oklahoma City, Okla. Republished by Macklanburg-Duncan Company (1948), Oklahoma City, Okla., a corporation of Oklahoma.

ALACROME

FOR FIBROUS AND METAL WEATHER STRIP, METAL MOLDING, AND AUTOMATIC DOOR BOTTOMS
Claims use since May 25, 1938.

Reg. No. 371,297. Registered Sept. 19, 1939. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

PERFOLATH

FOR GYPSUM WALLBOARD AND GYPSUM LATH USED AS CONSTRUCTION MATERIAL.
Claims use since Apr. 3, 1939.

Reg. No. 382,197. Registered Oct. 22, 1940. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

The words "Always Easy Working," "Plasticized Plaster," and "Controlled Process" are disclaimed apart from the mark.
FOR GYPSUM PLASTERS USED AS CONSTRUCTION MATERIAL.
Claims use since July 13, 1939.

Reg. No. 390,563. Registered Sept. 30, 1941. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

MILLERIZED

FOR SHEETS OF FELTED FIBROUS MATERIAL IMPREGNATED WITH BITUMINOUS WATER-RESISTING MATERIAL, ROOFING AND SHINGLES AND SIDING OF FELT BASE SATURATED WITH ASPHALT SATURANT, USED AS CONSTRUCTION MATERIALS.
Claims use since Jan. 15, 1933.

Reg. No. 390,565. Registered Sept. 30, 1941. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

The words "Protective Process of Saturation" and "For Longer Life" are disclaimed apart from the mark as shown.
FOR SHEETS OF FELTED FIBROUS MATERIAL, IMPREGNATED WITH BITUMINOUS WATER-RESISTING MATERIAL, ROOFING AND SHINGLES AND SIDING OF FELT BASE SATURATED WITH ASPHALT SATURANT AND USED AS CONSTRUCTION MATERIALS.
Claims use since Jan. 15, 1933.

Reg. No. 401,960. Registered June 22, 1943. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

GUARD

FOR SHEET ROOFING MATERIAL OF FELT BASE SATURATED WITH A BITUMINOUS SATURANT AND USED AS CONSTRUCTION MATERIAL.
Claims use since Oct. 1, 1915.

Reg. No. 429,972. Registered June 3, 1947. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

FOR CEMENTS, AND PARTICULARLY BITUMINOUS CEMENTS, FOR SECURING TOGETHER COURSES OF ROOFING AND THE LIKE, AND FOR WATERPROOFING AND REPAIRING ROOFS OR SIMILAR STRUCTURES; BITUMINOUS ROOF COATINGS; AND ASBESTOS ROOF COATINGS.
Claims use since 1918.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 271,644. Registered June 17, 1930. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Republished by Firth Sterling Steel & Carbide Corp., McKeesport, Pa., a corporation of Pennsylvania.

The words "Center Free" are disclaimed apart from the mark as shown.
FOR STEEL BARS OF VARIOUS SHAPES AND SIZES, FORGINGS, AND BLOCKS, DISCS, AND PIECES OF STEEL.
Claims use since Dec. 7, 1929.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 275,460. Registered Sept. 23, 1930. AR. WINARICK, INC., New York, N. Y., a corporation of New York. Republished by registrant.

Fore

FOR ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, OBESITY ASTRINGENTS, DRY ROUGES, FACE BLEACHES, FACE PACKS, EYEBROW AND EYELASH GROWER, EYEDROPS, HAND LOTIONS, SKIN LOTIONS, AFTER-SHAVING LOTIONS, POMADES, FACE POWDERS, TALCUM POWDERS, SACHETS, HAIR SALVES, HAIR ELIXIRS, DANDRUFF PREPARATIONS, HAIR TONICS, HAIR OILS, SHAMPOOS, HAIR DYES, BATH SALTS, SMELLING SALTS, LIPSTICKS, INCENSE, TOOTH POWDERS, MOUTH WASHES, DENTIFRICES, TOOTH PASTES, NAIL POWDERS, NAIL CREAMS, NAIL BLEACHES, WITCH-HAZEL, PEROXIDE, PETROLEUM JELLIES, WITCH-HAZEL SALVES, CAMPHOR CREAMS, FOOT POWDERS, CORN SALVES, DEODORANTS, DISINFECTANTS, BAY RUM, PERFUMES, AND TOILET WATERS.
Claims use since May 1, 1930.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 276,878. Registered Oct. 28, 1930. THE BLACK & DECKER MANUFACTURING COMPANY, Towson, Md., a corporation of Maryland. Republished by registrant.

BLACK & DECKER
Portable Electric Tools

The words "Portable Electric Tools" and "With the Pistol Grip and Trigger Switch" are disclaimed apart from the mark as shown.
FOR PORTABLE ELECTRIC DRILLS AND PARTS THEREOF, PORTABLE ELECTRIC VALVE GRINDERS; PORTABLE ELECTRIC SCREW, BOLT, AND NUT DRIVERS; ELECTRIC AIR PUMPS AND AIR COMPRESSORS, PORTABLE ELECTRIC AUGERS AND POST GRINDERS, ELECTRIC BENCH AND FLOOR GRINDERS, AND ELECTRIC AERIAL GRINDERS.
Claims use since Apr. 18, 1930.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 273,077. Registered July 22, 1930. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Republished by Firth Sterling Steel & Carbide Corp., McKeesport, Pa., a corporation of Pennsylvania.

MECHANIGRIPT

FOR TOOLS FOR TURNING, BORING, PLANING, SLOTTING, THREADING, CHASING, BROACHING, KNURLING, DRILLING, MILLING, REAMING, PUNCHING, SHEARING, SCRATCHING, FILING, SCRAPING, SPINNING, ROLLING, SAWING, STAMPING, PIERCING, EXTRUDING, TAPPING AND CHISELING, PRIMARILY INTENDED FOR APPLICATION BY HAND AND MACHINE IN THE USUAL MANNER TO THE WORKABLE MATERIALS, SUCH AS METAL, WOOD, NATURAL AND ARTIFICIAL STONES, GLASS, BAKELITE, RUBBER, ETC.
Claims use since Jan. 23, 1930.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 438,641. Registered May 11, 1948. THE MAGNAVOX COMPANY, Fort Wayne, Ind., a corporation of Delaware. Republished by registrant.

MAGNAVISION

FOR UNITARY ELECTRICALLY OPERATED COMBINATION APPARATUS FOR THE SYNCHRONOUS TRANSMISSION OR REPRODUCTION OF LIGHT AND SOUND EFFECTS OR PARTS THEREOF.
Claims use since Dec. 3, 1942.

CLASS 31

FILTERS AND REFRIGERATORS

Reg. No. 443,980. Registered May 16, 1950. LUBER-FINER INCORPORATED, Los Angeles, Calif., a corporation of California. Republished by registrant.

CELL-U-ROLL

The word "Roll" is disclaimed apart from the mark as shown.
FOR REPLACEABLE FILTER PACKS FOR OIL FILTRATION IN LUBRICATION SYSTEMS OF INTERNAL COMBUSTION ENGINES.
Claims use since June 26, 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 177,564. Registered Dec. 18, 1923. THE GUNN FURNITURE COMPANY, Grand Rapids, Mich. Republished by The Gunn Furniture Company (1934), Grand Rapids, Mich., a corporation of Michigan.

"LINO"

FOR COUNTERS, CAFETERIA TABLES, OFFICE TABLES, TABLES FOR HOUSEHOLD USE, DRESSERS, TYPEWRITER TABLES AND DESKS; STANDS FOR GENERAL USE IN STORES, HOTELS, HOUSES, ETC.; AND TOPS MADE CHIEFLY OF WOOD MADE AND SOLD SEPARATELY FOR USE IN MAKING DESKS, COUNTERS, TABLES, DRESSERS, AND STANDS.
Claims use since on or about June 1, 1920.

CLASS 37

PAPER AND STATIONERY

Reg. No. 444,029. Registered June 13, 1950. CURTIS 1000, INCORPORATED, Hartford, Conn., a corporation of Minnesota. Republished by registrant, present address St. Paul Minn., and Hartford, Conn.

POLAR WHITE

The word "White" is disclaimed apart from the mark as shown.
FOR CORRESPONDENCE ENVELOPES OF PAPER.
Claims use since May 27, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 133,475. Registered July 27, 1920. THE NEW YORK TIMES COMPANY, New York, N. Y. Republished by Wide World Photos, Inc., New York, N. Y., a corporation of New York.

Wide World

FOR PHOTOGRAPHS AND REPRINTS THEREOF.
Claims use since July 1, 1919.

Reg. No. 159,253. Registered Sept. 26, 1922. THE AMERICAN LUMBERMAN, Chicago, Ill. Republished by The American Lumberman, Inc., Chicago, Ill., a corporation of Illinois.

American Lumberman

FOR WEEKLY PERIODICAL PUBLICATION.
Claims use since Jan. 1, 1899.

Reg. No. 271,966. Registered June 24, 1930. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

MODEST MAIDENS

FOR DAILY PUBLICATIONS OF STRIPS AND PANELS CONSISTING OF COMIC FEATURES.
Claims use since Jan. 21, 1930.

Reg. No. 271,967. Registered June 24, 1930. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

HOMER HOOPEE

FOR DAILY PUBLICATIONS OF STRIPS AND PANELS CONSISTING OF COMIC FEATURES.
Claims use since Jan. 21, 1930.

Reg. No. 271,968. Registered June 24, 1930. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant

SCORCHY SMITH

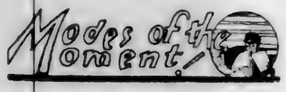
FOR DAILY PUBLICATIONS OF STRIPS AND PANELS CONSISTING OF COMIC FEATURES.
Claims use since Jan. 21, 1930.

Reg. No. 289,405. Registered Nov. 24, 1931. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

NEIGHBORLY NEIGHBORS

FOR SERIES OF CARTOONS.
Claims use since Jan. 1, 1931.

Reg. No. 294,403. Registered May 24, 1932. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.



FOR NEWSPAPER ARTICLES.
Claims use since May 1927.

Reg. No. 308,419. Registered Dec. 5, 1933. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

DICKIE DARE

FOR NEWSPAPER CARTOONS, PUBLISHED IN A CONTINUING SERIES.
Claims use since July 31, 1933.

Reg. No. 356,551. Registered May 3, 1938. EARL L. DOUGLASS, Germantown, Philadelphia, Pa. Republished by registrant.

Strength for The Day

The word "Day" is disclaimed apart from the mark as shown.
FOR CONTINUING SERIES OF PUBLICATIONS—NAMELY, A REGULAR COLUMN IN A NEWSPAPER.
Claims use since Oct. 1, 1934.

Reg. No. 383,442. Registered Dec. 10, 1940. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

THE ADVENTURES OF PATSY

FOR SERIES OF CARTOONS.
Claims use since March 1935.

Reg. No. 383,446. Registered Dec. 10, 1940. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

OAKY DOAKS

FOR SERIES OF CARTOONS.
Claims use since June 1935.

Reg. No. 383,447. Registered Dec. 10, 1940. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

OH, DIANA!

FOR SERIES OF CARTOONS.
Claims use since March 1931.

Reg. No. 400,199. Registered Feb. 16, 1943. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

THINGS TO COME

FOR COMIC STRIP OR PANEL PUBLISHED FROM TIME TO TIME.
Claims use since Nov. 29, 1941.

Reg. No. 401,258. Registered May 4, 1943. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

FOR NEWS STORIES AND NEWS PHOTOGRAPHS.
Claims use since Sept. 26, 1942.

Reg. No. 411,547. Registered Jan. 23, 1945. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

The Associated Press

The word "Press" is disclaimed apart from the mark as shown.
FOR NEWS STORIES AND NEWS PHOTOGRAPHS.
Claims use since 1848.

Reg. No. 432,616. Registered Sept. 9, 1947. THE ASSOCIATED PRESS, New York, N. Y., a corporation of New York. Republished by registrant.

TRUE ENOUGH

FOR SERIES OF CARTOONS.
Claims use since Mar. 11, 1946.

CLASS 39

CLOTHING

Reg. No. 274,565. Registered Sept. 2, 1930. BLOOMINGDALE BROS., INC., New York, N. Y. Republished by Federated Department Stores, Inc., Cincinnati, Ohio, a corporation of Delaware.

The words "Sport Wear," "New York," and "London" are disclaimed apart from the mark as shown.
FOR MEN'S SUITS, COATS, TROUSERS, OVERCOATS, RAINCOATS, SWEATERS, DRESSING GOWNS OR ROBES, AND NEGLIGEE SHIRTS.
Claims use since Feb. 26, 1930.

Reg. No. 277,751. Registered Nov. 25, 1930. CHALFONT HOSIERY MILLS, Chalfont, Pa., a corporation of Pennsylvania. Republished by registrant.

The word "Chalfont" is disclaimed apart from the mark as shown.
FOR FULL-FASHIONED SILK HOSIERY.
Claims use since Mar. 1, 1930.

Reg. No. 318,081. Registered Oct. 16, 1934. CANNON SHOE COMPANY, Baltimore, Md. Republished by Cannon Shoe Company, Baltimore, Md., a corporation of Maryland.

The expressions "Shoes for Little Folks," "Style" and "Size" are disclaimed apart from the mark as shown.
FOR LEATHER SHOES.
Claims use since Apr. 4, 1934.

Reg. No. 343,598. Registered Feb. 23, 1937. BOTANY WORSTED MILLS, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

The representation of a necktie or neckties is disclaimed apart from the mark as shown.
FOR NECKTIES.
Claims use since June 10, 1936.

Reg. No. 368,002. Registered June 6, 1939. CAMBRIDGE RUBBER COMPANY, Cambridge, Mass. Republished by The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md., a corporation of Maryland.

Vul-Cork

The word "Cork" is disclaimed apart from the mark as shown.
FOR SHOES, MADE OF LEATHER, RUBBER, OR FABRIC, OR COMBINATIONS OF SAID MATERIALS, SOLES, AND HEELS.
Claims use since Aug. 31, 1938.

Reg. No. 396,207. Registered June 30, 1942. E-CUT KNITTING MILLS, Royersford, Pa. Republished by E-Cut Knitting Mills, Royersford, Pa., a co-partnership, assignor to E-Cut Knitting Mills, Inc., a corporation of Pennsylvania.

Speedon BY E-CUT

FOR INFANTS' AND CHILDREN'S KNITTED UNDERWEAR.
Claims use since about February 1938.

Reg. No. 404,924. Registered Dec. 28, 1943. KORDAY SPORTSWEAR, INC., New York, N. Y., a corporation of New York. Republished by registrant.
The word "Blues" is disclaimed apart from the mark as shown.

SEA BLUES

FOR WOMEN'S, MISSES' AND GIRLS' SLACKS, BLOUSES, AND SKIRTS.
Claims use since May 26, 1943.

Reg. No. 429,000. Registered Apr. 15, 1947. JOHN ALEXANDER OF NEW HAVEN, INCORPORATED, New Haven, Conn., a corporation of Connecticut. Republished by registrant.

FOR MEN'S JACKETS.
Claims use since June 1, 1944.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 88,061. Registered Aug. 27, 1912. COLLINS & AIKMAN CO., Philadelphia, Pa. Republished by Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware.

CANDACO

FOR COTTON, MOHAIR, RAMIE, AND LINEN PLUSHES, VELOURS, AND VELVETS IN THE PIECE.
Claims use since Jan. 1, 1899.

Reg. No. 218,549. Registered Sept. 28, 1926. COLLINS & AIKMAN COMPANY, Philadelphia, Pa. Republished by Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware.

CA-VEL

FOR PILE FABRICS IN PIECE GOODS AND CUT LENGTHS.
Claims use since about Apr. 30, 1925.

Reg. No. 218,550. Registered Sept. 28, 1926. COLLINS & AIKMAN COMPANY, Philadelphia, Pa. Republished by Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware.

CAVEL

FOR PILE FABRICS IN PIECE GOODS AND CUT LENGTHS.
Claims use since about Apr. 30, 1925.

Reg. No. 308,734. Registered Dec. 19, 1933. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CANGORA

FOR WOOLEN FABRICS IN THE PIECE.
Claims use since May 25, 1933.

Reg. No. 345,926. Registered May 11, 1937. EMPIRE SILK COMPANY, Paterson, N. J. Republished by I. Schneierson & Sons, Inc., New York, N. Y., a corporation of New York.

Empire Loomcraft Fabrics

The word "Fabrics" is disclaimed apart from the mark as shown.
FOR SILK PIECE GOODS, ARTIFICIAL SILKS, RAYON, AND MIXTURES OF THE SAME.
Claims use since Oct. 31, 1935.

Reg. No. 365,779. Registered Mar. 21, 1939. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

"DOESKIN VELVET"

The notation "Doeskin Velvet" is disclaimed apart from the mark as shown.
FOR PILE FABRICS COMPRISING COTTON, SILK, WOOL, MOHAIR, OR SYNTHETIC FIBERS IN THE PIECE AND CUT LENGTHS.
Claims use since June 9, 1937.

Reg. No. 374,152. Registered Jan. 2, 1940. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

Cavelteen

FOR COTTON PILE FABRICS IN THE PIECE.
Claims use since June 27, 1939.

Reg. No. 378,362. Registered June 4, 1940. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

STARGLEAM

FOR COTTON PILE FABRICS IN THE PIECE.
Claims use since Jan. 26, 1940.

Reg. No. 393,796. Registered Mar. 3, 1942. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

LAM-VEL

FOR PILE FABRICS IN THE PIECE CONTAINING WOOL AND MOHAIR IN THE PILE.
Claims use since Sept. 25, 1941.

Reg. No. 396,027. Registered June 23, 1942. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVEL-TWILL

The word "Twill" is disclaimed apart from the mark as shown.
FOR WORSTED FABRICS OF A TWILL WEAVE FOR WOMEN'S AND MEN'S SUITINGS IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Jan. 9, 1942.

Reg. No. 397,445. Registered Sept. 8, 1942. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVELKING

FOR WORSTED FABRICS IN THE PIECE AND CUT LENGTHS SUITABLE FOR THE OUTER MATERIAL OF MEN'S SUITS AND TOPCOATS.
Claims use since on or about Jan. 6, 1942.

Reg. No. 397,447. Registered Sept. 8, 1942. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVEL-DUCK

The word "Duck" is disclaimed apart from the mark as shown.
FOR COTTON DUCK FABRICS IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Feb. 3, 1942.

Reg. No. 401,149. Registered Apr. 27, 1943. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVELCREST

FOR WORSTED FABRICS, PRIMARILY FOR WOMEN'S OUTER WEAR, IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Sept. 3, 1942.

Reg. No. 401,150. Registered Apr. 27, 1943. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVELPOINT

FOR BLENDED FABRICS WHICH ARE PREDOMINANTLY WOOL AND WHICH ARE PRIMARILY FOR WOMEN'S OUTER WEAR IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Aug. 14, 1942.

Reg. No. 401,151. Registered Apr. 27, 1943. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

CAVEL-SPUN

The word "Spun" is disclaimed apart from the mark as shown.
FOR WORSTED FABRICS FOR WOMEN'S AND MEN'S SUITINGS IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Sept. 2, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 199,755. Registered June 16, 1925. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

Certain-teed

FOR DENTAL PLASTER AND SURGICAL PLASTER OF PARIS.
Claims use since Nov. 29, 1924.

Reg. No. 369,590. Registered Aug. 1, 1939. COLLEGE OF ELECTRONIC MEDICINE, BLANCHE & JEANNE B. ABRAMS MEMORIAL FOUNDATION, San Francisco, Calif. Republished by Electronic Medical Foundation, San Francisco, Calif., a corporation of California.

The word "Radioscope" is disclaimed apart from the mark as shown.
FOR DIAGNOSTIC TUNING DEVICES FOR MEDICAL USE.
Claims use since Sept. 23, 1938.

Reg. No. 417,292. Registered Oct. 23, 1945. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

BEAVER

FOR DENTAL PLASTER OF PARIS.
Claims use since about Nov. 1, 1923.

Reg. No. 417,600. Registered Nov. 6, 1945. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill., a corporation of Maryland. Republished by registrant, present address Ardmore, Pa.

BEAVER

FOR DENTAL PLASTER OF PARIS.
Claims use since about Nov. 1, 1923.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

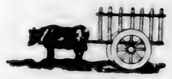
Reg. No. 177,734. Registered Dec. 25, 1923. STODDARD MILL & GRAIN COMPANY, Advance, Mo. Republished by The Scott County Milling Company, Sikeston, Mo., a corporation of Missouri.

FINEST SILK

FOR WHEAT FLOUR.
Claims use since January 1908.

Reg. No. 268,633. Registered Mar. 18, 1930. MAPLE LEAF MILLING COMPANY LIMITED, Toronto, Ontario, Canada, a corporation organized under the laws of Canada. Republished by registrant.

RED RIVER



FOR GRAIN PRODUCTS—NAMELY, A CEREAL CONSISTING OF CRACKED AND WHOLE GRAINS.
Claims use since Oct. 5, 1926.

Reg. No. 271,883. Registered June 3, 1930. NORTHLAND MILLING COMPANY, Minneapolis, Minn. Republished by Archer-Daniels-Midland Company, Minneapolis, Minn., a corporation of Delaware.

NORTHLAND

FOR WHEAT FLOUR.
Claims use since Apr. 2, 1901.

Reg. No. 273,456. Registered Aug. 5, 1930. COMMANDER MILLING COMPANY, Minneapolis, Minn. Republished by Archer-Daniels-Midland Company, Minneapolis, Minn., a corporation of Delaware.

COMMANDANTE

FOR WHEAT FLOUR.
Claims use since Sept. 27, 1929.

Reg. No. 411,309. Registered Jan. 9, 1945. GEORGE P. GUNDLACH, Cincinnati, Ohio. Republished by G. P. Gundlach & Co., Inc., Cincinnati, Ohio, a corporation of Ohio.

Twirl

FOR ICE CREAM AND/OR A COMBINATION OF TWO VARIETIES OR FLAVORS OF ICE CREAM; A COMBINATION OF ICE CREAM AND WATER ICE; A COMBINATION OF ICE CREAM AND SHERBET; A COMBINATION OF ICE CREAM AND PREPARED FLAVORED SYRUPS AND MARSHMALLOW; A COMBINATION OF ICE CREAM AND PREPARED FRUITED SYRUPS.
Claims use since Jan. 2, 1937.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 361,322. Registered Oct. 11, 1938. WILSON DISTILLING CO. INC., Bristol, Pa. Republished by Hunter-Wilson Distilling Co., Inc., New York, N. Y., a corporation of Maryland.

WILSON

FOR WHISKEY.
Claims use since 1823.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 375,460. Registered Sept. 23, 1930. AR. WINARICK, INC., New York, N. Y., a corporation of New York. Republished by registrant.

Fore

FOR ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, OBESITY ASTRINGENTS, DRY ROUGES, FACE BLEACHES, FACE PACKS, EYEBROW AND EYELASH GROWER, EYEDROPS, HAND LOTIONS, SKIN LOTIONS, AFTER-SHAVING LOTIONS, POMADES, FACE POWDERS, TALCUM POWDERS, SACHETS, HAIR SALVES, HAIR ELIXIRS, DANDRUFF PREPARATIONS, HAIR TONICS, HAIR OILS, SHAMPOOS, HAIR DYES, BATH SALTS, SMELLING SALTS, LIPSTICKS, INCENSE, TOOTH POWDERS, MOUTH WASHES, DENTIFRICES, TOOTH PASTES, NAIL POWDERS, NAIL CREAMS, NAIL BLEACHES, WITCH-HAZEL, PEROXIDE, PETROLEUM JELLIES, WITCH-HAZEL SALVES, CAMPHOR CREAMS, FOOT POWDERS, CORN SALVES, DEODORANTS, DISINFECTANTS, BAY RUM, PERFUMES, AND TOILET WATERS.
Claims use since May 1, 1930.

Reg. No. 409,028. Registered Sept. 12, 1944. BOTANY WORSTED MILLS, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

FOR LANOLIN AND LANOLIN TOILET PREPARATIONS—NAMELY, CREAM AND LOTION.
Claims use since Oct. 19, 1943.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 275,460. Registered Sept. 23, 1930. AR. WINARICK, INC., New York, N. Y., a corporation of New York. Republished by registrant.

Fore

FOR ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, OBESITY CREAMS, REFRESHING CREAMS, OBESITY ASTRINGENTS, DRY ROUGES, FACE BLEACHES, FACE PACKS, EYEBROW AND EYELASH GROWER, EYEDROPS, HAND LOTIONS, SKIN LOTIONS, AFTER-SHAVING LOTIONS, POMADES, FACE POWDERS, TALCUM POWDERS, SACHETS, HAIR SALVES, HAIR ELIXIRS, DANDRUFF PREPARATIONS, HAIR TONICS, HAIR OILS, SHAMPOOS, HAIR DYES, BATH SALTS, SMELLING SALTS, LIPSTICKS, INCENSE, TOOTH POWDERS, MOUTH WASHES, DENTIFRICES, TOOTH PASTES, NAIL POWDERS, NAIL CREAMS, NAIL BLEACHES, WITCH-HAZEL, PEROXIDE, PETROLEUM JELLIES, WITCH-HAZEL SALVES, CAMPHOR CREAMS, FOOT POWDERS, CORN SALVES, DEODORANTS, DISINFECTANTS, BAY RUM, PERFUMES, AND TOILET WATERS.
Claims use since May 1, 1930.

Reg. No. 433,967. Registered Nov. 4, 1947. MAURICE KING, doing business as King Products Company, Brooklyn, N. Y., assignor to King Research, Inc. Republished by King Research, Inc., Brooklyn, N. Y., a corporation of New York.

Slip-Shape

FOR CHEMICAL DETERGENTS AND SOAPS FOR CLEANING WALLS, FLOORS, METALS, FABRICS, AND THE LIKE.
Claims use since July 1946.

REISSUES

NOVEMBER 7, 1950

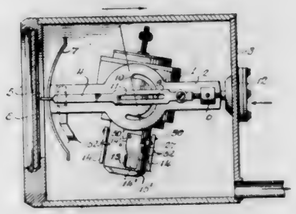
23,291

GYRO VERTICAL

Frederick D. Braddon, Babylon, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Original No. 2,409,659, dated October 22, 1946, Serial No. 388,736, April 16, 1941. Application for reissue October 22, 1948, Serial No. 55,861

14 Claims. (Cl. 33—204)



1. An automatic erecting gyro-vertical for dirigible craft having its normal operating position slightly inclined to the vertical about its athwartship axis, the erection device being so constructed and arranged that the rate of precession of the gyroscope caused thereby due to a procedure turn is sufficient to cause said inclination to be apparently maintained to the observer in the craft regardless of the resulting change in heading.

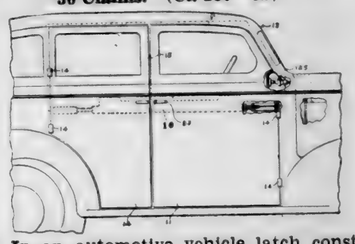
23,292

LATCH FOR AUTOMOTIVE VEHICLE DOORS

Burnie J. Craig, Los Angeles County, Calif.

Original No. 2,204,208, dated June 11, 1940, Serial No. 291,341, August 22, 1939. Application for reissue March 21, 1950, Serial No. 150,827

36 Claims. (Cl. 180—82)



33. In an automotive vehicle latch construction, an outside door handle, a bolt movable to engaged and released positions, *a pivoted dog holding the bolt in engaged position, spring means normally urging the bolt to released position, release* means *extending to a location* remote from the outside handle and operable to *move the dog to thereby* release the bolt, a remote control handle mounted on the door, means operable by the remote control handle to actuate the release means, *other release means operable to move the dog to free the bolt*, an operating member accessible to a digit of a hand engaging the outside handle, and control means extending from the operating member to the *other* release means and actuated by movement of the operating member for actuating the *other* release means.

PLANT PATENTS

GRANTED NOVEMBER 7, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

986

ROSE PLANT

Fred H. Howard, deceased, late of Montebello, Calif., by Minnie J. Howard, executrix, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.

Application November 22, 1949, Serial No. 128,839

1 Claim. (Cl. 47—61)

The new and improved variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its vigorous, well-proportioned growth; its resistance to burning in hot sun; its habit of breaking to the last eye thus enabling it to become a very prolific bloomer; its occasional truss formation of four or five flowers; and its rose colored flowers with heavy waxlike petals and abundant fragrance.

987

CHRYSANTHEMUM PLANT

Emil Prushek, Niles, Mich., assignor to The R. M. Kellogg Company, Three Rivers, Mich., a corporation of Michigan

Application November 28, 1949, Serial No. 129,715

1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant substantially as herein disclosed, characterized as to novelty by its dwarf, compact growth, its early flowering, its long blooming season, the long and consistent color life of its blooms, the large size of the blooms, the massing of the blooms to cover the foliage, and the white color of the blooms.

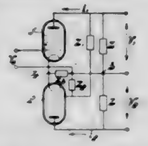
PATENTS

GRANTED NOVEMBER 7, 1950

2,528,483
CLOTHESLINE SUPPORT
James L. Brenner, San Francisco, Calif.
Application February 20, 1948, Serial No. 9,791
5 Claims. (Cl. 211—119.15)

2. In a clothes line support, a pair of parallel spaced bars, spaced members on one of said bars, each being adapted to hold an end of a clothes line, spaced winding devices on the other bar being adapted to wind the other end of each clothes line thereon, and means on said other bar for holding said winding devices against unwinding, and a supporting bracket adapted to be mounted on a supporting surface at each end of each bar, each supporting bracket having an inclined retaining slot therein, a tongue on each end of each bar fitting in the respective slots, the relative angle between the tongue and the slots and the said hooks and winding devices locating said hooks and said winding devices at the underside of said bar.

2,528,484
PHASE-INVERTER AMPLIFIER
Edmond Egbertus Carpentier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 18, 1946, Serial No. 704,127
In the Netherlands July 11, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 11, 1965
5 Claims. (Cl. 179—171)

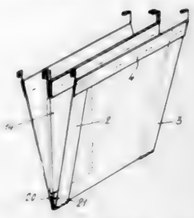


1. An electronic amplifier circuit arrangement, comprising first and second electron discharge tubes having substantially equal mutual conductances and coupled together in phase-inverting, push-pull arrangement, each of said tubes having anode, control grid and cathode electrodes, means to apply an input signal voltage to the control grid of said first tube, means to apply to said control grids a bias potential substantially equal to one half the input signal voltage comprising a first impedance element having one end thereof coupled to said cathodes, second and third impedance elements having substantially equal values and interposed between the other end of said first impedance element and the anodes of said first and second tubes respectively, a fourth impedance element coupled between the anode of said first tube and the control grid of said second tube, and a fifth impedance element coupled between the control grid of said second tube and the other end of said first impedance element, said second, fourth and fifth impedance elements having impedance values such that:

$$\frac{2}{SZ}-\frac{Z_1}{Z_1+Z_2}=A$$

where S represents the mutual conductance of said first tube, Z represents the impedance value of said second impedance element, Z_1 represents the impedance value of said fourth impedance element, Z_2 represents the impedance value of said fifth impedance element and A represents a constant.

2,528,485
FILING DEVICE
Joseph Chenouard, Paris, France
Application January 8, 1948, Serial No. 1,231
In France February 28, 1947
10 Claims. (Cl. 129—16.7)

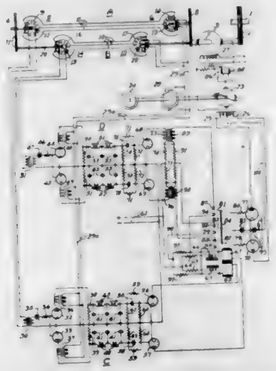


1. A filing device for use in connection with vertical filing systems, comprising a series of hanging folders positioned side by side adapted for lateral access of documents inserted therein, each hanging folder having sides and at least on the outer surface of one of said sides a folded-over portion in pocket form along the forward vertical edge of said side; and a series of separate connecting guide slips, each having two external leaves removably engaged inside two hanging folders adjacent to one another and at least one intermediate folded leaf engaged in said folded-over portion in pocket form of one of said two adjacent hanging folders.

2,528,486
ELECTRIC FOLLOW-UP CONTROL SYSTEM
Cecil Dannatt, Hale, and Frederick Harold Belsey, Stretford, Manchester, England, assignors to Metropolitan-Vickers Electrical Company Limited, London, England, a British company, and Vickers-Armstrong Limited, London, England, a British company
Application August 11, 1945, Serial No. 610,356
In Great Britain July 31, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 31, 1959
4 Claims. (Cl. 318—30)

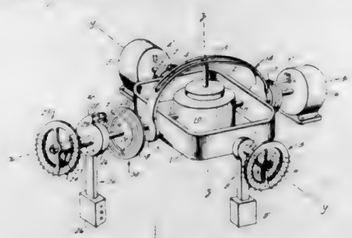
1. A follow-up control system comprising the combination with selsyn devices coupled with the

control member and the load device and arranged to produce a voltage representative of the displacement of said load device with respect to said control member and a hard valve amplifying system for amplifying said voltage with reactive means interposed between said selsyns and an output circuit of said hard valve amplifying system so as to produce in said circuit a current dependent on the rate of change of said voltage, of a metadyne machine having variator winding turns connected with said amplifying sys-



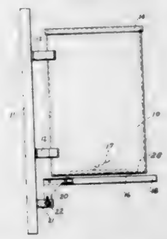
tem so as to be energised by the output of the latter and having secondary brushes connected with a winding of electric motor means for driving the load device whereby the torque imparted to the load device by said motor depends on said voltage and there is added to said torque a component which is dependent on the rate of change of said voltage and therefore of the displacement and which acts in opposition to the velocity of movement of the load device relative to the control member.

2,528,487
VERTICAL GYROSCOPE COMPENSATED FOR TURN ERRORS
John Samuel Adkins, Dayton, Ohio
Application December 31, 1947, Serial No. 794,854
6 Claims. (Cl. 74—5.47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a universally mounted vertical gyroscope for aircraft, a main gimbal ring mounted to turn about a lateral axis of said aircraft, a gyro unit including a rotor adapted to spin at high speed about a normally vertical axis, pivot means secured to opposite sides of said ring interiorly thereof and serving to pivotally mount said gyro unit on a normally horizontal axis lying at a right angle to said lateral axis, a bank gimbal bail ring mounted to turn about a fore and aft axis of said aircraft, means to maintain said spin axis of said gyro unit in the plane of said bank gimbal bail ring, individual means carried on said main gimbal ring and said bank gimbal bail ring for applying precessing torques to the gyroscope about said lateral and fore and aft axes respectively, individual pendulum actuated means for controlling the respective torque applying means and responsive to deviations of said gyro unit about said normally horizontal axis and said lateral axis respectively, and means responsive to the resultant acceleration in a banked turn of said aircraft to cancel turn error resulting from centrifugal force acting on the control pendulum of the pendulum actuated means for controlling the precessing torque about said lateral axis.

2,528,488
PAD DISPENSER
Edward W. Barszcz, Mosinee, Wis.
Application June 20, 1947, Serial No. 755,878
2 Claims. (Cl. 312—51)

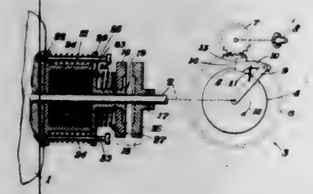


2. A dispenser for a stack of articles, comprising a hopper, said hopper having an open bottom, a closure for said open bottom, hinge means hingedly connecting said closure to said hopper for movement to and from open and closed positions, said closure including an inner surface, an inwardly-directed tongue fixed to said inner surface and adapted to at least partially pierce an adjacent article of said stack when said closure is in said closed position, said tongue being adapted to withdraw said adjacent article through said open bottom when said closure is moved to said open position, said hopper including an integral inwardly-directed flange partially closing said open bottom, and said flange comprising means for retaining the remainder of said stack therein when said closure is moved to said open position.

2,528,489
INDEXING MECHANISM
Casper S. Bednash, Jersey City, N. J., and Gordon S. Burroughs, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application April 4, 1946, Serial No. 659,560
8 Claims. (Cl. 192—149)

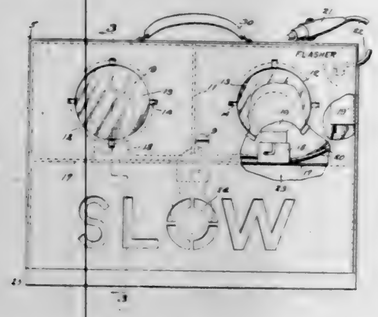
1. For use with a rotatable device which it is desired to stop in a given rotary position, a stopping system, comprising a shaft, power means for driving said shaft; means for stopping said shaft arranged to become effective upon the removal of power from said driving means including detent means and means for engaging said detent in a rotary sense opposite to the normal one for said shaft, said engaging means being arranged to be rotated by the shaft and said detent means being independently rotatable to selected rotary posi-

tions; means for braking the rotation of said shaft, and spring motor means arranged to be energized for reverse rotation of said shaft upon said braking means becoming effective, whereby a



given period after said braking means has become effective said spring motor means causes said shaft to reverse its rotation to effect a positive operation of said stopping means in a predetermined rotary position.

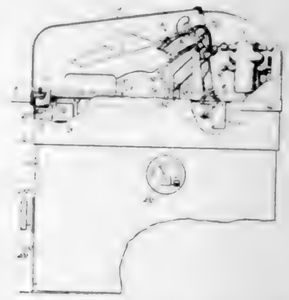
2,528,490
FLASHER TYPE ELECTRIC FLARE
Virgil S. Berry, Moss Point, Miss.
Application March 28, 1949, Serial No. 83,811
2 Claims. (Cl. 177—329)



1. A portable electric flare comprising a casing, lamp compartments within the casing, said lamp compartments having light openings, lamps supported between the light openings illuminating the light openings at opposite sides of the casing simultaneously, electric wires providing an electrical circuit between the lamps and a source of electricity supply, closures hingedly connected with the lower edge of the casing, said closures being movable downwardly away from the casing providing a support for the casing, and means for securing the closures in their casing supporting position.

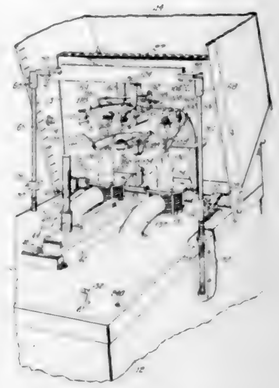
2,528,491
SHOEMAKING APPARATUS
Robert W. Bradley, Marblehead, and Richard C. Wildman, Manchester, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 24, 1947, Serial No. 793,720
25 Claims. (Cl. 12—1)

1. In a high-frequency heating apparatus for activating the toe box stiffener of a lasted shoe, electrode means for connection to a source of power to produce an electric field in the toe portion of a lasted shoe, said means comprising an electrode to extend around said toe portion substantially forward of the ends of the tip line,



and a cooperative upper electrode element to overlie the upper mid-portion of the tip of the shoe.

2,528,492
SHOEMAKING APPARATUS
Robert W. Bradley, Marblehead, and Carl Juhola, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 11, 1948, Serial No. 64,858
22 Claims. (Cl. 12—1)

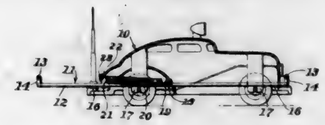


13. In apparatus of the class described, means for positioning the heel end of a lasted shoe in operative position relative to electrodes for activating a counter stiffener piece incorporated in such a shoe, comprising a shoe-supporting mechanism for supporting the shoe on a last in inverted position and in operative position laterally relative to said electrodes, said mechanism including spring means tending to maintain said shoe higher in position than that to be assumed when in operative position, a shielding cover mounted for movement into and out of shielding relation to the electrodes, and heightwise positioning means operable by movement of said cover into shielding relation to said electrodes for depressing the shoe into operative position heightwise relative to the electrodes.

2,528,493
INSECTICIDE COMPRISING ROTENONE AND (BUTYLCARBITYL) (6-PROPYL PIPERONYL) ETHER AS A SYNERGIST THEREFOR
Loyd W. Brannon, deceased, late of Norfolk, Va., by Leila Brannon, executrix, North Ingleside, Va.; dedicated to the free use of the People in the territory of the United States
No Drawing. Application June 8, 1948, Serial No. 34,846
1 Claim. (Cl. 167—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

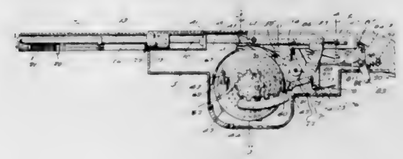
An insecticide comprising from 0.1 to 0.75 percent, by weight, of rotenone and (butylcarbityl)-(6-propyl piperonyl) ether as a synergist therefor.

2,528,494
MECHANICAL MOBILE TOY
James W. Brookshier, Decatur, Ill., assignor to Crown Cork Specialty Corporation, Decatur, Ill., a corporation of Illinois
Application September 13, 1949, Serial No. 115,473
6 Claims. (Cl. 46—206)



1. A mobile toy constructed for movement in a predetermined direction, said toy comprising a body, a frame supported on said body for sliding movement in said direction, said frame having a stop member on each end thereof to limit the sliding movement of the frame with respect to the body, said stop members cooperating with external portions of the said body, and resilient means connected to the frame and to the body in such a manner that one of said stop members is normally held in engagement with the body under the force of the said resilient means.

2,528,495
REPEATING AIR GUN
Eddie E. Carter, Rochester, N. Y.
Application February 8, 1946, Serial No. 646,368
4 Claims. (Cl. 124—15)



1. In a gun having a barrel provided with a bore through which one of a plurality of pellets may be projected at a time from a position in the rear of said bore, a plunger comprising a rod extending forwardly through the rear end of said bore, return-spring means normally retracting said plunger to a rearward starting position, said plunger rod having a pivoted trailing tongue, plunger actuating means for driving said plunger forwardly from its starting position against the resistance of said return-spring means so as to cause the forward end of said rod to move forwardly in said bore and project the pellet forwardly through said bore, said plunger actuating means comprising a rotary drum having a plurality of circumferentially spaced hammers on its periphery positioned in the path of the trailing end of said tongue, said drum normally occupying a position in which the one of said plurality of hammers which is adjacent to said tongue is disengaged from said tongue, drive-spring means associated with said drum for rotating said drum in firing direction from said position so as to cause said adjacent one of said hammers to strike the trailing end of said tongue and thereby drive said plunger forwardly, cocking means comprising means for rotating said drum in the opposite direction so as to tension said drive-spring means, spring pressed pawl means normally engaging peripheral portions on said drum to retain said drum in said normal position and prevent said drum from rotating in said firing direction after operation of said cocking means to tension said drive-spring means, and spring positioned trigger means operatively connected to said pawl means, said trigger means being arranged to be moved out of its normal position to retract said pawl means and thereby permit rotation of said drum in the firing direction for a distance between two adjacent hammers so as to fire one pellet through said bore and said trigger being arranged to be released to its normal position so as to reengage said pawl means with said drum and thereby preclude further rotation of said drum in the firing direction, said trigger means being adapted to be moved and retained out of its normal position and permit said drum to rotate in the firing direction so as to engage successive ones of said hammers with the trailing end of said tongue so as to produce burst-firing of a plurality of successive pellets through the barrel bore.

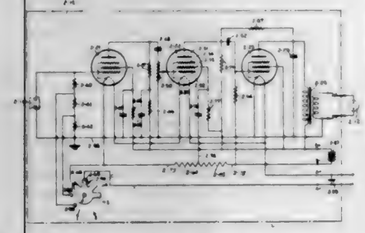
2,528,496
PHOTOSENSITIVE LEUCOCYANIDE COMPOSITION
Lyman Chalkley, Brick Township, Ocean County, N. J.
No Drawing. Application April 30, 1946, Serial No. 665,959
4 Claims. (Cl. 95—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Photosensitive material comprising a leucocyanide of a triarylmethane dye dissolved in at least one carboxylic acid which transmits radiation of wave length within the range of about 2100 angstrom units to about 3800 angstrom units, said leucocyanide when irradiated with ultra-violet light within said range and in the presence of said acid producing color which does not fade in the dark.

2,528,497
ALLOY STEEL
William Charles Clarke, Jr., Dundalk, Md., assignor to Armco Steel Corporation, a corporation of Ohio
No Drawing. Application October 23, 1946, Serial No. 705,245
5 Claims. (Cl. 75—125)

1. Austenitic chromium - nickel - phosphorous stainless steel of good hot-working properties and great strength and toughness at high temperatures containing 12% to 22% chromium, 10% to 21% nickel, 0.05% to 0.50% phosphorus, from 0.01% to 0.15% carbon, 0.10% to 2% manganese 2% to 4% molybdenum and 2% to 4% copper, from 0.15% to 0.75% titanium, 0.20% to 1.10% columbium, and the remainder substantially all iron.

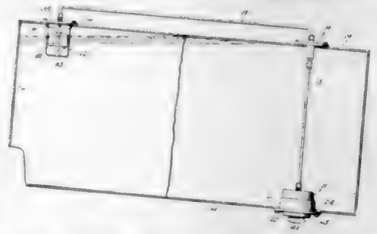
2,528,498
HEARING AID AMPLIFIER
Joseph W. Crownover, Hartsdale, and Harry A. Pearson, Mount Vernon, N. Y., assignors to the Sondtone Corporation, Elmsford, N. Y., a corporation of New York
Application October 10, 1947, Serial No. 779,084
16 Claims. (Cl. 179—171)



1. In an amplifier, of a device such as a hearing aid worn on the body of the user, having a plurality of amplification stages energized by miniature electric battery elements: a power amplifier stage including a power tube having an anode, a cathode and a control electrode on which amplified signal output is impressed; a gain amplifier stage immediately preceding said power stage and including an additional tube having an anode, a cathode, a control electrode, and a screen electrode between the control electrode and anode maintained at a positive potential relative to the cathode; energy supply connections including common positive circuit portions connecting a positive terminal of said battery to the anodes of said two tubes, and negative circuit portions connecting the negative terminal of said battery to the cathodes of said tubes for supplying space current to said tubes; one of said negative circuit portions connected between the cathode of the power tube and said negative terminal constituting a resistance circuit portion including resistance elements across which a bias voltage is developed by the space current of said power tube; a biasing connection from said resistance circuit portion to the control electrode of said power tube for impressing thereon a bias voltage developed across said resistance elements and rendering it negative relative to its cathode so as to operate said power tube at a desired control-electrode bias in the absence of any other bias source, and also feeding to the control electrode of said power tube a degenerative signal voltage; and a regenerative feedback connection from said resistance circuit portion to the screen electrode of the additional tube for impressing thereon a signal voltage which is substantially in phase with the signal voltage impressed on the control electrode of said additional tube and producing thereby a regenerative amplifying action opposing the effect of said degenerating signal voltage.

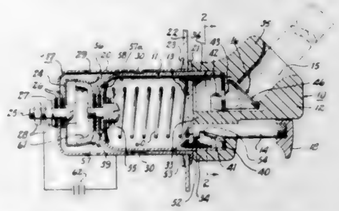
2,528,499
FUEL TANK
Robert H. Davies, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application April 6, 1945, Serial No. 586,872
4 Claims. (Cl. 137—68)

1. In a fuel tank, a casing attached to the bottom of the tank and having an inlet surrounded at its inner end by a valve seat, said casing having outlets leading to the tank, a valve in said casing for closing said inlet, a spring for moving the valve toward said seat, a float controlled pilot valve at the upper side of said tank, a tube connected to said casing above the valve and extending upwardly therefrom and connected at its upper end to said



pilot valve, means whereby fluid pressure on the inlet will close said valve when the pilot valve is closed, and means whereby the pressure of the fuel in said tube operates to aid in holding the valve firmly seated when in closed position and pressure in the inlet is relieved.

2,528,500
CIGARETTE LIGHTER
Lincoln K. Davis, Brockton, Mass.
Application January 20, 1948, Serial No. 3,191
6 Claims. (Cl. 219—32)



3. In an electric cigarette lighter for use on the dashboard of automobiles and the like, said dashboard having a socket, a lighter casing comprising a cylinder and a body secured to the outer end of the cylinder, said cylinder being adapted to be inserted within said socket with said body projecting from the socket, a piston in said cylinder, said piston having an eccentrically disposed piston rod at the side thereof below the axis of the cylinder, said body having a guide portion to slidably receive said piston rod, said body having an obliquely upwardly extending cigarette-receiving opening above said piston rod, an electric igniter element at the inner end of said opening, and means to move said rod to force air out through said igniter element and cigarette opening and to energize said igniter element.

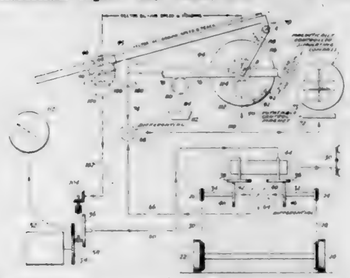
2,528,501
SHEATH FOR HUNTING KNIVES
Phillip W. Davis, Stockbridge, Mass.
Application March 12, 1948, Serial No. 14,518
3 Claims. (Cl. 224—2)

1. In a sheath for hunting knives having a pocket for the knife blade and a backing for the knife handle, handle securing means comprising a closed ring of flexible elastic material, and means secured to said backing for mounting said ring so that it lies normally in a vertical plane at right angles to the normal vertical plane of the sheath, said ring due to its flexibility and elasticity being stretchable to thread over the

free end of the handle when the blade is sheathed, and said means being operative to urge the ring to its normal vertical plane upon any twisting

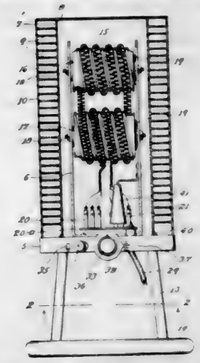
thereof consequent to its being threaded over the handle, whereby the ring exerts a frictional grip on said handle.

2,528,502
WIND DRIFT EQUIPMENT
Luis de Florez, Edwin K. Smith, and George W. Hoover, United States Navy
Application January 27, 1945, Serial No. 574,938
10 Claims. (Cl. 35—10.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



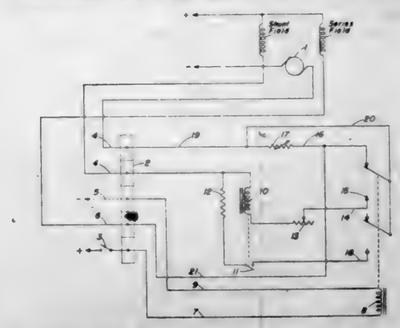
4. In air navigation training apparatus of the character disclosed, in combination, a movable car having a pair of separately rotatable drive wheels, said car being adapted to have a student navigator seated therein, said car having indicating instruments including an air speed indicator and a magnetically controlled simulating compass, said compass including a movable magnet for controlling the indication thereof, a variable speed driving motor, means connecting said motor to said air speed indicator, variable transmission means having a ratio varying member and driven from said motor, means including a drive shaft driven from said transmission means and a pair of additional variable ratio means connecting said transmission means and said pair of drive wheels, foot pedal means adapted to be operated by the student and operatively connected to said pair of additional variable ratio means for simultaneously varying the ratios thereof in opposite senses thereby to turn said car when the pedal means is operated, differential means operatively connected to said pair of additional variable ratio means, means forming a mechanical wind triangle having three movable arms of adjustable lengths, one of said arms being operatively connected to said differential means and having the position thereof controlled from said differential means, said differential means also controlling the position of said magnet, and means connected to said ratio varying member and to another of said arms and responsive to movement of said last named arm for varying the speed of said drive shaft.

2,528,503
ELECTRIC HEATER
Otto L. Dilworth, Hartford, Conn.
Application September 21, 1945, Serial No. 617,750
3 Claims. (Cl. 219—38)



1. For an electric heater of the character described, a heating element comprising an insulating support, and a resistance including a plurality of strands which are plaited together, formed into an elongated coil, and then said coil wound around said support, with adjacent turns of the coil spaced from each other, and connected in parallel within an electric circuit; whereby heating of said strands will cause radiation from each strand onto the others and increase the heating efficiency of the element.

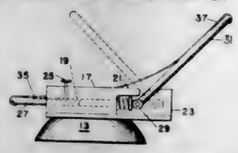
2,528,504
ACCELERATING AND BRAKING CONTROL SYSTEM
Donald E. Findley, Alfalfa County, Okla.
Application June 10, 1948, Serial No. 32,250
1 Claim. (Cl. 318—274)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A speed control system for an electric motor having an armature, said system comprising: a

resistive element; first relay means for connecting said element across said armature; a variable impedance; second relay means selectively energizable for simultaneously inserting said impedance in series with said armature and connecting said first relay means across said armature to thereby energize said first relay means, said first relay means being deactuated when the speed of said armature decreases to a predetermined value; and adjusting means connected to said first relay means to control the point of deactuation thereof.

2,528,505
RECLINING CHAIR
Arthur M. Fitzpatrick, Jr., Detroit, Mich.
Application May 26, 1947, Serial No. 750,614
5 Claims. (Cl. 155—116)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

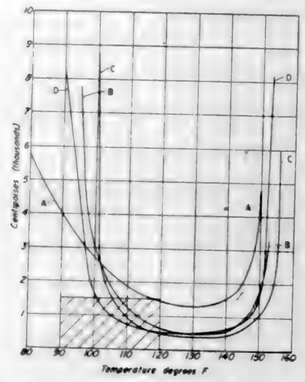


1. A seat comprising a plurality of bearings mounted on a pedestal and disposed in spaced and parallel relation, a first U-shaped tube slidably engaged in said bearings, a second U-shaped tube having its ends rotatably secured to the ends of said first U-shaped tube, a first plurality of lugs secured to said bearings and adapted to limit rotation of said second tube in one direction relative said first tube, a second plurality of lugs secured to said bearings and adapted to limit rotation of said second tube in the opposite direction, a pin retractibly extending into a selected bearing and adapted to engage a selected notch on said first tube and restrain said first tube against movement relative said bearings, a plurality of springs mounted on said first tube between said bearings and said second tube and adapted to effect travel of said first tube relative said bearings upon disengagement of said pin from said notch, and means to support an object between the transverse portions of said tubes.

2,528,506
CONTAINER SEALING COMPOSITIONS AND METHOD OF FORMING CONTAINER SEALS
Allen B. Foye, West Bridgewater, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application August 9, 1947, Serial No. 767,835
7 Claims. (Cl. 18—59)

7. A method of forming a solid, tough lining in a side seal type container closure which comprises the following steps: heating and thereby rendering flowable for application a congealed, paste-forming, resin-plasticizer mixture containing in uniform distribution discrete particles of the resin and discrete particles of a filler which imparts thixotropic properties to the mixture, applying the mixture while it is in flowable condition to the side wall of a rotating closure whose speed of rotation imparts to the mixture a force sufficient to deform the deposited mixture, cooling the composition until it is re-congealed, inverting the closure, transferring the lined closure to heating apparatus, heating the lined closure until the lining sags to form a bead adjacent the rim of said closure and until the components of the particles of resin dissolve in the plasticizer, and finally forming a permanent rubbery gel by cooling the mixture.

2,528,507
CONTAINER SEALING COMPOSITIONS
Allen B. Foye, West Bridgewater, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Original application August 9, 1947, Serial No. 767,835. Divided and this application May 11, 1949, Serial No. 92,720
4 Claims. (Cl. 260—28.5)

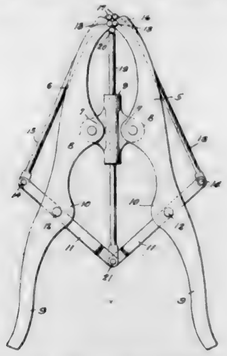


1. A container sealing composition comprising at room temperatures a congealed mass of plasticizer and a wax-like congelation agent selected from the class consisting of an amide wax, octadecenylamine and myristic acid, having uniformly distributed therein discrete particles of filler and discrete particles of a resin selected from the class consisting of polymers of vinyl chloride and copolymers of vinylidene chloride and acrylonitrile which is paste-forming with the plasticizer, the resin being substantially unsolvated and insoluble in the plasticizer at room temperature but soluble in the plasticizer at temperatures above 150° F., said congelation agent constituting from 2 to 25% by weight of the composition, said composition being a flowable colloidal liquid at temperatures between room temperature and 150° F. and being convertible into a permanent rubbery mass by heating to a temperature above 150° F. at which the resin solvates in the plasticizer and thereafter cooling the composition to room temperature.

2,528,508
RUBBER RING EXPANDING TOOL
Charles Gabel, Hawkeye, Iowa
Application May 3, 1949, Serial No. 91,095
5 Claims. (Cl. 128—303)

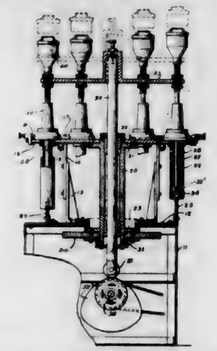
1. An instrument for applying elastic rings, comprising a pair of pivoted jaws, a tubular bearing disposed between the jaws at points intermediate the ends thereof, a pair of links pivotally connected with the jaws, a rod pivotally connected with the links and operating through the bearing, said rod terminating adjacent to the outer ends of the jaws, rods pivotally connected with the outer ends of the links and extending

through openings in the jaws terminating at points adjacent to the outer ends of the jaws, studs formed on the free ends of the rods, studs formed on the jaws, said studs extending in the



same direction and providing supports for a band, and handles formed on the jaws by means of whic' the rods are operated and the studs separated, stretching the band positioned on the studs.

2,528,509
MOLD CHARGING APPARATUS
Levi F. Goodrich, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application March 7, 1947, Serial No. 733,232
7 Claims. (Cl. 25—103)

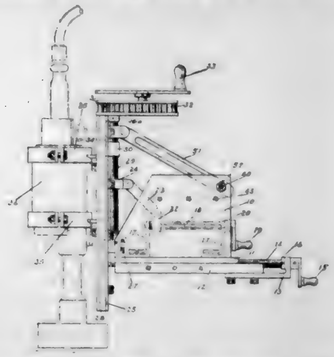


1. In combination a tubular mold, a rotatable turret supporting said mold with the axis of its bore vertical, a core projecting into the lower end of the bore of said mold, a sleeve projecting into the lower end of the mold bore surrounding the lower portion of said core, a support provided with a plurality of material containers arranged directly over the path of travel of said mold and each having a bottom tubulation with a valve in the bottom thereof normally maintaining the bore of the tubulation closed, means for rotating said turret in step-by-step fashion to successively index said mold into vertical register with each of said containers, means for elevating said core to a height within the mold determined by the desired volume of fill from the first of said containers brought in register therewith and for similarly elevating said core preceding the registration thereof with each of the remaining containers, and means for lowering said support while a container is in register with said mold and until its valve is opened by its engagement with said core and for thereafter returning said support to its initial position between indexing movements whereby the unoccupied portion of the mold cavity below the engaged portion of said core is temporarily accessible for the receipt of fluent material from the container at the time it is in register therewith.

2,528,510
COLOR TELEVISION
Peter C. Goldmark, New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application May 10, 1946, Serial No. 668,815
34 Claims. (Cl. 178—5.4)

1. In color television apparatus, the combination which comprises a scanning device, an optical system positioned and adapted to render an area in a plane of said scanning device conjugate to an area at another plane, a color control device positioned between said areas in the path of light rays through said optical system including a light valve and a plurality of filters of different fixed color associated with different portions of the light valve, said different portions of the light valve providing respective different light paths between said conjugate areas and means for selectively altering the light transmission through said different portions of the light valve.

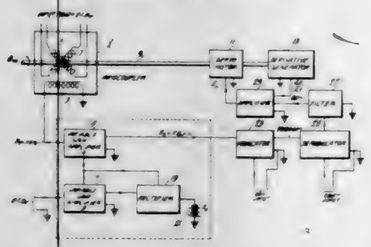
2,528,511
JIG
David L. Graham, Philadelphia, and Joseph Richards, Croydon, Pa.
Application February 4, 1946, Serial No. 645,421
1 Claim. (Cl. 51—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A tool-holding device comprising a platform, a housing slidably mounted on said platform, a first screw mounted for free rotation on said platform and threaded into said housing for sliding said housing, a plate rotatably mounted on said housing, a first bracket on said plate, a second screw mounted for free rotation on said housing, a traveler threaded on said screw for movement toward and away from said plate, a link connecting said traveler and bracket, a second bracket on said plate, an arm rotatably

mounted on said second bracket and extending into sliding engagement with said housing, and means on said housing for selectively locking said arm against sliding relative to said housing, a toolholder slidably mounted on said plate, and a third screw mounted for free rotation on said plate and threaded into said toolholder for sliding said toolholder.

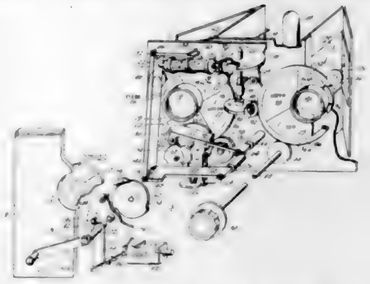
2,528,512
ENERGIZING CIRCUIT FOR SERVO SYSTEMS
Maurice Leighton Greenough, Groveland, Mass., assignor to Radio Corporation of America, a corporation of Delaware
Application September 29, 1945, Serial No. 619,398
13 Claims. (Cl. 318—28)



4. A constant loop gain servomotor system including an input signal source, a variocoupler having a pair of rotatable perpendicularly-disposed rotor windings energized from said input signal source and a stator winding, said stator winding providing a second source of signals of said first frequency having magnitudes proportional to the degree of rotational unbalance of said rotor and stator windings, a servomotor having a rotatable shaft, a pair of substantially identical variable gain amplifiers separately responsive to said input and said second signals, a source of reference potential, a rectifier responsive to amplified input signals derived from one of said amplifiers and said source of reference potential for deriving a control bias signal, means for applying said control bias signal to both of said amplifiers to control the gain thereof for deriving from the other of said amplifiers output signals having magnitudes proportional to the degree of variocoupler unbalance and substantially independent of the magnitude of said input signals, a source of energy of a second frequency for said servomotor, a modulator for mixing signals of said second frequency and said output signals, a demodulator for selecting the modulation component of said second frequency from said mixed signals, said selected component signal having magnitudes proportional to the degree of variocoupler unbalance and substantially independent of the magnitude of said input signals, means for energizing said servomotor by said selected component signals, and means mechanically coupling said servomotor shaft to said variocoupler rotor to balance said variocoupler coupling.

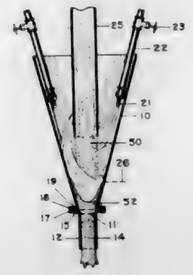
2,528,513
SELF-ADMINISTERING COLOR VISION TEST
Walter F. Grether, Dayton, Ohio
Application October 21, 1949, Serial No. 122,821
9 Claims. (Cl. 346—108)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Apparatus for testing color vision which comprises a closed cabinet, a vertical partition in said cabinet, a test stimulus window and a matching stimulus window in the front wall of said cabinet, a pair of spaced apart test lenses in said cabinet axially aligned with each other and with said test stimulus window, a like pair of spaced apart matching lenses in said cabinet axially aligned with each other and with said matching stimulus window, both said pairs of lenses being supported on said vertical partition, an incandescent light bulb medially placed in back of said partition, two opposite opal flashed glass windows alongside said light bulb in back of said vertical partition positioned to pass the light from said bulb laterally, two angle mirrors positioned to direct said light through said pairs of lenses, a circular test color filter made up of four sectors of neutral, yellow, green and red transparencies axially spaced between said test lenses and having its axis parallel to but offset from the axis of the test lenses, a circular matching color filter made up of three sectors of red, green, and blue transparencies axially spaced between said matching lenses and having its axis parallel to but offset from the axis of the matching lenses, means to support said test color filter for rotation about its axis, means to support said matching color filter for rotation about its axis, a test shaft for rotating said test color filter, a matching shaft for rotating said matching color filter, a three-notched detent cam and a three-toothed clockwise rotating ratchet on said test shaft, detent means



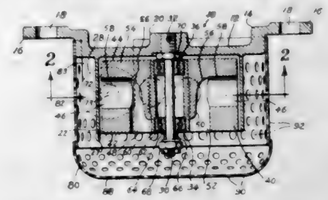
including a detent roller spring pressed into said notches, gear means drivably connecting said test shaft to said test filter, gear means drivably connecting said matching shaft to said matching filter, a rock shaft rockably supported in coaxial relation with said test shaft, a disc on said rock shaft, a pawl carried by said disc for engagement with said ratchet for rotating said test filter clockwise, a crank for rocking said rock shaft, a horizontally disposed recording cylinder rotatably supported on bearings carried on said vertical partition, gear means drivably connecting said recording cylinder to said test color filter, three radially extending recording pins carried by said cylinder axially spaced one near each end and the third midway between the two, and circumferentially spaced on thirds, a turntable rotatable on a vertical axis in bearings carried on said vertical partition, said turntable having a central pilot and a drive pin positioned radially outward therefrom, gear means drivably connecting said turntable to said matching color filter, a circular record card having a central opening for receiving said pilot and an eccentric opening for said drive pin, and having three concentric rings radially beyond said drive pin, the mean radii of the several said rings corresponding to the distance from said pilot to the several recording pins, a sponge rubber cover surrounding said cylinder and imbedding said recording pins, a horizontally disposed pressure bar hinged at one end and overlying said cylinder, a felt strip facing the underside of said pressure bar for receiving the points of the recording pins when the felt strip is pressed upon the sponge rubber cover by said pressure bar, a pressure bar operating roller eccentrically positioned on said rock shaft disc, and lever means actuated by said pressure bar operating roller upon anticlockwise rotation of said operating shaft to press said pressure bar and said rubber strip onto said sponge rubber cover and said recording pins.

2,528,514
METHOD FOR THE MANUFACTURE OF SUPERPHOSPHATE
Stewart A. Harvey, near Sheffield, Ala., and Grover L. Bridger, Ames, Iowa, assignors to Tennessee Valley Authority, a corporation of the United States
Application December 20, 1947, Serial No. 792,888
5 Claims. (Cl. 71—41)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



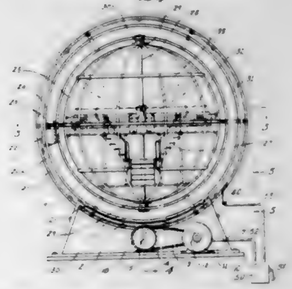
1. A process for intimately mixing finely divided phosphate rock with acid in the preparation of fertilizer which comprises continuously introducing a stream of finely divided phosphate rock at predetermined velocity into a mixing zone having the general shape of the frustum of a cone having its apex at the bottom; directing the stream of finely divided phosphate rock substantially vertically downward to a central location adjacent to the bottom of said zone; continuously introducing a plurality of streams of liquid acid into an upper part of said zone in a direction downward at an acute angle to the axis of said frustum and substantially tangential to the lateral boundaries of said zone; controlling the rate of flow and velocity of said streams of liquid acid to maintain a layer of rapidly moving liquid acid of substantial thickness upon the lateral boundaries of said zone, swirling and descending spirally along said boundaries of said zone at a controlled rate; controlling the rate of flow of said stream of phosphate rock in conjunction with the rate of descent of said liquid acid to maintain a swirling, turbulent pool of fluid acid-rock mixture in the lower part of said zone; dropping substantially all of said stream of finely divided phosphate rock directly into said swirling, turbulent pool of fluid without contact with acid higher in said mixing zone; and continuously withdrawing the resulting intimately mixed acid-rock fluid substantially vertically downward by gravity from the lower end of said zone.

2,528,515
SIREN
Henry Ernest Heigis, Nutley, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application January 4, 1946, Serial No. 639,097
5 Claims. (Cl. 116—147)



1. A siren comprising a stator having a cylindrical wall formed with a plurality of circumferentially spaced apertures in communication with the atmosphere, a rotor rotatably mounted in said stator having a substantially cylindrical body section formed with a plurality of circumferentially spaced substantially radially extending vane-like apertures disposed in the plane of said stator apertures and adapted to register therewith, and fluid pressure medium inlet means in said stator wall including a jet positioned in the plane of said stator and rotor apertures for directing the medium substantially tangentially between said stator and rotor and inwardly through said rotor apertures.

2,528,516
AMUSEMENT DEVICE
Charles Herrmann, Los Angeles, Calif., assignor, by mesne assignments, to Ben Charles Asher, Brooklyn, N. Y.
Application March 23, 1945, Serial No. 584,394
1 Claim. (Cl. 272—36)



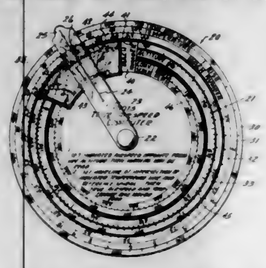
A passenger carrying amusement device comprising a foundation, a supporting framework, a source of rotary motion mounted on the said foundation and driving a pinion gear, a ring gear externally fixed to a ringlike structure and engaging the aforesaid pinion, the said ringlike structure resting on supporting rollers journalled in the said supporting frame, a second source of rotary motion carrying a pinion gear mounted internally in the said ringlike structure and engaging an external ring gear externally mounted equatorially on a spherical structure, the said spherical structure vertically journalled in the said ringlike structure, a diaphragmic structure horizontal within the said spherical structure, the said diaphragmic structure carrying passenger seating means and suitably pierced for stairs leading to the base of the spherical structure,

external controlling means for the said sources of rotary motion, slideable electrical conductor means all together coacting to provide a passenger carrying ride wherein the spherical member rotates about its vertical axis and the ringlike structure rotatable or oscillating about its vertical axis under the influence of its controlling means.

2,528,517
IMPREGNATED PROTECTIVE CHARCOAL AND ITS MANUFACTURE
Saul Hormats, Baltimore, Md.
No Drawing. Application June 26, 1942, Serial No. 448,701
5 Claims. (Cl. 252—431)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

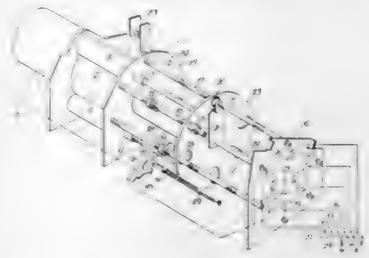
1. A process of treating activated charcoal to provide a material having increased capacity to remove poisonous contaminants from air and with a particularly high cyanogen chloride activity, which comprises the steps of, impregnating the activated charcoal with an aqueous solution of a soluble copper salt, draining away the excess of the solution, treating the wet charcoal with cold dilute caustic solution so as to convert the copper salt to at least one of the groups consisting of oxide and hydroxide, washing the charcoal with cold water to remove soluble salts, soaking the charcoal in a cold solution of a soluble thiocyanate and dilute caustic, draining the wet charcoal, and drying the charcoal.

2,528,518
TRUE AIR-SPEED COMPUTER
Franz J. Huber, Dayton, Ohio
Application November 29, 1949, Serial No. 129,993
5 Claims. (Cl. 235—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A true air-speed computing slide rule comprising; two relatively slidable members; a first logarithmic scale expressing the impact pressure in terms of indicated air speed on one of said members; a second logarithmic scale expressing the static pressure in terms of pressure altitude on the other of said members, said first and second logarithmic scales each having the pressure increasing in the same direction; a third logarithmic scale on one of said members expressing the ratio of said impact pressure to said static pressure in terms of Mach number, said Mach number being indicated by a pointer on the other of said members; a reference line on said member having said Mach number scale and fixed with respect to said last-mentioned scale; an indicated temperature index on said member other than the member having the reference line thereon, said indicated temperature index comprising curves of constant temperature and being in cooperative relation with said reference line to form a temperature scale along said reference line the graduation of which varies with Mach number changes taking into account the exact consideration of the compressibility of the air and the temperature rise at the thermometer in computing the true air speed; a fourth scale fixed on said member having said Mach number scale thereon expressing the true air speed as a function of the indicated air temperature for computed Mach numbers; and means for reading said true air speed scale for various indicated air speed, pressure altitude, and indicated temperature scale settings.

2,528,519
TUNING DEVICE
Wilbur C. Jackson, Oak Park, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application March 23, 1946, Serial No. 656,575
19 Claims. (Cl. 192—143)



1. In radio tuning apparatus having frequency changing means and control means for adjusting said frequency changing means to predetermined tuning positions, frame means having a longitudinal axis, a plurality of stops on said frame means concentrically arranged about said axis and adjustable axially thereof, an operating member for changing the positions of said frequency changing means, and means for moving said operating member into abutting relation with said stops including electrical means for moving said member longitudinally along said axis in one direction and mechanical means for rotating said member into alignment with one of said stops and for moving said member in the direction opposite to said one direction into abutting relation with said one stop.

2,528,520
SOLENOID OPERATED SWITCH
Wilbur C. Jackson, Oak Park, and Louis T. Clemens, Chicago, Ill., assignors to Motorola, Inc., a corporation of Illinois
Application May 17, 1947, Serial No. 748,730
5 Claims. (Cl. 200—87)

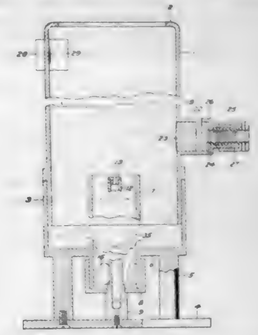
1. A solenoid operated switch comprising a tubular housing, a coil positioned within said housing at one end thereof, a movable plunger including a magnetic core adapted to be drawn into said coil, a contact member rotatably mounted on said plunger and having a plurality of radial projections thereon, said housing having an offset portion with an inwardly extending slanting edge adapted to engage said projections when said core is drawn into said coil to rotate said contact member, a spring tending to hold said plunger away from said coil, and a terminal support member at the end of said housing opposite to said coil and including a plurality of contacts and a plurality of teeth positioned to engage said projections to cause further rotation of said contact member when said plunger is moved away from said coil by said spring.

2,528,521
RADIOGRAPHIC UNIT
Herman F. Kaiser, Washington, D. C.
Application November 12, 1948, Serial No. 59,735
6 Claims. (Cl. 250—145)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A radiographic device for examining test objects comprising, a pair of support means having a common axis, a source of penetrating radiation disposed on the plane of said axis and in penetrating relation with a test object, a plurality of axially aligned beam-forming means in pivotal relation with the axis of said support means, means in motion-imparting relation with said beam forming means for imparting oscillatory pivoting motion to said beam-forming means, and detector means sensitive to emergent radiation from said test object.

2,528,522
METHOD OF PRODUCING AND RECOVERING FINE CARBON SMOKE PARTICLES AND APPARATUS THEREFOR
Sidney H. Katz, Edgewood Arsenal, Md.
Application October 23, 1934, Serial No. 749,565
2 Claims. (Cl. 23—209.8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method of obtaining finely divided carbon smoke particles for direct impregnation into a filter which comprises burning a combustible fluid with an incomplete supply of air in a chamber, continuously spraying a stream of water tangentially over the inner surface of the chamber such that all of the surface is flushed, and

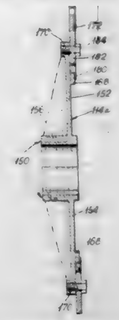


collecting the fine smoke particles emerging from the chamber.

2,528,523
PROCESS FOR EXTRUDING AND INSOLUBILIZING POLYMERS OF ETHYLENE
Robert Eugene Kent, Upper Montclair, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 12, 1948, Serial No. 32,739
9 Claims. (Cl. 18—47.5)

1. Process which comprises shaping at a temperature of 110° C.–180° C. a normally solid polymer of ethylene, said polymer being soluble in boiling trichloroethylene, containing 1%–10%, by weight thereof, of a tertiary peroxide of the formula R—O—O—R′ wherein R and R′ are saturated, non-aromatic hydrocarbon radicals, the carbon atom attached to each oxygen atom of the peroxide linkage is tertiary, and the sum of the carbon atoms in R and R′ is from eleven to sixteen, inclusive, and thereafter heating said shaped polymer at 180° C.–250° C. until at least 50% of said polymer is insoluble in boiling trichloroethylene.

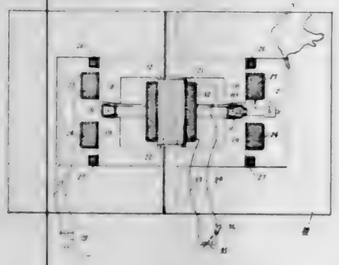
2,528,524
PATTERN MECHANISM OF KNITTING MACHINES
Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Inc., Weehawken, N. J.
Application August 18, 1947, Serial No. 769,093
2 Claims. (Cl. 66—84)



1. In a pattern mechanism of a knitting machine a cam comprising: a disc-like main body,

a series of abutting elements arranged along a circle at a side surface of said disc-like main body, and a series of cam bits, each of said cam bits having an abutting surface in engagement with such an abutting element, and each of said cam bits being detachably secured to said disc-like main body.

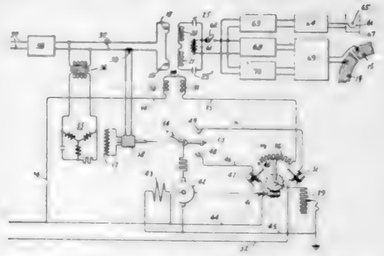
2,528,525
ELECTRON ACCELERATOR PROVIDED WITH STARTING AUXILIARY
Robert V. Langmuir, Herbert C. Pollock, and Willem F. Westendorp, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application May 22, 1947, Serial No. 749,852
6 Claims. (Cl. 250—27)



3. An electron accelerator comprising the combination of an annular evacuated container providing an orbit for the acceleration of electrons, means for introducing electrons into said orbit, a magnetic core having pole pieces respectively adjacent to and on opposite sides of said container and also having a magnetic member traversing the axis of said container, said axial member being magnetically saturated during normal operation of said accelerator, magnetizing primary windings on said pole pieces, secondary windings inductively related thereto, electric capacitors connected to said secondary windings to provide a circuit, inductance and capacity proportioned to be resonant at a predetermined frequency under operating conditions but being non-resonant under starting conditions, a magnetic winding on said axial member and a regulable inductance device connected to said winding and being located external to said accelerator whereby said circuit may be tuned to permit said accelerator to be started.

2,528,526
ELECTRON ACCELERATOR HAVING DIRECT CURRENT STARTING CIRCUIT
Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 22, 1947, Serial No. 749,853
5 Claims. (Cl. 250—27)

1. In an accelerator for charged particles comprising a chamber providing an acceleration path for such particles, a magnetic core, means including an oscillation circuit associated with said core for providing a time-varying magnetic acceleration field, and alternating current input means for supplying energy to said oscillation circuit the improvement which consists in the provision of variable unidirectional magnetizing means on said core and means sensitive to the angular relation of current and voltage in said input means for controlling said variable unidirectional magnetizing means to vary the magnetization for said core and thereby regulate

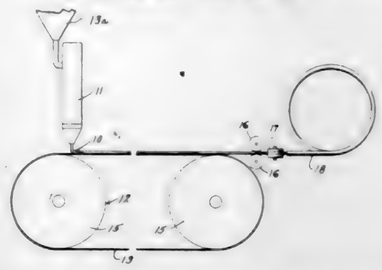


the resonance condition of said oscillation circuit.

2,528,527
TIE CLASP AND ARTICLE HOLDER
Michael Lavanish, Cleveland, Ohio
Application September 3, 1946, Serial No. 694,608
3 Claims. (Cl. 24—49)

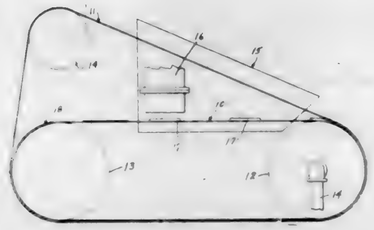
1. In a holder of the class described, a bar structure comprising a pair of elongated separable sections normally disposed in longitudinally-alined end-to-end relationship, one of said bar sections having the shank of a longitudinally projecting utility device rigidly secured to and extending from one of its ends, the other of said bar sections being of tubular formation and open at one end, whereby it may be slipped over the utility device to enclose the same with the open end portion of such bar section frictionally engaging the shank portion of said device and abutting the end of the first mentioned bar section; and a resilient clip member carried by said first mentioned bar section in substantially parallel spaced relation to the rear thereof, said clip member having an offset presser portion disposed adjacent to and adapted to exert pressure upon the portion of the said tubular bar section which is engaged with the utility device shank.

2,528,528
METHOD OF AND APPARATUS FOR FORMING PLASTIC
George Albert Lyon, Allenhurst, N. J.
Application June 15, 1945, Serial No. 599,532
11 Claims. (Cl. 18—4)



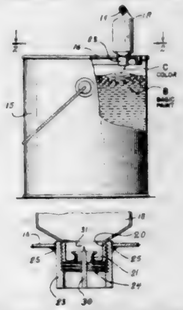
1. In an apparatus for forming plastic articles, means for forming hot plastic strip stock, traveling conveyor means for receiving and conveying said stock for a substantial distance while cooling to a consistency to be handled, and a helical-like tube having the entrance thereof spaced from said extruding means and into which said stock is conveyed from said traveling conveyor means while still warm to form the stock into substantially a helix.

2,528,529
METHOD OF AND APPARATUS FOR FORMING PLASTIC
George Albert Lyon, Allenhurst, N. J.
Application December 22, 1945, Serial No. 636,875
5 Claims. (Cl. 18—6)



4. In a machine for forming thermoplastic material on the order of cellulosic or vinyl resin material into thin sheet-like form, spaced cooling and heating drums, a polished endless belt trained over said drums, said drums being rotatably mounted and motivated to effect endless travel of said belt in one direction, the run of said belt which travels toward the heated drum from the cooling drum being disposed in an upwardly facing plane, a second polished surface endless belt substantially longer than the first belt being trained about said drums and engageable with said first belt throughout the major portion of the travel of said first belt about said drums and the run of the first belt traveling from the heated drum to the cooling drum, an idler roll rotatably offset from the cooling drum and having the second belt trained thereover and holding the second belt in spaced relation to the upwardly facing run of the first belt to converge with the first belt at the heating drum and to diverge from the first belt at the cooling drum, means between the converging portions of the first and second belts spaced rearwardly from the heating drum and forwardly from the cooling drum for depositing thermoplastic material on said upwardly facing run, whereby the material is carried by said upwardly facing run to the convergence of the belts at the heating drum to be pressed between the belts in travel about the heating drum and then carried between the substantially contiguous runs of the belts and about the cooling drum to the divergence of the belts whereafter to be exposed in flattened sheet condition for removal from the upwardly facing run of the first belt behind said plastic delivering means, and means defining a heating chamber encompassing the converging portions of the belts and said thermoplastic delivering means, whereby to preheat the converging portions of the belts and the thermoplastic heating means and maintain the deposited plastic in a heated plastic condition before pressing to sheet form between the belts.

2,528,530
PAINT CONTAINER MEANS AND MIXING PRESELECTED COLORED PAINTS
Irving Machleder, New York, N. Y., assignor of one-fourth to Paul Stiller, Mount Vernon, one-fourth to Bernard Altman, Larchmont, and one-fourth to James C. Ledbetter, New York, N. Y.
Application April 16, 1945, Serial No. 588,428
16 Claims. (Cl. 220—85)



1. A sealed paint container having a cover and being adapted to hold basic paint ready to be colored to suit without removing the cover from said container, an internally screw-threaded opening provided in the sealed paint container, and a blade in the opening adapted to rupture a sealed container of coloring matter when said latter container is mounted in the opening.

15. In a method of coloring paint to a preselected shade, the steps of sealing basic paint and sealing liquid or semi-liquid dispersible colors in separate containers, choosing one or more containers of sealed color, and then mixing said chosen sealed color or colors with the basic paint in the sealed container of the latter; the improvement in said method which consists of injecting said color in a stream from the chosen color container directly into the container of basic paint through a confined passageway connecting the two containers, thereby maintaining both the basic paint and the color closed against the access of atmosphere, when combining them, followed by agitating the combined mix for dispersing the color therethrough while still maintaining said combined mix closed against the access of atmosphere; thus mixing a paint of said preselected color, without creating paint mess, or causing waste, likewise without subjecting the paint to the atmosphere, and also inhibiting oxidation thereof.

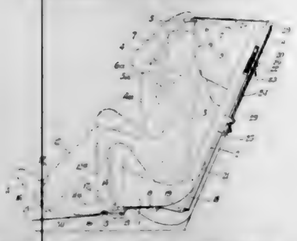
2,528,531
CONTINUOUS PROCESS FOR MAKING A COMPOSITE SOAP BAR
Donald E. Marshall, Summit, N. J., assignor to Micro Processing Equipment Inc., Des Plaines, Ill., a corporation of Illinois
Application July 27, 1948, Serial No. 40,838
11 Claims. (Cl. 18—59)

1. The process of producing a composite soap bar, which comprises, forming apertures in a soap lamination, forming inserts corresponding to said apertures and pressing said inserts into said apertures, stacking a plurality of soap laminations, at least a portion of which contain said inserts, at least one of the contacting surfaces between adjacent laminations being of moistened submicro-crystalline soap which is characterized by cold welding properties, and pressing said stacked laminations together to produce

a composite soap bar in which a plurality of soap laminations are adhered together by the cold

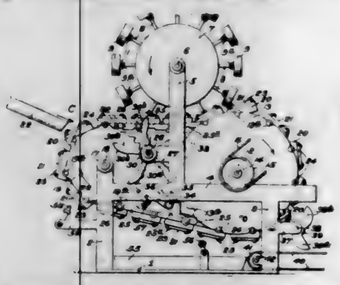
welding properties of said submicro-crystalline soap, whereby said laminations will remain joined together during storage and use.

2,528,532
BODY POSITIONING MEANS FOR AIRCRAFT EJECTION SEATS
James Martin, Higher Denham, near Uxbridge, England
Application May 27, 1947, Serial No. 750,856
In Great Britain June 7, 1946
7 Claims. (Cl. 244—122)



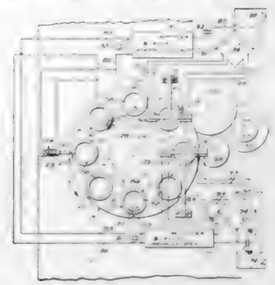
1. In an ejection seat for launching a person from an aircraft, the combination of, a seat having a head rest and a foot rest for each foot of the occupant, means having spaced grips for each of the hands normally positioned on said head rest, means arranged and positioned to allow said hand grips to be drawn downward from said head rest, stirrups for each of the feet of the occupant of said seat, and means actuated by the downward movement of said hand grips to draw said stirrups into positions over each of said foot rests.

2,528,533
JUICING MACHINE
Frederick L. McCulloch, Tampa, Fla.
Application December 22, 1948, Serial No. 66,769
14 Claims. (Cl. 100—35)



2. A machine for extracting juices from fruit or the like, comprising a base; spaced pairs of wheels journalled on said base having opposed spaced notches in their peripheries, one pair of wheels being driven; an endless series of cups having a substantially horizontal upper run running around said pairs of wheels, said cups having oppositely extending lugs adjacent their rear ends adapted to successively engage the successive notches of said wheels; pairs of chain links connecting adjacent pairs of lugs; a presser wheel journalled on the base above the upper run of said series; a radially disposed series of yieldably mounted pressers carried by said wheel and adapted to successively engage successive cups of the series as the upper run moves thereunder; said cups having slots in their bottoms; means for feeding fruit into the successive cups as they approach said upper run; means adapted to enter the slots in the successive cups to slit the fruit therein as the pressers engage the tops of the fruit; and means for collecting the juice which drops through the slots of the cups in the upper run.

2,528,534
APPARATUS FOR TESTING CENTRIFUGALLY ACTUATED ELEMENTS
Leo T. Meister, Bradley Beach, N. J.
Application March 9, 1945, Serial No. 581,817
10 Claims. (Cl. 73—167)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fuze testing apparatus for testing the functioning of magnetized arming elements of said fuze, movable to fuze arming position in response to a predetermined minimum speed of rotation of said fuze, comprising, a holder for containing a fuze, means for rotating said holder at said minimum speed, inductive coil means adjacent said holder and adapted to have a voltage induced therein by said elements when the latter are in fuze-arming position, electrically energized signal means, and a circuit connecting said coil means and said signal means, said circuit including an amplifier and normally balanced bridge, said bridge becoming unbalanced to energize said amplifier and pass current to signal means when voltage is induced in said inductive coil means.

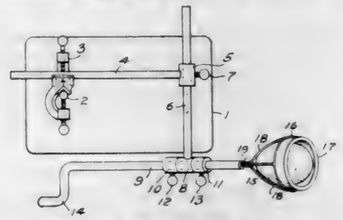
2,528,535
FLUID LUBRICATING COMPOSITION
Robert L. Merker, United States Navy
Application August 13, 1946, Serial No. 690,194
7 Claims. (Cl. 252—49.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A lubricating composition consisting essentially of a blend of an organo-siloxane having as its chain structure:

where n is a whole number greater than 1, and

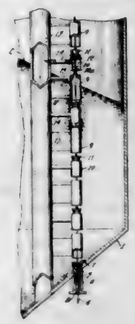
where R_1, R_2 and R_3 represent a combination of not more than two of the radicals selected from the group consisting of methyl, ethyl, phenyl and tolyl radicals, and a diester of a dicarboxylic acid, said acid being composed of carbon, oxygen and hydrogen and having from about 4 to about 10 carbon atoms in its molecular structure.

2,528,536
CRUCIBLE HOLDER
Robert Meyrowitz, Washington, D. C.
Application June 7, 1949, Serial No. 97,691
1 Claim. (Cl. 248—124)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



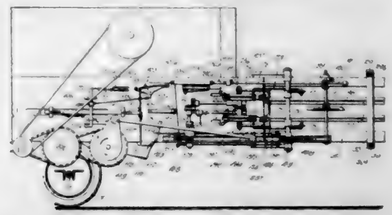
A support for a crucible adapted to rotate on a tilted axis which comprises a base stand having a horizontally disposed sleeve, a horizontal shaft mounted in said sleeve for rotary and axial movement therein, a set screw radially mounted in said sleeve for restraining said horizontal shaft in a predetermined position, a second sleeve mounted at one end of said horizontal shaft, the axis of said second sleeve being normal to the axis of said horizontal shaft, a rotary shaft journalled in said second sleeve, and a crucible-carrying basket axially mounted on the upper end of said second shaft.

2,528,537
SYSTEM ELECTRICALLY RESPONSIVE TO CHANGE IN LEVEL OF MATERIAL IN A RECEPTACLE
Harmon J. Monnik, Narberth, and Harold H. Eickhoff, Philadelphia, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 2, 1947, Serial No. 719,730
11 Claims. (Cl. 214—17)



1. Mechanism responsive to change in level of material disposed in a receptacle and having substantial resistance to the passage of electricity, said mechanism comprising an electrical conductor positioned vertically in said receptacle and having upper and lower portions disposed, respectively, above and below the aforesaid level, and means for passing a stream of gases into heat-transferring relation with respect to the upper conductor portion, said stream of gases having temperature differing substantially from that of said material.

2,528,538
TYING MECHANISM FOR AUTOMATIC BALERS
Edwin B. Nolt, Ephrata, Pa., assignor, by mesne assignments, to The Sperry Corporation, New York, N. Y., a corporation of Delaware
Application May 29, 1944, Serial No. 537,900
14 Claims. (Cl. 100—20)

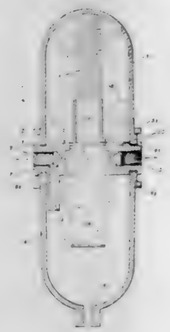


1. A bale tying mechanism comprising a pair of wire supply reels, an angular swingable yoke having wire holders disposed thereon at spaced intervals, wire twisting mechanism having a pair of twister members disposed at spaced intervals thereon, a set of wire guide means aligned with each of the wire twisters, said yoke being swingable in a forward direction for laying the free ends of the wires secure in the said wire holders carried thereby in each of the wire twisters, the said wire holders operating to release the free ends of the wires substantially at the end of the forward stroke thereof, needle mechanism for wrapping the wires around a bale and delivering loops thereon to a position adjacent said yoke substantially at the end of the forward stroke thereof for engagement by the wire holders carried by said yoke, said yoke being swingable in a return stroke for introducing the wires carried by the wire holders into said wire twisters in a direction opposite to the direction in which said free ends of the wires were introduced into the wire twisters, means for operating said wire twisters, means for severing the looped ends of the wires carried by said wire holders, means disposed between said wire twisters for simultaneously actuating said means for severing the looped ends of the wire carried by said wire holders, and coacting means for simultaneously ejecting the twisted wires from said wire twisters for encircling the formed bale.

2,528,539
AIR FILTER
Carl A. Norgren and Kenneth C. Mosier, Denver, Colo.; said Mosier assignor to said Norgren
Application October 22, 1945, Serial No. 623,656
4 Claims. (Cl. 183—34)

1. A filter for compressed air lines and the like of the type adapted to remove entrained solids and reduce the moisture content of compressed air comprising a body having an inlet and an outlet, upper and lower bowls secured to the faces of the body, the lower bowl having a smooth internal wall of circular cross section and the upper bowl being transparent, a tube extending downwardly near the inner wall of the

lower bowl and communicating with the inlet, the lower end of the tube being closed, said tube having an opening in its wall spaced downwardly from said body for directing the air in a circular path along the inner wall of the lower bowl whereby water is deposited from the air on to the wall of the bowl and dirt is entrapped by the



water, discharge means near the bottom of the lower bowl, a centrally disposed conduit in the body connecting the upper and lower bowls and extending into the former, said outlet communicating with the upper bowl, and a porous filter medium between the centrally disposed conduit and the outlet.

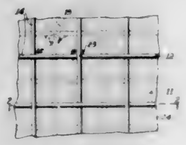
2,528,540

METHOD OF ORNAMENTING SHEET METAL

Edgar C. V. Oldofredi, New York, N. Y.

Application February 25, 1946, Serial No. 650,038

2 Claims. (Cl. 101—32)



1. In a method of ornamenting sheet metal to impart thereto a relievo and intaglio effect, imitative in appearance to that of hand wrought ornamentation, the steps comprising, inserting said sheet between two wire networks of substantially similar shape off-set against each other so that the intersections of one are opposite apertures of the other, and subjecting the whole to pressure sufficiently great to deform said sheet by pressing portions thereof into said apertures, whereby one side of said sheet will receive a relievo appearance and the other side an intaglio appearance.

2,528,541

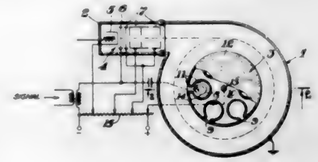
ELECTRON DISCHARGE DEVICE

Wolf S. Pajes, New York, N. Y., and Richard E. Downing, Cambridge, Mass., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application November 1, 1945, Serial No. 626,126

4 Claims. (Cl. 250—27.5)

1. A high frequency generator arrangement comprising a cylindrical anode, including a plurality of cavity resonators with openings facing to the curved outer surface of said anode, said openings being circumferentially spaced along said surface, an electron gun mounted in said device tangentially to a circular path substantially coaxial with said anode, first beam controlling means adjacent said gun for directing said



beam tangentially to said circular path, and second beam controlling means comprising a cylindrical metal envelope mounted about said anode and means connected to said anode and said envelope for applying a potential therebetween for deflecting said beam into said circular path.

2,528,542

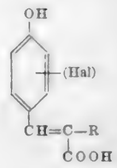
HALOGENHYDROXYARYLALIPHATIC ACIDS

Domenick Papa, Brooklyn, N. Y., and Erwin Schwenk, Montclair, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application May 28, 1948, Serial No. 29,928

14 Claims. (Cl. 260—521)

1. Compounds of the group consisting of acids of the general formula



wherein Hal represents a halogen atom of atomic number not less than 17 and not more than 53, n is an integer not less than 1 and not more than 2, and R is an alkyl radical containing from 1 to 8 carbon atoms, and the alkali and alkaline earth metal salts thereof.

2,528,543

RADIO BEACON SYSTEM

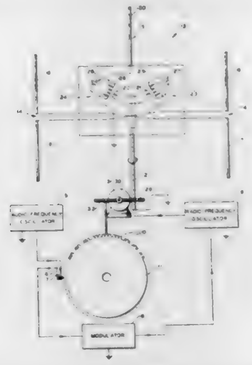
Glen Peterson and Michael Ercolino, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of War

Application September 6, 1944, Serial No. 552,862

4 Claims. (Cl. 343—106)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a radio beacon system: a radio-frequency generator; an audio-frequency generator; a normally open switch connected between said generators; a code wheel for intermittently closing said switch in such manner that the output of said radio-frequency generator becomes tone-modulated in accordance with a predetermined code the individual characters of which represent predetermined directions with respect to the beacon; an antenna system for directionally radiating the modulated output of said radio-frequency generator over a cardioid polar pattern; means for rotating said antenna system; and means for synchronizing the rotation of said antenna system with the operation of said code wheel whereby



each radiated character indicates the instantaneous direction of the null of said cardioid pattern.

2,528,544

INSECT REPELLENT PREPARATIONS

Michel Pijoan, Boulder, Colo.

No Drawing. Application December 5, 1946, Serial No. 714,229

4 Claims. (Cl. 167—42)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insect repellent composition comprising a mixture of 35 parts of 2 phenyl cyclohexanol and 15 parts of 2 cyclohexyl cyclohexanol emulsified in 50 parts of water containing an emulsifying agent.

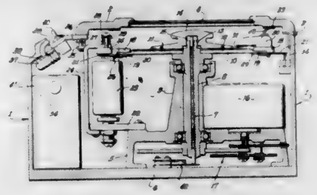
2,528,545

X-RAY RADIATION TIME RECORDER AND CONTROLLER

William B. Pond, Arcadia, Calif., assignor to Transresearch of California, Pasadena, Calif., a partnership

Application March 19, 1946, Serial No. 655,444

12 Claims. (Cl. 250—95)



1. A radiation time recording and control apparatus comprising: a normally rotatable annular member; recording stylus means mounted on said annular member; rotatable disc means adapted to carry a removable record-receiving medium for recording cooperation with said recording stylus means, a portion of said disc means being in spring-pressed, frictional, rotative driving engagement with said annular member; constant speed motor means for rotating said disc means and said annular member; locking means for locking said annular member against rotation during the period of radiation, thereby relatively to move said stylus and a record-receiving medium carried by said disc;

timing motor means; and cam means driven by said timing motor means adapted to shut off the source of radiation after a predetermined time interval.

2,528,546

DIRECTIONAL SOUND DETECTION SYSTEM

Richard H. Ranger, United States Army, Newark, N. J.

Application August 4, 1944, Serial No. 548,131

18 Claims. (Cl. 181—26)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

8. In a directional sound detection system, the combination of an oblong body of sound conducting material having the characteristic that the velocity of propagation of sound therein is greater than in air and having a side exposed and elastically displaceable responsively over a major part of its principal dimension by incident sound waves approaching in an ambient medium at a substantial angle to the major axis of the said body, means for indicating the angular position of said body, and a transducer operatively connected with a terminal part of said body constructed to transmit a resultant of sound propagated in said body, so that when said side is positioned at an incident angle to the source of sound critically related to the difference in the rates of propagation of sound in air and in said body, external sound waves moving in ambient air and impinging on the said side will generate waves in said body, and will move in phase with so generated waves in said body, progressively augmenting the latter waves for determination of the optimum of said resultant.

2,528,547

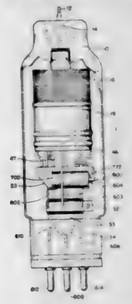
HYDROGEN THYRATRON

Gerard J. Reilly, Rumson, and Willis E. Harbaugh, Fair Haven, N. J.

Original application August 3, 1945, Serial No. 608,827. Divided and this application September 8, 1949, Serial No. 117,484

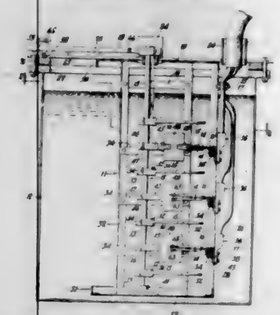
1 Claim. (Cl. 250—27.5)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



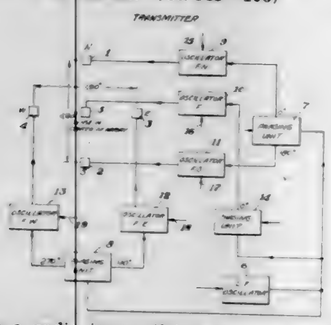
A hydrogen filled thermionic tube having a reservoir of tantalum hydride and means for heating said reservoir for maintaining hydrogen pressure within said tube.

2,528,548
POWER DISCONNECT SWITCH
Frank W. Reilly, Auburndale, Mass.
Application April 30, 1945, Serial No. 591,122
12 Claims. (Cl. 200—6)



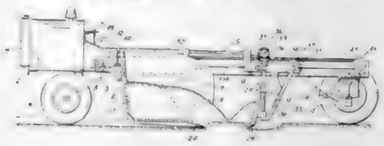
11. In a multi-phase, double throw, disconnect switch, a grounded frame having a relatively closed part and a relatively open part, a metal operating shaft journaled in said frame, radially projecting post type insulators substantially fixedly secured at their inner ends to said shaft and corresponding to the phases, sector jaws substantially fixedly secured at their midpoints to the outer ends of said insulators and arching over their respective insulators on either side, central and end stationary insulators attached to the relatively closed part of said frame and corresponding to the phases, stationary central and end contact tongues attached to said last-mentioned insulators, said shaft being rotatable to cause said sector jaws to bridge said central tongues selectively with the end tongues on either side of the central tongues, the arc spanned by the spacing of said stationary tongues being such as to leave a free arc longer than the arc of said sector jaws, whereby said shaft has an all free position wherein said sector jaws are free of all said stationary tongues and are accessible through the relatively open part of said frame.

2,528,549
DIRECTION FINDING SYSTEM
Avery Groat Richardson, Boonton, N. J., and Frank O. Chesus, Bayport, N. Y., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application December 1, 1947, Serial No. 789,060
13 Claims. (Cl. 343—106)



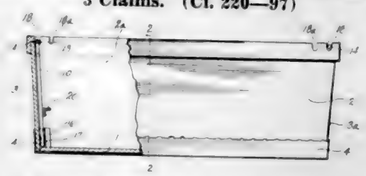
1. In a radio transmitting system, means for producing a rotating directional radiant energy field comprising means for producing a radiant energy field, said radiant energy field comprising component omnidirectional fields of different frequencies, means for varying the intensity of said component fields to effect said rotating directional field.

2,528,550
SELF-CONTAINED POWER SCRAPER
John F. Robb, Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis., a corporation
Application March 21, 1947, Serial No. 736,138
6 Claims. (Cl. 37—126)



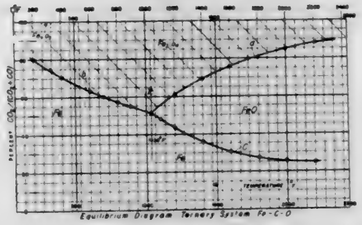
1. In a scraper machine, in combination, a supporting frame, wheels on which the frame is vertically adjustably mounted, a load receiving bowl mounted thereon, and open at its front end, a main scraper at the front bottom portion of the bowl, instrumentalities for lowering the bowl to the ground and relatively to the wheels to receive material dug and scraped by the main scraper during forward moving of the bowl and for raising the bowl when the material is to be carried off, a secondary scraper member on the frame in advance of the bowl and movable toward and from the same and movable vertically relative to the frame, drive mechanism to move the secondary scraper vertically relatively to the frame to cause it to penetrate undug earth, an engine on the frame, first driving connections between the engine and wheels of the frame and bowl to move them forwardly and second driving connections between the engine and secondary scraper to move the latter toward the bowl while penetrating the earth, the drive mechanism comprising vertical shafts drivingly connected to the secondary scraper.

2,528,551
SHIPPING BOX AND CRATE
Allen R. Ross, Renton, Wash.
Application October 30, 1944, Serial No. 560,944
3 Claims. (Cl. 220—97)



1. A crate of rectangular form, having inwardly inclined side and end walls and a bottom wall less in width and length than the open top, flat transverse stacking frames located within the crate and disposed flatly against the respective end walls thereof and engaged at their lower ends against the bottom wall and movable at their upper ends toward each other to a spacing less than the spacing between them at their lower ends, said side walls having recesses therein extending away from the end walls and said frames having projecting portions contained in said recesses and adapted to engage with the ends thereof to limit the extent of swinging movement of said frames.

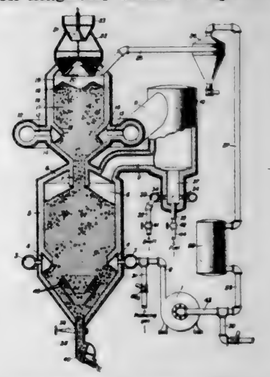
2,528,552
PROCESS FOR MAGNETICALLY ROASTING HEMATITIC ORE AND ORE MATERIALS
Percy H. Royster, Chevy Chase, Md., assignor to Pickands Mather & Co., Cleveland, Ohio, a copartnership
Application September 10, 1946, Serial No. 695,914
4 Claims. (Cl. 75—1)



1. Process of magnetically roasting a ferruginous ore material whose iron content occurs mostly in the ferric state whereby to convert at least the major portion of the ferric oxide content thereof to magnetite, which comprises repeatedly circulating a stream of mixed non-oxidizing gas through a reentrant circuit containing a mass of the ore material at an elevated temperature between 500° F. and the liquidus point of the ore material, the mixed gas consisting essentially of nitrogen, CO_2, H_2O and CO, the ratio of CO_2 to the sum of the CO_2 and CO in said mixed gas being maintained at a value above the line "*b a*" in the equilibrium diagram for the ternary system Fe—C—O represented in Fig. 1 of the accompanying drawing; after each passage through said mass of ore material reconstituting the original composition and volume of the mixed gas by discarding a minor fraction of the mixed gas and adding to the residue a like amount of a gas containing nitrogen and CO_2 and being rich in CO, the amount of CO so added being from about 0.6 to a little in excess of 1.12 cu. ft. of CO per each 1 pound of Fe content in the ore material treated; heating the mixed gas, prior to each passage thereof through said mass of ore material to a temperature between 500° F. and the liquidus point of the ore material; and maintaining the mass of ore material at a temperature between 500° F. and the liquidus point of the ore material by heat transferred thereto from said heated mixed gas, the volume of the mixed gas being adjusted, between 5 and 30 cu. ft. per each 1 pound of the ore material treated, to have a heat capacity sufficient to insure that the mass of ore material is heated to such elevated temperature.

2,528,553
PROCESS OF MAGNETIC ROASTING
Percy H. Royster, Chevy Chase, Md., assignor to Pickands Mather & Co., Cleveland, Ohio, a copartnership
Application November 19, 1946, Serial No. 710,747
3 Claims. (Cl. 75—1)

1. In the magnetic roasting of ferruginous ore material whose iron content consists mostly of one or more relatively non-magnetic oxidic compounds of iron, to convert the major portion of the iron content thereof to magnetite by treating a mass of the ore material with a reactive gas, the improvements which consist in establishing and maintaining a gravitationally descending column of particles of the ore material in initially substantially unheated state; passing upwardly through an upper part of said column a current of a reactive gas initially containing CO_2 and a gaseous reducing agent of the group consisting of CO and H_2 but no free oxygen, said reactive gas being initially at an elevated temperature below the liquidus temperature of the non-magnetic oxidic compound of iron, the volume of said reactive gas, about 10 cubic feet per each 1 pound of the ore material treated, being such that the heat capacity of said reactive gas is equivalent to the heat capacity of said ore material, the gaseous reducing agent component of the reactive gas being present in an amount of from about 1.0 to about 1.37 cubic feet per each 1 pound of iron contained in the ore material, and the CO_2 and gaseous reducing agent being present in such relative proportions that the gas at the temperature of operation is reducing with respect to Fe_2O_3, is oxidizing with respect to FeO and Fe and is in thermodynamic equilibrium with Fe_3O_4, during which countercurrent treatment the ore material is dehydrated and heated to reactive temperature and thereupon its content of non-magnetic oxidic compound of iron



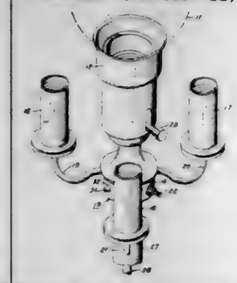
largely is converted to magnetite; wasting to atmosphere a fractional portion of the gas after it has passed through the upper part of said column, and cooling the residual gas; re-establishing the initial ratio of CO_2 to gaseous reducing agent and the initial volume of the reactive gas by adding to the residual gas a reducing gas relatively rich in said gaseous reducing agent; introducing the resulting re-constituted reactive gas, in initially substantially unheated state, into said column at a level adjacent the bottom of the latter and passing the gas upwardly through the lower part of said column whereby to abstract heat from the particles constituting the latter; withdrawing the gas from the column at a level intermediate the top and the bottom of the latter and below the level of introduction of heated reactive gas into said column; thermally enriching the gas while maintaining its chemical composition substantially unchanged; and using the thermally enriched reactive gas in a repetition of the defined gas cycle.

2,528,554
WATER-REPELLENT TEXTILES AND PROCESS OF MAKING SAME
John B. Rust, West Orange, N. J., assignor, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application November 3, 1943, Serial No. 509,015
10 Claims. (Cl. 117—135.5)

1. Water-repellent textile comprising a textile carrying a silicon derivative selected from the

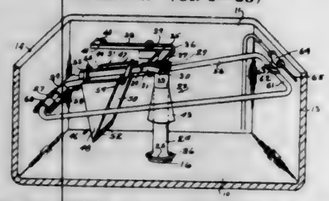
group consisting of an alkyl alkoxy silicon and an alkyl silicyl ester fixed thereon by heating at a temperature of 120 to 180° C. in an amount from 1 to 10% to give a light, water-repellent coating without interfering with the breathing property of the textile.

2,528,555
FLOOR LAMP GUIDE LIGHT
Joseph Samson, San Francisco, Calif., assignor to himself and Harvey Masonek, San Francisco, Calif., jointly
Application August 9, 1948, Serial No. 43,332
2 Claims. (Cl. 240—81)



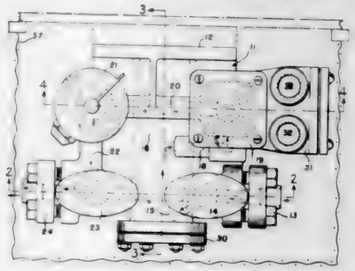
1. A floor lamp guide light comprising, in combination, a floor lamp structure including a vertically disposed tubing having an inlet, an outlet and an opening through the wall thereof, a vertically disposed standard housed within said tubing and spaced from the wall thereof, electrical conductors housed in said tubing and leading from the inlet through the outlet thereof for conducting electrical energy to the globes of the floor lamp, a neon bulb connected across said conductors for constant energization independently of the energization of the lamp globes, and means including at least one clip partially encircling said standard for removably mounting said bulb on said tubing with a portion of the bulb extending externally of the tubing through said opening.

2,528,556
OVERFLOW PIPE AND VALVE FOR FLUSH TANKS
Edward Schulz, Aurora, Ind.
Application May 20, 1946, Serial No. 670,912
2 Claims. (Cl. 4—58)



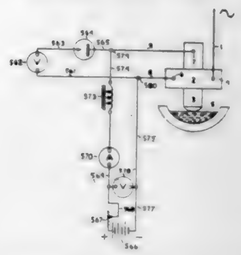
1. As an article of manufacture a combined overflow pipe and flush valve comprising a tube having an outwardly projecting flange at the valve end of the tube, a replaceable valve member on said tube flange in the form of a compressible disc underlying said flange and having a central aperture aligned with the opening in the tube and said disc having portions thereof beyond the flange drawn over the flange to retain the disc in position, means carried by the tube intermediate its ends to cause a floating of the tube, and means at the other end of the tube, whereby, it may be connected to valve unseating means.

2,528,557
REFRIGERANT CONTROL MANIFOLD
Samuel A. Shapiro, Bronx, N. Y.
Application October 27, 1944, Serial No. 560,592
11 Claims. (Cl. 62—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



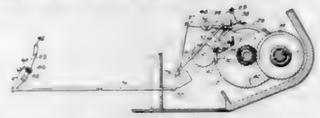
1. In a refrigerant control device for unit service installation as a part of a refrigerant system the combination of refrigerant flow control elements comprising a cutout valve, a strainer, a solenoid valve, a thermal expansion valve and a second cutout valve, the said control elements all mounted in a single bodily replaceable manifold provided with internal refrigerant conducting passages in series relationships along which the said control elements are positioned, with a by-pass valve and other internal refrigerant conducting passages located in said manifold in substantially parallel relationship to the first series of passages.

2,528,558
MAINTENANCE OF CONDUCTIVITY IN ELECTRICAL SYSTEMS
Ralph Sherman, Warren, Ohio
Application December 31, 1946, Serial No. 719,368
8 Claims. (Cl. 171—97)



8. In combination with an auxiliary circuit having leads adapted to be connected to points in an electrical system under load for response to electrical conditions at such points, such leads and connections including contacts subject to formation of layers of low conductivity and being incapable of being broken down by voltages less than a predetermined value safely withstood by such auxiliary circuit, a source of restoration current having a voltage exceeding such predetermined break down value and conductors connecting said current source with said leads, said source of restoration current having only such contacts as are included within the circuit of said conductors, whereby the reliability and continuity of the restoration current source itself is assured by the operation thereof.

2,528,559
BRAKE CONTROLLED DIFFERENTIAL FOR SKID STEERING OF VEHICLES
Raymond I. Strickland, Greenbelt, Md., and Harry A. Knox, Washington, D. C.
Application August 26, 1947, Serial No. 770,700
4 Claims. (Cl. 74—710.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

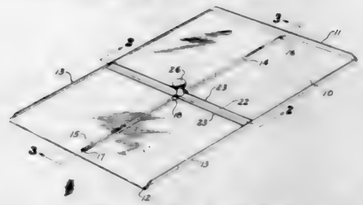


1. In a track-laying vehicle, a differential, twin output gearing drives from respective sides of said differential, lugs on corresponding elements of each of said drives between said differential and the final drive to the tracks of said vehicle, a pair of sleeves fixed on the vehicle, there being a helical groove in each sleeve, a bolt rotatably and slidably mounted in each sleeve, a pin secured in each bolt and projecting therefrom into the radial slot in its corresponding sleeve, a toothed sector on each bolt, a pair of gear sectors pivoted on said vehicle, each sector having teeth for engagement with the toothed sector of a respective bolt, and manually operable means to selectively pivot either of said gear sectors to thereby rotate and axially translate the corresponding bolt into the path of the lugs of a respective element to thereby positively stop rotation of said element.

2,528,560
BOWLING PIN ELEVATING AND RESETTING MECHANISM
Earl G. Strong, Milan, Ohio
Application February 9, 1949, Serial No. 75,432
4 Claims. (Cl. 273—44)

1. In combination with a bowling alley, a supporting frame mounted above the pin bed of the alley, said frame including spaced upper and lower transverse bars, a bowling pin rod composed of an upper rod section, a socket secured on the lower end of said upper rod section and having a rear depending lip, and a lower rod section having its upper end pivoted in said socket to freely swing forwardly and rearwardly from and to said lip, a bowling pin secured on the lower portion of said lower rod section, a ring member pivoted on the lower bar to tilt about a horizontal axis transverse to the alley, the upper portion of the lower rod section extending through said ring member and mounted in the latter for lateral swinging and forward and rearward sliding movements, a collar pivoted on the upper bar to tilt about a horizontal axis transverse to the alley, a plunger including a stem slidable through said collar and a forked head on the lower end of said stem having the upper end of the upper rod section pivoted therein upon a transverse axis, a helical compression spring disposed on the stem between the collar and the plunger head and acting to force the plunger downwardly and swing the upper rod section to raise the bowling pin to an inoperative position when the pivotal connection between the upper rod section and the plunger head is moved forwardly past dead center and to retain the rod and pin in a vertical lowered position when said pivotal connection is moved rearwardly past dead center, and a slotted guide and stop bracket carried by the lower bar and having the upper rod section passing therethrough below the ring member, the lower end wall of the slot of said bracket acting as a fulcrum about which the upper rod section rocks to slide the upper end of the same rearwardly relative to the ring member as said pivotal connection moves rearwardly past dead center.

2,528,561
BAKING PAN WITH SEPARATOR BLADE THEREFOR
Dorothy M. Swarthout, Kewaskum, Wis.
Application July 27, 1949, Serial No. 107,119
3 Claims. (Cl. 99—422)



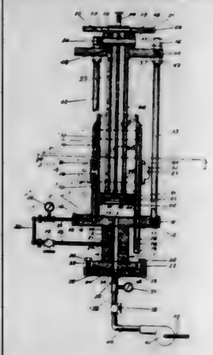
1. In a baking pan with separator blade, the combination of a rectangular metal sheet with stiffening flanges on all sides of the sheet having a longitudinal slot formed therein with depressed flanges along each side of the slot, a shoe within said slot having two parallel grooves adapted to fit the depressed flanges of the slot, a separator blade, having a thin edge on at least one side of the blade, mounted on the shoe flush with the cooking surface of the pan and extending crosswise of the width of the sheet and a handle fastened to said blade and shoe to move the separator blade across the surface of the sheet to remove the baked goods therefrom.

2,528,562
SACK OPENING DEVICE
Elmer C. Swanson, Larchwood, Iowa
Application January 14, 1946, Serial No. 641,084
1 Claim. (Cl. 150—1)

A sack opening device comprising a pair of stitching cords stitched along the normally open end of a sack, one of said cords passing through the sack plies and including integral loops, the other of said cords including loops within said

integral loops, a normally stretchable resilient member attached at the end of said stitching and resiliently retaining the stitching thus formed, said resilient member including openings tightly and resiliently receiving the loop portions of one of said cords to tightly retain said cord therein until forcibly removed therefrom by pulling on said cord, said resilient member being folded exteriorly about one closed edge of the sack.

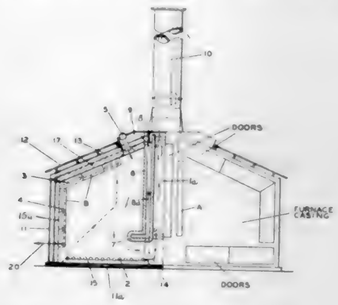
2,528,563
FIXTURE FOR TESTING CYLINDERS
Charles L. Testut and Angelo Zanetti, New York, N. Y.
Application May 29, 1945, Serial No. 596,582
4 Claims. (Cl. 73—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fixture adapted for testing for leaks in a cylinder liner and jacket of a Diesel engine, said fixture comprising a sealing member adapted for sealing one end of the liner, a head member spaced from said sealing member and adapted to be spaced from the open end of the liner, a piston rod mounted for reciprocation relative to said head member, a piston on said rod adjacent said sealing member and adapted to be disposed in a plurality of predetermined positions within the liner in sealing engagement with the inner wall of the liner, locking means for securing said piston against movement in said predetermined positions comprising a sliding pin supported in said head member and adapted to be removably engaged in a corresponding plurality of transverse slots in said piston rod, means for introducing liquid under pressure into the space defined by the sealing member, piston and liner, a pressure gauge to indicate leakage from said space, a bleeding valve providing an outlet for gas trapped in said space, means for introducing liquid under pressure into the jacket, and a pressure gauge for indicating leakage from said jacket, the space defined by said piston, wall of the liner and open end of the liner being open for inspection during test.

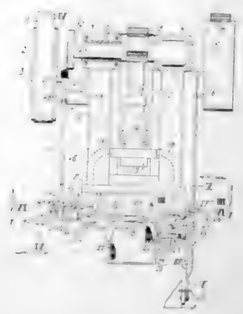
2,528,564
FURNACE
Louis J. Weber, Borger, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 29, 1943, Serial No. 512,284
4 Claims. (Cl. 122—356)

1. A tube heater comprising a floor, a central framework, a surrounding outer wall framework, inclined roof beams extending from the outer framework to the central framework and supported thereon at their respective ends, refractory linings mounted on the outer framework and the roof beams forming a furnace space, a pair of hollow refractory bridge walls terminating above said floor, said bridge walls extending entirely across the furnace space, and being open to the exterior of said furnace space and open at



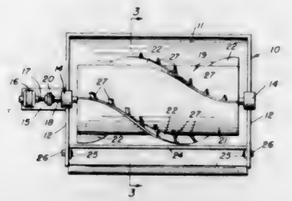
their upper edges to provide for free circulation of air therethrough, a stack supported on said main beams in alignment with the flue formed by said bridgewalls, burners positioned to impinge their flames upon said bridgewalls, a convection tube bank in the passage between said bridgewalls, and radiant tube banks supported on said floor and opposite the refractory linings for the roof and outer side walls.

2,528,565
SAFEGUARDING DEVICE FOR MACHINE TOOLS
Raphael A. Weber, Toledo, Ohio
Application June 26, 1944, Serial No. 542,153
6 Claims. (Cl. 192—133)



1. The combination with a machine tool having relatively movable opposing parts to approach and recede in a cycle at an entrance region, a shaft for operating the machine tool, a drive for the shaft, a cut-in control for connecting the drive to operate the shaft for a cycle, and a frame in which the parts are mounted; of a fending device mounted on the frame and laterally spaced from the entrance region and having an out-of-use position therefor clear of the entrance region, fending device actuation means extending from the device to the drive operated shaft independent of the control and coacting to provide positive positioning of the device at in-use position during shaft rotation, and a manually operable disconnecting means for the actuating means to the device, said disconnecting means having fixed therewith a holding means precluding drive connection effecting operation of the cut-in control.

2,528,566
PRESSURE SPRAY AND WASHING DEVICE
David S. Whisenhunt, Florence, S. C.
Application June 13, 1947, Serial No. 754,384
1 Claim. (Cl. 299—63)



A pressure spray washing device comprising a substantially semi-cylindrical trough, semi-circular end walls closing the ends of said trough to form a semi-circular container for washing liquid, a bearing mounted on the upper edge of each end wall midway between opposite ends thereof, a shaft mounted in the bearings to rotate about a horizontal axis which extends longitudinally of the container, an elongated circular cylindrical rotor mounted on said shaft to rotate therewith between opposite end walls of the container, a group of peripherally spaced spiral paddles extending radially from said rotor, longitudinally spaced spray deflectors extending angularly from the leading side of each paddle to form in conjunction therewith and with the rotor a group of liquid receiving pockets, means to rotate the rotor at a substantially constant speed, a curved shield in the container extending between opposite end walls, said shield lying concentric with the rotor and means carried by the end walls and coupled to the shield adjustably to hold said shield radially spaced from the rotor whereby the pressure of the spray created by rotation of the rotor may be varied.

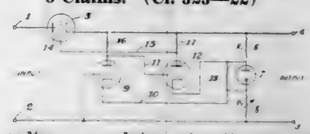
2,528,567
BASKET WEAVE CHAIN
Leon A. Williams, Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York
Application January 31, 1947, Serial No. 725,565
16 Claims. (Cl. 59—80)

1. A basket weave chain made up of male and female links connected in alternation, each male link being a folded sheet metal blank having only one cross-bar with arms projecting transversely therefrom, each female link being a folded sheet metal blank having collateral center and edge bars with transverse arms connecting said bars, said blanks being folded or bent to form interlocked tubular-like links extending transversely of the chain, the aforesaid arms of the blanks forming rows of sub-links extending longitudinally of the chain in basket weave formation.

2,528,568
EXPANSIBLE BASKET-WEAVE CHAIN
Leon A. Williams, Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York
Application August 18, 1947, Serial No. 769,289
14 Claims. (Cl. 59—79)

1. An expansible basket-weave chain made up of links connected in alternation, said links each being a folded sheet metal blank having a cross-bar with arms and guides projecting in substantially parallel relation from each edge of the cross-bar, said blanks being folded to form tubular-like links extending transversely of the chain, the arms of alternate links being staggered relative to the arms of the intermediate links with the arms of one link bent around the cross-bar of the adjacent link, said arms forming rows of sub-links which extend longitudinally of the chain in basket-weave formation, and said guides being shorter than said arms and extending longitudinally of the chain near both the top and bottom of the folded link, said guides being slidably received within the arms of an adjacent link and functioning to prevent the chain from being bent too sharply at a single point between two links, and springs inserted between the cross-bar of each link and the ends of the arms of the next link bent around said cross-bar, said springs serving normally to cause the links to have a closed-up or solid mesh appearance, but affording expansion of the chain when placed under tension.

2,528,569
VOLTAGE REGULATOR CIRCUIT
Norman H. Young, Jr., Jackson Heights, Martin Silver, Bronx, and Hayward A. French, Brooklyn, N. Y., assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware
Application June 22, 1946, Serial No. 678,546
5 Claims. (Cl. 323—22)

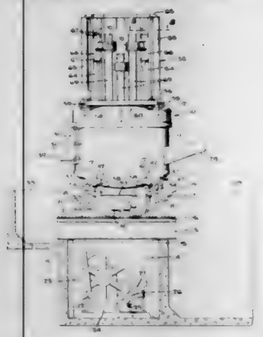


1. A voltage regulator circuit comprising a rheostat tube having a cathode and a plate in the circuit to be regulated and having a control grid, a constant voltage dropping device connected through a resistance on each side of the said device across the output of the said circuit, a first and second electronic tube, each tube having a cathode, a plate, and at least one control grid, the cathodes of the first and second tubes having connections to the negative and positive sides respectively of the constant voltage dropping device to maintain a constant potential difference between the two cathodes, means to bias the said first tube across one of said resistances between the constant voltage dropping device and the circuit to be regulated, the said second tube having its grid connected to plate of said first tube and having its plate connected to the control grid of the said rheostat tube and connected through a bias resistance to the cathode of the rheostat tube whereby any fluctuation in the voltage across the output of the said circuit is counteracted by a corresponding change in the resistance of the said rheostat tube.

2,528,570
SIZING COMPOSITION FOR YARNS
Chester Carl Abramson, Frostburg, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 20, 1946, Serial No. 685,240
2 Claims. (Cl. 104—142)

1. An aqueous composition for use in sizing yarns or regenerated cellulose prepared by the saponification of stretched yarns having a basis of an organic ester of cellulose, said composition consisting of casein, triethanolamine and oleic acid, the triethanolamine being 15 to 20% on the weight of the casein and the amount of oleic acid being 25 to 50% by weight of the triethanolamine.

2,528,571
ELECTRIC TILTING FURNACE
Lloyd L. Babcock, Compton, and John D. Spalding, Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 22, 1948, Serial No. 28,556
7 Claims. (Cl. 13—10)



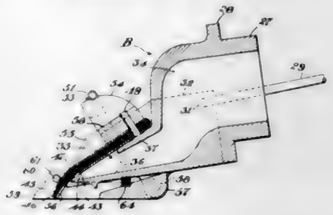
3. In an electric melting furnace, the combination of: a tiltable support base; parallel rails on said support base positioned at right angles to the direction of tilting movement of the support base; a furnace shell having supporting wheels thereon resting on said rails, said shell being provided with a pouring spout and a slag-off opening at diametrically opposite locations on opposite sides of said parallel rails; a furnace roof positioned above the shell and cooperating therewith to define a furnace enclosure; means for supporting the roof independently of the shell including upright support structure fixed on said base at one end of the rails and located adjacent the periphery of the shell intermediate the positions of the pouring spout and slag-off opening; and means for rolling the shell along the rails laterally out from under the furnace roof in a direction away from the roof support structure.

2,528,572
AWNING WINDOW OPERATING DEVICE
Joseph C. Bancroft, Jamestown, N. Y.
Application June 17, 1948, Serial No. 33,581
2 Claims. (Cl. 268—106)

1. A sash-operating device for awning type windows comprising, a window frame, a sash pivoted in said frame on a horizontally disposed pivot located adjacent the top of the sash, the free lower edge of the sash being provided with a channel, an operating device including a housing attached to the inside of the frame, a rotative disk in said housing and mounted for rotative projection out of the housing, crank-operated gear means for rotating the disk, a link having one end pivotally attached by a horizontally

disposed pivot to the disk, said link extending tangentially from the disk, the second end being secured by a ball-and-socket connection to a slide mounted for sliding movement in the channel on the lower edge of the sash.

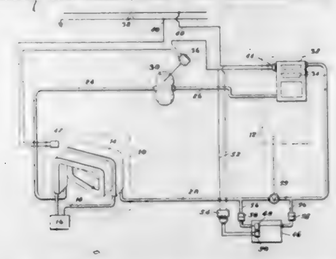
2,528,573
NOZZLE FOR STRIPING MACHINE
Samuel B. Beugler, Los Angeles, Calif.
Application February 1, 1949, Serial No. 73,981
2 Claims. (Cl. 91—30)



1. In a striping machine, a nozzle having an elongated discharge outlet, a wall forming the margin of the under side of said outlet having a straight forward edge, a wall spaced from said first named wall having a forward margin off-set rearwardly from the margin of the first named wall, a flexible metallic plate seated on said last named wall projecting beyond the forward margin of the latter and having an edge spaced inwardly from the margin of the first named wall and defining with said margin the nozzle discharge outlet, a flexible applicator sheet overlying said plate having a marginal portion protruding beyond the margin of said first named wall, a flexible metallic plate overlying said sheet and means for detachably clamping the assembly of the metallic plate and the flexible sheet on said nozzle.

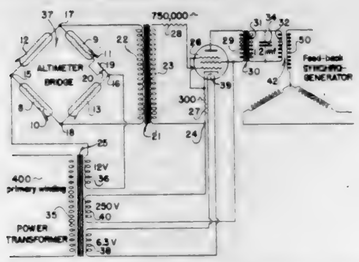
2,528,574
MULTIPLE TEMPERATURE REFRIGERATION
Morris F. Booth, Alden, Mich.
Application June 10, 1946, Serial No. 675,601
9 Claims. (Cl. 62—116)

1. In a two-temperature refrigeration system the combination of a low temperature evaporator in heat exchange relation to a compartment to be cooled, means forming a path for a heat exchange liquid through said evaporator but isolated from the refrigerant therein, a heat exchanger in thermal relation to a second compartment to be cooled to a higher temperature, a secondary fluid circuit comprising the heat exchanger, said means, and connecting conduits, electrically operated means for controlling flow in the secondary circuit, electric means operatively associated with said electrically operated means to govern the same, and two thermostats in se-



ries with each other and with said electric means one responsive to evaporator temperature and the other responsive to heat exchanger temperature for governing said electric means to prevent fluid flow in the secondary circuit except when the evaporator is below a predetermined temperature and the heat exchanger is above a higher predetermined temperature.

2,528,575
ALTITUDE RESPONSIVE CONTROL DEVICE
John H. Broadbent, Baltimore, Md., assignor to United States of America as represented by the Secretary of the Navy
Application January 23, 1948, Serial No. 3,845
2 Claims. (Cl. 323—75)



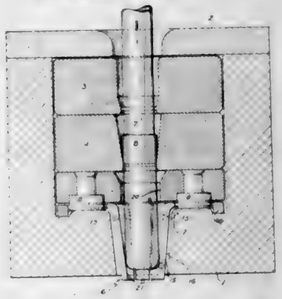
1. Altitude-responsive control means comprising a bridge circuit having a pressure-responsive tube in each arm thereof, each tube comprising a resistance element having a high temperature coefficient to permit pressure changes to cause said resistance to vary, and a source of alternating power in one diagonal of the bridge, the tubes in alternate arms being sealed whereby the resistance thereof is constant, the tubes in the remaining arms being open to the atmosphere whereby the resistance thereof varies with pressure and the terminals of the other diagonal providing an output which varies in accordance with the atmospheric pressure.

2,528,576
ROTARY CULTIVATOR
Harrison Brown, Fargo, N. Dak.
Application July 22, 1946, Serial No. 685,303
1 Claim. (Cl. 97—60)

A disc cultivator, said cultivator comprising spaced rigid supporting arms, bearing sleeves adjacent said arms, said bearing sleeves inclining downwardly and outwardly at an acute angle to the spaced supporting arms, an ear on each bearing sleeve disposed in a vertical plane, means pivotally connecting each ear to an associated supporting arm to provide for angular adjust-

ment of the bearing sleeve to incline rearwardly, rotatable shafts rotatable in said sleeves and diverging downwardly and outwardly, the lower ends of said shafts being provided with cultivating discs in a plane at a right angle to the axis of the shafts.

2,528,577
METAL DRAWING STRIPPER
Robert T. Catlin, Stratford, and George R. Eckstein, Milford, Conn., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application May 5, 1949, Serial No. 91,432
9 Claims. (Cl. 205—4)



1. In drawing apparatus including a reciprocating punch, stripper means for removing a drawn component from said punch comprising a spring collet supported in axial alignment with said punch and having a normal inside diameter not greater than the diameter of said punch, said spring collet comprising a plurality of separate substantially rigid fingers, and a spring and supporting flange surrounding said fingers and including radially extending portions, each formed integrally with and extending radially outward from each of said fingers.

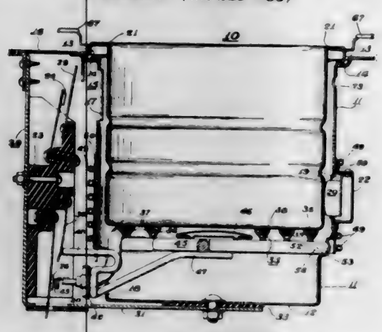
2,528,578
UMBRELLA
Clyde E. Clapper, Kansas City, Mo.
Application May 1, 1947, Serial No. 745,137
2 Claims. (Cl. 135—46)

1. An umbrella comprising a primary upright post, a secondary post, upper and lower arms

having one end hinged to said secondary post at longitudinally spaced points and having the opposite end hinged to the upper portion of the primary post at longitudinally spaced points, whereby said secondary post is free to swing up and down in an arc about the upper end of said primary post while being maintained substantially parallel thereto, a sleeve normally encircling the lower one of said arms, said sleeve being slidable along said one arm and onto said secondary post when said one arm and secondary

post are in substantial alignment, said sleeve resting on said one arm when said arm is in angular relationship to said secondary post to prevent retrograde movement of said sleeve, and said upper arm forming a stop to limit upward movement of the sleeve along said secondary post, fabric supporting ribs hingedly connected to said secondary post, and stays connecting the ribs to said sleeve whereby the ribs are raised to stretch the fabric taut when said sleeve encircles said secondary post.

2,528,579
HEATING APPARATUS
Earl K. Clark, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 11, 1947, Serial No. 753,896
5 Claims. (Cl. 219—35)



1. In an electric range comprising a platform having an opening therein, the combination of a cooking well comprising a casing disposed beneath said opening, an electrical side heater element disposed about the periphery of said casing, a movable horizontal heater adjustable to an upper operating position adjacent the top of said casing and a lower operating position within said casing, a common control switch for said heaters, said control switch having a pair of mating contacts adapted to intermittently engage each other and means for varying the period of engagement of said contacts to vary the wattage delivered to the heaters, and switch means operable by said horizontal heater upon movement thereof to its lower position to connect said side heater, said horizontal heater unit and said control switch in series with each other and operable to connect said horizontal heater alone in series with said control switch when the horizontal heater is moved away from said lower position.

2,528,580
REEL DRIVING SYSTEM
Roy H. Colomy, Springdale, and Charles J. Boenisch, Norwalk, Conn., assignors to Pratt & Gray Company, Inc., a corporation of Connecticut
Application May 15, 1945, Serial No. 593,888
7 Claims. (Cl. 242—70)

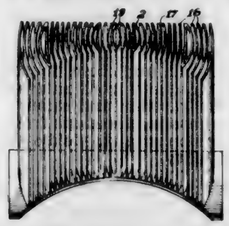
1. In a reel driving system, a shaft, a member secured to said shaft and having a radial slot therein, a double-toothed pawl movably mounted in said slot, said teeth being adapted to alternately extend outwardly from said member as said pawl is moved whereby one of said teeth may be extended to engage and transmit driving motion to a reel, and a reel on said shaft, said reel having an opening therein radially spaced from the axis thereof and adapted to be entered by said extended tooth of said pawl so that said reel may be driven thereby, said reel having a surface adapted to abut the other of said teeth to move said pawl and to hold said extended tooth thereof in reel-engaging position.

2,528,581
CONTROL UNIT FOR MOTORS WITH BELT DRIVES
Paul F. Craton, Long Beach, Calif.
Application December 2, 1948, Serial No. 63,033
2 Claims. (Cl. 200—52)

1. A control unit for motors with belt drives comprising a housing, means mounting said housing adjacent the belt, a motor control switch mounted in said housing, a bar mounted on the housing above said switch and engageable therewith to actuate the switch, said bar being adapted to be struck by any protuberance on the belt, and a spring finger mounted at one end on the housing and at the other end on said bar.

2,528,582
LENS FOR FOCUSING RADIO WAVES
Henry B. De Vore, Belle Mead, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1947, Serial No. 783,126
4 Claims. (Cl. 250—33.63)

1. A lens for focusing radio waves for scanning antenna systems, including a plurality of wave conduits in side by side relationship, one end of each of said conduits being positioned with respect to the corresponding ends of the others of said conduits so as to define a flat surface, the other ends of said conduits being positioned with respect to each other so as to define



a substantially uniformly curved surface of radius R, the distance Y_1 of each of said first mentioned ends from the principal axis of the lens being related to the distance Y_2 of the corresponding other end from said axis substantially as follows:

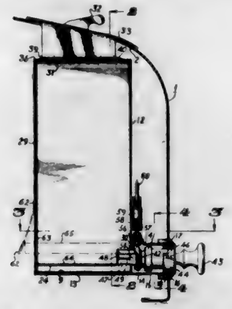
$$Y_2 = Y_1\sqrt{1-\frac{Y_1}{2R}}$$

and the phase length S_1 of each of said conduits being related to the phase length S_0 of the axial conduit substantially as follows:

$$S_1 - S_0 = 2R\left(1-\frac{Y_2}{Y_1}\right)$$

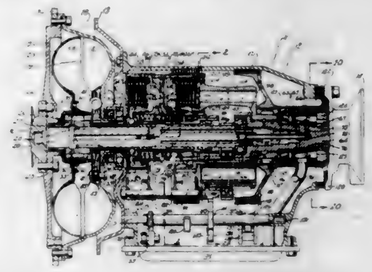
the phase length of a wave conduit being the product of free space wavelength, operating frequency, and wave transit time through the conduit whereby the locus of points of best focus for radiation incident upon said flat surface is a curve of radius 2R centered at the intersection of said axis with said curved surface.

2,528,583
CIGARETTE LIGHTER
Elra Ellis, Kosciusko, Miss.
Application December 15, 1947, Serial No. 791,873
2 Claims. (Cl. 312—86)



1. A device of the character as disclosed including a magazine for containing cigarettes, an igniter slidably mounted in axial alignment with the lowermost cigarette in said magazine at one end of said cigarette, a tubular gripping member on the inner end of said igniter, a spring engaging said igniter for normally holding said igniter in its outermost position with its gripping member at the adjacent end of said lowermost cigarette in said magazine, an electric lighting circuit including an igniter coil in said gripping member of sad igniter, and a switch actuated by said igniter to be closed upon pressing said igniter inwardly against the tension of said spring until said tubular gripping member is passed over the adjacent end of said lowermost cigarette and grips said cigarette over said end, with said end adjacent said igniter coil, for igniting said end of said cigarette, and said igniter upon being released being moved outwardly by said spring for withdrawing said cigarette from said magazine with the gripped end of said cigarette lighter by said igniter coil.

2,528,584
AUTOMATIC TRANSMISSION
Eugene J. Farkas, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application August 22, 1945, Serial No. 611,975
20 Claims. (Cl. 74—732)

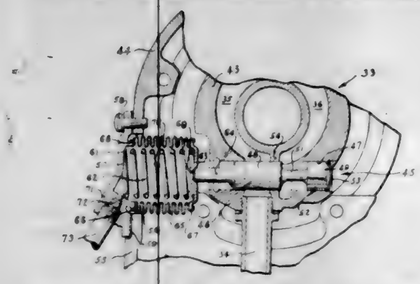


1. In a variable speed power transmission, in combination, a power shaft and a load shaft and a main shaft axially arranged, a fluid coupling comprising a power receiving element fixed for rotation with said power shaft and a power delivery element having a one-way driving connection with said main shaft, a planetary gearing system including planet pinion gears mounted on a planet carrier rotatably supported about the axis of said shafts and respectively meshing sun gears, selectively operable torque reaction means associated with said planet carrier for obstructing rotational movement of said planet carrier in one direction, an intermediate rotatable power transmitting member including one of said sun gears, a second sun gear on said main shaft, a third sun gear on said load shaft, manually operable means to secure said power transmitting member against rotation, first clutch means to fix said power transmitting member for rotation with said power shaft, a second clutch, means connecting said second clutch to said power transmitting member, means also connecting said second clutch to said planet carrier, and means for operating said second clutch means only concurrently with said first clutch means.

2,528,585
OIL PRESSURE CONTROL FOR AUTOMATIC TRANSMISSIONS
Eugene J. Farkas and Joseph W. Rackle, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application November 3, 1945, Serial No. 626,562
15 Claims. (Cl. 74—752)

1. In a variable speed power transmission, in combination, a housing, a power shaft, a load shaft, gearing interposed between said power

shaft and said load shaft and arranged for selective operation to transmit torque from said power shaft to said load shaft at a plurality of different speed ratios, fluid pressure means arranged to effect said selective operation, a pump supplying



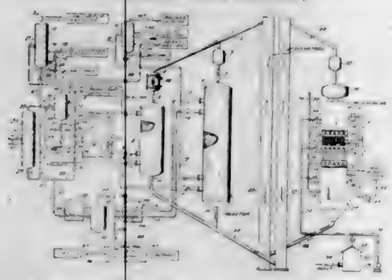
activating fluid under pressure to said means, a pressure relief valve controlling the fluid pressure in said pump, and vacuum controlled means arranged to decrease the pressure at which said relief valve operates as the vacuum increases.

2,528,586

CATALYTIC DESULFURIZATION AND CRACKING OF SULFUR-CONTAINING PETROLEUM

John E. Ford, Jr., Garden City, N. Y., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application June 3, 1947, Serial No. 752,211
7 Claims. (Cl. 196—50)



1. The process of refining a crude petroleum oil having a sulfur content of 1 per cent by weight or greater in the 400° to 1000° F. fraction which comprises fractionating said crude into a light distillate consisting of motor gasoline and diesel fuel and a heavy residual fraction, removing the asphaltic portion from said heavy fraction, passing said light distillate through a first conversion zone, introducing freshly regenerated fluent active cracking catalyst to said first conversion zone, maintaining mild conversion conditions in said first conversion zone such that the coke produced from said light distillate is in the range of 0.5 to 2.0 per cent by weight and the amount of gas lighter than butanes produced from said light distillate is in the range of 0.8 to 3.5 per cent by weight, passing the deasphaltized heavy fraction through a second conversion zone, introducing freshly regenerated fluent active cracking catalyst to said second conversion zone in an amount substantially greater than the amount introduced to said first conversion zone, maintaining cracking conditions in said second conversion zone so as to effect cracking of said heavy fraction to at least 35 per cent of motor gasoline based on the amount of fresh feed to said zone; removing coked catalyst from said first and second conversion zones, regenerating a mixture of coked catalyst from the first and second conversion zones in a regeneration zone adapted to remove excess heat by indirect heat transfer, removing freshly regenerated catalyst from said regeneration zone, returning freshly regenerated catalyst to said first and second conversion zones, separating the products from said first conversion zone into gasoline and diesel fuel fractions, separating the products from said second conversion zone into gasoline and other fractions, and blending the gasoline fractions from the first and second conversion zones to yield a gasoline of high lead susceptibility.

2,528,587

ART OF DESULFURIZING DIESEL FUEL AND SIMILAR HYDROCARBON FRACTIONS

John E. Ford, Jr., Garden City, N. Y., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 20, 1947, Serial No. 769,766
5 Claims. (Cl. 196—52)

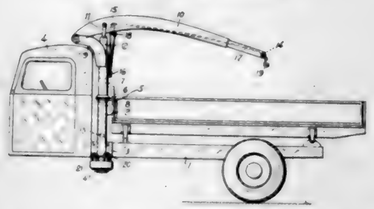
1. In the production of high octane gasoline and diesel fuel from a straight run fraction of a petroleum crude oil, said fraction comprising a straight run diesel fuel fraction boiling in the range of 400 to 750° F. and having a sulfur content of at least 0.5 weigh percent: the process which comprises introducing said straight run fraction to a catalytic conversion zone wherein substantially all hydrocarbon material charged thereto boils below the end boiling point of said diesel fuel fraction; contacting said straight run fraction in said conversion zone with an active cracking catalyst at mild conversion conditions of temperature, pressure, and contact time selected to effect conversion of said diesel fuel fraction to between about 10 and 30 volume percent of butane-free gasoline, an amount of dry gas lighter than butane of between about 0.8 to 3.5 weight percent, and an amount of coke between about 0.5 and 2.0 weight percent; removing hydrocarbon conversion products from said zone; and separating from said conversion products a gasoline fraction and a diesel fuel fraction, which diesel fuel fraction has a sulfur content substantially lower and a cetane number substantially as high as the untreated straight run diesel fuel fraction.

2,528,588

HYDRAULIC CRANE FOR MOTOR VEHICLES

Johan Elis Forslund, Skelleftea, Sweden, assignor to Fabriks A. B. Forslund & Co., Skelleftea, Sweden, a corporation of Sweden

Application June 1, 1949, Serial No. 96,498,
In Sweden June 18, 1948
2 Claims. (Cl. 212—35)



1. A hydraulic crane for motor vehicles, comprising a tubular pedestal, a hydraulic cylinder

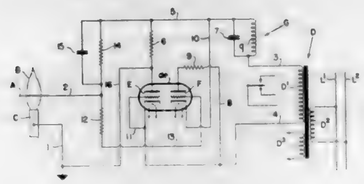
supported by said pedestal to turn about its axis, an extension of said cylinder extending through said pedestal, means connected with the end of said extension below said pedestal for turning said extension and, thus, said cylinder, a bracket firmly secured to said cylinder, a cantilever arm for carrying a load hinged to said bracket for up and down movement in a vertical plane, a piston in said cylinder, and a link pivotally connected with said piston and extending upwardly from said cylinder, the upper end of said link being pivotally connected to said cantilever arm.

2,528,589

CONTROL APPARATUS

George P. Frick, Wayne, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 13, 1946, Serial No. 709,669
8 Claims. (Cl. 175—320)



1. Control apparatus, comprising in combination, an electronic half-wave rectifying valve and an electronic amplifying valve, each having an anode and a cathode and an output circuit including said anode and cathode and comprising a portion common to the output circuit of the other, an energizing circuit having two terminals and adapted, when connected to a source of alternating current, to cause an alternating voltage to exist between said terminals, a relay winding and a by-pass condenser connected in said common output circuit portion with said winding and said condenser in parallel with one another and each in series between said terminals, one of said terminals being connected to the anode of one of said valves and the other of said terminals being connected to the anode of the other of said valves, and means responsive to a variable controlling condition for making said amplifying valve conductive or non-conductive on a predetermined change in said condition, whereby with said rectifying valve in continuous operation an alternating current flows through said condenser or a pulsating unidirectional current flows through said winding accordingly as the last mentioned valve is, or is not, conductive.

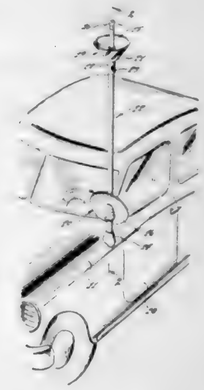
2,528,590

AUTOMOBILE MIRROR FOR PROVIDING A 360° VIEW TO THE DRIVER

Harry Garlow, Flemington, N. J.

Application March 10, 1949, Serial No. 80,602
1 Claim. (Cl. 88—85)

A mirror construction for automobiles comprising a vertical support mounted to said automobile in vertical position, a lower substantially flat mirror disposed in a plane forming an acute angle with the axis of said support and mounted rotatably upon the axis of said support on the lower end of the latter, and an inverted conical upper mirror secured to the upper end of said support, said lower and upper mirror combined providing a 360° view to the driver of the automobile upon rotating said lower mirror upon the axis of said support.

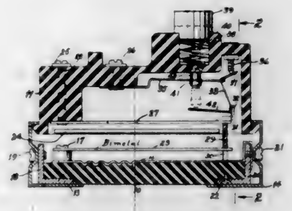


2,528,591

ELECTRIC RELAY

Benjamin E. Getchell, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut

Application January 11, 1946, Serial No. 640,483
8 Claims. (Cl. 200—122)



1. A relay including a spring switch arm fixed at one end and having a switch contact at a movable end, a resilient supporting arm parallel to the switch arm, a latch member hinged to the supporting arm, a calibrating member serving as an abutment for a part of said latch member, a contact carried by the latch member and releasably coacting with the contact on the switch arm, means for retracting said switch arm from said latch contact, said means including a bimetal element actuated by an overload in the circuit, said latch member being biased by its supporting arm to move to an open circuit position when released by said switch arm, said latch member having an arm extending away from its contact and a resetting member coacting with said latch arm.

2,528,592

PROCESS FOR THE PRODUCTION OF DIMERIC CONDENSATION PRODUCTS FROM UNSATURATED ALDEHYDES

Reginald Harold Hall, Sutton, and Karl Heinrich Walter Tuerck, Banstead, England, assignors to The Distillers Company, Limited, a British company

No Drawing. Application February 18, 1947, Serial No. 729,396. In Great Britain March 4, 1946

10 Claims. (Cl. 260—601)

1. A process for the production of dimeric condensation products of unsaturated aldehydes which comprises treating a substance consisting essentially of an alpha-beta-disubstituted acrolein, having a secondary carbon atom attached to each of the alpha and beta carbon atoms of the acrolein residue, in the liquid phase with a solution of an alkali metal hydroxide, and continuing said treatment until the major reaction product is the salt of a dimeric monobasic hydroxy acid containing twice the number of carbon atoms as said disubstituted acrolein.

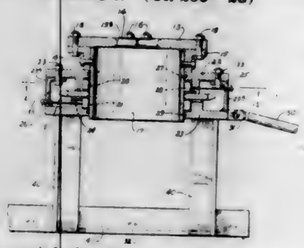
2,528,593

RAT HOLE DRILLING DEVICE

James W. Hickerson, Sr., Archer City, Tex.

Application May 10, 1948, Serial No. 26,093

2 Claims. (Cl. 255—23)



1. In a rat hole drilling device for use with a rotary rig, a base, upright standards secured to said base and adapted to support a frame on the upper ends thereof, said frame having a bore therein adapted to receive a sleeve therethrough, said sleeve having a sprocket secured thereto, a second frame member having a bore therethrough adapted to fit around said sleeve and upon the first mentioned frame, said sleeve projecting upwardly and having an out-turned flange removably secured thereto, bearings journaled to the respective frames above and below said sprocket, said sleeve having a bore therein of sufficient size to receive a drill bit therethrough, a drive bushing positioned on top of said sleeve and secured to said flange, said bushing having a hole therethrough and being split so as to fit around a Kelly joint, the hole in said bushing being of approximately the shape of the cross-sectional area of said Kelly joint, said Kelly joint with said drill bit on the lower end thereof being adapted to pass through said hole in said sleeve to be engaged by said split bushing and rotated therewith, the edges of said bushing hole being rounded to permit the free sliding action of the Kelly joint thereon.

2,528,594

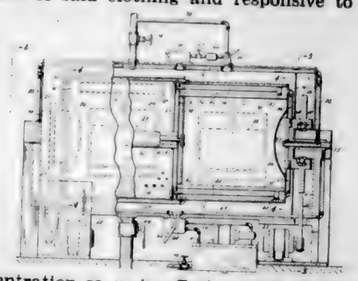
LAUNDRY MACHINE

Leo M. Kahn, Island Park, N. Y.

Application August 10, 1945, Serial No. 610,035

15 Claims. (Cl. 68—24)

1. In a washing and drying machine having a cylinder rotatable at low speed for washing operations and at a high speed for centrifugal drying operations, means for concentrating and localizing washed clothes in a portion of said cylinder during low speed rotation thereof, and control means disposed in said portion of concentration of said clothing and responsive to said



concentration so as to effect a shift of rotation of said cylinder from low to high speed, the response of said control means being governed by the physical contact therewith of said concentrated clothes.

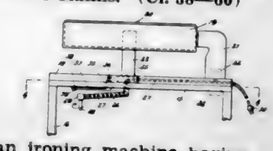
2,528,595

SHIFTABLE SUPPORT FOR IRONERS

Leo M. Kahn, Brooklyn, N. Y.

Application April 30, 1946, Serial No. 666,119

4 Claims. (Cl. 38—60)



1. In an ironing machine having a shoe, an elongated roll and a motor operatively connected to one end of said roll, the other end of the roll being free, an elongated support for said machine, a pivot pin connected to said machine at a point spaced horizontally from said motor, said support being formed with an elongated slot therein in which said pivot pin rides, said pivot pin being operative to maintain said roll and support in a first position where they are in a superimposed relationship with their respective longitudinal axes parallel, said pivot pin being further operative to permit said roll together with its shoe and motor to revolve in a horizontal plane until said axis of said roll is perpendicular to and bisects the longitudinal sides of said support whereby a second position is assumed where the unconnected or free end of said roll faces in a direction which is faced by a side of said roll when in said first position, said slot formed in said support being effective in permitting said pivot pin and machine to be moved rearwardly relative to said support until the unconnected end of said roll is substantially flush with and disposed centrally of a side or working edge of said support.

2,528,596

CONDENSER HAVING A LAMINATED DIELECTRIC THICKENED AT ITS MARGINAL PORTIONS

Albert Liechti, Zurich, Switzerland, assignor to Micafil A.-G., of Zurich-Altstetten, Switzerland, a corporation of Switzerland

Application February 11, 1948, Serial No. 7,608

In Switzerland February 19, 1947

10 Claims. (Cl. 175—41)

1. In an electric roll condenser having more than two metallic layers and between each two metallic layers a dielectric built up of a plurality of full width insulating layers and having a middle portion and marginal portions, at least one

relatively narrow insulating layer inserted between two of said full width layers in each of said marginal portions.

2,528,597

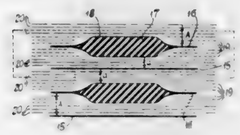
LAMINATED ELECTRIC CONDENSER

Albert Liechti, Zurich, Switzerland, assignor to Micafil A. G., Zurich-Altstetten, Switzerland, a corporation of Switzerland

Application March 24, 1948, Serial No. 16,823

In Switzerland February 19, 1947

6 Claims. (Cl. 175—41)



1. An electric roll condenser comprising dielectric masses having each a relatively thin central portion and relatively thick lateral border portions, longitudinal metallic layers composed of two laminae joined at their lateral border portions and spaced from one another at their central portions and individually interposed between always two of said masses, said masses comprising each a full width insulating layer abutting at its central portion a side of said metallic layers, and an additional small width package of insulating material disposed between a side of a border portion of said full width insulating layer and a border portion of one of said metallic layers.

2,528,598

LAMINATED ELECTRIC CONDENSER

Albert Liechti, Zurich, Switzerland, assignor to Micafil A. G., Zurich-Altstetten, Switzerland, a corporation of Switzerland

Application March 24, 1948, Serial No. 16,822

In Switzerland February 19, 1947

2 Claims. (Cl. 175—41)

1. A high tension electric roll condenser comprising, in combination, relatively thin metallic laminae, relatively thick dielectrics individually composed of a plurality of layers of oil impregnated material and individually disposed between said metallic laminae and having an inner region and border regions, and a small width dielectric placed on each side of said first dielectrics at a border region thereof, said small width dielectric being composed of at least two small width layers of oil impregnated material and having the same dielectric constants.

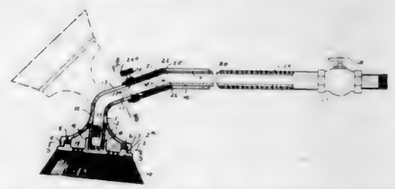
2,528,599

FOUNTAIN BRUSH

Raymond H. Loether, Pittsburgh, Pa.

Application April 29, 1947, Serial No. 744,628

2 Claims. (Cl. 15—128)



1. In a fountain brush an adapter having a flared end and a center projection with a threaded end portion for receiving a brush, a brush having a threaded socket interacting with the threaded end of the adapter, the flared end of the adapter having a shoulder for engaging the brush and for sealing a fluid chamber constituted by the base of the brush and the adapter, the brush having a tongue interacting with a flange of the flared end of the adapter and constituting a sealing surface, a sealing gasket disposed between said shoulder and tongue, the brush being provided with bristles and having perforations communicating with the fluid chamber of the adapter and said center projection having slots communicating with a fluid supply source.

2,528,600

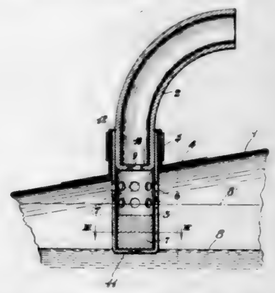
AIR INLET VENT

Herman Lombard, United States Navy

Application November 26, 1943, Serial No. 511,861

5 Claims. (Cl. 137—69)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

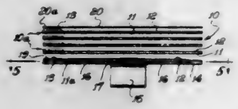


1. An air vent comprising a light tubular member adapted for a tight slidable insertion in a corresponding opening in the top of a tank and having a seat with an opening therein formed in proximity of the point where the member passes through the top of the tank and made by a turned end of a telescopic sleeve inserted in said tubular member, and a float valve freely slidable in said member having a surface to fit said seat and being retained in said member by tongues bent inwardly at the lower end thereof.

2,528,601
COPPER-TIN ALLOY PLATING
Frederick A. Lowenheim, Plainfield, N. J., assignor to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 5, 1946, Serial No. 639,409
8 Claims. (Cl. 204—44)

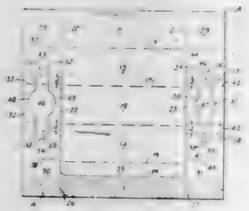
1. Method of electroplating a copper-tin alloy from a plating bath with which only a single anode circuit is used, said bath containing an aqueous solution of alkali metal cyanide and alkali metal hydroxide and having copper and tin dissolved therein, which comprises regenerating the bath by adding copper stannate thereto, and plating said alloy from said bath.

2,528,602
CLEANING PAD
Harry Magit, Los Angeles, Calif.
Application January 17, 1949, Serial No. 71,283
6 Claims. (Cl. 15—209)



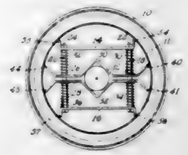
1. A cleaning pad, comprising a base sheet, a plurality of layers mounted on said sheet, each layer including a sheet of material having a pressure sensitive adhesive coating on one of its faces, the layers being arranged upon one another with the other of the faces of a sheet of material engaging the adhesive coating of an adjacent layer, each layer being peelable with respect to the underlying layer, adhesive material securing spaced portions of said base sheet to the lowermost sheet of material, and a strap secured to said base sheet, said strap being disposed between said spaced portions and between said base sheet and the lowermost sheet of material, said strap having a portion adapted to be spaced from said base sheet to enable a person's fingers to be placed between said strap and base sheet.

2,528,603
CONTAINER
Richard W. McDermott, Hamden, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated, a corporation of Connecticut
Application November 16, 1945, Serial No. 629,019
6 Claims. (Cl. 229—37)



1. A folding carton, more particularly for radio tubes comprising, five side wall forming panels hingedly connected to one another along side fold lines, a closure flap cut from the stock of the fifth panel, the closure flap being equal in width to the length of the carton and hingedly connected to the fourth panel along one of said side fold lines, the remainder of the fifth panel being attached face to face to the first of said panels; and two article supporting end structures articulated to said first and fifth panels attached face to face, each of said end structures comprising, a double ply outer end panel, the plies of said outer end panel being hingedly connected to said first and fifth panels, respectively, along substantially coinciding end fold lines normal to said side fold lines, said end fold lines being spaced apart a distance equal to the width of said closure flap, said end panel being foldable into a position at right angles with respect to said attached first and fifth panels, an inner panel spaced from said double ply outer panel, said inner panel having article supporting means, and a pair of connecting panels hingedly connected along parallel fold lines to said inner panel and said outer end panel, respectively, for holding the inner panel in parallel spaced relation with respect to said outer end panel.

2,528,604
SHADE SUPPORT AND EXTINGUISHER FOR CANDLES
James A. McHollan, Valley Stream, N. Y.
Application July 13, 1948, Serial No. 38,490
6 Claims. (Cl. 240—141)



1. A candle-shade supporter comprising a frame having side members with free ends lying in the same circle and adapted to cooperate with a candle-shade, said side members being connected only by a single pair of cross-bars attached at their ends to said side members and rigidly supporting the latter in spaced relation, candle-engaging members having adjacent free ends which are adapted to be manually engaged and are slidingly supported on said pair of cross-bars, and spring means cooperating with each side member and the adjacent candle-engaging member and tending to hold said candle-engaging members in engagement with one another while permitting their manual separation to engage a candle.

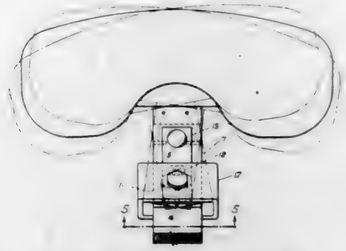
2,528,605
MOTOR FUELS
William Arthur Partridge and Harold John Alty, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
No Drawing. Application September 20, 1946, Serial No. 698,406. In Great Britain September 21, 1945
4 Claims. (Cl. 44—69)

1. A stabilised gasoline for use in internal combustion engines, said gasoline containing tetraethyl lead as anti-knock reagent and a small amount of an agent for preventing the formation of lead-containing precipitate, said agent being a compound of the formula CH_3COR, where R is a radical selected from the group consisting of OH, $OCOCH_3$, NH_2, and ONa.

2,528,606
MOLDING POWDER CONTAINING ORGANOSILOXANE RESIN AND ETHANOLAMINE
William W. Pedersen, Cleveland Heights, Ohio, assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application April 16, 1946, Serial No. 662,606
3 Claims. (Cl. 260—37)

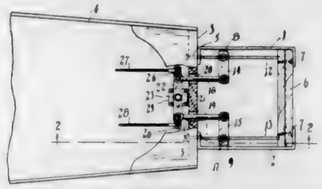
1. A molding powder composed of an inorganic filler, an organosiloxane resin in which the organic groups are methyl and phenyl radicals, and an ethanolamine in amount from 0.4% to 5.0% by weight of said siloxane, said resin containing between 0.5 and 1.4 organic groups per silicon atom, and being in a partially condensed state, and said inorganic filler being coated with the resin.

2,528,607
ADJUSTABLY MOUNTED SEAT
William J. Preising, New Albany, Ind., and Roy H. Bynum, Louisville, Ky., assignors to B. F. Avery & Sons Company, Louisville, Ky., a corporation of Delaware
Application July 7, 1948, Serial No. 37,426
8 Claims. (Cl. 155—121)



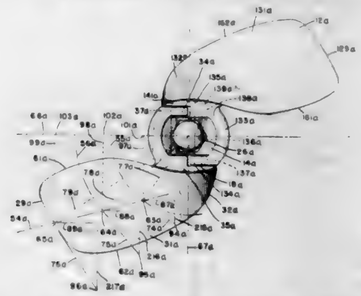
1. An adjustable seat for a tractor or the like comprising: a seat post; a seat bracket pivoted on a horizontal axis to the seat post and rotatable about said axis; said seat bracket having a transverse slot adjacent one end; a ratchet plate having an aperture in alignment with said slot, said seat bracket and ratchet plate having cooperating means to retain said bracket and plate in fixed relation; a pin passing through said aperture and slot; and means yieldingly holding said plate and bracket in engagement.

2,528,608
OUTBOARD MOTOR MOUNT AND STEERING MECHANISM
Elmer William Rickard and Horace Enoch Rickard, Toronto, Ontario, Canada
Application November 29, 1947, Serial No. 788,854
2 Claims. (Cl. 114—163)



1. In an outboard motor boat, the combination of a pair of vertically disposed laterally spaced brackets secured to and extending from the stern of the boat, a vertically disposed motor mounting board extending horizontally between the rear edges of the brackets, a pair of vertically disposed rudder shafts each having a rudder blade attached to the lower end thereof, journal means on each of the brackets for rotatably supporting one of the rudder shafts, a pair of tiller arms each having one end secured to one of the rudder shafts, a substantially vertical column journaled within the boat and adjacent the stern thereof, a pair of transverse control arms extending from the vertical column adjacent the bottom of the boat, said control arms being adapted to be actuated by control means remote from the rudder, a pair of rudder actuating arms extending from the vertical column above the said control arms, and a link connecting each of the rudder actuating arms with one of the tiller arms, the stern of the boat being provided with apertures through which the links pass, said apertures being located sufficiently above the bottom of the boat to avoid leakage of water therethrough and sufficiently below the upper edge of the motor mounting board that the rudder controlling mechanism will not interfere with the motor when it is tilted inwardly to raise the propeller from the water.

2,528,609
PROPELLER
Edward H. Rouse, St. Louis Park, Minn.
Application April 8, 1946, Serial No. 660,508
5 Claims. (Cl. 170—160.57)

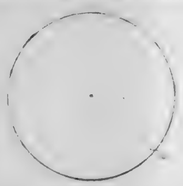


1. In a propeller, a hub, a swinging blade carried thereby, an attaching member at the inner end of the blade, pivot means acting between said attaching member and hub and disposed in proximity to the axis of said hub, said pivot means having its axis at right angles to a plane containing the axis of said hub, a part of the median line of said blade at the outermost portion thereof being disposed within the space between said plane and a plane containing the axis of the hub and at right angles to the first plane, said portion of the median line of the blade forming an outwardly diverging angle of between 12° and 15° with said first plane said portion of the median line if extended intersecting the first named plane outwardly of said hub.

2,528,610
SOUND RECORD DISK
Thomas F. Saffady, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Vogue Recordings, Incorporated, Warren Township, Mich., a corporation of Michigan, and one-half to William T. Sevald, Royal Oak, Mich.
Application March 2, 1946, Serial No. 651,458
10 Claims. (Cl. 274—42)

2. A sound record comprising a backing disc, a thermoplastic adhesive layer enveloping said

disc, slightly larger design discs on either side of said backing disc, layers of transparent material larger than said design discs on said design discs, a thicker portion in said transparent layers



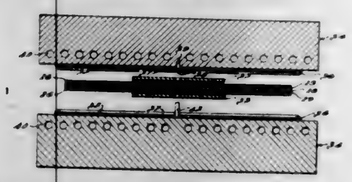
outside the area of said backing disc and said design discs uniting said layers at their peripheries, and sound tracks in the exposed surfaces of said layers.

2,528,611
METHOD OF MAKING ILLUSTRATED PHONOGRAPH RECORDS

Thomas F. Saffady, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Vogue Recordings, Incorporated, Warren Township, Mich., a corporation of Michigan, and one-half to William T. Sevald, Royal Oak, Mich.

Continuation of application Serial No. 612,436, August 24, 1945. This application March 18, 1947, Serial No. 735,280

9 Claims. (Cl. 154—110)



4. The method of manufacturing an illustrated phonograph record comprising, coating a core member with a bonding agent, pre-heating said coated core member, positioning a paper illustration on said core member, positioning a biscuit of thermo-plastic material on said paper illustration, and subjecting the group to heat and pressure under a sound track forming matrice to extrude said biscuit over said illustrations, to bond said illustrations to said core via said bonding agent, and to bond said biscuit material to said illustrations whereby an integrated illustrated phonograph record is produced.

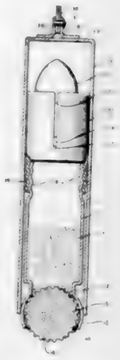
2,528,612
COSMETIC CASE

Tamara Schildkraut, Great Neck, and Helene Schildkraut, New York, N. Y.

Application September 23, 1947, Serial No. 775,612

3 Claims. (Cl. 132—79)

1. A cosmetic case of the character described, comprising an elongated magazine open at both ends, one of said openings being restricted and having a chamber of circular cross section extending therefrom, said chamber having an outlet opening of a width less than the diameter of said chamber, a circular member snugly and rotatably arranged within the said chamber, said member extending into the said restricted opening and out of said outlet opening and having a plurality of powder receiving depressions on its surface, a closure on the other end of said magazine, said closure having an upstanding flange forming a lipstick housing, and a cover fitted over



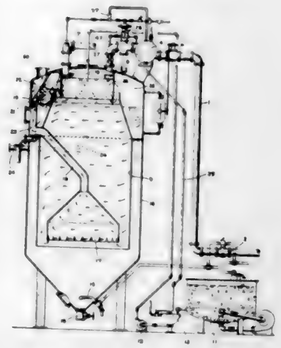
said magazine and said closure therefor and frictionally held in place thereon.

2,528,613
TEMPERATURE CONTROL APPARATUS FOR VENT CONDENSERS

Joseph F. Sebald, Bloomfield, N. N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware

Application December 20, 1947, Serial No. 792,889

16 Claims. (Cl. 210—14)



1. In a hot process water treating apparatus, the combination with water softening and deaerating means, means delivering steam to said water softening and deaerating means, a vent condenser, means for delivering residual steam from said water softening and deaerating means to said vent condenser, means for delivering raw water to be treated to said vent condenser wherein it acts as circulating cooling water to condense steam in the vent condenser, and means for delivering the circulating water from said vent condenser to said water softening and deaerating means, of a valve in said residual steam delivery means for controlling the quantity delivery of residual steam to said vent condenser, pressure operated means connected to said valve for operating said valve, means for delivering pressure operating fluid to said pressure operated means, a second valve in said pressure operating fluid delivery means for controlling delivery of operating pressure fluid to said pressure operated means, and temperature operated means controlling operation of said second valve.

2,528,614
VAT DYEING PROCESS FOR CELLULOSE ACETATE TEXTILE MATERIAL

George W. Seymour, George C. Ward, and Robert L. Hunter, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application October 2, 1946, Serial No. 700,828

3 Claims. (Cl. 8—36)

1. Process for the coloration of cellulose acetate textile materials, which comprises mechanically impregnating a cellulose acetate textile material with an aqueous suspension of an indigoid vat dyestuff, drying the dyestuff impregnated textile material, impregnating the latter with an aqueous solution containing 2 to 15% by weight of sodium sulfoxylate formaldehyde and 5 to 10% by weight of di-ethanolamine, steaming the wet textile material until the indigoid vat dyestuff is reduced to the leuco form, and then oxidizing the leuco indigoid vat dyestuff to the final colored form in an aqueous solution of sodium dichromate acidified with acetic acid.

2,528,615
SILOXANE RESINS

Earle J. Smith, Midland Township, Midland County, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application January 21, 1946, Serial No. 642,441

2 Claims. (Cl. 260—46.5)

1. A resinous siloxane the structural units of which are as follows:

$CH_3SiO_{1.5}$

$C_6H_5SiO_{1.5}$

$C_6H_5CH_3SiO$

said siloxane containing 10 to 40 mol. per cent of mono methyl siloxane units, 9 to 20 mol. per cent of mono phenyl siloxane units, and 40 to 70 mol. per cent of methyl phenyl siloxane units, in which siloxane the silicon atoms are linked together by an alternating lattice of oxygen and silicon.

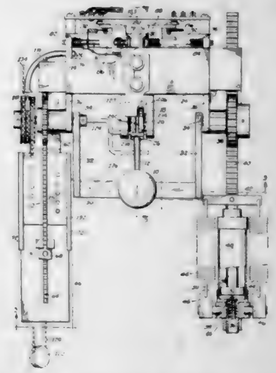
2,528,616
GOLF DRIVING MACHINE

Harvey R. Smith, Ann Arbor, Mich.

Application February 16, 1948, Serial No. 8,641

5 Claims. (Cl. 273—35)

1. Golf practice driving apparatus comprising a ball element, a normally erect support for the ball element, means mounting said support at its base for swinging of its upper end carrying the ball element, both forward and sidewise from its erect position, upon said ball element being struck by a golf club in either such direction, actuating means connected to said support and movable thereby, a pair of members cooperating with said actuating means and disposed for engagement selectively by movement of said actuating means upon sidewise swinging of the ball element support in one direction or the other, respectively, and separate deviation indicating elements guided for displacement selectively by movement each by a different one of said members, to indicate by such displacement, sidewise



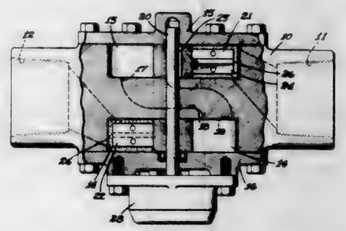
deviation from a reference path of the direction in which said ball element is driven.

2,528,617
ROTARY FLUID MOTOR

Elmer D. Smyser, Torrance, Calif., assignor of one-half to Fred C. Ripley, Los Angeles, Calif.

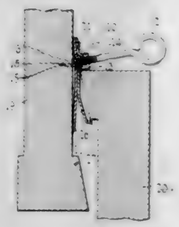
Application November 13, 1944, Serial No. 563,277

2 Claims. (Cl. 121—78)



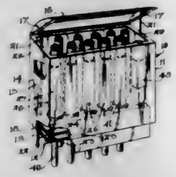
1. A flow meter comprising a body having first and second chambers arranged in side by side relationship, said body having oppositely positioned bosses, one of the bosses being apertured and internally threaded to provide an inlet leading to the forward side of the first chamber only, the other boss being apertured and internally threaded to provide an outlet leading from the rear of the second chamber only, the inlet and outlet being in line with one another, the internally threaded bosses being positioned on opposite sides of the chambers and enabling the flow meter to be inserted in a pipe line, a shaft extending through both chambers, pistons mounted upon said shaft and disposed in said chambers respectively, gates swingably mounted in the chambers adapted to engage the forward sides of the pistons to cause uni-directional flow through the chambers and thus cause the pistons to drive the shaft by the flow, said body being hollowed out to provide a duct leading from the rear side of the first chamber to the forward side of the second chamber forwardly of the gate therein whereby fluid entering from the inlet may drive the piston in the first chamber and then flow through the duct into the second chamber to drive the piston therein before discharging through the outlet.

2,528,618
WINDOW LOCK
John Sossi, Bayside, N. Y.
Application October 13, 1945, Serial No. 622,214
2 Claims. (Cl. 292—343)



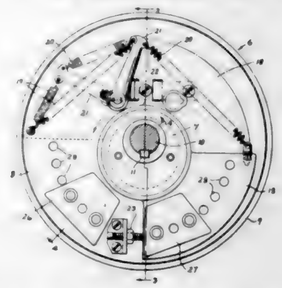
2. A window lock of the character described, comprising a pair of substantially parallel plates having free end portions adapted to be inserted intermediate an upper and lower window sash, one of said plates having an internally boss formed thereon, a thumb screw engaged in the said boss, the second of said plates being freely and fixedly mounted on the inner end of said thumb screw, whereby the space between said plate ends may be adjusted, and lugs on the side edges of said second plate adapted to engage against the edges of said first plate to limit the rotation of the plates relative to one another.

2,528,619
ELECTRIC LIGHTER AND DISPENSER FOR CIGARETTES
Bernard Stein, Ozone Park, N. Y.
Application December 11, 1947, Serial No. 791,000
4 Claims. (Cl. 219—32)



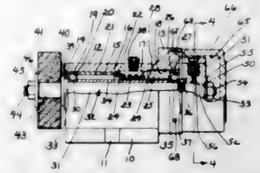
1. A cigarette dispensing device for lighting and dispensing any selected cigarette of a plurality of such cigarettes before it is withdrawn from the device comprising a case, a plurality of dispensing and lighting devices arranged in parallel relation and in parallel rows in the case, each device being upright and in spaced relation to the adjacent devices and each including a push rod mechanism having a stem projecting downwardly below the case, a resistance member supporting the lower end of a cigarette, a cylinder guiding the cigarette, an insulating member slidable non-rotatably in the cylinder and carrying the resistance member, a blade spring projecting radially through the cylinder and carried by the insulating member, a pair of spaced contacts on the outside of the cylinder and in vertical alignment with the respective ends of the resistance member and means on the cylinder halting the movement of the projecting outer end of the spring toward the contacts before the contacts are bridged by the resistance member, the blade spring yielding to permit the final part of the movement of the resistance member into contact with said contacts.

2,528,620
SCREEN VIBRATING MECHANISM
Robert Stroud, Toronto, Ontario, Canada, assignor to Niagara Screens & Machines Limited, York County, Ontario, Canada, a corporation
Application September 24, 1949, Serial No. 117,539
8 Claims. (Cl. 74—87)



1. Screen vibrating mechanism comprising a driving shaft, a flywheel on the shaft, a circular disk, fixed relatively to the flywheel and surrounding the shaft, the geometrical axis of the disk being eccentric of the geometrical axis of the shaft, a slidable collar on the disk, a mass attached to the collar adapted to swing relative to the disk by centrifugal force, and spring means connected between the flywheel and the movable mass tending to return the mass to a predetermined at rest position.

2,528,621
GRINDING WHEEL TRUING APPARATUS
Chauncey E. Sweetser, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application July 11, 1947, Serial No. 760,366
4 Claims. (Cl. 51—134.5)

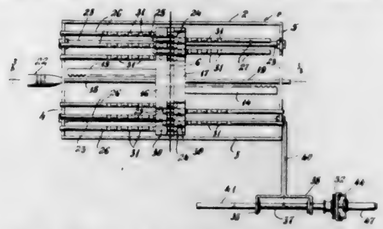


1. Truing apparatus for grinding wheels comprising a spindle having a portion upon which a truing grinding wheel can be mounted, a truing grinding wheel secured on said portion, said truing grinding wheel comprising crystalline abrasive in a vitrified bond, a housing, bearings in said housing journalling said spindle, a member connected to and on said spindle and mounted for rotation, brake shoes mounted on said member, springs operating against said brake shoes, and a brake drum surrounding said brake shoes whereby when said truing grinding wheel is rotated by a grinding wheel to be trued the truing grinding wheel will rotate at a predetermined rate.

2,528,622
MACHINE FOR FORMING ROSETTES
William L. Teemsma, Rutherford, N. J.
Application December 8, 1949, Serial No. 131,870
6 Claims. (Cl. 223—46)

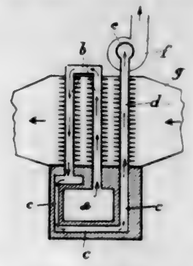
1. A rosette-forming machine comprising a frame, a cross bar midway the length of said

frame, rods extending longitudinally in said frame and through the cross bar and supporting the cross bar, cross heads extending transversely of said frame and slidable along said rods towards and away from opposite sides of said cross bar, a yoke mounted under said cross bar, a gear midway the length of the yoke rotatably supported by the cross bar and the yoke, rack bars extending from said cross heads and through space between the yoke and the cross bar with their teeth meshing with said gear, handles extending from said cross heads and through ends of said frame, rods extending longitudinally of said frame with outer end portions slidably passing through open-



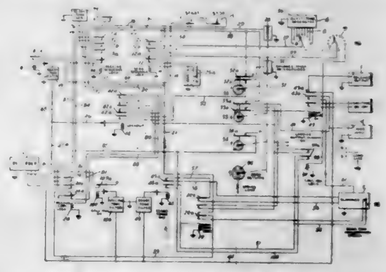
ings in end bars of the frame and their inner end portions passing through openings in the cross heads and bent to form fingers projecting from the said cross heads in transverse spaced relation to each other, said rods being formed with notches spaced from each other longitudinally thereof, set screws carried by the cross heads and engaged in selected ones of the notches and holding the rods in adjusted positions, the fingers of each cross head being in staggered relation to the fingers of the other cross head and serving to engage portions of a ribbon and move the same in opposite directions to form undulations therein when the cross heads are moved away from each other.

2,528,623
LOW-TEMPERATURE HEATER FOR HEATING AIR
Pierre Georges Vicard, Lyon, France
Application July 10, 1947, Serial No. 760,056
In France April 11, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires April 11, 1961
4 Claims. (Cl. 126—99)



1. In a low temperature heater, a heating element having on the interior a chamber for fuel combustion and a passage around the same separated therefrom by a heat conductive wall surrounding said chamber; and a plurality of exposed heat exchangers each including a tube having a smooth interior surface and carrying fins on the exterior surface for providing a large surface area, and each arranged so as to conduct gases through its interior and so as to be surrounded by the cool air to be heated and to heat the same, one of said heat exchangers connected with one end to said chamber and with its other end to one end of said passage for receiving combustion gases developed in said chamber and emanating therefrom at elevated temperatures and for conducting them to said passage, and another of said heat exchangers connected to the other end of said passage for conducting gases therefrom, said passage thus connecting said heat exchangers and adapted to conduct gases therebetween and adjacent to said heat conductive wall surrounding said chamber for causing the gases to be reheated.

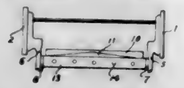
2,528,624
AUTOMATIC OPERATION AND SELECTIVE CALLING SYSTEM
Philip E. Volz, Orange, N. J., assignor, by mesne assignments, to Pierce Company, Providence, R. I.
Application March 19, 1947, Serial No. 735,753
6 Claims. (Cl. 178—3)



1. In a signalling system including a plurality of stations, a signalling channel interconnecting said stations, each of said stations having a transmitting device for transmitting signals over said channel, a receiving device for receiving signals over said channel, a query tone generator device for generating signals individual to each of the other stations of the system, a selector switch for selecting one of said query tones, a motor driven sequence switch, manually controlled circuit connections for energizing said motor driven sequence switch, circuit connections controlled by said sequence switch for connecting said query tone generator to said signalling channel, first circuit connections for connecting said transmitting device to said signalling channel, second circuit connections for connecting said receiving device to said signalling channel, said sequence switch controlling said first and second circuit connections, a ready tone generator individual to each station, circuit connections including a relay responsive to a received signal for connecting said ready tone generator to said signalling channel, circuit connections including a send copy lock relay responsive to a predetermined individual received ready tone signal for initiating operation of a scanner, a receive copy relay and circuit connections including said receive copy relay for initiating operation of said receive copy relay, a lock out relay, circuit connections including said lock out relay responsive to a predetermined signal from the calling station for locking out all other stations from seizing control of the signalling channel during the signalling of said calling station, circuit connections at each of said stations operative in the event of simultaneous operation of said manual control for said se-

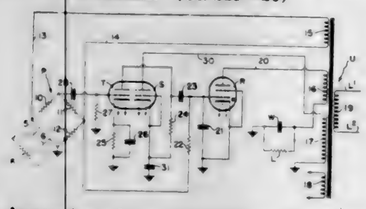
quence switch for permitting one of said stations to take control and lock out the other of said simultaneously operating stations, and circuit connections controlled by said scanner at the end of scanning operations for de-energizing said motor driven sequence switch.

2,528,625
SELF-ALIGNING LAWN-MOWER BLADE
Frank P. Voytershark and Donald L. Churchill, Devon, Milford, Conn.; said Voytershark assignor to said Churchill
Application October 23, 1945, Serial No. 624,020
3 Claims. (Cl. 56—289)



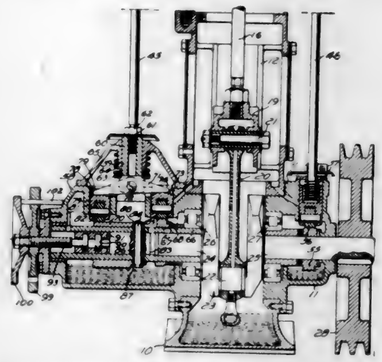
1. In a lawn mower having a wheeled frame and a cutting reel rotatably supported on said frame, a pair of transverse clamping bars on said frame rearwardly of said reel, a fixed flexible cutting blade clampingly engaged between said clamping bars for cooperation with said cutting reel, and a reinforcing plate underlying said fixed blade along the length thereof, said reinforcing plate tapering outwardly from the center of said fixed blade for stiffening said fixed blade decreasingly from the center to the opposite ends thereof.

2,528,626
CONTROL APPARATUS
William H. Wannamaker, Jr., Flourtown, and James C. Mouzon, Wyndmoor, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 30, 1947, Serial No. 745,006
4 Claims. (Cl. 219—20)



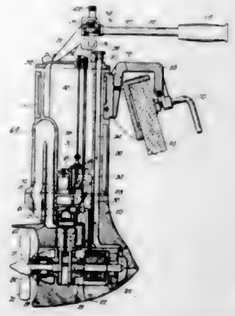
1. Apparatus for maintaining the average value of a fluctuating current flowing through a resistor proportional to the value of a variable control condition comprising in combination a thyratron having an anode, a cathode, and a control grid, an impedance including said resistor and a condenser in parallel therewith, conductors adapted to connect a source of alternating current in series with said impedance, anode and cathode and thereby form the output circuit of said thyratron, the capacity of said condenser and the resistance of said resistor being related to one another so that said condenser may maintain a diminishing current flow through said resistor during a plurality of cycles of alternation of said current following each half cycle in which said thyratron becomes conductive and thereby progressively increase the plate-cathode voltage of said thyratron, an element responsive to the value of said condition, and bias means actuated by said element to increase the potential of said grid relative to that of said cathode as the value of said condition departs from a predetermined normal value whereby said thyratron is made conductive at intervals which correspond to the duration of one or more cycles of alternation of said current and which vary inversely with the departure of said control condition from its normal value.

2,528,627
OPERATING MECHANISM FOR THE INTAKE VALVES OF EXPANDER ENGINES
Harold W. Whiting, Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application November 5, 1945, Serial No. 626,741
12 Claims. (Cl. 121—167)



4. In an expander engine having a crank case, a crank shaft, a cylinder and an intake valve for said cylinder, means for opening and closing said intake valve including an axially movable tappet, means operatively connecting said tappet to said intake valve, a lever pivotally connected intermediate its ends to the end of said tappet remote from said intake valve, actuating bodies slidably carried by said crank case and engaging the end portions of said lever, cam rollers carried by said slidable actuating bodies, and cams for operating said actuating bodies by moving said lever and tappet to operate said intake valve.

2,528,628
VENTILATED UNDERWATER INTERNAL-COMBUSTION ENGINE
Robert B. Whitney, Kansas City, Mo., assignor of one-half to Wayne B. Weed, Kansas City, Mo.
Application May 14, 1945, Serial No. 593,583
13 Claims. (Cl. 115—18)



1. In an outboard motor, an internal combustion engine having a cylinder block wherein is

disposed ignition apparatus including a generator; a bracket for operably supporting the engine in place with the block below the surface and in direct contact with the water; and a conduit formed in the block with one end thereof open to the atmosphere to conduct air to and from the ignition apparatus and thereby ventilate the same.

2,528,629
ARTIFICIAL DENTURE
George A. Wiechert, St. Albans, N. Y.
Application October 14, 1948, Serial No. 54,393
6 Claims. (Cl. 32—2)

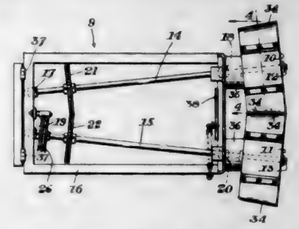
2. A lower metallic denture having molar and bicuspid teeth, each tooth having an occlusal milling surface extending transversely from the lingual side of the tooth to about half way to the buccal side of the tooth and substantially the length of each tooth, the height of the tooth in the buccal side being lower than said surface, said denture having respectively deep buccal and lingual recesses between the teeth and a vertical hollow ground blade projecting upwardly between said teeth no higher than said surface and lying in a substantially mesio-distal plane, the extent of said surface terminating past said blade in a buccal direction.

2,528,630
OPEN OUT BED JACKET
Elizabeth L. Winkler, Great Neck, N. Y.
Application August 25, 1949, Serial No. 112,336
1 Claim. (Cl. 2—114)

An open out bed jacket comprising a front portion having a neck opening, separable back portions, the front and back portions adapted to extend over the shoulder and over the front and back of the wearer, fastening elements connected to the separable back portions and adapted to engage with one another to connect the back portions together and the jacket about the back of the wearer, fastener elements on the front and back portions and cooperable with one another to connect the portions together beneath the arms and to provide the arm openings for the jacket, parallel stiffening stitchings extending between the front and back portions and adapted to lie over the shoulders of the wearer to stiffen the shoulder formations provided thereby and trimming material extending around the entire periphery of the front and back portions except for the overlapping of the back portions and about the neck opening.

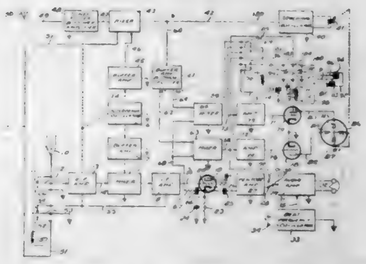
2,528,631
POTATO TOP PULLER
Thomas Isaac Wiper, Arnold Wiper, and Gerald Robert Truskey, Leamington, Ontario, Canada
Application May 31, 1949, Serial No. 96,166
3 Claims. (Cl. 55—66)

1. A top puller comprising a frame, two shafts rotatably mounted in said frame, spaced apart pulling elements mounted intermediate their ends on each of said shafts, each of the ends of said elements being adjustable thereon and having locking means for locking the said ends in the desired position of adjustment, resilient



means carried by the ends of the said elements, and drive means for rotating said shafts in a plane at right angles to the direction of movement of the puller to cause an end of one element to coact with an end of the other element when moving in an upward direction.

2,528,632
FREQUENCY CONTROL SYSTEM
Frederick B. Woodworth, Hempstead, and Frederick A. Lindley, Jr., Flushing, N. Y., assignors to Smith-Meeker Engineering Co., New York, N. Y., a corporation of New York
Application March 13, 1947, Serial No. 734,346
14 Claims. (Cl. 250—17)

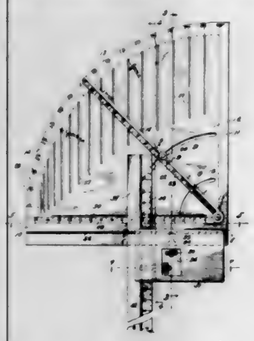


1. A self-tracking jamming system for radio carriers, comprising a superheterodyne receiver having a heterodyne oscillator and an intermediate frequency amplifier, a local oscillator operating at said intermediate frequency and having an adjustable frequency control element, mixer means to combine the oscillations from said last oscillator with oscillations from said heterodyne oscillator to obtain a carrier frequency output corresponding to the frequency of the received carrier, and means responsive to energy from said intermediate frequency amplifier and energy from said local oscillator to actuate said adjustable frequency control element so as to maintain said local oscillator in substantial synchronism with said intermediate frequency.

2,528,633
ROOFING AND CALCULATING SQUARE
Guy R. Anderson, Conley, Ga., assignor of five per cent to W. F. McKinley, Atlanta, Ga.
Application July 21, 1948, Serial No. 39,869
2 Claims. (Cl. 33—97)

1. A device of the character described comprising a tongue, a blade formed integrally with the

tongue, a quadrant interconnecting the tongue and blade and provided with a plurality of pencil-guiding slots, a pitch arm pivotally connected at the center of the quadrant at either side thereof and extending to the periphery thereof, a handle slidably mounted upon the tongue, a pair of calculating arms slidably mounted in the han-



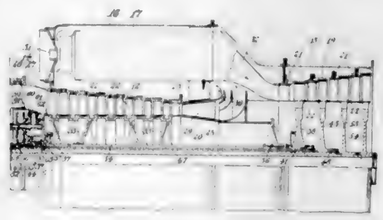
dle and lying one on either side of the tongue and quadrant perpendicularly to said tongue and indicia upon the quadrant on either side thereof adjacent the periphery thereof, indicia upon the pitch arms, indicia upon the calculating arms and indicia upon either side of the tongue, said pencil-guiding slots each being perpendicular to the tongue.

2,528,634
OPHTHALMIC GLASS
William H. Armistead, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application September 16, 1949, Serial No. 116,221
6 Claims. (Cl. 106—53)

1. A glass comprising essentially 32% to 48% SiO_2, at least one alkali metal oxide in the indicated proportion selected from the group consisting of up to 11% K_2O, up to 11% Na_2O, and up to 2% Li_2O, the selected alkali metal oxide including an oxide selected from the group consisting of K_2O and Na_2O in the above-indicated proportion, the total alkali metal oxide being between 6.5% and 11%, 36% to 54% PbO, 0.5% to 4% Al_2O_3, and 0.5% to 7% ZrO_2, the total Al_2O_3 and ZrO_2 being 2.5% to 10% the total of the essential constituents being at least 92%, the index of refraction (n_D) being 1.61 to 1.71, and the thermal expansion coefficient being between 84×10^{-7} and 91×10^{-7} cm. per cm. per °C. between 0° and 300° C.

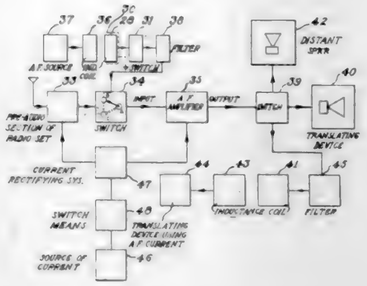
2,528,635
POWER GAS GENERATOR FOR INTERNAL-COMBUSTION POWER UNITS
Frank Robert Bell, Derby, Charles Alan Judson, Borrowash, near Derby, and Lionel Haworth, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application August 5, 1946, Serial No. 688,514
In Great Britain June 22, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 22, 1963
6 Claims. (Cl. 230—116)

1. A power-gas generator of the kind comprising a plurality of independently-rotatable coaxial nested shafts each inner shaft extending out from the ends of the shafts outside it, a plurality of compressor rotors arranged in series and grouped together mounted one on each shaft near one end thereof, a turbine rotor secured to each shaft at the other end thereof, a casing structure enclosing said shafts, compressor rotors and turbine rotors, bearing means for supporting each shaft from the casing structure located solely on the side of the turbine



rotor facing towards the associated compressor rotor and comprising a journal bearing between the compressor end of each shaft and the casing structure, a journal bearing supporting the outermost shaft from casing structure and located between the compressor rotor and turbine rotor carried by the outermost shaft, and journal bearing means between each inner shaft and the turbine end of the shaft next outside it.

2,528,636
RADIO RECEIVER OPERABLE FOR EITHER RADIO RECEPTION OR TELEPHONE AMPLIFICATION
Harry G. Cisin, Brooklyn, N. Y.
Application April 7, 1947, Serial No. 739,878
13 Claims. (Cl. 179—2)



1. A device of the character described, comprising in combination a radio receiver including a pre-audio section having an output and an audio frequency amplifier section having an input, inductance means, and electrical connections between said parts including change-over switch means, operable in one sense to disconnect said output of said pre-audio section from said input of said audio frequency amplifier section, and to connect said inductance means to said input of said audio frequency amplifier section, and operable in the opposite sense to disconnect said inductance means from said input of said audio frequency amplifier section and to reconnect said output of said pre-audio section to said input of said audio frequency amplifier section.

2,528,637
ALLOY STEEL
William Charles Clarke, Jr., Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio
No Drawing. Application August 14, 1947, Serial No. 768,718
5 Claims. (Cl. 148—31)

1. Heat-hardened stainless steel characterized by resistance to creep and stress rupture, the steel being of austenitic chromium-nickel grade free of amounts of ferrite beyond about 2% by volume, and containing, in addition to about 16% to 26% chromium and 6% to 30% nickel, about 0.05% to 0.5% phosphorus, and the remainder substantially all iron, and said steel having a finely divided precipitate in the matrix for slip interference at high temperatures produced by annealing at 2000° F. to 2250° F. and quenching followed by precipitation-hardening from 1200° F. to 1500° F.

2,528,638
ALLOY STEEL
William Charles Clarke, Jr., Dundalk, Md., assignor to Armco Steel Corporation, a corporation of Ohio
No Drawing. Application June 13, 1949, Serial No. 98,883
4 Claims. (Cl. 75—125)

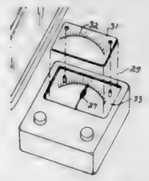
1. Austenitic chromium - nickel - phosphorus stainless steel of good high temperature properties and good low temperature strength and working properties as well containing approximately 0.01% to 0.15% carbon, 12% to 22% chromium, 8% to 21% nickel,, from 0.05% to 0.5% phosphorus, 1.5% to 4% molybdenum, 2% to 4% copper, 0.10% to 2% manganese, and the remainder iron.

2,528,639
COLLAPSIBLE HOOP SKIRT
Mary C. Clayton, Decatur, Ga.
Application August 12, 1948, Serial No. 43,922
13 Claims. (Cl. 2—216)

1. In a device of the character described, a collapsible upper hoop assembly comprising a plurality of identical strips, means pivotally uniting said strips at their center portions, means pivotally joining oppositely disposed adjacent ends of said strips, an identical lower hoop assembly of greater potential circumference than said upper assembly, pliant tape means connecting said upper and lower assemblies, and a waist band secured to the upper extremities of said tape members.

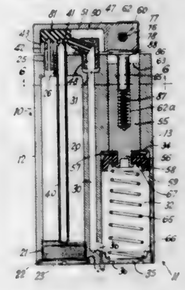
2,528,640
CHANGEABLE GRADUATED SCALE
Edwin D. Coleman, Maywood, Ill.
Application September 24, 1945, Serial No. 618,133
7 Claims. (Cl. 116—114)

1. A changeable graduated scale for use on measuring instruments or the like, comprising a panel provided with colored graduations, and a readily removable supplemental light transmitting panel of the color of said graduations provided with graduations of a different color



and superimposed upon said first panel, whereby said first graduations are rendered invisible and said different colored graduations are presented for observation.

2,528,641
ATOMIZER
William A. Cotter, New York, N. Y., assignor to Cotter Manufacturing Co., Inc., New York, N. Y.
Application February 4, 1948, Serial No. 6,165
7 Claims. (Cl. 299—88)

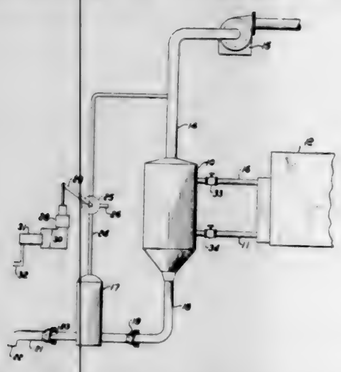


6. An atomizer comprising a casing having a chamber for holding liquid to be atomized, an atomizing nozzle projecting from said casing and communicating with said chamber, means for atomizing liquid from said nozzle including a member mounted for reciprocation on said casing and a member directly pivoted to said first mentioned member and provided with means for covering said nozzle in a horizontal position of said pivoted member, said pivoted member being movable to a vertical position and providing manually operable means for directly reciprocating said first mentioned member.

2,528,642
APPARATUS FOR CONVEYING LIQUIDS
Martin L. Cover, Allen Park, Mich., assignor to National Steel Corporation, a corporation of Delaware
Application January 30, 1947, Serial No. 725,359
4 Claims. (Cl. 210—62)

4. Apparatus for conveying filtrate liquid from a vacuum filter comprising a collector tank; a lower pipe connecting the lower portion of the collector tank with the filter for conveying liquid from the filter to the collector tank; an upper pipe connecting the upper portion of the collector tank with the filter for conveying air from the filter to the tank; exhaust means communicating with the upper portion of the collector tank for exhausting air from the collector tank and the filter and maintaining a subatmospheric pressure in the collector tank; a lower drain

tank; a pipe connecting the drain tank with the lower portion of the collector tank; a check valve connected to the pipe and constructed so that liquid flows only from the collector tank to the lower drain tank; a drain tank outlet communicating with the atmosphere; a check valve connected to the outlet so that liquid flows only from the drain tank; valve means connected to the drain tank, the valve means including a passage communicating with the atmosphere and a pas-



sage communicating with the exhaust means, and the valve means being operable to connect the drain tank with the exhaust means and being operable to connect the drain tank with the atmosphere; timer means operatively connected to the valve means and automatically operable at predetermined periods alternately to operate the valve means to connect the drain tank with the exhaust means and to operate valve means to connect the drain tank with the valve passage whereby the drain tank is alternately filled and emptied.

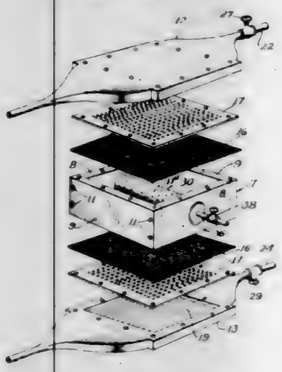
2,528,643

PROCESS AND APPARATUS FOR MOLDING POROUS CONCRETE PRODUCTS

Carbon Chatley Dubbs, Orange, Calif.

Application November 23, 1949, Serial No. 128,975

9 Claims. (Cl. 25—118)



1. The method of molding a relatively porous concrete product which comprises, placing a relatively fluid concrete mix within a closed mold, creating an internal pressure within the mix to compress and force the mix against the inner surfaces of the mold to express excess water from the mix and mold, directing streams of aeriform fluid into and through the mix to entrain and carry excess water from the mix and the mold, and then removing the compressed mix from the mold prior to initial set of the mix.

4. In an apparatus for molding a relatively porous concrete product, a closed mold to receive a relatively fluid concrete mix, a filter screen provided on said mold for the passage of excess water from the mix and the mold, an expansible member disposed within the mold to compress and force excess water from the mix and through the filter screen, means to inflate said expansible member with an aeriform fluid, said expansible member being formed with apertures to direct streams of aeriform fluid into and through said mix and said filter screen.

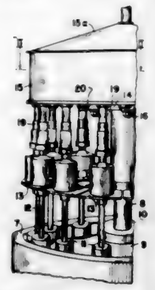
2,528,644

BOTTLE FILLING MACHINE

Joseph E. Dunn, Imperial, Pa., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application November 9, 1946, Serial No. 708,830

4 Claims. (Cl. 226—96)



1. A bottle filling machine including a base, a tank element rotatable on said base about a vertical axis and having a plurality of liquid delivery apertures formed therein, a table element rotatable coaxially with said tank element, bottle supporting trays carried by said table element, said trays being of sufficient extent circumferentially of said table element to support two bottles having their axes spaced circumferentially of said table element, said tank element being provided with a pair of liquid delivery apertures for each tray, bottle filling nozzles selectively operable in the tank element apertures, one of said elements being adjustable circumferentially of said vertical axis to position each of alternate filling nozzles in vertical alignment with a point centered circumferentially of a tray relative to the path of rotation of said table element, or to position adjacent filling nozzles in vertical alignment with two points on a tray equidistant from said centered point and along said path of rotation of said table element.

2,528,645

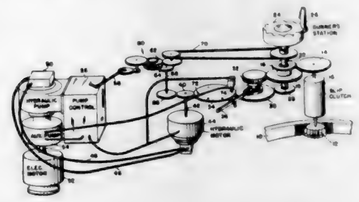
HYDRAULIC POWER TRANSMISSION APPARATUS

Evan A. Edwards, Cambridge, Mass., assignor to Massachusetts Institute of Technology, Cambridge, Mass.

Application June 22, 1945, Serial No. 600,949

4 Claims. (Cl. 60—53)

1. A driven member, a locking element adapted to engage said driven member and secure it against movement, spring means pressing said element toward locking engagement with said driven member, hydraulic pressure-responsive means for retracting said locking element against the pressure of said spring from locking engagement with said driven member, a hydraulic motor



operatively connected to said driven member, a variable displacement pump for supplying fluid under pressure to operate said motor, mechanism for controlling the displacement of said pump, an auxiliary pump supplying fluid under pressure to said pressure-responsive means, and common driving means for said pumps.

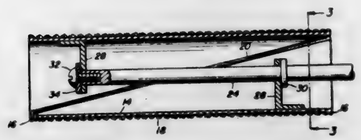
2,528,646

STIPPLING ROLLER

Charles F. Galen, Chesterfield, Mo.

Application January 26, 1948, Serial No. 4,369

1 Claim. (Cl. 41—5.5)



In a stippling roller, the combination of a single sheet of resilient material constituting a substantially cylindrical and diametrically expansible and contractible shell, adjacent edges of said sheet extending obliquely from one end of the shell to a diametrically opposite point at the remaining end of the latter, a tubular jacket removably positioned and frictionally retained on said shell, a handle having a shaft portion extending longitudinally in the shell, and a pair of bearing brackets secured at diametrically opposite points to opposite end portions of said shell, said brackets being diametrically opposed to said adjacent edges of said sheet in the respective end portions of said shell, and the shaft portion of said handle being rotatably journaled in said brackets independently of the expansion and contraction of the shell.

2,528,647

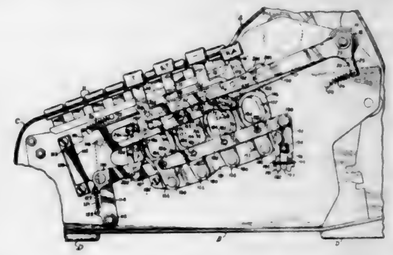
COMPUTING MACHINE

Max Garbell, Los Angeles, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Application May 15, 1945, Serial No. 593,845

3 Claims. (Cl. 235—130)

3. In a computing machine, the combination of a plurality of depressible feature control keys; locking means for said keys including a set of at least two uprightly disposed pivoted fingers under each of said keys; means interconnecting all of said sets of fingers for holding each of them in a normal, inoperative starting position, said interconnecting means including a first link loosely connected to one finger of each of said sets, a second link loosely connected to the remaining finger of each of said sets, and a spring powered equalizing device connected with each of said links effective to maintain each of said pivotally



mounted sets in normal, upright, starting position with an approximately equal resistance to displacement therefrom; and mounting means for said sets of fingers and said holding means whereby all of the elements of said locking means can be mounted as a single unit on said machine irrespective of the number of the sets of pivoted fingers employed.

2,528,648

SPORTSMAN'S SHELL BELT

Jesse A. Garver, Elgin, Ill.

Application November 15, 1946, Serial No. 710,182

2 Claims. (Cl. 224—22)

1. In a magazine belt comprising a belt strap and a tubular, flexible magazine for firearm shells secured to said strap to extend longitudinally thereof, said magazine having one end closed, and a compression spring in said magazine bearing against the closed end of the latter to eject shells from the end opposite the closed end of said magazine, the improvement which comprises a magazine of internal cross sectional area to receive the shells in end to end relationship, a shell loading and unloading means on the end opposite the closed end of said magazine, said means comprising an end wall at said opposite end of said magazine constituting an abutment for the shells to prevent the spring means from ejecting shells from the magazine, there being a shell passageway in said magazine tapering from said end wall and adjacent thereto for the ingress and egress of shells therethrough, and a sleeve on said magazine mounted for sliding movement thereon for covering and uncovering said passageway.

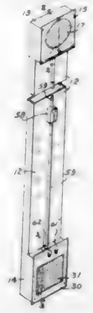
2,528,649
SEWAGE TREATMENT PROCESS
Albert L. Genter, Baltimore, Md., and Clyde C. Kennedy, San Francisco, Calif.
Application April 27, 1948, Serial No. 23,576
19 Claims. (Cl. 210—2)

1. In a sewage treatment system having partial dewatering of fresh sewage solids by plain sedimentation, diminution of the quantity of said solids by anaerobic digestion operating in separate primary and secondary stages followed by further dewatering of the digested solids in mechanical filters, the process of at least twice increasing and decreasing the ratio of water to sludge solids which comprises increasing said ratio by active primary digestion of the organic fraction of the fresh solids delivered to digestion, withdrawing liquid digestion products from the primary stage, further increasing said ratio by diluting said products with water purer than the biochemically fouled digester liquor contained in said products, reconcentration of the settleable solids in a special settling basin, decantation of the supernatant water therefrom, discarding of same, delivery of the concentrated solids to the secondary digestion stage, with-

drawing liquid digestion products from the secondary digestion stage and repeatedly treating the settleable solids in said products by dilution and sedimentation in at least two separate settling basins operating in series so that water purer than the liquor contained in said products is used for final dilution and produces a decantate in the final settling basin which is recirculated back for diluting the liquid products fed from the secondary digestion stage to the preceding settling basin of said series, delivery of all or any fraction of the decantate from this settling basin to the initial water dilution and solids sedimentation step between the primary and secondary stages of digestion, delivery of the decantate from this initial basin to the sewage stream, and delivery of the final, reconcentrated digester solids to mechanical filtration equipment for further dewatering.

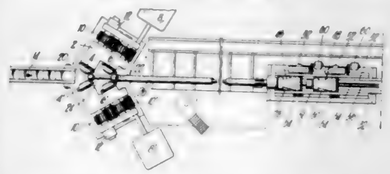
2,528,650
WALL TYPE ELECTRIC AIR HEATER AND CIRCULATOR
Frank A. Graham, Seattle, Wash.
Application August 18, 1949, Serial No. 111,029
7 Claims. (Cl. 219—39)

1. In an electric heater an air circulation duct adapted to be installed in a wall of a room and having an intake opening positioned near the ceiling of the room; an electric heater receptacle communicatively connected with the lower end portion of said duct, said heater receptacle having an air discharge opening in the front side thereof; fan means providing a flow of air downwardly through said duct; two spaced apart upright electric heating elements in said receptacle; two vertically spaced apart horizontal plates extending across said receptacle adjacent the upper and lower edges respectively of said air discharge opening and supporting said electric heating elements; and an upright back plate positioned back of said electric heating elements in spaced relation therefrom, said back plate having spaced apart horizontal slots therein and said back plate having inclined air deflecting members extending upwardly and rearwardly from



the lower edges of the respective slots adapted to direct downwardly moving air forwardly between said electric heating elements and outwardly through said front opening of said heater compartment.

2,528,651
TANDEM ROTARY EXPANDING MILL
Harry E. Gross, Lorain, Ohio, assignor to National Tube Company, a corporation of New Jersey
Application August 25, 1948, Serial No. 46,028
2 Claims. (Cl. 80—13)

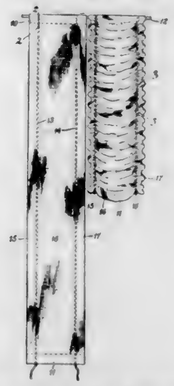


1. Apparatus for helically rolling tubular workpieces comprising forward and rearward pairs of cross rolls, telescoped mandrel bars constructed and arranged to hold mandrel plugs in metal-working position between each of said pairs of rolls and means for independently controlling and adjusting said mandrel bars to determine the spacing of the mandrel lugs from said cross rolls.

2,528,652
WASHABLE RUFFLED WINDOW CURTAIN
Helen F. Gundlach, Ebenezer, N. Y.
Application November 4, 1948, Serial No. 58,299
6 Claims. (Cl. 160—348)

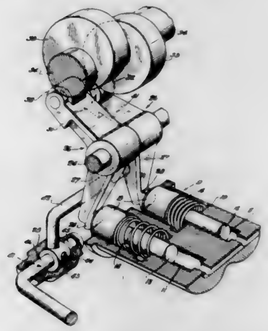
1. A washable window curtain which requires no ironing, comprising an elongated rectangular piece of finely woven light-weight fabric, a hem at one of the narrow ends of said fabric piece for receiving a curtain rod on which the curtain hangs, and a pair of unstretched elastic cords secured to said fabric piece adjacent the longitudinal edges thereof and fastened at opposite ends to both of said narrow ends of said fabric piece, the fabric being gathered on said elastic cords to provide a festooned central section between said elastic cords and a ruffled border along each of said longitudinal edges, said elastic cords being

adapted to be stretched to the full length of said fabric piece when in an ungathered condition to



permit said fabric piece to be stretched flat for drying of the curtain after being washed.

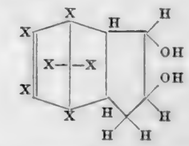
2,528,653
PUMP THROWOUT DEVICE
Milton T. Hedquist, Rock Island, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 13, 1945, Serial No. 610,529
1 Claim. (Cl. 103—23)



A power pump construction comprising a plurality of pistons in parallel side by side formation having a common discharge passage, each piston having an operating head, a plurality of coaxially mounted two-armed rock levers, one for each piston, each having a rock arm for actuating an operating head, a cam shaft rotatable about an axis parallel to the axis of said rock levers having a plurality of eccentric cams for actuating the other arms of said rock levers, respectively, mounted on said cam shaft, said eccentric cams being angularly displaced about the axis of said shaft to provide a difference in phase of the pistons, and common manually operable abutment means engageable with one arm of each lever and movable from a position in which it does not hold the lever arms out of engagement with the eccentric cams to a position in which it does hold the lever arms out of engagement with the eccentric cams comprising a rock bar engageable and disengageable with respect to an arm of each lever.

2,528,654
1,2 - DIHYDROXY - 4,5,6,7,8,8 - HEXAHALO - 4,7 - METHANO - 3a,4,7,7a - TETRAHYDRO-INDANE AND METHOD OF PREPARING SAME
Simon H. Herzfeld and Morton Kleiman, Chicago, Ill., assignors to Velsicol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 22, 1948, Serial No. 40,153
7 Claims. (Cl. 260—617)

1. A new composition of matter having the structural formula



wherein X is a halogen of the group consisting of chlorine, bromine and mixtures thereof.

2,528,655
1-ACYLOXY-4,7- METHANO -3a,4,7,7a-TETRAHYDRO-4,5,6,7,8,8 - HEXACHLOROINDENES AND METHOD OF PRODUCING THE SAME
Simon H. Herzfeld and Eugene P. Ordas, Chicago, Ill., assignors to Velsicol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 22, 1948, Serial No. 40,155
10 Claims. (Cl. 260—488)

1. As a new composition of matter, 1-acyloxy-4,7 - methano - 3a,4,7,7a - tetrahydro - 4,5,6,7,8,8-hexachloroindene wherein said acyloxy group contains less than 21 carbon atoms.

3. The method which comprises reacting 4,7-methano-3a,4,7,7a - tetrahydro - 4,5,6,7,8,8-hexachloroindene with bromine in the presence of a relatively inert solvent and an organic peroxide to form 1-bromo-4,7-methano-3a,4,7,7a-tetrahydro-4,5,6,7,8,8-hexachloroindene, and esterifying said bromo compound to produce 1-acyloxy-4,7 - methano - 3a,4,7,7a - tetrahydro - 4,5,6,7,8,8-hexachloroindene.

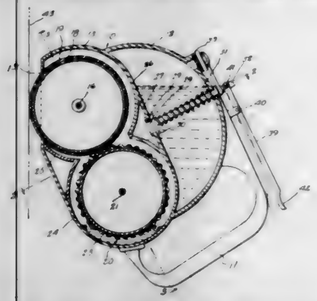
2,528,656
1-HYDROXY-4,7 -METHANO-3a,4,7,7a-TETRAHYDRO 4, 5, 6, 7, 8, 8 - HEXACHLOROINDENE AND METHOD OF PREPARING SAME
Simon H. Herzfeld and Eugene P. Ordas, Chicago, Ill., assignors to Velsicol Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 22, 1948, Serial No. 40,156
8 Claims. (Cl. 260—617)

1. As a new composition of matter, 1-hydroxy-4,7 - methano - 3a,4,7,7a - tetrahydro - 4,5,6,7,8,8-hexachloroindene.

2,528,657
PAINT APPLICATOR
Edward T. Hobe, Sr., Erie, Mich.
Application March 12, 1948, Serial No. 14,420
3 Claims. (Cl. 91—62.5)

1. A coating device comprising an elongated housing having a laterally projecting handle intermediate the ends, a partition extending longitudinally and transversely in said housing defining an upper coating fluid reservoir and a lower roller chamber, a pair of longitudinal rollers mounted in said housing on axes parallel to each

other and in rolling contact with each other, one of said rollers being an applicator having a portion of the surface thereof projecting outwardly through an opening provided in the housing wall on the reservoir side of said partition and in alignment with said reservoir and the other roller being a coating fluid feed roller and located in said chamber, a fluid trough extending longitudinally on the chamber side of said partition and projecting into the space between said rollers and formed with openings through which fluid can

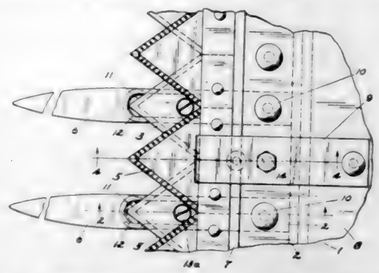


pass to the rollers, a valve seat opening in said partition establishing communication between said fluid reservoir and said trough, a spring closed valve mounted on said housing and normally closing said valve seat opening, said valve comprising a stem projecting outwardly of said housing, a lever pivoted on said housing and extending along said handle and pivotally connected to said valve stem for opening the valve to permit fluid to flow into said trough from said reservoir.

2,528,658
CULINARY FORK
Eduard Hrabal, Washington, D. C., assignor of thirty-five per cent to Rafael Dominguez, Washington, D. C.
Application May 10, 1948, Serial No. 26,059
1 Claim. (Cl. 30—137)

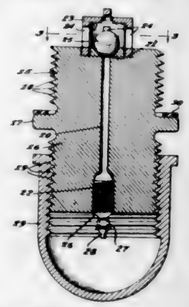
A culinary fork comprising a handle, a fork head carried by one end of said handle, transversely channel shaped pointed tines projecting from the fork head opposite the handle, each tine having an elongated longitudinally extending slot adjacent its pointed end, a spur pivotally supported in each slot, a flexible member coupled to a spur and extending longitudinally through its respective channel shaped tine for moving its respective spur about its pivot, a guide loop on the handle, a flexible member coupled to the first mentioned flexible members and slidable through the guide loop for simultaneously moving the spurs about their pivots.

2,528,659
CUTTER BAR FOR HARVESTERS
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 23, 1946, Serial No. 692,422
9 Claims. (Cl. 56—298)



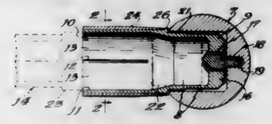
1. A cutter-bar construction comprising a cutter-bar supporting rail, a fixed ledger plate bar, securing means extending through said supporting rail and ledger plate bar for securing them together, a plurality of ledger plate sections secured to said fixed bar, a knife bar reciprocably mounted with respect to said fixed bar, and a plurality of knife sections secured to said reciprocable bar and co-operating with said fixed ledger plate sections.

2,528,660
SINK TRAP PLUG
Thomas L. Lavere, Bethel, Vt.
Application June 6, 1947, Serial No. 753,084
2 Claims. (Cl. 182—7)



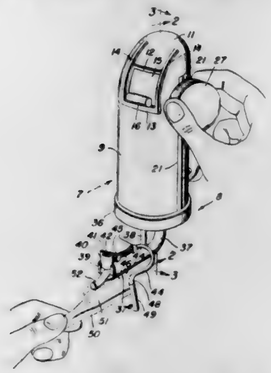
1. A plumbing fixture comprising a trap having a bottom wall provided with an opening therethrough and screw threads surrounding said opening, an externally threaded screw plug threaded at one end into said opening and having a bore extending longitudinally therethrough, a ball check valve carried by said plug on the end thereof within said trap and operative to preclude flow of fluid from said trap through the bore of said plug, said plug having a counterbore in the end thereof disposed outwardly of said trap and screw threads surrounding said counterbore, and externally screw threaded, pneumatic check valve threaded into said counterbore in position to admit compressed air through said plug bore and said check valves into said trap and to retain air under pressure in said trap, said pneumatic check valve projecting at its outer end outwardly of the outer end of said plug to receive a hose coupling, and a hollow cap having internal screw threads threadable onto said plug to cover the outer end of the latter and the outer end of said pneumatic check valve.

2,528,661
DIALING TOOL
Anthony P. Lynn, Elmhurst, and Gary A. Lynn, River Grove, Ill.
Application September 3, 1947, Serial No. 771,886
7 Claims. (Cl. 179—90)



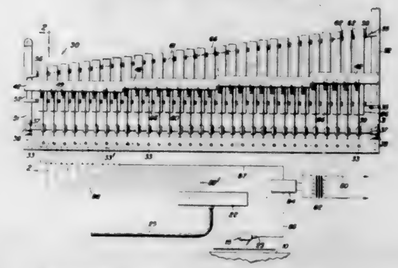
1. In a dialing tool, a substantially cylindrical hollow sleeve-shaped adapter formed with a wall at its inner end and adapted to embrace the outer surface of a handle, a knob provided with an enlarged cylindrical bore and a coaxial reduced diameter bore opening into said enlarged bore and terminating short of the outer surface of said knob, the inner end of said adapter being disposed within the enlarged bore of said knob and embraced by said knob, and means secured in said reduced bore to engage the inner wall of said adapter and prevent axial displacement from its position within said enlarged bore.

2,528,662
TOOTH PASTE DISPENSER HAVING A CUT-OFF VALVE ACTUATED BY A TOOTH-BRUSH
John M. Miller, Summerdale, Ala.
Application June 30, 1948, Serial No. 36,189
2 Claims. (Cl. 222—127)



1. In a tooth paste holder and dispenser of the class described, a holding casing having expressing means therein, an L-shaped discharge neck carried by the lower end of the casing, said neck terminating in keepers, a valve plate slidable in said keepers, a rocker shaft operatively connected at one end with said valve plate for lifting it, means for rockably mounting the rocker shaft on said neck, a return spring for said rocker shaft and valve plate, said rocker shaft being provided at one end with a laterally directed curvate lever partially surrounding the neck and terminating in an actuating member, said actuating member being provided with a swivelly mounted brush accommodating roller.

2,528,663
STRING OPERATED MAGNETOELECTRIC MUSICAL INSTRUMENT
Thomas W. Mitchell, St. Louis, Mo., assignor of forty-nine per cent to R. C. Marrs, St. Louis, Mo.
Application January 31, 1949, Serial No. 73,683
7 Claims. (Cl. 84—1.16)

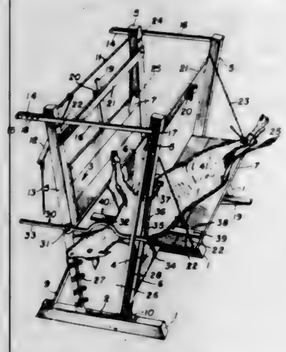


1. A magneto-electric musical instrument comprising a portable string instrument, having a conventional instrument body and neck, a plurality of conductive strings stretched over said body and neck, contacts arranged in longitudinal and transverse series along said neck, the contacts forming a longitudinal series being arranged on the neck along a single string of the instrument, each contact of the series corresponding to the portion of the neck against which a string is pressed to produce a definite tone, the transverse series, arranged along a transverse line, corresponding to tones produced on different strings, a pick provided with a conductive picking member, for picking said strings, an assembly of stationary vibratory sound producing elements, arranged at a distance from the string instrument, each vibratory sound producing element being provided with a striking vibrator for producing sound vibrations, electro-magnetic means actuating each of said striking vibrators, a source of current, a circuit connected with each of said neck contacts, a circuit connected with the pick, each of said circuits comprising conductors leading from the string instrument to the said assembly of vibratory sound producing elements, and each electro-magnetic means being included in the circuit of one of the neck contacts and in the circuit of the pick, the tone produced by a vibratory sound producing element corresponding to the tone produced by the string, when pressed against the contact and picked by the player.

2,528,664
CATTLE CHUTE
Olin Niece, Seneca, N. Mex.
Application April 8, 1947, Serial No. 740,051
5 Claims. (Cl. 119—99)

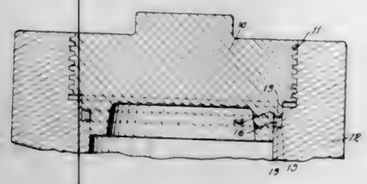
1. In a cattle chute for confining a calf for operation thereon when pulled off its feet onto its side, a side wall structure for the chute in-

cluding an upper operating table section hinged thereto for swinging downwardly and upwardly to support the calf on its side and eject the same off said section back into the chute, respectively, means pivotally mounting said wall structure at its bottom for outward swinging to widen the chute for facilitating escape of the calf out of the chute, an end gate hinged to the chute for swinging open by the calf about a vertical axis to permit the calf to escape and having a top edge substantially level with said section in the down swung position of said section, a neck yoke



member pivoted on the chute for coaction with said edge of the gate when closed to confine the neck of the calf at the level of the down swung section whereby the calf may be pulled off its feet onto said section with its neck confined, means to swing said wall structure outwardly, locking means for the gate unlocked by swinging of said wall structure outwardly, and locking means for holding said member in coacting relation to the upper edge of the gate unlocked by outward swinging of said wall structure simultaneously with unlocking of said first named locking means.

2,528,665
GASKET SEAL
Victor W. Peterson and Otto J. Maha, Chicago, Ill., assignors to Hannifin Corporation, a corporation of Illinois
Application June 17, 1946, Serial No. 677,302
2 Claims. (Cl. 309—2)

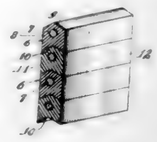


1. A sealing construction for retaining fluids under high pressures of the order of 5000 pounds per square inch in a cylinder comprising in combination a pair of gasket bearing surfaces, a metal gasket of such hardness as to be capable of resisting extrusion under the maximum fluid pressure in said cylinder, said gasket being at least as hard as annealed copper, and joint coupling means for drawing said surfaces together but said means being incapable alone of exerting sufficient pressures against the gasket and bearing surfaces to prevent leakage along superficial scratches and inequalities in such surfaces, said gasket bearing surfaces each having projecting therefrom in registry with the gasket surfaces a continuous bead integral therewith and of such small cross section as to be capable under the force exerted by said coupling means of indenting said gasket locally sufficiently to seal said scratches and inequalities without substantially spreading said gasket radially, said gasket being exposed to pressure in the cylinder so that said pressure is exerted radially on the gasket to improve the seal of the indented surfaces of said gasket against said beads.

2,528,666
SPATTER SHIELD FOR C-CLAMPS
Oliver F. Potts, Kenmore, N. Y., assignor to J. H. Williams & Company, Buffalo, N. Y.
Application July 23, 1946, Serial No. 685,747
2 Claims. (Cl. 113—99)

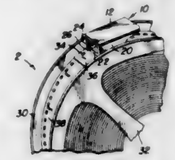
1. A spatter guard, adapted to be rotatably mounted on the screw element of a C-clamp, comprising a U-shaped sheet metal shell having sides straight from end to end and adapted to extend along said screw element at opposite sides thereof, said sides having an integral flange at each end, the flanges on each end of the shell extending toward each other and being separated from each other whereby the sides of the shell may spring apart to allow the insertion of the screw element therein, and said flanges having concave end edges adapted to bear on the periphery of the unthreaded end portions of the screw element at diametrically opposite sides thereof, so as to be rotatably mounted thereon.

2,528,667
LOOP ANTENNA
Carl A. Raabe, Chicago, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application January 19, 1946, Serial No. 642,258
2 Claims. (Cl. 250—33.67)



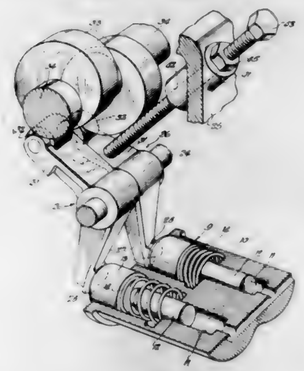
1. In a loop antenna, an electric conductor, insulation completely enclosing said conductor throughout its length to form an insulated cable, an elongated continuous projection formed upon one side of said insulation substantially coextensive with the length of the cable, the insulation on the opposite side of said conductor being provided with an elongated continuous indentation substantially coextensive with the length of said cable, said cable being arranged in substantially spiral form comprising a plurality of convolutions and with adjacent convolutions disposed in interlocked contact with each other, the projection of one convolution in interengaging registry with the indentation of the adjacent convolution.

2,528,668
FILM CLIP
Elmer E. Schenkel, Casper, Wyo.
Application April 18, 1949, Serial No. 88,135
5 Claims. (Cl. 206—53)



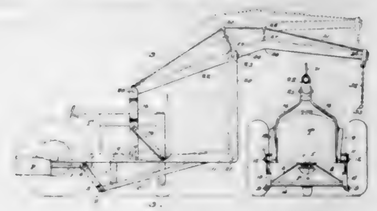
1. A film clip comprising a substantially L-shaped member of resilient material having first and second leg portions, an abutment integrally formed with and underlying the first leg portion of said member, said abutment including an arm spaced from the second leg portion of said member, said arm and said second leg portion adapted to yieldingly grip a flange of a film reel, and means carried by said abutment for positioning in a selected perforation in a film.

2,528,669
PUMP THROWOUT DEVICE
Otto R. Schoenrock, Oak Park, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 13, 1945, Serial No. 610,515
6 Claims. (Cl. 103—23)



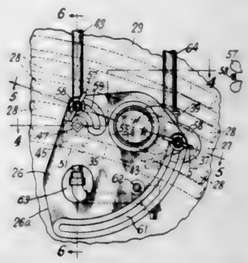
1. A power pump construction comprising a plurality of pistons in parallel side by side formation having a common discharge passage, each piston having an operating head, a plurality of coaxially mounted two-armed rock levers, one for each piston, each having a rock arm for actuating an operating head, a cam shaft rotatable about an axis parallel to the axis of said rock levers having a plurality of eccentric cams for actuating the other arms of said rock levers, respectively, mounted on said cam shaft, said eccentric cams being angularly displaced about the axis of said shaft to provide a difference in phase of the pistons, and common manually operable abutment means engageable with one arm of each lever and movable from a position in which it does not hold the lever arms out of engagement with the eccentric cams to a position in which it does hold the lever arms out of engagement with the eccentric cams.

2,528,670
HAY HOIST BOOM
Harvey E. Sebesta, Wilson, Kans.
Application February 27, 1947, Serial No. 731,342
1 Claim. (Cl. 254—139.1)



The combination, with tractor-mounted loader arms connected pivotally at their rear ends to the tractor for swinging in a vertical plane, of a hoist attachment mounted on said arms and including a pair of supports each shaped as an inverted U, one of said supports rigidly connected to the loader arms adjacent said pivotal connection, and the other support pivotally connected to the front ends of the loader arm, a boom pivotally connected at its rear end to the first-named support and pivotally connected intermediate its ends to the second-named support, and load-engaging means suspended from the front end of the boom.

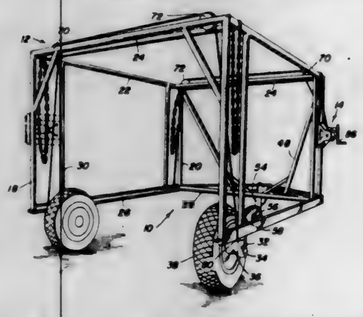
2,528,671
FURNACE COMBUSTION CHAMBER CLOSURE WITH FLUID JET GAS ESCAPE PREVENTION MEANS
Eugene H. Selnick, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application September 21, 1945, Serial No. 617,777
8 Claims. (Cl. 110—179)



1. In combination with a wall defining a chamber normally containing a gaseous fluid under a superatmospheric pressure and having a chamber wall opening therein, closure means for said wall opening comprising a door at the outer end of said wall opening, a pivot support for said door arranged for door movement about said pivot in the plane of said door, said door having a window and an access opening therein in arcuately spaced relation and adapted to register with said wall opening in predetermined positions of said door, means for discharging a high pressure fluid into said wall opening, a valve controlling a supply of high pressure fluid to said last named means, door operating means mounted for movement in opposite directions to move said door to said predetermined positions, means operatively associated with said door and said valve and movable in one direction to open said valve during movement of said door toward said

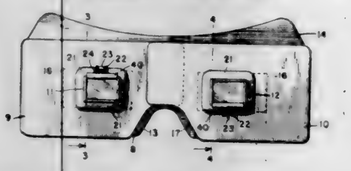
access opening registering position and in the opposite direction to close said valve during movement of said door toward said window registering position, and means arranged at the sides of said opening at diametrically opposed locations spaced from said pivot support for maintaining a seal between said door and said opening in at least one of said positions.

2,528,672
ALL PURPOSE VEHICLE CARRIER AND LOADER
James L. Sullivan, Clinton, Okla.
Application May 17, 1948, Serial No. 27,544
2 Claims. (Cl. 214—75)



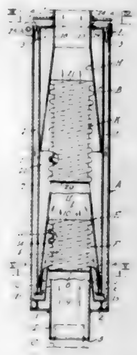
1. A vehicle carrier and loader comprising a substantially rectangular upper tubular frame, a substantially U-shaped lower frame, spaced tubular vertically extending rods securing said frames together, hoist means carried by said upper frame for engaging a vehicle to be transported, wheels having stub axles and means for simultaneously removably pivoting said stub axles adjacent the free ends of said U-shaped lower frame and for bracing said frames, said means including vertically extending pipes secured at their upper ends to said upper frame, and enlarged shoulders at the lower ends of said pipes for seating the legs of said U-shaped lower frame, said shoulders including transverse bores for journaling said stub axles.

2,528,673
STEREOSCOPIC VIEWING DEVICE
Barney L. Taylor, Garrett Park, Md.
Application September 24, 1946, Serial No. 698,899
4 Claims. (Cl. 88—29)



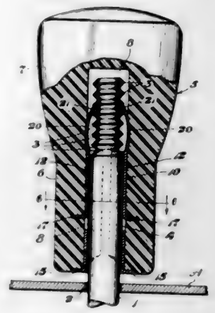
1. In a stereoscopic viewing device, a support, a pair of prism holding elements projecting horizontally from the support, a universal joint connection between the lower portion of one of said elements and the support, a Dove reversion prism having a reflecting surface at its lower face carried in said element, a Dove reversion prism having a reflecting surface at its upper face carried in said other element, and a universal joint connection between the upper portion of said last-mentioned element and said support.

2,528,674
MUFFLER WITH INNER FLEXIBLE CORRUGATED CONDUIT
Joseph J. Thomas, Los Angeles, Calif.
Application September 7, 1948, Serial No. 47,969
5 Claims. (Cl. 181—41)



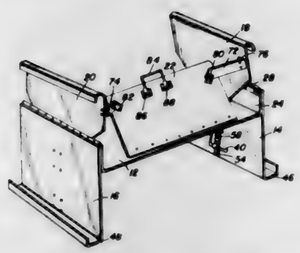
4. In a muffler of the character described; a shell having an inlet pipe leading thereinto; a funnel-shaped injection cone disposed in the shell and provided with an outlet end; and a corrugated tube having one end thereof abutted against and connected to the inlet pipe; the inlet pipe and tube providing a continuous conduit for exhaust gases; and the other end of the tube bearing against the interior surface of the injection cone, but unattached thereto, whereby the tube can expand and contract without breaking its connection with the inlet pipe.

2,528,675
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 20, 1947, Serial No. 723,088
4 Claims. (Cl. 287—53)



1. In a connection, a rod or shaft having a threaded or serrated portion defining a series of transverse shoulders thereon, a part having a bore and a fastener in said bore comprising a channel-shaped sheet metal body receiving said rod in frictional bearing engagement therewith, an outwardly extending flange on one end of said body engaging said part adjacent the bore therein and preventing inward movement of said fastener in said bore, an outwardly projecting lug on said body anchoring the fastener in said bore, and a resilient tongue carried by said body engaging a transverse shoulder on said rod in binding relation therewith.

2,528,676
FOLDING CHAIR
Harry J. Walters, Auburn, Wash.
Application January 21, 1948, Serial No. 3,579
5 Claims. (Cl. 155—148)

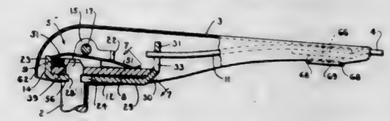


1. A folding chair including a seat, a pair of downwardly depending legs, hinge means rotatably securing said legs to said seat, a back, means rotatably securing said back to said seat, a pair of oppositely disposed arms and hinge means securing said back to said arms and said arms to said seat, said seat including a pair of upwardly extending diametrically opposite flanges, said first named hinge means being mounted on said flanges and secured to said legs, so that on rotation, said flanges act as a brace and a stop for said legs.

2,528,677
CHILD'S SLEEPING GARMENT
Roy W. Wilson, Oak Park, Ill.
Application December 23, 1946, Serial No. 717,848
2 Claims. (Cl. 2—83)

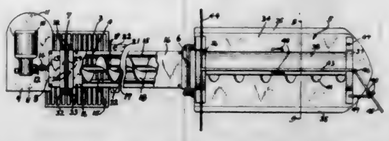
1. A blanket coverall type of garment for use by a child over a suit of pajamas, as a substitute for a blanket, or blankets, said coverall garment being loose fitting and made of warmth giving blanket material designed to be worn over the aforesaid pajamas and comprising right and left half-garment sections, each providing body, arm, and separate full length leg-covering portions, said right and left half-garment sections being joined together at the front only of the body-covering portions from the waist upwardly and defining therebetween a neck opening at the top that is closed in the front but open at the back, the body portions having a rear opening longitudinally from the neck down to the crotch and through the crotch and up the front partway to the neck, and a two-way zipper comprising two strips carrying meshing elements extending the full length of the aforesaid rear opening, crotch opening and front opening, and two sliders disposed on said strips each cooperating with sections of both of said meshing elements, said sliders being both operable in either direction, the one being operable by either the child or the parent to open only the lower front portion or more of the lower portion by operation of said slider downwardly in front, the other slider being operable only by the parent from the back of the neck downwardly whereby the child cannot open enough of the outer garment to suffer exposure or gain access to the closures on the pajamas to open the same.

2,528,678
WINDSHIELD CLEANER
John W. Anderson, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application November 1, 1945, Serial No. 625,972
18 Claims. (Cl. 287—53)



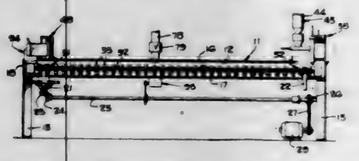
1. Means connectable to driving means for supporting windshield cleaner arm means, said connectable means including a part adapted to engage the driving means for movement therewith and a member movably mounted with respect to said part and provided with cooperating means, and said part being provided with means engageable with said cooperating means whereby to selectively predetermine the relative rotative position of said member with respect to said part when such part is in driving connection with the driving means.

2,528,679
SPIRAL BLADE CONVEYER
Laurence O. Ballard and Angelus Brandt, Spokane, Wash.
Application November 18, 1946, Serial No. 710,506
6 Claims. (Cl. 198—213)



1. A conveyor for delivering loose running material to an outlet of a storage chamber comprising front and rear sections having casings detachably coupled in end to end relation to each other, screw conveyors in said casings having ends detachably connected with each other, the front casing having an outlet opening in its bottom, a cradle for mounting the front casing in position to dispose its outlet over the outlet of the storage chamber, a head detachably mounted at the front end of the casing of the front section and having therein a rotatable drive shaft connected with the screw conveyor of the front section and projecting forwardly from the head, a base plate, and a motor mounted upon the base plate and having its shaft connected with the protruding front end of the shaft in said head.

2,528,680
MECHANISM FOR FILLING, VACUUMIZING, AND SEALING CONTAINERS
Samuel H. Berch, Beverly Hills, Calif., assignor to The Flexible Vacuum Container Corporation, Los Angeles, Calif., a corporation of Nevada
Application August 7, 1944, Serial No. 548,465
2 Claims. (Cl. 226—51)



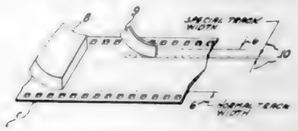
1. A vacuum packaging machine comprising, a vacuum chamber, an endless conveyor chain therein, sprockets around which said chain is led, means intermittently driving said chain, a closure for said vacuum chamber through which packages may be introduced into said chamber and withdrawn therefrom, a plurality of package-receiving molds carried by said chain and adapted to receive open packages and the contents with which they are filled, means for intermittently opening said closure for the vacuum chamber to permit a plurality of filled packages to be placed within a series of package molds, means acting to fill said packages while said vacuum chamber is open, package sealing means within said vacuum chamber and adapted to close and seal the mouths of said packages while they are under vacuum action, means for connecting said vacuum chamber with suction apparatus, a valve for establishing and interrupting said connection, and synchronous drive means for the conveyor chain, the bag filling means, and the bag sealing means, whereby a package may be filled, vacuumized and sealed in a continuous sequence of operations.

2,528,681
OPTICAL INDICATOR
Willem Lodewijk Berssenbrugge, The Hague, Netherlands
Application March 1, 1948, Serial No. 12,302
In the Netherlands March 5, 1947
6 Claims. (Cl. 88—24)

1. A stereoscopic projection pointer comprising a light source, a condenser lens and an objective, two filtering object-carriers mounted between said condenser lens and said objective and at the conjugate focus of said objective, identical non-filtering figures on each said object carrier, one said object carrier being movable with respect to the other, whereby said figures can be stereoscopically projected with complementary filtered light by moving one said object-carrier with respect to the other.

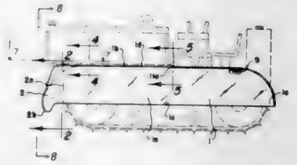
2,528,682
MAGNETIC HEAD TESTING SYSTEM
Dorothy L. Blaney, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application October 29, 1948, Serial No. 57,353
5 Claims. (Cl. 179—100.2)

3. A test system for determining the uniformity of contact lengthwise of the gap of a magnetic head and the magnetic record medium passing thereover, comprising a magnetic head to be tested, said head having a standard gap length, a magnetic head having a gap length shorter than the length of said gap of said head to be tested, and adapted to make firm contact with said magnetic record medium at all times said medium



passes thereover, means for utilizing one of said heads to provide a magnetic record on said medium reproducible in narrow portions transversely disposed in the record area covered by the gap of the head to be tested, and means for measuring the amplitude of said record being reproduced.

2,528,683
TRACTOR FENDER
John M. Bowman and Paul D. Bradfield, Santa Ana, Calif.
Application March 29, 1948, Serial No. 17,775
12 Claims. (Cl. 280—152)



8. In a tractor fender of the class described, the combination of a fender body having curved ends and top and side plate portions, the lower edge of said slide plate portion having a continuous loop portion, a bead rod in said loop portion, a hinge sleeve pivotally mounted on said bead rod near each opposite end of said fender body, spacers at opposite ends of each of said sleeves, fixed to the material of said fender body, an arm in connection with each of said sleeves, a bracket at each end of said fender body adapted to be fixed to a tractor, each of said arms vertically adjustably connected with each of said brackets.

2,528,684
SYNCHRONIZER
Morton S. Brockman, Cleveland, Ohio
Application July 8, 1946, Serial No. 681,794
8 Claims. (Cl. 84—470)

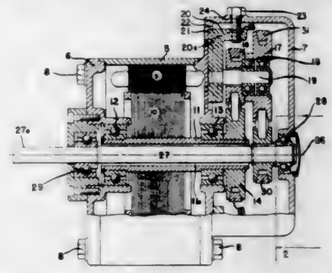
1. A theme synchronizing and translating device adaptable for use with correlated visible and audible records of a musical composition, comprising a support member, a chart mounted on the support member and having indicia correlated with the themes of the audible record, the said chart having guide lines thereon leading from the said indicia to the margin thereof, a book mounted on the support member in a predetermined position with respect to the chart and having a series of visible translations of the said themes, the said book having guide lines thereon leading from the margin thereof to the said translations, the said chart and book guide lines being in registration and appearing continuous, and a chronometer mounted on the support member and having a movable pointer directly indexing the chart indicia and simultaneously indirectly indexing the book translation through the registered guide lines.

2,528,685
SELF-LOCKING WIRE STAPLE
Leonard Ardelle Brown, Vona, Colo.
Application October 25, 1948, Serial No. 56,413
1 Claim. (Cl. 85—49)

A staple formed of stiff wire and having transversely spaced parallel legs and a bridge connecting said legs, the free ends of said legs being formed with barbs projecting laterally from said legs in an outward direction and disposed in a plane at substantially an angle of 45° to the plane of the legs, said barbs each having a flat shoulder at its upper end and a flat outer face extending downwardly from the outer end of the shoulder and terminating at the inner side of the leg, said barbs having flat side faces extending downwardly from opposite side edges of its shoulder and extending the full thickness of the leg in inwardly converging relation to each other and intersecting at the inner side of the leg, the side faces also converging downwardly and intersecting at the lower end of the leg, and the outer surfaces of said barbs being tapered downwardly and sloping inwardly of the legs with their lower ends intersecting the lower ends of the side faces and thereby forming sharp points for the lower ends of the legs.

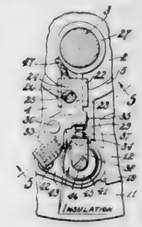
2,528,686
MOTOR DRIVE UNIT
Steffen S. Brown, Dayton, Ohio, assignor to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio
Application July 30, 1948, Serial No. 41,450
2 Claims. (Cl. 74—219)

1. A motor drive unit having a housing comprising end walls and an intermediate wall defining two compartments, one of said compartments forming a motor portion and the other a change speed transmission portion, a stator in said motor portion, a rotor associated with said stator, a hollow drive shaft supporting said rotor and journalled in one of the end walls and the intermediate wall, an output shaft passing loosely through the center of said hollow shaft and journalled in the end walls whereby said shafts are independently journalled in said housing so no radial or axial loads can be transmitted therebetween, means for driving said transmission from said hollow shaft and means for driving said output shaft from said transmission, said transmission including a belt tightening



member adjustably mounted on said intermediate wall.

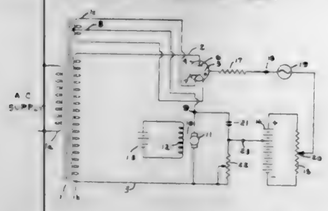
2,528,687
ARRANGEMENT OF STATOR - PLATE-MOUNTED ELEMENTS OF A FLYWHEEL MAGNETO
Allen L. Brownlee and Terrence G. Louis, West Springfield, Mass., assignors to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application December 8, 1949, Serial No. 131,732
5 Claims. (Cl. 171—209)



1. In combination, a stator plate for a flywheel magneto, said plate having a hollow hub with an opening and being adapted to be mounted on that hub of an engine crankcase through and beyond which the engine crankshaft extends, a pair of coil-bearing core structures fixed to said plate on opposite sides of the axis of the first-named hub, said core structures being mounted in opposed relation with their inner walls in adjacent relation but separated by generally radial gaps, said inner walls in a radial location near the opening in the first-named hub being separated by a distance substantially less than the diameter of said opening and from said location diverging outwardly to their outer ends which are separated by a substantially greater distance, said plate having a portion upstanding therefrom into the more narrow portion of one of said gaps and having a slot therein of rectangular cross section disposed radially of the plate, a plunger of similar cross section slidably mounted in said slot, a plate secured to said portion and confining the plunger in its slot, said confining plate having a downturned ear bearing a breaker point and having a part offset laterally to one side of said ear and extending into the wider portion of said one gap, a stud fixed to and depending from said part, a U-shaped breaker lever pivotally mounted at its mid portion on said stud with its two arms straddling said ear, a breaker point on one of said arms confronting and engageable with the first-named breaker point, the other of said arms

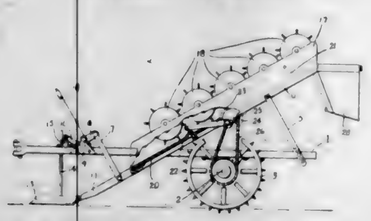
being engageable by said plunger to separate the breaker points, and a spring acting on the lever to move it to engage the breaker points.

2,528,688
THYRATRON CONTROL SYSTEM
Pao Hsiung Chin, Cranford, N. J., and Berthold A. Knauth, Bolton, N. Y., assignors, by direct and mesne assignments, to The Motorspeed Corporation, New York, N. Y.
Application March 1, 1948, Serial No. 12,321
3 Claims. (Cl. 318—331)



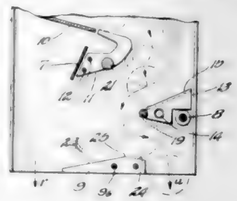
1. A thyratron control circuit for direct current motors comprising a thyratron having an anode, a grid and a cathode, a motor having an armature connected in series with said thyratron across an alternating current supply, a capacitor having one terminal thereof connected to the side of said armature connected to said cathode, a resistor having one terminal thereof connected to the other side of said armature, the other terminal of said resistor being connected to the other terminal of said capacitor and to the grid of said thyratron, said resistor and said capacitor having values such that the speed of said armature may be made to remain substantially at a pre-set value while the load on said motor is varied from no-load to substantially full load.

2,528,689
PEANUT DIGGER
Hubert E. Flynt, Greenway, Ark.
Application August 10, 1945, Serial No. 609,966
4 Claims. (Cl. 55—51)



1. In a peanut harvesting machine including a main frame having a traction hitch structure at one end thereof, an axle and a pair of wheels supporting said main frame, a sub-frame inclined forwardly and downwardly relative to said main frame, adjustably mounted bars pivotally supporting the rear end portion of said sub-frame above the rear end portion of said main frame, and plow means carried on the forward end of said sub-frame, means carried by said frame for elevating plants from said plow means and removing adhering earth therefrom comprising a plurality of raking drums journaled on said sub-frame operative to elevate peanut plants from said plow means to the rear end of said sub-frame, chain and sprocket means drivingly connecting said raking drums with the main frame supporting wheels, a sifter screen carried by said sub-frame below said raking drums, and eccentric means driven by said main frame supporting wheels and operatively connected with said sifter screen to impart oscillating movement thereto to remove earth from peanut plants moved along said sub-frame by said raking drums.

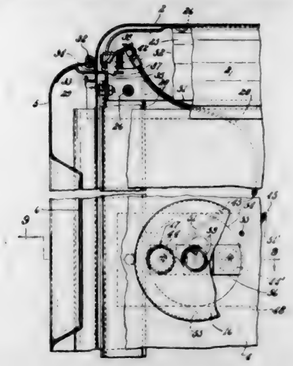
2,528,690
PARAMAGNETIC COIN SEPARATOR
Robert M. Foushee, St. Louis, Mo., assignor to National Slug Rejectors, Inc., St. Louis, Mo., a corporation of Missouri
Application April 26, 1947, Serial No. 744,217
3 Claims. (Cl. 194—101)



1. A coin separator comprising a frame, means in said frame sequentially forming an entrance runway, a testing passageway and an acceptance passageway, a pole piece having an arcuate outer surface forming a descending continuation of said entrance runway, a permanent magnet positioned in said frame adjacent to said pole piece for magnetizing said pole piece, an impact absorber means loosely secured to said frame in said testing passageway, the upper edge of said means forming a sloping runway, said impact absorber being located below said permanent magnet, the space between said magnet and said impact absorber forming a gravitational drop portion of said testing passageway whereby both an acceptable paramagnetic coin, when leaving said permanent magnet descend in a free trajectory path into engagement with the lower sloping edge of said impact absorber and a diamagnetic coin when leaving said permanent magnet will descend in a free trajectory path into engagement with the upper sloping edge of said impact absorber a second permanent magnet having an arcuate outer surface positioned in said frame in proximity to the lower end of said upper sloping edge of said absorber means, whereby an acceptable paramagnetic coin descending on said entrance runway will roll around said outer surface of said pole piece a predetermined distance and descend in a free vertical trajectory to the upper edge of said absorber means and then roll along said upper edge and partially around said arcuate surface of said second magnet sufficiently far to fall into said acceptance passageway.

2,528,691
HOUSING AND LOCKING MEANS THEREFOR
Herman O. Grimmeisen, West Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application June 6, 1947, Serial No. 752,964
2 Claims. (Cl. 312—215)

1. In combination, a housing including a base, a cap and panels enclosing the space between the base and cap, one of said panels being removable and being located between two other panels which are fixed, a latch for holding the removable panel against removal, one of the fixed panels having an opening, operating connections including a push button located closely adjacent to and accessible through said opening for releasing said latch; a lock mounted on said one of fixed panels adjacent said opening and having a cylinder



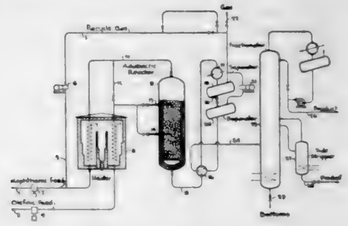
rotatable by a key when inserted in the lock; and a shutter movable by said cylinder from a position, in which it lies between said button and said opening and prevents access to the button, to a position, in which it uncovers the opening and enables one to reach through the opening to push said button and cause the release of said latch.

2,528,692
DISPENSING CONTAINER FOR ACETYLENE
Martin H. Heeren, Chicago, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 22, 1945, Serial No. 584,262
1 Claim. (Cl. 206—0.7)

Dispensing container for acetylene gas under pressure comprising a cylinder or receptacle capable of being closed and of withstanding internal pressure, a porous, absorbent mass filling said cylinder or receptacle, a substantial quantity of 2,4 pentanedione absorbed in said porous mass, and acetylene gas dissolved in said 2,4 pentanedione to be released therefrom for delivery from said cylinder or receptacle when the latter is opened.

2,528,693
PRODUCTION OF AROMATIC HYDROCARBONS BY DEHYDROGENATION OF NAPHTHENES
Ava J. Johnson, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Continuation of application Serial No. 457,682, September 8, 1942. This application March 4, 1947, Serial No. 732,373
13 Claims. (Cl. 260—668)

1. In a process for the production of toluene by dehydrogenation of a naphthenic straight run petroleum fraction, the improvement which comprises separating a fraction of naphthenic straight run gasoline containing hydroaromatic naphthenes and non-hydroaromatic naphthenes and boiling predominantly within 195° F. and 250° F., adding to said straight run naphthenic gasoline fraction an olefinic cracked gasoline fraction in such an amount that the mol ratio of olefins to hydroaromatic naphthene in the mixture is between about 0.5:1 and 2:1, and effecting the dehydrogenation of said mixture substantially continuously with a catalyst consisting essentially of a major mol amount of a sulfide of a metal of the iron group and a minor mol amount of tungsten sulfide in the presence

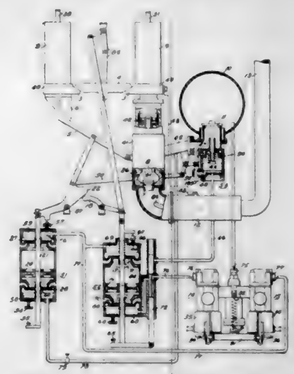


of at least 3 mols per mol of hydrocarbon feed of gas containing at least 80% hydrogen under conditions chosen within the following limits,

Temperature	°F.	797–977
Pressure	atmospheres	5–75
Liquid hourly space velocity		0.3–5

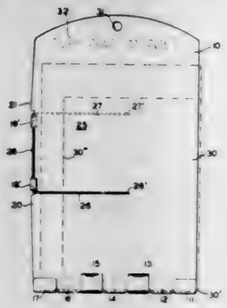
thereby to obtain a substantially saturated product rich in toluene.

2,528,694
CIRCUIT BREAKER CONTROL SYSTEM AND APPARATUS
Arthur C. Kelle, Stoughton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 21, 1944, Serial No. 545,929
6 Claims. (Cl. 200—82)



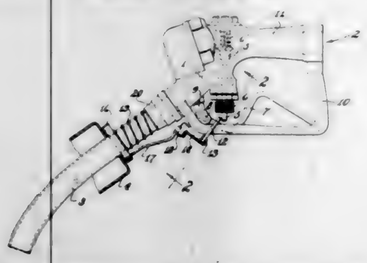
1. In combination, a circuit breaker provided with fixed and movable contacts cooperable to make and break an electric circuit, a source of gas under pressure, means comprising a valve for controlling the supply of gas under pressure from said source to operate said movable contact to open position, means responsive to said electric circuit for operating said valve, means for manually operating said valve independently of said electric circuit, and means operably responsive to a predetermined minimum gas pressure at said source for preventing operation of said valve by said manually operable means.

2,528,695
SCORE CARD HOLDER
Thomas King, Youngstown, Ohio
Application April 24, 1947, Serial No. 743,713
1 Claim. (Cl. 281—44)



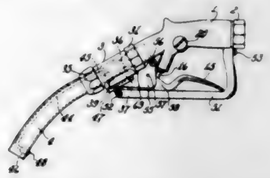
In a card-supporting device of a size suitable for carrying in a garment pocket, the combination of a flat plate-like base member, integral card-supporting tabs formed along one edge of said member and disposed to retain a card against both major surfaces of said base member, spring-retaining eyes formed along another edge of said base member and integral therewith, a U-shaped spring secured in said eyes and having its arms overlying both major surfaces of said base member, and guard members formed on said another edge outwardly of said eyes.

2,528,696
LATCHING MEANS FOR HOSE NOZZLE VALVES
Joseph A. Logan, Hadley, and Eugene V. Lavallee, South Hadley Falls, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application September 7, 1949, Serial No. 114,326
4 Claims. (Cl. 226—93)



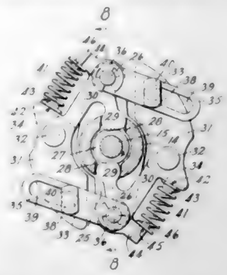
1. The combination in a hose nozzle having a passage therethrough terminating in a delivery spout adapted for insertion in the filling opening of a tank, a valve for controlling the flow through said passage, and manually operable means for moving the valve, of a latch preventing opening of the valve by said means, a member movably mounted on said spout and adapted to be engaged and moved by abutment with the wall of the filling opening when the delivery spout is inserted in such opening, and connections between said latch and member operable by such movement of said member to release the latch and enable opening of the valve by said means.

2,528,697
HOSE NOZZLE OF THE AUTOMATIC SHUTOFF TYPE
Joseph A. Logan, Hadley, and Eugene V. Lavallee, South Hadley, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application April 8, 1948, Serial No. 19,734
7 Claims. (Cl. 226—127)



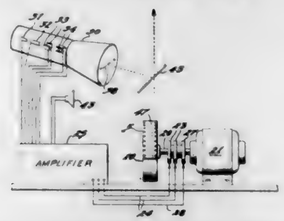
1. In a hose nozzle, having a tubular casing provided with a passage therethrough and a valve seat in said passage intermediate the inlet and outlet ends thereof, a valve for controlling the flow through said passage, a spring holding the valve to said seat, and an actuating stem for said valve having an end projecting outside said casing; manual means for moving said stem to open said valve, said means including a hand lever pivoted to said casing, a second lever pivoted to said casing and having a portion engageable with said stem and having also a latch shoulder, a latch-link pivotally connected at one end to said hand lever and having at a location spaced from such end a latch to engage said shoulder, a spring tending to hold the latch engaged with the shoulder, whereby the hand lever moves the second lever through the latch-link to move said stem and open said valve, and means operable by the rise of liquid in the outlet end of said passage to move said latch-link to release the latch from said shoulder and allow the second lever to be moved relatively to the first lever and the valve to be closed by the first-named spring.

2,528,698
CENTRIFUGAL GOVERNOR, PARTICULARLY FOR VARYING THE TIMING OF IGNITION
Terrence G. Louis, West Springfield, Mass., assignor to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application November 27, 1948, Serial No. 62,388
2 Claims. (Cl. 64—25)



1. A centrifugal governor, comprising, a rotatable driving shaft, a plate fixed to said shaft and having a flat face at right angles to the axis of the shaft, a plurality of fulcrum pins fixed to the plate and projecting from said face with their axes parallel with the axis of rotation of the plate, said pins being located in equal angular spaced relation about the axis of rotation of the plate, weight levers pivotally mounted one on each fulcrum pin for swinging movement in a plane parallel with said face and adapted to be swung outwardly by centrifugal force when said shaft exceeds a certain speed, each lever having an inner face parallel with and closely adjacent to said face of said plate, springs acting between the plate and levers for moving such levers inwardly, links pivotally connected at one end one to each fulcrum pin, each link having the inner face of its pivoted end closely adjacent to the outer face of the fulcrumed portion of one lever and extending across the weight portion of the other lever with its inner face in parallel and closely adjacent relation with the outer face of such lever, each link having a longitudinal slot therein, a stud fixed to the weighted part of each lever and extending into said slot, said stud being operable by abutment with the inner and outer ends of said slot to respectively limit the inward and outward movement of said levers, a device on the outer end of each fulcrum pin to retain the link and lever thereon and prevent undue axial movement thereof, a head on each stud to restrain the link through which it passes against undue axial movement, a driven shaft coaxial with the driving shaft, and connections between said weight levers and driven shaft for driving the driven shaft through said levers and for shifting the driven shaft angularly relatively to the driving shaft as the weight levers move in and out accordingly as the speed of the driving shaft respectively falls below or exceeds said certain speed.

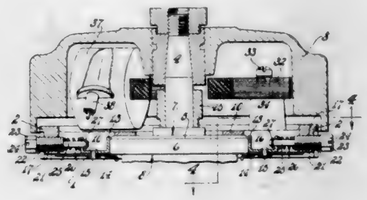
2,528,699
INVISIBLE SOUND RECORD EDITOR
Earl E. Masterson, Palmyra, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 18, 1948, Serial No. 9,300
7 Claims. (Cl. 179—100.1)



1. A sound record system comprising a sound record medium having an invisible sound record thereon, means for maintaining said record stationary, a scanning system for scanning a predetermined longitudinal section of said stationary record, means for making visible said invisible sound record, and means for visibly superimposing said visible record upon said invisible record during the reproduction thereof.

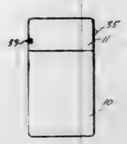
2,528,700
FASTENING MEANS FOR THE STATOR PLATES OF FLYWHEEL MAGNETOS
George F. McGrevy, West Springfield, Mass., assignor to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application December 8, 1949, Serial No. 131,723
5 Claims. (Cl. 171—209)

1. Fastening means for adjustably holding the stator plate of a flywheel magneto on the pilot flange of an engine crankcase, comprising in combination, a stator plate having a recess with a cylindrical wall, adapted to receive and engage the cylindrical surface of such flange, and an end wall normal to the axis of the cylindrical wall and adapted to engage an outer end face of the flange; and fastening means consisting of one or more identical units, each comprising a friction shoe mounted on the inner face of the stator plate for movement toward or away from said cylindrical wall in a path normal to said axis and adapted, when moved inwardly, to press on the cylindrical surface of the pilot flange and frictionally hold the stator plate in various positions of angular adjustment on the flange, a spring finger connected to move with the shoe in a parallel path and adapted, when the shoe is moved inwardly, to engage an inner end face



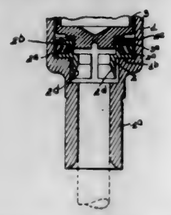
of the pilot flange and draw said end wall against said end face and hold the stator plate against axial and tilting movement on the pilot flange, and manually-operable means accessible from the outer face of said plate for moving the connected shoe and finger in their respective paths between an outer position, in which the shoe and finger are respectively disengaged from the cylindrical surface and inner end face of the pilot flange, and an inner position, in which said shoe and finger are respectively engaged with said cylindrical surface and said inner face, said means including a spring adapted to be stressed by continued operation of such means after said shoe has engaged said cylindrical wall.

2,528,701
VEST POCKET FLASHLIGHT
August Mitchell, Waterbury, Conn., assignor to Cresale Incorporated, Waterbury, Conn., a corporation of Connecticut
Application September 11, 1945, Serial No. 615,610
5 Claims. (Cl. 240—10.65)



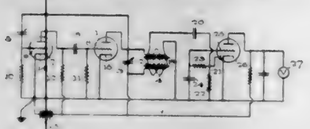
1. In a flashlight comprising a lamp bulb having an end contact, an electric cell having an end terminal, and a container having means for supporting said bulb and cell in offset relation to each other, a switch plate having concentric arcuate edge portions, a handle, and an eccentric lug, said container including an internal arcuate shoulder in engagement with said arcuate edge portions to hold a central portion of said switch plate rotatably against said cell terminal, and said bulb contact being disposed in the path of said eccentric lug as said switch plate is rotated.

2,528,702
HAMMER RETAINER MEANS FOR MACHINE TOOLS
Joseph J. Mohr, Encinitas, Calif.
Application June 8, 1945, Serial No. 598,387
10 Claims. (Cl. 125—33)



1. In an automatic machine tool having a reciprocating hammer within a casing and a removable tool, a hammer retainer means including an internal shoulder in said casing, a block laterally slidably mounted on said shoulder and having a recess adapted to receive an end portion of said reciprocating hammer and a bevelled recess to receive an end portion of said removable tool when same is inserted in operative position, such insertion forcing said block to slide on said shoulder and causing the first mentioned recess to register with said end portion of the hammer, a spring compressed between said casing and said block and adapted to move said block so that the first mentioned recess will not register with said end portion of the hammer when said tool is withdrawn from said bevelled recess.

2,528,703
CONSTANT AMPLITUDE OSCILLATOR
Gary Muffly, Penn Township, Allegheny County, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application January 22, 1945, Serial No. 573,918
8 Claims. (Cl. 175—183)

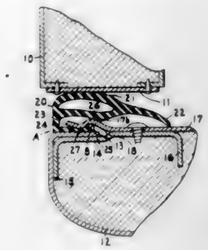


1. An apparatus responsive to magnetic fields comprising a flux valve magnetometric apparatus having magnetic core material of minimal cross-sectional area, a two-stage class C vacuum tube oscillator energizing said magnetometric apparatus and having adjustable feedback, a power supply connected to said oscillator, a coil in energy-receiving relation to said magnetometric apparatus, a rectifier connected to said coil, an amplifier connected to said rectifier and powered by said power supply and an output indicator connected to said amplifier.

2,528,704
METHOD FOR TESTING BLOOD
Paul M. Neuda, New York, N. Y., assignor to The Robinson Foundation, Inc., New York, N. Y., a corporation of New York
Application June 20, 1946, Serial No. 677,981
1 Claim. (Cl. 73—53)

In the method of testing the blood sedimentation rate, the step of introducing the quantity of blood to be tested into a substantially flat transparent container whose vertical section is bordered by a triangle, the vertical angle of which is not materially narrower than 60°.

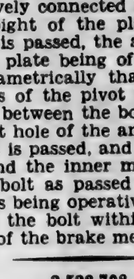
2,528,705
REFRIGERATOR DOOR ASSEMBLY
John W. Norrish, Lockland, Ohio, assignor to Avco Manufacturing Corporation, Detroit, Mich., a corporation of Delaware
Application July 23, 1948, Serial No. 40,372
4 Claims. (Cl. 20—35)



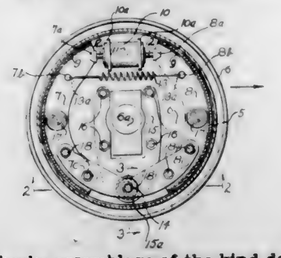
1. A door assembly for a refrigerator cabinet comprising an outer door panel, an inwardly turned flange on said outer door panel extending around the periphery of said door and presenting a continuous unbroken planar bearing surface throughout the length of said flange, an inner door panel mounted adjacent said flange, a resilient extension on said inner door panel adapted to move inwardly and outwardly with respect to said bearing surface overlying said surface in spaced relation thereto and normally biased away therefrom, a door gasket including a flange disposed in contact with and supported upon said bearing surface extending beneath said resilient extension, said gasket including a tubular section joined to said gasket flange spaced from said bearing surface and said gasket flange, said tubular section overlying said resilient extension, said tubular section presenting one surface adapted to contact said cabinet and a second surface in contact relation with said resilient extension whereby said extension is deflected inwardly upon said gasket flange toward said bearing surface upon closing of said door.

2,528,706
EXTENSIBLE CRUTCH
George E. Osborn, Spokane, Wash.
Application August 13, 1946, Serial No. 690,132
1 Claim. (Cl. 135—53)

In an extensible crutch, the combination with a main section, a telescoping tubular leg-section, and means for locking these sections in adjusted position, of a tubular foot-section having a pair of opposed slots and telescoping the leg-section, a transversely arranged retaining pin mounted in the leg-section and passed through the slots, a pad on the foot section, and a spring coiled about the foot section and interposed between the pad and the upper end of the leg-section.



2,528,707
BRAKE SHOE ANCHORING MEANS
Homer Porter, National City, Calif.
Application April 19, 1947, Serial No. 742,561
4 Claims. (Cl. 188—78)

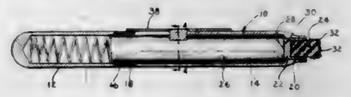


1. In a brake assemblage of the kind described, a flanged drum rotatable with the wheel on which it is mounted, a pair of oppositely disposed and vertically mounted brake shoes movable into and out of engagement with the flange of the drum for braking purposes, shoe plates rigidly attached to said shoes for mounting purposes, a pivot bolt passed through the shoe plates of the shoes to accommodate the shoe movements resulting from power applications upon the upwardly positioned toes of the brake shoes, an anchor plate with which said pivot bolt is operatively connected by means of a hole through the bight of the plate through which the pivot bolt is passed, the said pivot bolt hole of the anchor plate being of materially greater dimensions diametrically than the corresponding dimensions of the pivot bolt, to provide an annular space between the bolt and the margins of the said bolt hole of the anchor plate through which the bolt is passed, and resilient means interposed around the inner margins of the bolt-hole and the bolt as passed therethrough, said resilient means being operative to permit limited movements of the bolt within the bolt hole, in the operation of the brake mechanism and shoes.

2,528,708
NITRILES FROM ISOBUTYLENE-NITROSYL CHLORIDE ADDUCT
Erhard John Prill, Cresskill, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application July 29, 1948, Serial No. 41,392
6 Claims. (Cl. 260—465.9)

1. The process which comprises heating a liquid reaction mixture containing isobutylene-nitrosyl chloride adduct, pyridine, and sulfur trioxide and continuing heating until nitrile has been formed.

2,528,709
ERASER
Horace H. Raymond and Samuel O. Raymond, Berlin, Conn., assignors to Raymond Engineering Laboratory, Incorporated, Middletown, Conn., a corporation of Connecticut
Application December 6, 1949, Serial No. 131,426
11 Claims. (Cl. 120—36)

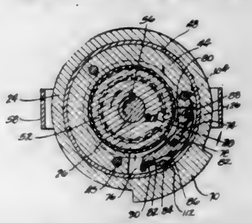


1. An eraser comprising in combination, an eraser member formed from gradually expendable friction material having magnetizable particles interspersed throughout the material, and means associable with said eraser member and operable to impose a magnetic field thereupon.

2,528,710
POLYMERIZATION OF ACRYLONITRILE TO WHITE POLYMERS IN DIMETHYL FORMAMIDE
John Cadwallader Richards, Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 19, 1946, Serial No. 717,327
16 Claims. (Cl. 260—32.6)

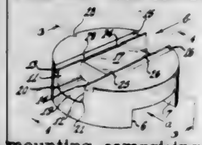
13. As a new composition of matter, an acrylonitrile polymer, dimethyl formamide and from about 0.5% to about 25% of a boron trifluoride-dimethyl formamide complex.

2,528,711
ENGINE STARTER
Clifton R. Roche, Los Angeles, Calif.
Application September 30, 1946, Serial No. 700,217
15 Claims. (Cl. 123—185)



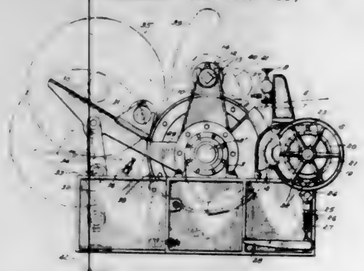
1. A starter mechanism for engines comprising, in combination, concentrically mounted drive and driven members, means for operatively coupling the driven member to an engine, means for rotating said drive member, a pawl carried by one of said members and movable into engagement with the other member to couple the two together for joint rotation, means operable to move said pawl to engaging position when the drive member is rotated in one direction, an element movable along a surface portion of said pawl and operable as it advances from one position to another along said surface portion to move the pawl out of engagement, and means engaging said element and acting to advance the element along said surface portion of the pawl to the position where it moves the pawl out of engagement when the drive member is rotated in the opposite direction.

2,528,712
LENS MOUNTING
Lawrence T. Sachtleben, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 28, 1947, Serial No. 724,885
6 Claims. (Cl. 88—57)



1. A lens mounting comprising a blank having a cylindrical external surface configuration and provided with a slot across one end and at least a second slot across the other end, said second slot being at right angles to said first slot, and said slots being cut to a depth where they intersect to form a rectangular opening, shoulders at the bottom of said second slot to hold a lens in a fixed position in said opening, and a pair of fins along the sides of said second slot.

2,528,713
PAPER REELING METHOD AND APPARATUS
William Robert Thomson, Ottawa, Ontario, Canada
Application December 21, 1946, Serial No. 717,789
In Canada January 31, 1946
10 Claims. (Cl. 242—65)

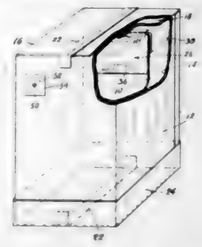


1. In a paper reeling machine having a driven reel drum, journals for the drum, and supporting bearings for the journals, a fixed sleeve surrounding each journal in spaced eccentric relation thereto, an arm pivotally mounted on each sleeve and having a reel bar receiving pocket, and means for swinging the arms about the sleeves.

2,528,714
HIGH-FREQUENCY INDUCTOR BLOCK
James B. Wadhams, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Continuation of application Serial No. 519,559, January 24, 1944. This application October 22, 1949, Serial No. 122,915
8 Claims. (Cl. 219—47)

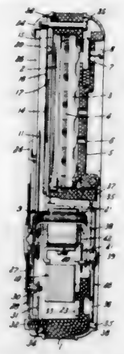
1. In an inductor adapted to heat an article by high-frequency current being supplied thereto, said inductor comprising an inductor block having an opening adapted to receive the article in closely-spaced relation with a surface of the opening, a control opening adjacent to the article-receiving opening, the control opening being connected to the article-receiving opening by a relatively narrow slot and serving as means for increasing the input impedance of the inductor on the power source, and means for varying the area of the control opening whereby to change said input impedance.

2,528,715
REFRIGERATED SHIPPING CONTAINER
George B. Wagner, Holbrook, Mass., assignor to Beekman Industries, Inc., New York, N. Y., a corporation of New York
Application February 6, 1947, Serial No. 726,939
11 Claims. (Cl. 62—91.5)



1. A shipping container for perishable products, comprising a corrugated paperboard carton having walls providing a storage chamber therein, an insulation liner disposed adjacent to and over the walls about the chamber, a refrigerating unit comprising a closed gas-tight box in the chamber and adapted to hold a block of dry ice, an insulation jacket enclosing the box, means supporting the jacket and box on said walls at one end of the container, and means including a relief valve for maintaining a predetermined temperature within the container by venting the closed box at a predetermined pressure, said venting means being the sole vent from the box.

2,528,716
EXPOSURE METER
Alexander T. Williams, Westfield, and Paul Huber, Hillside, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application October 29, 1946, Serial No. 706,346
7 Claims. (Cl. 88—23)



1. A photometer comprising a skeleton base section of insulating material having openings

extending therethrough from one face to the opposite face thereof, a photocell and means mounting the same in one opening of the base section, a measuring instrument and means mounting the same in another opening of said base section, and apertured cover plates of opaque material secured over and substantially coextensive with said opposite faces of said base section to complete a casing for the photometer.

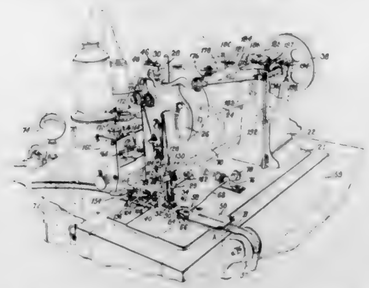
2,528,717
METHOD OF ELECTROPLATING STAINLESS STEELS AND IRONS
Clements Batcheller, Glens Falls, N. Y.
Application October 11, 1944, Serial No. 558,163
2 Claims. (Cl. 204—29)

1. The method of plating the surface of a stainless steel alloy containing at least 7%, by weight, of chromium which comprises forming in and integral with said surface an adherent, dark colored film of oxide by merely immersing said steel in a solution containing, by weight—

	Percent
Water	35 to 55
Free sulfuric acid (1.84 sp. gr.)	15 to 55
Chromic acid	2 to 20
Iron sulfate	0.01 to 10
Chromium sulfate	0.01 to 10
Minor quantities of other sulfates, bisulfates and impurities	Balance

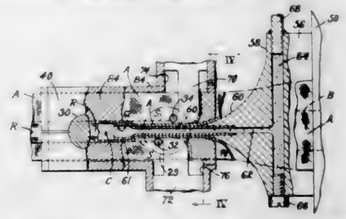
and thereafter electroplating said oxide filmed surface with copper in an alkaline electrolyte.

2,528,718
MACHINE AND METHOD FOR USE IN MAKING RIBBED STRIPS FOR INSOLES
Frederic E. Bertrand, Lynn, and Alfred S. Clark, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 13, 1947, Serial No. 728,228
53 Claims. (Cl. 112—147)



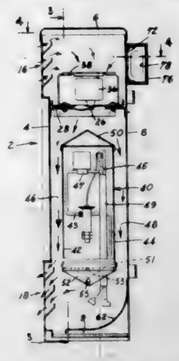
1. A machine for use in making ribbed strips adapted for attachment to insoles to provide sewing ribs thereon having, in combination, a single guide for positioning a plurality of strips in superimposed relation to each other and in predetermined transverse positions, mechanism for drawing the strips through the guide, means for folding one of said strips after it leaves the guide to form a rib with respect to another strip, and means for securing said strips together after the rib has been formed.

2,528,719
METHOD OF MAKING RIBBED STRIPS FOR INSOLES
Alfred S. Clark, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 13, 1947, Serial No. 728,227
7 Claims. (Cl. 154—117)



1. That improvement in methods of making ribbed strips adapted for attachment to insoles to provide sewing ribs thereon which comprises folding the longitudinal median portion of one strip progressively about a nozzle shaped like the rib desired on the insole to offset said longitudinal median portion with respect to the marginal portions of said one strip while maintaining another strip substantially flat with the marginal portions of said strips engaging each other, securing said marginal portions together progressively thereby forming a hollow tube-like passage enclosed by said strips, and extruding plastic material continuously from said nozzle into said passage to provide a ribbed strip having a core in its rib.

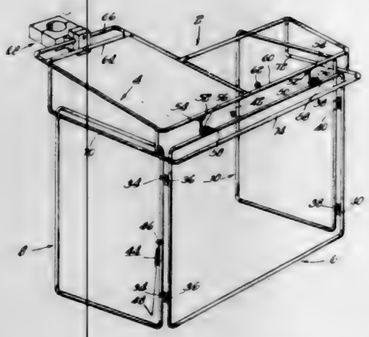
2,528,720
AIR CONDITIONING APPARATUS FOR HEATING AND COOLING
Thomas W. Binder, Maplewood, N. J.
Application July 3, 1946, Serial No. 681,239
17 Claims. (Cl. 257—3)



6. In an air conditioning system of the type wherein the humidity and temperature of the air is controlled, control means comprising, a double-pole double-throw switch which is adapted to be positioned with its poles engaging a first set of contacts when the system is conditioned for summer operation and which is adapted to be positioned with its poles engaging a second pair of contacts when the system is conditioned for winter operation, a pair of power lines connected to means constituting a source of power one of said power lines being connected to one of said first pair of contacts and the other of

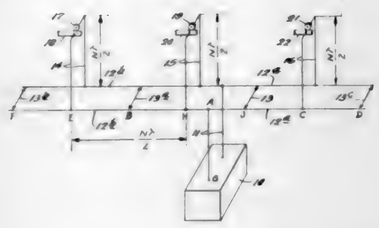
said power lines being connected to one of said poles, a refrigerant-control solenoid connected at one side to the other of said first pair of contacts, a fan motor assembly connected at its opposite sides to said poles, a pair of condition-responsive switch assemblies each of which includes a condition-responsive element and a pair of switches which are closed alternatively to condition the switch assemblies for summer or winter operation, each of the condition-responsive elements being adapted upon a rise in the value of the condition to which it is responsive to close a circuit through the one of its switches which is closed for summer operation and upon a fall in the value of the condition to which it is responsive to close the circuit through the other of its switches, one of said switch assemblies being temperature responsive and having a temperature-responsive element and the other being humidity responsive and having a humidity-responsive element, circuit means connecting said condition-responsive elements to said one of said power lines, circuit means connecting the other side of said refrigerant-control solenoid to the switch of each of said switch assemblies which is closed when the system is conditioned for summer operation, circuit means connecting the other switch of the temperature-responsive switch assembly to one of said second pair of contacts, a water-control solenoid which is energized to supply water for humidifying the air, and circuit means connecting said water-control solenoid at one side to the other of said second set of contacts and at its other side to the other contact of said humidity-responsive switch assembly.

2,528,721
PORTABLE RIG SHELTER
Ellwood Wesley Brockman and Carl D. Wagner, Tulsa, Okla.
Application November 6, 1948, Serial No. 58,724
9 Claims. (Cl. 135—7.1)



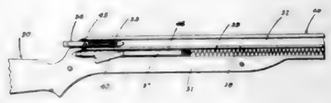
4. A collapsible shelter for use in conjunction with a portable drill rig, said shelter comprising an L-shaped roof structure with short back and sides depending therefrom, a rectangular back hingedly connected to said L-shaped roof structure, a pair of sides hingedly connected to said back, means for holding said sides flat against said back, clamping means for clamping said L-shaped roof structure to said portable drill rig, and suspension means for supporting and for automatically folding said roof structure into travelling position.

2,528,722
POWER-DISTRIBUTION SYSTEM
Fred V. Collins, Des Plaines, Ill., assignor to William F. Stahl, Kenilworth, Ill.
Application October 28, 1948, Serial No. 57,029
4 Claims. (Cl. 219—47)



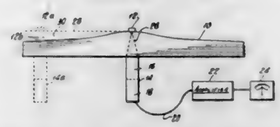
1. A transmission system adapted to distribute high-frequency electrical energy from a generator to a plurality of load devices comprising a main two-conductor line, means for connecting the same to the generator, a branch line for each load device, each connecting a load device to the main line at spaced intervals along its length, said spaced intervals and the length of said branch lines being each substantially equal to an integral number of half-wavelengths at the operating frequency, and a plurality of adjustable shorting bars bridging the main line, one of said shorting bars being interposed between each pair of branch lines.

2,528,723
ARROW PROJECTING TOY GUN
Gus Hane, Chico, Calif.
Application June 29, 1946, Serial No. 680,390
1 Claim. (Cl. 124—27)



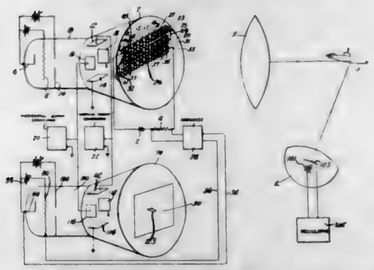
A toy gun comprising a gun-shaped body having a barrel and a stock, the barrel being provided with a longitudinal bore open at both ends, the body being provided with a second bore lying in parallelism with said first bore, the body being provided with a slot connecting both bores from a point adjacent the rear end of the body forwardly therefrom for a predetermined distance, the body being also provided with a longitudinal slot opening from the outside of the body into the second bore, a spring actuated plunger mounted for reciprocation in the second bore, a bullet engaging element fixed on the plunger and projecting through the first named slot into the first bore, a trigger on the plunger projecting through the second named slot, the body being provided with a notch in the edge of the second named slot adjacent the rear end thereof and into which the trigger may be turned to lock the trigger in retracted position, the body being provided with a recess in the wall of the first bore into which the bullet engaging element turns to clear the bore when the trigger is turned into engagement with said notch.

2,528,724
RADIOACTIVE MEASURING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 12, 1945, Serial No. 604,694
1 Claim. (Cl. 250—83.6)



The method of measuring variations in the thickness of the wall of an object which comprises disposing a source of penetrative radiation at one side of said wall, disposing a detector of transmitted penetrative radiation at the other side of said wall and exactly opposite said source and measuring variations in the intensity of the radiation reaching the detector while moving the source and detector about over the opposite surfaces of the wall and while maintaining the source and the detector exactly opposite each other and both in contact with the wall, so that as the wall thickness changes the measured radiation intensity will change due both to the change in the amount of wall material and to the distance separating the detector from the source.

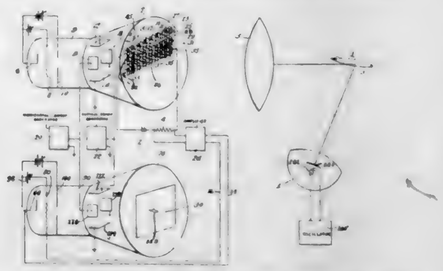
2,528,725
SOUND RANGING SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application June 2, 1945, Serial No. 597,281
43 Claims. (Cl. 178—6.8)



1. An electric system having, in combination, a bank of piezo-electric sound-receiving elements, means for focusing sound waves from an object upon the sound-receiving elements, a load circuit, means for permanently connecting the bank of receiving elements to the load circuit, means for scanning the receiving elements to develop signals in the load circuit representative of the sound-wave energy focused upon the receiving elements, and means operating in synchronism with the scanning means and responsive to the signals developed in the load circuit for producing a likeness of the object.

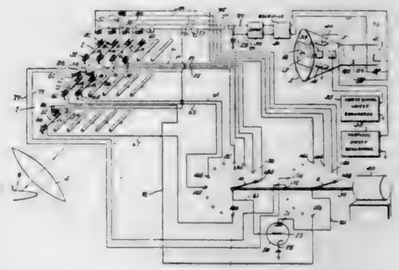
2,528,726
ELECTRIC SYSTEM
Robert Harvey Rines, Brookline, Mass.
Original application June 2, 1945, Serial No. 597,281. Divided and this application May 14, 1947, Serial No. 748,030
6 Claims. (Cl. 250—164)

1. In an evacuated cathode-ray apparatus provided with means for producing an electron stream, a mosaic upon which the electron stream may impinge provided with a plurality of groups of piezo-electric elements having front and rear surfaces and substantially equally spaced along a predetermined dimension, with the piezo-electric elements of each group substantially equally spaced along a second predetermined dimension,



the front surfaces of the elements being exposed through the front surface of the screen to receive sound waves and the rear surfaces of the elements being exposed through the rear surface of the screen within the evacuated cathode-ray apparatus, and means for directing the electron stream upon the rear surfaces of the elements.

2,528,727
SONIC PICTURE SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application August 3, 1945, Serial No. 608,782
23 Claims. (Cl. 178—6.8)

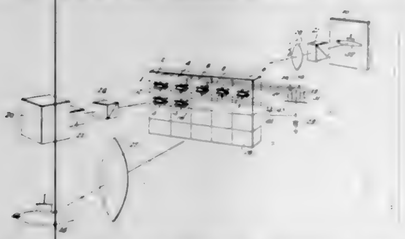


8. An electric system having, in combination, a plurality of magnetostrictive sound-receiving elements, means for converging sound energy emanating from an object upon the magnetostrictive elements to set the magnetostrictive elements into mechanical vibration, electric-circuit means, means for connecting the magnetostrictive elements to the electric-circuit means to produce magnetostrictive-oscillator means for enhancing the mechanical vibrations set up in the magnetostrictive elements, and means connected to the magnetostrictive-oscillator means for producing a likeness of the object.

2,528,728
SOUND-RECEIVING METHOD AND SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application August 3, 1945, Serial No. 608,781
33 Claims. (Cl. 343—10)

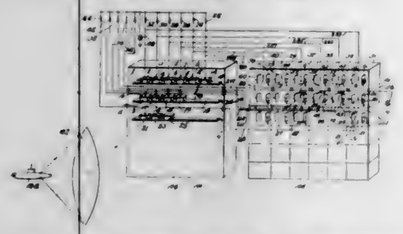
9. An electric system having, in combination, a sound lens, and a plurality of light-modulation

sound receiving cells disposed in the focal plane



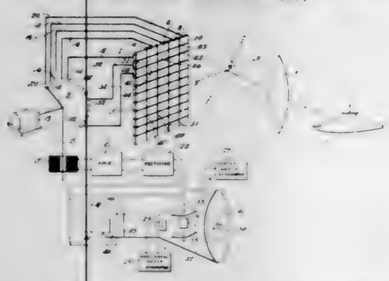
of the sound lens and means for sending a light beam through the plurality of cells.

2,528,729
OBJECT DETECTING SYSTEM PRODUCING A VISIBLE LIKENESS OF THE OBJECT
Robert Harvey Rines, Brookline, Mass.
Application August 3, 1945, Serial No. 608,783
23 Claims. (Cl. 177—352)



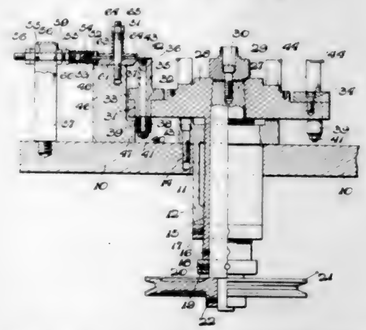
1. An electric system having, in combination, a bank of piezo-electric means, a bank of gas-discharge means connected with the piezo-electric means, means for focusing a sound-wave image of an object upon the piezo-electric means to produce mechanical vibrations of the piezo-electric means, and means connected to the gas-discharge means controlled in accordance with the intensity of the mechanical vibrations of the piezo-electric means and directly responsive to the alternating voltages produced thereby for controlling the intensity of the discharge of the gas-discharge means to produce a likeness of the object.

2,528,730
SONIC PICTURE SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application August 7, 1945, Serial No. 609,420
22 Claims. (Cl. 178—6.8)



1. An electric system having, in combination, a bank of diaphragm sound-receiving elements for receiving a distribution of sound waves from an object, sound distributing means associated with the receiving elements for successively connecting with the elements, and means associated with said distributing means for producing a likeness of the object.

2,528,731
BELLOWS TRIMMING MACHINE
Samuel W. Steele, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application October 1, 1947, Serial No. 777,304
8 Claims. (Cl. 164—38)



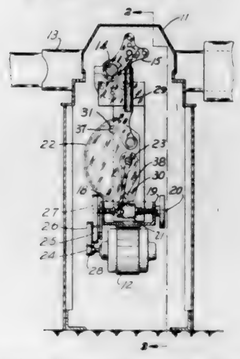
1. In an apparatus of the character described, the combination of a rotatable turntable, a plurality of bearing blocks mounted on said turntable, a spindle rotatably mounted in each of said blocks and offset with respect to the axis thereof and projecting beyond the same, a driving roller on the projecting end of each spindle, disk means for supporting an element to be trimmed on each spindle and partially extending beyond its respective bearing block, means providing a concave arcuate surface concentric with the axis of said turntable and positioned to be engaged by each driving roller to rotate the same as the turntable rotates each spindle past said surface, and a stationary arcuately concave trimming member concentric with the axis of said turntable and engageable with the element on each supporting means while said element and supporting means is being rotated by the associated spindle.

2,528,732
REACTION PRODUCTS OF DIESTERS OF DITHIOPHOSPHORIC ACID AND MINERAL OIL COMPOSITIONS CONTAINING THE SAME
Frederick B. Augustine, Jefferson, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application January 31, 1947, Serial No. 725,730
10 Claims. (Cl. 252—46.6)

1. A mineral lubricating oil containing a minor proportion, sufficient to improve the stability thereof against deterioration by oxidation, of a reaction product obtained from the reaction involving about one mol of a diester of dithiophosphoric acid in which all alkyl radicals in the diester are saturated, with one mol of an organic compound containing at least one double bond in a straight chain of carbon atoms at least four carbon atoms in length, said organic compound being selected from the group consisting of aliphatic hydrocarbons, alcohols, fatty acids and their esters, and containing not less than eight carbon atoms, at a temperature falling within the range varying between about 100° C. and about 200° C.

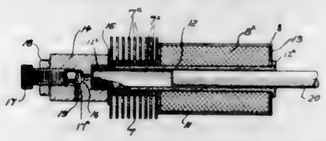
7. A reaction product obtained from the reaction involving about one mol of a diester of dithiophosphoric acid in which all alkyl radicals in the diester are saturated, with one mol of an organic compound containing at least one double bond in a straight chain of carbon atoms at least four carbon atoms in length, said organic compound being selected from the group consisting of aliphatic hydrocarbons, alcohols, fatty acids and their esters, and containing not less than eight carbon atoms, at a temperature falling within the range varying between about 100° C. and about 200° C.

2,528,733
CROSSING GATE
Edward A. Brass, Shreveport, La.
Application March 30, 1945, Serial No. 585,695
11 Claims. (Cl. 39—7)



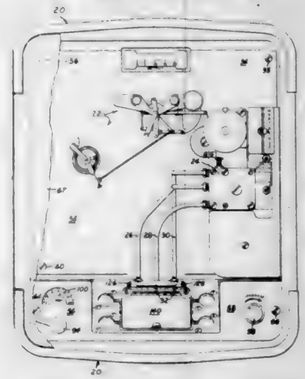
1. A crossing gate comprising a gate, a frame, a shaft that is secured to and that carries said gate, said shaft being rotatively supported by said frame, a wormwheel segment, brake rods, a reversible worm and worm shaft for providing an oscillating movement for said wormwheel segment, members on said worm shaft that are in register with and are engageable by said brake rods, and means responsive to movement of said gate to cause said brake rods to engage said members and retard and halt rotation of said worm and worm segment whenever said gate approaches the limits of its travel.

2,528,734
RETARDED SOLENOID TRACTIVE MEANS
Edward A. Brass, Shreveport, La.
Application July 21, 1945, Serial No. 606,318
3 Claims. (Cl. 175—372)



1. In a tractive device the combination of a body, a passage that is within and that extends through said body, a valve that is adjustably mounted in said body and extends into said passage to control the rate at which air can flow through said passage, a threaded recess in said body adjacent to and surrounding one end of said passage, the other end of said passage being spaced from said threaded recess and opening to the exterior of said body, a plunger tube of self-lubricating metal, threads on one end of said plunger tube that engage and are held by the threads of said threaded recess in said body, a plunger that is disposed within and is dimensioned so it can reciprocate relative to said plunger tube, an electromagnet winding that is supported by said plunger tube, a plurality of spaced-apart heat-radiating fins mounted on and supported by said plunger tube, said heat-radiating fins being adjacent said body, and a flange on the other end of said plunger tube, said plunger tube being dimensioned so adjustment of the threaded end thereof in said threaded recess of said body will enable said flange to clamp said heat-radiating fins and said electromagnet winding between said body and said flange, said body and said plunger tube coacting to form a dash pot that can maintain the rate of movement of said plunger at a predetermined value, said valve being adjustable to vary said predetermined value, said plunger tube responding to heat generated in said electromagnet winding to provide a continuously lubricated surface on the interior of said plunger tube relative to which said plunger can reciprocate.

2,528,735
INSTRUMENT CASE CONSTRUCTION
Benjamin H. Bristol, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application August 21, 1946, Serial No. 691,925
4 Claims. (Cl. 137—69)



1. In a pneumatically-operated controller including pneumatically-operated follow-up mechanism and a relay valve controlling a source of supply pressure to said follow-up mechanism to establish an output control pressure, in combination, a main case supporting therein the pneumatic follow-up mechanism and relay valve, a sub-case, fastening means detachably securing said main and sub-cases together as a unit, means for permanently securing said sub-case in an opening in a panel, said fastening means and sub-case serving to removably support said main case in said opening, a switching valve and a regulating valve supported in said sub-case, sep-

arate connections from said switching valve to a device operated by the output control pressure, to a source of air supply, to an intake port and to an output port of said regulating valve, to an intake port and to an output port of said relay valve, and to said pneumatic follow-up mechanism, said switching valve having a "run" position connecting said air supply pipe with the connection to said relay valve intake and connecting the connection from the said relay valve output with the connection to said follow-up mechanism and with the pipe connection to said device, and shutting off the connections to said regulating valve, and having a "servicing" position connecting said air supply connection with the connection to said regulating valve intake and connecting the connection from said regulating valve output with the connection to said device, and shutting off the connections to said relay valve and to said follow-up mechanism, detachable connecting means in the connections between said switching valve and said relay valve and follow-up mechanism whereby when said connecting means is detached and said switching valve is in servicing position said device may be operated by said regulating valve and said main instrument case may be detached from said sub-case and removed from said opening in said panel

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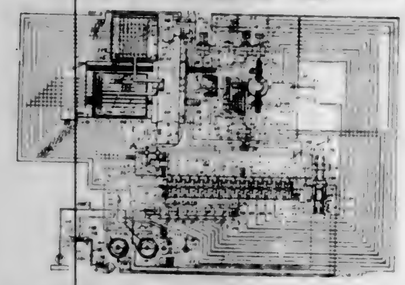
2,528,736
CONTROL MECHANISM
Edward P. Bullard III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application June 24, 1944, Serial No. 541,986
22 Claims. (Cl. 192—142)

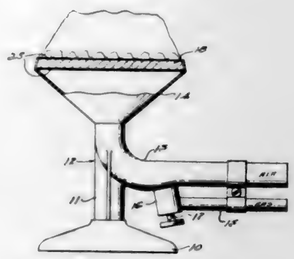


1. In a machine tool including a movable member, means for moving said member; an electrical circuit comprising in series arrangement, a source of voltage; an operating means adapted to be energized by said source of voltage for rendering ineffective said moving means; contact means adapted to be closed at any desired rate by the action of said movable member for energizing said circuit to thereby render effective said operating means; and other contact means adapted to be opened incident to the action of said operating means for de-energizing said circuit while said first-mentioned contact means remains closed.

2,528,737
BLOOD FILTER AND DRIP METER
William F. Butler and Fred A. Cutter, Oakland, Calif., assignors to Cutter Laboratories, Berkeley, Calif., a corporation of California
Application February 14, 1947, Serial No. 728,680
7 Claims. (Cl. 128—214)

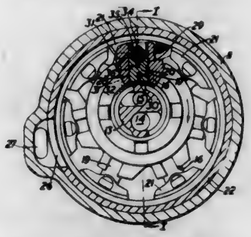
1. An assembly comprising: a spear head; a filter stocking supported by and depending from said spear head, the upper end of said stocking being closed and its lower end being open; and a rigid perforated tube mounted on and depending from said spear head, said spear head, stocking and tube being adapted to be forced through the stopper of a flask with a portion of said stocking sealed between said tube and said stopper.

2,528,738
FUEL BURNER FLAME PLATE
William G. Calkins, Detroit, and Edward W. Upham, Birmingham, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 27, 1944, Serial No. 565,228
5 Claims. (Cl. 158—116)



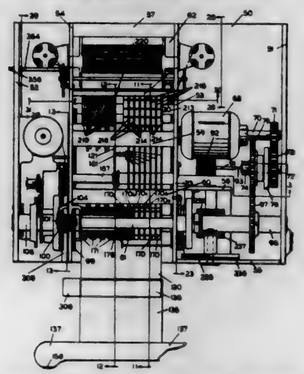
1. In a fluid fuel burner including a casing forming an open-ended chamber for receiving components of a combustible mixture for discharge to a combustion surface, a flame plate over the open end of the chamber and secured to said casing having an exposed face forming the combustion surface, said plate including a mass of metallic particles including metals having relatively different melting points, adjacent particles having surface contacting portions secured together by diffusion of the metal having the lower melting point into the metal having the higher melting point to form a metallurgical bond therebetween and other surface portions of adjacent particles being spaced apart to form voids therebetween, said voids cooperating to provide a maze of intercommunicating pores through which the combustion components flow from the chamber to the combustion surface-forming face of the plate.

2,528,739
HIGH-PRESSURE PUMP
Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application June 14, 1948, Serial No. 32,760
In Great Britain June 24, 1947
8 Claims. (Cl. 103—161)



1. In a pump of the type which comprises a cylinder assembly the bores whereof are arranged about a common axis, a plunger reciprocable within each bore, a controlling surface offset differently relative to each of the several plungers, and a slipper interposed between each plunger and said controlling surface, the controlling surface, upon relative movement between itself and the plungers, effecting reciprocation of the plungers, and tending to create maximum wear in localized areas between each plunger and its bore by reason of the tendency of the plunger to cock in its bore under the influence of drag loading between the slipper and the controlling surface; and a passage leading from a pressurized pump space to such localized areas, during maximum drag loading on the latter, the pressure fluid so conveyed reacting there between the plunger and its bore to oppose the cocking tendency of the plunger.

2,528,740
TAGGING AND LISTING MACHINE
Thomas A. Carothers, Clarence B. Des Jardins, and Edward J. Utz, Cincinnati, Ohio, assignors to The National Marking Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application December 7, 1945, Serial No. 633,440
33 Claims. (Cl. 101—95)



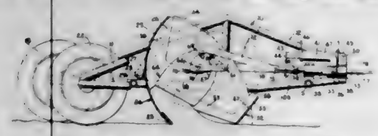
1. A machine of the class described comprising the combination of a plurality of marking type-carriers, type carried by said type-carriers adapted to print a number; means for automatically adjusting said type-carriers to position the type thereon to print the next consecutive number, after a predetermined series of operations; means for taking an impression on a tag from said marking type-carriers; a plurality of listing type-carriers, type carried by said type-carriers; connections between said marking and listing type-carriers, whereby adjustment of the former to bring selected type to printing position will adjust the latter to bring corresponding type to listing printing position; and means, effective for a predetermined one only of said series of operations, for taking an impression on a record sheet from the type at listing printing position.

33. In a machine of the class described, the combination of, a main operating means operable in one or more cycles to record a transaction; means to advance a record sheet step by step across a list printing station; means to supply record tag material to a tag printing station step by step; a set of type wheels to print data on a record sheet at the list printing station; a set of type wheels to print data on the tag material at the tag printing station; manually operable means to set up the same data on both settable type means by a selection means common to both settable type means; a set of number type wheels settable through a units order wheel for printing consecutive numbers on a record sheet at the list printing station; a set of number type wheels settable through a units order wheel for printing consecutive numbers on tag material at the tag printing station; means to sever a tag at the tag printing station; means operable after the selected number of machine cycles to advance the units number wheels of both sets a unit; platen means operable to take an imprint, at the list printing station on a record sheet, from the list printing type wheels of both the data set and the consecutive number set; platen means operable, after being moved by an operator to an operating position, to take an imprint on the tag material at the tag printing station from the tag printing type wheels of both the data set and the consecutive number set, said platen being adapted to receive a garment; means operable to fasten a severed tag to the garment held on the platen; and a program control means operated by the main operating means, in one cycle of operation to advance a record sheet across the list printing station and to supply record tag material to the tag printing station, to print data on a record sheet at the list printing station in the last of the selected number of cycles, to print data on tag material at the tag printing station, to operate the fastening means to fasten the printed tag material to the garment held on the platen and to sever the printed portion of the tag material fastened to the garment, to operate the units number wheel advancing means in the last selected cycle, said program control means being operated by the main operating means under control of a manually operable selector to control the number of machine cycles.

2,528,741
DRAG SCRAPER
Marion A. Clark, Tulare, Calif.
Application October 22, 1948, Serial No. 55,978
9 Claims. (Cl. 37—129)

1. A drag scraper comprising a frame adapted for longitudinal movement, a scraper blade mounted transversely of the frame adapted to scrape soil against the forward side thereof on forward movement, an auxiliary bucket having an open side pivotally mounted forwardly of the scraper blade normally located with its open side extending rearwardly and downwardly adjacent

the scraper blade, and means operable by a forward pull on the scraper for moving the bucket

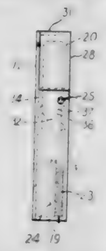


to upwardly and rearwardly extended containing position after a predetermined quantity of soil has accumulated ahead of the scraper blade.

2,528,742
PET FEEDER
James R. Coffing, Danville, Ill.
Application June 17, 1949, Serial No. 99,682
13 Claims. (Cl. 161—10)

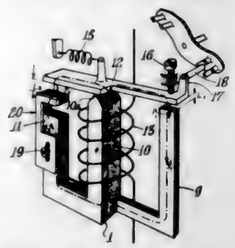
1. In a pet feeder having an enveloping housing with a feeding opening in the top thereof and a rotatable support within the same and intermittently indexable, the combination of a plurality of feeding containers carried by the support and successively exposed by the opening upon progressive indexing of the support, means normally constraining the support for rotation, stop means limiting such rotation to an indexing amount, and time controlled means intermittently releasing said stop means for such indexing.

2,528,743
CIGARETTE CASE
Edward T. Eggebrecht, Hammond, Ind.
Application December 12, 1947, Serial No. 791,415
15 Claims. (Cl. 206—41.2)



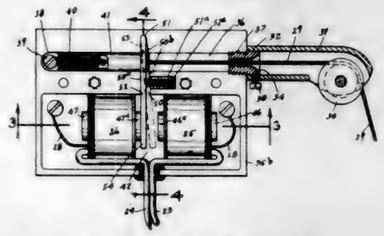
11. A cigarette case comprising a casing having a single side wall constituting one wall of the cigarette case, an interfitting tray having a single side wall constituting a part of the other side wall of the cigarette case, said tray being relatively slidable longitudinally of the casing toward raised and lowered positions of adjustment whereby the cigarettes arranged in the tray are respectively made available and hidden, a closure pivotally mounted on the casing for rocking movement between open and closed positions, said closure constituting the remainder of the other side wall when in the closed position, cams on said tray cooperating with notches in said closure for positively actuating said closure toward the open position and to the closed position during relative longitudinal movement of said tray and casing, spring means constantly urging the tray toward its lowered position of adjustment, said tray being stopped at its lowered position of adjustment by said cooperating cams and notches, and an upright lateral extension on said tray engageable with said closure for holding the closure in its open position and stopping relative movement of the tray beyond its raised position.

2,528,744
ELECTROMAGNETIC APPLIANCE
Paul Fehr, Zug, Switzerland, assignor to Landis & Gyr A. G., a body corporate of Switzerland
Application November 27, 1945, Serial No. 631,097
In Switzerland November 30, 1944
1 Claim. (Cl. 177—311)



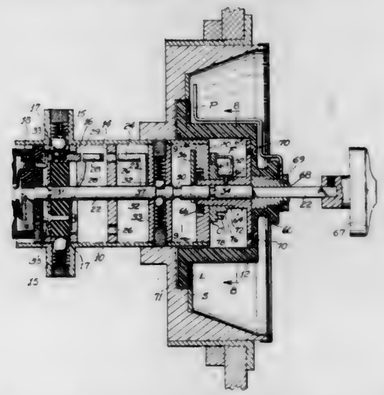
An electromagnetic device having a ferromagnetic E-shaped core, one of its outer limbs having a smaller cross section than the other, while an exciting coil is mounted on a central limb, an oscillating armature mounted on the central limb to be attracted to either of the outer limbs, spring means urging the armature towards the limb of larger cross section in which position the air gap between the limb of smaller cross section is considerably smaller than the air gap at the other outer limb, the air gap at said other limb being adjustable by means of a variably positionable pole piece, said armature having its ends of different cross section with the larger cross section at the end adjacent the limb of larger cross section, one end of the armature carrying a member to cooperate with and actuate a metering mechanism, whereby long impulses of lower intensity and short impulses of great intensity can be distinguished by the metering mechanism.

2,528,745
AUTOMATIC THROTTLE CONTROL SYSTEM
Gerald A. Fisher, Huntington, Ind., assignor to The Maco Corporation, Huntington, Ind., a corporation
Application January 7, 1948, Serial No. 1,010
11 Claims. (Cl. 192—3)



1. In a throttle control system for holding an accelerator of a vehicle in a position above low idle, the accelerator being normally constrained to low idle, the vehicle including a stoplight circuit normally energized when vehicle braking is effected, the combination therewith of a master switch and a control unit, said unit comprising a pair of electromagnets in close proximity to each other, a single armature type keeper juxtapositioned thereto and selectively responsive magnetically to each magnet when energized, a throttle connected member movable to and fro, and a catch member for selectively locking and releasing the to and fro movable member in any desired position above that corresponding to low idle, the catch member being rigid with the keeper, the master switch controlling energization of one electromagnet to effect locking imposition by the catch member, and the other being automatically energized when braking is effected and for effecting catch member release of the to and fro movable member, accelerator advance automatically effecting catch member release of the to and fro movable member.

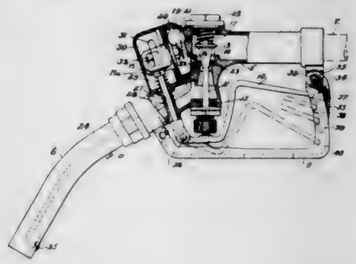
2,528,746
CAM-OPERATED LATCH MECHANISM
Edward Stanley Giffin, Auburn, Wash.
Application May 19, 1947, Serial No. 749,028
11 Claims. (Cl. 70—290)



1. A lock comprising a tubular casing, a rotatable and reciprocable rod lockable against reciprocation and supported and guided in said casing for rotation and reciprocation axially thereof, handle means to reciprocate and rotate said rod in said casing, a latch carried in said casing and mounted for reciprocation toward and away from said rod, latch-engaging means on said rod movable with said rod axially of said casing into latch-engageable position, cam means rotatably mounted in said casing and having a bore through which extends said rod in slidable relation thereto, means for rotating said cam means, and cam-follower means coacting with said cam means, mounted in said casing for radial movement, and operable to effect movement of said latch by predetermined rotational movement of said cam means.

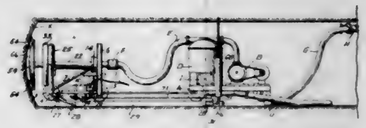
2,528,747
AUTOMATIC FILLING NOZZLE
Clarence Paul Gravelle, Philadelphia, Pa.
Application June 30, 1948, Serial No. 36,022
5 Claims. (Cl. 226—127)

1. In an automatic filling nozzle for insertion into a container to be filled with liquid, said nozzle having a valve body with a liquid passage therein, a valve in said body to control the flow of liquid through said passage and a spring tending to close the valve, the combination of a lever having a position for normally opening the valve against the pressure of the valve spring, a friction latch for the lever to hold it in said position, a



spring for the latch tending to release the same, automatic means for closing the valve and relieving the pressure of the valve spring on the lever while it is held in said position, the latch spring having such pressure that it will overcome the friction between the latch and lever when the pressure of the valve spring on the lever is relieved.

2,528,748
GRANULAR MINING MACHINE
Frank C. Greene, Oakland, Calif., assignor to In Situ Gases Incorporated, Reno, Nev., a corporation of Nevada
Application November 14, 1945, Serial No. 628,434
8 Claims. (Cl. 262—7)

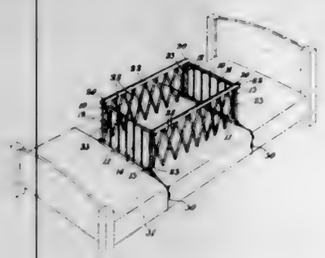


1. A mining machine of the class described, including a mobile base, power means mounted on said base; a gyrating, rotary shaft supported at one end of the base and driven by said power means; a contour guide on said base, movable means supported by said guide supporting the forward portion of said shaft; driving means in said shaft operatively engaging said movable means on the guide to move the same so that the shaft follows the contour of the guide; a cutter head fixed on the forward end of said shaft; a percussion pick-bit rotatably mounted adjacent the periphery of said head and including a plurality of tangentially tapered teeth terminating in relatively blunt points, said pick-bit being rotated by the penetration of said points into the mass being mined; and means for progressively advancing said mobile base.

2,528,749
COLLAPSIBLE BABY CRIB
Elsie E. Hill, Sea Bright, N. J.
Application April 23, 1946, Serial No. 664,186
6 Claims. (Cl. 5—99)

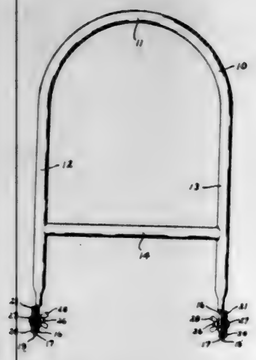
5. A child's crib comprising ends having vertical side bars, lazy-tong members detachably con-

nected to the side bars, longitudinal top bars extending between the corners of the ends, and means for detachably connecting the longitudi-



nal bars to the ends, said longitudinal bars having grooves in their lower faces to seat the upper ends of the lazy-tong members to prevent lateral displacement of the members when extended.

2,528,750
ABDOMINAL MUSCLE EXERCISER
Matthew R. Hull, Connersville, Ind.
Application November 5, 1948, Serial No. 58,507
1 Claim. (Cl. 272—79)

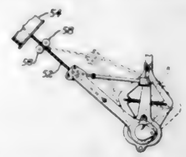


An exerciser comprising an inverted U-shaped member having a pair of spaced apart side legs interconnected by an upper cross member; a horizontally disposed foot member interconnecting said legs near their lower end portions but spaced above their ends; separate base members respectively carrying said legs; each of said base members comprising a pair of vertical plates; resilient friction material interposed between said plates and extending below both of said plates to provide a floor engaging surface; one of said plates being outwardly bowed with respect to the other plate in the nature of a leaf spring; a bolt interengaging respectively the lower end portion of said legs, said pair of plates, and the resilient material therebetween to urge said leg lower end portion into frictional engagement with one of said plates, said bolt interengaging said bowed plate through the bowed portion thereof; and a nut screw-threadedly engaged on said bolt for varying pressure of said engagement.

2,528,751
PREPARATION OF ACID ADSORPTIVE ALUMINA
James B. Hunter, Upper Darby, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application April 17, 1946, Serial No. 662,935
7 Claims. (Cl. 23—143)

1. The method of producing an acid adsorptive alumina, which consists in reacting the entire amount of aluminum sulfate present in an aqueous solution with an alkali metal bicarbonate, and separating the alumina from the reactant solution.

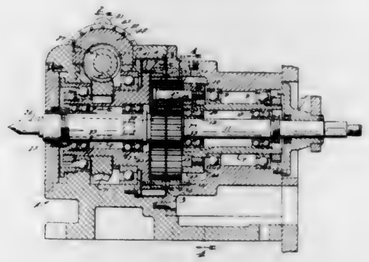
2,528,752
CONTROL LINKAGE MECHANISM
Clarence E. Jacobus, Kent, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application November 7, 1949, Serial No. 126,013
8 Claims. (Cl. 74—469)



1. In combination with a rotatable member, control linkage mechanism comprising a coordinating link disposed generally at right angles to the rotational axis of said rotatable member and having a base end and an opposite load end located generally at opposite sides of such axis, crank means carried for rotation by said rotatable member and connected pivotally to said coordinating link at a location generally intermediate the latter's ends on the side of said axis generally opposite said base end of the link, to define a first pivot for said coordinating link shiftable by rotation of said crank means with said rotatable member in accordance with a first selected quantity variation, independent shifting pivot means connected to the base end of the coordinating link, means for shifting said latter pivot means to rock said coordinating link about its first shifting pivot in accordance with a second selected quantity variation, a proportioning arm pivoted for swinging about an axis generally in the vicinity of and parallel to said rotatable member's axis, link means pivotally interconnecting the load end of said coordinating link and the swinging end of said proportioning arm to define a linkage triangle, and means transmitting a third quantity variation and connected to said proportioning arm for coordination of such third quantity variation with the first and second quantity variations through the medium of said linkage triangle and coordinating link.

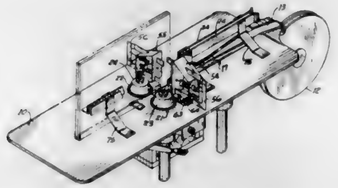
2,528,753
INDEX HEAD FOR ROTARY SPINDLES
James L. Jessup, Detroit, Mich., assignor to Colonial Broach Company, Warren Township, Mich., a corporation of Delaware
Application February 24, 1949, Serial No. 78,212
4 Claims. (Cl. 51—216)

1. An indexing head of the rotating spindle type, including a housing, a drive shaft rotatably supported in said housing, a sleeve member rotatably supported in said housing and axially spaced from said drive shaft, a spindle rotatably supported in said sleeve in end-to-end aligned relationship with respect to said drive shaft, sun gears carried on the adjacent ends of said drive shaft and spindle, a plurality of adjacent similarly spaced planetary gears meshing with each of said sun gears, means rotatably supporting each adjacent pair of planetary gears, means rotatably suporting said last means in said housing, a ring gear connected to said housing and



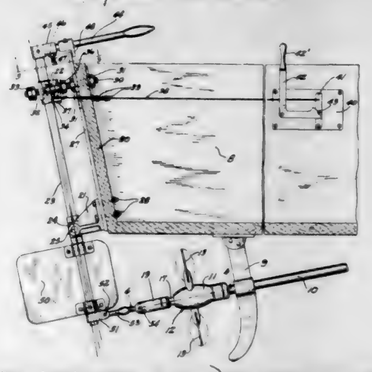
meshing with the planetary gears in said drive shaft sun gear, a second ring gear connected to said rotatable sleeve and meshing with said spindle planetary gears, whereby when said drive shaft is rotated said spindle will be driven through said gearing independently of said sleeve and when said sleeve is rotated said spindle will be rotatably driven through said gearing relative to said drive shaft, and means for fixing said sleeve in any one of a plurality of rotative positions.

2,528,754
DEVICE FOR BINDING THE EDGES OF LANTERN SLIDE ASSEMBLIES OR SIMILAR ARTICLES
Dallas H. Johnson, Lakewood, Ohio
Application August 11, 1948, Serial No. 43,646
12 Claims. (Cl. 216—22)



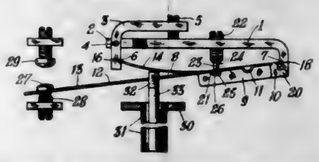
1. A device of the class described for applying adhesive tape to the edge portions of a flat article comprising a supporting member, means arranged at one end of said supporting member for holding a roll of adhesive tape, means for guiding and folding said tape as it moves across said supporting member, opposed rolls adapted to engage opposite sides of the article and move it along said supporting member, opposed knife means for severing said tape after the passage of the article therebetween, and means for simultaneously separating said driving rolls and said knife means.

2,528,755
BOAT RUDDER AND REVERSIBLE PITCH PROPELLER ASSEMBLAGE
Harry G. Johnson and Leonard M. Kalous, Oshkosh, Wis., assignors to United States Motors Corporation, a corporation of Wisconsin
Application April 5, 1948, Serial No. 18,866
13 Claims. (Cl. 115—34)



1. In a boat having a reversible pitch propeller including means for adjusting the pitch of the propeller blades, a rudder shaft revolubly and pivotally mounted on the boat, an independent rudder carried by said shaft, and connections between the rudder shaft and the propeller blade adjusting means whereby pivotal movements imparted to the rudder shaft are transmitted to said propeller blade adjusting means to vary the pitch of the propeller blades.

2,528,756
TOGGLE-LEVER SWITCH
Albert Käser, Zug, Switzerland, assignor to Landis & Gyr, A. G., a corporation of Switzerland
Application July 10, 1947, Serial No. 760,005
In Switzerland July 23, 1946
3 Claims. (Cl. 200—67)

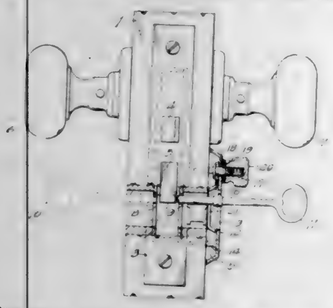


1. A toggle lever switch comprising a toggle lever spring having a rigid portion, spaced pivot points, and a resilient tongue portion extending forwardly from said rigid portion and having its free edge mounted in the forward pivot point; an actuator for said spring located between said pivot points and acting upon said resilient tongue portion; switching contacts including spring mounted and normally stationary auxiliary contacts; and stops spaced rearwardly from said contacts for limiting the movement of said toggle spring in each direction.

2,528,757
DOOR KEY FASTENER
George Kindler, St. Louis, Mo.
Application December 23, 1946, Serial No. 718,020
1 Claim. (Cl. 70—429)

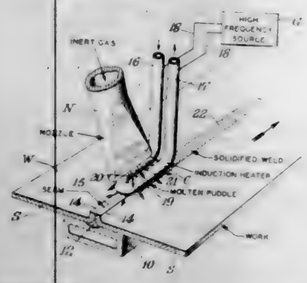
The combination of an escutcheon plate having a key hole adapted to be secured to the

inside of a door, an anti-key retracting member pivotally connected at its upper end to the plate directly above and spaced from the top of the key hole capable of swinging movement, said member having a depending laterally curved rearwardly offset portion adapted to slidably engage with the inside face of the door and at one side of the key hole in the escutcheon plate and having a horizontally disposed lower end portion adapted to span the lower end of the key hole to prevent retraction of the forward



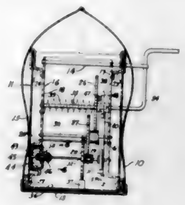
extremity of a key from a door lock from the inside of the door and to prevent the key from being entirely pushed out of the door lock from the outside of the door, and the horizontally disposed lower end portion of the anti-key retracting member having a forwardly projecting flange at the lower edge portion thereof adapted for sliding engagement with the inside face of the escutcheon plate to prevent rearward displacement of the curved portion of the anti-key retracting member, and means for manually arcuately oscillating the last mentioned member.

2,528,758
GAS SHIELDED INDUCTION FUSION WELDING PROCESS
Barnwell R. King, Flushing, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application July 10, 1948, Serial No. 38,140
5 Claims. (Cl. 219—10)



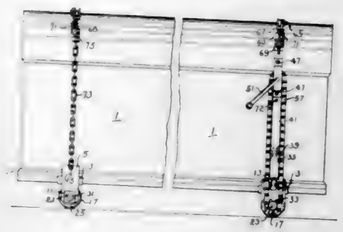
1. Process of inert gas shielded induction fusion welding which comprises juxtaposing parts of base metal to be welded, directing a stream of inert gas selected from the group consisting of argon and helium against such parts on the zone to be welded, inducing a high-frequency current in such parts of sufficient intensity to heat the metal locally and cause the base metal of such parts to melt and form a relatively small pool of molten base metal in the welding zone, such pool of molten metal being protected from the atmosphere by said stream of inert gas, and then removing such stream of inert gas and the induced high-frequency current, so that the molten metal hardens, leaving the parts integrally united.

2,528,759
CROWING TOY COCK
Stanley Krakowski, Newark, N. J.
Application June 23, 1948, Serial No. 34,696
3 Claims. (Cl. 46—117)



1. A toy cock adapted to simulate a cock's crow and comprising a hollow body simulative of a cock, a crowing mechanism for the hollow body, the crowing mechanism comprising a vibrating diaphragm, a reed for the diaphragm, a gear train coacting with the reed, the gear train comprising at least a driver and a driven member, a rotatable shaft for each of said members, means keying the driven member to the shaft, the driver being free to rotate on the shaft, a cam keyed to the shaft of the driver and in operable engagement with the driver at one point, means placing the gear train under unwinding tension, manually operated cam brake means between the shafts of the driver and driven members, and centrifugal brake means for the shaft of the driven member.

2,528,760
ROLLER TRANSPORTING DEVICE FOR HEAVY OBJECTS
Fred E. Kruckenberg, Fort Wayne, Ind.
Application July 24, 1946, Serial No. 685,953
7 Claims. (Cl. 280—3)

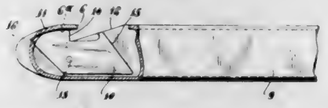


1. In an object handling device, a roll, a bearing support for each end of said roll, a bracket on each support for supporting the object, a vertical member fixed to said support, a stirrup mounted at the upper end of said member, said vertical member being hinged for movement between folded and straightened positions, a sprocket connected to drive the roll disposed on the side of the support opposite the roll, a sprocket in the stirrup and a chain adapted to drivingly engage both sprockets when the hinged member is in its straightened position.

2,528,761
AZEOTROPIC DISTILLATION OF ETHYL ALCOHOL FROM METHYL ETHYL KETONE
George R. Lake and Josephine M. Stribley, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application November 6, 1944, Serial No. 562,268
1 Claim. (Cl. 202—42)

A process for separating ethyl alcohol from methyl ethyl ketone contained in a mixture with said ethyl alcohol and which is difficult to separate by means of ordinary fractional distillation due to a small difference in their boiling points and due further to an azeotrope formed between methyl ethyl ketone and the ethyl alcohol which comprises azeotropically distilling the ethyl alcohol-ketone mixture in the presence of benzene which has the effect of forming a minimum boiling azeotrope with the ethyl alcohol whereby it may be separated from the methyl ethyl ketone as an azeotropic overhead leaving said methyl ethyl ketone in the distillation residue.

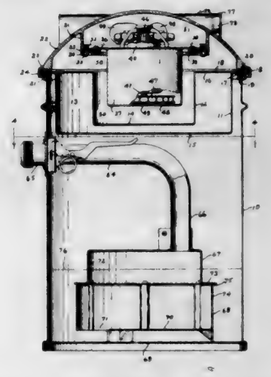
2,528,762
RUN REPAIRING NEEDLE
Edmond Lalanne and Pierre Grandjean, Marseilles, France
Application January 3, 1946, Serial No. 638,756
7 Claims. (Cl. 66—117)



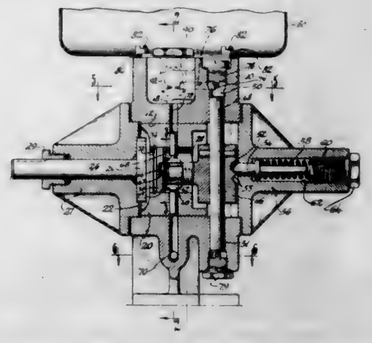
1. A needle for making and repairing knitted material comprising a tubular body having a curved closed end and an aperture adjacent said end having one side inclined inwardly toward said closed end and toward the longitudinal axis of said body, and the other side constituting a curved hook opening away from said closed end, and an oscillating member located inside said body having a first projection adapted to protrude in the curve of said hook, an inclined portion adapted to project beyond the inclined side of said aperture, and a second projection between said first projection and said inclined portion adapted to obturate the opening and outwardly overlie said hook.

2,528,763
VACUUM CLEANING MACHINE
Rollen G. Leonard, Indianapolis, Ind., assignor to Continental Car-Na-Var Corporation, Brazil, Ind., a corporation of Indiana
Application June 16, 1948, Serial No. 33,361
12 Claims. (Cl. 183—13)

1. A vacuum cleaning machine comprising in combination, a tank having three compartments, namely a pressure compartment, a vacuum compartment, and a major tank compartment adapted to hold water; vacuum producing means interposed between said vacuum and pressure compartments whereby said vacuum compartment is evacuated and content thereof discharged into said pressure compartment; single valve means for selectively interconnecting said vacuum and said pressure compartments with said tank compartment and, in reverse order, interconnecting said vacuum and said pressure compartments to the atmosphere, whereby said tank compartment may selectively be evacuated or pressurized, a water and air discharge head in said tank compartment adjacent its floor; a conduit interconnecting said head with the atmosphere; and means carried by said head normally submerged in said water to retain a sufficient volume of water to water seal said conduit in said tank compartment following a tank compartment pressurization to that point to have air discharging from the conduit to the atmosphere, whereby subsequent air inflow through the conduit from the atmosphere will be required to pass through an appreciable head of water.



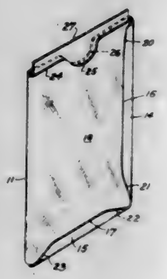
2,528,764
REVERSIBLE FLOW ROTARY PUMP
John T. Leonard, Evanston, Ill.
Application April 6, 1946, Serial No. 660,055
8 Claims. (Cl. 184—26)



4. A rotary reversible flow lubricant pump comprising a body provided with a pair of inlet passageways, means connecting said inlet passageways to a source of lubricant, a check valve in each of said passageways operable to close the passageway when the lubricant therein tends to flow toward the reservoir, a rotor in said pump body, said rotor having a plurality of cylinders formed therein, the outer ends of each of said cylinders being in communication with each of said passageways during slightly less than one-half of a revolution of the rotor, plungers reciprocable in said cylinders, a normally station-

ary member engageable by said plungers and located eccentrically with respect to the axis of rotation of the motor, means for holding said plungers in engagement with said member, lubricant pressure operated means for changing the eccentricity of the member through an angle of substantially 180°, said last named means being operable when the discharge pressure in one of said passageways exceeds a predetermined value, and detent means to hold said lubricant pressure operated means in position until the pressure in the other of said passageways attains said predetermined value.

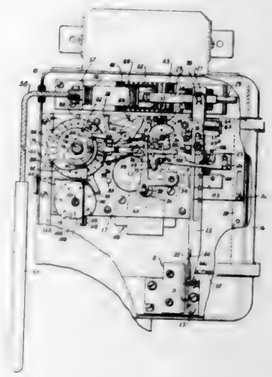
2,528,765
POCKET SKETCHING SET
John E. Lindberg, Jr., Redwood City, Calif.
Application January 4, 1947, Serial No. 720,252
7 Claims. (Cl. 35—26)



5. A pocket sketching set including a single sheet of transparent plastic folded to provide an envelope open at one edge, and having cut-out thumb-holes along said edge, the two mutually perpendicular edges other than said open edge and the edge where the fold is made, being folded around to close said envelope and provide holding means on one of the outside faces thereof, the corners of said folded over edges being cut away in a curve, said face being flat, the opposite face of said envelope being bowed in at the center toward said flat face, and a removable separator of transparent plastic, slightly longer than said envelope, but narrow enough to fit within it, having thereon guiding edges and cut-out portions of various shapes of use in sketching, adapted to be aligned and retained slidably by either folded-over edge.

2,528,766
TIME CONTROLLED ACTUATOR
Brooks Marcellus, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application October 10, 1945, Serial No. 621,503
26 Claims. (Cl. 161—1)

1. In a time controlled actuator, the combination of a control device having two control positions, a rotary timing means operable during its rotation to cause movement of said device alternately from one position to the other, a timing motor operable continuously, a ratchet clutch for driving said timing means including a pawl disengageable from the teeth of the ratchet and continuously reciprocated by said motor to advance the ratchet step by step, an auxiliary control device for detecting conditional deviations from a predetermined value, a magnet controlling the engagement and disengagement of said pawl with said ratchet, and means controlled by the joint action of said two control

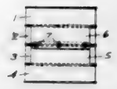


devices to govern the energization and deenergization of said magnet.

2,528,767
PROCESS OF DRYING INORGANIC OXIDE GELS
Milton M. Marisic, Northfield, Ill., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 14, 1945, Serial No. 616,339
6 Claims. (Cl. 252—448)

1. A process for drying inorganic oxide hydrogel pellets which are bounded principally by smooth surfaces formed at gelation and which have not previously been dried to any substantial extent, which comprises immersing said pellets in a water immiscible liquid, heating the said liquid to the azeotropic distillation temperature of the aqueous phase of the gel and said liquid, continuously heating said liquid at said temperature for a period of time sufficient to evaporate at least about 50% of the aqueous phase of said gel, but less than that which causes maximum shrinkage of the gel, washing the partially dried gel with water to remove water soluble impurities, and thereafter completing the drying of said pellets to the desired extent, whereby the tendency of said pellets to adhere and agglomerate is substantially reduced.

2,528,768
CUSHION-MAT HASSOCK
Frank Marsh, Farrell, Pa.
Application July 23, 1946, Serial No. 685,679
2 Claims. (Cl. 155—45)



1. In a foldable mat, a plurality of cushioned sections, hookless fastener means hingedly connecting the sections so that said sections can be folded into a pile one above the other to form a hassock, and snap fastener means on the end sections for holding all of the sections in a compact pile.

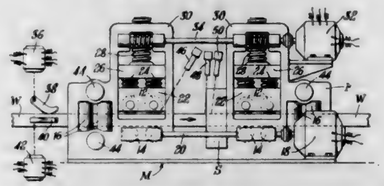
2,528,769
REACTION PRODUCT OF HALOALKYLTHIOPHENES AND HYDROXYARYL COMPOUNDS
John H. McCracken, Corpus Christi, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application May 28, 1947, Serial No. 751,123
12 Claims. (Cl. 252—48.2)

7. A mineral oil containing a minor proportion, sufficient to stabilize the oil against discoloration and oxidation, of a composition of matter having the formula:

A—B

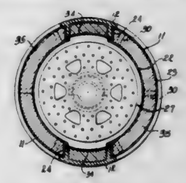
wherein A is a radical selected from the group consisting of 2-thenyl and an alkyl-substituted 2-thenyl in which the alkyl substituent is less than about 6 carbon atoms in length, and B is a radical selected from the group consisting of hydroxy-phenyl, hydroxy-naphthyl, an alkyl-substituted hydroxy-phenyl and an alkyl-substituted hydroxy-naphthyl, in which the alkyl substituents are less than about 6 carbon atoms in length.

2,528,770
AUTOMATIC SCARFING MACHINE
Edward Meincke, Summit, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application May 23, 1946, Serial No. 671,711
5 Claims. (Cl. 266—23)



1. A fully automatic scarfing machine for thermochemically desurfacing work consisting of a series of elongated ferrous metal bodies which are at a hot rolling temperature, comprising, in combination, a frame adapted to be disposed in a work-conveyor line, front and rear sets of rolls mounted in said frame, a roll driving motor connected to said rolls to drive them at a rapid rate, supply circuit means for energizing said motor including a motor-speed reducing resistor, work scarfing blowpipe heads mounted between the front and rear sets of rolls, heat-sensitive work detecting means comprising at least one hot-body detector provided with an optical system focused on the path of the work between the front set of rolls and the scarfing heads, means responsive to said work detecting means for inserting said resistor in circuit with the motor to reduce the speed thereof, means including a valve for supplying preheat gas to said heads, means including a valve for supplying cutting oxygen to said heads, means including a valve for supplying adjuvant powder to said heads, control means responsive to said work detecting means for automatically opening the preheat gas valve, cutting oxygen valve and adjuvant powder valve as the body approaches the heads, compressed fluid means including a valve for closing the heads around and in contact with the moving work when such valve is open, means responsive to said work detecting means for automatically closing said adjuvant powder valve and opening said fluid valve as the body enters said heads without stopping, whereby the heads are automatically moved into contact with the moving body which is thermochemically scarfed as it is moved at reduced speed longitudinally through said heads by said rolls until the trailing end of the body leaves the field of said heat-sensitive work detecting means, and means responsive to said work detecting means for automatically closing the preheat gas valve and the cutting oxygen valve and shorting out said motor-speed reducing resistor when such trailing end of the body finally leaves such field of said hot-body detector, thereby restoring said motor to its higher speed.

2,528,771
SECTIONAL CASING FOR FLUID HEATERS
Bernard E. Mustee, Cleveland, Ohio, assignor to Emil L. Mustee, Cleveland, Ohio
Application June 14, 1944, Serial No. 540,172
2 Claims. (Cl. 220—4)

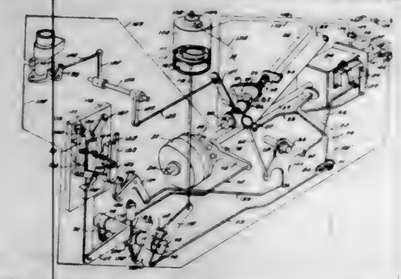


1. A housing unit for a heater, comprising oppositely facing similarly dimensioned end parts, rigid rib means rigidly connecting corresponding peripheral portions of said end parts to space and support the end parts from one another, said end parts and rib means comprising a frame for said housing unit, and defining at least an opening into said housing, at least a resilient panel member to close the opening, said at least a panel member and said rib means comprising an annular wall enclosing the housing unit between said end parts, said rib means having first and second annularly spaced radially extending vertical walls and first and second annularly spaced laterally extending vertical walls, said first radial and first lateral vertical walls meeting in acute angular relationship and defining a first panel retaining notch, said second radial and second lateral vertical walls meeting in acute angular relationship and defining a second panel retaining notch, said resilient panel having first and second lateral edges with means thereon complementarily fitting in gas-seal engagement with said first and second panel retaining notches respectively and with the inner edge of the first and second radially extending vertical walls, said resilient panel being wider than the distance between said first and second panel retaining notches when the panel is in an inoperative position, whereby said first and second lateral edges of the panel will be tightly pressed into engagement with said first and second retaining notches when the panel is in an operative position.

2,528,772
TRANSMISSION CONTROL
Carl A. Neracher, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 30, 1946, Serial No. 694,084
13 Claims. (Cl. 192—3.5)

1. In a motor vehicle having a variable speed ratio transmission, an element associated with said transmission and adapted to change the transmission speed ratio drive when moved, automatic means operable to move said element,

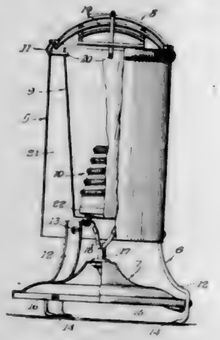
a dashpot operable to retard the movement of said element by said automatic means, and manual means to move said element independently of retarding action by said dashpot.



2,528,773
MINERAL OIL COMPOSITION
Henry D. Norris, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application May 16, 1947, Serial No. 748,669
11 Claims. (Cl. 252—48.6)

1. A mineral lubricating oil containing a minor proportion sufficient to improve the stability thereof, of a product obtained from the reaction involving from about one to two mols of a thenylchloride type of compound with about one mol of a sulphur-containing compound of the group consisting of alkali and alkaline earth metal salts of polythiocarbonic acid esters, alkali and alkaline earth metal sulphides and alkali and alkaline earth metal mercaptides.

2,528,774
CIRCULATING ELECTRIC HEATER
Anthony Oberholtz, Los Angeles, and George J. Moeller, Altadena, Calif.; said Moeller assignor to said Oberholtz
Application June 3, 1947, Serial No. 752,012
10 Claims. (Cl. 219—38)

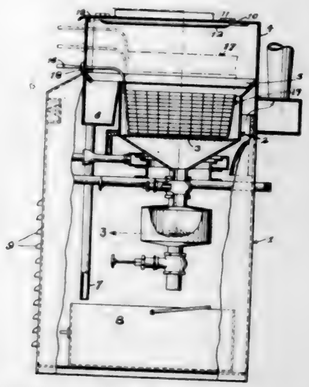


1. A heater comprising an imperforate outer housing tube, an imperforate inner tube within the housing tube centrally thereof and outwardly and upwardly flared to form an annular chamber between the tubes, at least three legs connected to the housing tube to support the heater, a transversely disposed base plate connected to intermediate portions of the legs to provide a substantially uninterrupted space in direct communication with said annular chamber for conduction of air therethrough to cool the housing tube, a grill over the housing tube and having portions connected to and suspending the inner tube, and a heating element carried by the inner tube in and adjacent the bottom thereof.

2,528,775
HOLE LOCATER
Thomas V. Ogden, Santa Ana, Calif.
Application March 22, 1947, Serial No. 736,455
1 Claim. (Cl. 33—180)

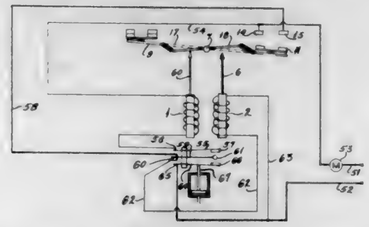
A hole locater comprising a pair of parallel flat arms having aligned open-ended notches in the ends thereof which are aligned in a direction at right angles to the planes of the arms, the ends of the arms having extensions extending towards each other at right angles to the planes of the arms, one of the extensions having side flanges which slidably embrace the sides of the other extension whereby when one arm is adjusted relative to the other the notches will be maintained in alignment, one of the extensions being slotted longitudinally, a bolt on the other extension extending through the slot and a nut on the bolt for clamping the extensions together to hold the arms in adjusted position relative to each other.

2,528,776
DEEP FAT FRYING APPARATUS
Phillip M. Pappas, Houston, Tex.
Application January 13, 1947, Serial No. 721,747
1 Claim. (Cl. 99—411)



In an apparatus of the class described, the combination with a cabinet, of a hood fitted on said cabinet, said hood provided with a reinforced portion on its front, said reinforced portion provided with a vertical opening opened at its top, said hood provided with a horizontal slot near the middle of said opening and with a horizontal slot near the top of said opening, said slots opening at their outer ends upon said vertical opening, a movable lid on said hood and normally closing the upper end of said vertical opening, a basket in said cabinet, said basket provided with a handle extending through said vertical opening, said handle being adapted to rest in said horizontal slots, said handle provided outside of said hood with a fixed flange, said flange normally bearing against the outer face of said hood, and said fixed flange when engaging the outer face of said hood contiguous to either one of said horizontal slots adapted to hold the basket in a steady horizontal position within the hood, substantially as shown and described.

2,528,777
ELECTROMAGNETIC SWITCHING MEANS
Lawrence M. Persons, Chesterfield, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application August 21, 1946, Serial No. 692,103
5 Claims. (Cl. 175—375)

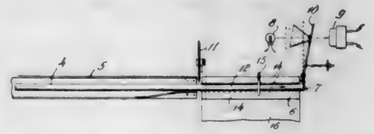


1. A control circuit for electrical apparatus, comprising, a two coil relay having a movable contact for bridging a pair of stationary contacts, one of said coils when energized actuating said movable contact into and the other out of engagement with said stationary contacts, a lead extending from one of said stationary contacts to said apparatus, a lead extending from source to the other stationary contact, one coil of the relay being permanently connected in series in said last named lead, and a switch arranged when closed to short circuit said relay coil, said switch controlling the energization of the second relay coil.

2,528,778
SEALED TOBACCO PACKAGE
Thomas E. Piazze, Mount Vernon, Ohio, assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio, a corporation of Delaware
Application March 1, 1945, Serial No. 580,445
1 Claim. (Cl. 206—48.5)

As a new article of manufacture, a sealed packet containing a granular material such as tobacco, said packet serving as a storage pouch for the granular material after the seal is broken, said article comprising, in combination, a flat tube having a length $3x$ formed of pliable sheet material the inner surface of which is heat-sealable together, said tube being transversely sealed along one of its open ends and being transversely sealed along a line inwardly spaced from said one end a distance of approximately x, the width of each of said transverse seals being only a small fraction of the dimension x whereby the opposing walls of said tube are not sealed together for the greater portion of the distance between said one end and said inwardly spaced line, a granular material filling said tube beyond said inwardly spaced line for a distance of approximately x, said granular material being confined to this space, the tube being transversely sealed along a line on the opposite side of said filling from said inwardly spaced line, and the flap portions of said tube extending on opposite sides of said filling being folded therearound.

2,528,779
CUTOFF MACHINE
Ernest F. Pinney, Glen Cove, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 26, 1945, Serial No. 618,770
3 Claims. (Cl. 164—60)

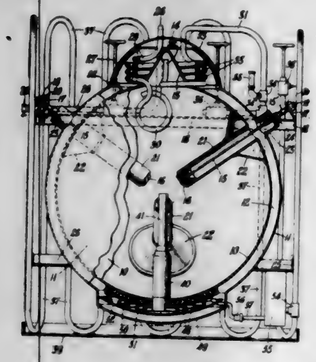


1. A cut-off device for severing a continuously extruded rod into short lengths comprising a support means over which said extruded rod passes, a plurality of rod receiving channels arranged axially about a shaft which shaft is aligned parallel to the travel of said rod, with one such channel in registry with the said support means, a trigger disposed at the extremity of said registered channel and arranged to be upset by the extruded rod when it is run home in said channel, cut-off means normally positioned outside said registered channel and swingably mounted to be moved across the rod-entry end of said channel, means actuated by said trigger to swing said cut-off means across the said channel and sever the rod, means actuated by said trigger to rotate said shaft and bring another channel into register.

2,528,780
APPARATUS FOR DISPENSING LIQUEFIED GASES
Albert L. Preston, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application January 31, 1946, Serial No. 644,606
10 Claims. (Cl. 62—1)

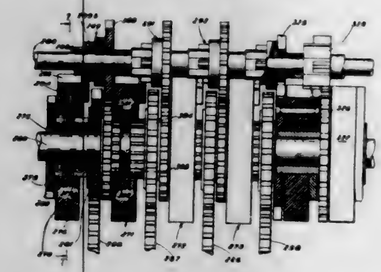
5. In a cold converter having a liquefied gas holding inner vessel surrounded by and supported within an insulating jacket, a dome-like projection at the upper part of said inner vessel, and a gas discharge line having a portion with an end opening located within said projection, which portion extends downwardly in said projection and then out through the inner vessel wall and said insulating jacket, said discharge line end

opening being located near the upper middle part of said projection, and said projection being proportioned as to height and base diameter so that



the converter may be tilted up to at least 45° from the vertical without the normally full liquid level reaching said opening.

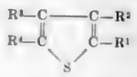
2,528,781
TENS-TRANSFER DEVICE
Frederick O. Rast, Chicago, Ill., assignor to Commercial Controls Corporation, a corporation of Delaware
Original application April 15, 1944, Serial No. 531,232. Divided and this application February 24, 1945, Serial No. 579,550
7 Claims. (Cl. 235—133)



5. An indicating register comprising, in combination, a shaft, a units indicator wheel and a tens indicator wheel rotatably mounted on said shaft, a pair of meshing differential pinions rotatably mounted on said tens wheel, said differential pinions being offset axially with respect to each other, a pair of sun gears mounted on said shaft on opposite sides of said tens wheel, said sun gears each meshing with the offset portion of one of said pinions, gear means for feeding units into said units wheel, transfer gear means actuated by said units wheel, said last-mentioned gear means actuating one of said sun gears, and tens input gear means actuating the other of said sun gears whereby said tens wheel may be driven by said transfer gear means, said tens wheel input gear means, or by both said transfer gear means and said tens wheel input gear means simultaneously.

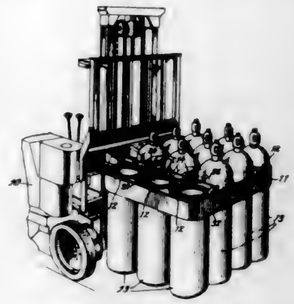
2,528,782
LUBRICANT
Orland M. Reiff and Harry J. Andress, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application February 8, 1946, Serial No. 646,505
9 Claims. (Cl. 252—45)

1. A mineral lubricating oil containing a minor proportion, sufficient to stabilize said oil fraction against the deleterious effects of oxidation, of an anti-oxidant material the essential anti-oxidizing ingredient of which is a hydrocarbon wax-substituted thiophene represented by the general formula:



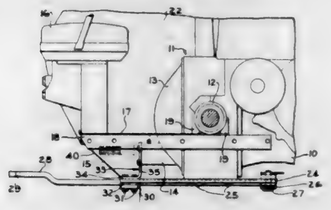
wherein R^1, R^2, R^3 and R^4 are selected from the group consisting of hydrogen and alkyl and at least one of said R groups is a hydrocarbon wax group.

2,528,783
APPARATUS FOR TRANSPORTING CYLINDRICAL CONTAINERS AND THE LIKE
Howard A. Reinhart, San Francisco, Calif., and Arthur M. Selvey, Pittsburgh, Pa.; said Reinhart assignor, by mesne assignments, to Tray-Hart, Inc., Jersey City, N. J., a corporation of New Jersey
Application October 19, 1946, Serial No. 704,518
9 Claims. (Cl. 214—65)



1. An apparatus for handling and transporting gas bottles and like cylindrical containers, comprising a reticulated horizontally extending frame adapted and arranged to be carried by a load elevating means and raised and lowered over a nested group of cylindrical containers, said reticulated frame having a plurality of closely spaced contiguous compartments of rectangular shape for the individual reception of said cylindrical containers when said frame is lowered thereover, a wedging means in the contiguous corners of said compartments operable upon upward movement of said frame relative to a cylindrical container in any one of said compartments to engage and secure such cylindrical container for transportation with said frame, and a control means common to all of said wedging means operable from a remote point and independently of movement of said frame for rendering said wedging means inoperative to retain a cylindrical container in any of said compartments.

2,528,784
VEHICLE DRAWBAR
Barrett G. Rich, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application August 21, 1948, Serial No. 45,531
8 Claims. (Cl. 180—53)



1. For a tractor having a longitudinal body from which axle housings extend laterally outwardly at opposite sides, each housing having a mounting surface above the general level of the bottom of the body and the body including a generally centrally disposed rear power take-off housing from which a power take-off shaft projects rearwardly at a level between the level of the axle housing mounting surfaces and the level of the bottom of the body: a rear end construction, comprising a pair of supports spaced laterally apart and secured to and projecting rearwardly from the axle housing mounting surfaces to straddle the power take-off shaft; a transverse plate disposed above the power take-off shaft and rigidly cross-connecting said supports; a pair of hitch bars spaced laterally apart and secured to and extending rearwardly from the bottom of the body below the power take-off shaft; a member extending rearwardly between the bars and below the power take-off shaft; a transverse member interconnecting the rear ends of the bars below and sustaining the draft member; an angle bar having a transverse horizontal flange cross-connecting the rear ends of the bars and lying above the draft member and below the power take-off shaft, and a transverse vertical flange lying across and secured to the power take-off housing and being formed to expose the power take-off shaft; and vertical, longitudinal gusset members spaced apart laterally between said horizontal flange and the aforesaid transverse plate, each having a plurality of edges rigidly secured respectively to the angle bar flanges and to said transverse plate.

2,528,785
MINERAL OIL COMPOSITIONS CONTAINING ALKYL AMINOBENZOTHIOPHENES
Frederick P. Richter and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 26, 1947, Serial No. 776,426
5 Claims. (Cl. 252—47)

1. A mineral lubricating oil containing a minor proportion, sufficient to improve the stability of said oil against oxidation, of a material selected from the group consisting of alkyl 2-monoaminodibenzothiophenes, alkyl 8-monoaminodibenzothiophenes, and alkyl 2,8-diaminodibenzothiophenes, in which the alkyl radicals contain not less than four but not more than twenty-four carbon atoms and are connected to carbon atoms of the dibenzothiophene nucleus.

2,528,786
INSECT SCREEN FOR MOTOR CAR WINDOWS
Lee C. Roberts, Kansas City, Mo.
Application November 7, 1947, Serial No. 784,733
8 Claims. (Cl. 160—40)

3. In an automobile door having a window opening and a window pivotally mounted in said opening on a substantially vertical axis spaced from the forward end of said opening; a screen mounted in said opening forwardly of said axis, there being a space between said window in open position and said screen, said screen having an outwardly directed wing pivotally mounted thereon engaging said window to close said space.

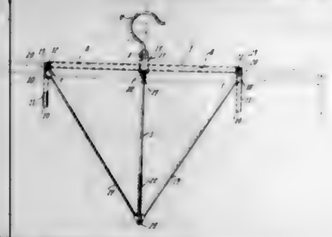
2,528,787
PROTECTION OF METALS FROM CORROSION
Charles T. Roland, Pittsburgh, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application September 8, 1947, Serial No. 772,894
10 Claims. (Cl. 117—127)

1. The process of treating base metal articles of the group consisting of ferrous metals, copper, zinc, and their alloys, for improving their resistance to atmospheric corrosion, preparatory to applying a nonferrous finish which comprises treating the articles to render substantially grease-free an exterior surface to be protected, applying to the grease-free surface an aqueous solution containing at least one hundred parts per million by weight of at least one coating metal selected from the group consisting of calcium, strontium, barium, zinc, cadmium, nickel, cobalt, and manganese, the metal being present in the form of a water-soluble salt, and at least one molecularly dehydrated phosphate, the weight ratio of the P_2O_5 content of the molecularly dehydrated phosphate to the coating metal being between 0.03:1 and 7:1, the pH value of the solution being between 3 and 9 and such that an amorphous coating metal phosphate film is deposited on the base metal without visible attack on the base metal surface, and thereafter drying the articles so as to provide a dry finish-receptive exterior surface having a substantially amorphous film thereover, the film being characterized by a good quality of bondability with nonferrous finishes.

2,528,788
SKIRT HANGER
John V. Rowan, University City, Mo., assignor to Lee-Rowan Company, St. Louis, Mo., a corporation of Missouri
Application April 16, 1949, Serial No. 87,905
3 Claims. (Cl. 223—95)

1. A skirt hanger comprising a vertical, spring-controlled suspension member and a hollow horizontal member slidably engaged therewith, spring-controlled extension arms within said horizontal member and provided with skirt-gripping elements, pivoted connecting means between said extension arms and said suspension member, and a spring-controlled lock including an operat-

ing lever engaged with said suspension member, all of said parts being simultaneously operable



upon sliding movement of said suspension member.

2,528,789

PRODUCTION OF BENZOPHENONE

Alexander N. Sachanen, Woodbury, and Philip D. Caesar, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application March 1, 1946, Serial No. 651,428
2 Claims. (Cl. 260—591)

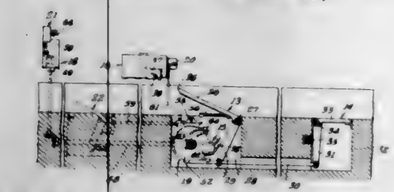
1. A process for the production of benzophenone, which comprises contacting benzene with a benzoyl halide, in the absence of a catalyst, at a temperature falling within the range varying between 400° F. and 700° F., for a period of time varying between about three hours and about five minutes, the lower times being used with the higher temperatures and the higher times being used with the lower temperatures, and at pressures in excess of 200 pounds per square inch, whereby the yields of benzophenone are at least about 40 per cent of the theoretical.

2,528,790

AUTO CHECKING AND COUNTING MEANS FOR PARKING AREAS

Lester G. Scherer, Los Angeles, Calif.

Application March 29, 1947, Serial No. 738,240
5 Claims. (Cl. 235—99)



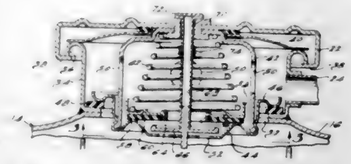
5. In a parking area checking means of the character described, a vehicle lane connected with said area, a movable barrier in the surface of said lane and having a normally elevated edge presented to a wheel of an oncoming vehicle to arrest the progress of the same, means controlled by the operator of the vehicle to release said barrier, means upon release thereof to move the barrier to a low position with respect to the lane surface to clear the path of movement of said vehicle, cumulative means for registering each such movement of the barrier, a movable plate in the surface of said lane beyond the barrier and mechanically connected to the latter, said movable plate having a low position with respect to the lane surface when the barrier is elevated and a raised position when the barrier is low with respect to said lane surface, the oncoming vehicle moving the plate to low position and thereby restoring the barrier to elevated position, a second vehicle lane, a normally elevated movable plate in the latter lane and adapted to be moved to a low position by a vehicle moving in said lane, meter means for registering the difference between the number of vehicles passing through the lanes to thereby register the number of vehicles remaining in the parking area, means controlled by the barrier for additively registering on said meter means, and an operative connection between the movable plate in the exit lane and the latter means for subtractively registering on said meter.

2,528,791

PRESSURE CONTROL APPARATUS FOR ENGINE COOLING SYSTEMS

Robert W. Scoville, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application August 7, 1947, Serial No. 767,294
10 Claims. (Cl. 123—174)



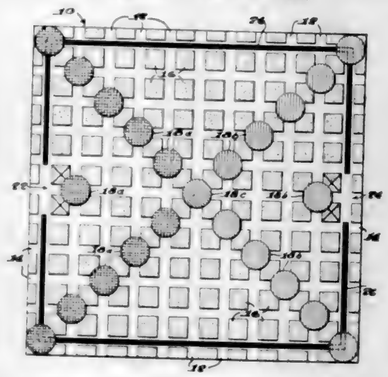
9. A pressure control apparatus for the cooling system of a liquid cooled internal combustion engine having a heat exchange radiator provided with an inlet opening associated therewith, said apparatus being adapted to be carried by a cap for said radiator inlet opening and comprising means forming an atmospheric vent for said system under normal engine operating conditions, a pressure responsive valve adapted to be moved to a closed position when said liquid boils to thereby seal said vent and manually operable means adapted to be operated while said cap is positioned in covering relation with respect to said inlet opening, said manually operable means being adapted when operated to vent the system to the atmosphere.

2,528,792

GROOVED GAME BOARD FOR SPHERICAL PLAY PIECES

Ralph H. Seaman, Auburndale, Mass.

Application April 29, 1947, Serial No. 744,568
9 Claims. (Cl. 273—131)



1. A game apparatus comprising a game board and a plurality of spherical game pieces, said game board having equally spaced intersecting longitudinal and transverse channels at right angles to each other forming raised square portions providing sockets at the intersections of said channels for said spherical game pieces, the spacing between adjacent channels being related to the diameter of the game pieces so that game pieces supported in adjacent sockets will be in substantial peripheral engagement with each other.

2,528,793

COTTON FELT AND METHOD OF MAKING THE SAME

Horace A. Secrist, Dedham, Mass., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts

Application January 26, 1946, Serial No. 643,799
14 Claims. (Cl. 8—117)

1. The method of felting cotton fibers of textile length to form a coherent unwoven textile material which comprises subjecting a body comprising said fibers intermingled in dry-assembled sheet form to the action of a liquid causticizing agent for cellulose at low temperature while supporting said body by means of said liquid agent substantially without tensional stress and surface frictional restraint, thereby causing said fibers to intercurl, kink, and contract said body in area, and removing said causticizing agent from the fibers without substantially stretching said body, thereby fixing the fibers thereof in said intercurled and kinked condition and said body in area-contracted condition.

2,528,794

ATTACHMENT FOR SUSPENDING CLOTHING IN AUTOMOBILE BODIES

Carl Seidler, Rochester, N. Y., assignor, by mesne assignments, to Hang-All Corporation, a corporation of New Jersey

Application August 20, 1946, Serial No. 691,679
3 Claims. (Cl. 224—42.1)

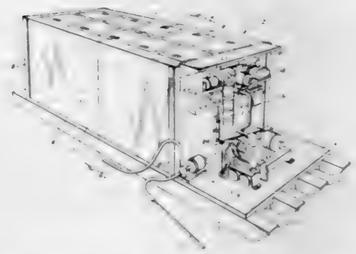
1. A clothes rod attachment for automobiles, comprising a rod having aligned sections and adapted to extend within an automobile body from side to side and below the top thereof, said rod having resilient opposite ends turned angularly to said rod, brackets on said rod ends, bracket portions carried by said brackets for gripping automobile body parts located on opposite walls of the automobile body, means adjusting the position of said brackets in the longitudinal direction of the rod ends, means adjusting the position of said brackets transversely to the longitudinal direction of the rod ends, means clamping said brackets in their adjusted positions upon the rod ends, and means moving the aligned sections of said rod to press said bracket portions into firm gripping engagement with the automobile body parts located on opposite walls of the automobile body and thereby hold the rod extended from side to side of the automobile body.

2,528,795

SELF-CONTAINED PORTABLE ICE PLANT

Ellsworth E. Shontz, Des Moines, Iowa, assignor to Hugo D. Polachek, Des Moines, Iowa

Application April 23, 1949, Serial No. 89,300
1 Claim. (Cl. 62—105)



In a portable ice plant, a platform, skid members secured to the bottom of said platform; said skid members being spaced parallel to and equidistant from each other with the outside two skid members having their outside top edges coincident with the respective outside bottom edges of said platform, a body portion open at the top, comprising, an outer shell, a liquid tight interior, and insulation between the outer shell and interior; said body portion being shorter than said platform and mounted on it, rectangular cans open at one end in said body portion, lids for each pair of said cans, brine surrounding said cans, a means for circulating said brine, a refrigerating means for cooling said brine, an air compressor, tubes leading from said air compressor to the bottom interior of said cans, a water pump, and a conduit for operatively connecting the inside of said cans to said pump at times.

2,528,796

VALVE MECHANISM

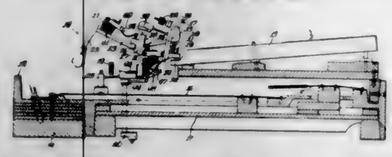
Robert F. Smith, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 29, 1944, Serial No. 570,299
1 Claim. (Cl. 277—45)

A valve mechanism including a valve seat and a port associated therewith, a resiliently yieldable member engageable with said valve seat, a relatively rigid member normally engaging said yieldable member, said yieldable member having a portion of tapering reduced cross-sectional thickness overhanging said port normally engaged with said rigid member in sealing relation and provided with an opening registering with said port, said rigid member having an aperture for admitting fluid to said reduced portion whereby the latter is deflected out of sealing engagement with the rigid member under influence of a predetermined fluid pressure to provide passage through the aperture and opening in one direction, and a coil spring urging said members into engagement and said yieldable member against said seat, one end of said spring being seated on said relative rigid member and the latter having a plurality of ears integral therewith cooperating with said spring one end for limiting shifting of said spring

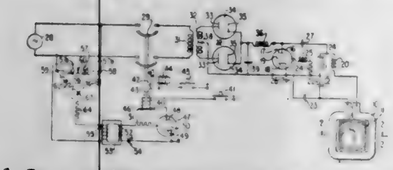
relative to said relative rigid member, said ears being disposed in the space bounded by said spring one end.

2,528,797
PIANO ACTION
Charles Frederick Stein, La Grange, Ill., assignor to Pratt, Read and Company, Inc., Ivoryton, Conn., a corporation of Connecticut
Application July 16, 1948, Serial No. 39,039
8 Claims. (Cl. 84—238)



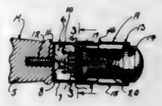
1. An action for a piano having horizontal strings including in combination fixed rail means, a hammer including a butt pivotally mounted on said rail means, said butt including a knuckle and a projecting shoulder portion, a spring secured to said rail means for normally holding said hammer away from said strings, a whip including a pair of angularly disposed members pivotally mounted adjacent the intersection of said members on said rail means, one of said members of said whip engaging a piano key to be actuated thereby, a jack pivotally secured to the other one of said members and including an end engaging the butt of said hammer, a spring tending to hold said jack in a position so that said end engages said knuckle on said hammer butt, and let-off means positioned to be engaged by said jack when said piano key is operated to move said end of said jack away from said knuckle to a position in engagement with said shoulder portion of said hammer butt.

2,528,798
CONTROL ARRANGEMENT FOR A HIGH-FREQUENCY HEATING DEVICE
Herbert F. Storm, Milwaukee, Wis., assignor to Sunbeam Corporation, a corporation of Illinois
Application March 7, 1946, Serial No. 652,756
16 Claims. (Cl. 219—47)



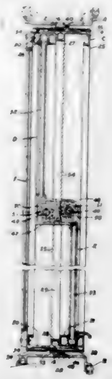
1. In a control arrangement for a high frequency heating device of the type for soldering two metal members together by melting a length of solder which has been placed adjacent the members to be soldered, comprising in combination, means for generating high frequency oscillations, a heating coil connected to said means for generating high frequency oscillations and adapted to be inductively coupled with said length of solder, a source of alternating current potential, a control device for controlling the energization of said means for generating high frequency oscillations from said source, and means for causing only a low initial current to flow in said heating coil following operation of said control device to energize said means for generating high frequency oscillations by operating said control device so as to energize said means for generating high frequency oscillations at a predetermined instant with reference to the instantaneous voltage of said alternating current potential whereby any movement of said length of solder due to the inductive effect of said heating coil is eliminated.

2,528,799
ROD RETRIEVER ASSEMBLY
John Gordon Strong, Milwaukee, Wis.
Application June 3, 1948, Serial No. 30,940
4 Claims. (Cl. 9—9)



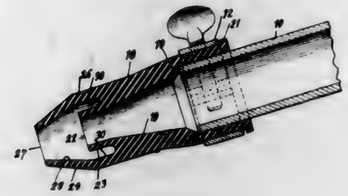
1. An article retrieving device comprising a cap for association with the article, a case detachably fitted in the cap, a spool float detachably fitted in the case, a line wound upon the spool float having one end secured to the case, a spring in said case for ejecting the spool float from the case, and a renewable, soluble tablet carried by the spool and engaging the case for holding the spool in the case against action of the spring.

2,528,800
WINDOW
Robert E. Sturman, Minneapolis, Minn.
Application October 13, 1945, Serial No. 622,227
2 Claims. (Cl. 20—51)



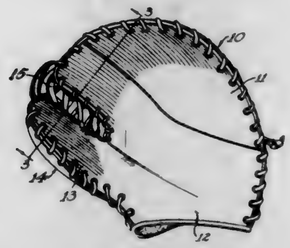
2. In a window of the character described, a window frame, a sash frame arranged in said window frame, pivot means connecting the sash frame to the window frame whereby said sash frame may turn in the window frame to and between two positions approximately a half turn apart, a fixed sealing rib extending around the inside of the window frame, and a sealing member on the sash frame comprising two separate sections extending around the sash frame at opposite sides of the pivot connections and offset oppositely in inward and outward directions with respect to said pivot connections for engaging opposite edges of the fixed sealing rib, said sections being supported for opposite inward and outward movements to accommodate themselves to engagement with the fixed sealing rib in opposite directions as the sash frame is swung to its said two positions, the adjacent ends of the said sealing member sections being notched to clear the said pivot means.

2,528,801
SAND DELIVERY PIPE NOZZLE
Guilford S. Turner, Jr., Chicago, Ill., assignor to Morris B. Brewster Co. Inc., Chicago, Ill., a corporation of Illinois
Application November 18, 1949, Serial No. 128,157
1 Claim. (Cl. 291—46)



A sand pipe nozzle comprising a one-piece tubular body of elastic material having a bore, the inner end of which is adapted for connection to a pipe for delivering sand under air pressure into the bore, the body having an integral inner cylindrical wall at the outer end of the bore, and an outer integral cylindrical wall radially spaced from and adjacent the outer end of the inner cylindrical wall to provide an annular channel between the inner and outer cylindrical walls, the body being provided with an outwardly tapered integral extension from the outer cylindrical wall terminating in an outlet outwardly beyond the outer end of the inner cylindrical wall, the extension forming a tapered portion which is expansible by pressure developed in the extension by fluid from the bore.

2,528,802
BASEBALL MITT
Archibald J. Turner, Chicago, Ill., assignor to Wilson Athletic Goods Mfg. Co., Inc., Chicago, Ill., a corporation of Delaware
Application February 21, 1950, Serial No. 145,470
3 Claims. (Cl. 2—19)

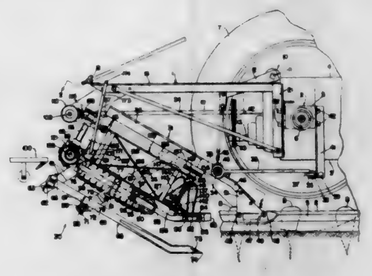


1. A baseball mitt having a body section arranged to extend across a plurality of the fingers of the wearer, with the leather facing of the body section comprising edge portions of the leather stitched together to form a flaring ball receiving pocket, with one stitched seam portion extending substantially parallel with the edge of the body section at the thumb side of the mitt toward about the center of the body section and with a second stitched seam portion extending at a substantial angle to said first-named stitched seam portion toward a point at the edge of the mitt at a substantial distance from the wrist at the little finger side of the mitt.

2,528,803
PREPARATION OF METALLIC SOAPS
Gilbert G. Unkefer, Cleveland, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application August 1, 1947, Serial No. 765,629
6 Claims. (Cl. 260—97.5)

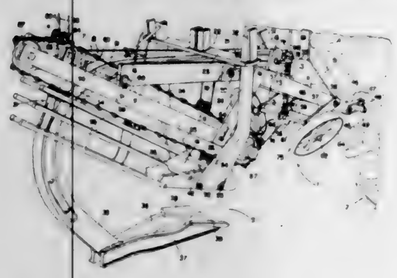
1. In the manufacture of compounds of metals of the class consisting of manganese, magnesium and calcium, the steps of reacting together in the temperature range from approximately 100° C. to approximately 160° C. the metal in metallic state and a high molecular weight, organic, mono-carboxylic acid of the class consisting of aliphatic, alicyclic, rosin and tall oil acids having from 8 to 22 carbon atoms in the molecule, the metal being present in excess of the amount required to react with said acid and the reaction being carried out in the presence of cooperating catalysts, one thereof essentially consisting of from ½% to 5% by weight of an aliphatic alcohol having from 1 to 10 carbon atoms in the molecule, and the other thereof essentially consisting of from ½% to 5% of a low molecular weight organic acid of the class consisting of formic, acetic, propionic, chloro-propionic, oxalic, citric and tartaric acids, percentage being based on the weight of said high molecular weight organic acid.

2,528,804
BEET HARVESTER
Claude W. Walz and Robert D. Griff, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 12, 1945, Serial No. 577,555
16 Claims. (Cl. 55—106)



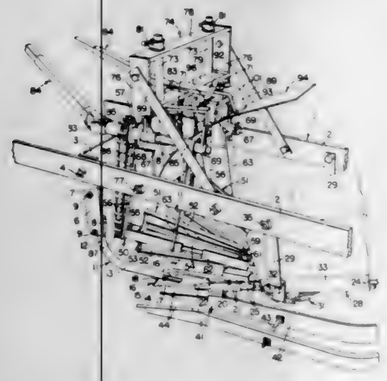
1. In a beet lifter, a pair of generally vertically spaced beet engaging soil penetrating means, said first means comprising means adapted to penetrate the ground and loosen the beet from the surrounding soil, said first means being positioned to operate generally below the major portion of the beet, and said second means also adapted to penetrate the ground and engage the beet substantially simultaneously with the engagement of the beet by said first means, said second means comprising a pair of lifter points mounted generally directly above said first means and having substantially horizontally disposed rearwardly converging portions, the forward ends of which are spaced apart laterally so as to lie in vertical fore and aft extending planes passing laterally outwardly of said lower beet-loosening means and at opposite sides thereof, being thereby arranged to operate on opposite sides of the beet generally below the ground surface and engage the beet to lift the same after it has been loosened by said first means.

2,528,805
BEET HARVESTER
Claude W. Walz and Robert D. Griff, Rock Island, and Howard F. Clausen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 23, 1945, Serial No. 579,380
10 Claims. (Cl. 55—106)



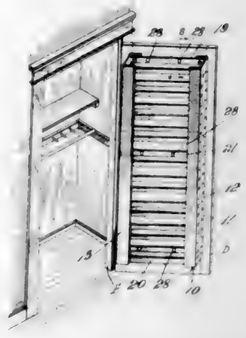
1. In a beet harvester, a mobile supporting means, a pair of beet lifting members carried by said supporting means for lateral shifting movement relative thereto, means serving as a sub-frame to which said beet lifting members are connected, and a pair of guide wheels movably mounted on said sub-frame for generally free vertical oscillation relative thereto ahead of said lifting members so as to cause said guide wheels to guide said lifting members by the position of the beets in the row before the beets are lifted, and means acting against said sub-frame for biasing said guide wheels for downward movement so as to hold said guide wheels on the row of beets being harvested.

2,528,806
BEET HARVESTER
Claude W. Walz and Howard F. Clausen, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 9, 1945, Serial No. 627,683
13 Claims. (Cl. 55—106)



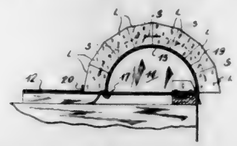
1. In a beet lifter, a frame, two separate ground penetrating lifting means disposed in generally vertically spaced relation, said lifting means including a lower pair of ground-penetrating point members and an upper pair of ground-penetrating point members arranged substantially directly above the lower point members with a laterally extending unobstructed space therebetween, said lower lifting means adapted to loosen the soil about a beet or other crop, and the upper lifting means comprising substantially horizonal forwardly diverging members disposed substantially directly above and spaced apart a distance at their forward ends greater than the spacing between the lower lifting means and serving to not only lift the beet or other crop but also to engage the soil passing between the upper and lower lifting means and hold the soil from being forced upwardly with the beet or other crop, and means carried by said frame for holding said upper and lower lifting means in said vertically spaced relation.

2,528,807
SHELVING
Frank H. Whitney, Providence, R. I.
Application October 16, 1946, Serial No. 703,659
1 Claim. (Cl. 211—136)



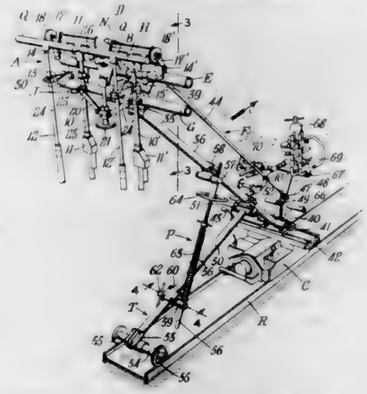
Shelving adapted to be suspended in position comprising two vertically extending channel sections spaced from each other in generally parallel relation with the spaced sides thereof extending toward each other, each section having a plurality of spaced ears deflected from the bridging portion of the stock of the sections and extending upwardly therefrom with the pairs of ears on one section at the same horizontal position as the pairs of ears on the other section, a first shelf adjacent one end of the sections having upstanding front and rear walls and depending flanges at the ends thereof engagable into interlocking relation with one of the pairs of ears on each of said sections, additional means for fastening said shelf to said sections to prevent lifting from said ears, a second shelf adjacent the other ends of said sections having upstanding front and rear walls and depending flanges at the ends thereof engageable into interlocking relation with other pairs of ears on said sections, additional means for fastening said second shelf to said sections to prevent lifting from said ears, a plurality of intermediate shelves each having upstanding front and rear walls and a depending flange at the ends thereof engagable with selected opposite ears on each section to detachably interlock said intermediate shelves and said sections in assembled relation, said first and second shelves having the rear walls thereof provided with spaced openings therein to receive therethrough projections on a wall for suspending said shelving in position.

2,528,808
VARIABLE MOLD FOR FORMING CORK INSULATION
Vincent William Yost, Lynwood, Calif.
Application December 19, 1945, Serial No. 635,978
3 Claims. (Cl. 154—27)



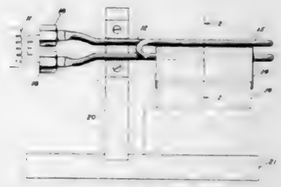
1. A variable mold for forming semi-cylindrical sections of insulation and the like comprising means providing a pair of spaced rails, means for removably holding a plurality of mold formers in alignment between the rails, a flexible mold wall, means for adjusting one edge of the mold wall along the lengths of the rails, said flexible mold wall being adapted to be drawn over the mold formers, means for holding the flexible mold wall in drawn position, and a cross bar slidable on the rails for holding a lag against the back of the flexible mold wall.

2,528,809
BLOWPIPE APPARATUS
Lloyd W. Young, Elizabeth, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application March 20, 1946, Serial No. 655,785
21 Claims. (Cl. 266—4)



1. Blowpipe apparatus comprising, in combination, a heating head; and mechanism for supporting said head in operative relation to the work, said mechanism including a device attachable to a carriage movable relatively to the work, a frame member having one end thereof pivotally connected to said device, means for mounting said heating head adjacent the other end of said frame member, and adjustable means adapted to cooperate with said pivoted frame member to press said heating head toward the work, said adjustable means comprising a rigid trailer member pivotally connected to said frame member at a point between such ends thereof and spaced from the pivotal connection of said frame member to said device, and bracing means connected to both said frame member and said trailer member at points severally spaced from the pivotal connection of said trailer member to said frame member.

2,528,810
INDUCTION HEATING AND WELDING
Harold L. Zimmerman, Milwaukee, and Frederick J. Van Zeeland, West Allis, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 21, 1945, Serial No. 606,380
4 Claims. (Cl. 219—10)



1. The method of heating a longitudinal section of metal in a stationary tubular article by induction heating wherein a single conductor arranged inside and outside the article induces current in opposite directions throughout the length of the article and is disposed closely adjacent the external and internal surface of the section to be heated, which comprises obtaining more concentrated heating effect from the portion of the conductor passing through the article by conducting the current back through the article by way of a single conductor disposed closely adjacent said last mentioned portion in a direction opposite to that passing through the last mentioned portion, whereby the magnetic fields created by said currents within the article itself may oppose each other and the eddy currents induced thereby may be concentrated in the aforesaid section.

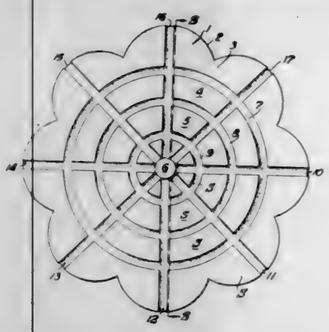
2,528,811
EARPHONE
Charles M. R. Balbi, London, England
Application March 23, 1945, Serial No. 584,272
In Great Britain April 1, 1944
3 Claims. (Cl. 179—107)

3. An earphone adapted to be supported within the pinna of the ear comprising a concavo-convex shell member having its convex surface shaped to conform to at least the major concave portion of the pinna of the ear, said shell member being composed of moulded plastic material and having only part thereof constituting a vibratory diaphragm, and an electro-acoustic transducer disposed at least in part within the interior of said shell member and having a vibratory element connected to said diaphragm for vibrating same.

2,528,812
PAD FOR THE APPLICATION OR REMOVAL OF COSMETICS
Oscar A. Berman, New York, N. Y.
Application June 3, 1949, Serial No. 96,868
1 Claim. (Cl. 15—209)

A pad for the application or removal of cosmetics, said pad comprising a single, integral, double-faced member having an extended series

of substantially circumferential segments, said segments lying in annular formation about the center of said pad, said segments being formed by



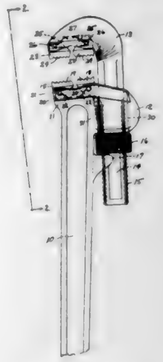
a plurality of fluted lines radiating from the center of said pad and a plurality of fluted circumferential intersecting lines.

2,528,813
METHOD FOR CREATING POWER
Ransom Y. Bovee, Van Nuys, Calif.
Original application April 23, 1943, Serial No. 484,201, now Patent No. 2,421,868, dated June 10, 1947. Divided and this application January 13, 1947, Serial No. 721,713
3 Claims. (Cl. 123—33)

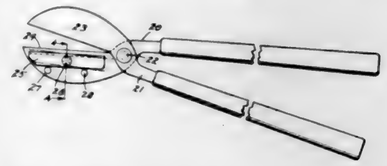
1. The method of providing power thrusts in opposite directions with respect to a common separator; the step of creating a fuel burning gas at fuel ignition temperature and passing it into intimate crosswise relationship with a stream of fuel, and then passing the mixed fuel and gas into a pair of chambers where the mixed fuel and gas is expanded in opposite directions to deliver power.

2,528,814
CONFRONTING WRENCH JAWS EACH HAVING NORMALLY ALIGNED WORK-ENGAGING SECTIONS PIVOTABLE TO V-SHAPE
Hugh N. Boyer, near Canfield, Ohio; Elizabeth M. Boyer executrix of said Hugh N. Boyer, deceased
Application February 12, 1946, Serial No. 647,138
3 Claims. (Cl. 81—91)

1. In a pipe wrench including a handle having a fixed slotted jaw formed thereon and a slotted movable jaw adjustably positioned with respect thereto; said fixed and movable jaws lying in oppositely disposed relation to one another and each having a center section thereof cut away in a flattened V shape, work-engaging secondary jaw sections positioned in engagement with the opposed slotted surfaces of the fixed jaw and the movable jaw, and pin means holding said secondary jaw sections in position in said slots whereby said secondary jaw sections may pivot from parallel end to end alignment when engaged on a flat workpiece to oppositely disposed flattened V shape positions when engaged on a workpiece positioned at right angles thereto.



2,528,815
SHEARS
Hugh N. Boyer, near Canfield, Ohio; Elizabeth M. Boyer executrix of said Hugh N. Boyer, deceased
Application November 26, 1947, Serial No. 788,192
5 Claims. (Cl. 30—173)

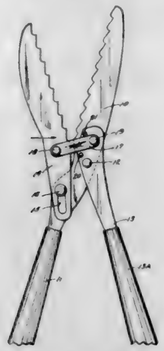


1. In a pruning shear jaw portions consisting of a blade and a combination blade and anvil, the said combination blade and anvil comprising a secondary blade having an anvil pivotally affixed thereto by a pivot midway between its ends, the anvil having a relatively flat surface for supporting a limb to be cut and positioned alongside the said secondary blade and away from the cutting edge thereof and means on said secondary blade for limiting the tilting movement of the pivoted anvil.

2,528,816
HEDGE SHEARS
Hugh N. Boyer, Canfield, Ohio; Elizabeth M. Boyer executrix of said Hugh N. Boyer, deceased
Application April 21, 1948, Serial No. 22,279
5 Claims. (Cl. 30—238)

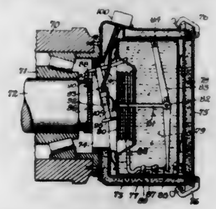
1. A shear comprising a blade having a secondary blade movably secured thereto for shearing action with respect thereto, a handle formed on said blade and a secondary handle pivotally secured to said blade, and a lever link pivotally secured to said secondary handle and to said secondary blade, and studs positioned on said secondary handle one on either side of the said lever link whereby movement of the secondary handle toward the blade will move the lever link and the secondary blade toward the blade

in a shearing action and move the secondary blade longitudinally with respect to the blade



when the said lever link engages one of the said studs.

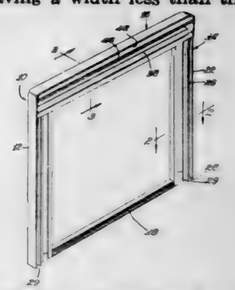
2,528,817
PROTECTIVE SYSTEM FOR AN OVERHEATED JOURNAL-BEARING AND ITS AXLE
Howard Brandt, New York, N. Y.
Application April 30, 1946, Serial No. 666,168
8 Claims. (Cl. 308—77)



1. In a protective system for cooling an excessively heated axle and its journal-bearing, a closed container body having therein a suitable cooling medium, a conduit extending from inside of said body to the outside thereof, a puncturable seal which normally blocks the outflow of the cooling medium through said conduit from said body, means operable to puncture the seal to allow the outflow of the cooling medium, said body having a normally contracted but extensible portion connected with said puncturing means to operate the latter when said portion is extended due to the pressure generated within said body by reason of convected heat of the journal-bearing and its axle.

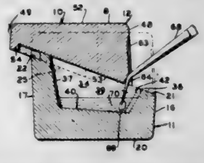
2,528,818
REAR DOOR END ASSEMBLY
Thoburn C. Brown and William R. Brown, Spokane, Wash.
Application March 11, 1947, Serial No. 733,870
7 Claims. (Cl. 296—28)

3. As the lintel for a rectangular frame for a rear end door assembly for a vehicle body having a forwardly directed channel on at least three sides thereof and to the walls of which the rear edges of the body of the vehicle may be fastened, an integral lintel of uniform cross section comprising a door jamb, a door stop, a passageway in said door stop extending substantially the full length thereof, and a slot lengthwise of the door stop and having a width less than the width of



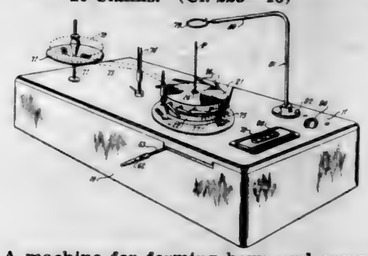
the passageway and connecting the passageway to the surface of the door stop.

2,528,819
MEDICAMENT DISPENSER
Louis Alexander Cohn, Ossining, and Albert Zola, New York, N. Y.
Application July 22, 1947, Serial No. 762,769
6 Claims. (Cl. 128—213)



1. A medicament dispenser comprising: a base, said base having a front wall, a cup shaped depression, a V-shaped groove in said front wall and a pair of ways; a cover, said cover having a pair of ledge members, said ledge members riding in said ways.

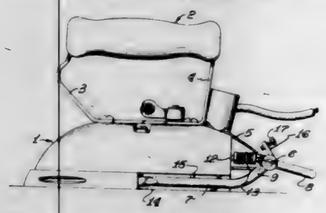
2,528,820
MACHINE AND METHOD FOR PRODUCING BOWS AND POMPONS
Harold M. Cook, Dallas, Tex., assignor to Tymatics, Inc., Dallas, Tex.
Application December 9, 1949, Serial No. 132,193
10 Claims. (Cl. 223—46)



1. A machine for forming bows and pompons from tape, including a turntable having an annular flange, a plurality of radially disposed and longitudinally adjustable shafts rotatably journaled intermediate their ends in the flange of said turntable, a cam ring embraced by the flange of said turntable and underlying the inner ends of said shafts, said cam ring having diametrically opposed recesses therein, a roller crank on each of said shafts carrying a roller engaging said cam ring, a tape engaging peg affixed to the outer end of each of said shafts at right angles thereto, a tape reel support adjacent said turntable,

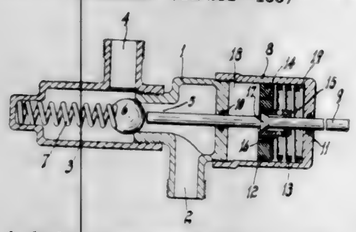
means for holding an end of said tape across said turntable, and means for rotating said turntable and cam ring at differential speeds to effect, through the cooperation of said rollers and cam recesses, sudden upward and gradual downward displacement of pairs of pegs successively on alternate sides of said turntable to engage the tape on said pegs and dispose the same in intercrossing leads on the center of said turntable.

2,528,821
FLATIRON SUPPORT MECHANISM
Paul Cureton, Long Beach, Calif.
Application July 7, 1947, Serial No. 759,409
2 Claims. (Cl. 38—79)



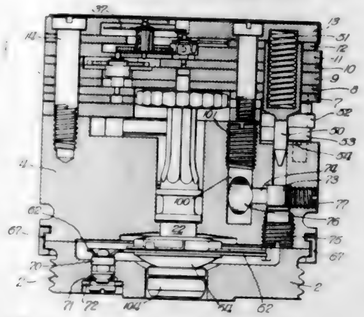
1. The combination with a flat iron operable on a support and having recesses at the bottom side edges thereof, of a bracket rearwardly extending from the body of the iron and terminating in bearings, a bifurcated frame transversely mounted for rotation within said bearings and having prongs forwardly extending therefrom normally to lodge within said recesses, a bail rearwardly extending from the frame for contact with said support upon backward tilting movement of the iron, continued tilting movement thereof causing the bail and frame to swing on the frame pivot thereby to move the frame out of the said recesses, studs forwardly projecting from the frame in continued alignment with said bail, studs rearwardly projecting from the iron body, compression springs between the iron body studs and the frame studs normally exerting pressure to maintain the frame seated within said recesses and in the opposite direction upon starting said frame swinging movement.

2,528,822
AUTOMATIC SHUTOFF VALVE
Ernest A. Dunn, Long Beach, Calif.
Application June 20, 1947, Serial No. 755,880
2 Claims. (Cl. 251—138)



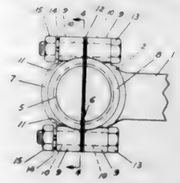
1. A dash-pot mechanism for use with automatic shut-off valves comprising a body having a valve therein, a valve actuating shaft extending into the body to actuate said valve therein, a cylinder on the body and surrounding the shaft, a piston in said cylinder, said piston having a bleed port therein, a valve head on the shaft, said valve head being seated in the piston, and a spring engaging the piston and urging said piston against said valve head.

2,528,823
MECHANICAL TIME FUSE
Jean Fink and Louis Hebbeln, Delavan, Wis., assignors, by mesne assignments, to United States of America as represented by the Secretary of the Navy
Application July 3, 1944, Serial No. 543,302
7 Claims. (Cl. 102—71)



1. The combination, with a time fuse having a clockwork mechanism and a timing disc frictionally driven thereby, of a member rotatably coupled to said fuse and fixed to the shell in which the fuse is assembled, a set back pin in said member for locking said timing disc, and means responsive to rotation of the nose of the shell for rotating the fuse relative to said disc to set the fuse.

2,528,824
ADAPTABLE THREADED CONNECTING MEMBER
William T. Gindlesperger, Erie, Pa.
Application July 5, 1947, Serial No. 759,024
2 Claims. (Cl. 287—111)

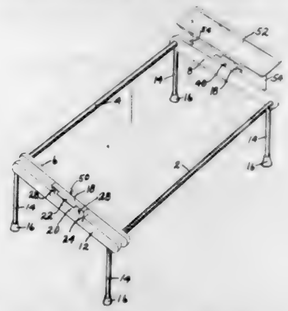


1. A rod for connection to a threaded cylindrical member comprising a rod, an enlarged threaded apertured end on said rod split transversely and centrally thereof, apertured aligned members welded onto each side of each split portion substantially parallel to the axis of said rod, a laminated shim disposed between said split portions and bolt and nut assemblies including nuts and bolts to draw said split portions together, said bolts extending through said adjacent apertured aligned members.

2,528,825
CONVERTIBLE BATHTUB APPLIANCE
Rebecca Graves, Spokane, Wash.
Application November 12, 1946, Serial No. 709,258
2 Claims. (Cl. 248—168)

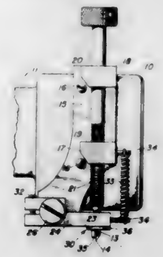
1. In the bath tub appliance described, the combination with a rectangular frame including a pair of fixed end bars, and an exterior horizontal base block mounted along the upper portion of each end bar, of a pair of foldable bars each having a pair of fixed legs, hinges uniting

the lower edges of the fixed bars with the lower inner side portions of the foldable bars, and



detachable fastening means coacting with the outer sides of the blocks and the foldable bars for retaining the latter bars in fixed position.

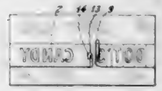
2,528,826
RECORDING EQUIPMENT HAVING AN ADJUSTABLE ADVANCE BALL
Russell O. Hanson, Los Angeles, Calif., and William F. Saars, East Haven, Conn., assignors to the United States of America as represented by the Secretary of the Navy
Application July 15, 1948, Serial No. 38,878
2 Claims. (Cl. 274—25)



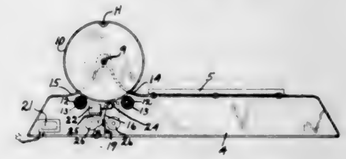
1. In sound recording equipment, a cutter head having a cutting stylus, an advance ball for supporting the stylus on a record disk, a mount for the advance ball, being attached to the cutter head and extending into proximity to the stylus, means for adjusting the mount in reference to the cutter head thereby to change the elevation of the advance ball in reference to the cutting point of the stylus and set the depth of cut, and carrier means for the advance ball, being turnable in the mount annularly of the stylus to orient the advance ball along a path which completely encircles said cutting point.

2,528,827
METHOD OF FORMING SIGNS
Joseph S. Harrison, Marietta, Ga., assignor to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application January 31, 1946, Serial No. 644,533
4 Claims. (Cl. 40—125)

1. A method of forming a sign from selected letter panels of thin adhesive material which comprises the steps of adhering a letter panel comprising a letter area and a marginal background area to a surface along a predetermined line, mounting a second letter panel with its marginal background area adjacent said initial panel with the adjacent marginal areas in overlapping relation before the setting of the adhesive, severing the overlapped margins simultaneously along an identical line of severance, removing the severed portions, and pressing the panels against the supporting surface with the abutting edges merging in uniform contact and continuity of the sign surface.

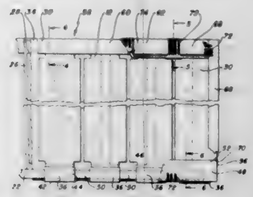


2,528,828
APPLIANCE FOR CORRECTING EXAMINATION PAPERS
Austin L. Henry, Spokane, Wash.
Application January 27, 1947, Serial No. 724,491
1 Claim. (Cl. 35—48)



In an educational appliance having an open electrical circuit, the combination with a rotary drum and operating means therefor, and friction feed rollers coacting with the lower periphery of the drum to convey a perforated card, of a resiliently mounted conductor finger adapted to coact with the perforated card and contact the drum for closing the circuit, an inked ribbon supported beneath the lower periphery of the drum and means for feeding said ribbon, a printing wheel journaled in operative position beneath the ribbon, electromagnetic means for intermittently rotating the printing wheel, an actuating pin carried by the drum, a bell-crank lever having a depressible arm in the path of the pin, and a lifting arm of the lever coacting with the wheel to lift the latter for an imprint on the card.

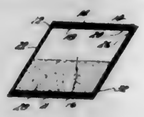
2,528,829
ORNAMENTAL SCREEN
Marguerite Henriette Hintersteiner, New York, N. Y.
Application October 8, 1946, Serial No. 701,891
4 Claims. (Cl. 160—231)



1. A screen comprising a plurality of elongated slats disposed in side by side relationship with their abutting longitudinal edges slightly spaced

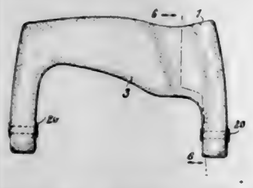
from each other to form cracks therebetween, a resilient metallic strip disposed in overlying relationship to all said slats near one end thereof, edging tapes overlying both faces of all of said slats near an end margin thereof and adhesively secured thereto to flexibly interconnect said slats to form a flexible screen body, an inner fabric sheet overlying all said slats on one face thereof and adhesively secured thereto, elongated opaque strips adhesively secured to said inner fabric sheet overlying said cracks between said slats, and an outer fabric sheet overlying said inner fabric sheet and secured thereto.

2,528,830
POWDERED SOAP CONTAINER
Kathryn C. Iliff, Kansas City, Mo.
Application October 21, 1946, Serial No. 704,561
1 Claim. (Cl. 229—11)



A container comprising a box of substantially rhombus side elevational form, a removable cover having an open rear end adapted to telescope over the forward end of said box and having notched rear edges whereby to expose side portions of said box for hand gripping, said box having an attached inner overhanging end wall perforated at its upper portion to sift powdered material therethrough, the top of said box having a filling hole formed through its inner portion, an edge portion of said end wall being adapted to be positioned over said hole whereby it is closed, and the forward end wall of said cover being adapted to be positioned to cover the perforations in said overhanging end wall.

2,528,831
LUGGAGE HANDLE COMPRISING TWO COMPLEMENTARY AND INTERLOCKED HOLLOW SECTIONS INDIVIDUALLY COVERED
Elias Jaffe, New York, N. Y.
Application July 15, 1948, Serial No. 38,781
6 Claims. (Cl. 190—57)

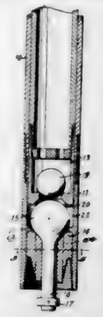


1. A handle of the character described comprising two handle halves, each of said halves being of concavo-convex form and having a plate fitted within its concave side, a flexible covering fitted over each handle half, the covering extending over the convex surface of the handle half and being inserted between the edge of the plate and the inner surface of the handle half, the two plates being provided with interlocking elements, the two handle halves being placed with their concave sides in confronting relation whereby said elements on the two plates will be placed in interlocking engagement to thereby hold the two halves of the handle together as a unit.

2,528,832
METHOD OF PREPARING AND PACKAGING BACON
Otto C. Johnson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 6, 1946, Serial No. 645,965
8 Claims. (Cl. 99—174)

1. The method of preparing bacon for preservation and merchandising which comprises slicing a slab of cured pork, and thereafter individually exposing the slices to smoke over essentially the entire superficial areas thereof, and cooking the slices while individually restraining the same at their larger surfaces to prevent distortion during cooking.

2,528,833
WELL PUMP
Kork Kelley, Wichita Falls, Tex.
Application June 3, 1946, Serial No. 673,981
3 Claims. (Cl. 103—179)

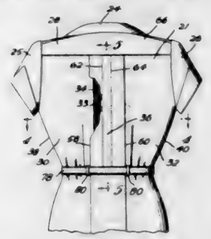


1. A pump for volatile liquids having a working barrel and a hollow plunger, a discharge valve in said plunger, said plunger having a relatively thin lower end wall, a seat for said discharge valve in the lower end wall of said plunger, said end wall having a recessed bottom, a tubular extension on said working barrel defining a suction valve chamber, a reciprocable suction valve occupying substantially the entire volume of said chamber at the limit of the down-stroke of the plunger, the upper portion of said suction valve being disposed in the recess at the limit of the down-stroke of said plunger, said discharge valve being effective, on the down-stroke of said plunger, to reduce the volume of said gaseous product between said valves and to increase the fluid displacement of said pump by descending on its seat into contiguity with the upper portion of said suction valve, and means for limiting the displacement of said suction valve.

2,528,834
GARMENT CONSTRUCTION
Ben Klein and Charles Miller, New York, N. Y., assignors to Varden Dress, Inc., New York, N. Y., a corporation of New York
Application July 23, 1948, Serial No. 40,344
2 Claims. (Cl. 2—93)

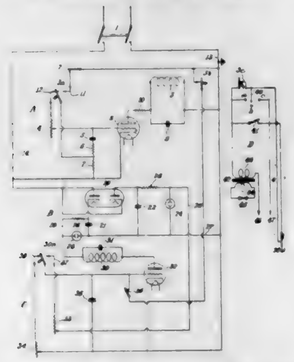
1. Garment back construction comprising: a yoke element; a first back element; a second back element spaced from said first back element; a third inner back element composed of a resilient material and connected at the outer edge portions thereof to the juxtaposed edges of said first and second back elements; and a fourth outer back element outwardly overlying the third inner back

element and the inner opposed edge portions of the first and second back elements; means serving to connect said first, second, third and fourth back elements at the upper portions thereof along



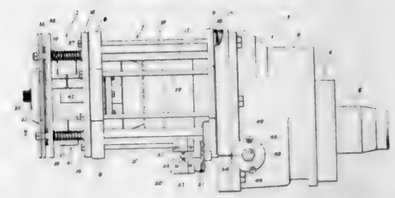
a substantially horizontal line to the yoke element; and means connecting said third and fourth back elements only along a substantially centrally disposed vertical line.

2,528,835
WELD TIMER
Jacob Kurtz, Teaneck, N. J., and James D. Waldie, New York, N. Y., assignors, by mesne assignments, to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application February 8, 1944, Serial No. 521,590
11 Claims. (Cl. 175—320)



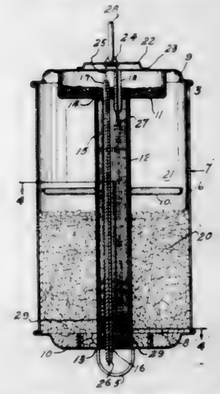
1. In a timing device, a work circuit, means including a gaseous discharge tube and a first relay controlled thereby for determining the total time from a starting time during which current may flow in said work circuit, said relay having a contact in said circuit, means including a second discharge tube and a second relay having a contact in said circuit in series with said last-mentioned contact for determining the time intervals of current flow in said circuit during said total time, a switch for establishing a starting time by placing into operation the circuit of said gaseous discharge tube, the circuit of the gaseous tube including means responsive to a single actuation of said switch for releasing the first relay at the starting time and actuating it at the end of said total time, a contact of said first relay which disables the second tube when the first relay is operated but is ineffective to do so during said total time when it is released, the circuit of the second tube including means for operating the second relay intermittently at a predetermined rate when the second tube is not disabled, and capacitances and resistances in the circuits of said tubes for determining the operating time intervals of said relays.

2,528,836
ELECTRIC MOTOR-DRIVEN POWER UNIT
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application October 27, 1947, Serial No. 782,379
1 Claim. (Cl. 172—36)



In an electric motor power unit, a pair of noncircular multisided end rings, circumferentially spaced connector bars rigidly secured to and extending between the end rings, said bars being disposed substantially centrally between the ends of the sides of the ring to which they are connected, a circular stator rigidly fixed to the inner sides of the connector bars, a pair of end walls provided with annular seats, the end rings being provided with shoulders matchingly fitting the seats in the end walls, tie bolts mounted through and extending between the end walls at points adjacent the angles formed between the adjacent ends of the inner faces of the side walls of the end rings, such tie bolts being effective to secure the end walls, end rings, connector bars and stator together as a rigid unit, a rotor turnably disposed within the stator, a shaft on the rotor journaled in the end walls, and a heat dissipating element fixed to and projecting beyond one end of the rotor and rotatable therewith.

2,528,837
MARINE TORCH
Charles Linhardt, Jr., Baltimore, Md.
Application June 12, 1947, Serial No. 754,284
1 Claim. (Cl. 9—8.3)



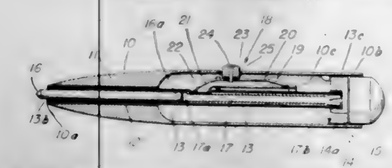
A marine torch of the class described, comprising a casing having a top and a bottom, a seal at the top, a re-igniting chamber fixed to the inner face of said top and located in said casing, a reticulated flame resisting member located centrally in the casing and secured to the opposing faces of the casing and the re-igniting chamber, a baffle carried by the reticulated member and located in the casing thereby dividing

said casing into upper and lower chambers, said lower chamber providing a space for gas forming material, a water tube extending throughout the length of the casing and located in the reticulated member and having one end terminating in said re-igniting chamber, said water tube having apertures through its wall providing for water flow into said lower chamber, a gas conveying tube extending through said re-igniting chamber and into said reticulated flame resisting member, and having one end secured to said top, a cleaning wire, a portion of said cleaning wire extending throughout the length of said water tube, a portion of said cleaning wire extending through said gas tube, an end portion of said cleaning wire being U-shaped, and a ring in engagement with the said U-shaped end portion of said cleaning wire, thereby assuring positive withdrawal of both wire portions when the cleaning wire is withdrawn.

2,528,838
DISPLAY FIXTURE UNIT
Peter V. Martino, Long Island City, N. Y.
Application March 14, 1946, Serial No. 654,423
4 Claims. (Cl. 211—137)

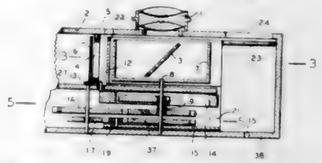
1. A display fixture unit of the character described comprising a first member having a series of steps connected by risers upon which to display articles, said steps and risers being of arcuate contour, a second member having a series of steps connected by risers, upon which to display articles, the steps of said second member being substantially rectangular in contour, an opening in the steps and risers of said first member, the contour of said opening being such as to slidably receive an end portion of said second member therein, said second member substantially completely filling said opening, said sliding movement of said second member being in the direction of lines formed by the intersection of the said steps and risers of said second member.

2,528,839
MECHANICAL PENCIL
John H. Mason, Brooklyn, N. Y.
Application August 7, 1946, Serial No. 689,033
3 Claims. (Cl. 120—17)



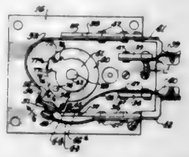
1. In a mechanical pencil, in combination, a barrel, a lead tube in said barrel, a notched feeding element in said tube adapted to be moved axially thereof for feeding lead therethrough, a bowed resilient member having one end connected to said tube and the other end extending through a hole in said tube to engage said notched element whereby, when said bowed member is flattened and accordingly elongated, said notched element is advanced in lead-feeding direction, means extending transversely of and through said barrel to an accessible position and connected to said bowed member for operating the same and accordingly moving said notched element, and means for positively precluding movement of said notched element in non-lead feeding direction, said transversely extending means comprising a finger piece so dimensioned that its outer end lies within said barrel when said resilient member is completely flattened, whereby said tube, said element, said member, and said finger piece may be installed in or removed from said barrel as a unitary assembly.

2,528,840
MOTION-PICTURE CAMERA HAVING COUPLED DRIVE AND MASKING MEANS FOR TAKING DIFFERENT SIZE EXPOSURES
Reginald Fawn Mitchell, Mount Vernon, N. Y.
Application November 4, 1948, Serial No. 58,205
3 Claims. (Cl. 88—18)



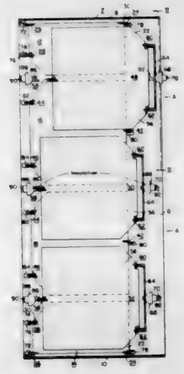
1. A movie type camera, comprising a housing having an aperture plate having an aperture for exposing a film, a rotating cylindrical shutter having a peripheral wall provided with an exposure slit to expose said aperture, a view finder having its optical axis parallel to the axis of rotation of said shutter and disposed in close proximity to said shutter, film advancing means, means driving said shutter at a predetermined ratio with respect to said film advancing means, an arcuate member mounted for rotation about the axis of said shutter and adapted to be set to mask a predetermined portion of said aperture or to be retracted to unmasking position, a finder mask carried by said arcuate member and adapted to be positioned by said member to mask a portion of said finder corresponding to the portion of said aperture masked by said member, and means actuated by said member to vary said ratio to correspond to the unmasked portion of said aperture.

2,528,841
TIME-CONTROLLED ELECTRIC SWITCH
David Morrison and Joseph J. Everard, Manitowoc, Wis., assignors to Paragon Electric Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 30, 1946, Serial No. 700,336
24 Claims. (Cl. 200—33)



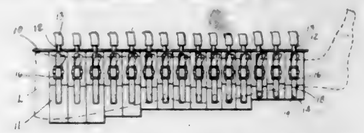
24. A snap switch comprising a base, a stationary contact on the base, a rotatable shaft rising from the base, a spring arm anchored at one end to the base remote from the latter, a contact on the arm near its free end for cooperation with the stationary contact; two members on the shaft adjacent to each other, the first member being loose on and the second member being fixed to the shaft, and the first member containing a peripheral notch; a stop to limit the turning movements of said members in one direction; an element on said arm near its free end that drops into said notch when the first member is at the limit determined by the aforesaid stop; a part on the second member in position to engage said element at the time that both members are arrested by the aforesaid stop and drive that element toward the anchored end of the arm, thereby altering the curvature of the arm sufficiently to lift the said element out of said notch when the shaft is turned in one direction and, on the recoil of the arm, to come to rest on the first member away from the notch; a spring tending constantly to turn said first member to the position in which said element leaves the notch; a second stop to arrest the turning movement of said first member when it reaches said last-mentioned position; and means on the second member to engage the first member, when the shaft is turned in the opposite direction, and shift it from the second stop to the first stop.

2,528,842
DUST-PRECIPITATING MEANS WITH SEPARABLE PLATE-ASSEMBLY UNITS
Gaylord W. Penney, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1947, Serial No. 747,622
6 Claims. (Cl. 183—7)



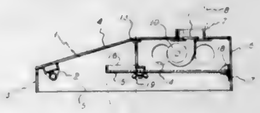
1. A plate-assembly unit for an electrostatic dust precipitator, comprising, in combination, a plurality of plate-electrodes; a first bar and spacing means associated therewith for holding the plate-electrodes spaced, said first bar extending centrally of a first side of the unit; a second and a third bar and spacing means for holding the plate-electrodes spaced, said second and third bars extending along a second side of the unit, which is opposite to said first side, the second and third bars being spaced along said second side; supports by means of which the unit can be carried in a housing, said supports extending laterally outwardly from said plurality of plate-electrodes.

2,528,843
APPARATUS FOR THE TREATMENT OF INTERMITTENT CLAUDICATION
Henry I. Poor, La Fayette, Ind., assignor of one-fourth to J. Philip Sampson, Santa Monica, Calif.
Application December 5, 1945, Serial No. 632,907
12 Claims. (Cl. 128—24)



1. A selective pressure supply control device including in combination a cylinder having a piston rod therein, a plurality of take-off tubes in free communication with the cylinder and arranged longitudinally thereof, said cylinder having a vent therefrom, and piston means positioned in the cylinder carried by said rod, said means having spaced ends, and a pressure supply connection between said spaced ends connectable with said tubes during actuation of said piston means, whereby selective pressure supply to certain of the tubes and the venting of other tubes is determined.

2,528,844
KITCHEN VENTILATOR
Roy B. Robertson, Fort Worth, Tex.
Application September 8, 1947, Serial No. 772,702
1 Claim. (Cl. 98—115)

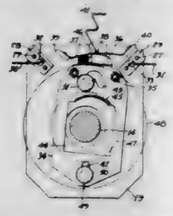


A ventilator hood of the described class and including a substantially horizontal top, a flanged ring positioned within said top and forming an outlet therefore, a blower including a tubular discharge supported beneath said top and having said discharge end positioned in and spaced from the inner periphery of said ring, partitions having holes therethrough secured to the lower surface of said hood and positioned around said blower, and a drip pan larger than the horizontal area defined by said partitions and detachably secured to the lower edges of the latter.

2,528,845
CENTRIFUGAL SWITCH
Chester E. Sprague, Portland, Oreg.
Application September 29, 1947, Serial No. 776,660
4 Claims. (Cl. 200—80)

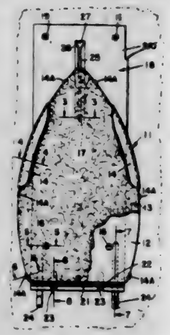
1. In combination with a rotatable centrifugal switch operator, having radially flying members biased to a position of lesser radius but movable under the influence of centrifugal force to a position of greater radius, of a combined selector and centrifugal starting switch for a split-phase motor, comprising a plate having a center hole loosely surrounding the shaft of said motor, said plate being perforated with a slot radial of said motor shaft and at one side of said shaft and said hole, said plate being per-

forated with a V shaped slot pointing away from said shaft and at the opposite side of said shaft and said hole, a first fixed pin extending through said radial slot and pivoting said plate, a second fixed pin extending through said V shaped slot and guiding said plate as it slides along and pivots on said first pin in said radial slot, a first stationary contact spaced from said plate, a second stationary contact spaced from said plate, resilient means carried by said plate and carrying movable contacts for cooperating with said first and said second contacts, and means carried by said plate for en-



gaging said switch operator whereby when said switch operator flying members are in their position of lesser radius said first and said second contacts will each be engaged by its cooperating movable contact and when said switch operator flying members are in their position of greater radius in one direction of rotation only the first stationary contact will be engaged by its cooperating movable contact and when said switch operator flying members are in their position of greater radius in the other direction of rotation only the second stationary contact will be engaged by its cooperating movable contact.

2,528,846
PRESSING IRON HOLDER
Peter A. Sitnick, Sunland, and Audy W. Christopher, Los Angeles, Calif.; said Sitnick assignor to Clifford B. Howell, Los Angeles, Calif.
Application January 23, 1950, Serial No. 140,126
3 Claims. (Cl. 248—117.2)

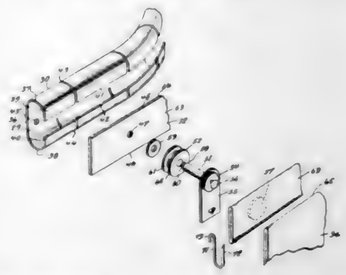


1. A pressing iron holder comprising an iron stand for supporting the pressing iron while in use on the ironing board, and for use in supporting the iron on a wall rack, and a wall rack adapted to be attached to a vertical surface for supporting the pressing iron and the stand during storage, said iron stand comprising a base plate shaped to conform to the conventional rounded wedge-shaped pressing surface of the iron, said plate being provided with opposed turned up-and-over flanges adjacent the iron point adapted to engage the shoe of the iron, said base plate being also provided with spacing dimples and a headed button projecting from the underside of said plate; and said wall rack comprising shelf means upon which the blunt end of said iron may rest, while engaged by said flanges of said ironstand, and means for adjustably securing said ironstand in vertical position on said rack.

2,528,847
FILTER CLOTH AND PROCESS OF PREPARING SAME
Ottomar H. Van Norden, New York, N. Y., assignor to Metakloth Company, Lodi, N. J., a corporation of New Jersey
No Drawing. Application August 20, 1948, Serial No. 45,438. In Canada September 5, 1947
7 Claims. (Cl. 210—203)

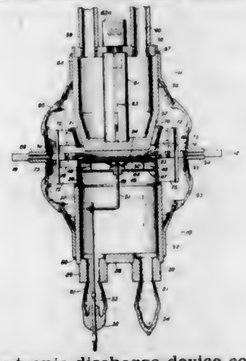
1. The process of treating filter cloth to prepare it for use in the filtration of alkaline aqueous liquids, comprising impregnating a cloth in a single bath comprising an aqueous solution of a water-soluble salt of a metal selected from the group consisting of cerium, zirconium and lanthanum, and an emulsion of a mineral wax having an aqueous continuous phase, said emulsion being stabilized by the presence in the bath of an emulsifying agent, while maintaining the pH of said solution between 7 and about 9, and thereafter drying the cloth.

2,528,848
SKIRT AND CURTAIN SUPPORTING CONSTRUCTION
Samuel J. Weinzimmer, New Rochelle, N. Y.
Application March 30, 1946, Serial No. 658,436
5 Claims. (Cl. 16—87.6)



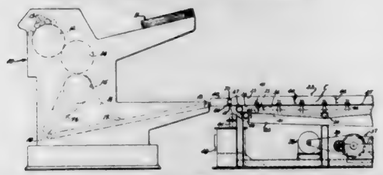
1. For use with an article of furniture and a skirt therefor, structure for movably mounting said skirt with respect to said article, comprising: an elongated track element having a plurality of transverse notches spaced therealong whereby said track element may be bent to conform the same to the contours of said article; an elongated flexible unitary carrier element which changes in shape to conform to the shape of the path of travel of the carrier element as it moves along the track element, and at least longer than the distance between two of said notches which are next to each other; means supporting said carrier element on said track element including a plurality of members fixed in position and spaced along said carrier element and supported thereby, said members engaging said track for guiding the movement of the carrier element along the track element, whereby said members are inhibited against entering said notches individually and the carrier element is movable as a unit parallel to said track element.

2,528,849
HIGH-POWER ELECTRON DISCHARGE DEVICE
John W. West, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 19, 1946, Serial No. 704,446
14 Claims. (Cl. 250—27.5)



1. An electronic discharge device comprising a hollow metallic cathode structure having a flat emitting surface of large area, a hollow metallic anode structure having a flat surface oppositely disposed in spaced relation to said cathode emitting surface, a perforated grid electrode medially disposed in relation to said cathode and anode surfaces, annular insulated housing portions disposed about said cathode and anode structures, said housing portions having cylindrical metallic sleeve members and the peripheral walls of said cathode and anode structures being cylindrical and each being fitted within a respective sleeve member, and an annular foundation for said grid electrode sealed to and between said housing portions.

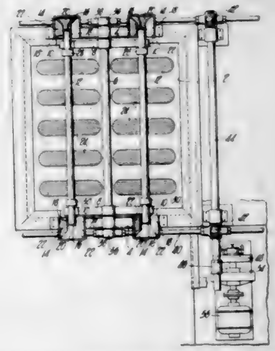
2,528,850
PROCESS OF DRYING PRINTING INKS
Clark E. Thorp and Layton C. Kinney, Chicago, Ill., assignors, by mesne assignments, to The Meyercord Co., Chicago, Ill., a corporation of Illinois
Application July 8, 1947, Serial No. 759,582
11 Claims. (Cl. 101—416)



1. The process of printing, which comprises depositing on sheet material an ink composition containing a fatty oil, and subjecting said freshly deposited composition to the action of sulphur dichloride vapors to harden said composition.

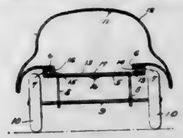
2,528,851
AGITATING MECHANISM IN APPARATUS FOR TREATING MATERIAL WITH LIQUID
George L. Bliss, Yardley, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 6, 1945, Serial No. 633,237
4 Claims. (Cl. 134—160)

1. In material treating apparatus of the class described, a tank adapted to contain liquid for treating material, a rocker arm supported above said tank for oscillatory movement about a horizontal axis, means for suspending material from said rocker arm into said tank, and mechanism for oscillating said rocker arm in cycles and stopping movement of the rocker arm twice in each cycle for intervals of unequal duration, said mechanism including a rotatable power driven



cam having two sectors concentric with the axis of rotation and of substantial but unequal arcuate length and two eccentric sectors joining said concentric sectors and being of equal arcuate length, a cam follower in engagement with said cam, and a linkage operatively connecting said cam follower and said rocker arm, movement of said arm occupying a substantial part of the cycle.

2,528,852
REMOVABLE BODY CONSTRUCTION FOR TOY VEHICLES
Charles T. Borchers, Shelbyville, Ind.
Application June 17, 1949, Serial No. 99,710
1 Claim. (Cl. 46—223)

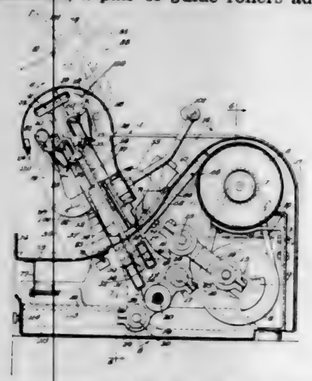


A toy vehicle comprising a wheel-supported chassis embodying a wide plate, the longitudinal side edges of the plate being extended upwardly and inwardly providing longitudinal grooves at the side edges of the chassis, yieldable upstanding tongues formed on the wide plate, disposed within the grooves, a body, ribs forming a part of the body and disposed within the grooves of the chassis removably securing the body to the chassis, said body having openings into which the tongues extend.

2,528,853
MULTIPLE RECIPROCATING BLADE BREAD SLICING MACHINE
Morris Brustowsky, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, Inc., a corporation of Indiana
Application May 26, 1945, Serial No. 596,009
10 Claims. (Cl. 146—152)

1. A slicing machine comprising a supporting structure, a pair of knife frames each pivotally

mounted at one end, each frame having a finger on the end opposite the first said end, each finger passing through openings in a part of the structure, a pair of guide rollers adapted to



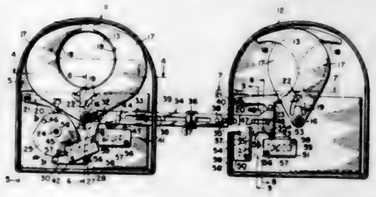
be rotatably engaged by each finger, one of said rollers of each pair movable, and spring means to urge the movable roller of each pair toward the other roller of the same pair.

2,528,854
COMBINED HOOK AND SNAP FASTENER
Alma S. Burk and James A. Burk, Lynwood, Calif.
Application December 4, 1948, Serial No. 63,552
1 Claim. (Cl. 24—73)

A shoulder strap fastener comprising a flat open ended loop formed of material which is sufficiently stiff to be form retaining, said loop embodying a pair of substantially parallel legs joined together at one of their ends and having spaced apart but contiguous free outer ends, one of said legs forming a base member and having its free end portion projecting beyond the free end of the other leg forming a stiff guide for directing a strap between said legs, a two element snap fastener, one element of which is secured to the projecting free end portion of the base member and extending upwardly therefrom forward of but adjacent to the free end of the other leg forming a space for passing of a strap between the free end of the other leg and the snap fastener element, and a flexible strip adapted for attachment to a garment with one face thereof presented thereto and on the other face of which the other snap fastener element of the strap fastener is secured for presentation to and connection with its companion element on said loop, said strap fastener being freely movable about the axis of said snap fastener elements when the latter are connected together.

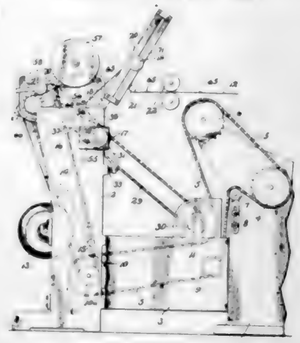
2,528,855
APPARATUS FOR USE IN ASSOCIATION WITH TWO PICTURE PROJECTOR MACHINES
Clarence J. Cadwell, Carpinteria, and Frank M. Adamson, Los Angeles, Calif., assignors to The Cadwell Corporation, Beverly Hills, Calif., a corporation of California
Application May 16, 1949, Serial No. 93,581
4 Claims. (Cl. 88—24)

1. For the automatic operation of a pair of still picture projectors, each having an electric lamp and a picture slide changing mechanism operating electric motor; a shutter unit for each projector comprising a pair of pivotally mounted leaves adapted to be relatively oscillated to obstruct and clear the path of a light beam from the adjacent projector, a pivoted arm adjacent to each unit, an operative connection between the arm and the adjacent pair of leaves for effecting relative oscillation of the leaves upon swinging movement of the arm, a cam element movably supported in each housing adjacent to the arm



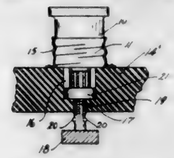
therein, means forming a connection between each cam unit and the adjacent arm whereby movement of the cam unit in one direction will effect swinging movement of the arm, said cam units being constructed and arranged whereby one cam will move the adjacent arm to close the shutter leaves simultaneously with the movement by the other cam of the adjacent arm in a direction to open the shutter leaves, means for applying motive power to one of the cams, an operative connection between the said one of the cams and the other cam whereby the cams are operated in unison.

2,528,856
LABELING MACHINE
Harry F. Caldwell, Grand Rapids, Mich., assignor to Oliver Machinery Company, Grand Rapids, Mich., a corporation of Michigan
Application August 1, 1949, Serial No. 107,963
7 Claims. (Cl. 216—30)



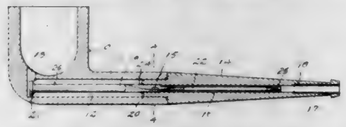
1. In a structure as described, a support adapted to be connected with and located at one end of a wrapping machine, a horizontal roller mounted on said support, means for continuously driving said roller, means for conducting and carrying wrapping paper mounted on said support to and partly around said roller and away therefrom, means driven by the same driving means which drives the roller for periodically supplying labels one at a time to said moving wrapping paper at equally spaced distances in the length thereof a short distance from and prior to the wrapping paper reaching said roller, and a heating element mounted on said roller synchronized in movement to bear against each label as the paper and labels thereagainst moves around said roller, said labels carrying each an adhesive at the sides thereof against the paper, rendered adhesive by the application of heat.

2,528,857
FUSE PLUG AND SOCKET
Roy Oliver Campbell, Maitland, Ontario, Canada
Application November 23, 1948, Serial No. 61,543
1 Claim. (Cl. 200—119)



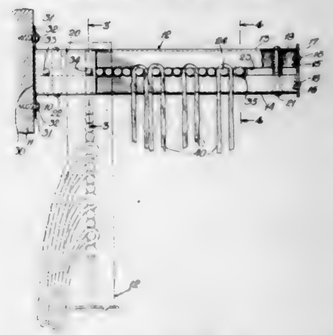
A fuse plug and socket comprising a non-conductive socket member having a screw-threaded bore extending through the bottom thereof, said bore having an enlarged upper end, a contact rod threaded in said bore adapted to move axially of said socket upon rotation, a disk on said rod adapted to seat in the enlarged upper end of said bore to limit the axial movement of said rod, an exteriorly fluted head above said disk of larger diameter than said rod, a contact member below said contact rod adapted to be engaged by said contact rod upon downward movement thereof, a threaded contact shell surrounding the upper end of said socket, a fuse plug adapted to be screwed in said contact shell having a tubular extension projecting from its center contact, said extension being interiorly fluted for interfitting engagement with the fluted head of said contact rod whereby said rod is rotated upon turning of said plug, said tubular extension having the interior of its lower end beveled to provide a cutting edge.

2,528,858
SMOKING PIPE
Frank P. Catalano, Joseph P. Catalano, and Peter P. Catalano, North Collins, N. Y., assignors to Panepinto Mfg. Corp., North Collins, N. Y., a corporation of New York
Application October 13, 1947, Serial No. 779,506
1 Claim. (Cl. 131—184)



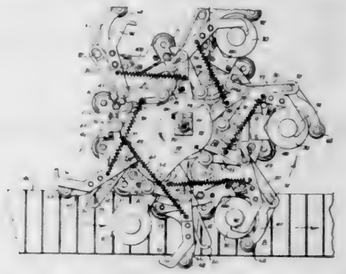
In a smoking pipe, a stem with a bore therethrough and a mouthpiece having a bore of lesser diameter than said first bore, a reduced stud connecting said mouthpiece and said stem, said stud being internally threaded, a plunger rod assembly including a threaded intermediate portion and oppositely extending shank portions of different diameters extending into said bores, said threaded intermediate portion engaging the internal threads of said second bore whereby said stud constitutes the sole support of said shanks in said bores, a smoke passage extending through said threaded intermediate portion, and a head at the extremity of each shank portion adapted to fit into the bore in which it is positioned, whereby upon withdrawal each head may clean its associated bore.

2,528,859
TIE RACK
Sol N. Chaika, Bronx, N. Y.
Application June 20, 1946, Serial No. 678,103
12 Claims. (Cl. 211—100)



1. A rack of the class described comprising a U-shaped bracket adapted for attachment to a supporting surface, means slidably and pivotally mounting a frame in connection with said bracket and extending therefrom, said frame comprising a double channel body with the channels arranged opposed to each other in the frame, means spacing said channels to form openings extending longitudinally of opposed side portions of the frame, a plurality of rods mounted in the frame and extending at opposite sides of the frame through the side openings therein, said rods having circumferentially grooved portions engaging said channelled members in retaining the rods against displacement from the frame, and means comprising a resilient clamp slidably engaging the frame for retaining the rods in grouped arrangement one with respect to the other in said frame.

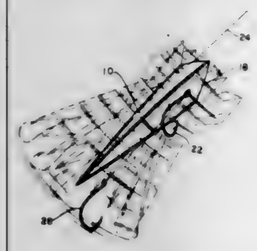
2,528,860
ARTICLE HOLDING MEANS
Robert A. Clark, Owensboro, Ky., assignor, by mesne assignments, to Wright Machinery Company, Durham, N. C., a corporation of North Carolina
Application July 5, 1949, Serial No. 103,097
9 Claims. (Cl. 198—33)



1. In an article handling mechanism, having a support, a member rotatable on said support, and a pair of rollers adjacent the periphery of said member defining a radially outwardly open pocket therebetween to rotatably receive and bodily move an article and means rotating one of said rollers on its axis, the improvement comprising; an arm pivoted to said member adjacent said pocket, the free end of said arm extending

outwardly of said pocket and having an article-engaging idler roller thereon, and means actuated in timed relation to the rotation of said member to swing said arm and move said roller away from said pocket to release an article therein.

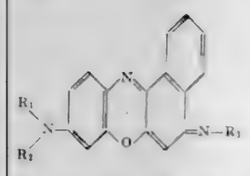
2,528,861
FISHING LURE
Arthur C. Clasen, Kansas City, Kans., and Hugh J. Milligard, Spokane, and Theodore A. Phelps, Seattle, Wash.
Application August 27, 1946, Serial No. 693,360
1 Claim. (Cl. 43—42.05)



A fishing lure consisting of a body having a substantially pyramidal form adapted to be towed with its base end forward, said base end which is formed as a single flat plane being disposed angularly with respect to adjacent surfaces of the body to form a water impinging surface; said body being formed of three longitudinally arcuate triangular surfaces one of which has a greater area than the others, and is disposed to form the bottom of the lure; said lure having a hole passing therethrough from the base end to the larger side and directed rearwardly; a leader adapted to freely pass through said hole and have secured to it, in spaced apart relationship, a plurality of fish hooks having shanks and eyes; said large side having a recess formed therein adapted to receive the shank and eye of one of said hooks and resilient means adapted to frictionally secure said one hook in said recess.

2,528,862
9-PROPYLALKYLAMINO-5-ARYLAMINO-BENZO[a]PHENOXAZINES
Moses L. Crossley, Plainfield, and Richard J. Turner and Paul F. Dreisbach, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 10, 1949, Serial No. 109,625
6 Claims. (Cl. 260—244)

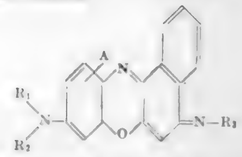
1. As new chemical compounds, the compounds selected from the class consisting of the bases having the formula:



in which R_1 is C_3H_7, R_2 is an alkyl group having more than one and not more than three carbon atoms, and R_3 is a benzene radical, and their addition salts with acids.

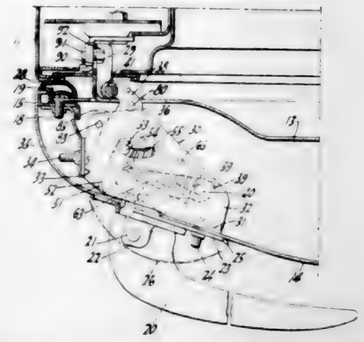
2,528,863
9-DIALKYLAMINO-5-ARYLAMINO [a] PHENOXAZINES
Moses L. Crossley, Plainfield, and Paul F. Dreisbach and Richard J. Turner, Somerville, and Corris M. Hofmann, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 10, 1949, Serial No. 109,626
6 Claims. (Cl. 260—244)

1. As new chemical compounds, the compounds selected from the class consisting of the bases having the formula:



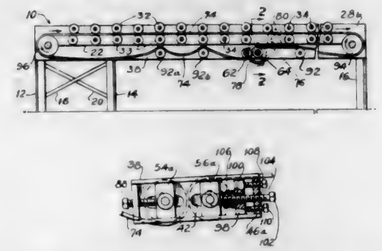
wherein R_1 represents an alkyl group having the formula $-C_nH_{2n+1}$ in which n is an integer selected from the group consisting of 4 to 14, inclusive, R_2 is a substituent selected from the group consisting of hydrogen and an alkyl radical having the formula $-C_mH_{2m+1}$ in which m is an integer selected from the group consisting of 1 to 14, inclusive, R_3 represents an aromatic hydrocarbon radical selected from the class consisting of the benzene and naphthalene radicals, and A represents a substituent selected from the group consisting of hydrogen and lower alkyls, and their addition salts with acids.

2,528,864
DOOR LATCH
George E. Curtiss, Jr., Penn Wynne, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Original application October 27, 1943, Serial No. 507,839, now Patent No. 2,451,380, dated October 12, 1948. Divided and this application December 7, 1946, Serial No. 714,883
2 Claims. (Cl. 292—336)



1. In door latching apparatus, the combination with support structure, of a latch member having a portion adapted for interlocking engagement with a keeper, means mounting the latch member upon said support structure for oscillation with respect thereto, means to control the oscillatory movements of said latch member and cause said member to move between a retracted position with respect to the keeper and an extended position in which said member is in interlocking engagement with the keeper, said control means comprising a slot formed in the support structure and a follower pin, said pin being associated with said latch member and engageable with said slot at a position spaced from said mounting means, a spring exerting force tending to advance the latch member into said extended position in interlocking engagement with the keeper, means effective to hold said member in retracted position and releasable in response to closing of the door, the said slot being inclined with respect to the path of movement of the latch member and operable in cooperation with the said follower pin and under the influence of said spring to effect movement of the latch member with progressively amplified force into said extended position in interlocking engagement with the keeper.

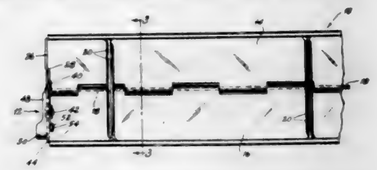
2,528,865
ENDLESS BELT CONVEYER DRIVE
George R. Dale, Los Angeles, Calif.
Application May 5, 1947, Serial No. 745,915
2 Claims. (Cl. 198—203)



1. A live roller conveyor including in combination: a supporting frame having an elongated guideway formed therein; a series of rollers transversely mounted along said guideway; an endless belt adapted to actuate said rollers by frictional engagement therewith; a pair of rollers laterally spaced apart on opposite sides of said belt so as to frictionally engage it therebetween, at least one of said pair of rollers having an axle projecting from each end and inserted through a longitudinal slot formed in each side of said frame; an opposing pair of reciprocable bearing blocks apertured to receive the ends of said axle therein; an adjustable stop screw disposed at times to bear against each of said bearing blocks whereby the spacing of said blocks and their roller from the adjacent roller of said pair is limited; driving means operatively connected to one of said pair of rollers, an apertured plate spaced from each of said blocks and freely slidable over its respective regulating screw, a coil spring circumposed on each of said screws and bearing respectively against said block and its adjacent plate, and other adjusting means adapted to regulate the displacement of each of said plates from its adjacent block.

2,528,866
LOOSE-LEAF BINDER DEVICE
James C. Dawson, Jr., Kirkwood, Mo., assignor to Loose Leaf Metals Co., St. Louis, Mo., a corporation of Missouri
Application August 5, 1946, Serial No. 688,473
4 Claims. (Cl. 129—17)

1. In combination, a loose leaf binder metal including a pair of hinged body members, one of said body members having an end plate with a portion formed to provide a shoulder, said portion being inwardly offset, the other body member having an end plate overlapping said shouldered portion and being in the same plane as the remaining portion of the end plate of said one body member, and forming therewith a smooth extension surface when said body members are in closed position, a latch member pivoted on the

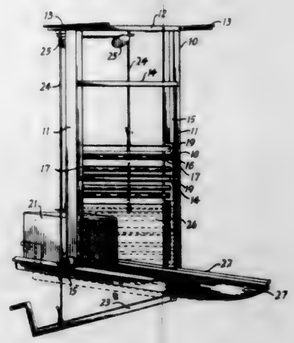


end plate of said other body member, said latch member being disposed to engage said shoulder when said body members are in closed relation to lock the loose leaf binder metal in closed position, and means for releasing the engagement of the latch member with the shoulder to permit the loose leaf binder metal to be opened.

2,528,867
PRODUCTION OF THERMALLY HARDENABLE BORON-TITANIUM STEELS
Maurice J. Day, Oak Park, Ill., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application June 28, 1948, Serial No. 35,733
1 Claim. (Cl. 75—129)

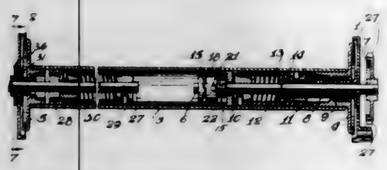
The method of improving the efficiency of boron additions to thermally hardenable steels containing over .006% nitrogen comprising adding at least .02% titanium to the molten steel prior to adding the boron, the titanium addition being at least five times the amount the nitrogen content exceeds .006%.

2,528,868
CONVEYER GATE
Fred S. Dederich, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application December 26, 1947, Serial No. 793,991
2 Claims. (Cl. 198—1)



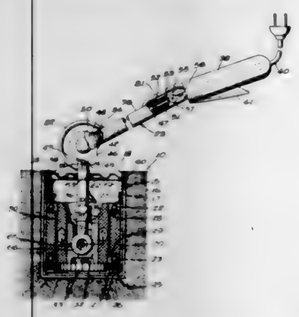
1. In combination an endless belt conveyor and a conveyor gate rising above and perpendicular to said belt conveyor, said gate having a plurality of rotatable rollers positioned within a framework, said framework movably positioned between a pair of vertical channeled angle irons defining the sides of said conveyor gate.

2,528,869
CONTROL MECHANISM FOR FIRE DOORS
James Paul De Laney, Chicago, Ill.
Application May 8, 1947, Serial No. 746,831
6 Claims. (Cl. 160—7)



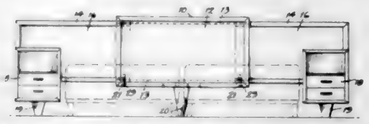
1. Operating mechanism for fire door of the rolling shutter type adapted for both manual and automatic operation and comprising, in combination with a drum, a first adjustable means including a shaft, a helical spring adapted to impart torque to said drum and a locking mechanism for said spring under control of a fusible member, a second adjustable means including a shaft and a helical spring adapted to cushion the downward movement of said door, and adjustable stopping means associated with said first shaft adapted to stop the upward motion of said shutter during the manual operation of said door and to transfer torque from said first shaft to said drum during automatic operation thereof.

2,528,870
FLOOR PROCESSING DEVICE
Enos A. Detweiler, Chicago, Ill.
Application April 4, 1945, Serial No. 586,561
7 Claims. (Cl. 15—49)



1. In a floor processing device of the character described, a driven rotary means having a cylindrical portion and an adjacent circular end portion adjoining said cylindrical portion, yielding surface-treating material mounted on said portions and extending outward therefrom, said yielding material being of rectangular configuration in longitudinal profile with the corners of the configuration substantially filled in whereby with either said cylindrical portion or said end portion resting on the floor adjacent a vertical wall the yielding material will extend to the juncture of the wall and floor, said yielding material being of sufficient depth to conform by yielding action to the configurations of various moldings at such juncture whereby the device may be used for simultaneously processing contiguous floor, molding and wall surfaces, and handle means adapted for manual guidance of the device in said two positions.

2,528,871
HEADBOARD STRUCTURE FOR BEDSTEADS
Basil C. Deuschle, Southport, Conn., assignor to The Fairfield Lumber and Supply Co., Fairfield, Conn., a corporation of Connecticut
Application July 19, 1946, Serial No. 684,830
1 Claim. (Cl. 5—183)



A self-supporting headboard structure for unattached relatively freely movable self-supporting bedsteads, comprising a central headboard panel section disposed in a vertical plane and having longitudinal guideway means, a pair of side panel sections disposed in a vertical plane and engaged with said guideway means for longitudinal adjustment movement at each side of the vertical center line of said central headboard panel section and each consisting of a normally concealed portion disposed in overlapping relation to said central headboard panel section inwardly of one side edge thereof and a normally exposed portion projecting beyond said one side edge, and a pair of forwardly extending support members respectively secured to the forward sides of the normally exposed portions of said side panel sections and having forward sides disposed in a vertical plane parallel to and forwardly spaced from the vertical planes of said central and side panel sections, floor engaging means at the underside of said respective support members having floor-engaging surfaces for engaging the floor at points contiguous to both the vertical plane of the side panel sections and the vertical plane of the forward sides of said support members, said side panel sections adapted through inward and outward adjustment to vary the distance between said support members to dispose them at each side of bedsteads of various widths when such bedsteads are respectively arranged forwardly of and contiguous to said central headboard panel section, the normally concealed portions of said side panel sections when extended into exposed relation providing headboard extensions for said central headboard panel section.

2,528,872
ADJUSTABLE DOMESTIC TOOL CARRIAGE
Wade W. Dick, Shreveport, La.
Application August 27, 1948, Serial No. 46,528
5 Claims. (Cl. 280—43)

1. A domestic tool carriage comprising an elongated body portion including a top surface, a pair of parallel spaced legs rigidly secured to said body portion, depending from said body portion adjacent an end of the same in the lower ends of which legs castors are rotatably mounted, a second pair of parallel spaced legs slidably and rotatably mounted in said body portion adjacent the opposite end of said body portion, each of which legs is provided with a pair of longitudinally extending flat surface portions lying in right-angularly intersecting planes, each of said second mentioned legs terminating in a bifurcated end in which a wheel is rotatably mounted, a spring actuated clamping means provided with presser fingers adapted to contact said flat surfaces of said second mentioned legs to frictionally hold said legs in rotated positions in said body portion, whereby said carriage may be rested in a horizontal position on separate treads of a stairway or the like and whereby said second mentioned legs may be rotated and held in positions to align said wheels carried by the same into crosswise position with respect to the length of said carriage.

2,528,873
PIPE CHUCK
James A. Dorman, Elsie, Mich.
Application April 29, 1949, Serial No. 90,381
7 Claims. (Cl. 279—33)

1. A pipe chuck adapted to be connected with a driving shaft and to be inserted in a pipe including a plurality of clamping dogs and means for pivoting said dogs into pipe engaging clamping position upon rotation of the chuck in one direction and for retracting them into pipe releasing idle position upon rotation of the chuck in the opposite direction.

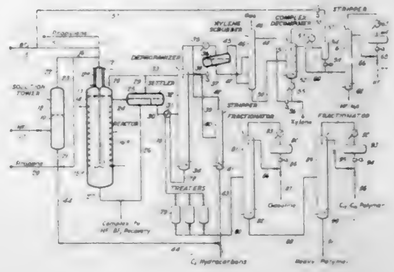
2,528,874
TELEPHONIC CALL MAGNETO
Arthur Ducruet, Paris, France
Application May 2, 1950, Serial No. 159,621
In France October 13, 1943
1 Claim. (Cl. 171—209)

In a telephonic call magneto designed to be interchangeable with a telephonic calling dial, in combination, a magnetic rotor having a flat cylindrical shape magnetized for north poles in two opposite quadrants, and for south poles in the two opposite quadrants adjacent to the former ones, and rotatable from one of four rest positions to another of these positions, a stator of a toroidal shape formed by superposition of annular laminae cut out in four places by notches the sides of which are situated in radial planes of the torus, the angular development of each notch being the same as that of the polar pieces located between each two notches, generating coils wound on said notches, intermittently driving means of the rotor comprising a lever, a toothed sector having a radius but slightly smaller than that of the magneto itself and an angular development of about 60°, and a free wheel device designed to supply at least two full revolutions of the rotor for one 60° stroke of the driving lever, said driving means having rest positions in which the rotor poles face exactly the stator polar pieces, and simultaneously serving for actuating, in their rest positions, the connection contacts.

2,528,875
PROCESS FOR MAKING RAW WATER ICE
Arthur Charles Embshoff, Western Springs, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 16, 1949, Serial No. 105,260
11 Claims. (Cl. 62—172)

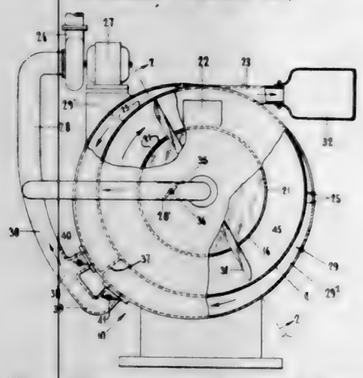
11. A process of manufacturing raw water ice from an alkaline raw water containing metal salts in solution comprising the steps of contacting said water with hydrogen exchange material, then subjecting the water to aeration to remove carbon dioxide therefrom, contacting the aerated water with an anion exchange material, then degasifying the water by vacuum deaeration, and thereafter quiescently freezing the water in substantially demineralized and gas free condition.

2,528,876
PROPYLENE POLYMERIZATION WITH HF-BF_3
Bernard L. Evering and Edwin F. Peters, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 3, 1948, Serial No. 37,038
10 Claims. (Cl. 260—683.15)



1. The method of producing C_{12}–C_{15} polymers by the polymerization of propylene with an HF-BF_3 catalyst which method comprises contacting said propylene and said catalyst at a temperature in the range of about 40 to 140° F. under a pressure sufficient to maintain both the propylene and HF in liquid phase condition and employing a sufficiently large amount of an inert diluent in which HF is soluble to an appreciable extent and a sufficiently small amount of HF in the catalyst composition so that the HF will be completely dissolved in the diluent-propylene mixture during the polymerization.

2,528,877
MACHINE WITH PERFORATED ROTATING DRUM FOR FILLING CUSHIONS AND PILLOWS WITH AIR FREE FIBROUS MATERIALS
Robert J. Goldberg, New York, N. Y.
Application December 18, 1946, Serial No. 716,896
3 Claims. (Cl. 226—43)

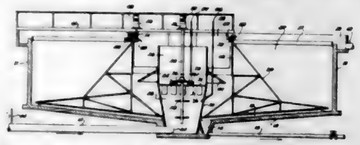


1. In a filling machine for filling containers with air-free fibrous material, comprising a perforated cylindrical casing, a perforated drum rotatably mounted in said casing and having arms diametrically disposed therein, said casing having having a hopper in one side wall and a nozzle in tangential relation therewith, a suction chamber fixedly secured around the outer periphery of said casing, suction means in communication with said suction chamber, and with said filling material in said casing through said perforations, whereby fibrous material having interstices between the fibers and deposited in said hopper is fed to said arms between said perforated drum and said perforated casing and is fed by said arms into and through said nozzle while the entrained air is removed from said filling material through said interstices from opposite sides of said material.

2,528,878
POCKET HANDKERCHIEF HOLDING FRAME
Searcy J. Graham, Denver, Colo.
Application April 16, 1947, Serial No. 741,717
1 Claim. (Cl. 24—3)

A device for holding and displaying a handkerchief in a pocket comprising: a horizontally elongated frame adapted to be positioned within a pocket adjacent the top thereof; a plurality of parallel, diagonal partition members extending across said frame at an incline to the axis of, and lying in the same plane with, said frame and forming overlapping handkerchief receiving openings in said frame through which the corners of a handkerchief may be pulled upwardly in spaced-apart overlapping relation; and a U-shaped supporting device secured at its extremities to the extremities of said frame and extending downwardly into said pocket to hold the handkerchief downward therein and to hold the frame upward therein.

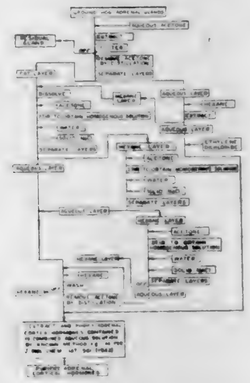
2,528,879
CLARIFYING APPARATUS
Walter H. Green, Batavia, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application July 27, 1946, Serial No. 686,654
15 Claims. (Cl. 210—16)



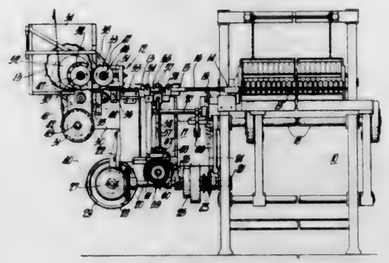
1. Liquid treating apparatus comprising a basin having a floor, an annular partition structure rising from the floor of said basin at the center thereof, a horizontal partition at an intermediate elevation within said partition structure substantially above the floor thereof dividing said annular partition structure into lower and upper chambers and providing a restricted passageway from said lower to said upper chamber, ports through the said partition structure below the level of said horizontal partition and a substantial distance above the floor of the basin, a pumping member associated with said passageway and adapted on operation thereof to cause a flow from said lower chamber into said upper chamber in excess of the flow of liquid to be treated and motor driven means for driving said pumping member, vertical baffles extending from the outside of the upper portion of said partition structure, a draft tube rotatably mounted on said baffles, a solids collecting chamber in the floor of said basin, a sludge scraping mechanism suspended from said draft tube, motor driven means for rotating said draft tube and scraping mechanism to impel solids settling on the floor of said basin to said solids collecting chamber, an inlet positioned to discharge liquid to be treated into said lower chamber, a solids outlet from said solids collecting chamber, and a launder adjacent to the top of said basin.

2,528,880
EXTRACTION OF ADRENAL GLANDS
William J. Haines and Richard H. Johnson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
Application August 6, 1947, Serial No. 766,884
20 Claims. (Cl. 167—77)

1. In a method for the separation of adrenal cortex hormones from adrenal glands and the fat ordinarily intimately associated therewith, the steps of: (1) extracting adrenal glands with an aqueous organic solvent mixture selected from the group consisting of aqueous water-soluble ketones and aqueous water-soluble alcohols; (2) removing superfluous gland from the extract; (3) substantially completely removing the organic solvent from the aqueous solution by distillation; (4) separating the aqueous mixture into a fat layer A and an aqueous layer B; (5) dissolving the fat layer A in a solvent selected from the group consisting of aliphatic and cycloaliphatic hydrocarbons containing from five to eight carbon atoms, inclusive; (6) extracting the adrenal cortex hormones from the fat solution of step (5) with a solvent selected from the group consisting of aqueous water-soluble ketones and alcohols; (7) separating the hydrocarbon layer from the aqueous organic layer of step (6); (8) substantially completely removing the organic solvent from the aqueous organic layer of step (7); and (9) extracting and purifying the adrenal cortex hormones contained in the aqueous layer B and the aqueous extract from step (8) according to conventional procedure.

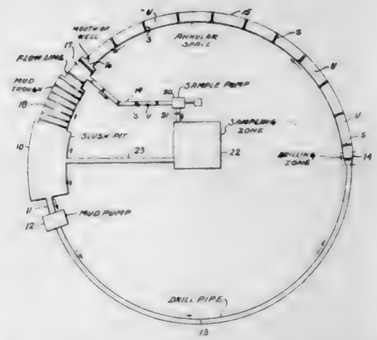


2,528,881
WEFT WIRE FEED MECHANISM
Noah S. Harter, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 4, 1947, Serial No. 789,626
15 Claims. (Cl. 139—127)



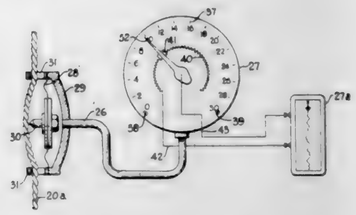
1. In a wire fabric loom, a weft wire feed mechanism comprising rotatable means adapted optionally to mount crimping rollers or smooth faced pinch rollers, and rotatable feed rollers adapted to be driven continuously and to engage and disengage wire alternately to feed the same from said first named rotatable means, the axes of said feed rollers being disposed at right angles to the axes of said first named rotatable means.

2,528,882
METHOD OF LOGGING WELLS
John T. Hayward, Tulsa, Okla.
Application November 24, 1945, Serial No. 630,573
19 Claims. (Cl. 73—153)



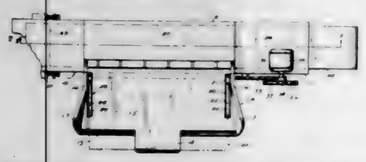
1. The method of logging wells being drilled by the rotary method in which a drilling fluid circulated through the well is analyzed at the top of the well for the contents of the strata portions dispersed therein by the drill, comprising, modulating a drilling operation at a predetermined frequency adapted to correspondingly vary the rate of dispersal by said drill of said contents of said strata per unit volume of said drilling fluid, and analyzing said drilling fluid for said contents appearing therein in a concentration pattern corresponding to said frequency.

2,528,883
WEIGHT ON BIT INDICATOR
John T. Hayward, Tulsa, Okla.
Application January 31, 1946, Serial No. 644,534
5 Claims. (Cl. 73—151)



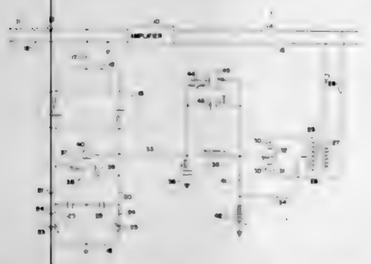
5. A weight-on-bit register for use with earth boring apparatus which includes a drilling string, means to support said drilling string and load-responsive means operatively connected with such support means, said register comprising, a weight registering gauge having a spindle adapted to be rotatively driven by said load-responsive means in one direction for increasing loads and in the opposite direction for decreasing loads on said support means over a range corresponding to the maximum weight attained by said drilling string, a pointer driven by said spindle, spaced stop means arranged in the path of said pointer, means effective upon engagement of said pointer with either of said stop means to permit relative rotation of the pointer and spindle to limit the movement of the pointer in both directions to a pre-determined range less than that covered by the spindle.

2,528,884
CAN FEEDING MACHINE
Joseph M. Hemovich, Sunnyvale, Calif.
Application June 10, 1946, Serial No. 675,707
2 Claims. (Cl. 214—1.1)



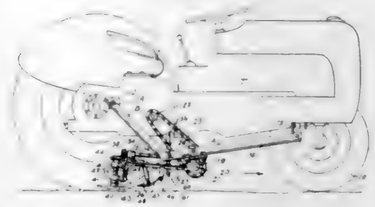
1. In a can feeding machine, a trough adapted to slidably receive a box containing a plurality of cans, a conveyor extending substantially at right angles to said trough, said trough having a discharge end disposed at one side and above said conveyor, a plurality of rockers pivotally mounted on the discharge end portion of said trough, said box being supportably receivable by said rockers and tiltable thereon to a dumping position above said conveyor, said rockers comprising double arm cranks having relatively long arms and relatively short arms and being freely pivotable with respect to said trough, the discharge end portion of said trough being formed with longitudinally extending recesses, said long arms resting in said recesses and said short arms extending upwardly therefrom when said rockers are in their box receiving position, each of said rockers adapted to engage the corner portions of the box for retention thereof, the free end portions of said short arms terminating in angulated box engaging hooks whereby when said rockers are pivoted the box will be retained by said hooks and the cans will be discharged onto said conveyor.

2,528,885
AUTOMATIC VOLUME CONTROL CIRCUIT
Charles E. Hendricks, Tulsa, Okla., assignor to Century Geophysical Corporation, a corporation of Delaware
Application July 3, 1948, Serial No. 36,851
8 Claims. (Cl. 179—171)



5. In a seismograph amplifying system, an automatic volume-control circuit, comprising, an amplifier, a variable resistor in the form of a thermionic tube connected in shunt across the input side of said amplifier, a source of bias potential for said tube, rectifier means supplied from the output side of said amplifier, a filter supplied from said rectifier means and comprising a resistor and a condenser, and a second thermionic tube supplied from said filter and connected to isolate said condenser from said first-named tube whereby the respective operate-time and deoperate time of said amplifier remain substantially constant regardless of resistance variation of said first-named tube due to occurring variations in signal intensity from the output side of said amplifier.

2,528,886
BEET TOPPING ATTACHMENT FOR TRACTORS
Taze W. Jones, Frederick, and George M. Loveland, Denver, Colo.; said Jones assignor to said Loveland
Application March 20, 1948, Serial No. 16,016
6 Claims. (Cl. 56—121.4)

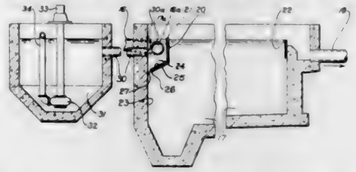


1. A beet topping attachment for farm tractor comprising a support frame having two spaced parallel side members connected at one end by a transverse frame member, each side member having a bearing on its under surface, a shaft mounted for rotation in said bearings, the shaft extending across the frame at right angles to the side members, a topper frame comprising two spaced parallel side members, each provided with a bearing adjacent one end, the shaft projecting through the bearings forming a support for one end thereof, plates or the like, supported on and secured to the side members, two spaced bearings supported on said plates in axial alignment, one near each end of the frame, a shaft mounted for rotation in the bearings, a bevel gear secured to each end of said shaft, means for rotating the last named shaft comprising a bevel gear carried by the first shaft, the free ends of the last named side members having downwardly extending arms, means comprising a plate, or the like, for interconnecting the downwardly extending arms, two vertically spaced bearings secured to said arms in axial alignment, a shaft journaled in said last named bearings, the upper end of the last named shaft having a bevel gear in engagement with the bevel gear on the second named shaft whereby the three shafts will rotate in unison, a cutting disk secured to the lower end of the vertical shaft, a guide plate connected with the frame to the front of the cutting disk for rocking movement about a pivot positioned above the level of the cutting disk, said guide plate being downwardly ranging towards the cutting disk, and means for limiting the downward movement of said plate.

2,528,887
MEANS FOR PURIFYING SEWAGE AND THE LIKE
Fred G. Kiekhoefel, Astoria, and Louis J. Nemecsek, New York, N. Y., assignors to Ralph B. Carter Company, Hackensack, N. J., a corporation of New York
Application December 18, 1947, Serial No. 792,550
3 Claims. (Cl. 210—5)

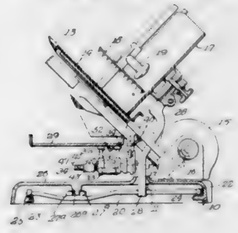
1. In an apparatus for purifying sewage having a receiving tank, an intermediate dosing tank, a trickling tank, and a final settling tank, the combination of a pipe leading from the trickling tank and having its orifice in the set-

tling tank, a discharge pipe for the settling tank having its orifice adjacent to the orifice of the first named pipe, and a substantially vertical partition wall disposed to connect opposite walls of the settling tank at parts thereof to separate both of said orifices from the main body of the settling tank, said partition wall extending downwardly below said orifices and having its lower edge spaced from a wall of the settling



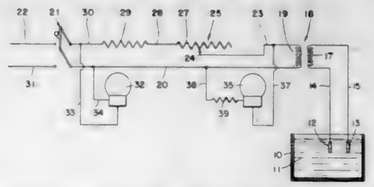
tank to provide a conduit passage, the side of the partition wall facing the orifices forming with the wall of the settling tank a mixing chamber, whereby the mixing chamber formed with the settling tank by said partition wall receives trickling tank liquid from the trickling tank pipe orifice, receives settling tank liquid through said conduit passage, and the contents of the mixing chamber passes out of the said discharge pipe.

2,528,888
RECIPROCATING RECEIVING TRAY FOR MEAT SLICING MACHINES
Cornelis Klingens, La Porte, Ind., assignor to U. S. Slicing Machine Company, Inc., a corporation of Indiana
Application November 13, 1946, Serial No. 709,615
In Great Britain May 30, 1946
1 Claim. (Cl. 146—94)



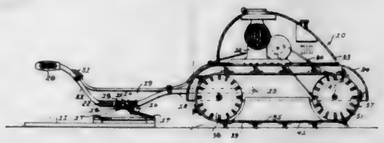
A slicing machine of the character described comprising a hollow base, an inclined rotary slicing knife, an inclined substance support for feeding substance toward the cutting plane of said knife under aid of gravity, an adjustable gauge plate for determining thickness of slice, a movable carrier located within said hollow base, an elongated slot through the top of said base, an upright supporting bar mounted on said carrier and extending upwardly through said slot, the sides of said slot being flanged upwardly in close proximity to said bar, means mounting said substance support on the upper end of said bar, whereby said substance support may be moved past the cutting plane of said knife, a slice receiving tray mounted on said bar and movable therewith, a plurality of rods depending from said tray, a like plurality of tubular members adapted to receive telescopingly said depending rods, whereby said tray will be maintained in a horizontal plane at all times, but may be moved vertically, a leading screw disposed horizontally below said tray, a sleeve surrounding said screw and movable lengthwise thereof, a link pivoted at one end to said tray and at its other end to said sleeve, a dog pivotally mounted on said link and engaging the threads on said screw, whereby rotation of said screw will cause said tray to be raised or lowered, pawl and ratchet means to rotate said screw intermittently by movement of said carrier, a striker attached to said gauge plate and adjustable therewith, and a pivotally mounted lever carrying said pawl and adapted to contact said striker upon reciprocation of said carrier to rotate said screw and lower said tray, the adjusted position of said gauge plate and striker determining the amount of movement of said horizontal tray in a vertical plane.

2,528,889
SOLUTION CONCENTRATION INDICATOR
Arthur L. Kohl, Los Angeles, Calif., assignor to Turco Products, Inc., Los Angeles, Calif., a corporation of California
Application November 23, 1946, Serial No. 711,980
1 Claim. (Cl. 175—183)



A solution minimum concentration indicator comprising, in combination with a tank adapted to contain a solution; a primary electrical circuit, a secondary circuit having electrical induction coupling therewith, a pair of spaced apart contact terminals in the secondary circuit adapted to be immersed in solution in the tank, an electronic lamp having predetermined ionization characteristics shunt-mounted in the primary circuit, and variable current control means mounted in the primary circuit to vary shunt operation of the lamp whereby the difference in current potential across the lamp shunt comprises a function of current flow in the secondary circuit, including current flow in the solution between said contact terminals, a fixed member presenting calibrated temperature indicia, and a dial, mounted to rotate relative to said member carrying a pointer for selective registration with said indicia and carrying indicia calibrated in percentages of solution concentration units, and a pointer operatively connected to said variable current control means, said pointer being movably mounted for selective registration with the last named indicia.

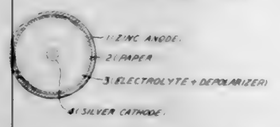
2,528,890
SNOW TRACTOR
Robert A. Lawrence, Brimley, Mich.
Application October 22, 1947, Serial No. 781,445
1 Claim. (Cl. 180—5)



In combination, a casing, a propelling track supported by the casing for engagement with the

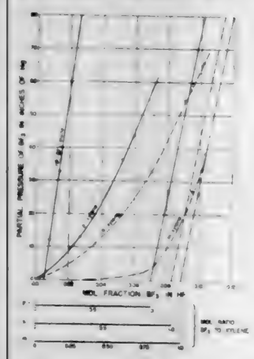
ground, a power plant in said casing for operating said propelling track, said power plant having a clutch and a throttle, a push structure hinged to said casing, a plate portion at the end of said push structure and having a socket, a toboggan, a plate member secured to the rear of said toboggan, a ball-like projection extending upwardly from said plate member and anchored within said socket, a steering handle for steering said toboggan over the ground, said steering handle extending in the direction of and overlying said toboggan, and having a bifurcated end fitting about said plate portion, hinge means pivoting said steering handle to said plate portion for movement in a plane substantially vertical to said toboggan, a flexible clutch actuating cable connected to said steering handle, a hand grip slidably mounted on an end of said steering handle, and a flexible throttle actuating cable connected to said hand grip.

2,528,891
PRIMARY BATTERY DEPOLARIZER AND METHOD OF MAKING THE SAME
Herbert E. Lawson, Silver Spring, Md.
Application March 26, 1945, Serial No. 584,889
4 Claims. (Cl. 136—137)



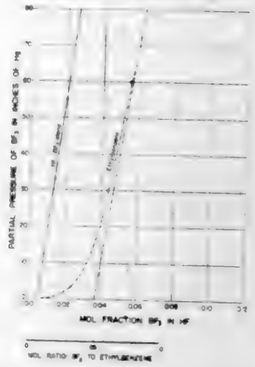
1. A primary cell comprising: an anode; a cathode; a depolarizer of silver oxides formed by electrolytic oxidation of a soluble silver salt in an acid bath having a pH of approximately 4, followed by partial decomposition of the resulting black crystals in an aqueous caustic solution which causes gas evolution until substantial equilibrium is obtained; and an alkaline electrolyte dispersed throughout said depolarizer.

2,528,892
XYLENES SEPARATION
Arthur P. Lien, Hammond, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 25, 1948, Serial No. 46,136
8 Claims. (Cl. 260—674)



1. A process for the concentration of individual xylene isomers from a solution of at least two isomeric xylenes in liquid hydrogen fluoride and BF_3, said solution containing at least 1 mol of BF_3 per mol of contained xylenes, which process comprises withdrawing BF_3 from said solution in an amount sufficient to reduce the concentration of BF_3 in said solution to a value between about 0.5 and about 0.9 mol per mol of aromatic hydrocarbons originally present in said solution and to convert said solution into two immiscible liquid layers, one liquid layer consisting essentially of xylenes in a ratio different from their ratio in said solution and the other liquid layer consisting essentially of a second solution of xylenes in liquid hydrogen fluoride and BF_3, the ratio of xylenes in said second solution being different from the ratio of xylenes in the original solution, and separating said liquid layers from each other.

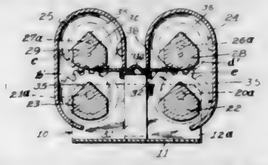
2,528,893
ETHYLBENZENE CONVERSION
Arthur P. Lien, Hammond, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 25, 1948, Serial No. 46,137
6 Claims. (Cl. 260—672)



1. A process for the disproportionation of ethylbenzene to produce meta-diethylbenzene in a quantity in substantial excess of the thermodynamic equilibrium quantity, which process comprises contacting ethylbenzene in the absence of other reactive hydrocarbons with at least about 10 volume percent of liquid hydrogen fluoride and with at least about 0.3 mol of BF_3 per mol of ethylbenzene at a temperature between about 0° F. and about 175° F. under a pressure sufficient at least to maintain a liquid phase and separating benzene and meta-diethylbenzene from the reaction products.

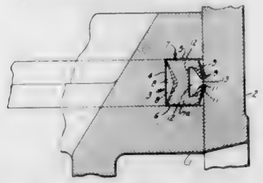
2,528,894
SAFETY RAZOR BLADE SHARPENER
Adam Malewski, Philadelphia, Pa.
Application April 21, 1947, Serial No. 742,860
4 Claims. (Cl. 51—81)

1. A razor blade sharpener, comprising a casing formed to provide a bottom and two side walls, two sharpening rollers rotatably mounted in the lower portion of said casing, two covering caps pivotally mounted between said side walls, a sharpening roller carried by each cap for coaction with one of the first named rollers when the caps are in closed positions, a table fixedly mounted horizontally above the first named rollers to support a blade to be sharpened, projections spaced along the longitudinal center of the upper side of said table for the engagement therewith of the usual openings provided in said blade to center and align the same relatively to said sharpening



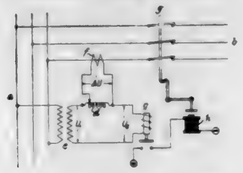
rollers, the inner sides of said caps engaging the upper surface of said blade at opposite sides of said projections to retain the blade in place during the sharpening operation, and means for imparting rotary motion to said sharpening rollers.

2,528,895
SEAL RING
Keith L. Mathews, San Francisco, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California
Application October 30, 1945, Serial No. 625,469
2 Claims. (Cl. 309—23)



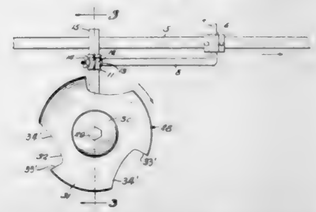
1. In combination with a cylinder and piston wherein the piston is provided with an annular seal ring receiving channel; an elastomer seal ring snugly fitting within said channel, the inner face of said ring being non-reentrantly concave, said ring being formed adjacent its conical outer face with an undercut channel symmetrically disposed with respect to the medial plane of the ring, the maximum outer diameter of said ring being greater than the outer diameter of said piston when said ring is in its uncompressed and unstressed condition.

2,528,896
PROTECTIVE ARRANGEMENT FOR ELECTRIC LINES
André Matthey-Doret, Wettingen, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland
Application September 25, 1944, Serial No. 555,732
In Switzerland August 4, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 4, 1963
7 Claims. (Cl. 175—294)



1. For combination with a circuit breaker arranged at a power station to interconnect a relatively long branch circuit and a main circuit energized with alternating current and having tripping means, a protective relay at said station and which controls said tripping means, an energizing circuit for said relay extending from said main circuit, an impedance having a magnitude corresponding to the normal line impedance from the power station to substantially the middle of said branch circuit, and means producing a voltage across said impedance derived from the current flowing in said branch circuit, said voltage being of substantially opposite phase to the energizing voltage obtained from said main circuit upon an occurrence of a short circuit at the end of said branch circuit remote from said power station and opposed to the effect produced by energizing voltage with respect to energization of said relay.

2,528,897
COTTON CHOPPER AND BEET TOPPING DEVICE
Thomas H. Mayfield, Roby, Tex.
Application January 10, 1947, Serial No. 721,253
1 Claim. (Cl. 97—213)

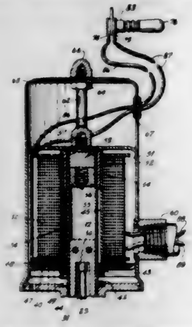


In a cultivator a disc formed marginally with wide shallow indentations spaced widely apart to define between them wide peripheral blades, the outer edges of said blades being arcuate and being struck on a common center, said outer edges being sharpened to provide cutting knives, said indentations each being approximately L-shaped and having one short edge disposed substantially radially of the disc and defining the leading edge of the blade next following said indentation, the other edge of the indentation intersecting the short edge at an obtuse angle and extending in a gradual curve struck oppositely to and intersecting with the outer edge of the blade next preceding the indentation, to define the trailing edge of said next preceding blade.

2,528,898
PILOT INDICATOR FOR SOLENOID VALVES
Douglas K. McIlvaine, Des Plaines, Ill., assignor to Alco Valve Company, University City, Mo., a corporation of Missouri
Application February 2, 1946, Serial No. 645,166
3 Claims. (Cl. 137—139)

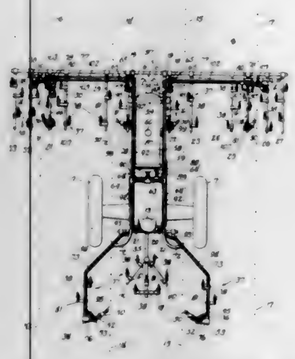
2. In a valve, a housing having a valve mounted therein for movement from first to second position, a first electromagnetic coil, a second electromagnetic coil separated from the first coil, a magnetic core connected with the valve and operably disposed with respect to the first coil so that upon energization of the coil the core will be moved and the valve operated from first to second position, the second coil being positioned and the core being sized so that the second coil is magnetically coupled with the first coil by the core only when the core has been moved by the first coil away from its first position and toward its second position, and circuit connections between the ends of the second coil, whereby a circuit may

be energized only when the valve is in second position, and an indicating means in the circuit



connections to indicate that the valve is in second position.

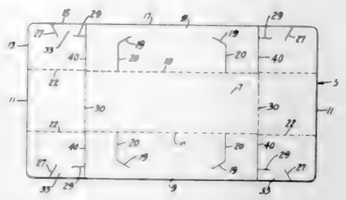
2,528,899
APPARATUS FOR FLAME CULTIVATION OF PLANTS
Price C. McLemore, Montgomery, Ala.
Application April 16, 1945, Serial No. 588,564
11 Claims. (Cl. 47—1)



1. A flame cultivator attachment adapted to be connected to a vehicle comprising a cultivator rig adapted to be mounted on said vehicle to extend laterally thereof for travel along a crop row and carrying an earth working means, adapted to have engagement with the ground, and a burner supported on said rig above the ground level for projecting a flame upon the ground in a direction generally laterally away from said vehicle and inwardly of the crop row, said burner being adapted to float relative to the ground level by the engagement of the earth working means with the ground.

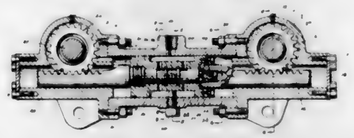
2,528,900
CONSTRUCTION OF CONTAINERS
Reginald B. Meller, Oakland, Calif., assignor to Bemiss-Jason Company, a corporation of California
Application February 26, 1945, Serial No. 579,727
7 Claims. (Cl. 229—35)

1. In a folding box having a bottom, a side wall hingedly connected to said bottom along a side fold line, an end wall hingedly connected to said bottom along an end fold line intersecting said side fold line at the box corner, a top wall hingedly connected to said end wall along a top fold line, an end wall side flap hingedly connected to said end wall, said side flap being foldable into face-to-face position with said side wall, said side wall having a cut side edge at the corner forming an angle with the side fold line equal to the angle which said end panel forms with the main panel in the assembled corner, an improved glueless interlock for maintaining said several walls in box forming position with respect to one another, said interlock being formed by an internal cut of bent outline in said side wall forming an internal tongue in said side wall adapted to be resiliently flexed with respect to the remainder of said side wall, the tip of the internal tongue extending towards the side flap when said side flap is moved into locking position about said bottom fold line, said side flap having an external cut extending into it from an outer edge, said external cut coinciding in interlocking position with a portion of said internal cut in line-to-line, as distnguished from point-to-point, coincidence, said external cut forming an external tongue on said flaps resiliently deflectable with respect to the remainder of said flap, said external tongue being bordered by said external cut and at least an outer edge of said flap, the distance from the end of the external tongue to the point of intersection of said bottom fold line with said end fold



line being less than the distance from said point of intersection to the end of the internal cut farthest from the side fold line, said flap being partially insertable through said internal cut by a motion towards said bottom, whereby said external tongue moves under said internal tongue and both tongues resiliently deflect each other with respect to the planes of the flap and wall of which they form a part, respectively, said internal cut and said external cut providing cut edges on the respective wall and flap, portions of which in the position in which said side edge abuts said end wall in edge-to-surface position are in substantial coincidence permitting an edge portion of one cut to engage the coinciding edge portion of the other cut in edge-to-edge as distinguished from point-to-point position, the ends of the cuts lying on opposite sides with respect to the portion of interlock so that one end of the internal cut closest to the portion of interlock lies to one side of said portion of interlock and that the inner end of the other cut lies on the other side of said portion of interlock, said external and internal tongue lying face-to-face and deflecting each other into said edge-to-edge engagement of said cuts, the easily deflectable tip portion of each tongue lying next to the less easily deflected root portion of the other tongue and vice versa, whereby the inherent stiffness of the stock is utilized in assisting the respective edges automatically to snap into engagement and remain in engaged position thus maintaining the several box walls in box forming position.

2,528,901
COMBINED MANUAL AND FOLLOW-UP PRESSURE FLUID POWER UNIT
John F. Morse, Hudson, Ohio
Application October 6, 1944, Serial No. 557,481
3 Claims. (Cl. 121—41)



1. A power actuating device having a cylinder, a piston slidably mounted in the cylinder and a valve slidably mounted in a blind bore in the piston and having an opening communicating from the inner end of said bore to the face of the piston upon which said bore opens, the wall of the cylinder having an inlet port and an outlet port for fluid under pressure, said piston having a longitudinal inlet channel and a longitudinal outlet channel on its outer surface, the inlet channel being continually in communication with the inlet port and the outlet channel being continually in communication with the outlet port at all positions of the piston, said piston also having independent transmission passages leading to opposite ends of the piston, transverse passage means communicating with the inlet channel and a second transverse passage communicating with the outlet channel, means attached to the valve to shift it relatively to the piston to place the transmission passages in communication with either said transverse passage means, or said second transverse passage, selectively, and a driven member attached to the piston.

2,528,902
BRIGHT NICKEL PLATING
Paul W. Moy, Euclid, and Walter P. Karash, Cleveland, Ohio, assignors to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 12, 1947, Serial No. 754,276
7 Claims. (Cl. 204—49)

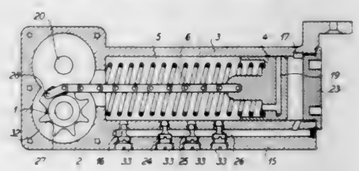
1. An aqueous, acid electroplating bath for production of a bright cathodic deposit of nickel, said bath essentially consisting of a nickel ion yielding material selected from the group consisting of nickel sulfate, nickel chloride and mixtures thereof, a buffer and, as an addition agent, a material of the class consisting of thiophane sulfonic acid and its alkali metal, nickel and cobalt derivatives wherein the metal atom replaces the hydrogen atom of the SO_3H group, said addition agent being present in concentration from 0.005 to 0.5 gram per liter, the pH of said solution being from 3.0 to 5.0.

2,528,903
RETRACTABLE WINDSHIELD VISOR
Christabel S. Nichols, Fairfield, Conn.
Application February 28, 1946, Serial No. 650,779
1 Claim. (Cl. 296—95)

In a car including a windshield, a transversely curved top over said windshield provided with a similarly curved slot in its front wall just over said windshield, a one piece visor formed of a thick rigid sheet of molded plastic transversely curved similarly to said top and slot, said transverse curvature and thickness being such as to add sufficient strength and rigidity to the one piece visor so that it is self-supporting when in extended position forwardly of the slot against wind and other pressures incident to operation of the car, a closed unitary casing curved similarly to the top and slot concealed between the car top and vehicle roof and having an open front alining with said slot, means for supporting the casing from the bottom of the car top, said casing being of approximately the size of the visor and

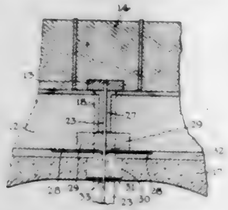
serving to contain the same therein when the visor is retracted, grooved guides on opposite sides of the casing in which the side edges of the one piece visor are directly engaged and adapted to slide, said grooves forming the sole support for the visor in either extended or retracted positions, and separate means within the vehicle engaged with the rear portion of the visor to slide the same in the grooved guides between extended and retracted positions.

2,528,904
CLOSING DEVICE FOR DOORS
Svend Günge Nørballe, Copenhagen, Denmark
Application May 23, 1946, Serial No. 671,785
In Denmark March 9, 1945
4 Claims. (Cl. 16—55)



1. A door check comprising, in combination, a fluid tight casing forming a cylinder and a chamber at one end of said cylinder, a bearing in said chamber, a pivot in said bearing for connection with a door and to be pivoted by door movement, a piston in said cylinder, a flexible connection between said piston and said pivot to be coiled about said pivot when the latter is pivoted and thereby pull said piston along said cylinder toward said chamber, a spring in said cylinder and biasing said piston away from said chamber to uncoil said flexible connection, a fluid passage through said piston, a one-way valve in said passage to permit passage of fluid through said piston only when the latter is retracted by said flexible connection, a fluid bypass extending longitudinally of said cylinder and in connection therewith at both ends thereof, an adjustable valve in said bypass for regulating the passage of fluid therethrough, a second oil passage through said piston and opening laterally thereof, and a recess around the end of said cylinder that is remote from said chamber to provide a fluid passage to said laterally opening passage prior to complete retraction of said piston.

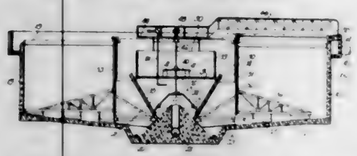
2,528,905
CONSTRUCTION OF THE LOWER PORTION OF IGNEOUS ELECTROLYTIC CELLS
Pierre Jean Marie Casimir Ollivier, Savoie, and René Amans Pierre Gabriel Perieres, Paris, France, assignors to Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camargue, Paris, France, a corporation of France
Application April 1, 1948, Serial No. 18,388
In France September 8, 1947
2 Claims. (Cl. 204—243)



1. A construction of the lower portion of an electrolytic cell, which comprises, in combination, a plurality of prebaked carbon blocks disposed in adjacent relation to one another to form a carbon lining at the bottom of said cell, a heat insulating layer under said carbon lining, a carrier structure under said heat insulating layer providing a hollow space thereunder, a plurality of current leading metallic bars each sealed to one of said carbon blocks and extending at right angles to said carbon lining, said bars passing freely through said heat insulating layer and through said carrier structure and projecting into said hollow space, and packing means interposed between said metallic bars and said heat insulating layer and said carrier structure, said packing means including in combination, a pulverulent refractory material filling the space between each bar and the heat insulating layer, a sheet of asbestos arranged between the heat insulating layer and the carrier structure therefor transversely to said bar and frictionally engaged thereon, a compressible packing material filling the space between said bar and said carrier structure below said sheet, and a metal sheet fixed to said bar below said last mentioned packing material and in contact therewith.

2,528,906
WITHDRAWN

2,528,907
CLARIFIER
Robert G. Paulette, Buffalo, N. Y., and Walter H. Green, Geneva Township, Kane County, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application October 25, 1946, Serial No. 705,762
12 Claims. (Cl. 210—16)

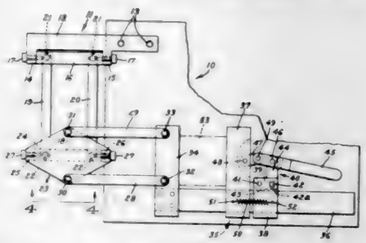


1. A liquid treating apparatus comprising a basin, a partition structure within said basin dividing the space therein into a relatively small space and a relatively large final sedimentation space, a treated liquid outlet from the upper part of said large space, a second partition structure in said small space dividing same into a lower initial sedimentation space and a superposed flocculating space, an inlet for liquid to be treated discharging into said initial sedimentation space, an inlet into said flocculation space from said initial sedimentation space, an outlet from said flocculating space to said large sedimentation space, means for flocculating liquid in said flocculating space, a solids scraper movable along the floor of said large sedimentation space, means for discharging solids from said basin to waste, and means for driving said solids scraper.

2,528,908
TRANSPORTATION TRUCK
John Walfred Peterson, Canton, S. Dak.
Application August 27, 1948, Serial No. 46,473
3 Claims. (Cl. 214—65)

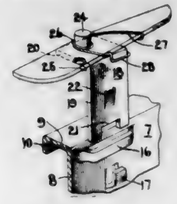
1. A transportation truck including a two-part frame comprising an A-shape front portion and a U-shape rear portion pivoted thereto, means for locking said portions together in alignment, a rear axle secured transversely to the rear frame portion, supporting wheels on the ends of said axle, load carrying shoe plates on the rear ends of said rear frame portion, notched latch bars pivotally attached to said rear frame portion overlying said shoe plates, pivoted means on said front frame portion for engaging a load when supported thereon, locking means for securing said latch bars in locked contact with a load, and the means for securing the load to the front frame portion comprising a transverse front axle, and load engaging hooks pivotally supported on said front axle.

2,528,909
WORK HOLDER
Edwin W. Plumb, Morris, Conn.
Application July 11, 1946, Serial No. 682,747
2 Claims. (Cl. 144—290)



1. A quick acting clamp comprising a jaw and a shank rigid with said jaw, a jaw movable along said shank toward and from said fixed jaw, means to clamp the movable jaw to said shank, said means including a clamping member slidable on said shank in the rear of said movable jaw, a bell crank having an arm entering said member for engagement with said shank, said arm having a cam-shaped end portion, means pivoting the cam-shaped end portion of said arm to said member, said bell crank having a slot in its heel portion, a pin rigid with said member and entering said slot, said bell crank having its other arm extending from said member, a handle pivoted intermediate its ends to the outer end of said other arm, and a link pivoted to said movable jaw and the adjacent end of said handle whereby on rocking of said handle in one direction the cam-shaped end portion of the bell crank arm is released from the shank and the member and movable jaw may be shifted along the shank and on rocking of the handle in the opposite direction said cam-shaped end portion of the bell crank arm is rocked into a camming engagement with the shank to lock the member thereto and further movement of the handle in the same direction carries its pivotal connection with the link through a dead center position to force the movable jaw tighter against a piece of work between the fixed and movable jaws and lock said movable jaw in clamped position.

2,528,910
SNAP-ON DRAWER LOCK
William A. Poe, Muskegon, Mich., assignor to Browne-Morse Company, Muskegon, Mich.
Application February 27, 1948, Serial No. 11,710
4 Claims. (Cl. 312—333)



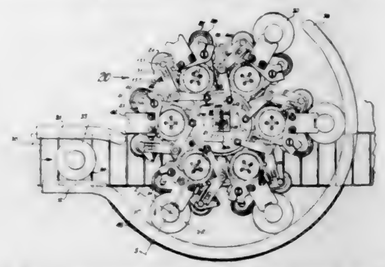
1. A drawer lock comprising a bracket having a vertical leg, the lower end thereof terminating in a bifurcated portion, a latching member pivoted on said bracket, a vertical drawer supporting member having a horizontal strap attached at its ends to the supporting member and spaced from the one face of the supporting member, and also having an upwardly extending tongue attached thereto and spaced from the same face thereof, the bracket receivable between the strap and the rear face of the supporting member and the lower terminal end thereof receivable between the tongue and the rear face of the supporting member and the bifurcated portion receivable astraddle the tongue.

2,528,911
GLAZING KNIFE
James Porter, New Cumberland, W. Va.
Application April 26, 1948, Serial No. 23,281
2 Claims. (Cl. 18—3.5)

1. A glazing and caulking device comprising a flat blade with two flat surfaces and having a substantially V-shaped notch formed integral therewith at one end projecting beyond one surface, a cover member attached to said blade on the opposite surface and positioned over said notch for engagement with a viscous material in applying window panes, flat shoulders integral with said blade and projecting in substantially parallel relation to each other flanking said cover member and extending from the junction of the

cover and notch, said cover member being substantially V-shaped in cross section and tapering to zero height wherein it blends with the contour of the blade.

2,528,912
SPOTTER MECHANISM
Sigmund Rappaport and Baxter G. Proctor, Jr., Durham, N. C., assignors to Wright Machinery Company, Durham, N. C., a corporation of North Carolina
Application May 2, 1949, Serial No. 90,812
23 Claims. (Cl. 198—33)



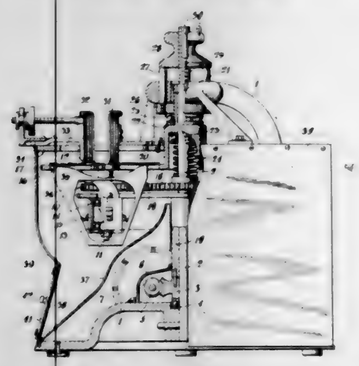
1. In a spotting mechanism for round articles, a support having means defining an axis, a carrier mounted for rotation about said axis, a pair of spaced parallel rollers rotatably mounted on said carrier, driving means for rotating one of said rollers in response to rotation of said carrier about said axis, said rollers defining a peripheral pocket to receive a round article, and means engageable with an article to hold the same in said pocket and against said rollers.

2,528,913
PORTABLE CRUCIFIX AND CASE
Allan Robinson, Boston, Mass.
Application May 11, 1948, Serial No. 26,382
7 Claims. (Cl. 206—19)

4. A religious article comprising a base element recessed in the form of a crucifix on one face, a crucifix adapted to fit snugly therein with an extension from the top of the longer cross bar of the crucifix projecting from the edge of the case, means in said extension for suspending said case and crucifix, the top surface of said base

formed as an altar with a recess in the uppermost surface thereof adapted to receive the bottom end of the long bar of the crucifix.

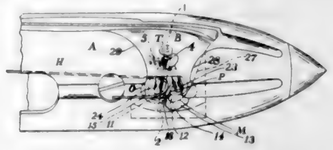
2,528,914
SLICING MACHINE HAVING CUTTER DISK WITH PLANETARY MOVEMENT
Arie Roest and Jacobus Roest, Amsterdam, Netherlands
Application December 29, 1945, Serial No. 638,147
In the Netherlands August 27, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires August 27, 1962
7 Claims. (Cl. 146—101)



1. In a slicing machine the combination with a frame, a cutting plate adapted for rotation thereof on an axis transverse to the plane of said cutting plate, and a circular disc knife adapted to be rotated on its axis, of means carried by and fixed in relation to said frame for supporting said cutting plate for rotation thereof on and for movement thereof along its axis relative to said fixed means, a member supported by said frame for rotation thereof upon said axis of said cutting plate and supporting said disc knife for rotation thereof on its axis offset from the axis of rotation of said cutting plate and with the plane of the disc parallel to the plane of said cutting plate and in cutting relation thereto, means operatively connecting said cutting plate and said member for effecting rotation of said member to effect revolution of said disc knife supported thereby about the axis of said cutting plate concomitantly with the rotation of said cutting plate upon said axis thereof, means for effecting rotation of said disc knife on its axis while being so revolved, and means supported by said fixed means for movement relative thereto and operatively connected to said cutting plate and operable at will during said rotation of said cutting plate for moving said cutting plate along its axis relative to said fixed means to change the cutting relation of said disc knife and said cutting plate.

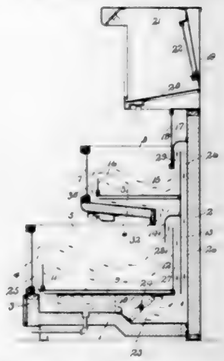
2,528,915
TAKE-UP TENSION FOR SHUTTLES
James E. Segee, Lawrence, and Wilfrid J. Gosselin, Methuen, Mass., assignors to U. S. Bobbin & Shuttle Co., Providence, R. I., a corporation of Rhode Island
Application February 7, 1948, Serial No. 6,893
1 Claim. (Cl. 139—215)

A self-threading shuttle having a body and a threading block with a longitudinal threading chamber open at the top and a lateral eye outlet passage extending at a substantially right angle therefrom to an outlet eye hole in the side of the block and an eye outlet in the body of the shuttle; a take up arm mounted to swing longitudinally of the shuttle on a pivot which is positioned near the top of the shuttle block at the junction of said longitudinal threading chamber and the lateral outlet eye passage, said take up arm being resiliently movable so that its free end can swing



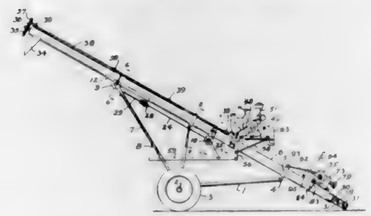
in an arc below the outlet eye hole against a stop in front of the eye hole, there being a trap including a long back leg at the back and a short front leg at the front of the outlet of the eye hole together with a cut away part in the body of the shuttle which extends up above the bottom end of the front leg, whereby the thread can move down around the bottom of the front leg and up into the eye hole in the metal which outlet eye hole is positioned above the bottom or free end of the take up arm.

2,528,916
REFRIGERATED SHELVING
Clifford B. Shreve, Buchanan, Mich., assignor to Tyler Fixture Corporation, Niles, Mich., a corporation of Michigan
Application July 19, 1948, Serial No. 39,466
5 Claims. (Cl. 62—89.5)



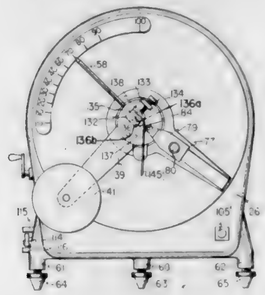
1. A refrigerating shelf structure comprising, a generally horizontal bottom, a vertical back wall at the rear of the bottom, a vertically positioned air obstructing dam extending upwardly at the front edge of the bottom, sides between the back wall and said front dam, a horizontal shelf spaced from and located over said bottom and terminating at its front and rear edges short of said dam and said back, a vertical plate at the front edge of the shelf the upper edge of which is positioned a distance below the upper edge of said dam, a vertical plate at the rear edge of the shelf extending upwardly to approximately the height of the front dam, air cooling means between said bottom and shelf, air propulsion means between said bottom and shelf to force air rearwardly, and conduit structure back of said shelf providing a conduit for air vertically at the back of the shelf to the upper edge of said back plate and over it and for directing air propelled by said propulsion means downwardly toward the rear end portion of the shelf.

2,528,917
PORTABLE CONVEYER FOR GRAIN AND OTHER MATERIALS
Arthur G. Slocum, Ensign, Kans.
Application February 20, 1947, Serial No. 729,867
8 Claims. (Cl. 198—233)



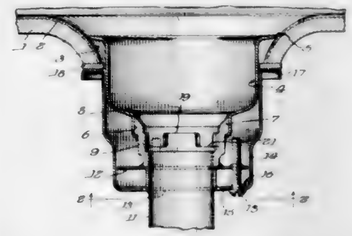
1. A portable conveyor of the class described, comprising a wheeled frame, a conveyor tube having a worm rotatably mounted therein, carried by the frame and pivotally connected thereto near one end of the conveyor tube for swinging movements of the conveyor tube and worm in a vertical plane about the point of pivotal connection aforesaid to assume different positions of inclination, means for imparting swinging movements to the conveyor tube and worm whereby to vary the inclination of the same, a prime mover mounted on the conveyor tube and operatively connected with the worm for driving the latter, and means interconnecting the prime mover mounting and the means for imparting swinging movements to the conveyor tube and worm for automatically leveling the prime mover responsive to variation of the inclination of the conveyor tube and worm.

2,528,918
FLEXURE TESTING APPARATUS
Godfrey Stanius, Chicago, Ill.
Application May 24, 1947, Serial No. 750,312
4 Claims. (Cl. 73—100)



4. In a flexure testing machine, a clamping plate mounted for rotation about its center, a base carried by said plate and provided with first and second supporting surfaces disposed at a predetermined angle and intersecting at the center of said plate, an arbor including a body portion and a work-engaging portion respectively provided with first and second supporting surfaces disposed at said predetermined angle and in intersecting relation, said work-engaging portion being provided with a semi-cylindrical outer surface centered at the intersection of said second-mentioned first and second supporting surfaces, whereby said semi-cylindrical outer surface is concentric with the center of said plate when said arbor is supported by said base with said pairs of first and second supporting surfaces in respective engagement, and means carried by said plate and adapted to engage a test specimen carried by said body portion for detachably clamping the test specimen and said arbor to said base.

2,528,919
SINK WASTE FITTING
Carl R. Stone and Edward A. Fredrickson, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application June 20, 1946, Serial No. 678,046
3 Claims. (Cl. 285—37)

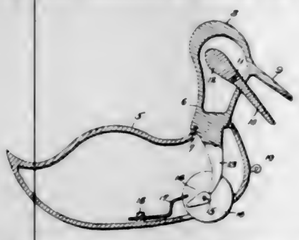


1. In a waste outlet fitting, a cup-like member within an annular flange supportable within a drain opening, a valve seat within the cup member held against axial movement, the said seat having a downwardly extending portion with a lower depending tubing connected thereto, a flange member cooperating with the said cup-like member, an apertured shell enclosing respectively a substantial portion of the said seat, cup-like member and flange and having an upper annular member arranged to bear annularly around the drain opening, the said apertured shell being relatively closely guided annularly by the said cup-like member, a plurality of threaded attaching means annularly positioned to engage the said flange member, the threaded portion of said attaching means being concealed by said apertured shell, the means for actuating said attaching means engaging an outer end portion of said apertured shell to draw the latter member against the annular portion of the drain opening upon predetermined actuation of the said threaded attaching means.

2,528,920
FIGURED TOY
Wilfred H. Stover, Neptune Beach, Fla.
Application July 10, 1946, Serial No. 682,704
1 Claim. (Cl. 46—98)

A figured mechanical toy comprising a body, a head pivotally connected to the body, a stationary upper jaw formed on the head, a movable lower jaw pivotally mounted centrally of its ends, said movable lower jaw being the sole movable part within the head, a weight formed at the inner end of the lower jaw, within the head and adapted to move the lower jaw to its open and

closed positions as the head moves forwardly and rearwardly, and mechanical means for moving



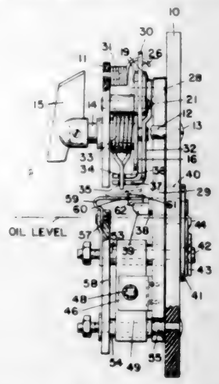
the head in one direction against the action of the weighted pivoted jaw.

2,528,921
INK APPLYING INSTRUMENT
Bernard J. Swanson, Fort Wayne, Ind.
Application August 1, 1947, Serial No. 765,382
3 Claims. (Cl. 15—134)

1. An ink-applying instrument consisting of a barrel, constituting an ink reservoir, one end of which is closed, the opposite end of which is externally and internally threaded and provided with an annular shoulder and an axially extending thin flange adjacent said shoulder, a stopper threaded in said barrel provided with an annular collar seated on the shoulder and snugly fitting in said flange, the upper end of said stopper having a concentric socket communicating with said reservoir through a feed duct, an annular tapered seat located at the juncture of said socket and feed duct, a wick disposed in said socket contacting said seat, one end of said wick projecting beyond the corresponding end of said stopper affording a nib, and an unvented cap the open end of which is internally tapered and threaded for engaging the external threads of said flange and barrel and provided with an axially extending threadless sleeve fitting around an adjacent smooth portion of said barrel when the cap is in place.

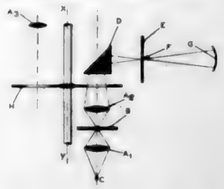
2,528,922
CIRCUIT MAKER AND BREAKER
Frank A. Talbot, Baltimore, Md., assignor of one-half to Robert E. Barry, Washington, D. C.
Application December 12, 1946, Serial No. 715,668
9 Claims. (Cl. 200—116)

1. In a switch of the character described, a double toggle including a three-armed intermediate lever and a pair of links, one end of one link being turnable about a fixed axis and having its other end pivotally connected to an arm of the three-armed lever, the other link having one of its ends turnable about a fixed axis and its other end pivotally connected to an opposite arm of the three-armed lever, spring means operatively connected to the remaining arm of the three-armed lever and adapted to yieldingly hold the



latter in either one of two positions, an actuator operatively connected with the double toggle for initiating movement of the three-armed lever into either one of its two positions, a second spring means operatively connected to the actuator, an operating member for moving the actuator and tensioning the second spring means, a driven member actuated by the second spring means, and a contact actuator driven by said driven member.

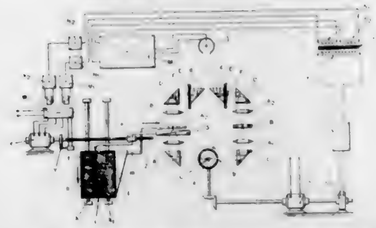
2,528,923
MEANS FOR FACILITATING THE FOCUSING OF CERTAIN DEVICES COMPRISING A PROJECTION SYSTEM, SUCH AS MICROPHOTOMETERS
Etienne Vassy, Paris, France
Application February 4, 1948, Serial No. 6,313
In France June 8, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 8, 1964
3 Claims. (Cl. 88—24)



1. In an optical apparatus of the type described including a light source, a translucent area illuminated by said light source through a first lens arrangement and an optical plane on which the image of said translucent area is to be focused, a focusing arrangement comprising in combination a movable support, a second lens arrangement fixed on said support, a reflective means also fixed on said support, and means for selectively shifting said support in such a manner that in a given position thereof the optical axis of said second lens arrangement coincides

with the optical axis of said first lens arrangement, and in another predetermined position thereof said reflective means projects the image of said illuminated area onto said optical plane.

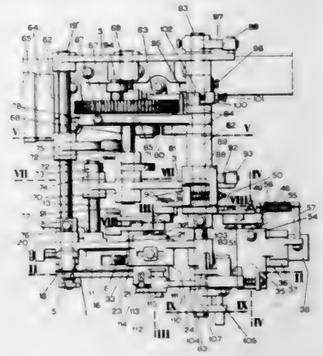
2,528,924
AUTOMATIC REGISTERING MICROPHOTOMETER
Etienne Vassy, Paris, France
Application February 4, 1948, Serial No. 6,315
In France June 13, 1944
4 Claims. (Cl. 346—32)



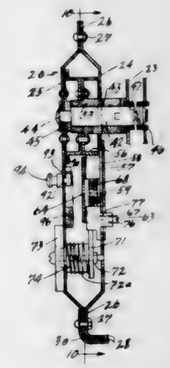
1. An automatic microphotometer comprising in combination: a source of light; a rotatable opaque cylinder surrounding said source of light and provided with a slot; a first motor for rotating said cylinder; reflecting means diametrically opposed with respect to said cylinder adapted to be stricken alternatively by the light issuing from said slot; a reference element of standard optical density in the path of the light beam issuing from a first one of said reflection means; an optical element to be analysed and an adjustable photometric wedge in the path of the light beam from the second of said reflection means; a photoelectric cell; third reflection means for directing both said light beams onto said photoelectric cell; means for amplifying the output of said photoelectric cell; two separate output channels fed in parallel from said amplifying means; means controlled by said first motor for blocking alternately said output channels in synchronism with the alternate projection of said light beams through said paths; a second motor; means controlled by said second motor for displacing said adjustable photometric wedge; relay means controlled in opposite directions by the respective outputs of said channels for controlling said second motor to restore the optical balance between said optical paths; and means responsive to the displacement of said adjustable photometric wedge for indicating the amount and direction of said displacement.

2,528,925
MACHINE FOR AUTOMATICALLY SETTING AND TRUING THE ENDS OF THE TEETH OF SAWS
André Vigneau, Norrois, France
Application January 8, 1946, Serial No. 639,762
In France December 27, 1944
20 Claims. (Cl. 76—54)

1. A machine for automatically setting and truing the teeth of band saws or the like comprising a frame, setting means mounted on said frame, means for supporting a saw blade, means for feeding said saw blade step by step during each operational cycle of the machine so that the saw teeth are successively acted upon by said setting means, truing means acting upon said teeth after they have been set by said setting means, and means controlled by the tooth to be acted upon by said truing means for adjusting said truing means in the horizontal and vertical planes so that said truing means may be automatically correctly positioned with respect to the tooth to be trued.

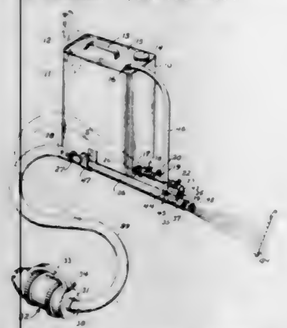


2,528,926
FISHING REEL
Edward J. Von Pein, Dayton, Ohio
Application July 10, 1946, Serial No. 682,477
3 Claims. (Cl. 242—84.5)



1. A fishing reel comprising a frame, said frame including upright side walls spaced apart laterally to form a housing, a spool rotatably supported at one side of said housing, a shaft rotatably supported in said housing and drivingly connected with said spool, a brake drum secured to said shaft, an upright guideway carried by one of said side walls beneath said brake drum, a brake shoe slidably supported in said guideway, a member slidably supported in said guideway beneath said brake shoe, a spring interposed between said member and said brake shoe, said spring being compressible by said member to establish a positive connection between said member and said brake shoe, and means for actuating said member to cause said brake shoe to engage said brake drum with progressively increased yieldable pressure and then with positive pressure.

2,528,927
SPRAYING DEVICE FOR LIQUIDS
Edwin W. Vose, Orange, N. J., assignor to Spray Process Co. Inc., New York, N. Y., a corporation of New York
Application December 7, 1944, Serial No. 567,033
2 Claims. (Cl. 299—89)



1. In a device for spraying liquids, a nozzle comprised of an elongated tube having an inlet end, means to connect the said tube to a source of high volume low pressure air, means mounted on said tube intermediate the ends thereof for leading pressure from the interior of said tube to a container of liquid to be sprayed, a tubular bushing mounted in the discharge end of said tube, a pair of aligned holes formed in the wall of said tube and in the wall of said bushing, a short length of pipe positioned in said aligned holes and secured to both said tube and said bushing, said pipe having a beveled face formed thereon communicating with its interior and facing the discharge end of said tube, a second tubular bushing extending into said nozzle from the discharge end thereof and having its inner end spaced apart from said beveled face to form a mixing chamber, the interior of said second tubular bushing being smaller in diameter than the interior of said first tubular bushing to cause a slight compressing of the mixture of air and liquid as it leaves the discharge end of said nozzle.

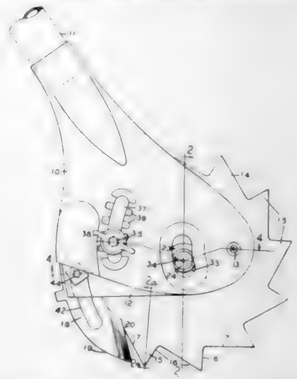
2,528,928
SUBSTITUTED NITRO MALONIC ESTERS
David I. Weisblat and Douglas A. Lyttle, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application October 2, 1947, Serial No. 777,584
20 Claims. (Cl. 260—319)

17. An alkyl alpha - nitro - alpha - carbalkoxy-beta - (3 - indole) - propionate.

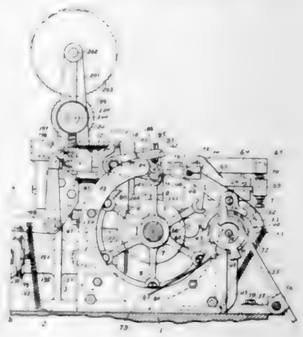
19. The method which includes: alkylating an ester of nitromalonic acid containing up to and including 8 carbon atoms in the esterifying groups, with a beta-methylindoleating agent to produce a diester of alpha-nitro-alpha-carboxy-beta(3-indole)-propionic acid, decarbalkoxylating the diester to an ester of alpha-nitro-beta-(3-indole)-propionic acid.

2,528,929
LAWN TRIMMER
Henry B. Wessendorf, Dayton, Ohio
Application November 4, 1946, Serial No. 707,565
7 Claims. (Cl. 97—227)

1. A lawn trimmer comprising a body, means for imparting forward movement to said body, a blade carrier pivotally mounted on the forward portion of said body and extending rearwardly therefrom, a blade secured to the rear portion of said blade carrier, extending forwardly therefrom and having a cutting edge adjacent the forward end thereof, an elongate member rotatably mounted on said blade carrier and extending laterally beyond the same, a disk secured to said elongate member for rotation therewith and having a peripheral series of teeth provided with cutting edges to cooperate with the cutting edge of said blade, and means for rigidly securing said blade carrier to an intermediate portion of said body in vertically adjusted positions with relation thereto.

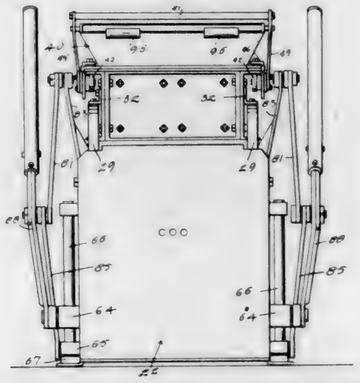


2,528,930
STRAW PACKAGING MACHINE
John B. West, Baltimore, Md., assignor to Maryland Paper Products Company, Inc., Baltimore, Md., a corporation of Maryland
Application June 14, 1946, Serial No. 676,759
4 Claims. (Cl. 93—3)



3. In a straw packaging machine an improved rotatable wrapper carrier which includes a shaft, spiders mounted on said shaft each of which spiders includes a plurality of radially disposed arms having a bifurcated wrapper-receiving member at its outer end, said bifurcated member comprising semi-tubular members each having its leading edge spaced a lesser distance from said shaft than its following edge is spaced from the same, in combination with a wrapper catcher which includes an arm pivoted at one side of said wrapper carrier, a rod carried by said arm and located beyond the periphery of said wrapper carrier, wrapper catchers mounted on said rod and each having an element operable between the furcations of said wrapper receiving members, said elements each comprising a semi-tubular body having its outlet disposed for the discharge of the wrappers therefrom by the engagement of the wrappers by the following edges of said wrapper-receiving members.

2,528,931
CONCRETE BLOCK MOLDING MACHINE
John B. White, West Springfield, Mass.
Application November 18, 1946, Serial No. 710,630
5 Claims. (Cl. 25—41)



1. A cement block making machine comprising a base, a mould member, means yieldably supporting said mould member on said base, core means, means supporting said core means on said base, a pallet loosely engageable in said mould member, combined pallet supporting and elevating means movably carried by said base, and means for raising or lowering said elevating means, said latter means including pairs of pivotally connected links disposed in substantially vertical position, means fixed to said base pivotally connected to the uppermost ones of said links, means pivotally connecting the lowermost ones of said links to said pallet supporting and elevating means, and a pair of operating levers pivotally connected to said base and formed with elongated slots engageable with the pivotal connections between said links for effecting angular movement of said pairs of links and vertical movement of said supporting and elevating means.

2,528,932
COMPOSITIONS CONTAINING GLYCIDYL ETHERS
Quentin T. Wiles, Lafayette, and Herbert A. Newey, Richmond, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 29, 1949, Serial No. 90,541
9 Claims. (Cl. 106—287)

1. A composition essentially comprising a spreadably fluid mixture of (1) glycidyl ether of a polyhydric phenol having a 1,2-epoxy equivalency greater than 1.0 and (2) a liquid mono-epoxy compound wherein each bond of the epoxy oxygen atom is linked directly to separate vicinal saturated carbon atoms and which compound has a boiling point of at least 100° C. at normal atmospheric pressure, which mono-epoxy compound is present in such proportion that said mixture has a viscosity of 3 to 100 poises at 25° C.

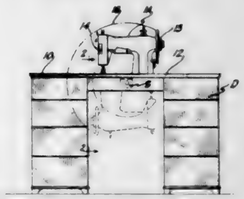
2,528,933
ADHESIVE COMPOSITION CONTAINING GLYCIDYL ETHERS AND ALUMINA
Quentin T. Wiles, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 29, 1949, Serial No. 90,542
16 Claims. (Cl. 106—287)

1. A composition adapted for adhesive purposes upon addition of a hardening agent which comprises glycidyl ether of a dihydric phenol having a 1,2-epoxy equivalency greater than 1.0 in admixture with an added 25 to 200% of comminuted alumina, the percentage of added alumina being based upon the amount by weight of said glycidyl ether.

2,528,934
ADHESIVE COMPOSITION CONTAINING A FLUIDIZED GLYCIDYL ETHER AND AN AMPHOTERIC OXIDE
Quentin T. Wiles, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 29, 1949, Serial No. 90,543
8 Claims. (Cl. 106—287)

1. A composition essentially comprising glycidyl ether of a dihydric phenol having a 1,2-epoxy equivalency greater than 1.0, and a liquid epoxy compound having a boiling point of at least 100° C. wherein the epoxy group is a three-membered ring containing two vicinal saturated carbon atoms, in admixture with an added 25% to 200% of comminuted substantially water-insoluble amphoteric oxide, the percentage of added amphoteric oxide being based upon the total amount by weight of the mixture of only the two said organic constituents, which mixture contains such proportion of said liquid epoxy compound that it has a viscosity of 3 to 100 poises at 25° C.

2,528,935
SEWING MACHINE MOUNTING
Benjamin F. Williams, Lynwood, Calif.
Application September 7, 1948, Serial No. 48,063
3 Claims. (Cl. 311—12)



1. A support for a sewing machine having two longitudinally extending ribs formed on the under side of the base thereof which includes: a plurality of flanges, with each of said flanges extending outwardly from one of the ends of one of said ribs and affixed thereto; a rectangular member affixed to the lower edges of said ribs and flanges and extending substantially the longitudinal length thereof; two rectangular members, with each of said members affixed to the upper

edges of two of said adjoining flanges, and extending from one of the ends of said base to the ends of said adjoining flanges; a desklike structure, with said structure having a substantially horizontal top, and said top having a longitudinally extending rectangular opening formed therein; two oppositely disposed brackets mounted on the under side of said top and on each side of said opening; a shaft extending through said brackets and said ribs, with said shaft pivotally supporting said sewing machine in said opening; and means to maintain said machine in an upright operating position and a concealed position, with said machine when in an operating position substantially closing said opening with said base and said two members disposed on each end thereof, and said machine when in an inoperative position closing said opening by said member which extends the longitudinal length of said ribs and flanges.

2,528,936

METHOD OF POLYMERIZING NONWRINKLING OILS TO WRINKLING OILS

Gordon M. Williams, Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware

No Drawing. Original application May 6, 1943, Serial No. 485,897. Divided and this application April 9, 1947, Serial No. 740,477

11 Claims. (Cl. 260—407)

1. The method of treating a vegetable fatty oil to increase its drying rate and transform it into a wrinkling oil which comprises heating 100 parts by weight of said oil with 0.15 part by weight of finely divided copper at a temperature of about 150° C. in an inert ambient atmosphere, and holding the temperature of the mixture at this level for approximately 3 hours.

2,528,937

WRINKLING OILS

Gordon M. Williams, Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware

No Drawing. Original application May 6, 1943, Serial No. 485,897. Divided and this application April 9, 1947, Serial No. 740,480

6 Claims. (Cl. 260—407)

1. A wrinkling oil consisting of the product obtained by addition of 0.05 part by weight of sodium to 100 parts by weight of vegetable fatty oils, and heating to 120° C. in an inert ambient atmosphere.

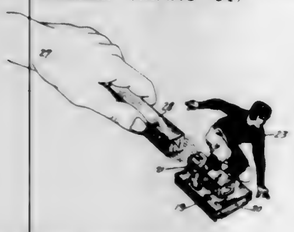
2,528,938

MAGNETIC GAME DEVICE

Carl R. Wolf, Denver, Colo.

Application March 24, 1948, Serial No. 16,761

1 Claim. (Cl. 273—94)



A game device, comprising; a game board, a game piece adapted to move on the game board, having a non-magnetic base, a permanent bar magnet having front and rear ends of opposite polarity supported on the base, a miniature figure simulating a player in a contest, fixed to the base, the figure having legs straddling the magnet, and a portion extending forwardly beyond the base, and magnetic operating means adapted to be manipulated by the hand of a user from above the board and at the rear end of the bar magnet for moving the game piece forwardly, said operating means having a pole at its operative end of the same polarity as the rear end of the bar magnet, whereby the game piece may be moved forwardly by magnetic repulsion as the operating means is moved toward the rear end of the permanent magnet, and roller means supporting the game piece adapted to permit it to more freely move in a direction between the poles of the magnet than in other directions.

2,528,939

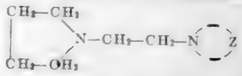
PYRROLIDYLETHYL CARBAZOLE COMPOUNDS

John B. Wright, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application January 21, 1949, Serial No. 72,059

6 Claims. (Cl. 260—313)

1. A compound selected from the group consisting of (1) diamines of the formula:



wherein Z is the remainder of a radical selected from the group consisting of (*a*) carbazole, and (*b*) hydrocarbazole radicals having up to and including four double bonds of the carbazole radical saturated with hydrogen, and (2) acid addition and quaternary ammonium salts thereof.

2,528,940

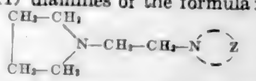
PYRROLIDYLETHYL INDOLE COMPOUNDS

John B. Wright, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application January 21, 1949, Serial No. 72,060

6 Claims. (Cl. 260—313)

1. A compound selected from the group consisting of (1) diamines of the formula:



wherein Z is the remainder of a radical selected from the group consisting of indole, 2,3-dihydroindole, 2-phenylindole, and 2-phenyl-2,3-dihydroindole, and (2) acid addition and quaternary ammonium salts thereof.

2,528,941

MEANS FOR EXTRACTING THE NAIL USED FOR THE INTRAMEDULLARY FIXATION OF A FRACTURED BONE

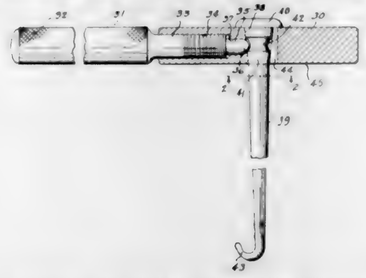
Charles Andrew L. Bassett, New York, N. Y., and Eugene Evertz, Bridgeport, Conn., assignors to The Conlon Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut

Application October 13, 1948, Serial No. 54,222

5 Claims. (Cl. 128—92)

4. In the intramedullary fixation of fractured bones which includes the driving of a nail longitudinally in the marrow cavity, an extractor for removing the nail comprising an elongated body

provided with a transverse opening intermediate the ends thereof, a hook member provided with a shank in said opening and bent into a hook at its outer end located at one side of the body, a hand grip at one end of the body, means connecting the hand grip to the body for longitudinal movement of the hand grip with respect to the



body, means controlled by said longitudinal movement of the hand grip for detachably securing the shank in the opening, and said body forming a striking block for a hammer to provide a force in a direction longitudinally of the hook member and transversely of the body for extracting a nail connected to the hook.

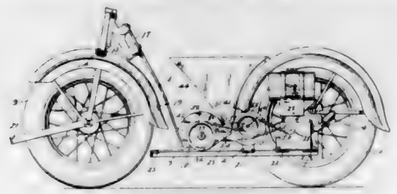
2,528,942

LEAF DISINTEGRATOR

Arvid Bjorklund, Minneapolis, Minn.

Application March 8, 1946, Serial No. 652,845

3 Claims. (Cl. 275—1)



1. In a device of the class described, a frame, a leaf disintegrator, including a rotor having circumferentially spaced rows of teeth and a concavo-convex plate having circumferentially spaced rows of teeth, between which, teeth of the rotor pass during the rotation thereof, a blower housing, a rotatable blower in the housing having a discharge throat through which a blast of air from the blower is directed between the rotor and the plate, a motor on the frame, driving connections from the motor to the rotor and the blower, a hopper extending between the housing and the plate, said hopper having a discharge opening through which leaves are precipitated into said blast of air to be carried thereby between the rotor and the plate, and a deflector for directing air from the blower between the rotor and the plate.

2,528,943

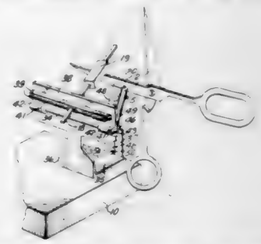
SHARPENING DEVICE FOR SCISSORS

Tindaro A. Calabrese, Woodside, N. Y.

Application April 22, 1946, Serial No. 664,030

4 Claims. (Cl. 51—69)

1. A sharpening device having a bracket for attachment to a fixed support and a clamp at one end thereof for supporting an article with its edge to be sharpened in a horizontal plane so that a honing implement may be moved longitudinally of the edge for sharpening the same, means on the bracket to be engaged by a handle bar of the honing implement for guiding movements of the honing implement longitudinally of the edge, comprising a guide post extended vertically from said bracket at a point spaced from the clamp, a guide head formed with an elongated slot in a horizontal plane through which the handle bar of the honing implement passes, ears extended vertically from the top edge



of said guide post, ears depended vertically from the bottom edge of said guide head and overlapping the ears of said guide post, means engaged through the overlapped ears for holding the guide head in various angular adjusted positions relative to said guide post, and means extended from the top and bottom edges of the material of said guide head defining said slot for engaging the top and bottom faces of the handle bar of the honing implement for adjusting the angular position of the honing implement as the angular position of the guide head is adjusted.

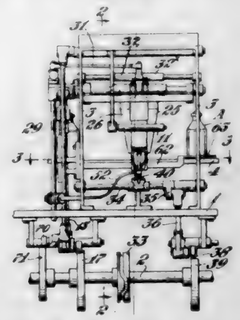
2,528,944

PICKER CONTROL FOR LABEL-APPLYING MACHINES

Sidney T. Carter, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a corporation of Massachusetts

Application January 25, 1949, Serial No. 72,641

24 Claims. (Cl. 216—54)



1. In a labeling machine of the kind wherein a picker element is moved back and forth in an arcuate path during each cycle of operation of the machine and during each cycle receives adhesive from a supply, normally presses its adhesively-coated surface against the exposed label in a magazine, withdraws the label from the magazine and conveys it to a transfer point where it normally dwells during transfer of the label to another part, a picker, a picker-actuating cam designed to move the picker through a path of predetermined and constant arcuate length,

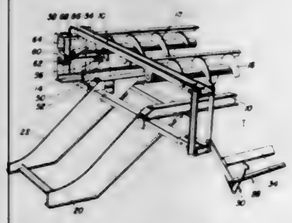
the limits of said path normally being at the picking and transfer points, respectively, a detector responsive to the absence of an article to be labeled at a detecting point, and means controlled by the detector, in the absence of an article at the detecting point, for shifting the limits of the path of the picker so that the picker fails to reach the picking point while moving in one direction and passes beyond the transfer point when moving in the opposite direction.

2,528,945

DISPENSING DEVICE

Theodore H. Carpenter, New London, Conn., assignor to the United States of America as represented by the Secretary of the Navy

Application August 19, 1944, Serial No. 550,292
3 Claims. (Cl. 114—18)



1. In a dispenser for projectiles comprising an inclined chute down which such projectiles may be fed and in which the projectiles are adapted to move down said chute in transverse position, the combination of a feed support connected to said chute and upon which the projectiles are adapted to rest in transverse position, and screw feed means for moving projectiles over the feed support and into the chute, said screw feed means comprising a plurality of screws adapted to engage the projectiles at longitudinally spaced points, means for rotating said feed screws in the same direction, whereby the screws exert a longitudinal component upon the projectiles engaged thereby, and alignment means engageable with the ends of such projectiles toward which they are urged by said longitudinal component.

2,528,946

METHOD OF MANUFACTURE OF MODIFIED ALKYD RESINS AND PRODUCTS

Charles Adams Coffey, William T. Walton, and Norman Britan, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application November 19, 1947, Serial No. 787,030
8 Claims. (Cl. 260—22)

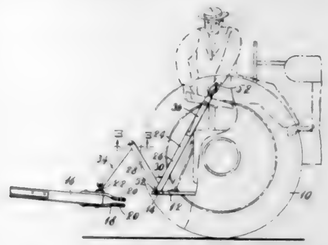
1. A method for dehydrating castor oil and forming therewith an oil modified alkyd resin which comprises substantially dehydrating the castor oil in the presence of phthalic anhydride and glycerine, dehydrating as the primary reaction within a temperature range of from 260 to 300 degrees C., wherein the molar ratio of glycerine to the oil is not more than 1.5:1 and not less than 2:3 until the oil is dehydrated and subsequently lowering the temperature, partly by addition of a polyhydric alcohol, during a secondary phase to a range within 220 to 250 degrees C. whereupon the reaction becomes predominantly one of esterification, and holding the temperature within the lowered range until a clear, homogeneous dehydrated castor oil modified alkyd resin has formed.

2,528,947

HAND TOOL FOR AGRICULTURAL IMPLEMENTS

Lloyd G. Copeman, Metamora, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Application August 15, 1947, Serial No. 768,794
5 Claims. (Cl. 254—113)



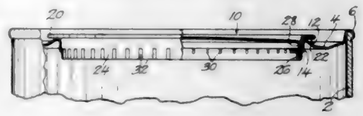
1. A hand tool for effecting the coupling between a tractor and an implement comprising a bell-crank having a fulcrum pin insertable into a tractor draw-bar hole to support the bell-crank in a generally vertical plane with a large degree of angular freedom in the vertical plane and also in a horizontal plane, means forming a hand grip at one end of one leg of the bell-crank and a hook engageable with an implement tongue freely pivoted on the other leg of the bell-crank.

2,528,948

PLUG-TYPE CONTAINER CLOSURE WITH TRANSPARENT WINDOW

Pasquale V. Di Cosmo, Hopatcong, N. J., assignor to The Canister Company, Inc., Phillipsburg, N. J., a corporation of New Jersey

Application August 14, 1946, Serial No. 690,500
1 Claim. (Cl. 220—82)



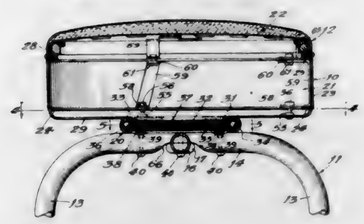
A closure for a container comprising a transparent element in the form of a disc having a downwardly turned marginal edge, a friction element extending about said edge and having a portion presenting an outwardly facing friction surface for engagement with a container for securing the closure to the container, said portion presenting an inwardly facing surface engaged by the downwardly turned edge of said transparent element, and an upwardly turned extremity on said portion of the friction element extending within the downwardly turned edge of said transparent element short of the top thereof and cooperating with said inwardly facing surface to clamp said edge therebetween to secure the transparent element to the friction element, said portion and extremity thereby being of U-shape, said extremity and the lower portion only of said outwardly facing friction surface being formed with indentations for gripping said edge of the transparent element, the indentations on said outwardly facing friction surface also serving to increase the friction between such surface and the container wall.

2,528,949

STOOL HAVING REVOLVING SEAT

Carl J. Engstrom, Michigan City, Ind., assignor to The Royal Metal Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application September 13, 1945, Serial No. 616,039
6 Claims. (Cl. 155—95)



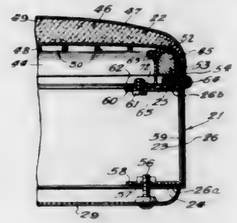
4. An article of furniture comprising a supporting base, an anti-friction bearing assembly mounted upon the said supporting base, and a seat mounted upon the said anti-friction bearing assembly and including a bottom wall, the said anti-friction bearing assembly including a top wall member permanently attached to said bottom wall of said seat and including a bottom wall member detachably attached to said supporting base, said top wall and said bottom wall of said anti-friction bearing assembly being rotatable relative to each other and being operatively connected together radially exteriorly of said attachment to said seat and said supporting base.

2,528,950

SEAT CUSHION COVER CONSTRUCTION

Carl J. Engstrom, Michigan City, Ind., assignor to Royal Metal Manufacturing Company, Chicago, Ill., a corporation of Illinois

Original application September 13, 1945, Serial No. 616,039. Divided and this application June 13, 1947, Serial No. 754,465
4 Claims. (Cl. 155—184)



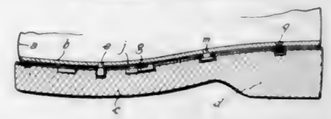
1. A stool comprising a supporting base, a seat frame member including an upstanding side wall and an upholstery covering mounted in predetermined position on the outer surface of said side wall and extending over the top and bottom of said frame member and in engagement therewith, a base plate mounted on said supporting base and disposed below said seat frame member in engagement with said upholstery covering, a seat cushion unit mounted on top of said seat frame member in engagement with said upholstery covering, and means releasably securing said seat frame member, said base plate, and said seat cushion unit together in clamping engagement with said upholstery covering to thereby hold the latter in said predetermined position on said side wall.

2,528,951

FOOTWEAR WITH A REMOVABLE SOLE

Wulf Epsztejn, Brussels, Belgium

Application September 8, 1948, Serial No. 48,193
In Belgium November 27, 1947
2 Claims. (Cl. 36—15)



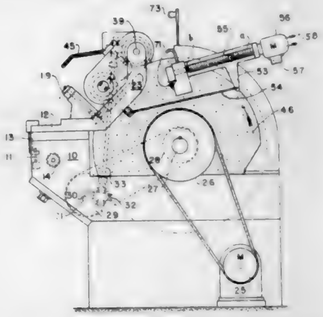
1. Footwear having an upper part comprising an upper and an insole secured together, a lower part comprising a sole and a heel secured together, and means of attachment for detachably connecting said parts together, said means comprising eccentric hooks on the sole portion of one of said parts, co-operating slots on the sole portion of the other of said parts, and fixing means comprising co-operating threaded members on the heel portions of both said parts.

2,528,952

PRESSURE DEVICE FOR LENS GRINDING MACHINES

Henry Goldberg, Pittsburgh, Pa.

Application April 6, 1946, Serial No. 660,234
19 Claims. (Cl. 51—101)



1. A pressure increasing device adapted to be operably connected to an operating member for moving a piece relative to a tool in an edging machine, comprising a carrier member, a pivot support for said carrier member, means on said carrier member constructed and arranged to operably connect it to the operating member of the machine, a shaft operably carried by said carrier member, means on said carrier member for actuating said shaft, a weight member operably positioned on said shaft and constructed and arranged to move therealong when said shaft is actuated, and control means on said carrier member for connecting and disconnecting said actuating means, said control means having portions sensitive to the pivoted position of said carrier member.

2,528,953

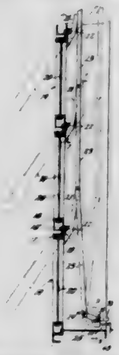
WINDOW OPERATOR CONSTRUCTION

Matt Gzupkaytil, Miami, Fla.

Application March 22, 1949, Serial No. 82,723
3 Claims. (Cl. 268—123)

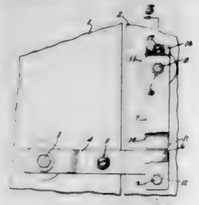
1. In a window device, a window frame, a sash pivotally supported in said frame for angular movement about a horizontal axis, said sash including a hollow bottom member adapted to re-

ceive rain water therein and having at least one escape aperture in its bottom portion, the area open for the reception of water at the top of said member exceeding the area of said escape aperture, counterbalance means associated with said sash and normally balancing said sash in an in-



clined position relative to said frame, and crank operated mechanism for moving said sash about said axis, including manually controlled clutch means between said crank and said sash for selectively operatively connecting and disconnecting the same.

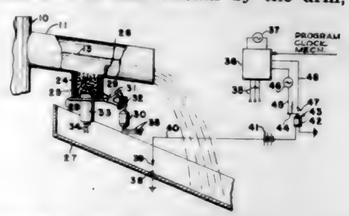
2,528,954
DOOR LATCH
Otis D. Harbert, West Covina, Calif.
Application April 28, 1947, Serial No. 744,450
3 Claims. (Cl. 292—238)



1. A latch comprising a swinging latch member, a horizontal pivot therefor, a keeper therefor comprising a flat upright strip, a bolt for the upper end and a bolt for the lower end of said strip, a bushing on each of said bolts for supporting said strip spaced in front of a support, said lower bushings serving as a stop for said latch member, a gravity lock for said latch member, said upper bushing supporting said lock for pivotal movement behind said strip, and a knob at the upper end of said lock and projecting forwardly over the upper end of said strip, said strip having an upper end serving as a stop for said knob to limit pivotal movement of said lock.

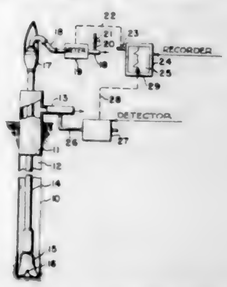
2,528,955
RADIO-ACTIVITY LOGGING OF WELLS
John T. Hayward, Tulsa, Okla.
Application September 19, 1947, Serial No. 774,945
10 Claims. (Cl. 255—1.8)

1. In the drilling of a well by the rotary method employing a circulating stream of drilling fluid, the method of logging the well, comprising, separating from the stream of returning drilling fluid the formation cuttings in the order in which they are deposited in said stream by the drill, and



measuring the radio-activity of the so separated cuttings.

2,528,956
DETECTION OF WASHOUTS IN ROTARY DRILLING STRINGS
John T. Hayward, Tulsa, Okla.
Application September 19, 1947, Serial No. 774,946
2 Claims. (Cl. 73—40.5)

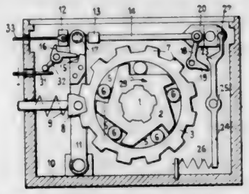


1. In the method of drilling wells wherein a hydraulic fluid is circulated into and out of a well through a hollow drilling string, the method of detecting and locating leaks in said drilling string, comprising, introducing a readily identifiable indicating medium into an increment of the stream of drilling fluid as it enters the well, advancing a record chart in accordance with the volumetric flow of said drilling fluid displacing said increment through the well, detecting said medium in the fluid emerging from the well, and recording on said chart in correlated relation to the respective volumes of drilling fluid emerging from the well indications of said medium as detected both in said increment and in any earlier emerging increment of said drilling fluid to thereby disclose from the difference in positional relationship on said chart of said indications the existence and location of a leak in said drilling string.

2,528,957
DEVICE ON AUTOMOTIVE VEHICLES FOR PREVENTING THE INADVERTENT BACKWARD MOTION OF THE VEHICLE
Walter Husy, Zurich, Switzerland
Application February 25, 1948, Serial No. 10,836
In Switzerland July 3, 1946
4 Claims. (Cl. 192—4)

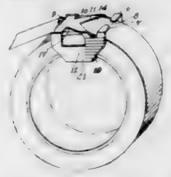
1. A device for preventing unintentional backward motion of a vehicle comprising a locking device arranged in the transmission of the vehicle and comprising an inner member rigidly fixed to a drive shaft in said transmission, a roller ring rotatably mounted around said inner member having an inner circular wall said inner member having irregular shaped teeth thereon

and forming with said inner circular wall of said ring a plurality of circumferentially spaced wedge shaped spaces, a roller in each said space, each said space varying in width from substantially zero to a width greater than the diameter of said rollers, a plurality of teeth in the outer surface of said roller ring, a spring pressed locking dog for engagement with said teeth on said roller ring and normally locking said roller ring from rotation, release means for said dog operatively connected to a gear shaft mechanism of said transmission and operating to release said dog when the transmission is placed in a reverse position, said inner member being free to rotate in said roller ring in one direction of travel of the vehicle when said dog is engaged but being



braked by said rollers acting in said wedge shaped spaces when said vehicle travels in the opposite direction, said roller ring being free to rotate with said inner member when said dog is released by said release means upon reversing said transmission, latching means for said dog comprising a lever rotatably mounted and connected to said dog, an abutment on said lever, a pivotally mounted bell crank having an arm thereof for engagement with said abutment, a push rod having two stops thereon, said lever extending between said two stops, a second arm on said bell-crank being actuatable by one said stop to release said first arm from said abutment and said lever being movable by the other of said stops to release said dog from said roller ring.

2,528,958
TAPE DISPENSER
James De Loss Johnson, Baltimore, Md.
Application July 3, 1945, Serial No. 603,012
5 Claims. (Cl. 164—84.5)



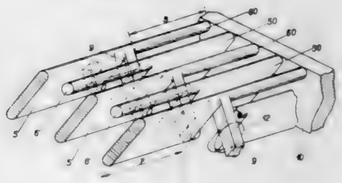
1. A tape dispenser formed with an opening through which tape can be passed to be drawn rearwardly, and with a rearwardly extending interstice for the insertion of the tape into said opening.

2,528,959
REINFORCING MEANS OF SHIPPING FRANGIBLE TUBES
George A. Kingston, Minneapolis, Minn.
Application December 6, 1946, Serial No. 714,456
3 Claims. (Cl. 206—46)

1. As an article of manufacture, a sectional, frangible tube constructed for shipment and storage, comprising a pair of cooperating, semitubular sections constructed of highly frangible material, said sections being positioned with their corresponding edges substantially in abutment, a plurality of integral plug elements interposed between said sections and having peripheries closely conforming to the internal periphery of

said assembled sections, a flexible wrapping surrounding at least the greater portion of said sections and having overlapping edges, and means for temporarily securing said overlapping edges to retain said sections against said plug elements.

2,528,960
SQUIRREL-CAGE ARMATURE OF INDUCTION MOTOR WITH BRIDGE RESISTANCE
Vilém Klíma, Prague, Czechoslovakia, assignor of one-half to Moravian Electrical Engineering Works, National Corporation, Olomouc, Czechoslovakia
Application June 2, 1948, Serial No. 30,567
In Czechoslovakia June 27, 1946
11 Claims. (Cl. 172—120)



1. In an A. C. squirrel-cage motor, a rotor having circumferentially spaced peripheral slots extending generally longitudinally along its outer surface and in substantially parallel relation to each other, each slot including small and large cross-section area portions arranged in longitudinal alternation along the slot and the large cross-section area slot portions being alternated with the small cross-section area slot portions circumferentially of the rotor; a winding including circumferentially spaced, generally longitudinally extending conductors each including longitudinally alternating large and small area conductor sections arranged in and substantially filling said slot portions; and circumferentially extending, axially intermediate, bridge members each connecting an end of a large area section of one conductor to an end of a large area section of a circumferentially adjacent conductor.

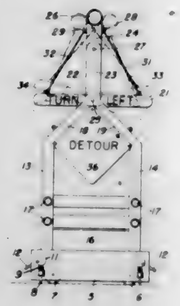
2,528,961
SMOKING PIPE
George W. Kowalsky, Wisconsin Rapids, Wis., assignor of one-half to Albert J. Forst, Wisconsin Rapids, Wis.
Application June 12, 1945, Serial No. 598,947
1 Claim. (Cl. 131—195)

A pipe having a bowl and an integral shank formed with a relatively large bore extending throughout its entire length, said bowl being formed with a relatively reduced bore extending through its front wall and spaced from and in

axial alignment with the relatively large bore in said shank, an externally threaded hollow stem formed with a reduced, open, forward end portion and receivable respectively in said relatively large bore in said shank and in the reduced bore in said bowl, a partition wall in the rear end of said hollow stem dividing said stem into a cooling chamber at the front of said hollow stem and a smoke chamber at the rear end thereof, said hollow stem being formed with a radial port connecting the

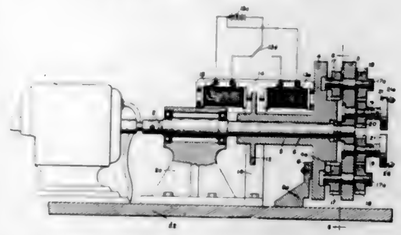
exterior of said stem with said smoke chamber, and a mouthpiece formed with a central bore extending throughout its length and disposed at the rear end of said stem and communicating with said smoke chamber and said reduced forward end portion of said stem being formed with a smooth and imperforate inner and outer wall and adapted for horizontal positioning in the bowl and spaced above the bottom of said bowl to support burning tobacco therein while cooling the same.

2,528,962
TRAFFIC SIGNAL
Emile A. Lieutard, San Francisco, Calif.
Application April 27, 1949, Serial No. 89,889
2 Claims. (Cl. 116—63)



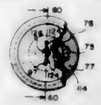
1. In a traffic signal, a base, supports extending upwardly from said base at each side thereof, trays each having a lower end supported by the supports at a respective side of the base, said trays extending convergingly upwards to a common apex, a shaft extending transversely of said trays at the convergent ends thereof, a series of semaphore signal arms in each tray and having their upper ends pivoted on said shaft, said arms each having a specific signal indication impressed thereon for indicating different signals upon selective exposure of said arms, spaced standards extending upwardly from the apicial junction of said trays, an oscillatory arm pivoted at its lower end between said standards and extending upwardly therefrom, links pivoted each at one end to a respective side of said oscillating arm, and coacting means on said semaphore arms and the remaining ends of said link selectively connecting a semaphore arm from each tray with a respective link.

2,528,963
DRIVE FOR NUTATORS
Charles T. G. Looney, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application January 5, 1946, Serial No. 639,375
6 Claims. (Cl. 74—86)



3. A mechanism of the character described comprising a rotatable drive shaft, an element on the shaft rotatable therewith, a stationary member adjacent the shaft, a second element loosely mounted on the shaft between said first element and the stationary member and having a sun gear, a device for coupling said second element to the first element, a device for coupling the second element to the stationary member, means for sliding the second member longitudinally on the drive shaft to operate said coupling devices alternately, planetary gearing on said first element meshing with the sun gear and including a driven shaft offset from the axis of the drive shaft, and a stud mounted eccentrically on said driven shaft, whereby the stud describes an elliptical path when said second element is coupled to the stationary member and a circular path when the second element is coupled to said first element, during rotation of the drive shaft.

2,528,964
ANTIPICK KEYLOCK MECHANISM
Carl Lurtz, Brooklyn, N. Y.
Application December 7, 1945, Serial No. 633,310
21 Claims. (Cl. 70—419)



1. A lock-mechanism, comprising a revoluble tumbler-support, a plurality of tumblers carried on the support, said tumblers being movable relative to one another to various positions, means to permit the tumbler-support to be rotated over an angle large enough for effecting operation in said lock-mechanism only when said tumblers are disposed in a definite position relative to one another, an adjunctive device arranged to be operated while the tumbler-support is rotated over a limited initial angle of smaller degree than said first mentioned angle; said adjunctive device being adapted to prevent further relative movement to be effected in said tumblers subsequent to rotation of the tumbler-support over said smaller limited angle, a stationary plate permanently fixed adjacent the front-end of the revoluble tumbler-support, the plate having a key-hole with at least one substantially narrow radial extension, and the tumbler-support having a key-way including a radial groove of substantially identical contour as that of the key-hole in said plate, the groove of the key-way being normally disposed in alinement with said narrow extension of the key-hole to permit insertion of an operating key for shifting the tumblers relative to one another, and an instrumentality co-active with the adjunctive device for causing said radial groove of the tumbler-support to be urged, during said initial angular movement, behind an occluding portion of said stationary plate.

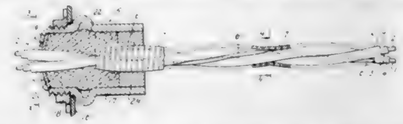
2,528,965
DOCTOR MECHANISM FOR ROTARY INTAGLIO PRINTING PRESSES
Joseph E. Meyer, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application April 21, 1945, Serial No. 589,598
10 Claims. (Cl. 101—157)

1. In an enclosed ink fountain, a base, a fixed back frame, a printing cylinder and a wiping mechanism therefor comprising a reciprocating carriage, a doctor frame including brackets pivoted to swing on the carriage, a platform slidable on the brackets, a doctor blade mounted on the platform, and coacting means for adjusting the ends of the doctor blade individually or simultaneously toward and away from the printing cylinder comprising swiveled nuts on the platform and manually operated adjusting screws mounted on the brackets and threaded into said nuts.

3. In an enclosed ink fountain, a base, a fixed back frame, a printing cylinder of a predetermined size and a wiping mechanism therefor adjustable for cylinders of different sizes comprising a carriage reciprocable on said back frame, a shaft mounted to rock on said carriage and to reciprocate therewith, a doctor frame including brackets fixed to rock and reciprocate with said shaft, lock levers reciprocating with and loosely mounted on said shaft, removable means for securing the lock levers to the doctor frame in different angular positions with respect thereto, and manually operated lock pins pivoted in the lock levers and arranged to be locked to and released from the carriage.

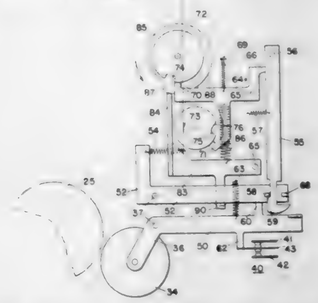
2,528,966
HEATING UNIT
Harold S. Moore and Charles A. Berlepsch, North Haven, Conn., assignors to Rockbestos Products Corporation, New Haven, Conn., a corporation of Massachusetts
Application March 22, 1949, Serial No. 82,802
3 Claims. (Cl. 219—19)

1. An electrical heating unit which comprises an electrical heating element formed of two insulated heating wires in contact with each other throughout their length, a bare ground wire in contact with the insulation of the wires throughout their length, a metal protecting armor over the three wires and in contact with the ground wire, a terminal end for the heating element where the heating wires are connected together and a terminal insulating cap for the terminal end permanently connected thereto the presence of which shows that the element has not been shortened on that end, and a coupler on the other end electrically connected to the armor for con-



nection to a grounded junction box, and means near the coupler permanently attached over the armor the presence of which shows that that end of the heating element has not been shortened, the free ends of the heating wires projecting through the coupler and being available for connection to the source of power at the junction box.

2,528,967
CIRCUIT STANDARDIZING ACTUATING MECHANISM
John H. Moore, Havertown, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 8, 1949, Serial No. 103,572
17 Claims. (Cl. 74—1)



1. An actuating mechanism comprising an operating member mounted for movement between a latched position and a released position, first resilient means biasing said member toward said released position, second resilient means, means including a rotatably driven cam for gradually accumulating energy in said second resilient means, means operable in timed relation to said cam for releasing said member for movement by said first biasing means, said cam being effective to release said second resilient means a predetermined time after said release of said operating member, and means operable by said second resilient means for returning said member to said latched position thereby to transfer to said first resilient means a portion of the energy accumulated in second resilient means.

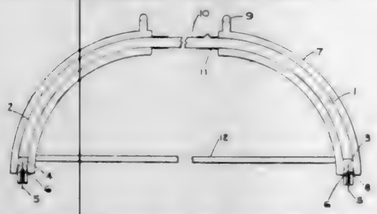
2,528,968
AUTOMATON
Ivar Nelson and Le Roy W. Wallace, Los Angeles, Calif.
Application October 25, 1948, Serial No. 56,422
6 Claims. (Cl. 40—126)

1. An automaton comprising a replica of a shoe maker seated on a stool; a shoe placed between

his knees; a movable right arm holding a hammer, a movable left arm holding the fingers in a position simulating holding a nail; said shoe slidably holding said nail in the path of said hammer and in the path of said fingers of the left arm, a movable neck and head simulating looking down and then around; and a multiplicity

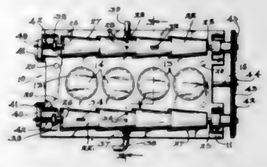
of cams, and connecting arms to cause the movable parts of the body to be actuated by the rotation of the cams, one of said cams and connecting arms being operative to raise said nail to a position projecting above said shoe, and another of said cams and connecting arms being operative to lower said hammer into driving relation with said nail.

2,528,969
LAMP
Franz Oppenheimer, Chicago, Ill., assignor to Michael Reese Research Foundation, Chicago, Ill., a non-profit corporation of Illinois
Application March 7, 1945, Serial No. 581,405
10 Claims. (Cl. 176—122)



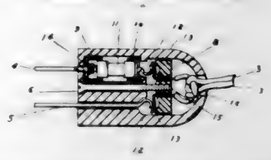
1. A high intensity, low pressure resonance lamp comprising an irradiation tube substantially unimpeded to the emission of ultraviolet irradiations below 2600 A., an electrode chamber at each end of the irradiation tube, the walls of the electrode chambers being formed of thin material to permit rapid heat transfer, a highly emissive cathode arranged in one of the electrode chambers, an anode in the other electrode chamber, a cooling jacket surrounding each of the electrode chambers, each of the cooling jackets being provided with an inlet and an outlet, means for passing a cooling liquid through the cooling jackets, and a quantity of mercury in the lamp in excess of that required to fill the lamp with mercury vapor at 1 mm. pressure, the capacity of the cooling jackets and the cooling means being sufficient to maintain the vapor pressure in the irradiation tube below 1 mm. at a current input of approximately 10 watts per linear centimeter of the lamp and an ultraviolet output below 2600 A. substantially 50 milliwatts per square centimeter measured at 1 centimeter distance, when a liquid at a temperature of 5° C. flows through the jacket at the rate of 2 liters per minute.

2,528,970
ROTARY VALVE INTERNAL-COMBUSTION ENGINE
Nandor Petras, Jackson Heights, N. Y.
Application March 23, 1948, Serial No. 16,538
1 Claim. (Cl. 123—59)



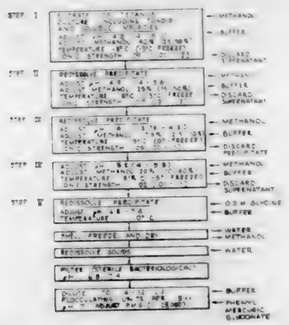
In an internal combustion engine having an engine block formed with a series of open topped cylinders closed by a head secured in position on top of the engine block, the head and the block having in their meeting faces on opposite sides of the cylinders openings sub-divided into a plurality of aligned frusto-conical sections in direct end contact with one another, said openings having laterally aligned frusto-conical sections for each of the cylinders, the head being formed with intake passageways extending between the frusto-conical sections of one of the openings and the cylinders, the head being formed with exhaust passageways extending between the frusto-conical sections of the other of the openings and the cylinders, a rotary valve in each of said openings, each valve being sub-divided into a plurality of aligned frusto-conical sections in direct end contact with each other and located one in each of the frusto-conical sections of the respective opening, each of the frusto-conical sections of said rotary valves having a port placed to pass the respective passageway on each complete revolution of the respective rotary valve, and resilient means urging said rotary valves axial in a direction to maintain the outer faces of the frusto-conical sections of said valves in facial contact with the surfaces of the frusto-conical sections of the openings, the frusto-conical sections of said openings being larger than the frusto-conical sections of said rotary valves providing a slight clearance for axial movement of said valves within said openings under the influence of said resilient means.

2,528,971
FUSED ELECTRIC PLUG
Raymond Philips, Cleveland, Ohio
Application December 29, 1949, Serial No. 135,700
1 Claim. (Cl. 200—115.5)



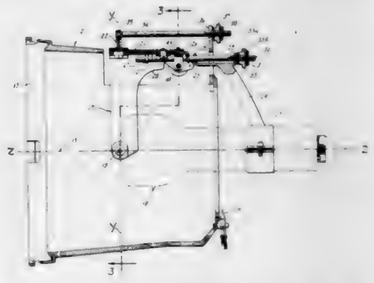
An electrical plug, comprising a body consisting of two separable parts, one of said parts forming a cover and adapted to be retained by the other in assembled position by means of resilient tongues extending lengthwise and on the inner side of said cover part, said tongues engaging in grooves extending lengthwise and on the inner side of the component separable part, said component part being the major part of the body, said major part embodying equi-spaced and parallel channels containing prongs to complete the circuit, a movable block disposed within the major part of the body through which are inserted the terminals of the electric circuit wires, said terminals contacting the inner ends of the prong members, said inner prong ends formed so as to accommodate and facilitate contacting said circuit wire terminals, a screw bolt disposed between the prong members and equi-distant between said parallel channels with the threaded inner end engaging a threaded aperture in said movable block part disposed within the major part of the body to facilitate and provide for adjustment of said block in the body to maintain close electrical contact between said wire terminal ends and formed prong ends, one of said prongs being formed in two sections, a safety means disposed between the two sections of said prong, consisting of a receptacle affixed on the inner end of each of the two sections, a removable and replaceable cartridge fuse disposed and retained between such receptacles, such fuse being of a lesser current carrying capacity than the safe amperage rating provided in the electricity supplying circuit wires.

2,528,972
PROPHYLACTIC TOXOID COMPOUND AND METHOD OF MAKING SAME
Louis Pillemer, Cleveland, Ohio, assignor to Western Reserve University, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1947, Serial No. 748,348
47 Claims. (Cl. 167—78)



1. The method of producing a sterile, stable, non-allergenic, non-anaphylactogenic product comprising toxoid from crude bacterial culture containing said toxoid which includes the step of separating said toxoid from a solution in water thereof and of the allergenic and anaphylactogenic constituents of said crude culture by adding to said solution an alcohol of the group consisting of methanol and ethanol and adjusting said solution to the minimum solubility point of said toxoid by controlling the concentration of said alcohol at from 25% to 50% and the pH at from 4 to 5, while maintaining the temperature below the critical point of protein denaturation at from −3° C. to the freezing point of the solution, separating the resulting precipitate of said toxoid from the supernatant, preparing a solution of said precipitated toxoid in a water solution of non-toxic, non-allergenic, non-anaphylactogenic dipolar ions derived from amino acids of the group consisting of glycine, taurine, leucine and alanine and filtering the solution through a sterile bacteriological filter.

2,528,973
ADJUSTABLE SUPPORT FOR CATHODE-RAY TUBES
Frederick E. Radman, Roslyn, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 6, 1949, Serial No. 69,523
10 Claims. (Cl. 250—141)

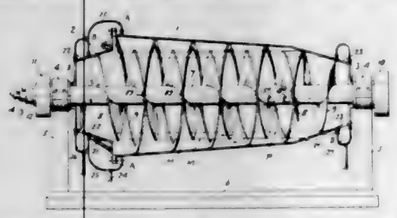


1. For television apparatus and the like including a primary image screen, mechanism for angularly adjusting said screen about a predetermined point as a center of pivotation whereby properly to orient said screen with respect to an optical axis, said point lying approximately in said screen, said mechanism including: means providing for selective rotational adjustment of said screen about either of a pair of individual axes passing through said point in substantially right-angularly related directions and lying substantially in a common plane, said last-mentioned means comprising; structure mounted for pivotal movements about one of said axes, a member carried by said pivotally mounted structure and movable therewith, said member also having freedom for pivotal movements about the other of said axes and independently of said structure, support means carried by said member and providing support for the aforesaid screen, and a pair of control elements one of which is drivingly associated with said structure and the other of which is drivingly associated with said member, said control elements being selectively operable to effect micrometric adjustment of said structure and said member about the associated axes.

2,528,974
METHOD AND APPARATUS FOR CENTRIFUGAL SEPARATION
Howard P. Ritsch, Chicago, Ill., assignor to Process Development Company, a corporation of Illinois
Application September 19, 1945, Serial No. 617,200
13 Claims. (Cl. 233—7)

1. A centrifugal separator for separating granular solids comprising a shell of general cylindrical form, having tapered end portions, a hollow trunnion on each end mounted for rotation, an inlet communicating with a source of supply for continuously feeding pulp comprising solid granules and a liquid carrier into the shell, an inlet communicating with a source of supply for continuously feeding a separating medium into the shell of greater density than some

of the granules and of less density than other granules, an overflow outlet for maintaining a constant level of medium in the shell, a second overflow outlet for maintaining a constant level of the carrier over the medium, a pulley connected to one of the trunnions for rotating the shell to maintain the separating medium together with the denser granules in an outer annular layer while the less dense granules are maintained in an inner annular layer of the carrier,



there being a discharge opening for granules in each tapered end portion of the shell, a worm for feeding the outer layer of denser granules in the medium from under the carrier to the opening in one end of the shell, and a second worm to which the first worm is connected for feeding the inner layer of less dense granules within the carrier over the denser granules in the medium to the opening in the other end of the shell without disturbing the medium.

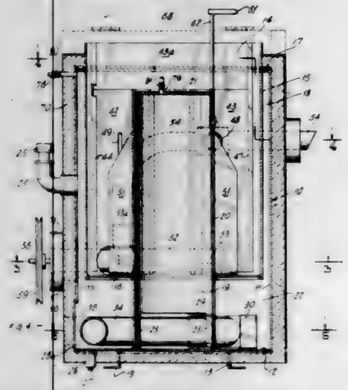
2,528,975

APPARATUS FOR MELTING RUBBERIZED BITUMINOUS COMPOSITIONS

Arthur M. Root, Jr., Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application September 9, 1947, Serial No. 772,961

6 Claims. (Cl. 126—343.5)



1. Apparatus for melting rubberized bituminous compositions by indirect heating means, which comprises a tank for holding the material, a jacket on the wall of the tank, means forming a chamber beneath the bottom of the tank adapted to contain a liquid heat transfer medium vaporizable at low pressures to provide vapor at temperatures of from 450 to 520° F., said chamber communicating with the jacket, heating means extending into the chamber for vaporizing the liquid heat transfer medium, a hollow member having an open end in communication with the chamber and a closed end extending upwardly into the tank in spaced relationship to the inner walls of the tank, and a positive pressure discharge assembly mounted in said tank adjacent the bottom thereof.

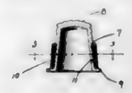
2,528,976

SEWING THIMBLE

Edward L. Schiavone, Silver Spring, Md.

Application March 5, 1947, Serial No. 732,555

2 Claims. (Cl. 223—101)



1. A sewing thimble comprising a hollow body of relatively hard, strong material, one end of said body being closed and the opposite end open, and a substantially wide flat resilient friction band encircling the body adjacent the open end thereof, said friction band being tightly held along the axial length of said body and extending a substantial distance therealong providing a frictional surface into which a needle may be pressed and frictionally held in pulling said needle through a material.

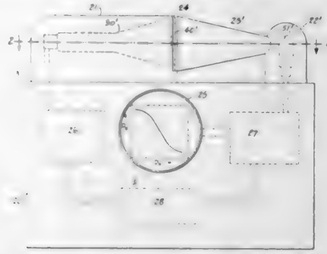
2,528,977

SENSITOMETRIC DEVICE

Alfred Simmon, Jackson Heights, N. Y., assignor to Simmon Brothers, Inc., Long Island City, N. Y., a corporation of New York

Application March 27, 1948, Serial No. 17,537

2 Claims. (Cl. 88—14)



1. A device for plotting the density of points of a photographic reproduction as a function of the density of the corresponding points of an original object, comprising means to illuminate said reproduction and said original, respectively, by two moving pencils of light, including means to synchronize the movements of said pencils of light whereby corresponding points of reproduction and original are always illuminated simultaneously, two photoelectric cells including electric circuits operatively connected therewith, and including means causing said cells to receive light coming from said two pencils and modified by the respective densities of said reproduction and said original, means to render the output voltages of said photocell circuits proportional to the respective densities of said reproduction and said original, a cathode ray tube including means to form a beam of electrons, first means to deflect said beam of electrons in one direction, second means to deflect said beam in a direction perpendicular to said first named direction, means to accelerate said electrons, and a screen capable of light emittance when struck by electrons, and means to actuate said two deflecting means, respectively, by the output voltages of said two

photocell circuits, said means to illuminate said reproduction and said original, respectively, comprising two cathode ray tubes, each including means to form a beam of electrons, means, including a grid, to control the number of said electrons, means to deflect said beam of electrons, means to accelerate said electrons, and a screen capable of light emittance when struck by electrons, and said means to render the output voltages of said photocell currents proportional to the respective densities of the reproduction and of the original, comprising two modifying circuits, each fed by the respective current of one of said photocells, and delivering an output voltage substantially according to the formula

$$e = A\left(1 - \frac{i.10^{-\frac{i}{B}}}{C}\right)$$

where

e is the output voltage of one of said circuits,
i is the corresponding photocell current, and
A, B and C are constants,

and means to impress the two output voltages, respectively, upon the two grids of said cathode ray tubes, whereby the brightness of the two luminous points on the two respective screens is automatically modulated in accordance with the respective densities of the two corresponding points of reproduction and original which are illuminated at any given instance.

2,528,978

SYNTHESIS OF PYRIDINE BASES

Curtis W. Smith, Berkeley, and Seaver A. Ballard, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 21, 1949, Serial No. 94,728

12 Claims. (Cl. 260—290)

1. A process for the direct synthesis of pyridine, which comprises passing a gaseous mixture comprising 2-(Δ^5-dihydropyranyl) methyl ether and ammonia into contact with a solid catalyst comprising activated alumina at a temperature within the range of from about 300° C. to about 540° C.

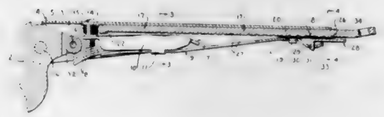
2,528,979

ADJUSTABLE LENGTH WINDSHIELD WIPER ARMS

Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., an Indiana corporation

Original application February 11, 1944, Serial No. 521,903. Divided and this application April 5, 1946, Serial No. 659,981

5 Claims. (Cl. 15—250)



1. In a windshield wiper, in combination, a supporting section, a supported section carried thereby with capacity for longitudinal adjustment relative thereto, a spring unit carried by the supporting section for engagement with a still further wiper arm section upon which the supporting section is carried, to bias the supporting and supported sections toward a windshield, means carried by the supporting section for adjusting the spring unit to alter the spring bias, said supporting section including a front body member and side walls disposed rearwardly thereof, the side walls including forward portions adjacent the front body member for defining with the front member a continuous channel for the reception of the supported wiper arm section, said side walls engaging and sustaining the spring unit rearwardly of said channel and preventing operation of the spring unit into a channel obstructing position, and rear portions more widely spaced than the forward portions, between which the spring unit is substantially contained.

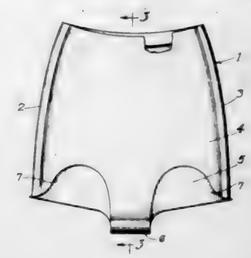
2,528,980

RUBBER OR LATEX ARTICLE

Abraham N. Spanel, Princeton, N. J.

Application December 6, 1945, Serial No. 633,084

8 Claims. (Cl. 2—43)



1. An article of wearing apparel having at least one open end and adapted to extend along a part of the human body, said article comprising a latex or the like rubber film adapted to contact directly with and encircle a part of the human body, said article further comprising an inner band formed from latex foam adhering to a part only of said film and having an exposed inner latex foam surface adapted, throughout the area thereof, to directly and intimately engage an area of skin on the surface of the human body, said rubber film overlying said latex foam band being the sole means for holding said band in intimate engagement with the body of the wearer.

2,528,981

FORMATION TESTING APPARATUS

John C. Stokes, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application October 15, 1948, Serial No. 54,665

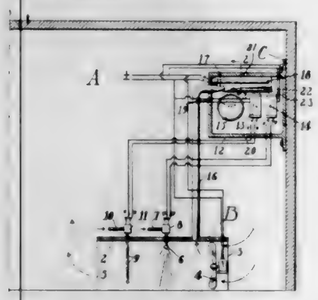
13 Claims. (Cl. 255—1.4)

1. A formation testing apparatus including, a tubular assembly adapted to be removably latched within a drill pipe, said assembly comprising, a fluid sample receiving chamber, suction means within the chamber for drawing the fluid sample into said chamber, and operating means exposed to and actuated by the hydrostatic pressure within the drill pipe for operating the suction means, and locking means

engageable with the operating means for locking the same against actuation, said locking

means being selectively releasable by manipulation of the drill pipe.

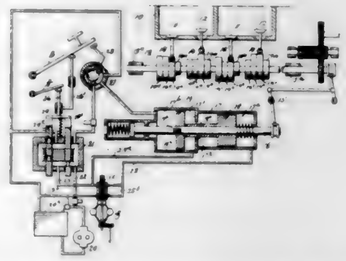
2,528,982
DEVICE FOR CONTROLLING AIR CONDITION
Rush D. Touton, Wynnewood, Pa., assignor to Wurton Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 5, 1946, Serial No. 674,525
5 Claims. (Cl. 236—44)



1. A device for controlling air condition comprising a casing, a nozzle extending horizontally within the upper portion of said casing for the direction thereinto of a sample of air the condition of which is to be controlled, an outlet for air from the casing below and adjacent to said nozzle, an elongated heating element within said casing positioned above and extending in parallelism with a line projected on the axis of said nozzle, and a membrane hygrostat positioned within said casing at a point below and relatively remote from the discharge end of said nozzle and from said heating element.

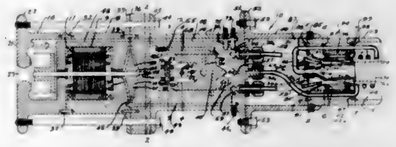
2,528,983
MEANS FOR SAVING FUEL IN INTERNAL-COMBUSTION ENGINES
Abraham Weiss, New York, N. Y.
Application April 17, 1945, Serial No. 588,818
10 Claims. (Cl. 123—52)

1. In a multiple cylinder internal combustion engine having an intake and exhaust valve in each cylinder, means for automatically causing the intake valves to close and the exhaust valves to open so as to render said cylinders temporarily ineffective at predetermined speeds of said engine, said means including driven displaceable members adapted to actuate said valves, speed re-



sponsive means and manual means, both said last means being adapted in cooperation to control the displacement of said members, and means capable of restoring the effectiveness of said cylinders irrespective of speed.

2,528,984
FLUID FUEL BURNER HAVING PREHEATING AND SUPERHEATING MECHANISM FOR AIR AND STEAM EMPLOYED IN THE BURNER
George Mason Wilhelm, New York, N. Y.
Application June 27, 1946, Serial No. 679,609
4 Claims. (Cl. 158—74)

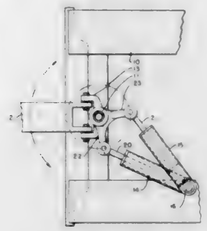


1. In a fluid fuel burner, a hollow casing member, a partition for dividing said casing member into a forward compartment and a rear valve chamber, said partition having a port for said valve member, a reciprocatory valve member in said valve chamber, a rotary drum within said forward compartment having one or more internal spirally arranged vanes, a hollow core member having an open forward end within said drum, means for delivering a fluid fuel under pressure into the space between said core and drum for impinging on said vanes for rotating said drum, a coil for superheating a fluid in the forward portion of said compartment forwardly of said core and drum, one end of said coil being connected to said port in said partition and the other connected with the rear end of said hollow core member.

2,528,985
HYDRAULICALLY ACTUATED SWING BOOM CRANE
Harry Wunsch, Brooklyn, N. Y.
Application January 22, 1947, Serial No. 723,608
4 Claims. (Cl. 212—66)

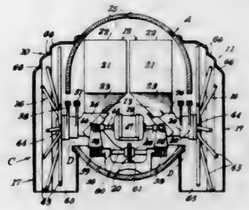
1. A hydraulically actuated swing boom crane comprising a rotatable supporting means, a boom carried by said means, said rotatable supporting means including two crank arms extending radially from the axis of said supporting means in planes diverging at an acute angle to each other,

a hinge connection at the outer end of each arm, said hinge connections being movable in parallel planes spaced about from each other vertically, and hydraulically actuated means for rotating said supporting means including two cylinders,



means for supporting said cylinders to turn in said respective parallel planes, a piston in each cylinder having a piston rod connected to its respective hinge connection and hydraulic means for actuating said pistons and turning said supporting means.

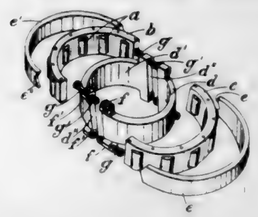
2,528,986
AERIAL SEED DISTRIBUTOR
Lytle S. Adams, Los Angeles, Calif.
Application May 24, 1945, Serial No. 595,633
24 Claims. (Cl. 275—8)



1. A seed pellet distributor including the fuselage of an aeroplane, and similar but oppositely arranged distributors carried by said fuselage, each distributor including a seed pellet hopper within the fuselage, a chute receiving seed pellets from said hopper within the fuselage and having a seed pellet receiving chamber directed through an opening in said fuselage, an adjustable gate controlling the quantity of seed pellets passing from said chamber, and a centrifugal seed pellet projector receiving seed pellets from said chamber through said gate.

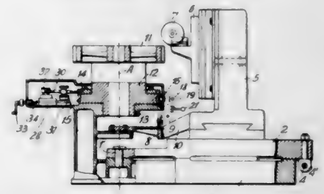
2,528,987
BALL AND ROLLER BEARING
Charles Antony Ablett, Norfolk, England
Application December 4, 1947, Serial No. 789,614
In Great Britain May 11, 1940
6 Claims. (Cl. 308—216)

1. A bearing comprising, in combination, an outer race, a row of rollers working therein, an inner race comprising at least two sections assembled circumferentially end to end to form the raceway, and screw-tightened clamping means bridging the joints between said sections for clamping them around a shaft, the combined inner race sections being slightly shorter circumferentially than required to complete the whole circumference of the raceway and being clamped in assembled position with narrow gaps between their adjacent ends, said sections being made of steel and their grain-formation throughout fol-



lowing the curvature of the race circumferentially.

2,528,988
INDEX DEVICE FOR GEAR GRINDING MACHINES
Albert Aeppli, Zurich, Switzerland, assignor to Maag-Zahnräder und-Maschinen Aktiengesellschaft, Zurich, Switzerland
Application August 18, 1947, Serial No. 769,251
In Germany November 16, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 16, 1962
3 Claims. (Cl. 51—55)

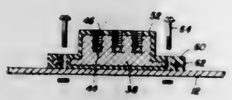


3. A gear grinding machine, comprising supporting means for fastening the work thereto, a grinding tool for grinding said work on said supporting means, a toothed dividing wheel coaxially arranged with said work, coarse dividing means coaxially arranged with said dividing wheel, adjustable feeler means for contacting with the tooth flanks on said dividing wheel after the coarse dividing having been effected in accordance with a length approximating the amount of a tooth pitch, an adjustable carrier for said feeler means, coupling means for coupling said carrier to said coarse dividing means, including a locking disc secured to the coarse dividing means and a locking stop connected to said carrier and cooperating with said locking disc for limiting the further rotation of said dividing wheel to an amount corresponding to the fine dividing when said feeler means is moved into engagement with a tooth gap of said dividing wheel, and an indicating device associated with said dividing wheel for indicating the position of the tooth system on said wheel and thus that of the tooth system of the work relative to said tool, the dividing wheel being turned until said indicating device indicates a predetermined value.

2,528,989
JUNCTION BOX
John G. Ammells, Haverhill, Mass.
Application June 4, 1948, Serial No. 31,110
2 Claims. (Cl. 174—59)

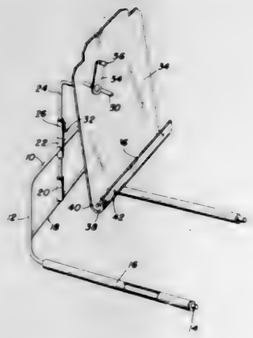
1. A junction box comprising a substantially hexagonal casing having alternate long and

short sides, a plurality of circumferentially spaced conductive blocks detachably mounted in said casing and opposing the long sides of said casing, attaching ears integrally formed with each of said blocks and having openings therein, sockets provided in one face of each of said blocks, internally threaded apertures provided in one face of each of said blocks communicating with said sockets, an insulated cover for each



block having openings in registry with the recesses in the sockets, said covers including sleeve portions received in the openings in said attaching ears, fasteners received in said sleeve portions, and means receivably engaging said threaded apertures to retain wires positioned in said sockets, said covers completely enclosing said blocks, the short sides of said casing having apertures for receiving cables.

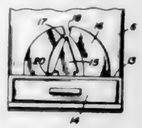
2,528,990
COPYHOLDER
Frank C. Atwood, Long Beach, Calif.
Application February 3, 1948, Serial No. 6,113
3 Claims. (Cl. 120—28)



1. A copy holder comprising a base, an adjustable support carried by said base, a copy support adjustably carried by said adjustable support, means mounted on said copy support for urging a copy against said copy support, and means carried by said copy support for rotatably engaging a copy holding roller, said last mentioned means including an elongated roller engaging channel and removable stop means carried by said channel for limiting lateral movement of a roller relative to said channel.

2,528,991
BOBBY PIN HOLDER AND OPENER
Maurice D. Auman, Belvidere, Ill.
Application November 29, 1948, Serial No. 62,574
4 Claims. (Cl. 132—1)

4. A bobby pin opener comprising a spreader including a base structure and a blade of substantially arrow-head shape rising from the base, a guide at each edge of the blade, and an en-

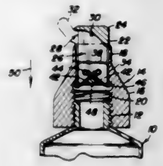


trance for a bobby pin between the upper ends of the guides leading to the point of the blade.

2,528,992
TOOTHBRUSH
Roy E. Barr, Childress, Tex.
Application September 21, 1946, Serial No. 698,578
3 Claims. (Cl. 15—167)

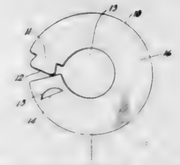
1. A toothbrush comprising an elongated handle forming member, brush means for the anterior teeth formed integrally with the end of said member, said brush means including a pair of coplanar relatively diverging arms formed integrally with one end of said member, the plane defined by said arms extending longitudinally of said member, bristle supporting heads attached to the ends of each of said arms, the inner surfaces of said heads diverging outwardly relative to each other longitudinally of the handle member, bristle tufts supported by the inner surfaces of said heads, the free ends of the bristles on each of said heads defining a surface which is parallel to the inner surface of the head to which the bristles are attached, the bristles extending from the inner edge of each of said heads terminally contacting each other.

2,528,993
DISPENSING CLOSURE FOR COLLAPSIBLE TUBES
Harold W. Beach, Abilene, Kans.
Application February 11, 1949, Serial No. 75,803
1 Claim. (Cl. 222—492)



A dispensing closure comprising a vertically elongated body having an axial bore and an annular groove disposed intermediate the ends of said bore, said body being provided in said bore with a pair of diametrically opposite channels extending longitudinally from the upper end of the body to said groove, a hollow cylindrical closure member slidable in the upper portion of said bore and having open opposite sides at least one of which affords a lateral outlet passage when said member is projected upwardly from the bore, a cross-piece provided in the lower end of said member, and combined means for sliding said member downwardly and preventing upward withdrawal thereof from said bore, said means comprising a single length of resilient wire angulated to provide an inverted U-shaped body portion and a pair of crossed inwardly extending arms terminating in free extremities, said U-shaped body portion including a bight region extending transversely of said closure member above said cross-piece, and a pair of laterally projecting detents provided on said wire at the junctions of said U-shaped body portion with said arms, said detents being seated in said groove.

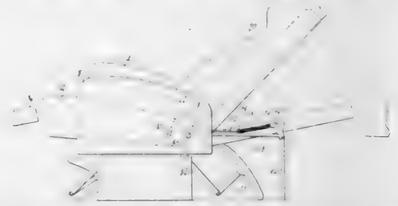
2,528,994
HAIR CURLER
Mary E. Beguhn, Detroit, Mich.
Application February 23, 1946, Serial No. 649,536
1 Claim. (Cl. 132—44)



A hair curler comprising a circular strip of bendable material provided at one end thereof with a wedge-shaped tongue having a straight end edge of a lesser width than the width of said strip, side edges of said tongue being straight and extending in inwardly convergent relation from said end edge to a cross-sectionally reduced neck whereby said tongue is integrally connected to said strip, the remaining end portion of said strip being formed with a transversely extending segment-shaped opening having an arcuate edge portion and a straight edge portion which extends between the opposite ends of said arcuate edge portion and is of a lesser dimension than the width of the end edge of said tongue, said tongue being receivable in said opening and the convergent side edges of the tongue being engageable with the arcuate edge portion of said opening, whereby the ends of the strip may be locked together while said strip assumes a frusto-conical form.

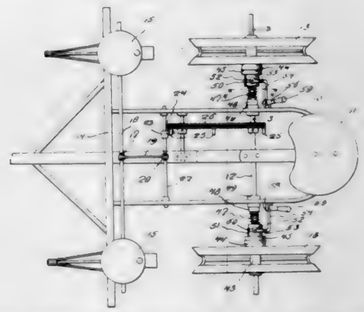
2,528,995
RECLINER CHAIR WITH LEG REST
Alfred B. Bell, Philadelphia, Pa., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application April 26, 1945, Serial No. 590,346
9 Claims. (Cl. 155—8)

6. A recliner chair comprising a seat frame, a back rest pivotally connected to said frame to rock about a horizontal axis, a leg rest pivotally connected to said frame to rock about the same horizontal axis, a support bracket hinged to said leg rest and rockable from a position parallel therewith to a vertical position, a guide member on said frame, a pivot element movable up and down a limited distance in said guide member, a link having its lower end connected to said pivot and its upper end connected to said sup-



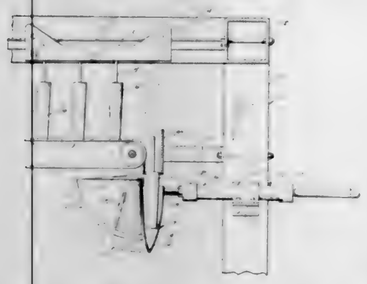
port bracket, and spring means pressing said pivot toward its uppermost position.

2,528,996
CORN PLANTER
James L. Binkley, Lima, Ohio
Application June 13, 1947, Serial No. 754,381
1 Claim. (Cl. 275—9)



In a planter, a wheeled support, seed-dispensing mechanism mounted upon the support near the front end thereof and including a first horizontal rock shaft extending transversely of the support, a vertically swingable crank arm secured to said rock shaft, a second horizontal rock shaft journaled upon the support and extending transversely thereof and parallel to the first rock shaft and arranged substantially at the elevation of the first rock shaft, the second rock shaft being spaced rearwardly of the first rock shaft, a crank arm secured to the second rock shaft and arranged in substantial alignment with the crank arm of the first rock shaft, a substantially horizontal link connecting the crank arms of the first and second rock shafts and extending longitudinally of the support, a radial trip lever secured to the second rock shaft and spaced laterally of the crank arm of the second rock shaft, a horizontal stub shaft journaled upon the support rearwardly of the second rock shaft and disposed at substantially the same elevation as the first and second rock shafts and parallel thereto, the wheeled support including a horizontal rotatable axle disposed rearwardly of said stub shaft and near the elevation of the stub shaft and parallel with the first and second rock shafts and stub shaft, aligned sprocket wheels secured to the stub shaft and axle and positioned adjacent to the trip lever of the second rock shaft, an endless sprocket chain mounted upon the sprocket wheels and driven by rotation of the axle, and pins secured to the sprocket chain and spaced longitudinally thereof and extending beyond one side of the sprocket chain for engagement with the trip lever to turn the first and second rock shafts in unison.

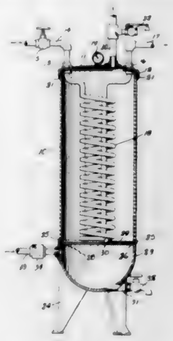
2,528,997
CONFECTION PACKAGING MACHINE HAVING CONFECTION CONVEYING MEANS AND A HORIZONTALLY ARRANGED SUCTION MEANS FOR OPENING BAGS TO RECEIVE THE CONFECTIONS
Vinson Blanchard, Abington, Mass.
Application May 20, 1949, Serial No. 94,343
2 Claims. (Cl. 226—2)



1. In an article packaging machine, a first horizontally disposed conveyor adapted to support and convey a plurality of confections in upright position to the discharge end thereof, a second conveyor positioned in parallel spaced relation with respect to said first conveyor and engageable with the adjacent ends of said confections, a vertically disposed guide chute positioned adjacent the discharge end of said first conveyor, a magazine adapted to contain a plurality of bags in side by side vertical stacked position positioned below said first conveyor and said chute and facing toward said chute, and a horizontally disposed bag opening device having one end facing said magazine and mounted for movement toward and away from said magazine, said device comprising a horizontally disposed closed ended hollow casing positioned in end to end relation with respect to said magazine and spaced from the latter, a piston positioned within said casing and mounted for sliding movement therein, a hollow piston rod extending through one of the closed ends of said casing and having one end extending through and secured to said piston, the other end of said piston rod projecting out of and terminating at a point beyond said one closed end of said casing, port openings formed in said one closed end of said casing, spring means positioned within said casing and having one end bearing against said piston and having the other end bearing against the other closed end of said casing for biasing the projecting end of said piston rod toward said magazine, and conduit means extending through the other end of said casing and adapted to be attached to a source of suction conducting means.

2,528,998
WATER AND FUEL HEATER
Ralph G. Bolin, Houston, Tex.
Application January 29, 1946, Serial No. 643,995
2 Claims. (Cl. 257—205)

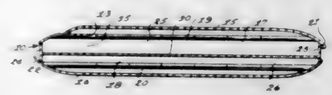
1. A heater for fluid comprising an upright hollow cylinder having a closed top and having closed inverted hemispherical bottom, a spider supported across the interior of said cylinder at the level of said inverted hemispherical bottom, annular flange rising centrally from said spider and providing a seat, a helical heating fluid coil having its lower end supportably confined within said seat whereby said coil is centered in said hollow cylinder, said heating coil rising to a point near said closed top of the cylinder, the upper end of said coil having an inlet terminal rising through said top for connection with a source of heating fluid, the lower end of said coil having a straight portion rising within said coil and having an outlet terminal on its upper end rising through said top, an inlet conduit for fluid to be heated traversing the side of said cylinder below said spider whereby fluid to be heated is charged into said cylinder to rise to the top thereof, and an outlet conduit for heated fluid traversing said cylinder top.



2,528,999
METHOD OF FORMING CONCRETE PILES
Thomas C. Bruns, New Orleans, La.
Application January 9, 1947, Serial No. 720,980
8 Claims. (Cl. 61—57)

2. The method of constructing and sinking a concrete pile which comprises preforming a hole in the ground, arranging a ground collar in the upper end of such opening with its upper end projecting above the surface of the ground, arranging a form over and in alignment with said hole and surrounding the upper end of said ground collar, pouring concrete into the upper end of said form to fill the hole in the ground, said ground collar and said form, and driving the resultant pile into the ground after it has hardened.

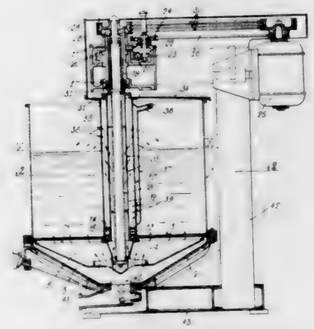
2,529,000
COMBINED SPECTACLE AND UTILITY CASE
Carl F. Cameron, Marcellus, Mich.
Application September 17, 1948, Serial No. 49,741
2 Claims. (Cl. 206—6)



1. A combined spectacle and utility case comprising a hollow casing of elongated symmetrical

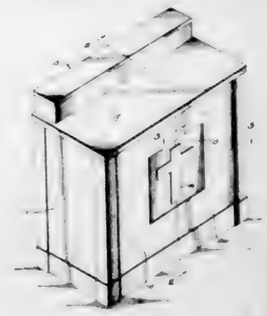
shape formed with a relatively small access opening in its top displaced toward one end of said casing and a relatively large opening in its bottom centered with respect to the sides and ends of the case, a partition dividing the interior of said casing into upper and lower compartments reached through said access openings, an upper closure hinged along one side of said casing, said upper closure being relatively small and having a truncated end terminating in spaced relation to the end of said casing from which the top access opening is displaced and exposing a substantial area of the top of said casing, a lower closure hinged along the opposite side of said casing, said lower closure being relatively large and centered with respect to the sides and ends of said casing and substantially covering the bottom of the casing, the end of said upper closure remote from said truncated end projecting beyond the adjacent end of the casing and said lower closure having an end projecting beyond the opposite end of said casing, said projecting closure ends serving as finger grips for selectively opening said closures.

2,529,001
MACHINE FOR THE LIQUID TREATMENT OF TEXTILE MATERIALS
Marcel Cassé, Essonnes, France
Application August 7, 1945, Serial No. 609,374
In France April 28, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 28, 1962
3 Claims. (Cl. 68—184)



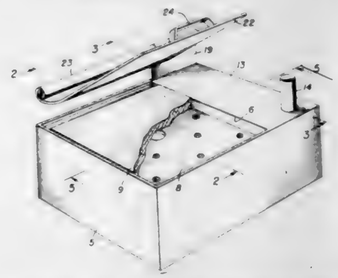
1. A machine for dyeing, bleaching, washing, finishing, and like treatment of textile goods comprising a vat for the treating bath including a cylindrical body having a main bottom and a perforated false bottom above the main bottom, a rotatable hollow distributor having an aperture arranged to sweep the underside of the false bottom, a propeller operable to induce circulation of the bath upwardly through the distributor and those of the perforations in the false bottom overlying the distributor aperture and downwardly from the body through the remaining perforations in the false bottom outlying said distributor aperture, a stationary tube secured to the central portion of the perforated bottom to support and stiffen the latter, drive means for the propeller including a shaft extending upwardly through the tube and drive means for the distributor including a tubular shaft surrounding the propeller shaft and having an open lower end for the admission of the bath and perforations at its upper end for the discharge of the bath, said stationary tube having perforations therein for discharging the bath above the level of the latter in said vat.

2,529,002
PORTABLE ALTAR CONSTRUCTION
Emanuel I. Cohen, Philadelphia, Pa.
Application December 23, 1947, Serial No. 793,543
2 Claims. (Cl. 312—33)



1. A portable, collapsible altar comprising a front wall consisting of two sections joined at their meeting edges by hinge means, the rotational axis of said hinge means being spaced a predetermined distance from the plane of said sections, each of said sections having a free edge, a respective side wall pivotally joined at said free edge of each section on an axis spaced from the plane of said section a predetermined distance substantially equal to said first predetermined distance, and compartment means carried by each of said side walls and having a depth less than said predetermined distance whereby said compartment means may nest within respective front wall sections when said altar is folded.

2,529,003
BELT CLEANER
John P. De Witt, La Mesa, and Jack O. Butler, Chula Vista, Calif., assignors of one-half to Wallace M. Johnson, San Diego, Calif.
Application August 19, 1948, Serial No. 45,134
5 Claims. (Cl. 15—140.2)

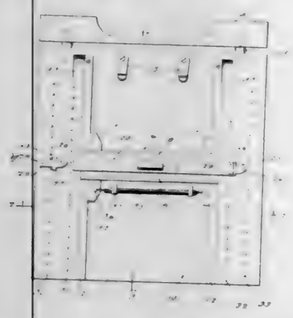


1. A cleaner of the class described comprising a tank, a perforated tray in the top of the tank, a pad supported on the tray, a pump arranged for supplying a cleaning fluid from the tank to the pad to saturate the pad, and means for holding an article to be cleaned on top of the pad while drawing the article over the pad.

2,529,004
POWDER APPLICATOR HAVING A POWDER-RECEIVING SPOUT AND A RECESSED OUTLET ACCOMMODATING A TOOTHBRUSH
Virgil D. Eley, Philadelphia, Pa.
Application February 1, 1946, Serial No. 644,751
3 Claims. (Cl. 222—48)

1. A tooth powder applicator comprising a cylindrical container with one end closed and the other open, said container having an elongated slot in one side adapted to receive the bristles of a tooth brush, a filling spout secured to said container and at a point removed from said slot, said spout having converging sides with a comparatively small outer end and adapted for inserting in an outlet opening of a tooth powder container, and an inner cylindrical shell slidable in said container, said shell having one end closed and the other end open and also having an elongated slot adapted to register with the elongated slot of the container and with the spout, said inner cylindrical shell being disposed in said container with its closed end at the open end of the container and its open end at the closed end of the container.

2,529,005
WRITING GUIDE FOR THE BLIND
Myrtle M. Erickson, Longview, Wash.
Application May 2, 1947, Serial No. 745,398
3 Claims. (Cl. 35—38)

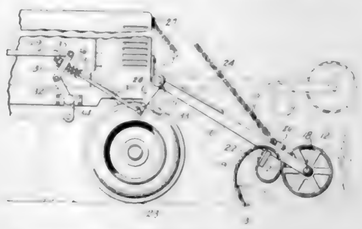


1. A writing guide for the blind comprising a rectangular board having its upper end mounted on a supporting surface, four parallel rows of spaced projecting pins on the upper surface of said board, a pair of said rows of pins arranged along the opposite sides of said board and defining therebetween a writing area, the pins of the respective pairs of rows being staggered with respect to each other and the individual pins of alternate rows of the respective pairs being in parallel alignment with the upper end of the board, an elongated guide member disposed across said writing area, means mounting said guide member perpendicular to said rows of pins for sliding movement parallel therewith, a spacer bar mounted on said guide member for reciprocal sliding movement longitudinally thereof and having its ends projecting beyond the ends of said member and above said pins, a deflector on each of the projecting ends of the bar disposed intermediate the rows of pins of the proximate pair of rows for coaction successively with adjacent pins of first one and then the other row of said pairs of rows at each reciprocation of the spacer bar for imparting step by step line spacing movement to said guide member, and a writing implement guide means on said member.

2,529,006
METHOD FOR PREPARING WOODEN BATTERY SEPARATORS
Eduard Farber and Matthew Sciascia, Washington, D. C., assignors, by mesne assignments, to Evans Products Company, Plymouth, Mich., a corporation of Delaware
No Drawing. Application April 26, 1948, Serial No. 23,378
4 Claims. (Cl. 117—59)

1. A method for treating wooden battery separators comprising initially extracting the separators with an alkali, water washing the extracted separators to saturation, subjecting the water-washed saturated separators to a partial impregnation by contacting the separators for a time period of from 1 to 5 minutes with an aqueous impregnating solution maintained at a temperature within the range of about 55° C. to about 90° C., said solution consisting of water and an impregnating material selected from the group consisting of ethylene glycol and monomeric sugar, to remove a portion of the water in the separators and effect at least partial replacement of the removed water with said impregnating material, and thereafter drying the so impregnated separators, said impregnating solution containing from about 60 to about 80 percent by weight of said material when ethylene glycol is employed, and from about 40 to about 60 percent by weight of said material when monomeric sugar is employed.

2,529,007
TRACTOR RIDGE LEVELER
Gene C. Ferguson, Oskaloosa, Iowa
Application December 24, 1946, Serial No. 718,205
1 Claim. (Cl. 37—181)



In a tractor ridge leveler comprising a frame hinged at the rear end thereof to the forward end of a tractor, a front wheel rotatably mounted at the front central portion of the frame, a pair of spiral springs secured upon the latter intermediate the front wheel and the front wheels

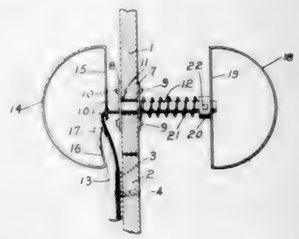
of the tractor, and means limiting the downward movement of the frame for operation, the features which include a horizontal transverse bearing fixed upon the forward end of the tractor, a transverse shaft extending rotatably through the bearing and together therewith forming the hinge connection between the frame and the tractor, the shaft being rigidly fixed to the rear end of said frame, a depending arm rigidly fixed upon one end of the shaft, a brace fixed upon the shaft intermediate said bearing and the depending arm and overlying the frame and secured thereto intermediate the forward and rear ends thereof, a link pivotally connected at the forward end thereof to the lower end of said arms, and manually operated levers connected to the rear end of said link for raising and lowering said frame.

2,529,008
GATE
Jesse D. Flory, Eaton, Ohio
Application October 14, 1947, Serial No. 779,676
2 Claims. (Cl. 39—1)

1. A gate comprising a U-shaped frame having two legs and a bight connecting one end of said legs together, a bar positioned longitudinally of the bight of said frame and intermediate the legs of said frame inwardly of and spaced from the free end thereof, a fish tail provided with a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said bar with the other end fixedly secured to the adjacent end of said bar, the thin edge one end of each of said fish tails being engaged with the portion inwardly of and spaced from the free end of the adjacent leg of said frame and secured by a weld thereto, a second bar positioned transversely of and within said frame intermediate and spaced from the legs of said frame, and a fish tail having a thin edge at one end thereof and having its sides converging toward the other end positioned in alignment with each end of said second bar with the other end fixedly secured to the adjacent end of the latter bar, the thin edge one end of one of said fish tails on said second bar being engaged with and secured by a weld to the adjacent portion of the bight of said frame and the thin edge one end of the other of said fish tails on said second bar being engaged with and secured by a weld to the adjacent portion of said first bar.

2,529,009
BARN DOOR LATCH
Hans L. Foss, Barron, Wis.
Application March 4, 1946, Serial No. 651,710
1 Claim. (Cl. 292—202)

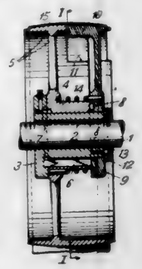
A door latch comprising a bar of stiff metal bent intermediate its length to form a shank of dimensions adapting it to be rotatably and slidably mounted through a wall and a door-securing arm extending laterally from the outer end of the shank, an outer handle consisting of a strip of stiff metal bowed longitudinally and bent in spaced relation to its ends to form an arcuate hand grip and bridge portions extending inwardly towards each other from ends thereof, one bridge portion being formed with an opening through which said shank passes and the other being arcuate transversely and disposed against said arm and conforming to the transverse curvature of the arm and welded thereto, and an inner handle on the inner end of the shank.



2,529,010
POLYMERIZATION OF OLEFINS
Alvin H. Friedman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application April 15, 1946, Serial No. 662,413
6 Claims. (Cl. 260—683.15)

1. A process for polymerizing an unsaturated polymerizable hydrocarbon and for forming a catalyst which comprises admixing said unsaturated hydrocarbons with hydrogen fluoride, contacting the resulting admixture while in the vapor phase with a silica containing material capable of reacting with said hydrogen fluoride to form silicon tetrafluoride and polymerizing said unsaturated hydrocarbon in the presence of the thus formed silicon tetrafluoride while maintaining said hydrocarbon in a vapor phase.

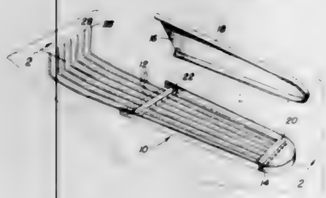
2,529,011
BELT-ELEVATOR OVERLOAD THROWOUT CLUTCH
Rudolf Fuchs, Weinfelden, Switzerland, assignor to Gebruder Buhler, Uzwil, Switzerland
Application November 19, 1946, Serial No. 710,878
In Switzerland November 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 1, 1965
3 Claims. (Cl. 192—56)



1. A clutch adapted to automatically disengage and re-engage a drive pulley of a conveyor belt

with respect to a drive shaft, comprising a bushing keyed to the said shaft, a pulley having a hub rotatably mounted on said bushing and having a belt-contacting rim, a segmental pulley arm having a hub also mounted rotatably on the said bushing, the belt-contacting rim of the pulley having a segmental recess into which said arm extends into contact with the belt, said recess being of greater peripheral extent than the arm, whereby when the belt is locked against movement the arm moves in said recess, spring means operatively interconnecting said driving pulley and segmental pulley arm for restoring the latter relative to the former, the said bushing and segmental-pulley hub being provided with circularly spaced recesses on their opposite faces, the pulley hub having circularly spaced longitudinal parallel bores extending entirely therethrough, a plurality of keys slidably fitting in said bores and extending into the recesses of either the bushing or hub of the segmental pulley arm to operatively interconnect either the driving pulley with the driving shaft or the segmental pulley-arm with the driving pulley, whereby the normally engaged driving pulley is disengaged from the driving shaft to idle when the elevator belt is overloaded and is re-engaged automatically upon removal of the cause of such overload.

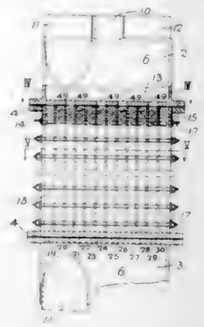
2,529,012
RAKE
John I. Gleekman, Trenton, N. J.
Application June 17, 1948, Serial No. 33,507
2 Claims. (Cl. 119—83)



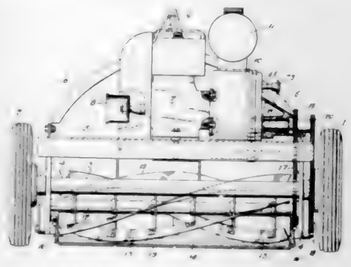
1. In a rake for use in combing animal hair, an elongated flat housing having an open end and an opposite end and being relatively wider at the open end than the opposite end, a plurality of resilient spaced tines in part disposed in said housing and in part extending through the open end, the parts of the tines extending from the housing having smoothly curved bends therein and terminating in sharply angled extensions, cross members having apertures disposed in spaced relationship within said housing and having the parts of said tines within said housing disposed in said apertures thereby supporting said tines at spaced points of the tines within the housing.

2,529,013
HEAT EXCHANGER
Walter Gloyer, Port Washington, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application May 10, 1945, Serial No. 592,949
1 Claim. (Cl. 257—245)

A heat exchanger comprising a shell; a row of adjacent plates extending completely across and lengthwise through and partitioning said shell into a plurality of compartments; a single header at each end of said shell, each header having three chambers, each extending crosswise of said compartments, a nozzle for each chamber, and a single wall covering the adjacent ends of said compartments, said wall having ports in each chamber, each of said compartments communicating at one end with only one of said ports of the adjacent header and communicating at its other end with only one of said ports of the other of said headers, no two adjacent compartments communicating with the same chamber; and rows of closely spaced pin fins extending from opposite sides of each of said plates, the fins of adjacent plates interfitting, the interfitting fins being conical, each with its base adjacent its plate and the fins on the outer sides of the outer plates being cylindrical, said fins filling the major portion of said compartments, greatly reducing the net free flow area thereof.



2,529,014
ROTATING CUTTING REEL POWER LAWN MOWER
Harry Goldberg and Milford D. Burrows, Chicago, Ill., assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill., a corporation of Delaware
Application February 21, 1947, Serial No. 730,004
5 Claims. (Cl. 56—26)



5. A power lawn mower having a main frame, ground-engaging driving wheels, a grass-cutting element, and a light, high-speed motor on the frame, driving connections between the motor and the driving wheels and the cutting element, the motor being of such limited power that while it is able to propel the lawn mower and operate the grass-cutting element under ordinary working conditions, it will not carry an overload, and means for automatically causing slippage between the motor shaft and the grass-cutting element and between the motor shaft and the driving wheels.

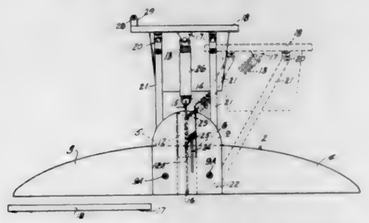
2,529,015
LIQUID CONTENTS GAUGE
Paul Goudime-Levkovitsch, Chertsey, and Stanley James Smith, London, England, assignors to West Road Co. Limited
Application January 22, 1946, Serial No. 642,714
In Great Britain February 7, 1945
2 Claims. (Cl. 175—41.5)

1. A measuring condenser for use in a liquid contents gauge for continuous indication of the level of liquid in a container, the liquid serving as the condenser dielectric, said condenser comprising a pair of elongated, laterally flexible conductors, one of said conductors being tubular and embracing the other of said conductors, and insulating thimbles lying between and connecting said conductors in predetermined spaced relation, each thimble having within its structure and intermediate the conductors a plurality of openings affording free flow of liquid lengthwise of and between said conductors, and being formed to provide cooperating ball and socket joints between adjacent thimbles, whereby said condenser in its entirety may flex laterally to conform to the contour of the container in which it is introduced.

2,529,016
ACID FADING INHIBITION USING N-BENZYLATED AMINO-TRIAZOLES AND -TETRAZOLES
Harry W. Grimmel, Riegelsville, Pa., and Jack F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 10, 1947, Serial No. 753,810
9 Claims. (Cl. 8—61)

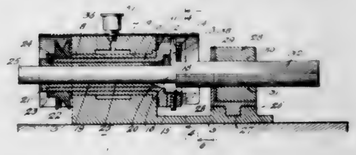
1. The process for increasing the resistance to acid fading of colorations on textile material comprising an organic derivative of cellulose, which comprises incorporating in such material a water insoluble, solid, colorless N-benzylated derivative of a compound of the class consisting of 3-amino-1,2,4-triazole and 5-amino-tetrazole.

2,529,017
AMUSEMENT AND EXERCISING APPARATUS
Thomas A. Hall, Hillsdale, Oreg.
Application June 1, 1948, Serial No. 30,378
2 Claims. (Cl. 155—61)



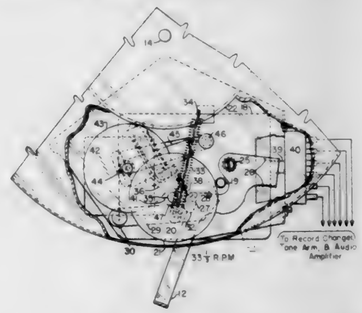
1. Amusement and exercising apparatus comprising a base, parallel columns pivotally attached at their lower ends to said base and extending upwardly therefrom, a frame pivotally attached to the upper ends of said columns for to and fro motion with respect to the base, a seat carried by the frame, springs attached at their upper ends to said frame and at their opposite ends to flexible elements extending into the base through lateral spaces formed therein, and means slidably mounted for vertical adjustment within the base for forming adjustable bending points for said flexible elements within said spaces intermediate the ends of the flexible elements to vary the tension on said springs.

2,529,018
DOWEL MAKING MACHINE
William P. Hancharik, Upper Black Eddy, Pa.
Application September 8, 1945, Serial No. 615,188
2 Claims. (Cl. 142—54)



1. A wood-working device comprising a base having a journal member, a tool support including a tubular shank journaled in said member, means for securing a cutter in one end of the tool support, a drive member attached to the other end of the tool support, and a tubular guide secured in the shank and adapted for holding one end of the work, transverse guide rails on the base and a second guide having aligned gauge openings therein of different sizes for receiving the other end of work of different sizes, said second guide being slidably adjustable on said rails transversely of the axis of said tubular guide to position work of different sizes in axial alignment with said tubular guide.

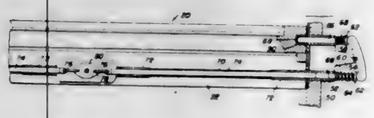
2,529,019
TWO-SPEED TURNTABLE DRIVE
Maurice E. Hardy, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application February 25, 1949, Serial No. 78,385
6 Claims. (Cl. 74—190)



1. A record player comprising: a rotatable turntable having first and second annular driven surfaces of different diameters; a driving motor; a gear system intermediate said motor and said driven surfaces and including an idler gear in

the plane of the first one of said driven surfaces as well as a pair of coaxial displaceable gears, one of said displaceable gears being in the plane of said idler gear and the other being in the plane of the second one of said driven surfaces; and a control member mechanically coupled to said displaceable gears for selectively positioning said gears in a first position, wherein said one gear mechanically connects said motor to said first driven surface through said idler gear, and in a second position wherein said other gear mechanically connects said motor to said second driven surface.

2,529,020
LATCH FOR WINDOWS
Henry L. Hawkins, Sr., Gladys, Va., assignor of twenty per cent to Henry L. Hawkins, Jr., and twenty per cent to Richard L. Hawkins, both of Campbell, Va.
Application February 11, 1948, Serial No. 7,572
5 Claims. (Cl. 292—33)

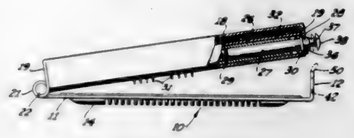


1. A latch for a window construction comprising a pair of sashes having side portions and a window frame, including frame side rails having opposing and vertically spaced recesses in each side rail, a pair of tubes in each of said recesses arranged transversely of the sashes and spaced to register with the sashes, a pair of plungers in said tubes, a rocker arm mounted in said recess to engage corresponding ends of said plungers, springs arranged to bias said plungers into nonengaging positions with respect to said side portions, sockets in said sash side portions to receive terminal portions of one of each pair of plungers, and means carried by one of said sashes for actuating the other of said plungers and the rocker arm associated therewith to shift said one of each pair of plungers into engaging position relative to said side portions.

2,529,021
CHECK PROTECTOR
Richard I. Heller, Los Angeles, Calif.
Application October 4, 1946, Serial No. 701,313
3 Claims. (Cl. 101—24)

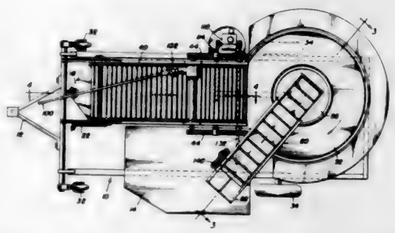
1. A check protector comprising a base, a shaft including eccentric ends mounted on said base, means to rotate said eccentric ends to change the spacing of said shaft relative to said base, a rotatable check marker on said shaft adapted to contact and mark an underlying check with said shaft in its operative position, and means to retain said shaft in said operative position against accidental displacement comprising a flattened surface on said shaft and a leaf spring mounted on said base and adapted to seat in frictional retaining contact with said flattened surface.

2,529,022
CHECK PROTECTOR
Richard I. Heller, Los Angeles, Calif.
Application October 4, 1946, Serial No. 701,314
3 Claims. (Cl. 101—24)



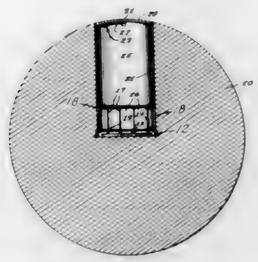
1. A check protector comprising a base, rotatable check marking means, means mounting said marking means for pivotal movement on said base about an axis at right angles to the axis of rotation of said rotary means, a spring pressed detent movable with said marking means and including an extended seating portion, a reduced neck, and a force receiving head, a wall on said base formed with a slot opening into a larger detent seat, said wall extending adjacent the movable end of said marking means, characterized in that the extended seating portion of said detent is adapted to seat within said detent seat with said marking means in operative position and in that the application of a force upon said head displaces said seating portion from said seat and enables said reduced neck to traverse said slot in the pivotal movement of said marking means to inoperative position.

2,529,023
POTATO DIGGING AND SEPARATING MACHINE
Warren V. Helms, La Jara, Colo.
Application October 29, 1948, Serial No. 57,203
4 Claims. (Cl. 55—9)



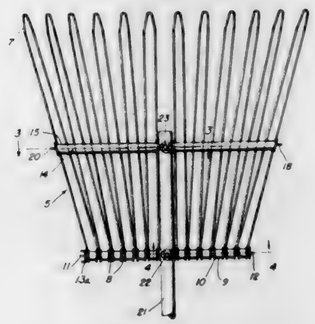
1. In a potato digging and sacking machine, a chassis, a digger, means adjustably mounting said digger at the forward end of said chassis, a conveyor disposed behind said digger having a portion thereof carried by said digger for adjustment therewith, a rotary platform carried by said chassis adapted to receive potatoes from said conveyor, for manual separation from debris, an elevator disposed adjacent said platform to raise potatoes for reception in sacks, said elevator having one end disposed adjacent the center of said rotating platform and a funnel disposed adjacent said end for guiding potatoes on said elevator, a bench secured to said chassis to seat individuals for potato debris separation, and a baffle carried by said chassis disposed over said rotary platform to sweep debris from said platform.

2,529,024
TIP-DELIVERING BOWLING BALL
Carmen D. Jones, Arlington, Va.
Application January 27, 1948, Serial No. 4,640
1 Claim. (Cl. 232—1)



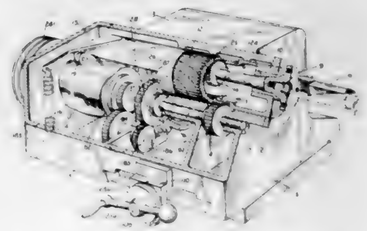
The combination with a bowling ball having a cylindrical pocket extending inwardly from a peripheral surface thereof, the bounding ball of said pocket contiguous to its terminating end being flared to provide an annular seat, of a coin delivering container embracingly received and supported within said pocket, said container having an open bottom and a top and being provided with a plurality of longitudinally extending circumferentially spaced slots extending from the open bottom thereof, the portions of said sleeve intermediate said slots being bent outwardly to form a plurality of fingers for frictional engagement with the bounding wall of said pocket, and the free ends of each of said fingers being bent arcuately outwardly to form ribs for frictional engagement within said annular seat.

2,529,025
LAWN RAKE
Charles H. Kaufman, San Antonio, Tex.
Application August 12, 1948, Serial No. 43,885
4 Claims. (Cl. 56—400.17)



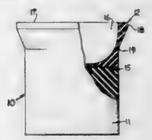
3. A lawn rake head comprising a plurality of substantially U-shaped resilient wire tines, eyes at the inner ends of the tines, a transversely extending tie member inserted through the eyes, spacing sleeves on said tie member between the eyes, and a brace for the intermediate portion of the tines and comprising spacing sleeves between adjacent legs of the tines and positioned in abutting end to end relation with respect to each other, said last named spacing sleeves having grooves in their ends in which the tines are seated, and a tie member inserted through said last-named spacing sleeves.

2,529,026
APPARATUS FOR PROFILING OPERATIONS
Thomas Aubrey Kestell, Thurmaston, England, assignor to Power Jets (Research & Development) Limited, London, England
Application August 21, 1945, Serial No. 611,853
In Great Britain January 27, 1944
9 Claims. (Cl. 51—101)



2. In a profiling machine for forming a three dimensional profile, a tool support, a workshaft borne for rotation in a journal located within and disposed eccentrically with respect to a housing which is itself mounted for rocking about an axis other than the workshaft axis, means for rocking said housing comprising a three dimensional cam mounted for rotation together with said workshaft and a cam follower mounted on said housing, and means for moving said housing longitudinally relative to said cam and tool support whereby the cam follower is moved circumferentially and axially over the cam surface and the amplitude of the rocking movement of the housing is automatically varied in accordance with circumferential and axial variations in the profile of said surface.

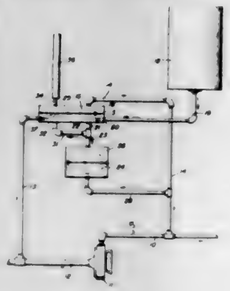
2,529,027
CORE EXTRACTOR
Charles Lamb, South Pasadena, Calif., assignor to Zelam Rubber Cement Plug Co., Los Angeles, Calif., a partnership
Application November 12, 1946, Serial No. 709,320
3 Claims. (Cl. 255—1.4)



1. A core extractor plug of rubber composition adapted to be inserted in a core barrel for the removal, exclusively under fluid pressure, of an earth core therein and comprising a rubber cylindrical leading end adapted to engage said earth core and a rubber trailing end of substantially cup-shaped configuration coaxially and integrally bonded to said cylindrical leading end, said cylindrical leading end comprising rubber and thermo-setting phenol formaldehyde resin and being harder for resisting compression when engaged with said earth core than said cup-shaped end, the latter having lips engageable with the inner walls of the core barrel under the influence of fluid pressure for making a fluid-tight seal with said core barrel wall, said cup-shaped

end comprising rubber and a lesser proportionate amount of thermo-setting phenol formaldehyde resin than said cylindrical end.

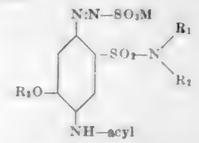
2,529,028
CHEMICAL FEEDER
Everett W. Landon, San Mateo, Calif., assignor to Landon Standard Pools, Belmont, Calif., a corporation of California
Application July 31, 1947, Serial No. 765,174
2 Claims. (Cl. 210—40)



1. In combination with a water supply conduit, a chemical feeder comprising a primary valve chamber having a transverse diaphragm valve therein, a secondary valve chamber having a transverse diaphragm valve therein, a chemical transfer chamber and a transverse diaphragm therein, a liquid chemical supply tank connected to the bottom of the primary valve chamber, a connection between the top of said transfer chamber and said primary and secondary chambers below the respective diaphragm valves thereof, an intermittently actuated pump in said water supply conduit, said conduit at the outlet side of said pump being connected to the bottom of said transfer chamber and to the top of the primary chamber whereby in the absence of water pressure in said conduit chemical may flow through the valve of the primary chamber into the top of the transfer chamber, pressure responsive means for closing the valve of the secondary chamber in the absence of water pressure to prevent chemical passing through the valve of the primary chamber from entering the secondary chamber, and a connection between the secondary chamber and said conduit at the inlet side of said pump, whereby water pressure in the conduit may close the valve in the primary chamber and discharge chemical from the transfer chamber through the valve of the secondary chamber and through the last mentioned connection into said conduit.

2,529,029
DIAZOTYPES CONTAINING DIAZO-SULFONATES
Robert Lantz and Marie Moinard, nee Marie Colomb, Paris, France, assignors to Societe Anonyme de Matieres Colorantes et Produits Chimiques Francolor, Paris, France, a French company
No Drawing. Application July 24, 1948, Serial No. 40,638. In France April 24, 1946
3 Claims. (Cl. 95—6)

1. A light-sensitive layer which gives on exposure to light a purple image suitable for subtractive three-colour photography and containing a mixture of an arylide of 2-hydroxy-3-naphthoic acid and a diazo-sulphonate having the general formula



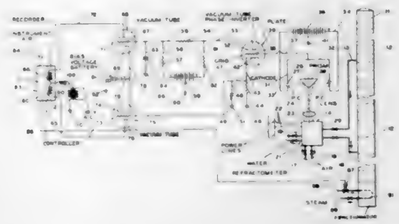
wherein

R_1, R_2 and R_3 each represents an alkyl group,

Acyl represents the residue of a carboxylic acid and

M represents an equivalent of a metal conferring solubility in water.

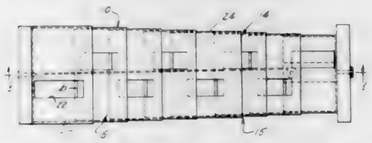
2,529,030
DISTILLATION CONTROL BY REFRACTIVE INDEX
John W. Latchum, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 25, 1946, Serial No. 664,773
3 Claims. (Cl. 202—40)



1. A method for controlling the continuous fractional distillation of a plurality of close boiling liquids having substantially different indices of refraction for the separation of the lowest boiling of said liquids which comprises the steps of continuously withdrawing a quantity of liquid from a predetermined region of a fractionating tower in which the distillation of said liquids is carried out, passing a beam of light through the withdrawn liquid to cause bending of the beam by refraction, which bending is proportional to the index of refraction of said withdrawn liquid, focusing the refracted beam to produce an illuminated zone and a dark zone, producing an electrical voltage representative of the light intensity in one of said zones, producing an electrical voltage representative of the light intensity in a region including a portion of each zone, said last-mentioned voltage varying in accordance with the index of refraction of the withdrawn liquid, electrically comparing said voltages to produce a resultant voltage, and controlling the heat supplied to the fractionating tower in response to the magnitude of said resultant voltage.

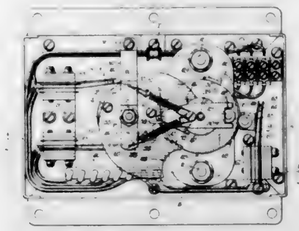
2,529,031
BOOK END
Theodore K. Lewis, Wauneta, Nebr.
Application August 19, 1947, Serial No. 769,475
1 Claim. (Cl. 211—43)

A spring pressed telescoping book rack comprising a pair of vertical end members, confronting, transverse, inverted U-shaped bottom forming members on each of said end members, a plurality of intermediate, inverted U-shaped bottom forming members between said first named bottom forming members, each of said members formed with a longitudinally extending slot in the bight portion thereof, a connecting member carried by each of said bottom forming members



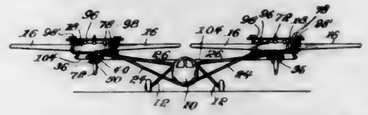
slidably engaged in the slot of an adjacent member, each of said intermediate members being slidably engageable within the adjacent member and spring means connected between said end members biasing said end members together and said rack to a closed telescopic position.

2,529,032
ELECTRIC SWITCH
Sigurd I. Lindell, Chicago, Ill., assignor to S & C Electric Company, a corporation of Delaware
Application April 6, 1945, Serial No. 586,850
6 Claims. (Cl. 318—15)



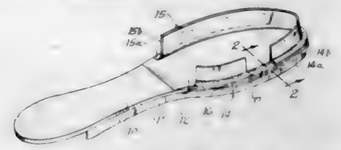
1. An operating mechanism for a device, such as a switch, having a member to be moved from one position to another comprising, in combination, a reversible driving motor, an operating disc loose on the motor shaft, an operating arm fixed on the motor shaft and having a notch in one end thereof, a driving stud carried by the operating disc and extending into said notch for lost motion driving connection between said arm and said disc, a key disc mounted to turn about an axis parallel with and spaced laterally of the axis of the motor shaft, a roller on said driving stud, said key disc having a slot which said roller is adapted to enter and leave with maximum mechanical advantage to turn the key disc, and a drive connection between said key disc and said movable member for moving said movable member from one position to another.

2,529,033
MULTIROTOR HELICOPTER
Darrell B. Linville, Brentwood, Calif.
Application August 30, 1945, Serial No. 613,586
1 Claim. (Cl. 244—17.23)



In a helicopter, comprising a fuselage, a pair of lifting rotors mounted on the fuselage at the opposite sides of the plane of symmetry thereof, each rotor comprising an annular hub, oppositely disposed airfoils rigidly mounted on each hub radially thereof, a pair of horizontally disposed circular frames, supports fixed to the fuselage on opposite sides thereof and to each frame for supporting said frames on opposite sides of the fuselage in fixed relation to said fuselage, an engine within and carried by each frame, gear teeth on the lower periphery of each hub, gear means operatively connecting the gear teeth on each hub with each engine whereby said engines are adapted to rotate said rotors and each engine can be regulated as to speed so that the engines will rotate in synchronism and in reverse direction, a pair of semi-circular tracks disposed above each hub in opposed relation to each other and in parallel relation to each hub, the ends of the track being in overlapping relation to each other, a pivoted flap mounted at the trailing edge of each of said airfoils, linkage means connected to each of said flaps, each linkage means including a roller engageable with said tracks, and means connected to said tracks for causing said tracks to be moved into or out of operative engagement with said rollers.

2,529,034
INSOLE
Henry Lipton, Chicago, Ill., assignor to J. P. Smith Shoe Company, Chicago, Ill., a corporation of Illinois
Application June 22, 1949, Serial No. 100,580
2 Claims. (Cl. 36—22)

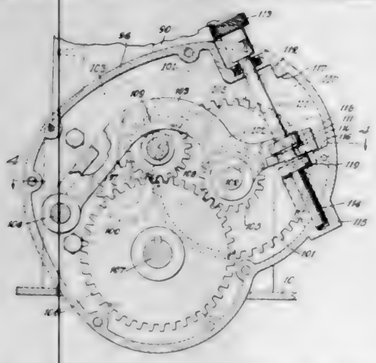


1. A flexible sole piece for an insole provided with a lip strip having a flange contacting the lower surface of the sole piece along the margin thereof and provided with a downwardly extending body spaced inwardly from the edge of the sole piece, and a second lip strip provided with a flange disposed on the upper side of the sole piece along the edge thereof, said flanges being secured to the sole piece by a line of stitches common to the flanges, said second lip strip having a body portion extending from the inner edge of the respective flange and extending outwardly over the latter and downwardly over the edge of the sole piece and inwardly and again downwardly into parallelism and contact with the body of the other strip to provide a sewing lip of double thickness.

2,529,035
FORWARD AND REVERSE GEARING FOR LAWN MOWERS
Peter L. Loewe and Eugene L. Boyce, Chicago, Ill., assignors, by mesne assignments, to Pioneer Gen-E-Motor Corporation, Chicago, Ill., a corporation of Delaware
Original application April 8, 1944, Serial No. 530,102. Divided and this application October 27, 1944, Serial No. 560,574
3 Claims. (Cl. 74—355)

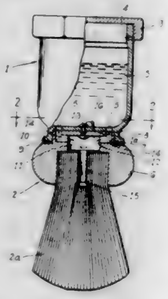
1. A reversible drive for lawn mowers and the like, including a motor, a unidirectional motor driven gear, a reversibly driven gear, intermediate gears rotatable in unison about a common movable axis, an idler gear rotatable about a fixed

axis and constantly in mesh with the reversibly driven gear, one of said intermediate gears being in constant mesh with said motor driven gear, and another of said intermediate gears constituting a reversing gear rotatable about said movable axis and constituting an element in the line of drive between said motor driven gear and



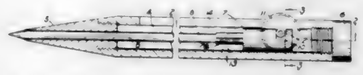
said reversibly driven gear, means for normally holding the reversing gear in mesh with the reversibly driven gear, and for selectively moving it bodily in its own plane of rotation out of mesh with said reversibly driven gear and into mesh with said idler gear, including readily manually operable actuating means for moving said reversing gear through its range of possible movement.

2,529,036
RESERVOIR-HANDLED, MEASURED-FEED FOUNTAIN SHAVING BRUSH
Joseph A. Loewinsohn, Atlanta, Ga.
Application April 23, 1948, Serial No. 22,823
2 Claims. (Cl. 15—138)



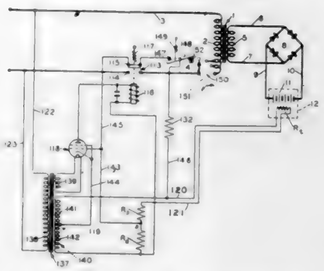
1. A fountain shaving brush comprising a hollow handle providing a receptacle for containing a supply of liquid soap, a brush head rotatably associated with the handle and shaving bristles extending from one end thereof, openings in the receptacle and the brush head adapted to be brought into and out of registering positions by rotative movement of the handle, a soap chamber in the brush head below the receptacle, said soap receptacle being normally closed against atmospheric pressure, an air vent in the wall of said soap receptable, a cap for closing an end of the handle arranged to be moved into and out of covering relation with said vent, and a tubular discharge orifice providing communication between the soap chamber and the bristles, said soap chamber being of enlarged size relative to the discharge orifice so as to maintain the orifice completely filled with soap throughout a shaving operation.

2,529,037
PROJECTABLE AND RETRACTABLE WRITING IMPLEMENT
Stephen Arnold Marples, Parkstone, England, assignor to R. M. Marples and Son Limited, Parkstone, England
Application June 25, 1947, Serial No. 756,871
In Great Britain June 28, 1946
9 Claims. (Cl. 120—19)



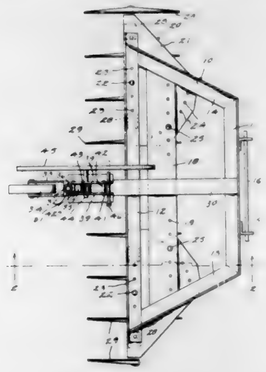
1. A writing implement comprising a hollow body portion or barrel, a slide member movable axially within said hollow body portion or barrel to propel a lead or other element, a wheel for actuating said slide member and preferably having a toothed, milled or roughened periphery, a part of which engages the inner surface of said hollow body portion or barrel and a part of which projects through a slot formed longitudinally in the wall of said hollow body portion or barrel to permit actuation of said wheel.

2,529,038
MAXIMUM TEMPERATURE CUTOFF SYSTEM FOR BATTERY CHARGERS
Lewis A. Medlar, Oreland, and James B. Godshalk, Philadelphia, Pa., assignors, by mesne assignments, to Sterlingworth Company, Philadelphia, Pa., a corporation of Delaware
Application April 14, 1949, Serial No. 87,494
11 Claims. (Cl. 320—36)



10. In a fast charger the combination of, a charging circuit adapted to convert alternating current to direct current and supply said direct current to a battery; a relay having contacts in said charging circuit; a transformer including a primary winding bridged across an alternating current portion of said charging circuit; a Wheatstone bridge supplied with alternating current by said transformer, said bridge including in one arm an impedance of predetermined value and in the arm balancing said one arm a thermally responsive impedance adapted to be maintained in close heat transfer relation and electrical contact with the electrolyte of the battery being charged by said charging circuit, whereby said bridge is unbalanced in a definite sense whenever the temperature of said electrolyte, as sensed by said thermally responsive impedance, is below a predetermined value and is rebalanced when the temperature of said electrolyte reaches said predetermined value during charging, and electrical means responsive to the output of said bridge for causing said contacts of said relay to be closed, completing said charging circuit, only while said bridge is unbalanced in said definite sense and to be opened when said bridge is substantially balanced.

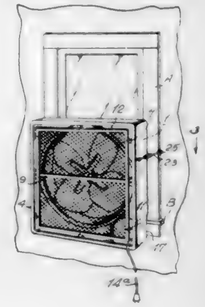
2,529,039
DITCH FILLER
Alvin L. Meyer, Fairfield, Mont.
Application January 5, 1948, Serial No. 629
1 Claim. (Cl. 55—73)



An earthworking machine comprising a horizontally disposed frame including a transversely extending plate adjacent the rear end thereof, a plurality of transversely spaced apart openings formed in said plate along the rear edge and adjacent each of the opposite ends thereof, a plurality of openings formed along the forward edge of said plate adjacent the opposite ends thereof and spaced the same distance apart as said first mentioned openings, a swingable plate disposed below each end of said transversely extending plate, pivot means extending through selected ones of said first openings and said swingable plates for mounting the latter upon said frame, each of said swingable plates being provided with a plurality of spaced arcuately arranged openings therethrough disposed equi-distant from said pivot means, locking means engaging through said selected ones of said openings formed along the forward edge of said transverse plate and said arcuately arranged openings for maintaining said swingable plates in selected angular disposition relative to said frame, a shaft journalled below each of said swingable plates, and a plurality of disc members disposed on each of said shafts whereby said disc members may be adjusted outwardly, inwardly, and angularly relative to said frame.

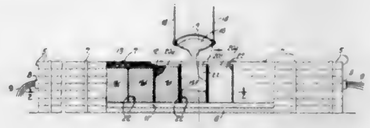
2,529,040
VENTILATING FAN FOR WINDOWS
Hackley Morrison, Houston, Tex., assignor, by mesne assignments, to Hackley Morrison, Jr.
Application August 3, 1945, Serial No. 608,772
3 Claims. (Cl. 98—94)

1. A window fan comprising a rectangular frame, a fan centrally mounted in said frame and having a diameter greater than the distance between the window sill and lower edge of the bottom sash when fully open, but no greater than the width of the window opening and means for supporting said frame on the window sill in such position that the blade circle overlaps said sill



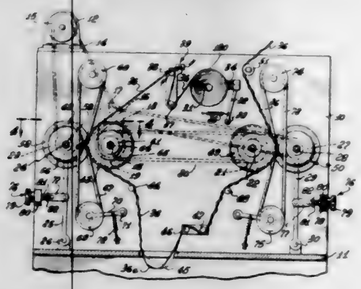
and the lower edge of said sash to substantially the same extent.

2,529,041
METHOD OF ARTIFICIALLY PRODUCING CARBONACEOUS COMPOSITION PIECES
Paul Müller, Sierre, Switzerland, assignor to Societe Anonyme pour l'Industrie de l'Aluminium, Chippis, Switzerland, a joint-stock company of Switzerland
Application December 16, 1946, Serial No. 716,668
5 Claims. (Cl. 18—54.7)



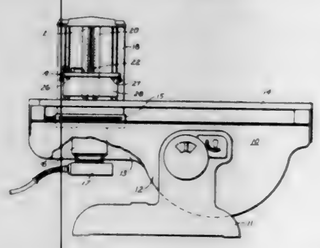
1. The method of producing baked carbonaceous articles, such as electrodes for metallurgical furnaces, carried out with the aid of molds open at top and bottom in an electric-resistance baking furnace in which heat is generated by electric current passing through an interior body of carbonaceous filling powder which is of high-resistance conductivity; said method comprising placing a bottom layer of the filling powder on the sole of such a furnace, and, for each article to be produced, setting upright such a mold upon such bottom layer; then filling the interspaces between each mold and the furnace lateral walls with the filling powder; then charging into the mold a raw carbonaceous mass, composed substantially of a finely divided carbon material premixed with a binder material, adapted when warm to become pasty and take the required form in the mold; then extracting upwardly the mold leaving the unbaked molded mass or article supported below and laterally by the filling powder, then completing the surrounding of the molded article by applying upon the article an enclosing protective top covering, and then, while retaining the formed and embedded article in its unchanged molding position in the furnace, subjecting it to an elevated baking temperature at least until the hardening of the article by passing an electric current through the filling powder within the furnace, such current passing progressively also through the hot carbonaceous article itself in the course of the baking.

2,529,042
APPARATUS FOR FRAYING STRIP FABRICS
Thomas G. Nanson, Los Angeles, Calif.
Application September 30, 1949, Serial No. 118,899
20 Claims. (Cl. 28—18)



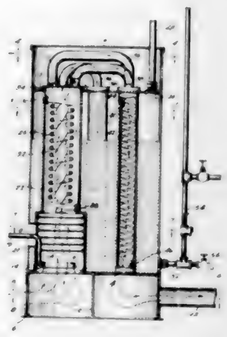
1. Apparatus for fraying the edge of a woven fabric strip having oppositely biased threads, comprising a support engaged by one surface of the strip adjacent said edge, means exerting a thread fraying force against the opposite surface of the strip locally in proximity to said edge, and means for producing relative movement of said means and strip longitudinally of the strip, said force exerting means acting to laterally deflect and free the end extents of the fabric threads adjacent said edge out of woven relation while retaining the woven condition of the threads inwardly of the strip.

2,529,043
X-RAY APPARATUS
Herbert A. Newman, Delavan, Wis., assignor to The George W. Borg Corporation, Delavan, Wis., a corporation of Delaware
Application May 11, 1949, Serial No. 92,609
2 Claims. (Cl. 250—59)



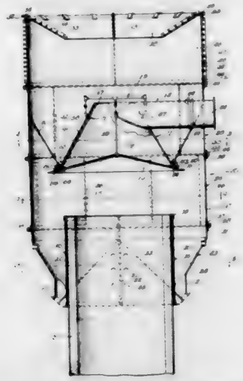
1. In combination, an X-ray table comprising side members and a top supported thereon, a carriage supported on said side members beneath said top and movable lengthwise of the table, an X-ray tube supported on said carriage beneath said top and at a predetermined distance therefrom, a tower supported on said carriage at the rear of said table and extending vertically upward above the top thereof, a spot film device supported on said tower above the table top, means for adjusting said spot film device up or down to engage the body of a patient lying on said table, an indicator connected to said spot film device to move therewith, a member supported on said tower and carrying a fixed scale arranged to co-operate with said indicator throughout the range of movement thereof, a generally central division mark on said scale opposite which said indicator is disposed when said spot film device is adjusted to a patient of average body thickness, the position of said division mark being so related to the sum of average body thickness and the distance between the X-ray tube and table top that when the indicator is opposite said division mark it indicates a predetermined average kilo-voltage which is standard for that conditon, a plurality of other division marks on said scale extending above and below said central division mark, and numerals associated with said other division marks, said numerals having selected values such that when the indicator is opposite any one of said other division marks the associated numeral will show the number of kilovolts to be added to or subtracted from said standard kilo-voltage.

2,529,044
STEAM BOILER
John H. Oberholtzer, Harrisburg, Pa.
Application October 30, 1946, Serial No. 706,609
2 Claims. (Cl. 122—182)



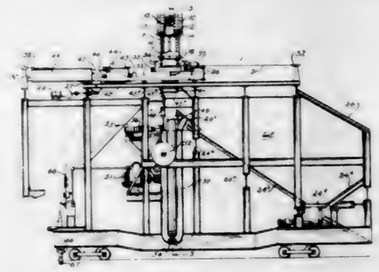
1. In a steam boiler, a base provided with an opening for the egress therethrough of air, a casing supported on said base, a conduit connected to said casing for conveying water from a source of supply thereto, pipe means connected to said casing for the egress therethrough of steam, a housing positioned within said casing and arranged in communication with said base, a gas burner supported within said housing and connected to a source of gas supply, a plurality of horizontally-disposed apertured baffles arranged in spaced parallel relation above said gas burner and supported in said housing, a vertically-disposed tube positioned in said casing and in communication with said housing for the egress therethrough of the products of combustion from said burner, a coil disposed in said tube and having its ends in communication with the interior of said casing for the circulation therethrough of water, a baffle positioned in said tube for distributing the products of combustion over said coil, a plurality of pipes each having one end communicating with the upper end of said tube for conveying products of combustion from the latter, a plurality of vertically-disposed shells positioned within said casing and supported on said base, the upper end of each of said shells being connected to one of said pipes, and a pipe operatively connected to the lower end of said shells for conveying products of combustion from the latter to a stack.

2,529,045
APPARATUS FOR CLEANING STACK GAS
Raymond C. Ortgies, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application February 3, 1947, Serial No. 726,103
6 Claims. (Cl. 261—16)



1. An apparatus of the character described comprising a vertically elongated casing in the form of an upstanding conduit adapted to have dust laden gas flow upwards therethrough, and a continuous side wall of materially greater maximum width than the conduit, having the lower end thereof extending around the conduit, connected to the latter at a point beneath the upper end thereof and provided with a discharge for collected matter, and having its upper end provided with a main outlet, an inverted cup shaped member disposed within the central portion of the casing side wall and above, and in alignment with, the conduit and embodying a circular top wall and a frusto-conical side wall depending from the top wall and defining therewith a downwardly flared open bottom air chamber, a duct extending into the casing, having the inner end thereof leading through the upper end of, and extending tangentially with respect to, the side wall of said member and its outer end adapted for connection with a source of clean air under pressure, and serving to introduce the clean air under pressure into the air chamber so that it is caused by the member side wall to swirl downwards and outwards in convolutions of progressively increasing size in a downward direction and thence flow downwards and outwards past the open bottom of the air chamber, a circular horizontally disposed deflector plate positioned between, and in spaced relation with, the lower end of side wall of the member and the upper end of the conduit and adapted to cause the dust laden gas emanating from said conduit and the swirling clean air under pressure emanating from said open bottom of the air chamber to be deflected outwards against the casing side wall in such manner that they mix together and the heavier dust particles are precipitated and fall by gravity to the lower end of the casing side wall from whence they are discharged via the aforementioned discharge, and an annular series of vertical angularly positioned vanes extending between the margin of the deflector plate and the lower end of the side wall of the member and arranged so as to augment swirling of the clean air under pressure as it flows outwards from the deflector plate preparatory to mixing with the dust laden gas.

2,529,046
DISCHARGE MEANS FOR COKE OVENS
Grady Padgett, Beaver, Pa.
Application June 18, 1946, Serial No. 677,557
18 Claims. (Cl. 214—18)



11. A coke discharge car for withdrawing coke from a coke oven of the character described, said car having a coke-receiving compartment, and carrying means elevatable into position supporting the coke discharge door, means for unlatching said door while supported by said first-mentioned means, said first-mentioned means being then lowerable to lower said unlatched door and a portion of the coke from within the oven at controlled speeds, means for swinging said door out of the path of movement of the discharging coke, and means for guiding the discharging coke into said coke-receiving compartment, said coke car also carrying a dust-enclosing housing movable into position surrounding the discharge opening of the oven and the lowering door during the discharge operation.

2,529,047
TOY REPEATING ELASTIC BAND GUN
Robert Paul, Buffalo, N. Y.
Application July 2, 1948, Serial No. 36,735
7 Claims. (Cl. 124—19)

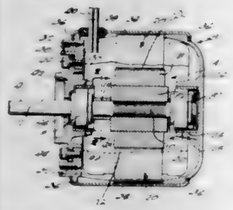
1. Releasing means for elastic bands on a toy rifle comprising a grip adapted to be slidably mounted on a shoulder equipped breech of said rifle, said grip having a plurality of successively functioning band tripping and releasing cams, said cams being arranged in opposed, longitudinally spaced pairs and the spacing between the successive pairs of cams being different.

2,529,048
ONE-PIECE TONGUELESS BUCKLE
Benjamin F. Pease, Jr., Grafton, Mass.
Application March 12, 1949, Serial No. 81,163
1 Claim. (Cl. 24—176)

A one-piece buckle comprising an open rectangular frame member having a relatively broad and flat end member, relatively narrow and elongated integral side members, spaced belt-engaging lugs mounted at the inner faces of the free ends of said side members and directed toward

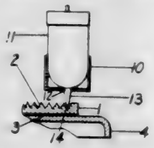
each other, a spur fixed at the inner edge of said end member and directed transversely rearward of said frame member and in a line substantially perpendicular to the line of normal belt strain, and a buckle-tensioning spring having coiled ends mounted on and secured to said inwardly-directed lugs and having a connecting and generally U-shaped loop engaging a belt portion and tensioning said spring to project said spur into an aligned belt opening.

2,529,049
METHOD OF MAGNETIZING PERMANENT MAGNET ROTORS
Saul H. Ross, Oceanside, N. Y., assignor to Eastern Air Devices, Inc., Brooklyn, N. Y., a corporation of New York
Application September 14, 1949, Serial No. 115,740
6 Claims. (Cl. 171—209)



1. The method of magnetizing permanent magnet rotors which comprises placing a rotor within a rotating magnetic field, rotating said rotor synchronously with said field, and intermittently and at random suddenly collapsing and then restoring said magnetic field a plurality of times while said rotor is rotating synchronously times while said rotor is rotating synchronously, thus ensuring accurate alignment between the poles of said rotating field and the poles induced in said rotor.

2,529,050
OPTICAL SOUND REPRODUCING SYSTEM
Jack R. Sanders, New York, N. Y.
Application August 28, 1946, Serial No. 693,501
1 Claim. (Cl. 179—100.3)



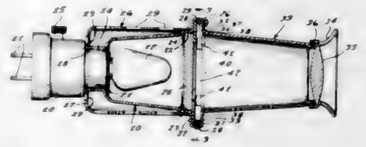
Apparatus for reproducing sound comprising a rotatable record of transparent material carrying a photographic sound track, a groove cut in a surface of the record and in register with the sound track, a source of light, a member of transparent material engaged in and moved by the groove and disposed to receive light from the source and direct the same into the groove and upon the sound track, and means to receive for conversion into sound the light affected by the sound track.

2,529,051
AUXILIARY TABLE TOP
Edward A. Sherman, Washington, D. C.
Application March 21, 1947, Serial No. 736,327
2 Claims. (Cl. 311—106)

1. In combination, an extensible table and a removable enlarged table top therefor, said removable top consisting of two substantially duplicate halves, each comprising a main body portion constituting the enlarged table top and an elongated rigid anchoring strip integral along its length with the underside of said body portion and adjacent one edge thereof, said strips entering between and abutting the separable edges of said extensible table top, resilient gripping means carried by the underside of the anchoring strip

for engaging the lower face of the extensible table top and for holding the removable table top in temporary but firm assembly therewith, each of said anchoring strips having a groove substantially coextensive with it for receiving dowel pins projecting from said extensible table, and one of said removable top halves having dowel pins extending from the edge adjacent said strip, the other half having suitable sockets for receiving said pins along its corresponding edge.

2,529,052
PHOTOGRAPHIC SLIDE VIEWER AND PROJECTOR
Perley A. Sherwood, Camden, N. J.
Application November 28, 1947, Serial No. 788,472
5 Claims. (Cl. 40—130)

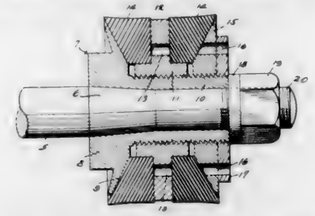


1. In a photographic slide viewer, the combination with an electric light socket, a diffusing glass, a masking plate, and a viewing lens housing; of a hollow and substantially cylindrical light housing, means mounting said light-housing concentrically on said socket with the forward end of said light-housing extending forwardly thereof, a forward end portion of said light-housing being radially outwardly-offset to provide an annular shoulder adapted to seat said diffusing glass, a further forward end portion of said light-housing being radially outwardly offset to provide a substantially rectangular shoulder and end flange adapted to receive said masking plate, said end flange being formed to provide an aperture therethrough, said masking plate being formed with a laterally-directed lug insertable through said aperture to secure one side of said masking plate against said second shoulder, said end flange including means for mounting said viewing lens housing therein in outwardly-spaced relation to said masking plate to provide a slideway therebetween, and detachable means carried by said light-housing for securing an opposite side of said plate and said viewing lens housing to said end flange.

2,529,053
PISTON CONSTRUCTION
Leo E. Simmons, Shreveport, La.
Application May 10, 1948, Serial No. 26,023
1 Claim. (Cl. 309—4)

An adjustable slush pump piston, comprising a piston hub adapted to be positioned on a pump rod, the inner surface of the hub being beveled,

a threaded extension forming a part of the hub, a thrust ring adjustably mounted on the threaded extension and having right angled surfaces providing packing ring seats, inner and outer packing rings mounted on the packing ring seats, the inner packing ring having a beveled surface contacting with the beveled surface of the hub, said outer packing ring having a beveled surface, an outer



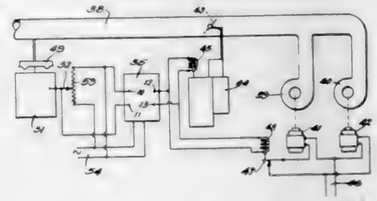
adjusting ring mounted on the threaded extension, said adjusting ring having a beveled surface engaging the outer beveled surface of the outer packing ring, said thrust ring and adjusting ring adapted to move the packing rings outwardly adjusting the packing rings, and means for securing the adjusting ring in its positions of adjustment.

2,529,054
X-RAY APPARATUS
Harold A. Smith, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application December 11, 1946, Serial No. 715,406
6 Claims. (Cl. 250—64)

1. In an X-ray apparatus, a table, means supporting an X-ray tube for movement to various adjusted positions above said table, a Bucky diaphragm and means supporting it for movement to corresponding positions beneath said table, and means for aligning said diaphragm with said tube comprising a target movable with said tube and an optical system movable with said diaphragm for projecting a light beam on said target, said optical system including a lamp, a lens for forming said beam from light emitted by said lamp, and means for adjusting the distance between said lens and said lamp to focus said beam on said target.

2,529,055
VOLTAGE LIMITING MEANS
Charles H. Smoot, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1948, Serial No. 59,061
12 Claims. (Cl. 171—97)

12. Voltage limiting means for an alternating current circuit comprising a pair of maximum voltage limiting devices connected across the circuit at spaced points, an alternating current source of greater amplitude than and opposite in phase to the voltage to be limited connected in the circuit between the devices, and a second alternating current source of the same amplitude as and opposite in phase to the first named source connected in the circuit at the output side of the devices, each of said devices including a pair of parallel circuits having a rectifier



and a resistor in series with the rectifiers in the pair of circuits oppositely connected, an alternating current source of the same frequency as the voltage to be measured connected across the resistors in a phase relationship such as to oppose flow of current through the pair of circuits, and rectifiers between the last named source and the resistors of opposite polarity than the rectifiers in the respective circuits.

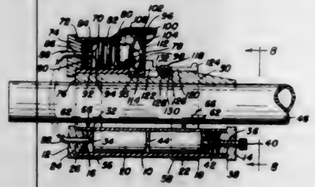
2,529,056
LINE ADJUSTER
Paul P. Sprowl, Bakersfield, Calif.
Application June 16, 1947, Serial No. 754,937
1 Claim. (Cl. 33—86)

A line adjuster comprising a pair of flat blocks having plane inner faces intersecting at right angles, each block having an opening formed therein intermediate its top and bottom edges and opening at its opposite ends upon said inner face and the outer face of the block, each opening being in parallelism with the inner face of the other block and one side edge of each opening being co-planar with said inner face of the other block; a cord extendable through said openings and of substantially less width than the width of each opening; and clamping screws threaded in the respective blocks, said screws projecting above the top edges of the blocks and extending downwardly from said top edges into communication with the respective openings.

2,529,057
ILLUMINATED GUN SIGHT
George J. Teffault, Royal Oak, Mich.
Application February 11, 1948, Serial No. 7,650
4 Claims. (Cl. 33—47)

1. An electric gun sight comprising a tubular battery holder, removable closures carried by said holder at each end, an adjustable ground bolt carried by one of said closure plugs for engaging a battery positioned in said holder, an anchor member, means for removably securing said holder beneath the lower periphery of a gun barrel and said anchor member on the upper

periphery of a gun barrel, a bulb holding chamber, a shield carried by said chamber, a notch provided in said anchor member for engaging a portion of said shield, means for lockably retaining said chamber relative to said anchor member,



said shield including a light emitting opening, means carried by said shield for removably supporting a plate opposite said light admitting opening, and reflecting means mounted in said chamber.

2,529,058
DEVICE FOR PREDETERMINING FITTING LENGTHS OF ORNAMENT STRINGS
Philip Tell, Madison, and Abraham Lehrhoff, Morristown, N. J.
Application June 25, 1947, Serial No. 756,856
10 Claims. (Cl. 33—179)

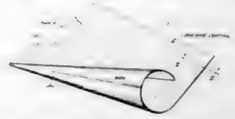
1. A measuring device for the purposes described comprising a desired number of beads of selected size, a flexible carrying strand upon which said beads are strung in successive abutting relation, a coupler means affixed to one end of the string of beads with which a selected bead of the free end portion of said string thereof may be engaged, whereby to form a circular measuring loop in said bead string, and at least a plurality of said beads which extend toward the free end of the string thereof having identifying numbers thereon corresponding to their numerical positions in the whole strung length of beads, counting from the end of the latter to which said coupler member means is affixed, whereby engagement with the coupler means of a selected numbered bead will denote the entire number of beads by which said measuring loop is formed.

2,529,059
ASSEMBLING STRUNG BEAD NECKLACES
Philip Tell, Madison, N. J.
Application October 8, 1947, Serial No. 778,580
1 Claim. (Cl. 223—48)

The method of producing a clasp equipped strung bead necklace comprising the provision of cooperative clasp elements each having at an inner end thereof an apertured hollow seating means for a terminal anchor knot of a bead stringing member, and the provision of a flexible doubled bead stringing member having two parallel courses with a stringing needle attached to the looped end of its courses and the opposite free ends of said courses being tied together to form a first terminal anchor knot, passing the stringing needle and member through one clasp element so as to seat said first terminal anchor knot in the seating means thereof, then successively stringing beads upon the stringing member which extends from said clasp element, then passing the stringing needle and member inwardly through the seating means of the other clasp

element, then cutting through the looped end of the stringing member courses to remove the stringing needle and separate said courses, then tying the resultant free end portions of said separated courses to form a first tie of a second terminal anchor knot and by tightening said first tie bringing the assembly of strung beads and clasp elements into end to end abutting relation, and again tying said free end portions of said separated courses to form a second locking tie whereby to complete said second terminal anchor knot within the seating means of said last mentioned clasp element.

2,529,060
SELF-SEALING WRAPPING MATERIAL
Bertram L. Trillich, Winnetka, Ill., assignor to The Munising Paper Company, Chicago, Ill., a corporation of Ohio
Application November 7, 1949, Serial No. 125,973
9 Claims. (Cl. 117—68.5)

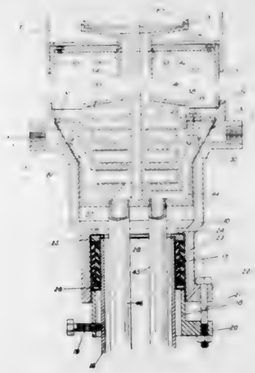


5. As a new article of manufacture, a moisture-proof sheet of self-sealing wrapping material adapted completely to encase an article and thereby seal the same against outside moisture, said article comprising a thin flexible paper sheet normally pervious to moisture, said sheet having on one surface thereof an exposed comparatively thin flexible wax film coating completely covering said surface and thereby imparting moisture-proof properties thereto and on its other surface an exposed flexible dried wax-free film consisting essentially of coalesced unvulcanized natural rubber particles, said film covering the complete said other surface of the sheet and being substantially dry and non-tacky and yieldingly self adhering when portions thereof are brought into engagement, but being non-adhesive to such surfaces as wood, glass and metal, the said non-tacky self-adhering film cooperating with said wax coating in moisture-proofing said paper sheet.

2,529,061
PROCESS FOR THE MANUFACTURE OF BUTANEDIOL AND BUTANONE
Paul Vergnaud, Melle, France, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France, a corporation of France
No Drawing. Application August 6, 1946, Serial No. 688,683. In France August 20, 1945
7 Claims. (Cl. 195—43)

1. A process for making 2,3-butanediol which comprises, combining 3 - hydroxy - 2 - butanone with an aqueous sugar-containing solution and fermenting the same with a Mesentericus organism selected from the group consisting of *Mesentericus vulgatus*, *Mesentericus ruber* and *Mesentericus fuscus* while passing an air current of the order of about 1.5 cubic meters of air per hectoliter of solution per hour therethrough, to cause production of a greater quantity of 2,3-butanediol than formed if such 3-hydroxy-2-butanone had not been combined with said solution.

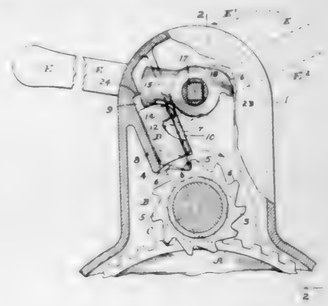
2,529,062
WELL PUMP INSTALLATION
Clifford C. Williams, Joliet, Ill.
Application April 14, 1947, Serial No. 741,383
8 Claims. (Cl. 103—1)



1. In a well pump construction the combination comprising a connection casing adapted to be located below frost level, said casing having therein a passage terminating in an orifice on the inner surface of the casing and having means on the exterior for connecting said passage with a conduit or the like, said casing having seating means on its inner face surrounding said orifice, a connector, a rotary pump carried thereby, said connector having an outer surface adapted to rest upon the inner surface of said casing, said outer surface having therein an orifice connected with said pump and having a seating surface surrounding said orifice and adapted to seat against the seating means on said casing, means for registering said orifices, and means for applying pressure at said seats to seal the connection between said orifices.

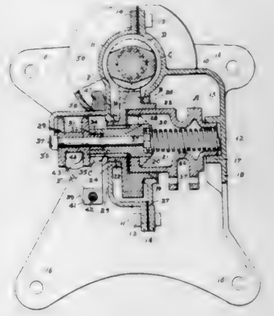
2,529,063
HAND BRAKE HOLDING AND RELEASING MECHANISM
Keith Williams, Buffalo, N. Y.
Application November 20, 1945, Serial No. 629,883
1 Claim. (Cl. 188—81.1)

In a holding and releasing device for hand brake mechanism of the ratchet type, the combination of a horizontal shaft having a toothed ratchet wheel and rotatable in either direction, a socket member, a pawl slidable radially in said socket member into and out of engagement with said ratchet wheel teeth and having a tooth formed on one of its faces, a horizontal rock shaft and a lever thereon for rotating the same, a finger on the said rock shaft for engaging said tooth on said pawl and moving the same out of engagement with said ratchet wheel teeth when said lever is rocked to one side of the vertical center of said rock shaft, and a second finger on said rock shaft extending into the path of the end of said pawl away from said ratchet



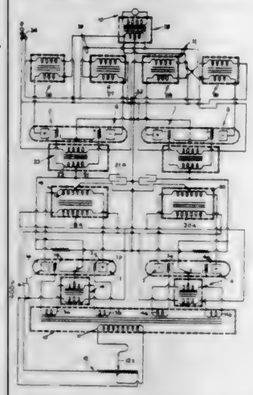
wheel for engaging said end of said pawl to hold it in engagement with said ratchet teeth when said lever is rocked to the opposite side of said vertical center.

2,529,064
HAND BRAKE
Keith Williams, Buffalo, N. Y.
Application September 6, 1946, Serial No. 695,078
18 Claims. (Cl. 74—505)



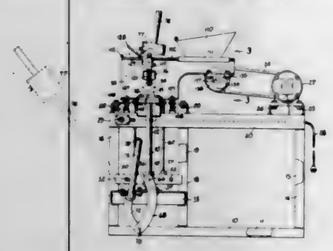
1. In a hand brake mechanism, the combination with a rotary chain-winding drum; of manually-actuated means rotatable in reverse directions; a shiftable clutch operatively connecting the drum to the manually-actuated means; rotary means for rotating the manually actuated means in chain-winding and unwinding directions; and means for shifting the clutch to break the connection between the winding drum and manually-actuated means comprising a movable member connected to the clutch, a rotary member having shouldered engagement with the movable member to actuate the latter, and ratchet means operatively connecting said rotary member to the manually-actuated means for rotation therewith in chain-unwinding direction said ratchet means comprising a ratchet element on said rotary member and a corresponding ratchet element rotatable with said rotary means on an axis co-axial with the axis of rotation of said rotary means.

2,529,065
SERVO SYSTEM
George Agins, Brooklyn, N. Y., assignor to Arma Corporation, Brooklyn, N. Y., a corporation of New York
Application July 20, 1946, Serial No. 685,091
6 Claims. (Cl. 318—289)



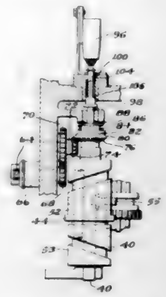
1. In a servo-system amplifier for receiving an alternating current signal of reversible phase, variable amplitude and given frequency, the combination of a source of alternating current of said given frequency, a pair of full-wave rectifier means responsive, respectively, to one phase and to the reverse phase of said signal for rectifying alternating current from said source, a source of alternating current of different frequency, a pair of push-pull amplifier means responsive, respectively, to the outputs of said pair of rectifier means, and energized by alternating current from said source of different frequency, and means for combining the respective outputs of said push-pull amplifier means such that the output of one push-pull amplifying means has one phase while the output of the other push-pull amplifying means has the reverse phase, said combined outputs forming an alternating current of said different frequency, and said amplifier being entirely free from any external or internal D. C. plate supply source.

2,529,066
BLOCK MOLDING MACHINE
Taft T. Annas, Hickory, N. C.
Application June 17, 1946, Serial No. 677,331
2 Claims. (Cl. 25—41)



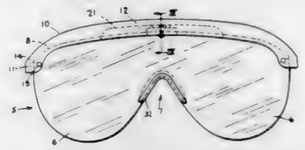
1. A block making machine comprising a first frame, a second frame resiliently mounted on top of the first frame, said second frame having a mold cavity therein serving as a mold and into which plastic material may be poured for forming a block, the first frame having a plurality of cores extending upwardly therefrom into the mold, said mold having a vertically slidable bottom or pallet disposed therein and having openings therein fitting around the cores, the first frame having bearings thereon, stub shafts mounted in the bearings, the said stub shafts being secured to the second frame, a plurality of compression springs disposed between the first and second frames for resiliently supporting the second frame, the second frame having a cantilevered extension extending from the upper half thereof, a rotatable shaft mounted in the endmost portion of the cantilevered extension of the second frame and having eccentric members thereon, means mounted on the main frame and having a flexible driving connection with the rotatable shaft in the cantilevered extension of the second frame for imparting rotation to the shaft to impart vibration to the second frame to cause a settling of material in the mold, a plurality of supports for the pallet or movable bottom, a vertically slidable frame to which the supports are secured, means comprising a lever having a link pivotally secured to one end thereof and a connection between the other end of the link and the vertically slidable frame for moving the vertically slidable frame upwardly to move the movable bottom upwardly to expel the block from the mold, a hopper slidably mounted on top of the second frame, and having an opening therein of approximately the same size as the upper end of the mold, a plate mounted on the upper side of the second frame and having an opening therein coinciding with the upper portion of the mold, means for slidably mounting the hopper on top of the second frame so that it can slide over and cover the upper portion of the mold or slide away to expose the upper portion of the mold, and eccentric means carried by the second frame for clamping the hopper in position over the upper end of the mold while material is being poured thereinto.

2,529,067
GEARSHIFT CONTROL MECHANISM
Arthur F. Bennett, West Barrington, George B. Hirsch, Providence, and Walter A. Gigger, Barrington, R. I., assignors to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application January 24, 1948, Serial No. 4,194
14 Claims. (Cl. 74—472)



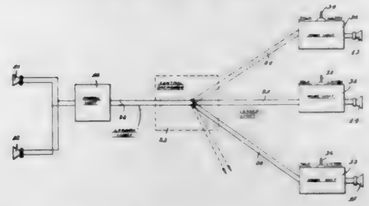
1. In a machine tool having a movable part, an electric motor, and a variable speed transmission including relatively shiftable gears through which the motor is connected to drive the movable part, a gear shift control mechanism which comprises a movable shifting element, devices controlled thereby for shifting the gears, and a connection between the shifting element and said devices including a yieldable element responsive to a greater than normal resistance to the shift of said gears initiated by said control element, and a controller actuated by said yieldable element to impart a starting impulse to the electric motor.

2,529,068
EYE PROTECTION DEVICE
Daniel P. Bernheim, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 18, 1945, Serial No. 623,063
4 Claims. (Cl. 88—41)



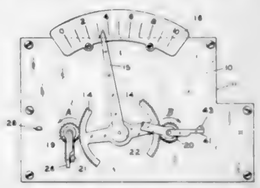
1. An eye protection device of the character described comprising a relatively rigid bar-like support having a grooved portion extending from adjacent its opposed ends and having a sidewall curved in the direction of the general contour of the face, a transparent shield of flexible material having its upper edge portion seated in said grooved portion and cupped by the curvature of said sidewall of the grooved portion to the general curvature of the face, said upper edge portion of the shield seated within the grooved portion being notched adjacent its opposed ends, and the bar-like support having projections in said grooved portion adjacent the ends for engagement with said notched portions, said shield having an apertured portion adjacent said upper edge portion and in the central region thereof, and latch means carried by the support having a movable part extendable into said apertured portion and withdrawable therefrom, said movable part of the latch and apertured portion of the shield cooperating with the notched portions in the upper edge portion of the shield and the projections adjacent the ends of the support for detachably maintaining the shield in assembled relation with the bar-like support.

2,529,069
SCHOOL TO HOME SYSTEM
Allan C. Bernstein, Brooklyn, N. Y.
Application August 10, 1948, Serial No. 43,470
18 Claims. (Cl. 179—1)



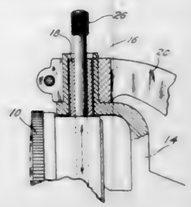
1. An electrical intercommunication system comprising electrical transducers at separated points, a two wire transmission line coupling said transducers, electrical switching apparatus for establishing the direction of energy flow between said transducers over said transmission means, said switching apparatus including manually operable means at one end of said transmission means adjacent one of said transducers and automatically operable means at the other end of said transmission means adjacent the other of said transducers, and means including said two wire transmission line for operating said automatically operable means by operation of said manually operable means.

2,529,070
MEAN VELOCITY INDICATOR
Perry A. Borden, Woodbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application December 8, 1945, Serial No. 633,807
9 Claims. (Cl. 235—61)



1. Apparatus for measuring the average velocity of a moving member, comprising a deflectable element, means for driving said element at a velocity proportional to that of said member, a second deflectable element, means for driving said second deflectable element in accordance with the difference between a constant predetermined velocity and the velocity of the first mentioned means, means for rendering the first mentioned driving means effective upon the first deflectable element in alternate intervals of unvarying duration, means for rendering the second mentioned driving means effective upon the second deflectable element in intervals of unvarying duration intervening the first mentioned intervals, and means controlled by said deflectable elements for exhibiting the average velocity of said member.

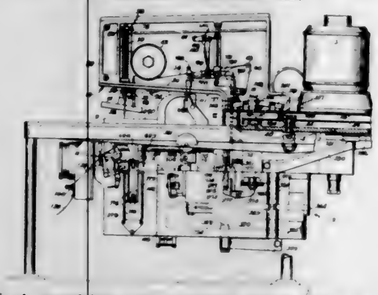
2,529,071
UNIVERSAL SUPPORT FOR INDICATORS
John J. Borrup, West Hartford, Conn.
Application December 24, 1946, Serial No. 718,139
4 Claims. (Cl. 33—172)



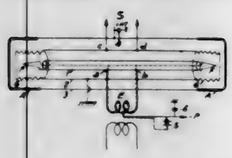
4. A universally adjustable mounting for a dial indicator having a central outstanding lug formed on its casing and a stem through which the indicator spindle extends comprising a bracket rigidly attached to said lug at one end, a sleeve formed on said bracket at its opposite end through which said indicator stem freely extends,

an arcuate arm rotatably connected at one end to said sleeve, and a support pivotally connected to said arm at its opposite end, the axes of said connections being normal to each other.

2,529,072
BUTTONHOLE SEWING MACHINE
Leonard R. Bradford, Arlington, William W. Dunneil, Jr., Boston, and Francis J. McAvinney, Dorchester, Mass., assignors, by mesne assignments, to The Reece Corporation, Boston, Mass., a corporation of Massachusetts
Application May 21, 1948, Serial No. 28,464
45 Claims. (Cl. 112—65)



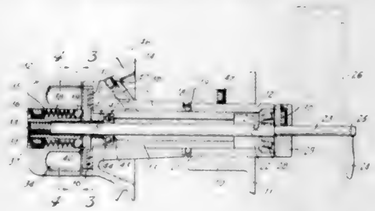
7. A machine for forming piped holes in flat base material comprising a work clamp which holds the base material, a folder which moves portions of a piping patch placed in the base material toward the center of said patch leaving folds therein, stitching mechanism which sews said folds to the flat base material, a cutter piercing said material and patch and thereby forming registering straight slits therein, additional cutting means which cut diverging tab slits at the ends of said registering straight slits, a patch turner movable through said registering straight slits and bringing a substantial portion of the patch through the slit in the base material to the side of the base material opposite to that on which the patch was originally located and operating mechanism for said work clamp folder stitching mechanism cutter mechanisms and patch turner actuating said parts in predetermined timed relation with respect to each other during the operative cycle of the machine.

2,529,073
POWER AMPLIFICATION SYSTEM FOR VERY SHORT WAVES
Henri Chireix, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application August 2, 1946, Serial No. 688,150
In France October 25, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 25, 1964
5 Claims. (Cl. 179—171)

1. In a short wave amplifier, a thermionic tube having anode, cathode and grid electrodes, means for grounding said anode electrode for high frequency voltages, two inductances one entirely surrounding the other and coupled therebetween inductively with a coefficient of coupling substantially equal to unity, these outer and inner inductances having adjacent terminals connected respectively to said grid and cathode electrodes, means for grounding the other terminals of said two inductances at least for high frequency voltages, means for applying high frequency input voltages on the said inner inductance and means for picking up high frequency output voltages on the said outer inductance.

2,529,074
WOMAN'S HOSE SUPPORTER
Lenore B. Cooley, New York, N. Y.
Application November 23, 1946, Serial No. 711,859
3 Claims. (Cl. 2—33)

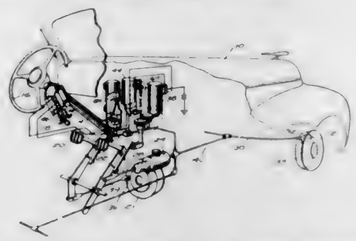
1. A garter belt for women comprising upper and lower sections, said upper section being arcuate in shape and having substantially parallel edges when freely extended to lie in a plane, the lower section having a generally arcuate shape when freely extended to lie in a plane, the upper edge of said lower section being curved oppositely to the edges of said upper section, said lower section having garters thereon at spaced points, the lower edge of said upper section being joined to the upper edge of said lower section whereby to provide a waistline for said garter belt, the arcuate shapes of said joined parts causing said garter belt snugly to fit a wearer in a form fitting manner above and below the waist.

2,529,075
WINDING MECHANISM
Wilfred P. Dawson, Detroit, Mich.
Application October 30, 1947, Serial No. 782,970
6 Claims. (Cl. 242—55)



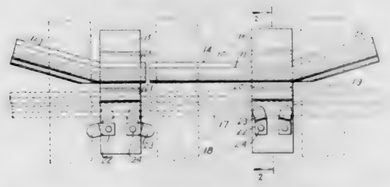
1. A tensioning device of the kind described comprising a pulley mounted for rotation on a tubular support, the pulley having in one face thereof a circular depression defined by an annular shoulder along the periphery of the pulley, a plurality of rollers in the tubular support annularly arranged and flaring outwardly, a shaft axially disposed within the tubular support and adapted to carry at one end a film reel, a collar adjoining said end of the shaft and being in the shape of a truncated cone in a frictional engagement with said rollers, a clutch plate, axially slideable on the shaft for engagement with the face of the depression in the pulley and rotating thereon with said shaft, a cup-shaped head on the other end of the shaft, the head having a plurality of cylindrical apertures parallel to the shaft, a ball within each aperture bearing against the clutch plate, each ball being backed up by a coiled spring within the aperture, and an adjustable screw threaded against said spring.

2,529,076
HAND CONTROL FOR MOTOR VEHICLES
Joseph A. N. Dubreuil, Pawtucket, R. I.
Application October 6, 1945, Serial No. 620,683
17 Claims. (Cl. 192—3.5)



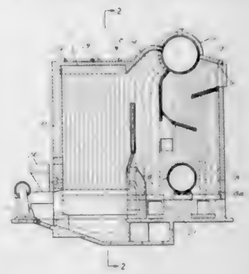
1. In a control system for a motor driven vehicle for use by a leg cripple, wheel braking means, clutch means for operatively connecting the power to the wheels, motive means for actuating the braking means to apply the brakes, motive means for moving the clutch means back and forth from operative to inoperative positions, a gear shift lever, a finger operable member movably mounted on the gear shift lever for controlling the braking means motive means and a second finger operable member also movably mounted on the gear shift lever for controlling the clutch means motive means whereby one hand may actuate the gear shift lever and fingers of said hand operate the braking means and clutch means.

2,529,077
PREFABRICATED DETACHABLE GUARD RAIL, PARTICULARLY FOR MINE TRACKS
Stephen A. Fredrick, Washington Township, Fayette County, Pa.
Application June 17, 1947, Serial No. 755,202
1 Claim. (Cl. 238—17)



A unitary demountable guard rail and attaching means therefor for use with a flanged track rail supported by spaced ties comprising a guard rail portion having a base adapted to rest upon the ties, attaching portions spaced longitudinally on the guard rail portion and extending laterally therefrom, clamping means on the guard rail adapted to engage the upper surface of the flange of the track rail nearer the guard rail, the attaching portions being adapted to extend beneath the flanged track rail between the ties and at the parts thereof adapted to lie beyond the flanged track rail at the side thereof remote from the guard rail portion having their upper surfaces disposed to lie generally in the plane of the bottom surface of the flanged track rail, and projecting dogs lying atop said parts of the attaching portions and pivoted thereto adapted to be turned into position to engage the upper surface of the flange of the track rail remote from the guard rail to removably fasten the guard rail to the track rail.

2,529,078
BOILER WATER DRUM MOUNTING
Gulver O. French, Maplewood, N. J., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application July 11, 1945, Serial No. 604,441
3 Claims. (Cl. 122—336)



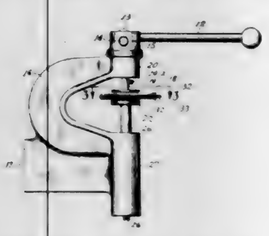
1. In a steam generator unit of the bottom-supported type, the combination of a lower water drum extending crosswise of the unit, an upper steam and water drum disposed above said lower drum substantially directly thereover, at least one bank of boiler tubes interconnecting said upper and lower drums and serving to support the upper drum from the lower drum, a furnace combustion chamber adjacent the forward side of said boiler tube bank, water tubes lining the side walls of said furnace chamber and including left and right side wall rows each of which extends at substantially right angles to said transverse lower drum, means connecting the upper ends of said side wall tubes into said upper drum, left and right bottom headers respectively joined with the lower ends of said left and right rows of side wall tubes and respectively extending from forwardly of said transverse lower drum beneath the left and right end portions of that drum to points rearwardly of said drum, means connecting said left and right bottom headers for reception of water from at least one of the aforesaid two drums, bottom-supporting foundation means for said left and right headers adapted to carry the entire weight of those headers plus said side wall tubes and of said lower and upper drums plus said bank of interconnecting boiler tubes and of other pressure parts in the generator, and left and right support members respectively interposed between said left and right lower headers and the said lower water drum for the purpose of supporting said lower drum upon those two headers and also for fixedly spacing that drum above said headers, said support members thus facilitating the proper relative positioning of pressure-part elements of the steam

generator during assembly and erection and during operation constituting anchor points with respect to which the aforesaid boiler tubes and side wall tubes connected into circulation with said upper and lower drums expand and contract as the temperature thereof is raised and lowered.

2,529,079
LIPSTICK CONTAINER
Howard B. Greene, Cheshire, Conn., assignor to Metalite, Inc., Meriden, Conn.
Application April 16, 1948, Serial No. 21,350
2 Claims. (Cl. 206—56)

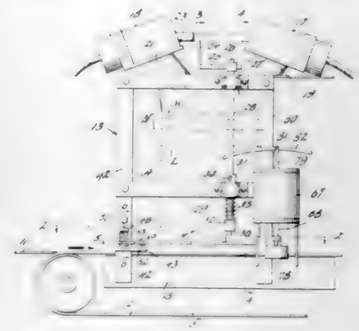
1. A lip rouge container comprising, a cylindrical body, rouge-holding and transporting means contained within the body, said means including a head portion located at one end of the body, said head portion being rotative to cause actuating of the rouge-transporting means, said head being provided with a rearwardly-extended part having recesses, and a closure cap having an open end fitting over the recessed rear end portion of the head, said cap having at least one inwardly-extending projection engaging in one or the other of the recesses in the head to thereby establish a coupling between the cap and head and cause rotative movement of the head when the cap is removed from its closure position and is fitted over the rear end of the head and is manually rotated.

2,529,080
CONTACTOR
Raymond S. Hart, Brooklyn, N. Y.
Application February 17, 1948, Serial No. 8,993
1 Claim. (Cl. 175—183)



A non-insulated contactor of the character described, comprising a C-shaped body member; a slidable plunger mounted in one end of said body member, said plunger having a cylindrical disc at its inner end; an eccentric cam rotatably mounted at right-angles to said slidable plunger and in operational engagement with the outer end of same; a lever fastened in said eccentric cam whereby same may be rotated; a second first plunger and in axial alignment with same; slidably mounted in an opposing position to said first plunger and in axial alignment with same; adjustable spring loading means associated with said second plunger; a contacting electrode placed between said cylindrical discs, said contacting electrode being insulated on both sides from said plungers by a fibre to be tested, and electrical connections tying said electrode and said plungers to a sensitive resistance indicating circuit whereby the moisture content of the fibre to be tested can be read in terms of electrical resistance.

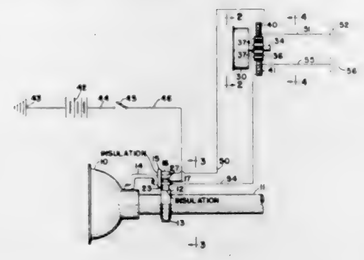
2,529,081
APPARATUS FOR REJECTING IMPROPERLY FILLED SOAP CONTAINERS
Harley Roland Hughes, Anchorage, Ky., and Curtis Darwin Rice, Omaha, Nebr., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application June 25, 1945, Serial No. 601,530
7 Claims. (Cl. 209—82)



1. Apparatus for checking the level of a substance in a container comprising a photoelectric inspection device having means for directing a beam of light onto said substance and light sensitive means for receiving light reflected from said substance, means for providing a pilot light beam for directing light onto said light sensitive means, a shutter, and means operated by positioning of said container adjacent said device for momentarily interposing said shutter in the path of said pilot light beam so that said light sensitive means is exposed only to light reflected from said substance for a limited inspection interval.

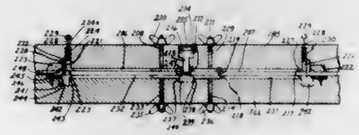
2,529,082
ELECTRICALLY OPERATED SPEEDOMETER FOR AUTOMOTIVE VEHICLES
Hal B. Jaynes, Lenoir, N. C.
Application October 3, 1947, Serial No. 777,724
3 Claims. (Cl. 318—27)

1. An electrical speedometer comprising a speedometer having a shaft for driving the same extending therefrom, a circular insulation member mounted on the shaft and having a plurality of spaced soft iron members along its periphery, a pair of magnets disposed in spaced relation around the periphery of the member having the soft iron members thereon, a switch having a pair of fixed contacts and a movable switch member, the fixed contacts being connected to the magnets, a source of electrical energy and a connection between the source of electrical energy and the movable switch member, cam means on a driven portion of the vehicle for imparting oscillatory motion to the movable switch member for causing it to alternately engage the two fixed contact members to pass current alternately through the magnets to impart



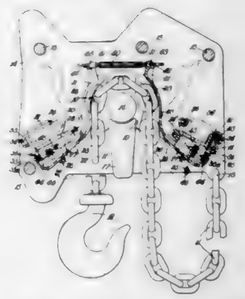
rotation to the speedometer shaft, whereby said insulation member diminishes and retards the force of the magnetism transmitted from a soft iron member adjacent the energized magnet to those soft iron members disposed remotely from the energized magnet and whereby those soft iron members disposed remotely from the energized magnet will not be as strongly attracted to the magnet which is not energized as would be the case if the soft iron members were not insulated from one another.

2,529,083
APPARATUS FOR MAKING RECORDS
Lincoln M. Keefe, Brooklyn, N. Y.
Application July 9, 1946, Serial No. 682,260
3 Claims. (Cl. 18—21)



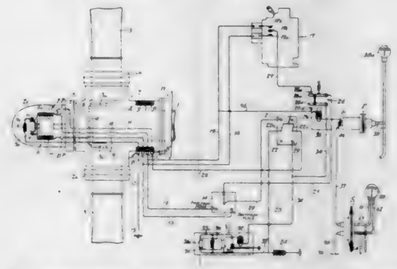
1. In a device for producing records wherein two rotating drums driven in definite time relation to one another, carry matrixes matching each other in position relation, circular cutting means on one of said drums parallel to the outer periphery of the matrix thereon, stripper means set into the surface of said last-mentioned drum between and concentric with both the matrix thereon and said circular cutting means, and a ring of lignum vitae material set into the surface of the other of said drums parallel to the periphery of the matrix thereon and adapted to be engaged by the cutting edges of said cutting means as said drums are rotated, whereby an impressionable web, passed between said drums, receives impressions on opposite faces thereof from said matrixes and at the same time the portion receiving said impressions is cut out from the web to form a disc, said stripper means being adapted to force said disc from the interior surface of said circular cutting means.

2,529,084
CHAIN GUARD
Donald Mayer King, Hitchin, England, assignor of one-half to Geo. W. King Limited, Hitchin, England, a company of Great Britain
Application November 14, 1946, Serial No. 709,744
In Great Britain March 25, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires March 25, 1962
6 Claims. (Cl. 254—173)



1. In a hoist pulley block including a hoist block frame and a chain sprocket rotatably mounted in said frame and around which the hoist chain passes, a chain guard comprising in combination, an arm having a portion shaped to fit about a section of the chain as it passes around the sprocket, a carrier element on which said arm is mounted for pivotal movement at a point intermediate its ends, resilient means connected to said arm at a point displaced from its pivot point and adapted to urge said arm towards the chain, an adjustable stop member associated with said arm at the opposite side of its pivot point to that at which the resilient means are connected and a rigid stop member with which said adjustable stop member is adapted to co-operate to limit the extent of the movement of the arm towards the chain under the action of said resilient means.

2,529,085
CONTROL SYSTEM
Ralph J. Kochenburger, Montclair, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 7, 1944, Serial No. 543,832
8 Claims. (Cl. 170—135.72)



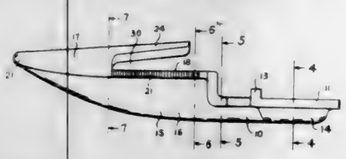
4. In a control system in combination, a prime mover, a variable load therefor, a first means for changing said variable load at normal rate and at higher than normal rate, a governor responsive to normal changes in the operating condition of said prime mover for operating said variable load changing means at normal rate, a second means

including a circuit operable in response to sudden and substantial power change of said prime mover from any initial power setting, a third means operated by said second means to operate said variable load changing means at higher than normal rate in the sense of increasing load with increasing power, and an interrupter in said circuit for rendering said second means inoperative, said interrupter being operated by a device sensitive to variations in another quantity resulting from prime mover operation.

2,529,086
METHOD OF MAKING FINE MESH SCREENS
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1946, Serial No. 666,037
8 Claims. (Cl. 204—11)

1. The method of forming a fine mesh screen which comprises forming grooves of a predetermined screen pattern in the surface of a hard ceramic plate, cathode sputtering a very thin layer of metal consisting essentially of about 1 part bismuth, 7 parts palladium, and 25 parts gold over said surface and in said grooves, removing the metal from the ungrooved portion of the surface, electroplating from a neutral or acid bath a substantial thickness of another metal over the sputtered metal in said grooves and stripping the formed screen from said plate.

2,529,087
MOWER GUARD
James M. Leake, Monroe, Mich.
Application April 2, 1947, Serial No. 738,962
2 Claims. (Cl. 56—310)

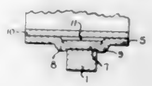


1. A mower guard body member formed from a single metal blank, sheet of predetermined size and shape, said body member comprising upper and lower body portions; said upper body portion comprising an upper nose portion at the forward end thereof, and an upper lip portion extending rearwardly from said upper nose portion; said lower body portion comprising a lower nose portion at the forward end thereof, a substantially T-shaped mid-section extending rearwardly from said lower nose portion, and a dished portion near the rear of said body member; said lower nose portion and the vertical portion of said T-shaped mid-section being substantially solid by being formed from two vertical extending walls in vertical contacting relation, the opposite edges of the horizontal portion of said T-shaped mid-section provided with serrations, said horizontal portion of said T-shaped midsection forming a substantially solid base, said substantially solid base in conjunction with said serrations providing a ledger plate, a flat surface portion partially surrounding said dished portion, and the base of said dished portion provided with an opening through which a fastening member may be extended to secure said mower guard to the guard of a mower.

2,529,088
METHOD OF MAKING ONE-PIECE ANGULAR FRAME MEMBERS
James M. Leake, Monroe, Mich.
Application September 16, 1947, Serial No. 774,314
1 Claim. (Cl. 29—148)

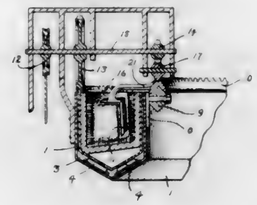
The method of making a closed frame member of generally rectangular outline, of right-angle cross-section, and of precise predetermined dimensions, comprising the steps of bending two flat metal strips about lines in the plane of the strips to form two U-shaped members with long straight legs, abutting the free ends of the legs of said U-shaped members and welding said ends together to form a continuous one-piece frame member of generally rectangular outline and of rectangular cross-section corresponding to that of the original strip, removing any excess material formed in the welding process, die-pressing said one-piece frame member without changing its generally rectangular outline to form it to be a uniform obtuse-angle cross-section having one leg of the obtuse angle perpendicular to the bottom plane of the frame and the inclined leg of the cross-section extending inwardly within the frame, and finally die-pressing said frame member without changing its generally rectangular outline by completely confining the cross-section in dies subjected to a sufficient pressure to cause the metal of said frame to flow and form a frame of precise predetermined dimensions and with walls of right angle cross-section, the leg of the cross-section which was originally perpendicular to the bottom plane of the frame remaining thus perpendicular, the other leg extending inwardly within the frame.

2,529,089
ENGINE ROCKER ARM
James M. Leake, Monroe, Mich.
Application July 29, 1948, Serial No. 41,246
5 Claims. (Cl. 74—519)



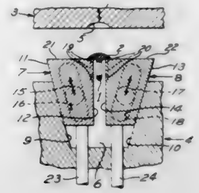
1. An engine rocker arm comprising a solid stamped metal arm member, an aperture in said arm member intermediate the ends thereof, a hub member secured in said aperture, an expanded ring portion of said hub member engaging the annular wall surrounding said aperture, an annular upset flange portion of said hub member engaging each side of said arm member, and a tubular bearing member secured in said hub member, an annular oil passageway provided between said expanded ring portion of said hub and said tubular bearing member, an oil passageway extending from the inner surface of said tubular bearing member to said annular oil passageway and an oil passageway extending from said annular oil passageway to the top surface of said arm member.

2,529,090
EGG WASHER
Robert W. Lesher, Duluth, Minn.
Application November 20, 1946, Serial No. 711,155
8 Claims. (Cl. 15—3.15)



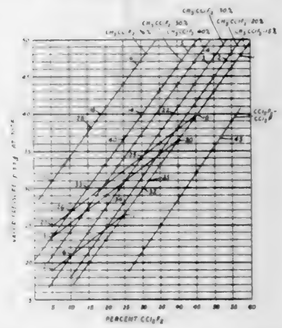
1. In an egg washing machine: a stationary annular supporting V-bottomed water holding base; anti-friction bearings within and adjacent the bottom of said base; a similarly shaped open-topped egg-receiving pervious rotatable pan within said base and resting upon said bearings, the upper portion of said pan having a continuous but varying shaped brush-lined interior for causing moving eggs therein to travel tortuously; anti-friction bearings carried adjacent the upper edge of the inner wall of said base; an annular racked brush-carrying rotatable ring resting upon said last mentioned bearings and having radially disposed equally spaced arms extending therefrom, each carrying a bristled brush depending within said brush lined interior for activating an egg therewithin; and power means for simultaneously rotating said ring and said egg-receiving pan in opposite directions.

2,529,091
MOLD FOR A PLASTIC RING HAVING AN ANNULUS AND A MOTIF
William M. Lester, Mountainside, N. J.
Application October 5, 1946, Serial No. 701,446
2 Claims. (Cl. 18—42)



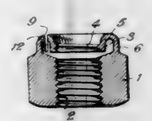
2. A die for molding a ring having an annulus and a motif from thermo-plastic material which die includes a normally stationary part having a mold cavity for the motif therein, a separable part movable toward and away from said stationary part, two movable parts carried by said separable part each having a portion of the cavity for the annulus therein and being movable relative to the separable part and towards and away from each other, and means for effecting relative movement of the said two movable parts upon separating movement of the separable part to position the said two movable parts to drop a ring molded in the mold cavity.

2,529,092
LIQUEFIED GAS PROPELLANT COMPOSITIONS
Frederick G. Lodes, Yonkers, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application November 26, 1948, Serial No. 61,999
8 Claims. (Cl. 252—305)



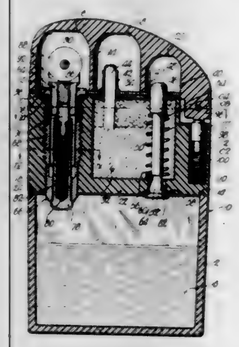
1. A non-flammable, non-toxic liquid composition, adapted for use as a dispersant, having a vapor pressure in the range of about 18 to about 40 p. s. i. g. at 70° F., and consisting of 1,1,1-difluorochloroethane, dichlorodifluoromethane, and trichlorofluoromethane; said composition containing by weight about 15% to about 76% 1,1,1-difluorochloroethane, about 45% to about 5% dichlorodifluoromethane, the remainder being trichlorofluoromethane; the amounts of 1,1,1-difluorochloroethane and dichlorodifluoromethane being such that said composition has a total volatile matter content of 1,1,1-difluorochloroethane and dichlorodifluoromethane of not less than about 40% and not more than about 95% by weight, said composition being maintained under sufficient pressure in a confined space to keep it in the liquid phase.

2,529,093
LOCK NUT
Richard W. Luce, Southport, Conn.
Application July 25, 1945, Serial No. 606,918
1 Claim. (Cl. 151—21)



A lock-nut of the kind for effecting a frictional engagement between the surface of the thread thereof and the surface of the thread of a bolt entered therein, which lock-nut comprises an internally tapped body portion having the load-carrying thread therein, an axially spaced smaller tapped portion and a resilient portion including a circular inwardly curved wall section reversely bent through an angle of approximately one hundred and eighty degrees uniting the two tapped portions and normally maintaining the two tapped portions with the threads thereof out of phase, the resilient portion having a plurality of elongated relatively narrow slots extending through the bend thereof and along chords of the circular wall.

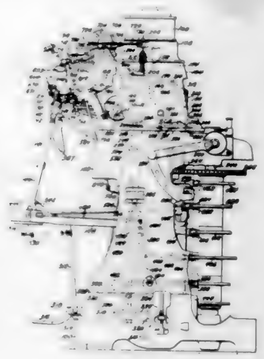
2,529,094
CIGARETTE LIGHTER ASSEMBLY
Price Bland Miller, Kansas City, Mo., assignor to Miller Liter Company, Kansas City, Mo., a corporation of Missouri
Application August 1, 1949, Serial No. 107,866
5 Claims. (Cl. 67—7.1)



3. In a lighter of the kind described, a hollow case having a top wall, a bottom wall, a normally horizontal partition between the walls, presenting a fuel compartment between said partition and said bottom wall, and a normally vertical partition joining said top wall and the horizontal partition, presenting a wick compartment having a loose filling of fibrous, absorbent material therein, and a flint assembly compartment, said top wall and said horizontal partition each having a pair of spaced openings therein, one opening of the top wall and one opening of the horizontal partition registering with the wick compartment and having an elongated, reciprocable plunger extending therethrough; a valve on the plunger for said one opening in the horizontal partition, the other opening of the top wall and the other opening of the horizontal partition registering with said flint assembly compartment and having a flint assembly extending therethrough; flint supporting means forming a part of said assembly; a friction wheel carried by said supporting means exteriorly of said top wall; a wick extending through said top wall and into the said wick compartment between the plunger and the friction wheel; and a lid swingably to and from a position covering said top wall, said lid being provided with separate cavities for receiving each of said friction wheels, the proximal end of said wick and the proximal end of said plunger respectively.

2,529,095
SHOE MACHINE
Alfred R. Morrill, deceased, late of Woodstock, Vt., by Ruth W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 15, 1946, Serial No. 669,830
52 Claims. (Cl. 112—35)

1. In a machine for operating upon shoes, shoe operating means including a shoe sewing mechanism comprising stitch forming and shoe guiding devices arranged for sewing a seam about the sole margin of a shoe, a trimming mechanism for trimming surplus material from the sewn seam, a shoe supporting jack, and means for imparting relative feeding and positioning movements to the jacked shoe and operating means relative to said work guiding devices to cause the shoe to be presented properly to each of said shoe sewing

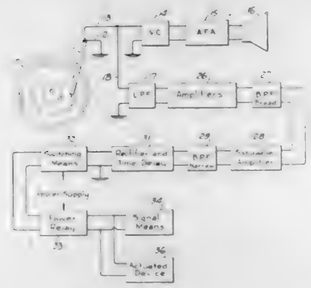


and trimming mechanisms, and the operation of said mechanisms to be transferred about the shoe.

2,529,096
TRAIN ORDER DELIVERY DEVICE
Raymond A. Mott, Mead, Wash.
Application December 7, 1946, Serial No. 714,734
4 Claims. (Cl. 258—23)

1. In a train order delivering device, a standard, a sleeve slidable vertically along the standard from a lowered position to a raised position, a latch for releasably holding the sleeve raised, upper and lower brackets projecting laterally from said sleeve, a post disposed vertically and rotatably mounted between said brackets, upper and lower arms projecting laterally from said post, clips at outer ends of said arms, a latch carried by the upper arm and having a casing and a pin slidable vertically through the casing and urged upwardly into position to engage through an opening in the upper bracket to releasably hold the arms in position to extend toward a railroad track, a spring about said post for returning the frame to its normal position and retract the arms when the pin of the latch is moved to a releasing position, a latch-releasing member consisting of links loosely connected with each other and extending between and connected with the latch and the lower arm, and a clip carried by a link of the latch-releasing member for engagement by a looped cord carrying a message and applied to the clips of the arms whereby pull upon the cord to detach it from the clips will exert pull upon the link and cause the latch pin to be shifted downwardly and the upper arm released and the frame swung to move the extended arms to a retracted position parallel to the track.

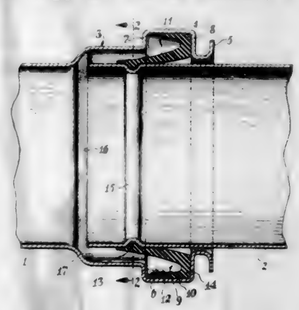
2,529,097
SOUND RECORDING AND REPRODUCING SYSTEM WITH RECORDED CONTROL SIGNAL
John T. Mullin, San Francisco, Calif., assignor to W. A. Palmer Films, Inc., San Francisco, Calif., a corporation of California
Application January 6, 1947, Serial No. 720,398
10 Claims. (Cl. 179—100.1)



4. In a sound reproducing system of the type having a sound record with recorded voice frequencies thereon and also with two constant recorded control frequencies, both said control frequencies being of a value below the minimum frequency of the voice frequencies, one control frequency being continuous except for short periods of interruption when it is desired to effect operation of a response means and the second control frequency being recorded for said periods of interruption and being of a frequency lower than the first control frequency; electrical control apparatus comprising means for translating said control frequencies into electrical pulses, a response means, means whereby said response means is adapted to be operated by pulses derived from the lower one of said frequencies, and an amplifying network interposed between the response means and the translating means and including a pulse amplitude limiter for limiting the amplitude of pulses of the higher control frequency and compression pulses of the lower frequency while pulses of the higher control frequency are being received, thereby preventing operation of the response means except during said periods of interruption.

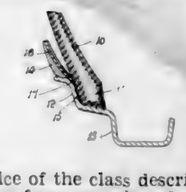
2,529,098
PIPE COUPLING
George A. Noll, Lake Alfred, Fla.
Application March 27, 1946, Serial No. 657,501
2 Claims. (Cl. 285—163)

1. A gasket for a pipe joint comprising an annular body substantially V-shaped in cross-section having flaring walls, one of which tapers to a thin edge and has an inwardly extending



circumferential rib on its inner surface adjacent said thin edge.

2,529,099
BALANCE WEIGHT
Leo Olbrys, Hamtramck, Mich.
Application December 29, 1945, Serial No. 638,156
2 Claims. (Cl. 301—5)

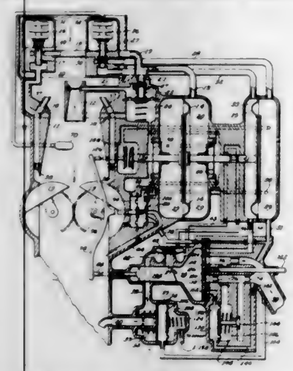


1. In a device of the class described, a weight, a tab extending from one edge of said weight for insertion between the bead of a tire and the flange of the rim on which the tire may be mounted, and a reinforcement extending from and in alignment with said tab substantially directly through said weight to the opposite edge thereof to present its end as a protective area on the last-mentioned edge of said weight to receive hammer blows.

2,529,100
AIRCRAFT CARBURETOR
Andrew William Orr, Jr., Detroit, Mich., assignor to George M. Holley and Earl Holley
Application April 27, 1946, Serial No. 665,445
12 Claims. (Cl. 261—39)

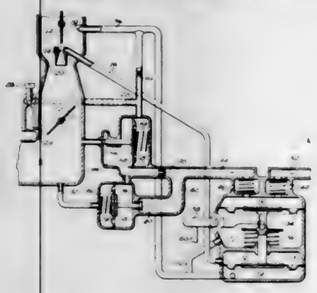
1. In a carburetor having an air entrance and a venturi therein, an air chamber, an air diaphragm dividing the air chamber into two halves, a passage connecting the throat of said venturi to a low pressure side of said diaphragm, an automatic valve normally unseated and located in said passage adapted to be further opened by an increase in venturi suction, a second passage connecting the low pressure side of the diaphragm to the air entrance, a barometric responsive valve in said second passage, said valve being responsive to pressure of the air in the air entrance and being adapted to admit more air at air entrance pressure into the low pressure side of said diaphragm as the pressure in the air entrance decreases, a passage transmitting the air entrance pressure to the high pressure side of the air diaphragm, a fuel chamber, a diaphragm therein, dividing the fuel chamber into two halves, said diaphragm being arranged

to oppose the movement of the air diaphragm, a fuel entrance, a fuel passage, a fuel restriction therein, a passage connecting the pressure side of said fuel diaphragm with the pressure on the upstream side of said fuel restriction, a passage connecting the low pressure side of said fuel diaphragm with the downstream side of said fuel restriction, an automatic fuel control valve, means inter-connecting the air and fuel diaphragms with said automatic fuel control valve so as to vary the fuel flow and maintain



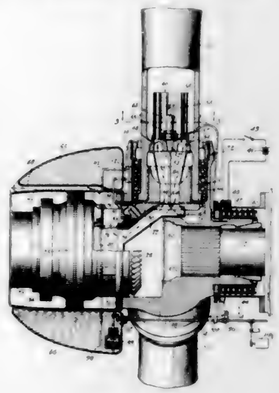
the two diaphragms in equilibrium so as to maintain a fuel/air ratio at an approximately constant value, a bypass from the high pressure side to the low pressure side of said fuel diaphragm, a valve in said bypass, a temperature responsive element connected to said valve being located so as to respond to the mean temperature of the air flowing through the air entrance, said temperature responsive valve being adapted to be moved to a relatively less restricted position at low temperature and to a relatively more restricted position at high temperature.

2,529,101
PRESSURE CARBURETOR
Andrew William Orr, Jr., Detroit, Mich., assignor to George M. Holley and Earl Holley
Application August 30, 1946, Serial No. 693,907
5 Claims. (Cl. 261—27)



3. A fuel and air supply system for an internal combustion engine comprising, an engine operated diaphragm pump, yieldable means for moving the diaphragm in the pumping direction, positive means for moving the diaphragm in the suction direction, an air chamber, a second diaphragm connected to the first diaphragm and located so as to divide said chamber into two parts, an air entrance, a venturi therein, a passage subjecting one side of said second diaphragm to venturi suction, a second passage to the air entrance subjecting the other side of the air entrance pressure, the passages being connected to the air chamber associated with the second diaphragm so that the second diaphragm adds its influence to the yieldable means acting on the first diaphragm as the venturi suction increases, a fuel entrance to the fuel pump, a check valve therein, a fuel exit, a check valve therein, a fuel passage leading to an outlet into the main air passage, a valve in said outlet, a third diaphragm connected to said valve and responsive to the fuel pressure generated by said pump, yieldable means tending to close the valve, an air chamber on one side of said third diaphragm, a passage connecting this air chamber to the air entrance.

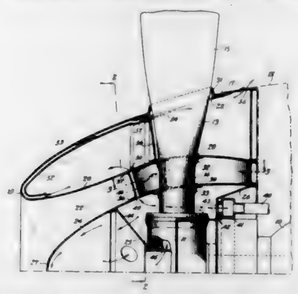
2,529,102
DEICING SYSTEM FOR AIRCRAFT PROPELLERS
Everett P. Palmatier, Solvay, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application June 22, 1945, Serial No. 600,937
4 Claims. (Cl. 244—134)



1. In a de-icing mechanism for an aircraft propeller, a hollow hub, a plurality of hollow blades rotatably secured in said hub for pitch variation, an annular pitch-changing gear coaxial with said hub axis, and indexing gears meshing therewith drivably connected with each of said blades, means for delivering air into each of said blades comprising a manifold extending through said annular gear and dividing to supply each blade, means for delivering fuel to each of said blades, means for igniting said fuel and air within said blades, and means for exhausting the products of combustion from within each of said blades.

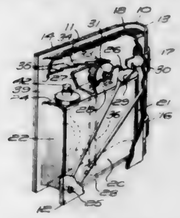
2,529,103
SPINNER DEICING SYSTEM
Everett P. Palmatier, Solvay, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application February 13, 1946, Serial No. 647,249
1 Claim. (Cl. 244—134)

In an aircraft power plant, a rotating propeller system comprising a propeller hub having variable pitch blades extending therefrom, a spinner embracing the hub having openings through which said blades pass in clearance relation, an annular cowl around the spinner, open at its forward end, defining with said spinner an annular air passage across which the propeller blades pass, said cowl having openings through which said blades pass in clearance relation, cuff elements within said passage embracing the blade portions passing thereacross in clearance relation, means within said cuff elements defining narrow passages within the leading edges thereof



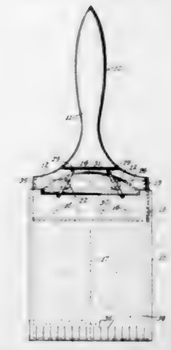
and of which passages the cuff leading edge forms a defining wall, means to seal the blades relative to the exterior surface of said cowl, said spinner and cowl being hollow and in communication with the passages of said cuff elements, and means to feed a hot medium into said spinner hollow for series flow from the spinner hollow, through said cuff passages and into said cowl hollow for de-icing purposes.

2,529,104
CIGARETTE LIGHTER
William Regelmann and Elizabeth Regelmann, Cranston, R. I.
Application April 19, 1948, Serial No. 21,776
1 Claim. (Cl. 67—7.1)



A cigarette lighter comprising a housing, said housing having a flat rectangular shape to simulate the appearance of a book, a fuel tank pivotally mounted in said housing, a wick extending from said tank, means for urging said tank pivotally out of said housing, said means including an elbow spring having an arm abutting said housing, an arm abutting said tank, and an intermediate elbow extending around the pivot of said tank, means for releasably retaining said tank in position within said housing, said means including a plate mounted for vertical movement in said housing and having manually engageable means outside said housing, said plate having a vertical slot, an extending portion on said tank adapted to engage said slot, and a spring for yieldingly retaining said plate in downward closed position, and means for throwing a plurality of sparks to light said wick during the outward pivotal movement of said tank, said means including a plate on said tank having spaced ears, a sparking wheel pivotally mounted between said ears, one face of said wheel having a toothed surface, a fixed rack mounted in said housing in the path of movement of said wheel, a spring on said wheel pivot for yieldingly retaining the teeth of said rack and wheel in operative engagement, and a flint extending from said tank portion and being yieldingly maintained in contact with the under side of said wheel.

2,529,105
SANDING DEVICE
Carl Rogers, Port Sandfield, Ontario, Canada
Application April 14, 1948, Serial No. 20,862
In Canada July 30, 1947
8 Claims. (Cl. 51—187)



1. A manually operable sanding device for use in finishing surfaces which comprises a handle having a hand gripping portion and a base portion, a flexible and resilient body having one end secured to said base portion and its main part projecting therefrom, flexible abrasive strips overlying the opposite faces of said flexible body, and securing devices for retaining said abrasive strips in juxtaposition to the faces of said flexible body, said flexible body and said abrasive strips being adapted to flex freely first in one direction and then the other in substantially the same manner as the bristle body of a paint brush as the outer ends thereof are drawn back and forth across a surface to be finished in a sweeping movement.

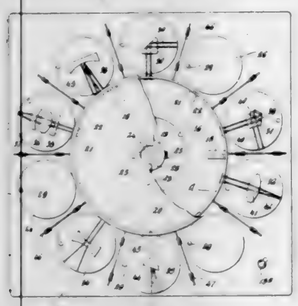
2,529,106
COMBINED HOOD AND RESPIRATOR
George H. Schauweker, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 19, 1947, Serial No. 786,914
14 Claims. (Cl. 128—141)

13. In a combined hood and respirator, the combination of a face piece adapted to fit snugly over the nose and mouth of the wearer, inhalation means located on the front of the face piece, exhalation means located on the face piece in the lower regions thereof, a cap member adapted to be supported upon the head of the wearer, adjustable means in the cap member to adjust the hood to the head of the wearer, a drape portion depending from said cap over the entire head of the wearer and covering a major portion of the shoulders and having means extending beneath the arms of the wearer to secure the drape portion to the shoulders, a window

opening in the drape portion, a removable window located in the window opening, and means for attaching the hood to the respirator comprising a second opening beneath the window opening and through which the said inhalation

and exhalation means may project, said second opening having convergent strap members formed on the opposed lower sides thereof and being adapted to be drawn and secured together between the exhalation and inhalation means to secure the hood to the respirator.

2,529,107
OPTICAL DEMONSTRATING DEVICE
Abraham Shapiro, New York, N. Y.
Application December 19, 1945, Serial No. 635,927
3 Claims. (Cl. 35—19)



1. A device of the character described, comprising a light source, an annular opaque shield surrounding said light source and having therein a plurality of spaced apart slits in substantially radial alignment with the light source, a plurality of platforms each adapted to support an optical element thereon, said platforms being disposed in a common plane which is substantially perpendicular to the planes of the slits in the shield, at least some of said platforms being rotatable discs mounted on centers which are substantially in radial alignment with the slits in the shield, supplemental opaque shields disposed between adjacent platforms and each slit being of a length and so related to a platform to project a beam of light from the light source onto and across a platform and onto an optical element when supported on a platform.

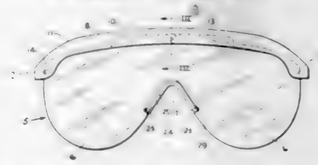
2,529,108
POLYMERIC ACRYLATE ESTER COMPOSITIONS
Carl L. Shapiro, Beaver Falls, Pa., assignor to Acryvin Corporation of America, Astoria, N. Y., a corporation of Delaware
No Drawing. Application February 3, 1945, Serial No. 576,161
6 Claims. (Cl. 260—89.5)

1. A method of making polymeric compositions which comprises mixing methyl methacrylate with an amount of salicylic acid ranging from .0001 to 20% based on said acrylate, refluxing said mixture and heating the same until it has polymerized to a solid state.

2,529,109
APPARATUS FOR SEALING TUBULAR GLASS ARTICLES
Walter A. Shields, Jamaica, N. Y.
Application October 29, 1946, Serial No. 706,355
18 Claims. (Cl. 49—7)

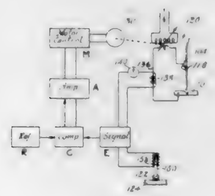
1. In apparatus for sealing tubular glass articles, a conveyer arranged to support the articles in equidistantly spaced relation, a heating element positioned in spaced relation to a portion of the conveyer to heat an end portion of the articles on the conveyer, and a head rotatably mounted independently of and rotating relative to the conveyer and heating element and arranged with a plurality of means to engage the extremity of the heated end portions of successive articles on the conveyer and remove the engaged extremities from the heated end portions of the articles by the rotation of the head, the removing of the engaged extremities from the heated end portions of the articles drawing the heated end portions to seal said end portions of the articles.

2,529,110
OPHTHALMIC DEVICE HAVING DETACHABLE SHIELD
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 1, 1945, Serial No. 619,583
8 Claims. (Cl. 88—41)



8. An ophthalmic device of the character described comprising a bar-like member of relatively stiff material having a front surface curved substantially to the contour of the face of the wearer and having an attachment seat formed therein and extending longitudinally thereof, said bar-like member having temple attachment means adjacent the opposed ends thereof, a thin resilient shield member having its upper edge detachably secured in said seat, the means for securing said shield member in said seat comprising a recess formed adjacent each end of one of said members and a bearing portion formed adjacent each of the opposed ends of the other of said members and shaped to extend within the respective recesses of said first member, said shield member having a centrally disposed apertured portion adjacent its upper edge and a substantially normally disposed projection member carried by the bar-like member extending into the attachment seat and through said apertured portion of the shield for preventing downward movement of said shield when in assembled position, and with the inherent resiliency of said shield serving to releasably maintain the bearing portions of said other member within the recesses of the first member.

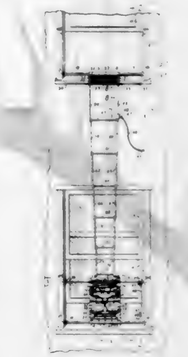
2,529,111
CONTROL FOR WELDING MACHINES
Arthur W. Steinberger, Elizabeth, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application February 19, 1947, Serial No. 729,526
15 Claims. (Cl. 219—8)



1. A welding current regulating system comprising means for varying a supply of welding current, means responsive to said current according to the magnitude thereof, means operable according to a welding current schedule, means jointly controlled by said welding current responsive means and said schedule means for selectively producing alternate sense control quantities with respect to a reference value and means controlled thereby according to the sense of a selected control quantity for controlling the supply of said current so as to maintain welding current at the schedule value.

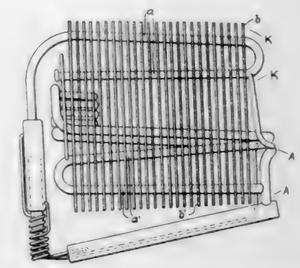
2,529,112
WINDOW MOUNTED COLLAPSIBLE FIRE ESCAPE
Claude G. Steele, Mooresville, N. C., assignor of one-third to Marshall F. Crouch and one-third to Robert J. Holhouser, both of Mooresville, N. C.
Application July 26, 1947, Serial No. 763,796
5 Claims. (Cl. 228—44)

1. A fire escape adapted to be secured in the lower portion of a window of a building comprising a shaft having its ends secured to the sides of the window frame, a frame member pivoted at one end of the said shaft and a second frame member pivoted to the free end of the first frame member and a plurality of successive frame members pivoted respectively at their inner ends to the outer ends of the preceding frame member by transverse rungs penetrating the ends of adjacent successive frame members, each succeeding frame member being of less width than the adjacent frame member so that they can all be folded into nested position, and means for holding the members in nested vertical position between the sides of the window frame and a flexible member having means on one end thereof adapted to be secured to the clothing of a person escaping from the room and



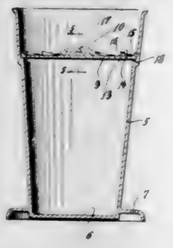
having a cuff member on the other end of the flexible member for slidably engaging the successive members of the ladder to prevent the falling of a person on the ladder in case of his becoming unbalanced on the ladder, said cuff member having a slot in one side thereof to permit passage of the cuff member past the rungs.

2,529,113
ABSORPTION REFRIGERATING APPARATUS
Hans Stierlin, Zurich, Switzerland
Application October 2, 1945, Serial No. 619,821
In Switzerland September 9, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires September 9, 1964
2 Claims. (Cl. 62—119.5)



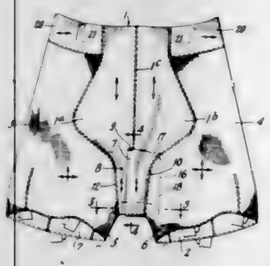
1. An absorption refrigerating apparatus comprising two aggregates, a condenser and an absorber, respectively, each of said aggregates including a U-shaped bent tube having diverging legs, the bend of the tube of the condenser and the bend of the tube of the absorber being arranged in opposed relation to each other, said legs of said absorber and said legs of said condenser being connected with each other by common cast-on cooling fins, whereby a thermal contact between condenser and absorber takes place and a rigid unitary structure is effected.

2,529,114
SAFETY DRINKING CUP
Andre Tellier, New York, N. Y.
Application February 21, 1948, Serial No. 10,012
1 Claim. (Cl. 65—13)



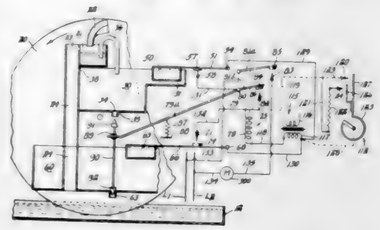
A safety drinking cup comprising a hollow body portion and having an open top end, an inner shoulder on the body portion below said open top end, spaced studs extending inwardly from the inner surface of the body portion above and adjacent said shoulder, a detachable cap seated on said shoulder, said cap having spaced slots along its periphery communicating with the interior of the hollow body portion, said slots having flared outer edges, upstanding flanges formed on one surface of said cap at its periphery and between the slots, said flanges having upper tapered camming surfaces, the highest portion of one flange being arranged adjacent the lowermost portion of the adjacent flange whereby the lowermost portion is presented to the studs, said studs being adapted to coact with said camming surfaces for detachably securing the cap on the shoulder, said tapered edge walls of the slots serving to guide the cap to proper position and to facilitate the flow of the liquid.

2,529,115
FOUNDATION GARMENT
Sally Whitmore Thalman, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut
Application January 16, 1947, Serial No. 722,342
2 Claims. (Cl. 2—43)



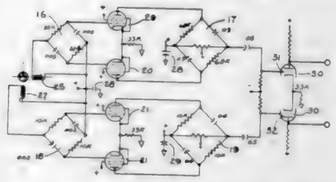
1. A girdle comprising a front panel, a rear panel, side panels between said front and rear panels and joined thereto by stitching, the lower portions of said side panels and said rear panel forming leg-encircling portions of said girdle, said girdle having a crotch portion comprising an extension from said front panel projecting downwardly and thence from the front to the rear of the garment and terminating in an end stitched to said rear panel, said extension being stitched along one edge to an adjacent side panel and having an opposite edge terminating short of the other side panel to define an edge of a crotch opening, the material of said extension being folded upon itself to provide a smooth double-thickness crotch-opening edge, another extension from said front panel projecting downwardly and thence from the front to the rear of the garment adjacent the first-mentioned extension, said other extension terminating in an end stitched to said rear panel and being also stitched along an edge to said other side panel, said other extension having a flap portion projecting laterally from said stitched edge beyond said crotch-opening edge of the first-mentioned extension and lying inside the latter to provide a removable closure for said crotch opening.

2,529,116
MOTOR CONTROL SYSTEM
Joseph O. Thorsheim, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 12, 1947, Serial No. 734,042
19 Claims. (Cl. 318—485)



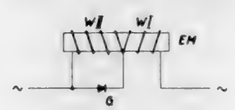
1. Control apparatus for a motor comprising, in combination; a relay for controlling said motor, said relay including a movable armature; a holding circuit for said relay controlled by said armature; temperature responsive means connected in controlling relation to said relay; and timer controlled apparatus also connected in controlling relation to said relay, said timer controlled apparatus comprising a timer, a first switch for energizing said relay, a second switch in said holding circuit for deenergizing said relay, and means controlled by said movable armature for selectively conditioning said timer to cause operation of said first or second switch by said timer.

2,529,117
ELECTRICAL PHASE SHIFT SYSTEM
Howard E. Tompkins, Media, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 30, 1945, Serial No. 613,457
7 Claims. (Cl. 178—44)



1. A dual network comprising two separate signal channels, each of said channels having a pair of input terminals for impressing signals thereon and a pair of output terminals, a pair of terminals of one of said channels being connected to the corresponding pair of terminals of the other channel, said networks being in lattice form and consisting of distinct branches, some of said branches consisting solely of pure resistors and others of said branches consisting solely of substantially pure reactors to provide phase shifts differing from each other by ninety degrees over a predetermined frequency range without substantial attenuation, each channel comprising a series of lattices in cascade, the general relation between the phase of the signal in each lattice and the logarithm of frequency of the signal being substantially linear over a wide frequency band in each lattice, the values of the resistors and reactors being selected to provide inflection points of the relation between the phase and the logarithm of frequency which are different in the different channels, and amplifying tubes which couple said lattices in each cascade chain.

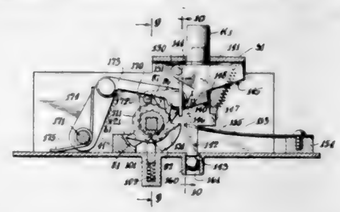
2,529,118
DOUBLE-ACTING RECTIFIER ARRANGEMENT COOPERATING WITH AT LEAST ONE ALTERNATING CURRENT-EXCITED ELECTROMAGNET, PARTICULARLY AN ELECTROMAGNETIC RELAY
Otto Tschumi, Soleure, Switzerland, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland
Application December 30, 1947, Serial No. 794,577
In Switzerland July 18, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 18, 1965
5 Claims. (Cl. 175—335)



1. In an electromagnetic circuit the combination of an alternating current-excited electromagnet comprising two magnetically-opposed windings having different ampere turns, a half-wave rectifier connected in series with one of the said windings and connected in parallel with the other of the said windings.

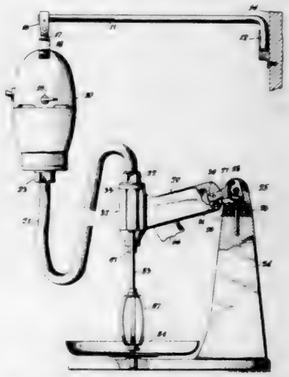
2,529,119
COMBINATION LOCK
Robert S. Wallach, Madison, N. J., and Irving D. Wallach, Port Washington, N. Y., assignors to Associated Development & Research Corporation, New York, N. Y., a corporation of New York
Application May 16, 1946, Serial No. 670,092
37 Claims. (Cl. 70—306)

32. In a lock in combination a movable bolt, actuating means connected to said bolt whereby the latter may be retracted, a shiftable member operatively connected to said actuating means for preventing bolt retraction by the latter, said member being formed with kerfs, movably mounted tumblers extending into said kerfs to prevent a shifting of said member, said tumblers being formed with notches, means for moving said tumblers to positions at which their notches accommodate said member to permit of a shifting of the same by said actuating means and an element engageable with said tumblers to



move all of the latter to predetermined initial positions.

2,529,120
SUPPORT FOR ELECTRIC FOOD MIXERS OR THE LIKE
Robert S. Wallach, Madison, N. J., and Irving D. Wallach, Port Washington, N. Y., assignors to Associated Development & Research Corporation, New York, N. Y., a corporation of New York
Application December 19, 1946, Serial No. 717,294
2 Claims. (Cl. 248—121)

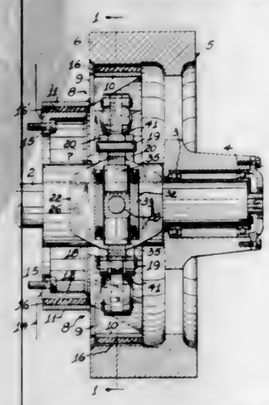


1. In an apparatus of the character described, a tool mount for a power driven tool comprising a handle having a portable tool-receiving socket, means for driving said socket from an external power source, a support for said tool comprising a standard, a head swivelly mounted thereon, an extension associated with said head and releasably engaging with the handle of said tool, detent means associated with said standard and head and engageable to optionally secure said handle at one of several angular positions about the periphery of said standard.

2,529,121
FLUID ACTUATED CLUTCH AND BRAKE MECHANISM
John N. Weiland, Cleveland, Ohio, assignor to The Cleveland Punch & Shear Works Co., Cleveland, Ohio, a corporation of Ohio
Application September 4, 1947, Serial No. 772,117
12 Claims. (Cl. 192—17)

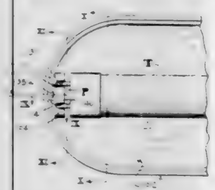
1. A clutch and brake mechanism embodying two axially aligned circular members, rotary means associated with said circular members in axial alignment therewith, friction shoe members pivoted at their one end portions to said rotary means and including flanges arranged to align

with said circular members, fluid-operated shifting means on said rotary means engaged with the other end portions of said friction shoe members and effecting rocking of said friction shoe members in one direction to frictionally engage one of said circular members, and spring-



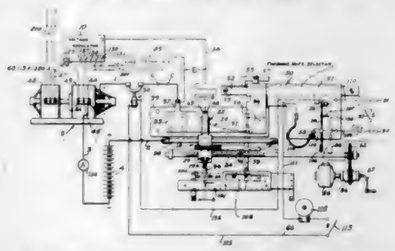
actuated shifting means engaged with the said other end portions of said friction shoe members and effecting rocking of said friction shoe members in an opposite direction to frictionally engage the other one of said circular members when said fluid-operated shifting means are inactivated.

2,529,122
COMBINED LAMP SHADE AND SOCKET FOR ELONGATED TUBULAR LAMPS
Victor I. Zelov, Rosemont, Pa.
Application March 12, 1948, Serial No. 14,582
4 Claims. (Cl. 240—51.11)



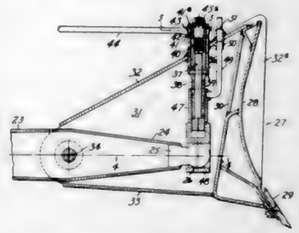
1. In apparatus for supporting an electric light bulb or tube of the type having a pair of contact prongs extending axially beyond an end thereof, a bulb shade of insulating material open at the bottom and closed at the top, sides and ends by wall structure; a partial double-contact socket comprising a body of insulating material including a pair of opposed side walls, a bottom wall and an end wall with the two last-mentioned walls joining the opposed side walls, and a rib carried by the end wall and disposed intermediate the opposed side walls and defining therewith a pair of spaced grooves; a pair of metallic contact elements disposed one in each groove of said pair of spaced grooves for engagement by a pair of contact prongs on an electric light bulb or tube when the latter is assembled in the shade; a pair of spaced ribs extending inwardly from an end wall of the shade for mating reception in the pair of spaced grooves in the partial socket body; and means for retaining the partial socket body and the bulb shade in the relation specified.

2,529,123
STORAGE BATTERY CHARGING SYSTEM
Frank Robert Arnold, Detroit Lakes, Minn.
Application October 18, 1946, Serial No. 704,123
15 Claims. (Cl. 320—24)



1. A battery charging system for lead batteries comprising a charging circuit for the battery, means to provide said circuit with current, a resistor of variable cross sectional area within said charging circuit, a sliding contact connected with said charging circuit, means for moving said contact along said variable area resistor from larger to smaller cross sections with constant speed and a voltage regulator for the voltage of the current in the charging circuit, keeping the voltage in the portion of the said variable area conductor which forms part of the charging circuit, at a constant value.

2,529,124
EARTH MOVER
Ellsworth W. Austin, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application August 2, 1944, Serial No. 547,751
2 Claims. (Cl. 37—144)

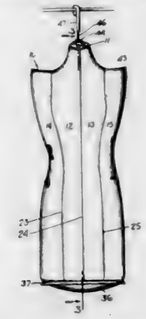


1. An earth mover comprising: a tractor; push arms pivoted to said tractor on either side thereof; a U-shaped tool supporting member pivoted to said push arms to the rear of the forward ends thereof; a jack screw journaled in each end of said tool supporting member and longitudinally immovable with respect thereto; a non-rotative sleeve threaded to said jack screw and provided with a socket for the reception of the end of one of said push arms; and means for turning said jack screw in either direction.

2,529,125
INFLATABLE DISPLAY FORM
Edmund Barbera, Howard Beach, N. Y.
Application December 12, 1947, Serial No. 791,205
1 Claim. (Cl. 223—67)

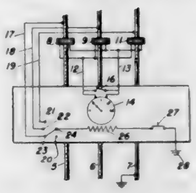
An inflatable display form of the character described having breast portions, said form comprising eight irregularly shaped pieces of plastic film material consisting of two opposed front

pieces, two front side pieces, two rear side pieces, two opposed back pieces, said eight pieces heat sealed along their edges forming ribs, a bottom portion heat sealed to the lower ends of said eight pieces, a substantially circular top portion heat sealed at the neck, a valve in said display form for inflating and deflating said form, diaphragms in said form, said diaphragms including a longi-



tudinal central diaphragm attached to the front and back portions of said form, a pair of smaller opposed diaphragms attached to the upper back portion and above the breast portions, said central diaphragm running approximately from the top to the base of said form, a bracket attached to the top of said form, a chain attached to said bracket permitting said form to revolve, and a hook attached to said chain.

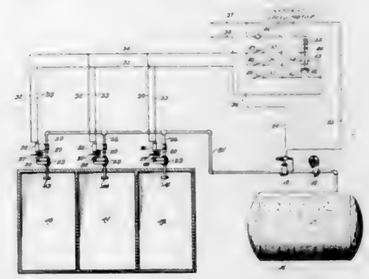
2,529,126
GROUND FAULT LOCATING DEVICE
Kenneth J. Barnes, Richmond, Calif.
Application August 20, 1947, Serial No. 769,646
1 Claim. (Cl. 175—183)



A ground fault locating device for use on normally ungrounded alternating current distributing systems and comprising a plurality of neutralizing coils, each inductively connected to a single current conducting lead, said coils being connected in parallel, an indicator conductively connected between the opposite sides of said coils, a selective switch conductively connected to said current-carrying leads between the neutralizing coils and the current source, and a current-controlled grounding means conductively connected to the common lead of said switch.

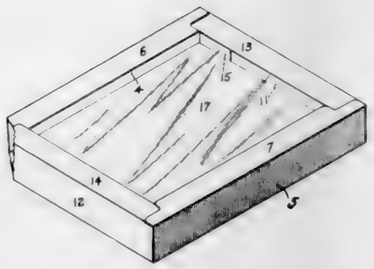
2,529,127
FIRE EXTINGUISHING SYSTEM
Walter A. Beach, Chicago, Ill., assignor to Cardox Corporation, Chicago, Ill., a corporation of Illinois
Application October 25, 1945, Serial No. 624,410
11 Claims. (Cl. 169—9)

1. A fire extinguishing system for protecting a plurality of separate hazards, comprising a storage tank for supplying liquid carbon dioxide, a discharge pipe extending from the tank, a master valve for controlling the flow of carbon dioxide through the discharge pipe, a header connected to the outlet of the master valve, a separate branch pipe line extending to each hazard from the header, a selector valve adapted only to be manually opened and closed for controlling each branch pipe, electrical means operable in



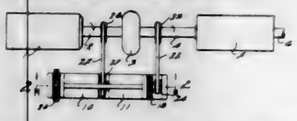
response to the opening operation of any selector valve while the remaining valves are closed for effecting opening operation of the master valve, means for effecting closure of the master valve after a predetermined time interval irrespective of the subsequent position of the selector valve after initial opening of the master valve, and means to prevent reopening of the master valve while any of the selector valves are open.

2,529,128
CARTON AND METHOD OF MAKING IT
Robert Morris Bergstein, Cincinnati, Ohio, assignor to Robert Morris Bergstein and Frank Bergstein, trustees
Application August 6, 1945, Serial No. 609,091
3 Claims. (Cl. 229—23)



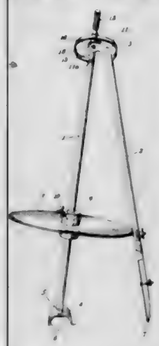
1. A rectangular box comprising a bottom panel, side and end walls integral with said bottom panel, said side and end walls each having a substantially coextensive longitudinally attached flange, a panel of non-scorable sheeting having substantially the dimensions of said bottom panel and forming the top panel of said box to which the said side flanges are adhesively secured except at end portions thereof, the said end flanges forming tuck-in flaps which are received between the unsecured ends of the said side flanges and said top panel.

2,529,129
AUTOMATIC TRANSMISSION CONTROL APPARATUS
John A. Blair, Pleasant Ridge, Mich., assignor to Charles M. O'Leary, Los Angeles, Calif.
Application May 18, 1946, Serial No. 670,821
15 Claims. (Cl. 74—731)



1. A device for responding to the existence of a predetermined ratio between the speeds of rotation of two members comprising a rotatably mounted actuated element, a pair of driving elements adapted to be connected to said members and driven thereby at speeds respectively proportional to the speeds of the members, means including a separate torque transmitting device connecting each driving element to said actuated element in such a manner as to transmit opposing torque forces to the actuated element, said torque transmitting devices being of the type which deliver a torque that varies as a function of the difference between the speed of the actuated element and that of the driving elements, respectively, and means for limiting rotation of the actuated element in both directions whereby said element tends to move from one limit to the other as the speed ratio of said members varies from a value less to one greater than a predetermined value.

2,529,130
INSTRUMENT FOR DRAWING NONCIRCULAR CURVES
Philip Blampied, Flushing, N. Y.
Application June 25, 1947, Serial No. 756,888
2 Claims. (Cl. 33—27)

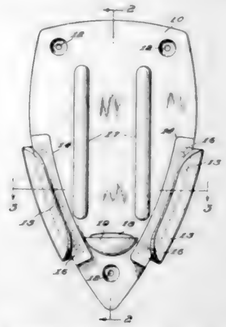


1. A drafting implement comprising a pair of legs, one leg having means for carrying a substance for marking a surface, a foot pivotally connected to the other end of the other leg, said foot having pointed projections at its opposite ends extending away from said other leg, and means for pivotally connecting said legs so that one can be turned around the other as an axis, said means comprising a journal on the other leg, a member pivotally mounted on said journal, the one leg having a pair of lugs receiving said member between them, pivot screws uniting said lugs to said member, said journal having a groove to receive the inner ends of said screws, a shouldered projection on said member, a curved spring element having an opening receiving said projection and having pressing engagement at its ends with both said legs, and a knob engaging said projection securing said element thereon.

2,529,131
PROCESS FOR CONVERTING UNFERMENTABLE SUGARS IN VINASSE TO FERMENTABLE SUGARS
Firmin Boinot and Pierre Gautier, Melle, France, assignors to Les Usines de Melle (Societe Anonyme), of Saint-Leger-les-Melle, France, a corporation of France
No Drawing. Application October 9, 1947, Serial No. 778,770. In France March 27, 1947
11 Claims. (Cl. 195—41)

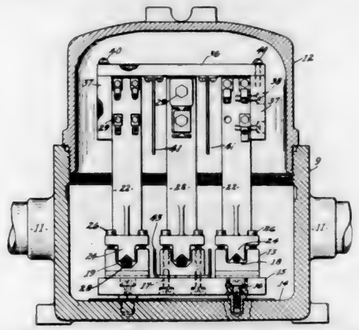
1. A process for converting unfermentable sugars to fermentable sugars in a vinasse of the type described, which comprises heating said vinasse in such a dilute condition as to contain no more than about 3% by weight of said unfermentable sugars, for about 15–60 minutes at a temperature of about 140–160° C., with an amount of a strong mineral acid equivalent to about 8–15% of hydrochloric acid as reckoned on the weight of said unfermentable sugars and converting substantially completely said unfermentable sugars to fermentable sugars.

2,529,132
PRESSING IRON HOLDER AND COOLER
Howard J. Burnish, III, Dallas, Tex., and Verona F. Burnish, Holyrood, Kans.; Verona F. Burnish administratrix of said Howard J. Burnish, III, deceased
Application October 25, 1946, Serial No. 705,628
7 Claims. (Cl. 248—117.1)



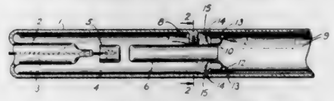
1. An iron holder and cooler comprising a relatively thin flat base member having a relatively wide end and tapering therefrom substantially to a point at the opposite end, apertured bosses extending from one side of the base member for engaging a wall to support the base member in spaced relation thereto and for receiving fastening devices to secure the base member to the wall with the pointed end downward, iron-confining flanges on opposite edges of the base member adjacent the pointed end thereof, a pair of iron-engageable ribs on the side of the base member opposite the side provided with the bosses and extending from points adjacent the wider end of the base member to points between the flanges for supporting the iron in spaced relation to the base member, and an air passage in the base member adjacent the pointed end thereof, said air passage being in the form of an elongated slit extending transversely of the ribs.

2,529,133
JUNCTION BOX
Harold L. Bush, North Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application October 1, 1947, Serial No. 777,219
5 Claims. (Cl. 174—59)



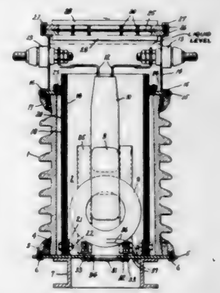
1. An explosion proof junction box for electrical conductors comprising a housing formed with conduit receiving apertures and having an opening in the top wall, a plurality of feed conductor terminal blocks mounted in the housing on the bottom wall thereof, a terminal bar detachably secured to each of said terminal blocks and extending outwardly through said opening, the lower ends of said bars being cooperable with said terminal blocks respectively to clamp conductors thereto, branch terminal connectors carried on the outer ends of said bars, and a closure cap enclosing the outwardly extending portions of said bars and forming a flame tight closure for said opening.

2,529,134
SUPPORT FOR ELECTRON GUNS
Albert L. Buttino, Chicago, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application October 2, 1947, Serial No. 777,501
9 Claims. (Cl. 250—155)



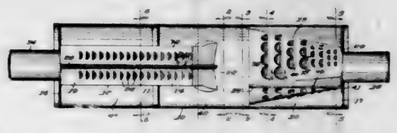
8. In a cathode ray tube, an envelope having a neck portion enclosing an electron gun for passing voltages of the order of 50 to 100,000 volts and comprising a cathode, a grid and an anode cylinder, a glass stem fastened to the neck and projecting therein, a plurality of metal pins projecting from the anode cylinder towards the wall of the neck but a substantial linear distance away from the grid, a glass bead sealing each pin to the inside of the neck wall thereby rigidly supporting the anode in linear alignment with the cathode and grid, a conductive coating partially covering the inside of the neck wall, two metal springs projecting from the end of the anode furthest from the grid and bent towards the neck wall, two metal strips fastened to the neck under said coating, a loop in the free end of each spring for contacting said coating above a corresponding strip, and an electrostatic shield for shielding the anode from the edge of the coating in the neck.

2,529,135
ELECTRIC INDUCTION APPARATUS
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application December 22, 1948, Serial No. 66,806
2 Claims. (Cl. 175—358)



1. An explosion safe porcelain clad liquid filled high voltage transformer, comprising in combination, a normally vertical hollow cylindrical porcelain insulator, a metal closure for the bottom of said cylinder which is normally at substantially ground potential, low voltage terminals mounted on said closure, a metal closure for the top of said cylinder which is normally at line potential, high voltage line terminals mounted on said top closure, a transformer core and coil assembly having high and low voltage windings, said core and coil assembly being between said top and bottom closures and at least partially surrounded by said insulating cylinder, the high voltage winding being connected to the high voltage terminals and the low voltage winding being connected to the low voltage terminals, a protective liner for the porcelain cylinder comprising a duplex cylinder having a relatively thick inner zone of relatively soft insulating material and a relatively thin outer zone of hard insulating material, said liner being sealed to the top and bottom of said porcelain cylinder, pressure relief diaphragms in said top and bottom closures, and a liquid insulator filling all free space in said device up to a level in said top closure.

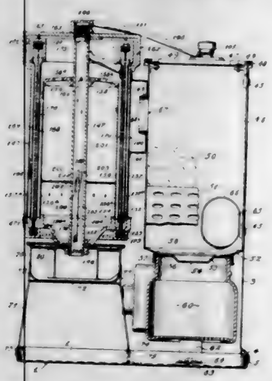
2,529,136
MUFFLER WITH PLURAL PERFORATED INNER ELEMENTS
Thomas A. Carlson, Riverdale, Ga., assignor to Automotive Mufflers, Inc., Chicago, Ill., a corporation of Illinois
Application August 3, 1949, Serial No. 108,317
3 Claims. (Cl. 181—48)



3. In a muffler for the exhaust of internal combustion engines, the combination which comprises an elongated cylindrical housing having receiving and discharge ends and provided with a transverse partition spaced from the said receiving end providing an enclosed chamber in said end, a receiving tube having a plurality of openings in the wall and having flaps struck from the openings extended inwardly from the said walls,

said receiving tube extended from the receiving end of the housing through the transverse partition and into the intermediate part of the housing with the openings of the walls positioned on both sides of the partition, and a funnel like element positioned in the opposite end of the housing with the small end thereof at the end of the housing and with the large end extended inwardly toward the intermediate part of the housing, said funnel like element also having openings in the walls thereof with tongues struck from the openings extended outwardly from the said walls, and said funnel like element also having a transverse partition in the large end thereof with openings in the partition and with the material struck from the openings of the partition extended outwardly of the element.

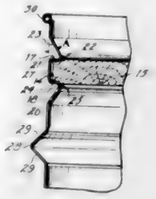
2,529,137
APPARATUS FOR PRODUCING VAPOROUS OZONIDES
Lee S. Chadwick, Shaker Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application June 30, 1945, Serial No. 602,596
12 Claims. (Cl. 21—74)



1. In apparatus of the class described, the combination of a mixing chamber, an evaporating tank having a vapor outlet communicating with said chamber, an ozone generator comprising a casing having a fluid inlet and a fluid outlet, the latter opening into the evaporating tank, ozone generating elements within the casing arranged to define therewith a passage including a first part in heat exchanging relation to the electrodes and a second part constituting the ozone generating space, means inducing a flow of fluid inwardly through said inlet, means for conducting fluid from the first part of said passage to the aforesaid outlet and thence to the evaporating tank, and means for conducting ozonized fluid from the second part of said passage to the mixing chamber, the mixing chamber having an outlet for the products of the apparatus.

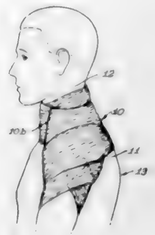
2,529,138
CONTAINER
Frank E. Chesney, Rocky River, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 17, 1946, Serial No. 716,755
8 Claims. (Cl. 220—5)

3. A container consisting of a cylindrical sheet metal body portion and disk-like head members enclosing the ends, the said body portion consisting of a plurality of arcuate-shaped sections welded together and having a pair of integral circular inwardly extending projections adjacent each end, each said projection consisting of a substantially perpendicular abutment connected by a rounded nose portion with an oblique wall, the said projections of each pair being spaced apart a distance substantially equal to the thickness of one of the said head members and being



adapted to form with the contiguous body portion between them a croze, each pair of the said projections being spaced from the ends of the container so that the distance from the outside surface of the head member retained in the croze to the end of the container is not substantially less than ¾ inch, the said body portion having a plurality of integral circular outwardly extending projections intermediate its ends, the said head members being retained in the said crozes.

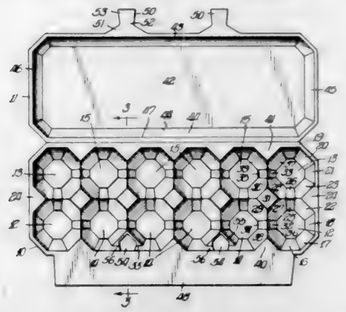
2,529,139
THERAPEUTIC PLASTER
Mitchell S. Corbett, Chicago, Ill.
Application March 18, 1948, Serial No. 15,615
4 Claims. (Cl. 128—89)



1. A therapeutic plaster comprising a plurality of superimposed layers of cockled, flexible, air-impermeable plastic sheet material having continuous surfaces of a synthetic plastic, said layers being bound together by the natural affinity between the plastic surfaces thereof to form a unitary plaster having dead air spaces formed between said layers due to the cockled contacting sheet surfaces.

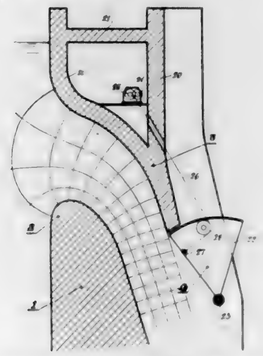
4. The method of making a flexible, air-impermeable plaster, which comprises crumpling a flexible film of synthetic plastic materials, forming said crumpled film into a plurality of superimposed layers bound together solely by the natural affinity between the plastic film surfaces, and applying said layers to a member to be treated.

2,529,140
CARTON
John W. Cox, Chicago, Ill., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application November 22, 1947, Serial No. 787,521
10 Claims. (Cl. 229—2.5)



1. A molded pulp carton, comprising a cellular bottom section having a cover-locking detent between adjacent cells, a non-cellular, tray-like cover section having top, front, rear and end walls, said cover being hinged to said bottom section along said rear wall, a cover bracing flap hinged to said bottom section and extending upwardly along the inside of the front wall of said cover section into generally upright bracing position with respect thereto when the sections are in closed relation, and a cover locking tab integral with the front wall of said cover, said tab being positioned in interlocking engagement with the detent in said bottom section from the outside of said carton.

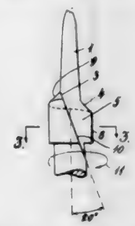
2,529,141
SPILLWAY INSTALLATION FOR DAMS
Pierre F. Danel, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France, a corporation of the French Republic
Application July 5, 1947, Serial No. 759,187
In France July 5, 1946
5 Claims. (Cl. 61—18)



1. In a spillway installation for dams wherein the downstream face of the dam is inclined outwardly and downwardly to provide an extended spillway surface freely open to the atmosphere at least along the lower portions thereof, the improvement which includes an outwardly and downwardly inclined sill which merges in the form of a smooth curve into the downstream face of the dam, means positioned above and in spaced relation to the sill for directing water overflowing said sill downwardly in a direction substantially parallel to the downstream face of said dam and in contact therewith, and a sluice gate movable toward and away from the downstream face of said dam across the orifice defined between said means and the downstream face of said dam.

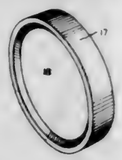
2,529,142
RESINOUS COMPOSITION SUITABLE FOR ANION EXCHANGE
James R. Dudley, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 20, 1946, Serial No. 649,127
1 Claim. (Cl. 260—67.6)

A method of making a resinous composition suitable for anion exchange which comprises mixing 63 parts of melamine with 202.5 parts of 37% aqueous solution of formaldehyde which has been neutralized to a pH of about 7 to 8 with triethanolamine, heating the mixture at a temperature of 75° to 80° C. until solution occurs, cooling the resulting solution to a temperature of about 50° to 60° C., adding 75 parts of a 30% aqueous solution of dimethylamine, thereafter adding 56 parts of 37% hydrochloric acid, allowing the resulting mixture to gel, aging the gelled solution for about 12 hours, grinding the thus aged gel, curing the ground gel at 50° C. for 4 hours and at 100° C. for 4 hours to produce a cured resin, grinding the cured resin and screening the thus ground resin to obtain a 20 to 40 mesh material.

2,529,143
TOOL FOR BORING AND COUNTERSINKING WOOD
Erik Viktor Eriksson, Stockholm, Sweden, assignor to Marcus & Co., Aktiebolag, Stockholm, Sweden
Application January 12, 1945, Serial No. 572,476
In Sweden October 14, 1941
1 Claim. (Cl. 145—123)

A boring tool for boring and countersinking wood which comprises a cutting bit of semicircular cross section having a planar longitudinal face, a shank, and an intermediate cylindrical countersinking body having a diameter larger than that of said bit and of said shank, said countersinking body having at its bit end a helical surface making an acute angle with the axis of the tool, a single longitudinal groove formed in said countersinking body extending throughout the length thereof and being defined by a leading planar wall and a trailing planar wall, the said leading planar wall having a backward pitch, forming an acute angle with the axis of the

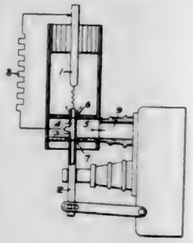
tool and forming a cutting edge at its intersection with said helical surface, the said trailing planar wall forming an extension of the planar face of the cutting bit, including the axis of the bit, forming an angle of about 90° with said leading wall, as measured in a plane perpendicular to the axis of the tool, and forming a trailing edge at its intersection with said helical surface.

2,529,144
RESISTANCE MATERIAL
Edmund A. Evans and Garnett H. Porter, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application March 29, 1945, Serial No. 585,474
13 Claims. (Cl. 201—63)



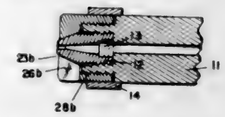
1. A resistance material including a mass of silicon carbide particles and a binder mixture for holding adjacent particles in contact, said binder mixture comprising 95% porcelain and 5% talc.

2,529,145
PNEUMATIC CIRCUIT BREAKER
Bernard Marie Hilaire Paul Fernier, Lyon, France, assignor to "Ateliers de Constructions Electriques de Delle," Societe Anonyme, Paris, France, a corporation of France
Application October 30, 1945, Serial No. 625,563
In Luxemburg July 27, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 27, 1959
13 Claims. (Cl. 200—148)



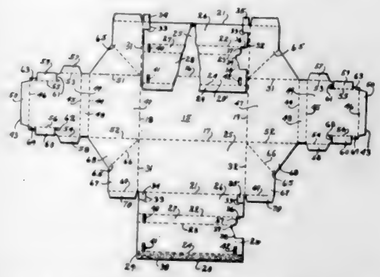
13. In a circuit breaker with pneumatic blow-out, a principal fixed electrode, a movable elongated electrode having a contact end, means for moving said movable electrode and its contact end axially thereof away from and toward said fixed electrode, a closed blow-out chamber having two spaced opposite walls, said chamber being provided in said opposite walls thereof with coaxial venturi nozzle openings each having a restricted throat and alined axially in the path of said movable electrode therethrough and providing a clearance around said movable electrode, said movable electrode being tubular, a separate elongated rod-shaped auxiliary electrode, mounting means carried by said chamber and carrying said auxiliary electrode for fixedly mounting said auxiliary electrode in said chamber in a position intermediate and extending between and spaced from said opposite walls thereof and for mounting said auxiliary electrode within the bore of said tubular movable electrode and in close clearance therewith during the passage of said movable electrode through said chamber and substantially coaxial with said nozzle openings, said tubular movable electrode comprising means for permitting the passage therethrough of said mounting means as said movable electrode moves through said chamber, said auxiliary electrode having terminal portions thereof which extend into said venturi nozzle openings and respectively terminate substantially at the restricted throats thereof.

2,529,146
INJECTION MOLDING APPARATUS
Rudolf Feitl, Brooklyn, N. Y., assignor to Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York
Application March 15, 1948, Serial No. 15,013
8 Claims. (Cl. 18—30)



8. In an injection molding machine in which molten material is supplied under high pressure to a mold through a liner and a nozzle affixed in and extending from the end of the liner, the liner carrying means for supplying heat to the nozzle, a nozzle construction comprising an inner nozzle member made from high strength material and having one end screw-threaded into a bore provided in the end of the liner and its other end formed as a conical tip which extends beyond the end of the liner, and an outer member made from material of high thermal conductivity disposed in encircling relation about the nozzle member, said outer member having a cylindrical skirt at one end which extends over the nozzle end of the liner and underlies the nozzle heating means, the other end of the outer member being disposed about and having surface contact on the conical tip of the nozzle member.

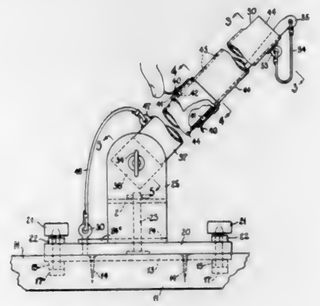
2,529,147
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application February 27, 1945, Serial No. 579,961
13 Claims. (Cl. 229—34)



1. In a knocked down carton of the class described the combination of a back, side walls projecting from two opposed sides of said back each comprising an outer member and an inner

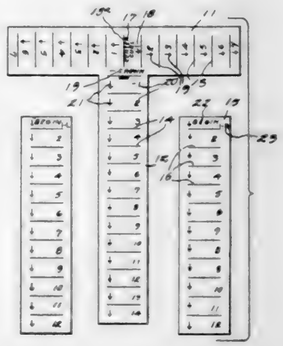
member, said wall members being parallel with one another throughout their height and contacting one another for a portion of their width, and spaced apart for the remaining portion of their width and a connecting portion between the spaced apart and contacting portions of the inner wall member, said contacting portions of each side wall being adhesively secured to one another and said spaced apart inner wall members being adhesively secured to the back whereby each wall may be folded flat with its members on one another for erection by merely raising said walls as individual units, a bottom wall extending from one of the remaining sides of the back, and said spaced inner side wall portions and connecting portions adjacent the bottom wall being cut away to provide a notch into said spaced wall portion and which notches are opened upon raising the walls.

2,529,148
ROD AND REEL HOLDER
Harry C. Fratt, Norristown, Pa.
Application October 1, 1945, Serial No. 619,495
1 Claim. (Cl. 248—42)



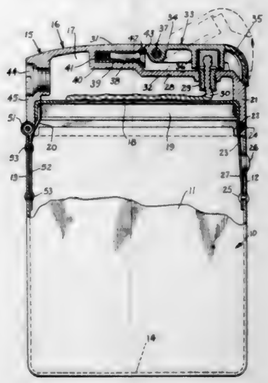
Apparatus for holding a fishing rod comprising a plate-like base member adapted to be secured to the deck of a boat, a pin rising vertically from the plate-like base member, a substantially U-shaped member having its bottom portion loosely penetrated by said pin and being rotatably mounted on said pin, means for holding the U-shaped member in adjusted position relative to the base member comprising a laterally projecting portion integral with the bottom portion of said U-shaped member and having a hole therethrough and said base member having a plurality of holes herein arranged in an arc of a circle having the same radius as the hole in the laterally projecting portion and into which holes a pin may be inserted, a bolt penetrating the upper ends of the two legs of the U-shaped member, a tubular member having its lower end swingably mounted on said bolt, a nut on said bolt whereby the two legs of the U-shaped member may be pressed against the opposed sides of the tubular member for adjusting the angularity of the tubular member with respect to the vertical, the upper end of the tubular member being adapted to receive the butt end of a fishing rod, the U-shaped member also having a cross portion intermediate its ends also penetrated by said first-named pin, and the first-named pin having removable securing means on its upper end.

2,529,149
HAIR BLOCKING PATTERN
Jack C. Fred, Atlanta, Ga.
Application September 8, 1949, Serial No. 114,513
1 Claim. (Cl. 132—45)



A pattern for use in curling hair comprising a substantially T-shaped flexible member formed with spaced slits along the head thereof and with spaced slits extending transversely along the stem thereof, the head of said member being adapted to be positioned across the front of the head of the user and the stem of said member extending rearwardly over the top of the head of the user and terminating at the back thereof, and a pair of elongated transversely slitted strips positionable along side of said stem, the slits of said T-shaped member and of said pair of strips having groups of hair extended therethrough for forming into curls on the outer sides of said T-shaped member and said strips.

2,529,150
COMBINED CIGARETTE CASE AND LIGHTER
Alfred Francis Fukal, Cambridge, Ohio, assignor to Franklin Sales & Manufacturers, Inc., Columbus, Ohio
Application October 15, 1946, Serial No. 703,313
1 Claim. (Cl. 67—7.1)



A combined cigarette lighter and closure for a cigarette case comprising a housing having a

stepped top wall forming a depressed portion defining a combustion chamber, a fuel chamber underlying said top wall, a wick in said fuel chamber having an end thereof extending through said depressed portion of said top wall and into said combustion chamber, said housing including a thickened side wall formed with a bore extending therealong, an abrading wheel rotatably carried by said housing adjacent said wick end for rotation in a plane parallel to said top wall, said wheel confronting an end of said bore and extending outwardly through said side wall, a pyrophoric element in said bore extending out of said end of the latter and engaging said wheel, spring means in said bore constantly urging said pyrophoric element against said wheel, a bore in said stepped top wall opening through the vertical portion thereof, a beveled edge on the mouth of said last mentioned bore, a cover for said combustion chamber having an end pivotally mounted on said top wall adjacent said vertical portion of the latter, a double cam surface having a projecting point to afford an over center snap action formed on said end of said cover, a spring urged headed pin in said second bore engaging said cam surface for holding said cover in either the open or closed position thereof, the head of said pin being beveled in conformity to the mouth of said bore, the end wall of said cover opposite the stepped portion thereof having a threaded fuel opening therein, and a threaded closure for said opening.

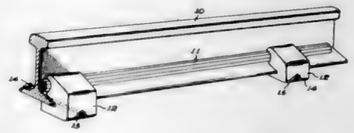
2,529,151
DUAL IMAGE PHOTOGRAPH
Marvin I. Glass and Charles L. McShane, Chicago, Ill.
Application July 20, 1950, Serial No. 174,864
2 Claims. (Cl. 40—137)

1. A photograph mount of such size as to be carried in a person's pocket comprising front and rear members connected together, said front member comprising a translucent panel having imprinted on the front face thereof an image in tones of one color and having imprinted on the back face thereof an image in contrasting colors as related to said first image, said rear member comprising an opaque panel adapted to be selectively positioned contiguous to the back face of said translucent panel, said opaque panel when positioned contiguous to said back face rendering said one color image effective so that it appears as a conventional photograph, said opaque panel when positioned away from said back face so that the same may be viewed in transmitted light rendering said color image effective so that it appears as a conventional color photograph while rendering said single color image ineffective, said front and rear members when spaced from each other form a means for supporting such mount on a horizontal surface.

2,529,152
PROCESS FOR EXTRACTION OF INSULIN
Reginald Lindsay Grant, London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 6, 1946, Serial No. 714,657. In Great Britain April 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 12, 1963
5 Claims. (Cl. 167—75)

1. In the manufacture of insulin, the process comprising acidifying an aqueous-alcoholic extract of pancreas gland containing from 60 to 70% by weight of alcohol, reducing the alcoholic strength of the extract to about 20 to 40% by weight of alcohol, adjusting the pH of the extract to about 4 to 6, separating from the extract a fat-like fraction which is no longer soluble therein under the conditions specified, and further treating the remaining liquor to recover insulin and alcohol therefrom.

2,529,153
CABLE CLAMP
Max Hain, Pittsburgh, Pa.
Application June 26, 1945, Serial No. 601,699
3 Claims. (Cl. 238—14.14)



2. A rail bond for holding an electrical cable in an angle formed at the intersection of the base and the web of a track rail, comprising hook-shaped members extending around opposite edges of the rail base, a connecting member to extend beneath the rail, and a screw-threaded device on the connecting member, for drawing one of the hook-shaped members into gripping engagement with one edge of the rail base, and the other toward the rail web, one of the hook members having an extension thereon of block-like form in which there is a curved recess positioned to partly embrace the cable and press it into said angle, when said other hook member is drawn toward the rail base.

2,529,154
HEATING SYSTEM
Eugene H. Hammond, Berwyn, and George D. Wetherbee, Chicago, Ill.; said Wetherbee assignor to said Hammond
Application December 30, 1947, Serial No. 794,722
11 Claims. (Cl. 237—1)

5. A heating system for an enclosed space comprising a first heat exchanger disposed in the earth outside the space, a second heat exchanger disposed inside said space, heat transfer means connecting said first and second heat exchangers for extracting heat from the earth at relatively low temperatures by means of said first heat exchanger and for supplying heat at relatively high temperatures to said second heat exchanger, an atmospheric heat absorber exposed to the atmosphere outside said space, a third heat exchanger disposed in the earth in thermal proximity to said second heat exchanger, and heat transfer means for supplying heat from said heat absorber to said third heat exchanger when the temperature within said heat absorber is greater than a predetermined minimum, whereby heat from said heat absorber is supplied to the soil

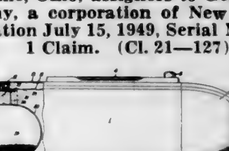
through said third heat exchanger and thence to said first heat exchanger to increase heat transfer to said space.

2,529,155
METHOD OF AND MEANS FOR REMOVING CONTAMINATION FROM AN ATMOSPHERE CONTROLLED FURNACE
Walter C. Hasselhorn, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application April 10, 1946, Serial No. 661,026
11 Claims. (Cl. 263—40)

8. In a process of maintaining a purified atmosphere within a furnace having a heating and cooling chamber adjoining each other including the steps of generating an atmosphere, conducting a portion of such atmosphere above atmospheric pressure to a decontaminating unit, extracting the furnace atmosphere from the cooling chamber and conducting it into the decontaminating unit along with such portion of such atmosphere, purifying the combined generated atmosphere and furnace atmosphere in the decontaminating unit, and conducting the decontaminated atmosphere to the cooling chamber, the improvement comprising, supplying a portion of the atmosphere from such generating unit above atmospheric pressure to the heating chamber adjacent its entrance, extracting the atmosphere from such cooling chamber adjacent the position of maximum contamination, and conducting such decontaminated atmosphere to such cooling chamber at a position relatively remote from the position of maximum contamination.

2,529,156
LETTERING PEN
Earle G. Henry, Wilmette, Ill.
Application May 15, 1946, Serial No. 669,734
8 Claims. (Cl. 120—114)

2. In combination, a pen having flexible nibs, a lid, said lid having at one end elements lying on opposite sides of the nibs to limit the spread of the nibs and having at the other end a pintle extending transversely of the pen, the pen having in opposite sides holes forming bearings for the ends of the pintle, and said pintle having end portions of uniform width and being curved in the arc of a circle that has its center midway between the said elements to allow the lid to swing about said center and a fixed point that registers with

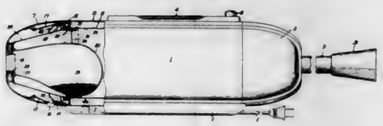


the latter, in case the pen is substantially wider than the hinged end of the lid, and thus maintain the proper relation of said elements with the nibs regardless of the width of the pen, and spring means yieldingly to hold the lid down.

2,529,157
ROUTING TOOL
Robert J. Higerd, Latrobe, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania
Application March 31, 1949, Serial No. 84,717
1 Claim. (Cl. 29—103)

A routing tool unit comprising the combination of an elongated bar having a plurality of cutting edges symmetrically arranged about the axis of the bar, a tool holder having means at one end for attaching it to a rotating power source and a chuck at the other end for securing the bar, and cooperating means on said chuck and bar for holding said bar fixed with respect to said holder with the axis of the bar parallel to and disposed laterally from the axis of rotation of the holder and with one cutting edge in cutting position, whereby when said cutting edge becomes dull the bar may be positioned with another cutting edge in cutting position.

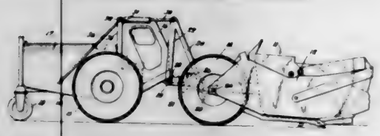
2,529,158
SUCTION CLEANER DEMOTHER
James P. Hunter, Eastlake, and Allen P. Cawl, Painesville, Ohio, assignors to General Electric Company, a corporation of New York
Application July 15, 1949, Serial No. 105,022
1 Claim. (Cl. 21—127)



For use in a suction cleaner of the tank type having means defining intake and exhaust ports, a power-driven fan for forcing air through the cleaner, a removable end cap for the cleaner, and means for clamping a bag within the cleaner with its open mouth in alignment with the intake port, that improvement which comprises a bag of flexible porous material for containing a compound to be vaporized by the flow of air through the cleaner, said bag comprising a

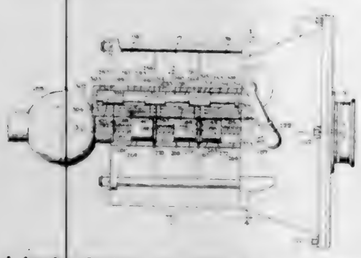
wide mouth portion for engagement by said clamping means, a narrow neck portion closely surrounding said intake port to concentrate the flow of air into said bag into a blast, and an enlarged closed end portion for containing the compound, said clamping means constituting the sole support of said bag within the cleaner whereby said compound is agitated by flow of air through the cleaner.

2,529,159
EARTH-MOVING EQUIPMENT
Loiell L. Hyler, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application October 24, 1946, Serial No. 705,353
12 Claims. (Cl. 280—33.13)



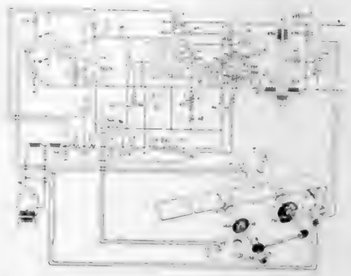
1. The combination with a wheel-type pusher-tractor and an earth-moving vehicle, of means pivotally mounted on said tractor and extending forwardly thereof for engaging a rear portion of said vehicle upon approach of said tractor thereto, means responsive to pivotal movement of said means upon further approach of said tractor after initial engagement with said vehicle for locking said means to said vehicle in pushing relation thereto, and hydraulic ram means on said tractor for operating said pivotally mounted means after locking thereof to elevate the rear wheels of said vehicle and transfer to the traction wheels of said tractor the load normally supported on said rear wheels.

2,529,160
HYDRAULIC TRANSMISSION CONTROL
Albert L. Johnson, St. Paul, Minn., and Selmer A. Kraft, Milwaukee, Wis., assignors to Johnson Power-On Transmission Corporation, St. Paul, Minn., a corporation of Minnesota
Original application May 13, 1943, Serial No. 486,809. Divided and this application January 19, 1945, Serial No. 573,475
13 Claims. (Cl. 192—12)



1. A brake device comprising a rotor, projectable vane means carried by said rotor, a casing having a cam-shaped inner casing wall, plunger means normally engaging said vane means to hold said vane means locked from outward movement with respect to said rotor, said plunger means being retractable, hydraulic means for retracting said plunger means, said rotor having a passage therethrough which is normally closed by said plunger means, and which is operable upon retraction of said plunger means to convey hydraulic pressure interiorly of said vane means to urge said vane means outwardly.

2,529,161
REGISTER CONTROL SYSTEM
Leroy U. C. Kelling and Lowell H. Sheets, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application April 30, 1948, Serial No. 24,154
3 Claims. (Cl. 250—27)

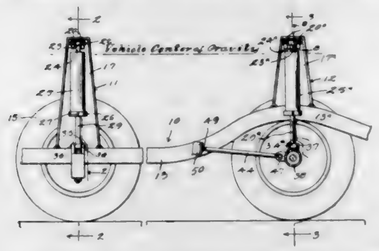


1. A control system comprising a source of direct voltage, a first electric valve having an anode, a cathode and a control grid and having its anode-cathode circuit connected to be supplied from said source, means for producing a voltage pulse, means for producing another voltage pulse, means responsive to the overlapping in time of said pulses for producing a control voltage pulse, a direct conductor connection from said control voltage pulse producing means to said grid for supplying said control voltage pulse to said grid to initiate conduction of said valve, and means for maintaining said valve conducting for a predetermined fixed interval of time comprising a normally conducting second electric valve provided with an anode, a cathode and a control grid and having its anode-cathode circuit connected to be supplied from said source, a connection including a capacitor from the anode of said first valve to the grid of said second valve for rendering said second valve nonconducting in response to initiation of conduction in said first valve, a timing circuit including said capacitor for maintaining said second valve nonconducting for said predetermined interval of time, and a connection from the anode of said second valve to the grid of said first valve for maintaining said first valve conducting for said interval of time and for rendering said first valve nonconducting at the end of said interval.

2,529,162
VEHICLE SUSPENSION SYSTEM
Kenneth B. Kier, Middletown, Pa.
Application November 26, 1948, Serial No. 61,990
2 Claims. (Cl. 280—124)

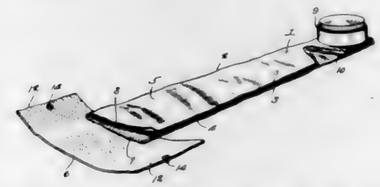
1. In a vehicle suspension unit, a mounting standard fixed to and rising from a side member of a vehicle frame or chassis, a connecting member formed of telescopic sections pivotally connected to the standard adjacent its upper end and having a lower end pivotally connected to a wheel mounting of the vehicle, and spring means for yieldably urging said telescoping sections toward extended positions for yieldably supporting a portion of the frame or chassis relatively to an adjacent ground wheel, said connecting member

including a cylinder having a closed upper end provided with an extension pivotally connected to the standard, a detachable closure for the lower, opposite end of said cylinder having a central guide opening, said cylinder forming one of the telescoping sections, a rod forming the other telescoping section extending reciprocally



through the closure opening and having a head on its upper end slidably engaging in the cylinder, said spring means comprising a contractile coiled spring disposed in the lower portion of the cylinder having its upper end anchored to said head and its lower end anchored to the closure.

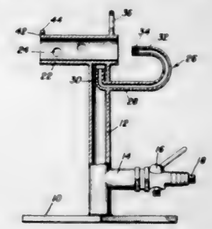
2,529,163
SHOE POLISHING KIT
Frank W. Knight, Somerville, Mass.
Application November 28, 1944, Serial No. 565,485
1 Claim. (Cl. 15—258)



A shoe treating kit comprising an elongated flexible polishing tongue folded upon itself along its longitudinal center line to define an outer wall and an inner wall overlying said outer wall, a short free-ended flexible wrapper stitched intermediate its ends along one of its longitudinal edges to one end of the outer wall and having its ends projecting laterally beyond the tongue to define laterally projected cover flaps, the other longitudinal edge of the wrapper being disposed beyond said end of the outer wall, the corresponding end portion of the inner wall being free from the wrapper to permit unfolding of the tongue to its original area, the folds of the tongue providing a pocket to receive an article therebetween, said tongue adapted to be folded upon itself along lines disposed perpendicular to its longitudinal center line to partially enclose said article, and said flaps adapted to be extended around the folded tongue to completely enclose said article and prevent unfolding of the tongue.

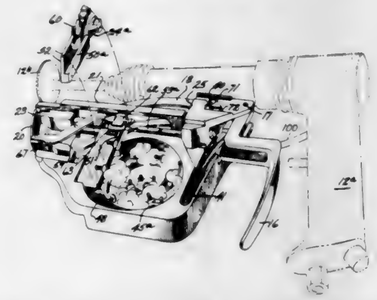
2,529,164
GAS BLOWTORCH
Wilbur F. Knipe, Lubbock, Tex.
Application July 10, 1947, Serial No. 760,006
1 Claim. (Cl. 126—237)

A gas blow torch comprising a substantially rectangular base plate, a tubular post fixed to the center of said base plate, a perforated burner sleeve fixed to and closing the upper end of said post, an inlet conduit fixed to said post, said sleeve and said inlet conduit aligning diametrically opposite corners of said base plate, a substantially U-shaped conduit having an elongated leg fixed to said post adjacent said sleeve, the



inner end of the elongated leg being turned upwardly within the post and spaced from the burner sleeve, the remaining leg of said U-shaped conduit terminating adjacent the burner sleeve and supporting a spray nozzle, and means carried by the burner sleeve for supporting a soldering iron, said U-shaped conduit aligning the inlet conduit.

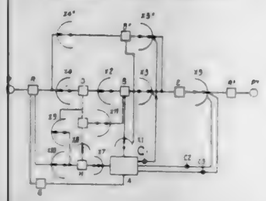
2,529,165
RIVET FEEDING DEVICE
Talbot R. Knowles, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application July 5, 1945, Serial No. 603,314
15 Claims. (Cl. 78—48)



2. The combination with a pneumatic fastener-driving tool including a barrel, a member operating on the axial line of the barrel to drive the fasteners, and a member controlling the admission of air under pressure to said operating member, of: a casing associated with the barrel; a member supported in said casing for reciprocating movement towards the operating face of said operating member; means in the casing for urging fasteners stem-first to a position sub-adjacent said face and transferring them in said attitude from said positon to said face; means operatively connecting said transferring means and said reciprocable member to permit manual movement of said transfer member to effect reciprocation of the reciprocating member, said transfer means including a portion for operating said air control; a chamber in said casing for containing a supply of fasteners, said chamber having an exit path on its periphery for said fasteners, means connected at one end to the air

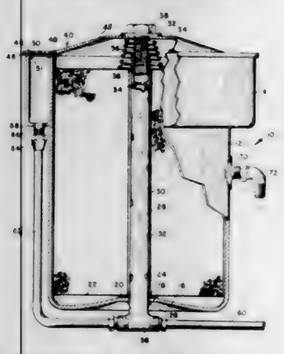
pressure and tangentially intersecting the periphery of said chamber at the other end for imparting circular motion with a substantial centrifugal component to the fasteners in said container so as to effect exit of fasteners along said path; means in said path for accepting and guiding fasteners presented shank-forwardly thereto; means in said guiding means for accumulating fasteners shank-forward therein; and means for transferring one of such fasteners at a time to a position in front of a portion of said reciprocating member for delivery to said transferring member.

2,529,166
AUTOMATIC SWITCHING SYSTEM APPLICABLE TO TELEGRAPHY
Henri Louis Lesigne, Vanves, France
Application March 16, 1946, Serial No. 654,845
In France March 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 31, 1963
1 Claim. (Cl. 178—2)



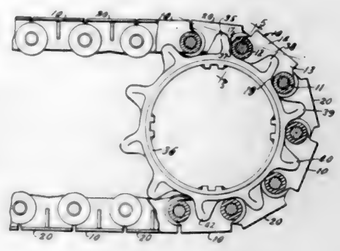
In a telegraph system, a telegraph line, a plurality of telegraph stations, means including at least one connecting circuit and at least one recorder for transmitting communications between said stations over said system, an automatic switching system including a supervising relay with a shunted magnetic field for indicating the direction of current in the constituent elements of said telegraphic system and a call relay having a circuit including a rectifier and a resistor to permit passage of current over said telegraphic line in one direction only.

2,529,167
LEAKPROOF OIL FILTER
Felix Lewis and James Shuler, Savannah, Ga.
Application April 26, 1946, Serial No. 665,154
1 Claim. (Cl. 210—183)



A filter, comprising a shell having a concave bottom, a raised apertured circular portion centrally of the bottom, a washer on said portion, a drainage pipe having a plurality of perforations therein passing through the apertured circular portion and fixed to the shell outwardly of the bottom thereof, an oil filter element over the drainage pipe within the shell, and engaging the circular portion in the bottom thereof, an annular circular portion formed on said shell adjacent the open top thereof, a removable cover for said shell and said annular circular portion, means engaging the upper rims of said shell and said annular circular portion and said cover for sealing the said shell and annular circular portion, a partition in the pipe, threads in said pipe above said partition, a bolt passing through said cover to engage the threads of said pipe to retain said cover in place, a spring interposed between said cover and said filter element and about said bolt and the upper end of said pipe to retain said filter element fixed in said shell, a T-shaped head on the lower end of said drainage pipe, an over flow pipe connecting the annular circular portion with the T-head on the drainage pipe and means for connecting the shell to an outlet pipe from the oil system of the engine.

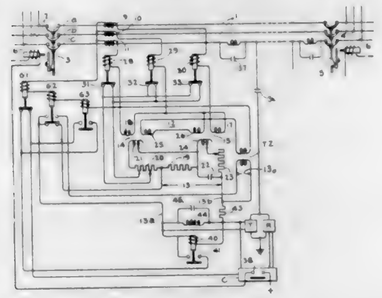
2,529,168
CONVEYER CHAIN
Joseph K. Marshall, Chesterton, and Carl Nygren, Michigan City, Ind., assignors to Michiana Products Corporation, a corporation of Indiana
Application October 8, 1948, Serial No. 53,506
3 Claims. (Cl. 198—189)



1. A conveyor chain for use with a conventional sprocket of uniform pitch, said chain comprising cast center links and cast side links, said center and side links alternating in sequence and being articulated together, the pitch of the center links being greater than that of the side links and the sum of the pitches of a pair of consecutive links being greater twice the pitch of the sprocket.

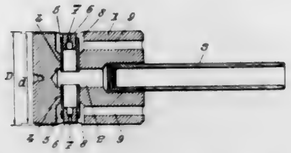
2,529,169
ELECTRIC PROTECTIVE SYSTEM
Andrew J. McConnell, Delmar, N. Y., assignor to General Electric Company, a corporation of New York
Application October 29, 1949, Serial No. 124,391
3 Claims. (Cl. 175—294)

1. A protective arrangement for a polyphase circuit comprising a network having a first output circuit across which a single phase quantity is produced in response to predetermined fault conditions in said polyphase circuit and a second output circuit across which a single phase quantity is produced in response to fault conditions other than said predetermined fault conditions in said polyphase circuit, control means normally connected to respond to the first output circuit, and means responsive to the single phase quantity produced across the second output circuit for disconnecting the first output circuit from said control means and for connecting the second output circuit to said control means when the



single phase quantity produced across the second output circuit exceeds a predetermined value.

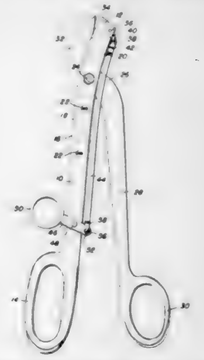
2,529,170
PNEUMATIC MICROMETRY PLUG GAUGE
Marcel Mennesson, Neuilly-sur-Seine, France, assignor to Societe Anonyme de Construction de Materiel Automobile (S. A. C. M. A.), Neuilly-sur-Seine, France, a society of France
Application December 18, 1946, Serial No. 716,980
In France June 6, 1946
5 Claims. (Cl. 73—37.5)



1. A pneumatic micrometry plug gauge for measuring the inner dimension of a hollow space in a piece which comprises, in combination, a guide plug body of very hard metal having its outer wall adapted to fit in said space and provided with a conduit for feeding a gaseous fluid under pressure to the inside of said body and at least one passage extending between said conduit and said wall, a tubular support of a softer metal fitted in said passage, said tubular support being of a metal having substantially the same coefficient of expansion as that of the piece, and a nozzle of a very hard metal fitted at the peripheral end of said tubular support, the outer face of said nozzle being sunk with respect to said wall.

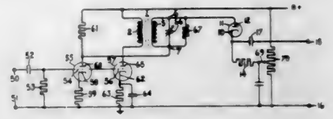
2,529,171
METAL-CUTTING SHEARS
Henry E. Menser, Crofton, Ky., assignor of thirty-three and one-third per cent to Charlie Huddleston, St. Charles, Ky.
Application January 27, 1948, Serial No. 4,661
5 Claims. (Cl. 30—258)

1. Metal cutting shears comprising a fixed shank bifurcated at one end, a movable shank pivoted at one end between the bifurcated end of said fixed shank, a cutting member carried by said movable shank for movement into and out of position in the bifurcated end of said fixed shank, means positioned between the furcations of said bifurcated end for spreading the furcations of said fixed shank, and means carried by one of said shanks for actuating said spreading means, said actuating means including a lever



pivoted on said fixed shank and having a finger grip.

2,529,172
PULSE DISCRIMINATING CIRCUITS
Robert E. Moe, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application December 30, 1948, Serial No. 68,364
5 Claims. (Cl. 178—7.3)

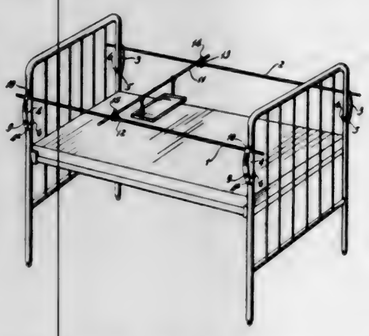


3. In a television system, a circuit for discriminating between frame synchronizing pulses of a predetermined time-duration and line synchronizing pulses of shorter time-duration, comprising a pair of electron discharge devices each having an anode, a control electrode and a cathode, a source of operating potential for said devices, a differentiating circuit for simultaneously applying a voltage, proportional to the rate of change of said pulses, to both said control electrodes, a transformer having primary and secondary windings, said primary winding being serially connected in circuit between the anode and cathode of one of said devices, said secondary winding having a pair of terminals, means for tuning said windings so that the three-quarter period of the transient oscillation produced therein by said pulses is equal to said predetermined time-duration, a peak detector circuit, said secondary winding having one of its terminals connected to the anode of said other device and the other of its terminals connected to the cathode of said other device through said peak detector circuit, said peak detector circuit being biased to respond only to voltages exceeding a predetermined amplitude.

2,529,173
HANDRAIL ATTACHMENT FOR BEDS
Wilmer L. Moyer and John C. Deck, Findlay, Ohio; L. Shirl Hatfield, administrator of said John C. Deck, deceased, assignor to said Moyer
Application August 24, 1948, Serial No. 45,938
7 Claims. (Cl. 5—331)

1. In an attachment for a bed, the combination of duplicate companion clamp means for engag-

ing the upright posts of a bedstead, housing means within which said clamp means are rockably mounted for movement into and out of operative position, a rail having its end portions supportedly engaged within said housing means and



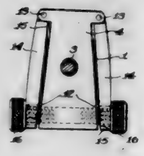
adapted to extend along the bedstead and between the posts thereof, and means mounted in each of said housings in operative relation to said clamping means for effecting movement of the same into and out of engagement with the posts of the bedstead.

2,529,174

MATRIX HOLDER FOR DENTAL ATTENDANCE

Josef Müller, Fribourg, Switzerland

Application February 21, 1947, Serial No. 730,146
In Switzerland August 5, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires August 5, 1962
5 Claims. (Cl. 32—63)



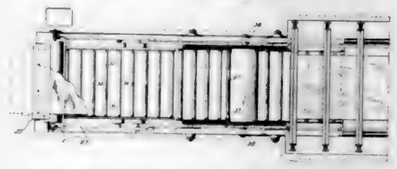
1. In a matrix holder for dental attendance, the combination of a middle member; a screw adjustably engaging the middle member; a supporting plate mounted on said screw and having a supporting surface for engaging against a tooth to be treated, said supporting plate also having a pair of slanting slots closed at both ends and spaced apart with the distance between them decreasing from one end portion of said supporting surface toward the opposite end portion thereof, in order to adapt a matrix band to the conicity of the tooth to be treated when said matrix band is drawn through said slanting slots; clamping levers rotatably mounted on said middle member to revolve about axes substantially parallel to the axis of said screw; and tightening means engaging said clamping levers and said middle member in order to clamp fast the portions of the matrix band extending between said middle member and said clamping levers and extending with its entire width between said tightening means and the axes upon which said clamping levers revolve.

2,529,175

APPARATUS FOR TEXTURING ASBESTOS-CEMENT SHEETS

William L. Nelson, Ferguson, Mo., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application March 9, 1946, Serial No. 653,359
5 Claims. (Cl. 25—42)



1. A machine for impressing a design into the surface of a plastic impressionable sheet of material which comprises a belt conveyor for said sheet, a die suspended above said belt, a spring-biased pressure-imparting roller mounted for reciprocal movement beneath said belt and adapted to press said belt and the thereupon supported sheet against said die, and means for reciprocally moving said roller.

2,529,176

BINDING WIRE CLIP

James K. Newell, Jr., Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application August 31, 1949, Serial No. 113,345
2 Claims. (Cl. 171—252)

1. In a dynamoelectric machine the combination of a binding band for the rotor of said machine, said band comprising a plurality of closely-spaced tightly-wound turns of binding wire arranged to be maintained in clamping engagement with the windings of said rotor, and a binding clip to secure the ends of said wire relative to said band, said clip being formed of a strip of a bendable material, said strip being interwoven with said turns in a direction normal thereto to form interlocking engagement therewith and arranged to link the end turns forming the extremities of said band and including the ends of said wire, the extremities of said strip being fastened together to form a closed member, and the ends of said wire being bent against said clip to form interlocking engagement therewith.

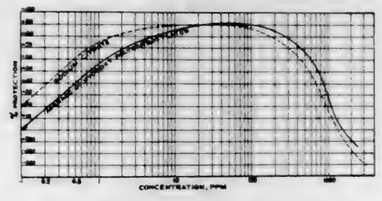
2,529,177

CORROSION AND TUBERCULATION INHIBITION IN WATER SYSTEMS

William L. Nieland, Downers Grove, Ill., and John J. Maguire, Elkins Park, Charles B. George, Philadelphia, and Harry L. Kahler, Feasterville, Pa., assignors to W. H. and L. D. Betz, Philadelphia, Pa., a firm

Application December 6, 1947, Serial No. 790,087
10 Claims. (Cl. 210—23)

1. The method of inhibiting water-side metallic corrosion in a water system which comprises the steps of flowing the water through a metal pipe or other container, and adding to the water in the system a hydroxy polycarboxylate having no more



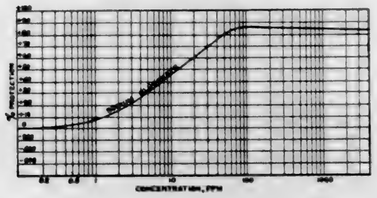
than six carbon atoms to form a concentration in the water of about from .1 to 100 P. P. M.

2,529,178

METHOD FOR OBTAINING CORROSION AND TUBERCULATION INHIBITION IN WATER SYSTEMS

William L. Nieland, Downers Grove, Ill., and John J. Maguire, Elkins Park, Charles B. George, Philadelphia, and Harry L. Kahler, Feasterville, Pa., assignors to W. H. and L. D. Betz, Philadelphia, Pa., a firm

Application December 6, 1947, Serial No. 790,088
7 Claims. (Cl. 210—23)



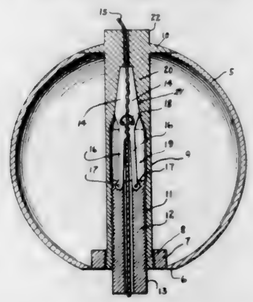
1. The method of inhibiting water-side metallic corrosion in a water system which comprises the steps of flowing the water through a metal pipe or other container, and adding to the water in the system a gluconate to form a concentration in the water of about from .1 to 100 P. P. M.

2,529,179

CASTING FLOAT FOR RODS AND REELS

Grant E. Oberholtzer, Fitchburg, Mass.

Application November 15, 1946, Serial No. 710,193
2 Claims. (Cl. 43—44.91)



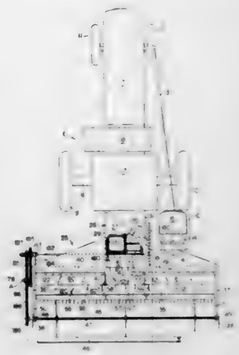
1. A casting float of the class described comprising a hollow ball having a centrally located open-ended tube for passage of the fishing line, said tube being internally screw-threaded, a screw-threaded bushing threaded into the internal screw threads of said tube, said bushing having its outer end exposed and formed into a finger-grip, and a pair of line-clamping jaws hingedly connected to the inner end of said bushing, a weight-forming and tube-anchoring nut mounted in said float and defining the normal bottom of the float, one end portion of said tube being anchored in said nut and spring means for spreading the jaws normally apart, said tube having a tapered bore in the upper end thereof for coaction with the jaws in a manner to close same and secure the fishing line therebetween.

2,529,180

HARVESTING MECHANISM

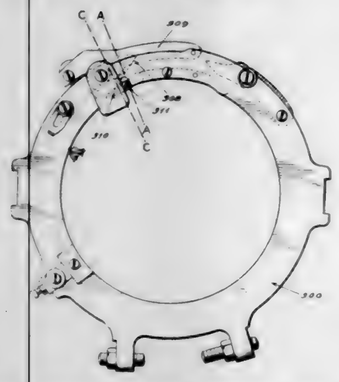
Alvin W. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 2, 1946, Serial No. 687,875
20 Claims. (Cl. 198—104)



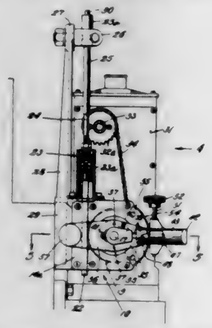
1. In a harvester including a body housing provided with a crop-receiving opening through which crops may be fed in a defined path, and a crop-receiving platform in advance of the opening and of elongated construction and disposed transversely to said path of crop feeding so as to extend across the opening as well as laterally to one side thereof, the improvement residing in conveying and feeding means for moving crops lengthwise of the platform to the opening and then feeding such crops along said path and through said opening, said means comprising: an elongated tubular member rotatably supported on and extending lengthwise over the platform and in advance of said opening; a helical auger blade fixed on said member and wound to move crops lengthwise on said platform toward said opening; a plurality of crop-engaging elements movably mounted for extension and retraction on that portion of said tubular member directly in advance of said opening; and means controlling said elements and operative in response to rotation of said tubular member for extending said elements in advance of said tubular member into engagement with crops on said platform for sweeping such crops along the aforesaid path of crop feeding toward said opening and for retracting said elements behind said tubular member to disengage said elements from the crops being fed thereby toward said opening.

2,529,181
SINKER CAM MECHANISM FOR CIRCULAR KNITTING MACHINES AND METHOD OF OPERATING A CIRCULAR KNITTING MACHINE
Frank R. Page, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application April 25, 1947, Serial No. 743,870
9 Claims. (Cl. 66—108)



1. In a circular knitting machine having independent latch needles and sinkers, control means for the sinkers comprising a cam at the cast-off point to press the sinkers in and an adjustable cam opposite it boxing the sinkers in at that point to prevent overthrow, in combination with a movable secondary cast-off cam following and spaced from the cast-off point to push all the sinkers in an extra depth, and resilient means adapted to press the secondary cam inwardly, for the purpose described.

2,529,182
COMBINED REMOTE AND PROXIMAL CONTROL DEVICE
Erwin J. Panish, Bridgeport, Conn.
Application April 23, 1946, Serial No. 664,408
28 Claims. (Cl. 192—.096)

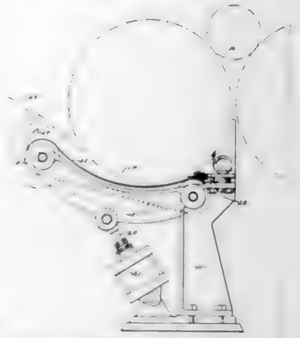


1. For use with a prime mover having a clutch and having a variable speed-control member, a combined remote and proximal control device comprising a maually operable instrumentality located at a point remote from the engine and connected to operate the clutch and the speed-control member of the engine; manually operable means located at the engine for selectively rendering the said instrumentality operative or inoperative to control the clutch, the latter being thereby made respectively operable with or operable independently of the instrumentality; and manually operable means located at the engine for selectively rendering the said instrumentality operative or inoperative to control the speed-control member, thereby to enable the latter to be operated respectively from said remote point or at the engine independently of the instrumentality.

2,529,183
UNEQUAL LENGTH FOLD TAMPON
Frank P. Parish, Taneytown, Md., assignor to Sanitary Products Corporation, Taneytown, Md., a corporation of Illinois
Application July 26, 1949, Serial No. 106,844
8 Claims. (Cl. 128—285)

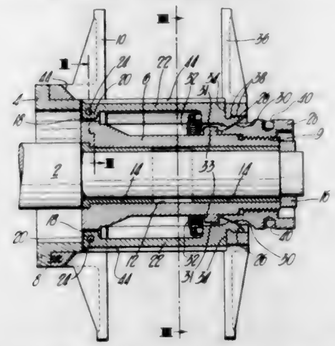
1. A tampon formed of a strip of absorbent material folded in unequal lengths and compressed to cylindrical form, and a soluble coating applied to the tip of the longer length of the fold.

2,529,184
WEB THREADER FOR WINDER MACHINES
Charles M. Pearson, Watertown, N. Y., assignor to The Bagley & Sewall Company, Watertown, N. Y., a corporation of New York
Application September 15, 1949, Serial No. 115,939
5 Claims. (Cl. 271—2.1)



3. A web threading device for drum winders comprising a frame, a pair of rolls journalled in the frame in parallel spaced relation and with the axis of said rolls extending parallel to the axis of the winder drum, an endless belt trained over said rolls, a support positioned intermediate said rolls for supporting the lower run of the belt and maintaining the upper run of the belt slack and out of engagement with the surface of the winder drum, power means operable to move at least one of said rolls toward the drum to bring a portion of the upper slack run of the belt into engagement with the periphery of the drum, said belt being driven by such engagement and operable to feed a web about the periphery of the drum.

2,529,185
COLLAPSIBLE TAKE-UP SPOOL
Homer G. Proctor, Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application November 21, 1946, Serial No. 711,275
8 Claims. (Cl. 242—111)

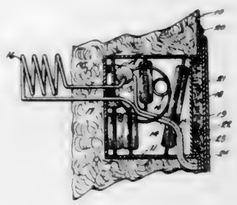


1. A collapsible take-up spool for coiling wire comprising a rotatable hub portion, said hub portion being free at one end, the said free end being threaded, a flange at the other end of said hub, a plurality of barrel segments pivotally mounted on the end of the hub portion having the flange thereon, said barrel segments being closely spaced so as to form a substantially cylindrical surface for supporting the wire, a wedge surface on the inner side of the free end of the barrel segments, a nut threaded on said hub portion and extending within the free ends of the barrel segments, a wedge surface on said nut cooperating with said wedge surfaces of the barrel segments to move them outwardly, and a cover plate positioned over the free ends of said barrel segments, the inside diameter of said cover plate being greater than the outside diameter of the nut, the outer surfaces of the barrel segments and the inner surface of the cover plate having complementary surfaces thereon for locking the barrel segments and cover plate together when the nut forces the barrel segments outwardly.

2,529,186
PREPARATION OF CINNAMALDEHYDE
Henry H. Richmond, Guelph, Ontario, Canada, assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 5, 1947, Serial No. 739,661
3 Claims. (Cl. 260—599)

1. A method for preparing cinnamaldehyde which consists in heating a mixture of benzaldehyde and aqueous alkali solution of a concentration of from 0.23 to 0.6% by weight at a temperature of from 60 to 80° C. while gradually adding thereto acetaldehyde over a period of time of from one hour to two hours, the amount of benzaldehyde exceeding that molecularly equivalent to the total acetaldehyde employed, thereafter heating the resulting mixture at the same temperature for a period of time of from thirty minutes to three hours, agitating the mixture throughout said heating steps, maintaining the pH of the reaction mixture at from 8.0 to 12 throughout said heating steps, maintaining a molecular excess of benzaldehyde over acetaldehyde in the reaction mixture throughout said heating steps, and recovering cinnamaldehyde from the resulting reaction mixture.

2,529,187
CAVITY INSULATOR
Carl H. Ripatte, Oxnard, Calif.
Application March 3, 1949, Serial No. 79,407
4 Claims. (Cl. 62—89)



1. The combination with a refrigerator cabinet having a cavity and refrigerating components and tubing therefor disposed within the cavity, of a moisture proof and pliable sack having a quantity of insulation material contained therein and a flange like peripheral portion, means including a dish-shaped cover plate for securing peripheral portion of the sack to the cabinet in moisture sealing relation with respect to the mouth of said cavity therein, and a plurality of insulation filled moisture-proof and pliable sacks disposed around and about said components and tubing and filling the free space within the cavity.

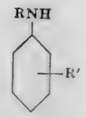
2,529,188
LUBRICATING METAL SURFACES DURING COLD-WORKING
Albert G. Rocchini, Springdale, and Richard J. Neely, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 7, 1948, Serial No. 19,645
8 Claims. (Cl. 252—58)

1. A metal finishing process which comprises cold working a metal while maintaining on the surfaces of said metal a film of lubricant consisting essentially of a petroleum lubricating oil which would normally tend to stain said metal surfaces during the annealing thereof and a chlorinated hydrocarbon boiling above about 100° C., said chlorinated hydrocarbon being present in an amount sufficient to produce a chlorine content in the film of lubricant between about 0.01 and 1.0 per cent by weight, and, without removing the film of lubricant from the surfaces of the cold-worked metal, annealing said cold-worked metal.

2,529,189
LUBRICATING METAL SURFACES DURING COLD WORKING
Albert G. Rocchini, Springdale, and Richard J. Neely, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 7, 1948, Serial No. 19,646
8 Claims. (Cl. 252—50)

1. A metal finishing process which comprises cold working a metal while maintaining on the surfaces of said metal a film of lubricant consisting essentially of a petroleum lubricating oil which would normally tend to stain said metal

surfaces during the annealing thereof and between about 1.0 and 10.0 per cent by weight of an aniline derivative represented by the structural formula:



wherein R is a substituent selected from the class consisting of a benzyl group and hydrogen and R' is selected from the class consisting of methoxy and ethoxy groups, and, without removing the film of lubricant from the surfaces of the cold-worked metal, annealing said cold-worked metal.

2,529,190
LUBRICATING METAL SURFACES DURING COLD WORKING
Albert G. Rocchini, Springdale, and Richard J. Neely, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 7, 1948, Serial No. 19,647
4 Claims. (Cl. 252—49.8)

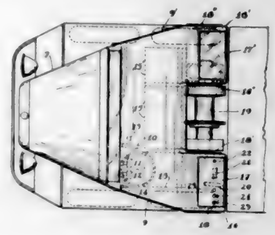
1. In cold working a metal subsequently to be annealed, the improvement which comprises lubricating the surfaces of the metal being worked by establishing and maintaining thereon a film of lubricant comprising a petroleum lubricating oil which would normally tend to stain said metal surfaces during annealing thereof and between about 0.01 and 1.0 per cent by weight of a chlorophenyl phosphate selected from the group consisting of diphenyl mono(ortho-chlorophenyl)-phosphate and diphenyl mono(para-chlorophenyl) phosphate.

2,529,191
COLD-WORKING LUBRICANT AND LUBRICATING METAL SURFACES THEREWITH
Albert G. Rocchini, Springdale, and Richard J. Neely, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application April 7, 1948, Serial No. 19,648
2 Claims. (Cl. 252—59)

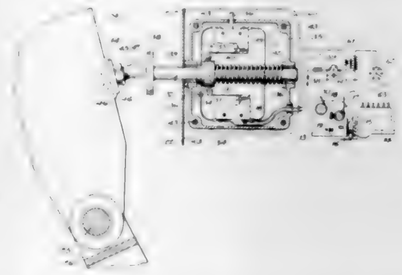
1. An improved cold-working lubricant comprising a petroleum lubricating oil normally tending to stain metals during the annealing thereof and 0.5 to 8.0 per cent by weight of triisopropyl toluene.

2,529,192
MOTOR POWERED VEHICLE CAB
Emery Rossner, Brooklyn, N. Y., assignor to Milford Crane & Machine Co., Milford, Conn., a corporation of Connecticut
Application September 20, 1945, Serial No. 617,648
3 Claims. (Cl. 180—89)

3. A cab for an automotive vehicle comprising walls forming a main compartment for the installation of vehicle control mechanism and having a front window and side windows and other walls extending rearwardly from the side walls of the main compartment at each side thereof and at each side of the central portion thereof to form auxiliary compartments and leaving a well between the auxiliary compartments for installation of auxiliary power equipment and having windows at the sides and rear of the auxiliary compartments.

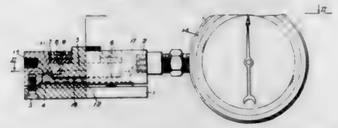


2,529,193
SAFETY BOOM STOP
Earle F. Rueter, Milwaukee, Wis., assignor to Unit Crane & Shovel Corp., West Allis, Wis., a corporation of Delaware
Application December 26, 1945, Serial No. 637,237
5 Claims. (Cl. 212—39)



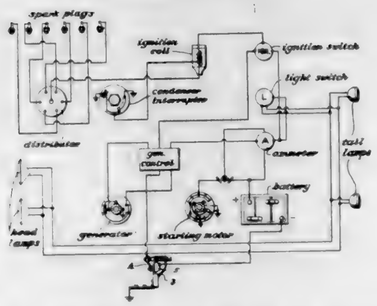
1. In a load-handling machine having a hoist boom and power means for operating said boom including control circuit means and a boom-hoist control member movable into and out of boom-hoisting position, a limit switch connected to said circuit means and having a power-enabling position and a power-disabling position, said limit switch being normally in power-enabling position, mechanical means controlled by the boom for operating said limit switch to power-disabling position upon the raising of the boom to a predetermined height and for restoring said limit switch to power-enabling position upon the lowering of the boom from its limit position, a manually operable locking-type reset switch connected with said circuit means and having an inactive position and a power-enabling position, said reset switch being normally in inactive position and being manually operated to power-enabling position when said limit switch is in power-disabling position, mechanical means controlled by the boom for restoring said manually operable reset switch from its power-enabling position to its inactive position upon the lowering of the boom from its limit position, and a third switch connected in circuit with said manually operable reset switch and having a mechanical actuating connection with said boom-hoist control member for rendering said reset switch ineffective to energize the power means while said control member is in boom-hoisting position.

2,529,194
HYDROSTATIC SCALE
Frank Stanley Saunders, Keynsham, near Bath, England
Application July 5, 1946, Serial No. 681,551
In Great Britain May 29, 1946
1 Claim. (Cl. 265—47)



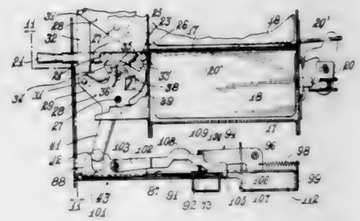
A hydrostatic weighing machine which comprises, in combination: a base element; a cover element secured to said base element and defining therewith a receptacle for an incompressible fluid between said two elements, said cover element being formed with a central aperture constituting a plunger guide therein; a plunger element having a limited vertical sliding movement with respect to said cover element positioned in said aperture therein; means for centralizing and supporting said plunger element in said cover element, said means including an india-rubber ring and a pair of annular ring nuts locking said india-rubber ring relatively to said cover element and said plunger element respectively; an annular projection on the inner end of said cover element; a flexible diaphragm embracing the inner end of said annular projection, said flexible diaphragm being retained on said annular projection by its own elasticity; and means for enabling fluid pressures developed within said receptacle between said base element and said cover element to be read externally thereof.

2,529,195
CIRCUIT BREAKER
Sink J. Stone, Swannanoa, N. C.
Application June 6, 1949, Serial No. 97,475
6 Claims. (Cl. 171—97)



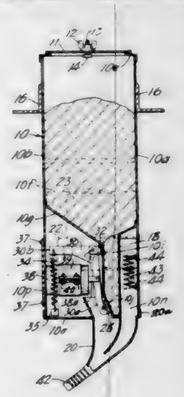
6. A powered vehicle having an occupancy compartment and a battery-generator compartment, said battery-generator compartment including a battery and generator assembly and electrical circuits therefor, a switch assembly located in said electrical circuits, one of said switches being located in the ground circuit of the battery and the other of said switches being located in the ground circuit of said generator assembly, means for normally maintaining said switches in circuit closing position, said occupancy compartment including a means for simultaneously releasing said switches to circuit-opening position, said releasing means including an operating handle for actuating said means, a flexible connector connecting said operating handle to said switch assembly in said battery-generator compartment, a locking means associated with said operating handle for maintaining said switches in circuit-opening position.

2,529,196
VENDING MACHINE
Harry B. Stoner, Aurora, Ill.
Application June 19, 1946, Serial No. 677,735
14 Claims. (Cl. 194—57)



1. In a vending device of the character described including a plurality of stacks for supporting commodities therein and normally inoperative operating means associated with each of said stacks for causing said commodities to be delivered from said stacks one by one, a coin-control mechanism associated with said device for releasing said operating means including sliding members and blocks normally blocking said sliding members, and coin positioned cam means carried by said sliding members movable during initial movement of said sliding members in the presence of coins into positions to engage and remove the blocks from the paths of the sliding members.

2,529,197
SANDING DEVICE
Samuel G. Storberg, St. Paul, Minn.
Application December 19, 1946, Serial No. 717,293
6 Claims. (Cl. 291—22)



1. A sanding device for a vehicle having in combination, a receptacle for containing comminuted frictional material having a discharge portion with a wall disposed at a small angle to the vertical and having an opening in the

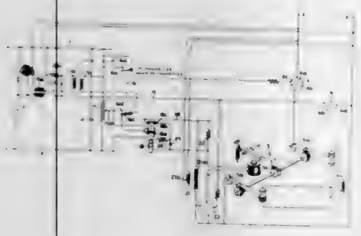
side thereof, a valve for closing said opening, a bellcrank lever having a depending portion adjacent the end of which said valve is secured, said lever having substantially horizontal laterally extending arms, tensile springs fixedly secured at one end and secured respectively at their other ends to said arms for swinging said lever to position normally closing said valve, and a solenoid disposed substantially between said springs having an armature directly connected to said depending portion and movable substantially at right angles thereto for swinging said lever to open said valve.

2,529,198

CHUCK MAGNETIZING AND DEMAGNETIZING CONTROL SYSTEM

Herbert F. Storm, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 10, 1949, Serial No. 75,557
5 Claims. (Cl. 175—335)



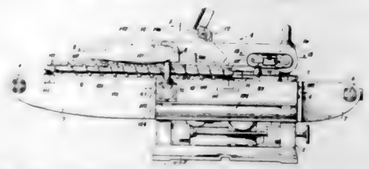
1. A chuck magnetizing and demagnetizing control system comprising a pair of alternating voltage supply conductors, a pair of chuck magnetizing coil terminals, a first electric valve provided with an anode, a cathode and a control grid and having its anode connected to one of said supply conductors and its cathode connected to one of said terminals, a connection from the other of said terminals to the other of said conductors, an electromagnetic reversing switch having an operating coil and having reversing contacts controlled thereby and connected to said terminals for reversing the connections of said terminals to a chuck magnetizing coil, a diode electric valve having its anode connected to said other conductor and having its cathode connected to the cathode of said first electric valve, a source of direct voltage, a capacitor and a potentiometer connected in series across said source, switching means operable to one position to short-circuit said capacitor and to establish a connection from said grid to said potentiometer and operable to a second position to interrupt said short circuit and to connect said grid to a source of negative bias to render said first valve nonconducting and to initiate decay of the current of said chuck coil through said diode valve, an electric valve having an anode-cathode circuit connected to said operating coil and a grid cathode circuit connected across said diode valve to be responsive to disappearance of the arc drop voltage across said second valve for energizing said reversing switch to reverse said chuck coil connections and for reestablishing said connection from said grid to said potentiometer.

2,529,199

MACHINE AND METHOD FOR HERMETICALLY SEALING CLOSURE CAPS TO CONTAINERS

Harry E. Stover, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware

Application February 24, 1945, Serial No. 579,671
31 Claims. (Cl. 226—82)



16. The method of sealing closure caps to containers which comprises sealing a closure cap to a container while the container is passing under a sealing mechanism and during the sealing of the cap to the container directing into the mouth of the container and into the interior of the closure a sterilizing and vacuum forming vapor superheated to a temperature substantially above the temperature of 240° F. to kill microbes and spores substantially instantaneously, whereby said microbes and spores in the head space of the container are killed during the sealing operation and spoilage prevented.

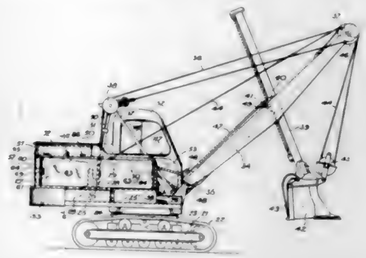
26. In a machine of the class described, the combination of an inclined guideway for closure caps, means at the lower end of the guideway for forcing a closure cap on a container, an injector head having an outlet for directing steam between the closure cap and the container as the closure is being applied to the container until prevented by substantially complete engagement of the cap with the container, said head having a pair of conduits therein, an electric heating unit in each conduit to heat the steam passing therethrough, and means for directing steam through one of said conduits in one direction into the other conduit and through said other conduit to the outlet in the opposite direction.

2,529,200

MATERIAL HANDLING MACHINE

Hilbert E. Swanson, Milwaukee, Wis., assignor to Unit Crane & Shovel Corp., West Allis, Wis., a corporation of Delaware

Application May 14, 1945, Serial No. 593,659
2 Claims. (Cl. 214—135)



1. In a material handling machine having a rotating machinery platform, a cab on said platform having a machinery enclosure and an operator's enclosure with windows on all sides, said operator's enclosure extending higher than said machinery enclosure and projecting laterally from one side of said machinery enclosure, and said operator's enclosure having a rear entrance adjacent to a side wall of the machinery enclosure.

2,529,201

DICHLOROSTYRENE AS ACCELERATOR IN THE POLYMERIZATION OF BUTADIENE-1,3 WITH STYRENE

Maurice C. Taylor, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation

Application December 30, 1948, Serial No. 68,134
2 Claims. (Cl. 260—80.7)

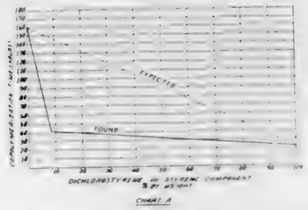


CHART A

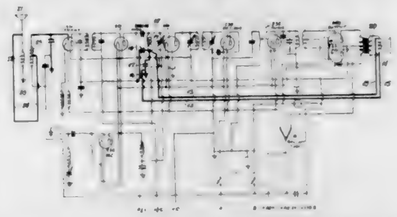
1. In the copolymerization of a mixture of monomeric materials consisting predominantly of butadiene-1,3 and styrene in which the concentration of the monomeric materials in water approximates 100 parts to about 180 to 250 parts of water by weight and which contains about 0.5 to 15% by weight of the monomeric materials of an emulsifying agent selected from the class consisting of alkali metal salts of high molecular weight fatty acids, ammonium salts of high molecular weight fatty acids, alkyl sulfates, alkali metal alkyl benzene sulfonates, and alkyl naphthalene sulfonates and in which a catalyst selected from the class consisting of hydrogen peroxide, urea peroxide, benzoyl peroxide, potassium persulfate, sodium persulfate and sodium perborate is employed, the improvement which comprises including in the emulsion, while it is being subjected to conditions producing copolymerization, a minor proportion of nuclear dichlorostyrene, said dichlorostyrene being present in an amount effective to accelerate the reaction rate, but not substantially in excess of 8 to 10% of the combined weight of the styrene and dichlorostyrene, and maintaining said combined weight within the range of 20 to 50% of the total weight of the monomeric materials.

2,529,202

ANTENNA INPUT CIRCUIT FOR RADIO RECEIVERS

Leo Singleton Tisdale, Sr., Meridian, Miss.

Application June 29, 1945, Serial No. 602,253
1 Claim. (Cl. 250—20)



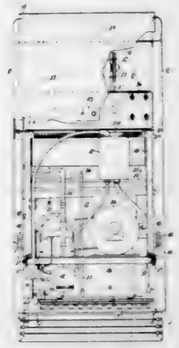
In a radio receiving circuit, the combination with an antenna, of a primary inductance having one of its ends connected to said antenna and its other end grounded, a secondary inductance arranged adjacent to and electromagnetically related with said primary inductance and forming part of a tank circuit for controlling the grid of a radio tube, an elongated electrical conductor having one end connected to the antenna side of said primary inductance and its other end connected to the electrical mid-point of said secondary inductance, the connection of said conductor to said inductances providing a loop antenna effect to augment the signal received by said antenna and fed to the grid of the radio tube.

2,529,203

SELF-CONTAINED AIR CONDITIONING UNIT

William W. Turpin, East Orange, N. J., assignor to General Electric Company, a corporation of New York

Application September 25, 1947, Serial No. 776,034
6 Claims. (Cl. 62—129)



1. An air conditioning unit comprising a casing having a blower compartment and a machinery compartment, said blower compartment having an inlet communicating with said machinery compartment and an outlet for discharging air into a space to be conditioned, said machinery compartment having an inlet for receiving air from outside said casing, a refrigerating machine including an evaporator and a compressor and a condenser connected in a closed refrigerant circuit, a supporting frame for said machine, means resiliently mounting said frame within said casing for suspending said refrigerating machine on said casing for movement with respect thereto within said machinery compartment, and means including flexible air duct walls between said machine and said casing for directing air from the inlet of said machinery compartment over said evaporator and into said blower compartment.

2,529,204

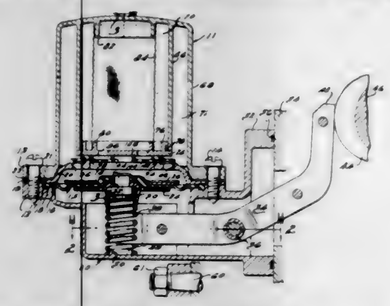
FUEL PUMP

Cornelius W. Van Ranst and Ward D. Smith, Dearborn, Mich.; said Smith assignor, by mesne assignments, to said Van Ranst

Application June 7, 1946, Serial No. 675,113
8 Claims. (Cl. 103—150)

1. In a fuel pump, a casing, means including valves defining an inlet chamber and an outlet chamber, a diaphragm operable to pump fuel through said chambers, means for pulsating said diaphragm, said last named means being responsive to variations in the fuel pressure within said chambers to vary the extent of movement of said diaphragm and including a depending element

connected to said diaphragm, a bell crank pivotally mounted on said casing having one end pivotally connected to said element and the other end adapted to engage a cam, and spring means urging said bell crank into engagement with said



cam, said last named means being responsive to said variations in the fuel pressure within said chambers to vary the contact between said other end of said bell crank and said cam and thereby to vary the stroke of said diaphragm.

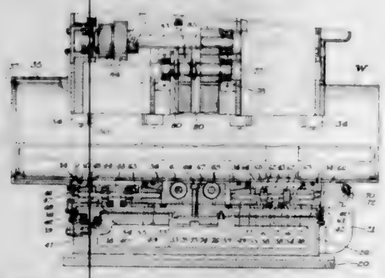
2,529,205

MACHINE TOOL CHUCK

William H. Weimer, North Prairie, Wis., assignor to Davis & Thompson Company, West Allis, Wis., a corporation of Delaware

Original application September 18, 1942, Serial No. 458,839, now Patent No. 2,424,524, dated July 22, 1947. Divided and this application December 4, 1943, Serial No. 512,943

4 Claims. (Cl. 279—57)



1. In combination, an annular series of contractible article-clamping jaws having tapered outer surfaces, means for preventing axial shifting of said jaws, a wedge ring surrounding said series of jaws and engaging said tapered surfaces, means for supporting said wedge ring, and means for axially shifting said wedge ring to contract said jaws, said last named means including an actuating shaft journalled in said wedge ring.

2,529,206

PROCESS FOR INCREASING THE CORROSION RESISTANCE OF FERROUS ARTICLES

Arthur F. Winslow, Scotia, and Earl W. Balis, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application February 18, 1948, Serial No. 9,337

6 Claims. (Cl. 117—62)

4. A method for improving the corrosion resistance of the surface of a ferrous article which comprises (1) applying to the surface of the said ferrous article a thin adherent coating of an aqueous solution comprising an alkali-metal silicate, said solution containing, by weight, from 10 to 90% phosphoric acid, based on the weight of the alkali-metal silicate, (2) removing the water from the aqueous silicate-phosphoric acid solution coating and passing the dried coated article through an atmosphere containing water vapor, (3) subjecting the said water vapor-treated article to the vapors of a hydrocarbon-substituted halogenosilane.

2,529,207

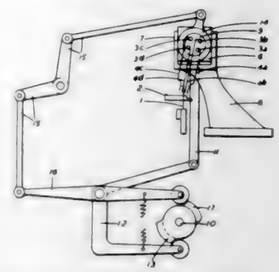
KNITTING MACHINE

George H. Woolley, Shepshed, England

Application December 24, 1946, Serial No. 718,156

In Great Britain June 11, 1945

6 Claims. (Cl. 66—128)



1. In a straight bar knitting machine arranged for the production of intarsia fabric and having a line of needles and a plurality of thread carrier rods, the combination of a plurality of thread carriers mounted on each rod and having threads thereon adapted to be supplied to the needles at the front side thereof, means for positioning the threads associated with any two of the rods at locations suitable for supplying the threads to the needles at the rear thereof when the rods are next moved in a direction of the line of needles, means for shogging one of the two rods, while the threads are positioned as stated, in one direction of the line of needles to the extent of the distance between adjacent needles, and for shogging the other rod in the opposite direction to the extent of twice the said distance, and means for repositioning the said threads after the rods have been shogged, at suitable locations to be again supplied to the needles at the front thereof.

2,529,208

BULLDOZER ATTACHMENT

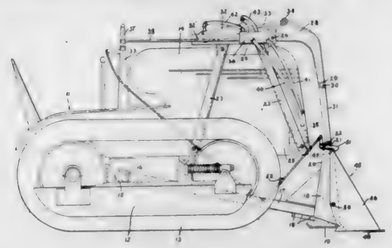
Tengel Andersen, Staten Island, N. Y., assignor to Certified Equipment Corp., New York, N. Y., a corporation of New York

Application February 20, 1946, Serial No. 648,875

2 Claims. (Cl. 214—140)

1. In combination with a tractor, a pair of arms pivotally attached at their rear ends to the tractor and extending forwardly along the sides of the tractor, a blade carried at the forward ends of said arms and extending across the tractor in front of the same, said blade having side plates and a pair of alined bearings in said side plates, a scoop having a top cross-bar, a bottom and side plates, and a pair of alined bearings in said side plates registering with the bearings in the side plates of said blade, pivot members passing through said pairs of bearings for pivotally

mounting the scoop on the blade, a latch pivoted to the blade adjacent the upper edge thereof and adapted to be engaged by the top cross bar of said scoop whenever the blade and scoop are dropped against the ground and the scoop



thereby caused to rotate in a direction to engage said cross bar with said latch, and an operator-actuated cable for releasing said latch to permit the loaded scoop to rotate in reverse direction and dump its load.

2,529,209

PURIFICATION OF ALKYL PHENOLS

Jackson J. Ayo, Elizabeth, and Ferdinand J. Gajewski, Linden, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 11, 1947, Serial No. 791,166

1 Claim. (Cl. 202—57)

In the purification of higher alkylated phenols containing an alkyl substituent of at least 4 carbon atoms by vacuum distillation at a predetermined temperature, the improvement which comprises mixing said phenol prior to distillation with about 1% by weight thereof of an alkali and heating said mixture to a temperature about 80° C. higher than said predetermined vacuum distillation temperature for about 15 minutes and thereafter cooling said mixture and vacuum distilling said phenol at said predetermined temperature.

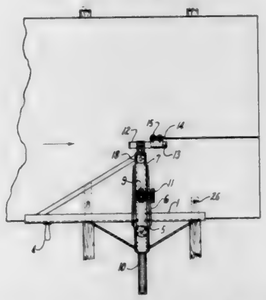
2,529,210

CUTTING APPARATUS FOR WALLBOARDS AND THE LIKE

Joseph F. Butler, Pittsburgh, Pa.

Application May 23, 1947, Serial No. 749,933

4 Claims. (Cl. 164—36)



1. Apparatus for cutting wall boards or the like comprising a relatively long guide channel adapted to engage the edge of the board to be cut for sliding movement thereon, cutting apparatus mounted on said channel comprising a plurality of guides, cutter arms movable in said guides having a cross yoke at one end thereof and having straps at their free ends, cutters mounted on said straps, means on said arm guides for displacing said cutter arms to adjust the depth of the cut, gear and rack means for adjusting the cutter arms relative to the channel guide, and adjustable clamping means for locking the cutter arms in adjusted position.

2,529,211

FIRE EXTINGUISHING COMPOSITION AND METHOD

Warren F. Busse, Joseph M. Lambert, and Peter P. Debye, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 12, 1946, Serial No. 641,014

9 Claims. (Cl. 252—3)

9. A composition of matter in concentrated form, yielding solutions capable of producing large quantities of stable, fire extinguishing air-foam when diluted with 7–20 parts of water per part of said composition, said composition consisting essentially of an aqueous solution of a member of the group consisting of anionic and non-ionic, non-saponaceous surface-tension reducing agents in a concentration of at least 1.75% and Karaya gum in a concentration of at least 0.7% but not more than 40%.

2,529,212

COMPACT RELAY AND SUPPORTING MEANS THEREFOR

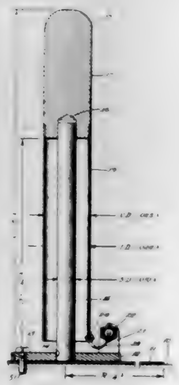
Guy H. Coulter, Detroit, Mich., assignor to United Lens Corporation, Detroit, Mich., a corporation of Delaware

Original application July 27, 1942, Serial No. 452,521, now Patent No. 2,453,702, November 16, 1948. Divided and this application May 29, 1947, Serial No. 751,417

9 Claims. (Cl. 200—87)

1. A compact relay including a hollow tubular housing closed at each end by circular discs of insulating material; a channel-shaped shallow frame snugly fitting said housing forming a reinforced assembly; a magnetizable core carried by said frame; a relay winding around said core and adapted to be connected to a wire from a source of power, the other end of said winding adapted to be connected to an outlet lead; a movable make and break contact adapted to engage a stationary contact insulatingly mounted on said frame and an armature supporting said movable contact carried by said frame insulated therefrom, said movable contact adapted to be connected with said wire from said source of power and said stationary contact adapted to be connected with a second outlet lead; a plurality of openings in one and a single opening in the other of the discs closing the ends of said housing, one for each of said leads whereby, said leads may provide the sole support for said housing.

2,529,213
GROUND PLANE ANTENNA
Joseph Goldsmith, Lyons, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application March 10, 1947, Serial No. 733,625
10 Claims. (Cl. 250—33)

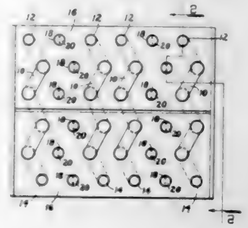


6. In a broad band antenna for the very high frequency range including a ground plane and a vertically polarized radiator on the ground plane, the improvement that resides in the provision of a radiator consisting of a base and vertical supporting shaft with an enlarged cylindrical head at the upper end of the shaft and a single hollow tubular sleeve surrounding and spaced from the supporting shaft and electrically separate therefrom throughout its length below the head and extending continuously downwardly from the shaft substantially the length of the shaft but electrically separate from the base.

2,529,214
COPOLYMERIZATION OF UNSATURATED ALKYD RESIN IN THE PRESENCE OF AROMATIC SULFONIC ACID PROMOTER
Raymond R. Harris, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 6, 1946, Serial No. 695,302
12 Claims. (Cl. 260—45.4)

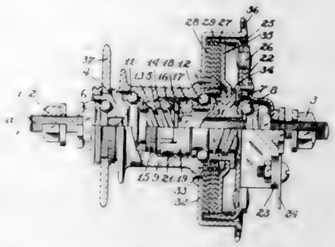
1. A polymerizable composition which cures at an accelerated rate at elevated temperatures comprising (1) a mixture of a polymerizable unsaturated alkyd resin which is a polyhydric alcohol ester of an alpha, beta unsaturated polycarboxylic acid and a compatible polymerizable substance having a $CH_2=C<$ group, a boiling point of at least 60° C. and no conjugated ethylenic carbon-to-carbon double bonds, (2) a polymerization inhibitor which is a phenol, (3) a polymerization catalyst which is an organic peroxide and (4) from 0.03% to 0.3%, based on the weight of the polymerizable composition, of an aromatic sulfonic acid compatible with ingredients (1), (2) and (3), said aromatic sulfonic acid containing a sulfonic acid group attached directly to an aromatic nucleus by a sulfur-to-carbon linkage.

2,529,215
HEAT EXCHANGER
Gerald E. Hicke, La Crosse, Wis., assignor to The Trane Company, La Crosse, Wis.
Application November 10, 1947, Serial No. 785,091
6 Claims. (Cl. 219—19)



1. A heat exchanger for cooling air comprising a plurality of fins, tubes extending through the fins and substantially perpendicular thereto, said tubes being in intimate contact with the fins, some of said tubes being connected to form a plurality of tube circuits, each of said tube circuits being connected to a source of refrigerant having a temperature below 30° Fahrenheit, each of said tube circuits by-passing certain tubes, and electric heating elements in the by-passed tubes for defrosting said heat exchanger, said by-passed tubes being spaced throughout the fin area to transmit heat substantially uniformly and at the same rate to all portions of the fin.

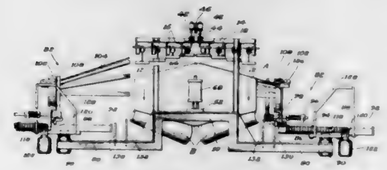
2,529,216
HEAVY-DUTY COASTER BRAKE
Edwin Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application June 27, 1949, Serial No. 101,635
4 Claims. (Cl. 192—6)



1. In a coaster brake a fixed axle, a driving and control member including a screw shaft journalled thereon, a brake actuating screw shaft also journalled on the axle, a wheel hub journalled on said screw shafts, a clutch-nut threaded on the first screw shaft formed with a clutch surface adapted to engage and transmit driving torque to a similar clutch surface on the interior of the hub upon forward rotation of the driving and control members, a clutch member fixedly mounted on the brake-actuating screw shaft, said clutch nut having a corresponding clutch face adapted to engage therewith and rotate the brake-actuating screw shaft backward upon backward rotation of the driving and controlling member, a stationary anchor plate and drum on the axle, a plurality of brake discs splined alternately to the wheel hub and said drum, a spoke flange fixed to the hub, a nut

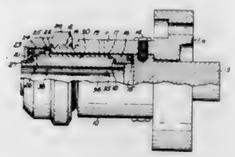
threaded on the brake actuating screw shaft, and a pressure disc fixed thereon and movable thereby on backward rotation of the brake actuating screw shaft to compress the brake discs between said flange and pressure disc.

2,529,217
TUBULAR BODY FORMING APPARATUS
Manfred T. Hoffman, Newburyport, Mass., and John Thomas O'Connor, Plainfield, N. J., assignors to Merrimac Hat Corporation, Amesbury, Mass., a corporation of Massachusetts
Application December 28, 1946, Serial No. 719,009
14 Claims. (Cl. 19—149)



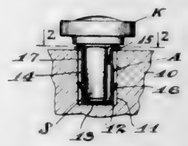
1. In a tubular body forming machine of the character described having means for winding a web upon a form spirally reciprocally from end to end of the form, the combination of means for severing the wound web into two parts about the axis of the form and mechanical means for engaging and removing each of said parts from its end of the form while the web is being wound on the opposite end of the form.

2,529,218
COLLET CHUCK
William F. Hunsdorf, Cleveland, Ohio
Application May 10, 1947, Serial No. 747,297
2 Claims. (Cl. 279—48)



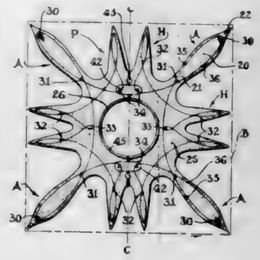
2. In a chuck, the combination of a shank member, a nose piece member, and a collet member, the said collet member having slots extending longitudinally therethrough from at least one end thereof forming a plurality of collet jaws at such end, the said collet member also having two axially spaced conical cam surfaces and two axially spaced annular shoulder portions, the said shank member having an internal frusto-conical shoulder including a tapered portion and a straight portion, the tapered portion being slidably engaged with one of the two collet cam surfaces, the said nose piece member having an internal frusto-conical member including a tapered portion and a straight portion, the tapered portion being slidably engaged with the other of the said cam surfaces of the said collet, the straight portions of the shank and nose shoulders being axially aligned with said collet shoulders and normally spaced therefrom, there being means present to prevent rotational movement of said collet, such means including a key and a keyway.

2,529,219
FASTENER FOR STEMS OR THE LIKE
Harold W. Kost, Toledo, Ohio, assignor, by mesne assignments, to Prestole Corporation, Toledo, Ohio, a corporation of Michigan
Application August 8, 1945, Serial No. 609,596
1 Claim. (Cl. 85—5)



Fastening device of the class described comprising in combination a supporting member having a cylindrical socket, a plastic stem extending into said socket, a fastener for retaining said plastic stem within said socket, said fastener comprising a one-piece spring metal stamping having a U-shaped body, the base of the U being disposed in the region of the bottom of the socket, opposite arms of said U-shaped body being curvilinear in cross section to conform to the curvature of the socket walls, integral outwardly extending flanges on the free ends of the arms of the body engaging the face of the supporting member at the mouth of the socket, the arms of the body being spaced from the adjacent walls of the socket, a pair of oppositely arranged resilient fingers struck from the body and inclining outwardly therefrom with the free ends extending in the general direction of said flanges and impinging against the adjacent wall of the socket for retaining the fastener therein, said fingers being curvilinear in cross section to conform in general to the curvature of the socket wall, and a second pair of spring fingers struck from the fastener body, spaced longitudinally from said first fingers and inclining inwardly with the free ends in impinging engagement against the adjacent surface of the plastic stem for retaining same against outward movement relative to the socket.

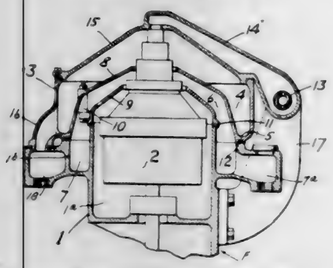
2,529,220
FOUNDATION PILE
Joseph W. Levasseur, Nicolet, Quebec, Canada
Application March 26, 1947, Serial No. 737,320
2 Claims. (Cl. 61—56)



1. In a sectional foundation pile, an annular body section cut diametrally to form independent portions, arms projecting radially from said body in uniformly spaced relation, shorter substantially parallel horns projecting between the arms, tie-rods disposed vertically at the ends of the arms, armature rods also vertically disposed medially in the horns and annulus, a wire armature connecting together the tie-rods and the

horn armature rods to the annulus rods, wire links joining together the portions of one pile section, a collar inside the annulus projecting above the section top surface to enter the annulus of a superposed section, and means for tying together the tie-rods of successive sections to form a rigid whole.

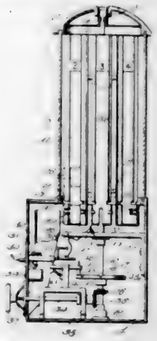
2,529,221
COVER FOR SEPARATOR FRAMES
Hans Olof Lindgren, Smedslatten, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application June 19, 1945, Serial No. 600,381
In Sweden July 7, 1944
6 Claims. (Cl. 233—21)



1. A centrifugal separator comprising a frame having a wall at least partly defining a bowl-receiving chamber, the frame also having a wall disposed outwardly from said first wall and forming therewith an upwardly opening channel surrounding said chamber, the frame also having below its top an outlet from said channel for a separated heavier constituent, and a mbvable cover for the frame having an annular receiving chamber for a separated lighter constituent, the cover also having a second annular receiving chamber for said heavier constituent and opening downwardly into said channel in the frame, said downward opening extending continuously around said first wall of the frame, the cover including an annular inner wall normally resting upon said first wall of the frame and forming an upward extension of the inner wall of said channel.

2,529,222
VENDING MACHINE
William Clark Makibbin, New Bloomfield, Pa.
Application December 9, 1948, Serial No. 64,285
9 Claims. (Cl. 312—64)

1. In a vending machine a frame, a vertically disposed shaft, a rotary turret carried by said shaft and including a multiplicity of vertically arranged storage chutes for gravitationally guiding articles of merchandise therethrough, each of said storage chutes terminating in a discharge base portion, an ejector pivotally mounted with respect to said frame in such a manner that pivotal action will cause an article to be ejected from the discharge base portion of a selected chute, an index plate carried by said vertically disposed shaft, said index plate having a multiplicity of radially extending grooves therein, a pivotally mounted pawl mechanism including a detent having an upwardly extending abutment stop thereon, spring means for continuously urging said detent into engagement with said index plate for positioning either of two planes, one determined by engagement of said detent with the surface of said index plate and the other determined by the engagement of said detent within said grooves, and a coin actuated slide aligned in the path of the pivoted ejector, said slide being blocked from movement by the upwardly extending abutment stop when said stop is in the position determined by engagement of the detent with the surface of the index plate, but said slide being adapted to clear said stop and actuate the ejector when the detent is in the other of its two positions, and means to impart rotation to the vertically disposed shaft.

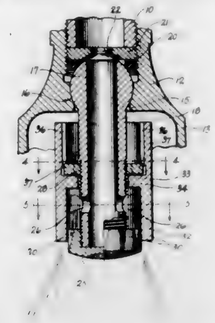


6. A vending machine comprising a vertically disposed shaft, a rotatable turret carried by said shaft, a multiplicity of vertically extending storage chutes mounted on said turret with the sides of said storage chutes opening externally with respect to said turret, each storage chute terminating in a base portion bifurcated at its inner side and end, with a discharge opening extending radially outwardly from the base thereof, a filler insert for the end of the base portion of said storage chute for positioning the merchandise package to be vended in a position adapted to be ejected from said chute, said filler insert having a slot therein aligned with the bifurcated portion of the inner side and end of the chute, and an ejector member pivotally mounted below the bifurcated end of said storage chute and means for imparting movement to said ejector member whereby said ejector member moves through the bifurcated side and bottom of a selected storage chute and through the slot in said filler insert for ejecting an article of merchandise gravitationally movable down the storage chute, through the side thereof.

2,529,223
SHOWER HEAD
Alfred M. Moen, Seattle, Wash.
Application July 8, 1946, Serial No. 682,059
4 Claims. (Cl. 299—132)

1. A shower head comprising a vertically directed pipe element formed with a lateral port through which water supplied to the pipe element under pressure may be discharged, a sleeve, open at its ends, slidably mounted about the said pipe element, across the said lateral port and providing a water discharge passage between them, an annular wall formed within the sleeve intermediate its ends and substantially closing off the water discharge passage at that location, a lower stop on the pipe element for limiting the downward movement of the sleeve at a position at which the said annular wall will be below the discharge port and water from the port will be diverted to and discharged from the upper end of the sleeve, and upper stop on the pipe element for limiting the upward movement of the sleeve

at a position at which the said annular wall will be above the said discharge port and water from the port will be diverted to and discharged from lower end of the sleeve; and means fixed on the pipe element and coacting with the lower end portion of the sleeve to convert water that is dis-



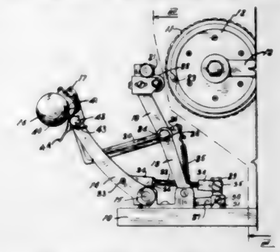
charged at that end into spray; said sleeve being adapted to be manually lifted from its lower to its upper limit and then to be held at its upper limit by pressure of water against the under side of said annular wall therein, and to drop by gravity when water pressure is discontinued.

2,529,224
HAIRPIN
Max M. Newman, New York, N. Y.
Application May 22, 1947, Serial No. 749,654
7 Claims. (Cl. 132—50)

1. A hair pin of resilient material having connected and superimposed upper and lower substantially straight shanks normally urged toward each other so as to be in normal contact with each other, a projection disposed endwise of one of said shanks whereby said projection normally descends below the level of said other shank, said projection being split centrally so as to receive said other shank in the split center thereof whereby said shanks may meet each other while the split projection descends below said other shank.

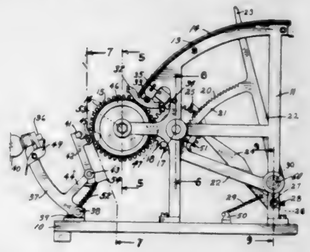
2,529,225
INKING DEVICE FOR LAUNDRY MARKING MACHINES
Genevieve Petty, Denver, Colo.
Application June 21, 1947, Serial No. 756,155
4 Claims. (Cl. 101—97)

1. In a laundry marking machine having a base and an impression frame hingedly mounted on said base for carrying an impression pad forwardly against type wheels, means for inking the type wheels in advance of the contact of said impression pad comprising: a lower lever member hingedly mounted on said base forwardly of said frame; means for transmitting the movements of said impression frame to said lower lever member; an upper lever member hinged to the upper extremity of the lower member and extending upwardly therefrom; an ink pad carried at the upper extremity of the upper lever member to contact the type wheels; a tension spring urging said upper lever member toward said type wheels; and means for relieving the



tension in said spring as said impression lever approaches said type wheel.

2,529,226
TYPE WHEEL LOCKING MEANS IN LAUNDRY MARKING MACHINES
William S. Petty, Denver, Colo.
Application September 6, 1947, Serial No. 772,559
2 Claims. (Cl. 101—95)

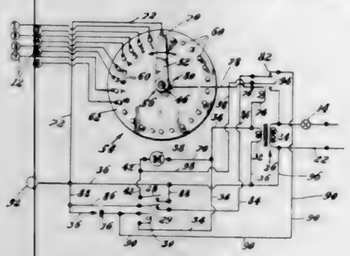


1. A laundry marking machine comprising: a type wheel shaft; a plurality of adjacent type wheels mounted to rotate about the axis of said shaft, the type faces on said type wheels being separated by notches; intermediate gears meshing with the notches of said type wheels; a drive gear concentrically attached to each intermediate gear; a toothed segment frame meshing with each drive gear; a handle projecting from each frame for rotating the latter; a hinged pawl detent lever positioned between each pair of adjacent segment frames; a projecting detent on each detent lever engaging between the teeth of one of said intermediate gears; a spring urging each detent lever toward one of said intermediate gears; a detent lever shaft acting as a common hinge axis for all of said detent levers; a bearing supporting each extremity of said lever shaft; and means for shifting said bearing member to vary the position of the contact point between said projecting detents and said intermediate gears.

2,529,227
APPARATUS FOR WIRE CODING
George M. Rosenblum, Merrick, N. Y.
Application December 30, 1943, Serial No. 516,176
5 Claims. (Cl. 175—183)

1. In an apparatus for determining each wire in a group of wires, a testing circuit, a plurality of means for detachably securing one of said means to a wire of said group of wires, each said securing means having an identifying indicia, an indicator circuit, a locking relay having a switch arranged in the indicator circuit for clos-

ing said indicator circuit, an unlocking relay controlling switch arranged in the testing circuit for opening the indicator circuit upon closing the testing circuit and a visual means movable into and out of visible position in the apparatus and having indicia thereon corresponding to the said identifying indicia on each securing means, said



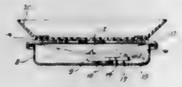
visual means moved into position whereby an identifying indicia corresponding to a securing means becomes visible upon closing the testing circuit through the wire of said group connected to the said securing means having the indicia thereon corresponding to the indicia on the visible means.

2,529,228

DAMPER FOR HEARING AIDS

Walter A. Schwalm, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application April 26, 1947, Serial No. 744,196

1 Claim. (Cl. 179—180)

A hearing aid system comprising: a microphone for producing audio-frequency signals in response to impinging sound waves and having a peak response at a predetermined natural mechanical resonance frequency; an amplifier coupled to said microphone for amplifying said signals; a sound reproducer coupled to said amplifier to convert said amplified signals into intelligible sound and having a response range substantially excluding said predetermined frequency, whereby components of said waves at said predetermined frequency tend to overload said amplifier and produce cross-modulation with components of said waves of frequencies within said reproducer response range; and an acoustic damper of tightly woven soft cloth fibers supported in the path of said sound waves for reducing said peak response to minimize said cross-modulation and the resultant distortion of said reproduced sound.

2,529,229

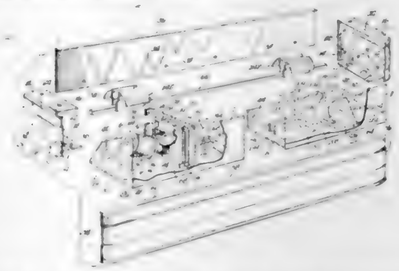
VENETIAN BLIND CONSTRUCTION

Glenn L. Sherwood, Benton Harbor, Mich.

Application April 6, 1945, Serial No. 586,905

9 Claims. (Cl. 160—168)

1. A head box construction for a Venetian blind comprising right and left supports, slat tilting means mounted on one of said supports, slat lift cord controlling means mounted on the other support, removable panel means for rigidly interconnecting the backs of said right and left end supports, and other panel means removably supported on the front of said right and left supports and forming a substantially enclosing hous-



ing for the front of said tilting and controlling means.

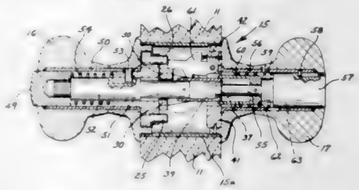
2,529,230

COMBINED DOOR LATCH AND LOCK

David C. Smith and Leroy I. Oblinger, Toledo, Ohio, assignors of thirty per cent to E. W. Sauers and thirty per cent to A. E. Giesey, both of Cleveland, Ohio

Application July 10, 1947, Serial No. 759,976

4 Claims. (Cl. 70—149)



1. A door latch for a door comprising a retractable latch bolt, means including a fork member for retracting said bolt, means adapted to be operable from the inner side of the door for actuating said retracting means, means including clutch means for normally permitting operation of said actuating means from the outside of the door to retract said latch bolt, means adapted to be operable from the inner side of the door for disengaging said clutch means to render the latch inoperable from the outer side of the door, and means for holding the clutch in the position of disengagement, said fork member being adapted to release said holding means to permit re-engagement of said clutch means when said retracting means are actuated, depressible key-actuated means for the outer side of the door for disengaging said clutch means to render said latch inoperable from the outer side of the door, means operable by further depressing said key-actuated means for releasing said holding means when said holding means is holding the clutch in the position of disengagement so that said clutch means will be engaged after said key-actuated means is released, thus permitting the operation of said retracting means from the outside of the door.

2,529,231

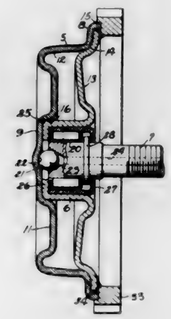
SHEET METAL WHEEL STRUCTURE

Ralph E. Smith, Muskegon, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey

Application October 31, 1945, Serial No. 625,839

3 Claims. (Cl. 295—24)

3. A wheel and axle assembly comprising, in combination, an axle having at one end a series of roller bearings enclosed by a cylindrical retainer, a sheet metal shell shaped to provide an annular track-engaging tread with a centrally recessed radially inwardly extending web at one side and a radially outwardly projecting flange at the other side, a sheet metal member assembled with said shell including a disk-shaped web portion having its outer marginal edge secured to



said shell adjacent said flange and an integral elongated cylindrical hub portion projecting axially therefrom toward the web portion of said shell and engaging in the central recess therein, said hub portion being dimensioned to receive said bearing retainer, the web portions of said shell and said member being spaced apart axially of the wheel throughout their entire areas to provide rigid support for said tread.

2,529,232

METHOD OF PRODUCING AROMATIZED BUTTER BY COOLING RICH CREAM, AND PRODUCT THEREOF

Alf Lennart Stigen, Stockholm, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden

No Drawing. Application August 17, 1948, Serial No. 44,794. In Sweden August 20, 1947

6 Claims. (Cl. 99—119)

1. In the process of producing an aromatized butter having good keeping qualities, in which butter fat contained in rich cream is converted from a dispersed phase to a continuous phase by cooling the cream, thereby forming from the continuous liquid phase of the cream moisture droplets of smaller size than the moisture droplets in butter obtained by working the butter fat to effect the phase conversion, and in which aromatics are introduced into the material being processed at such a stage of the process as to be included in the final product, the improvement which comprises mixing with said material the aromatics in droplets more coarsely dispersed and of a larger size than said first moisture droplets, whereby the final butter product contains finely dispersed and comminuted moisture droplets formed, in said phase conversion, from the continuous liquid phase of the cream, and also contains larger and more coarsely dispersed moisture droplets which, after the phase conversion, include the major part of the aromatics.

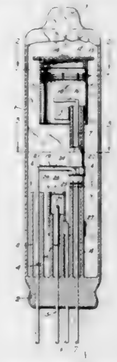
2,529,233

GASEOUS-DISCHARGE DEVICE

Paul W. Stutsman, Needham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application June 24, 1947, Serial No. 756,683

6 Claims. (Cl. 250—27.5)



2. A gaseous discharge device, comprising an envelope containing an ionizable gas, a metallic cathode, a main anode inside said envelope spaced from said cathode to provide a path therebetween in which a glow discharge may be established, a collector electrode positioned in said path, said electrode being caused to assume a positive potential with respect to said cathode by the establishment of said glow discharge, and a starting anode positioned adjacent said cathode between said electrode and said cathode to establish said glow discharge, said starting anode having a perforated portion extending across the discharge path between said cathode and electrode and intercepting all straight line discharge paths therebetween to shield said cathode from said electrode, thereby to prevent establishment of said glow discharge by said electrode.

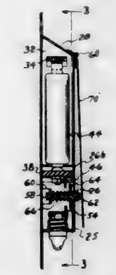
2,529,234

KEYHOLE ILLUMINATOR

Donald H. Swanson, Minneapolis, Minn.

Application March 29, 1947, Serial No. 738,058

3 Claims. (Cl. 240—2.13)



1. A keyhole illuminator, comprising a two-pole battery, an electric lamp, a first conductor connecting one pole of the battery and the lamp, a first terminal extending from the other pole of the battery, a second terminal extending from the lamp, a second conductor adapted to electrically join said terminals, a casing surrounding said battery, conductors and terminals, said cas-

ing having an opening therein, a plate hingedly supported at one end of said casing with its other end extending over the opening in said casing, an actuator positioned in the opening of said casing with one end joined to said second conductor and the other end in contact with said plate, and a spring operatively connected to said actuator for biasing a portion of the plate away from the casing and holding the second conductor away from said terminals in such a manner that movement of the plate in the direction of the casing engages said second conductor with said terminals.

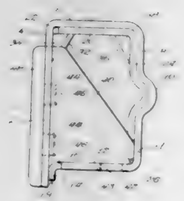
2,529,235

FRICTION MEMBER

Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application September 27, 1947, Serial No. 776,604

4 Claims. (Cl. 188—251)



1. A fabricated friction shoe comprising a shell with front and rear walls, a spring seat wall integral with and extending between said front and rear walls, spaced shelves connecting the front and rear walls at a point spaced from said spring seat wall, a stiffener welded to said shell and having webs complemental to and engaging the inner surfaces of the spring seat wall and the rear wall, a pair of braces welded to the front wall and the stiffener at opposite sides of the spring seat wall, another pair of braces welded to the debs of said stiffener at opposite sides of said spring seat wall, said braces defining a spring seat, one brace of each pair and the adjacent brace of the other pair having surfaces converging outwardly from said spring seat and adapted to position an associated spring, a separable composition wedge block seated on each shelf and bonded thereto, and a separable composition friction liner bonded to the front surface of the front wall.

2,529,236

REACTIVATION OF COBALT OXO CATALYST

Marius 't Hart, Han Hoog, and Krijn Arnout Weeda, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 1, 1948, Serial No. 24,667. In the Netherlands May 2, 1947

3 Claims. (Cl. 252—416)

1. The process for the reactivation of cobalt catalyst which has been deactivated through use in the production of oxygenated compounds by the Oxo Process which comprises the steps of heating the said deactivated catalyst to a temperature between 700° C. and 900° C. in contact with oxygen and then reducing the catalyst with a reducing gas at a temperature above 400° C.

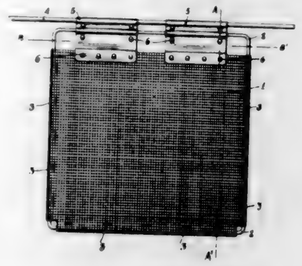
2,529,237

ELECTRO-RECOVERY OF METALS

Joseph L. Turner, Fair Haven, and Hugh V. Alessandroni, Rumson, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

Application January 13, 1945, Serial No. 572,658

3 Claims. (Cl. 204—10)



1. A method for the preparation of metallic powders which comprises electrolytically depositing a brittle metal upon a thin, resilient and elastic, open-work pattern composed of an electrically conductive metal, in which the total of the projected areas of the openings constitutes from 15% to 90% of the projected area of the pattern, said openings not exceeding 0.5 inch in width, until the metal deposited upon the pattern has completely filled the openings in the pattern and has formed a substantially homogeneous slab having the pattern embedded therein substantially midway between its major surfaces, and then pulverizing the metal deposit and pattern without prior separation.

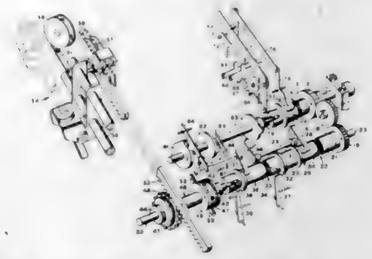
2,529,238

PRINTING TELEGRAPH APPARATUS

Herbert Angel, Brooklyn, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application July 27, 1946, Serial No. 686,679

5 Claims. (Cl. 178—25)



1. In a printing telegraph machine having a recording web on which recording is effected in columns, a printing unit movable transversely the web step-by-step a predetermined distance in a letter spacing direction in conjunction with printing and word spacing operations, a rotatable member adapted to rotate a predetermined part of a revolution during movement of said printing unit from the beginning of one column to the beginning of the next, means for rotating said rotatable member increments of said predetermined amounts during the step-by-step advancement of said printing unit, signal controlled means for rotating said member continuously the remainder of said predetermined amount and means operative during the remainder of said rotation to continuously advance said printing unit from the end of one column of print to the beginning of the next.

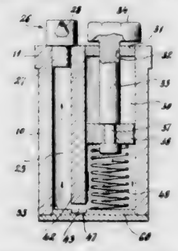
2,529,239

POCKET ATOMIZER

Arthur Arbetman, Newark, N. J., assignor to Rodman Trading Corp., Little Neck, N. Y., a corporation of New York

Application January 3, 1948, Serial No. 437

4 Claims. (Cl. 299—88)



1. In an atomizer, a body having at least one pair of bores extending longitudinally therethrough in transversely spaced relation and each defining a passage, a slot in one end of the body extending between the bores for interconnecting the passages at one end of the latter, and a plate secured to said one end of the body and closing such one end of the passages defined by the bores, said plate having a boss fitting in the slot but of less height than the depth of the slot whereby to define, with the slot, a small cross passage interconnecting the first-named passages.

2,529,240

DOLL EYE MECHANISM

William H. Barrows, Lansing, Mich.

Application May 11, 1949, Serial No. 92,685

1 Claim. (Cl. 46—169)

In combination with a doll's hollow head, an eye actuating mechanism comprising a pair of truncated cones, the said cones being opposed and joined at their conic sections, a fulcrum, the said fulcrum being secured to each of the said cones substantially at the points of the joint thereof, a fulcrum pin, the said fulcrum pin having bearings at each end thereof the said pin, and the said bearings being attached to the inside of the wall of the head of the doll, a pair of separator tubes, each of the said separator tubes being thereover the said fulcrum pin, and being separated by the said fulcrum, a pair of covers, one of the said covers being secured to each of the bases of the two truncated cones, respectively, a supporting ring, the said supporting ring being secured at its periphery to one of the said cones, the said supporting ring being disposed substantially at the conic section of one of the said cones, a plurality of ring supports, a stop ring, one end of each of the said ring supports being secured to the said supporting ring, each of the other ends of the said ring supports being secured to the said stop ring, the said stop ring having an opening, the said opening being centrally disposed therein, a funnel valve, the said funnel valve being movably disposed between the said supporting ring and the said stop ring, and the said funnel valve being surrounded by the said plurality of ring supports, the said supporting ring having a bevelled opening, the said opening being centrally disposed and adapted for the funnel valve to conform therewith, a funnel, the said funnel being disposed within the second said truncated cone, the periphery of the base of the said funnel being secured to the inner wall of the second said truncated cone, and the periphery of the conic section being secured to the said supporting ring, an actuating angle bracket, the said actuating angle bracket being secured to the outside of one of the said truncated cones and being disposed substantially near the base thereof, the said actuating angle bracket having a slot therein one of its sides, an eye bar, a pair of eyes, the said eyes being rigidly secured to the said eye bar, the said eye bar being movably secured at each of its ends to an inside wall of the head, the said lever being rigidly secured at one end to one of the eyes, the other end of the said lever being held therein the said slot of the said actuating angle bracket, a lower stop bar, an upper stop bar, the said lower stop bar adapted for regulating the distance of the movement of the truncated cones while the eyes are in the awake position, the upper stop bar being adapted for regulating the distance of the movement of the truncated cones while the eyes are in the sleeping position, a plurality of pellets, the said pellets adapted for passage from one cone to the other, to align the pupils of the eyes with the eye openings in the head of the doll to simulate an awake position thereof, and to disalign the pupils of the eyes with the eye openings in the head of the doll to simulate a sleeping position thereof.

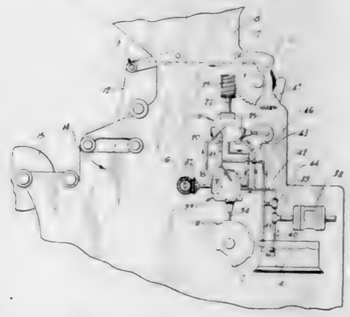
2,529,241

WARP KNITTING MACHINE

Rudolph Bassist, New York, N. Y., assignor, by direct and mesne assignments, to Futura Fabrics Corporation, a corporation of New York

Application May 3, 1946, Serial No. 666,985

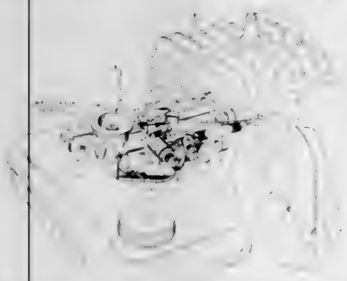
15 Claims. (Cl. 66—86)



1. In a warp knitting machine, a cam shaft, a warp beam, adjustable mechanism operated in timed relation to said cam shaft for continuously rotating said warp beam in yarn-feeding direc-

tion, said mechanism comprising a variable-output fluid motor, means for varying the output of said motor, and regulatory means operatively connected to said output-varying means and responsive to the diminishing quantity of yarn on said warp beam for automatically effecting compensatory variations in the warp beam movements.

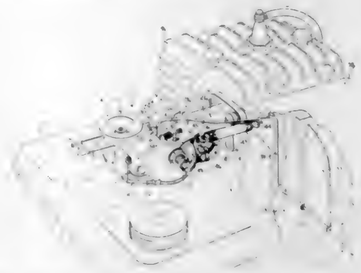
2,529,242
CARBURETOR
Hugh S. Brown, Wauwatosa, and Werner E. Armstrong and Joseph V. Reichenbach, Milwaukee, Wis., assignors to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application September 10, 1949, Serial No. 114,982
4 Claims. (Cl. 123—119)



1. In a carburetor for internal combustion engines: a hollow elongated body providing a mixture passage opening to one end of the body, and an attaching flange on said end of the body having two sets of diametrically opposite bolt holes disposed at ninety degrees to each other and through either of which screws may be passed for securing the arm to an engine cylinder over the mouth of its intake port, one set of holes being used for vertical engines and the other for horizontal engines, in either case the body being in the same position of rotation about its longitudinal axis.

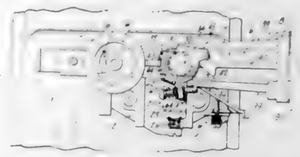
2,529,243
AUTOMATIC CONTROL FOR CARBURETOR THROTTLE VALVES
Hugh S. Brown, Wauwatosa, and Werner E. Armstrong and Joseph V. Reichenbach, Milwaukee, Wis., assignors to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Original application September 10, 1949, Serial No. 114,982. Divided and this application July 31, 1950, Serial No. 176,881
4 Claims. (Cl. 123—108)

1. In a carburetor for internal combustion engines equipped with a governor for controlling engine speed by adjusting the carburetor throttle valve, and having a speed responsive motion producing element constrained to movement in a fixed plane, the carburetor having an axially straight induction passage and the throttle valve being mounted to turn on an axis intersecting that of the induction passage; means mounting the carburetor with the axis of its induction passage parallel to the plane of movement of the motion producing element; a wire link having one end attached to the throttle valve eccentrically to its axis of rotation and its other end attached to the motion producing element, said wire link having a loop medially of its ends; a pivoted lever mounted to swing about a fixed pivot towards and from the loop in the wire link and in a plane substantially parallel to the axis of the induction passage and in line with the plane of movement of the speed responsive motion producing element; adjustable stop means for limiting swinging movement of the pivoted lever towards the loop in the wire link; and a



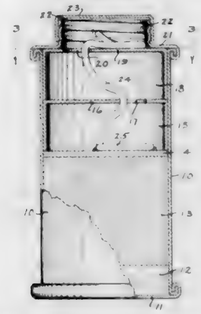
coiled tension spring having one end attached to said pivoted lever and its other end attached to the loop in the wire link so that the end portion of the wire link between its loop and its connection with the motion producing element of the governor carries the spring force to the governor without imposing side thrust upon the throttle valve.

2,529,244
THROTTLE VALVE FOR CARBURETORS
Hugh S. Brown, Wauwatosa, and Werner E. Armstrong and Joseph V. Reichenbach, Milwaukee, Wis., assignors to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Original application September 10, 1949, Serial No. 114,982. Divided and this application July 31, 1950, Serial No. 176,882
7 Claims. (Cl. 251—152)



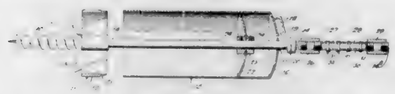
1. In a carburetor: a body having a mixture passage; the body having a cylindrical valve socket intersecting the mixture passage; a boss cast integrally with the body adjacent to the mouth of the valve socket, said boss providing a fixed stop abutment; another boss cast integrally with the body adjacent to the mouth of the valve socket and substantially diametrically across the socket from the first boss, the second boss having its portion nearest the valve socket notched to provide a ledge; a throttle valve rotatably seated in the socket; a segment-like flange on the outer end of the valve engaged under the ledge to hold the valve in place, disengagement of the flange from under the ledge to permit removal of the valve requiring rotation of the valve beyond one of its normal limits of rotation; an arm extending radially from the valve in position to collide with one side of the fixed stop abutments to define one of the limits of rotation of the valve; another arm extending radially from the valve; and a screw threaded in said other arm and engageable with the other side of the fixed stop abutments to define the other limit of valve rotation, the adjustability of the screw enabling rotation of the valve to the position at which its segment-like flange clears the ledge.

2,529,245
INSECTICIDE DIFFUSER
Robert A. Cooper, Bloomington, Ind., assignor to Paul M. Laymon, Spencer, Ind.
Application March 27, 1946, Serial No. 657,582
4 Claims. (Cl. 43—125)



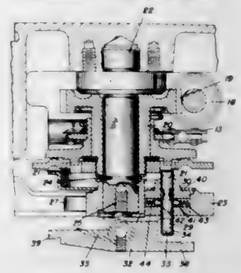
1. A device for diffusing an insecticide comprising a can, a fire resistant floor in the can; a candle over said floor, within which candle an insecticide is dispersed; vertically spaced baffles in the can over said candle, said baffles having staggered passageways therethrough; and a candle igniting fuse extending past said baffles to have an outer exposed end portion and an inner end portion adjacent said candle for initiating ignition thereof; said candle comprising said insecticide, a mixture of powdered zinc, hexachlorethane, ammonium perchlorate, calcium carbonate, orange shellac, ammonium chloride, and a binding agent of at least one of the group of castor oil and linseed oil, said candle being firmly compacted.

2,529,246
LATERAL DRILL
Walter W. Detrick, Quincy, Ill.
Application August 16, 1947, Serial No. 769,054
7 Claims. (Cl. 255—20)



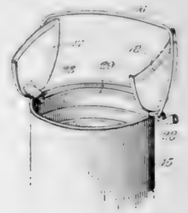
4. In a lateral drill, a plurality of pipe sections connected for quick release thereof and for rotation when connected, a cutter fixed to the forward end of the pipe, means for rotating the pipe sections together, a plurality of non-rotating cans in spaced-apart relation having at least the rear walls thereof apertured to provide bearings freely receiving said pipe sections, the foremost can being open at its forward end for receiving material from said cutter, a clean-out plate fixed to said pipe and substantially closing the rear portion of said foremost cylinder, and an abutment member equipped with rotatable means for advancing said pipe sections, said abutment member comprising a fixed member adapted to engage a wall and equipped with a screw, and a rotatable member having a socket receiving the end of a pipe section and a threaded recess receiving said screw.

2,529,247
CLUTCH AND DRIVE MECHANISM FOR IRONING MACHINES
Walter C. Erler, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application August 27, 1947, Serial No. 770,814
1 Claim. (Cl. 192—25)



In a clutch mechanism, a driving member adapted to be mounted upon and to rotate with a shaft, a notched clutch member forming a part of said driving member, a cam member adapted to be mounted for rotation upon said shaft at a point adjacent said notched clutch member, a sliding pin mounted in said cam and capable of being pushed into one of said notches in said clutch member in order to engage said cam with said driving member, a lever pivotally mounted upon the face of said cam, a cross pin extending transversely from the end of said sliding pin, a notch in said lever into which said cross pin on said sliding pin fits forming a loose connection between said sliding pin and said lever in order that movement of said lever will either push said pin into engagement with said clutch member or will withdraw said pin from contact with said clutch member, a portion of said pin shaped to form a groove encircling said sliding pin, spring pressed balls pushing against said sliding pin adjacent to said groove, said spring pressed balls being adapted to cause said pin to be withdrawn further away from said clutch member after the initial withdrawing movement has been imparted to said pin by movement of said lever, said notch in said lever being sufficiently large to allow said further withdrawal of said sliding pin without further movement of said lever.

2,529,248
CONTAINER COVER AND HINGE
Joseph Fleck, Asbury Park, N. J.
Application April 3, 1946, Serial No. 659,194
2 Claims. (Cl. 220—36)



2. In combination, a container, a two-part cover for closing the top of said container, clip hinges fastened to said cover parts and being pivoted to the top edge of said container and extending outwardly and upwardly, a handle hav-

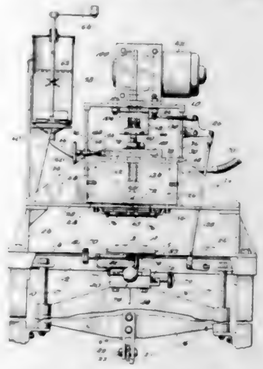
ing its ends loosely fastened in the upwardly extending portions of said clip hinges, said points of attachment of the ends of said handle being in vertical planes falling outside of the pivot points of said hinges on said container, each of said clip hinges having U-shaped portions above the points of receiving the ends of said handle for engaging said handle to maintain the same substantially upright when said cover parts are closed over said container, said U-shaped portions moving out of engagement with said handle as said handle is pushed downwardly to cause the cover parts to pivot upwardly thereby opening said container, said cover parts when pivoted upwardly engage said handle after being moved out of its upright position but before it falls to the level of the top of the container.

2,529,249
SAW LUBRICANT HOLDER
Edmund L. Flood, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application July 12, 1946, Serial No. 683,187
3 Claims. (Cl. 143—158)

2. Saw blade lubricating means comprising a base plate having an orifice therein, means for pivotally mounting said base plate adjacent to a saw blade, means for releasably positioning said base plate in a location to which it has been moved, an elongated container means positioned at an acute angle to said base plate and supported by the base plate and having a stick of solid lubricant therein, said elongated container means being juxtaposed at its lower end to said orifice in said base plate, gravity actuated means movably mounted on said container means and adapted to act upon an end of said stick of solid lubricant automatically to feed the opposite end of said stick from said container means through said orifice in said base plate, and means acting on said gravity actuated feed means to prevent wedging of said feed means within said container means.

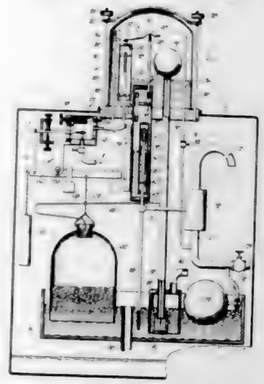
2,529,250
STENCILING MACHINE FOR APPLYING LUMINOUS PAINT
Rufus G. Fordyce, Glencoe, Ill., assignor to Luminous Processes, Inc., Chicago, Ill., a corporation of Delaware
Application October 10, 1946, Serial No. 702,557
15 Claims. (Cl. 101—123)

3. In a stenciling machine, means forming a substantially closed chamber including a stencil screen which serves as a wall of said chamber, a shaft journaled for rotation about an axis substantially perpendicular to the plane of the screen, a squeegee carried at the end of said shaft in contact with said screen, a thrust collar journaled on said shaft, a rock shaft extending transversely of the first shaft in said chamber



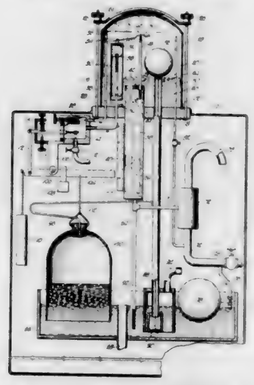
with one end of said rock shaft extending through a wall of said chamber, an arm on said rock shaft connected to said thrust collar, and adjustable spring means outside the chamber arranged to produce a torque in said rock shaft in a direction to urge the thrust collar and the other shaft toward the screen for pressing the squeegee into operative contact therewith.

2,529,251
VOLUMETRIC GAS FEEDING APPARATUS
Elmer E. Harper, Monrovia, Calif.; Esther Pardee Harper, executrix of Elmer E. Harper, deceased
Application January 8, 1945, Serial No. 571,878
4 Claims. (Cl. 210—28)



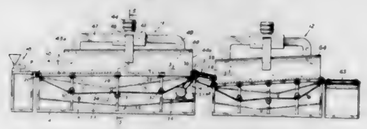
1. Apparatus for the feeding of gases at a substantially uniform rate, comprising a regulating chamber having a gas intake and a gas outlet, vacuum producing means communicating with said gas outlet, means for regulating the flow through said gas intake and said gas outlet respectively, and a combination visible flow indicating and metering structure included in the discharge flow line from said gas outlet and subject to the vacuum effect of said vacuum producing means, said structure comprising a transparent-walled water chamber divided by a partition into a lower manometer compartment and an upper gas bubbling compartment communicating directly with said gas outlet, and a tube carried by said partition and providing an overflow connection between said lower compartment and the upper portion of said gas bubbling compartment.

2,529,252
PRESSURE ACTUATED CONTROL MECHANISM
Elmer E. Harper, Monrovia, Calif.; Esther Pardee Harper executrix of Elmer E. Harper, deceased
Application January 8, 1945, Serial No. 571,879
3 Claims. (Cl. 210—28)



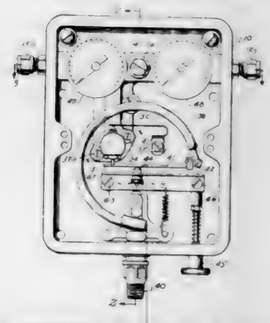
1. Control mechanism comprising means providing a regulating chamber having a gas intake and a gas outlet and also a liquid level therein below said intake and outlet, vacuum producing means communicating with said outlet, a control valve enclosed within said chamber in position for directly regulating the flow through said outlet, and float-actuated means comprising a float member operatively connected with said valve and enclosing said gas intake and responsive to changes in pressure in said chamber for correspondingly regulating said control valve.

2,529,253
APPARATUS FOR COOKING AND CANNING MEAT PATTIES
Julian Hoffman, New York, and Alexis Gruff, Flushing, N. Y., assignors to Claridge Food Co. Inc., Murray Hill, N. Y., a corporation of New York
Application April 17, 1947, Serial No. 742,094
3 Claims. (Cl. 99—386)



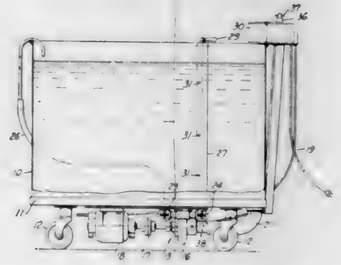
1. A device for cooking ground meat patties comprising an endless metal conveyor having an upper flight for receiving a plurality of ground meat patties and a lower flight, means supporting said conveyor for movement, a hood enclosing a major portion of said upper flight, a plurality of infra-red lamps mounted in said hood for directing infra-red radiations toward said upper flight of said conveyor, a reflector in and spaced from said hood having apertures for exposing said lamps, a prewarming chamber at one end of said hood overlying and enclosing a portion of said upper flight, fan means for introducing air between said reflector and said hood for cooling said lamps, means directing at least part of the air from between said reflector and said hood into said prewarming chamber and means for moving said conveyor at a predetermined speed to cook at least partially the patties on said upper flight.

2,529,254
CONTROLLER
Clifford B. Ives, Tenafly, N. J., assignor to Kieley & Mueller, Inc., North Bergen, N. J., a corporation of New York
Application February 24, 1947, Serial No. 730,650
8 Claims. (Cl. 137—153)



2. In a condition controller, a frame, a valve casing, a valve mounted in said casing and having operating stems extending in opposite directions from said valve and casing, a mount on said frame on which said valve casing is rotatably moved selectively to direct or reverse positions, a condition responsive element carried by said frame, and a connector movable by said condition responsive element and contactable with one of the valve stems to move the valve in direct or reverse directions in accordance with the position of the valve casing on said frame.

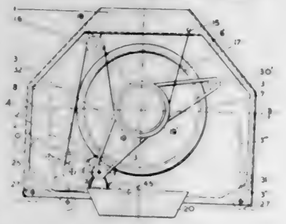
2,529,255
HYDROMASSAGE DEVICE
Charles A. Jobe, Oakland, Calif.
Application June 21, 1949, Serial No. 100,321
2 Claims. (Cl. 4—180)



1. In a device of the character described, a tank adapted to contain a body of liquid and large enough to accommodate the human body, a drain at one end of said tank, a pair of inlet devices,

the first of said inlet devices comprising a rotatable vertical member mounted adjacent one wall of said tank and the second of said inflow devices comprising a flexible member adapted to be positioned anywhere around the upper edge of said tank, air inlet means, pump means adapted to withdraw liquid from said tank through said drain to mix the same with air from said inlet means and to expel the same through either or both of said inlet means, and controls for said pump and said air inlet means.

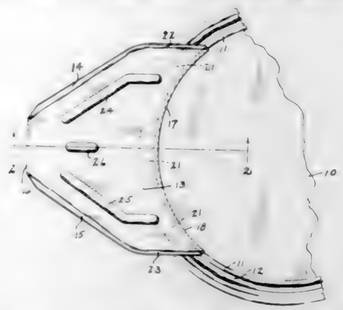
2,529,256
CONCRETE MIXER
Eugène Keel, Brussels, Belgium
Application January 27, 1948, Serial No. 4,589
In Switzerland April 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires April 6, 1965
7 Claims. (Cl. 259—160)



1. A concrete mixer comprising a wheeled frame, a horizontal transversal spindle carried directly thereby, a pivoting member adapted to pivot round said spindle, a rotary mixing drum the axis of which is rotatably carried by said pivoting member along a line parallel with the spindle and at a distance therefrom to move along an arc with the spindle as a center, a prime mover carried by said frame, mechanical means for operatively connecting the prime mover with said drum and including a driving wheel coaxial with the spindle and driven by the prime mover and transmission means between said wheel and said drum and further means controlled by the prime mover for bringing the pivoting member into any desired angular position.

2,529,257
PAINTBRUSH HOLDER
Harmon C. Kerby, Indianapolis, Ind., assignor to Woodrow Skirvin and B. K. Reeves, doing business as B & W Manufacturing Company, Indianapolis, Ind.
Application November 9, 1946, Serial No. 709,058
1 Claim. (Cl. 220—90)

A paint brush holder for use with a paint bucket having an inturned annular flange around its top edge, comprising in combination a planar floor member having an inner, arcuate edge portion conforming substantially to the curvature of the flange on said bucket, said arcuate edge portion extending downwardly over said flange; a plurality of elastic tongues extending below said arcuate edge portion; a foot on each of said tongues turned outwardly to engage the under side of said flange; said floor member having opposite side edge portions extending outwardly from the ends of said arcuate edge portion in parallel relation to each other and then converging inwardly one toward the other to an outer floor terminal transverse edge; flanges turned up from each of said side edge portions; said floor member and said flanges defining an opening at said terminal edge to receive the handle of a paint brush; and a pair of upwardly extending ribs on said floor member spaced inwardly from and substantially parallel to said side edge portions, said floor and edge flanges being proportioned, when a brush is positioned on said floor with its handle extending outwardly through said opening be-

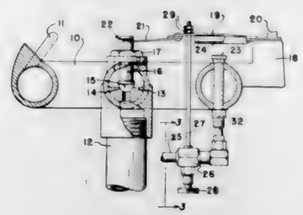


yond said transverse edge and with the heel of said brush in abutment with the converging side flanges, to have the bristles of said brush overhang the arcuate edge portion and have the brush held against lateral and outward movement over said floor member, and to have the brush held in spaced above relation over said floor by said upwardly extending ribs.

2,529,258
APPARATUS FOR ARTIFICIAL RESPIRATION
Fernando González Lobo, Buenos Aires, Argentina
Application September 21, 1946, Serial No. 698,470
In Argentina July 4, 1946
1 Claim. (Cl. 128—28)

An apparatus for artificial respiration, comprising, in combination, a breast plate, a back plate, flanges connected with said plates and located opposite each other when the plates are joined, an elastic packing between adjacent surfaces of said flanges, locking means carried by said flanges for providing an airtight lock therebetween, said plates having sleeve openings and a neck opening formed therein, flanges around the edges of said sleeve openings, resilient sleeves, washers carried by said sleeves and located opposite the last-mentioned flanges, bayonet locks between said washers and the last-mentioned flanges to provide an airtight lock between said plates and said sleeves, a padding upon the inner surfaces of said plates, means forming two separate pneumatic chambers adjacent the inner surfaces of said breast plate and said back plate respectively, resilient sealing means carried by said plates and enclosing said neck opening, and separate means for pumping air into and out of said chambers and including a one-way valve in one of said chambers.

2,529,259
THERMOSTATIC SAFETY CONTROL APPARATUS FOR GASEOUS FUEL BURNERS
Wilmer E. McCorquodale, Orange, Tex.
Application September 9, 1947, Serial No. 772,989
2 Claims. (Cl. 158—117.1)

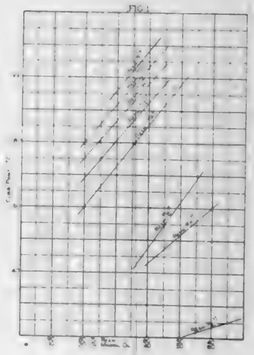


1. A gas burning apparatus comprising a main gas burner including a hollow body member having a gas inlet located centrally thereof and adjacent its base, a valve seat at said inlet, a valve plug cooperative with said valve seat for shutting off the flow of gas to the burner when the valve is closed, a securing nut positioned on the upper portion of the body member directly above said valve seat, a valve stem extending from said valve plug through said securing nut and slidably mounted therein, a pilot burner positioned to light the main burner, a bimetallic thermostatic element above the pilot burner extending from adjacent the outer periphery of said body member radially inward and adapted to be heated by the pilot flame, one end of said thermostatic element being securely fixed adjacent said outer periphery and the other end being free to move vertically upon flexing of the thermostatic element, an extension arm directly connecting the movable end of said thermostatic element with the upper end of said valve stem to close the valve and thereby shut off the flow of gas to the main burner upon extinguishment of the pilot light, means for supplying gas to said pilot burner, a valve operatively associated therewith for shutting off the gas flow and including resilient means constantly urging the valve toward closed position, said valve being disposed beneath a movable portion of said thermostatic element, and a vertically positioned rod extending from said last-named valve and connecting slidably with a movable portion of said thermostatic element, said rod being engageable with the thermostatic element when the latter is actuated upwardly, whereby said last-named valve is maintained in open position in opposition to said resilient urging means when the thermostatic element is flexed upwardly but closes simultaneously with the main burner valve whenever the pilot light becomes extinguished.

2,529,260
TILE AND BINDER FOR THE SAME
Paul O. Powers, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application September 17, 1942, Serial No. 458,697
12 Claims. (Cl. 260—33.6)

6. A tile binder containing 50 to 80% of resin consisting principally of coumarone-indene resin and 50 to 20% of plasticizer consisting principally of mineral oil which is non-volatile at ordinary room temperatures, said resin and plasticizer having a limited incompatibility with each other such as to produce a cloud-like separation of resin and plasticizer in the binder at a temperature between 20° and 70° C., said binder having a cloud-like separation of resin and plasticizer resulting from the limited incompatibility of resin and plasticizer characterized by a cloud point between 20° and 70° C. when the cloud point is determined by heating the binder until the resin and plasticizer are in solution and noting the temperature at which the binder becomes opaque on cooling.

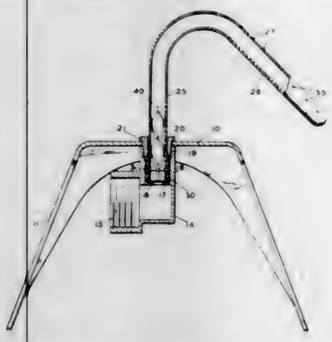
2,529,261
TILE AND BINDER FOR THE SAME
Paul O. Powers, Columbus, Ohio, assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Original application September 17, 1942, Serial No. 458,697. Divided and this application December 14, 1949, Serial No. 132,910
4 Claims. (Cl. 260—33.6)



3. A tile binder containing 50% to 80% of polystyrene resin having a molecular weight above 1000 as determined by the Staudinger method and 50% to 20% of plasticizer consisting principally of mineral oil which is non-volatile at ordinary room temperatures, said resin and plasticizer having a limited incompatibility with each other such as to produce a cloud-like separation of resin and plasticizer in the binder at a temperature between 20° C. and 70° C., said binder having a cloud-like separation of resin and plasticizer resulting from the limited incompatibility of resin and plasticizer characterized by a cloud point between 20° C. and 70° C. when the cloud point is determined by heating the binder until

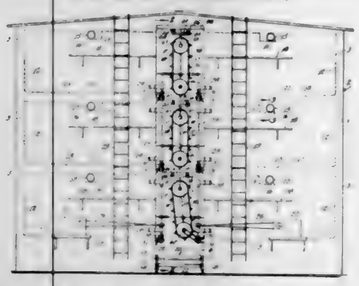
the resin and plasticizer are in solution and noting the temperature at which the binder becomes opaque on cooling.

2,529,262
SPRINKLER
Donald E. Ratliff, Bend, Oreg.
Application January 3, 1947, Serial No. 720,083
2 Claims. (Cl. 299—69)



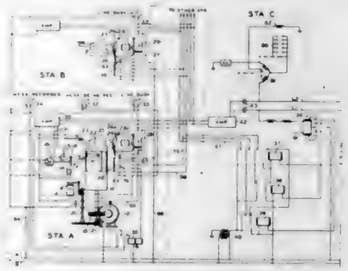
1. A rotary sprinkler comprising a supporting member comprising a flat top portion having an opening therethrough, a first fitting having its upper end engaging the lower surface of said top portion and surrounding said opening, said first fitting having internal threads near its upper end, an adjacent smooth bore portion, and an internal flange at the lower end of said smooth bore portion, a second fitting disposed in said opening and having external threads engaging said internal threads and an external flange engaging the upper surface of said top portion, and a rotatable sprinkler device having its lower end coaxially disposed within said fittings, said sprinkler device comprising a bearing sleeve disposed in the space defined by said smooth bore portion, and said internal flange and the lower end of said second fitting overhanging the ends of said bearing sleeve to retain said sprinkler device in position.

2,529,263
UNLOADING, CURING, STORING, AND RELOADING PLANT
Emmet P. Reese, Shoup, Idaho
Application September 8, 1945, Serial No. 615,204
4 Claims. (Cl. 241—101)



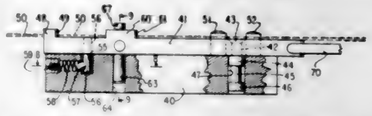
1. In a curing plant, the combination of oppositely arranged compartments, raking means interposed between said compartments, means for pivotally supporting the upper end of said raking means permitting movement of the lower end of said raking means into operative relation with either of said compartments and a stabilizer pivotally supported on said raking means and comprising telescoping ends adapted to be moved into contact with the walls of said compartments for holding said raking means in operative relation with either of said compartments.

2,529,264
COMBINED FACSIMILE AND CODE SIGNALING SYSTEM
Garvice H. Ridings, Summit, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application March 8, 1947, Serial No. 733,295
7 Claims. (Cl. 178—5.6)



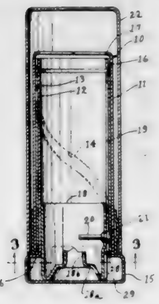
5. In a telegraph system, a facsimile transmitter, a facsimile recorder, a pair of conductors comprising a facsimile transmission circuit connecting said transmitter and said recorder, code transmitting apparatus at one terminal of said circuit, code receiving apparatus at the other terminal thereof, said code transmitting and receiving apparatus being connected to one conductor of said pair, means at the recorder for transmitting direct current control signals over the other conductor of said pair, means at the transmitter responsive to said direct current signals for starting and stopping the facsimile transmission, and means for electrically isolating said facsimile transmitter and receiver from said code and facsimile control signal transmitting and receiving means whereby facsimile signals, facsimile control signals and code signals may be transmitted and received simultaneously over said circuit.

2,529,265
DEVICE FOR INDEXING CONTACT SPRINGS IN CONTACT-WELDING APPARATUS
Morris Rose, Chicago, and Jerry John Zak, Lombard, Ill., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application January 18, 1947, Serial No. 722,830
13 Claims. (Cl. 113—99)



5. A device for indexing contact spring blanks, in a contact-welding machine, to dispose the contact-receiving portion thereof selectively in a plurality of predetermined positions relative to the contact-welding means of such machine, said device comprising an elongated cross-sectionally generally rectangular member forming an indexing element for receiving and holding a spring blank in predetermined position, a base for said indexing element, guide means on said member substantially at one end thereof forming lateral guides for a spring blank placed thereon, locating means disposed on said member substantially near the opposite end thereof for positioning the spring blank placed thereon, means for pivotally mounting said indexing element on said base for angular displacement thereon including a pivot member extending therefrom in journal engagement with said base, means disposed between said guide means and said locating means for adjusting the extent of angular displacement of said indexing member relative to said base, a holding member extending from said indexing element into said base, and means in said base coacting with said holding member for resiliently holding it and therewith said indexing member in either extreme position of angular adjustment.

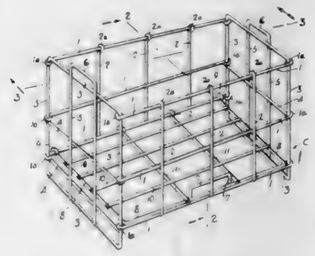
2,529,266
SAFETY FEATURE FOR SWIVEL LIPSTICK CONTAINERS
Donald A. Seaver, West Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application January 10, 1948, Serial No. 1,574
6 Claims. (Cl. 206—56)



1. In a holder for cosmetic sticks and the like, an outer casing, a tubular shell rotatable in said casing, said shell having an operating head at one end thereof, a cup for carrying a cosmetic stick, said shell having a longitudinal slot and said casing having a helical groove in its inner wall, said groove and slot cooperating to advance and retract said carrying cup upon relative rotation of said shell and casing, and a cover cap engaging ring surrounding that end of said casing adjacent the operating head, said ring having a narrow inturned flange at one end and integral equally spaced lugs extended inwardly from the edge of said flange, said lugs being designed to concentrically space said ring relative to said shell, and means on one lug nonrotatably interconnecting said ring to said shell.

2,529,267
COLLAPSIBLE CONTAINER
Milton Sloane, Hartford, Conn.
Application June 14, 1947, Serial No. 754,628
1 Claim. (Cl. 220—6)

A collapsible container which has a front longitudinal wall and a rear longitudinal wall and end-walls, each said wall being of skeleton construction, each end-wall being an end-wall edge-frame of substantially rectangular shape, each said end-wall edge-frame having front and rear vertical legs and top and bottom transverse legs, each longitudinal wall consisting of a plurality of parallel longitudinal-wall rods, each longitudinal-wall rod having end-loops which turnably engage only a respective vertical leg between the top and bottom of the respective end-wall edge-frame, the end-loops of each top longitudinal-wall rod being located substantially in a respective top corner of a respective end-wall edge-frame, each said end-wall edge-frame having at least one end-wall transverse rod which underlies and substantially abuts the end-loops of respective longitudinal-wall rods of said front and rear longitudinal walls which are located below the top longitudinal-wall rods, a bottom wall which has a bottom-wall edge-frame, said bottom-wall edge-frame having bottom-wall transverse legs which have end-loops which turnably



engage the bottom longitudinal-wall rod of said rear longitudinal wall and which are located between and substantially abut the end-loops of said bottom longitudinal-wall rod of said rear longitudinal wall, said bottom-wall edge-frame having a front bottom-wall rod which overlies and abuts the bottom longitudinal-wall rod of the front longitudinal wall when said container is set up, said bottom wall having additional rods fixed to said bottom-wall edge-frame, the bottom longitudinal-wall rod of said front longitudinal wall having a U-shaped latch-frame which is closed at its top and which has vertical legs which are fixed to the inner face of said bottom longitudinal-wall rod of said front longitudinal wall, said latch-frame frictionally abutting and releasably retaining said front bottom-wall rod, said bottom wall having at least one transverse rod which substantially abuts a vertical leg of said latch-frame when said container is set up.

2,529,268
INNERSPRING CONSTRUCTION FOR MATTRESSES, CUSHIONS, AND THE LIKE
Morris E. Tauss, Rockaway Park, N. Y.
Application November 3, 1949, Serial No. 125,281
1 Claim. (Cl. 5—351)

An innerspring construction for mattresses, cushions and the like, comprising a plurality of coil springs, a frame securely fastened to the top of some of said springs, a second frame securely fastened to the bottom of some of said springs, a plurality of bars disposed against said frames, on the inside thereof, a pair of relatively flexible fiber-boards disposed adjacent said frames on the outside thereof, and fastening members fastening some of the bars and one of

the fiber-boards to one of said frames and additional fastening members fastening the rest of

said bars and the second fiber-board to the other of said frames.

2,529,269

PARAFORMALDEHYDE FROM FORMALDEHYDE-CONTAINING GAS

Joseph Frederic Walker, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 18, 1948, Serial No. 33,872
2 Claims. (Cl. 260—340)

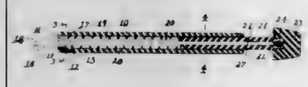
1. The process of producing paraformaldehyde which comprises passing a formaldehyde-containing gas into contact with paraformaldehyde particles at a temperature above the dew-point temperature of the gas but below the temperature at which the partial pressure of the formaldehyde in the gas equals the decomposition pressure of paraformaldehyde, said gas consisting essentially of formaldehyde, water vapor and gaseous substantially inert material, the latter containing less than about 5% by weight of the formaldehyde of gas that is condensable between room temperature and the temperature of operation, and containing sufficient formaldehyde that the partial pressure of the formaldehyde will be above the decomposition pressure of paraformaldehyde at a temperature above the dew-point temperature of the gas.

2,529,270

SELF-PIERCING AND SELF-HOLDING TEST PROD

Robert Webster, Upper Darby, Pa.

Application February 26, 1949, Serial No. 78,553
4 Claims. (Cl. 173—273)



1. A self-piercing and self-holding test prod comprising a tubular body of insulating material, a metallic plug fixed in one end of said body, a tubular shield of insulating material telescopically mounted in the opposite end of said body, a slidably mounted push rod projecting through the plug, body and shield so that the ends extend outside of said plug and shield, the end adjacent the plug carrying a V-shaped jaw, the inside angle of said jaw constituting a nook facing the outer end of the plug, means on the opposite end of said push rod to function as a stop for the shield, a spring within the body engaging the plug and shield to urge the latter outward and thereby retract the jaw, and a piercing element fitted in the plug parallel to the axis of the body for cooperation with said jaw and in line with the nook of said jaw, said piercing element being in electrical communication with the push rod through the metallic plug.

2,529,271

MARINE ANCHORAGE MEANS

Courtney P. Winter, Chambersburg, Pa., assignor to the United States of America as represented by the Secretary of the Navy

Application November 16, 1931, Serial No. 575,443
10 Claims. (Cl. 102—15)

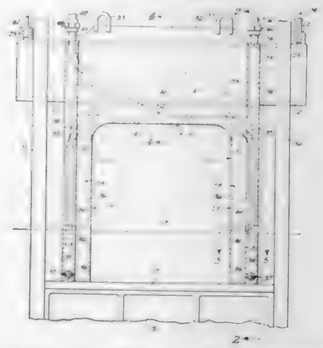
10. As an article of manufacture, a wheel having equally spaced cut-out portions located in its periphery and swingably mounted inwardly displaceable blocking means normally resiliently closing each of said cut-out portions, and maintaining the periphery of the wheel relatively smooth.

2,529,272

FLARED JAMB FURNACE DOOR FRAME

John Yoxall, Detroit, Mich.

Application March 16, 1948, Serial No. 15,093
3 Claims. (Cl. 122—499)



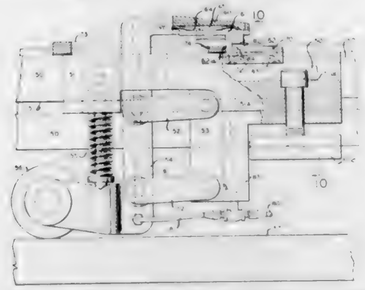
1. In a hollow liquid-cooled furnace door frame and skew back channel cooler, hollow jamb portions forming sides of the frame, a hollow lintel portion forming a top of the frame, hollow elongated flared jamb extensions extending upwardly along and projecting inwardly from said jamb portions toward the furnace chamber, a partition between each jamb portion and its respective jamb extension dividing the same into separate liquid channels, cooling liquid inlet and outlet conduits connected to said portions and communicating with said jamb extensions, and a hollow lintel extension extending between the tops of said jamb extensions and having liquid passageways communicating therewith, said lintel extension extending inwardly toward the furnace chamber from said lintel portion.

2,529,273

SHEET REGISTER MECHANISM

Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application June 18, 1947, Serial No. 755,327
20 Claims. (Cl. 271—58)



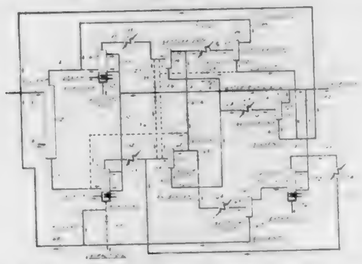
4. In a sheet registering mechanism, a gripper comprising upper and lower jaws and an abutment for engaging the edge of a sheet between said jaws, means for frictionally moving the said gripper toward a sheet to be registered to bring the said abutment into engagement with an edge thereof and for frictionally moving the gripper and a sheet held thereby for registering the said edge of the sheet, means for closing the jaws to grip the sheet with the abutment in engagement with the said edge and preliminary to the said registering movement, and a stop for limiting movement of the said gripper and a sheet held thereby for registering the said edge of the sheet.

2,529,274

SOLVENT REFINING OF LIGHT OILS

George B. Arnold and Louis Kovach, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application September 1, 1948, Serial No. 47,204
5 Claims. (Cl. 196—14.26)



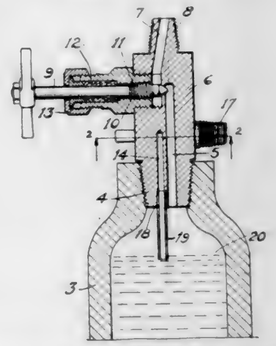
1. A method of solvent refining of hydrocarbon oil boiling in the range of about 275 to 600° F., relatively low in aromatic constituents and containing at least a small proportion of constituents having true boiling points in the range of the solvent boiling temperature and below with an organic solvent liquid at least partially miscible with water at 100° F. and with which, in the presence of water, refined oil constituents of the feed form azeotropes which comprises subjecting said oil to liquid-liquid extraction with said solvent thereby forming extract and raffinate phases respectively, each of said phases comprising oil and solvent liquid, separately subjecting each of said phases to azeotropic distillation in the presence of water added in substantial amount to the zone of distillation thereby forming distillates each comprising a ternary azeotrope of oil, solvent and water, the distillate from the raffinate phase containing substantially all of the solvent present therein and the distillate from the extract phase containing substantially all of the hydrocarbon present therein, separately condensing said distillates, separately subjecting each condensate in the presence of water to settling at a relatively high temperature in the range about 200° F. and higher thereby forming primary phases respectively rich in oil and water, each primary phase containing some solvent liquid, separately withdrawing said primary phases, subjecting primary oil-rich liquid to settling at relatively low temperature of about 70–150° F. thereby forming secondary phases respectively comprising mainly oil and mainly solvent, separately withdrawing said secondary phases, recycling secondary oil-rich phase to the raffinate phase azeotropic distillation, subjecting primary water-rich liquid to settling at a relatively low temperature of about 70–150° F. thereby forming tertiary phases comprising respectively mainly water and mainly solvent, separately withdrawing said tertiary phases, recycling tertiary water phase at least in part to said azeotropic distillations and recycling tertiary solvent phase to said liquid-liquid extraction.

2,529,275

TWO-PORT VALVE FOR VOLATILE LIQUID CONTAINERS

Adam F. Blumer and Eugene J. Verret, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 13, 1947, Serial No. 791,576
1 Claim. (Cl. 62—1)



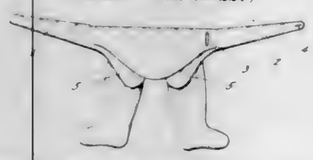
In combination with a receiver vessel adapted to contain liquefied volatile materials, and having a threaded orifice at one end, a closure for said orifice, comprising a solid body member, a threaded orifice closure element integral and concentric with the member, adapted for fluid and pressure tight engagement with said vessel orifice, a threaded longitudinal nipple integral and concentric with the other end of said member, adapted for fluid and pressure tight engagement with filling or evacuating means for said vessel, a threaded lateral nipple integral with the body member at an intermediate point on a side wall portion thereof, in angular relationship thereto, adapted for fluid and pressure tight connection to venting means for the vessel, a pair of passageways extending longitudinally of said body member, one opening inwardly through said orifice closure element, and the other inwardly

through said longitudinal nipple, each passageway terminating within the body member in spaced, parallel, overlapping relationship one to another, a second pair of passageways in said body member, of which one opens inwardly through said lateral nipple, and the other inwardly through said orifice closure element, each of said passageways terminating within the body member in spaced, overlapping, angular relationship one to another, a capillary dip-tube element rigidly secured in the end of the latter passageway opening through the said orifice element, extending from said element into the interior of said vessel, a valve port connecting the terminal ends of each pair of passageways within said closure member and needle valve elements carried by said body member for each of the valve ports.

2,529,276
BRASSIÈRE
Emma G. Borowick, New York, N. Y.
Application February 5, 1948, Serial No. 6,417
2 Claims. (Cl. 2—42)

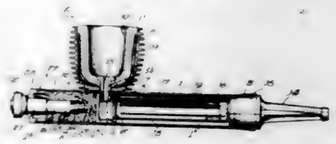
1. In a brassière including a body portion having ends, breast pockets and an upper marginal strip extending from end to end and projecting upwardly from said body portion, a shaping strap disposed above said pockets and below the center part of said strip, said shaping strap being secured to said strip at its lower edge and to said body portion at its upper edge in the region directly above said pockets, shoulder straps each attached to said marginal strip adjacent the said ends of the body portion, and resilient means for attaching said straps above the center of said pockets, said resilient attaching means including resilient members attached to said marginal strip, said straps being passed through and attached to said resilient members, and a support band extending from end to end and projecting below said body portion and attached to said body portion along the edge opposite said marginal strip and having a resilient section therein.

2,529,277
INFANT'S STOMACH-BINDER AND LEGGING COMBINATION GARMENT
Emma Borowick, New York, N. Y.
Application July 13, 1949, Serial No. 104,524
1 Claim. (Cl. 2—227)



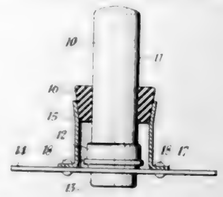
A child's stomach-binder and legging combination having a front panel provided with a slot, arms projecting from each side of said panel, the arm on the side of the panel adjacent the slot extending partially around the wearer's waist region while the opposite arm passes through said slot to meet the first arm to fasten the garment about the wearer, and having leggings with open upper ends attached at their front upper edge to the opposite sides of the lower edge portion of said front panel, the back upper edge of said leggings being free to permit insertion of the wearer's legs, the lower regions of the leggings being adapted to prevent the exposure of the wearer's feet.

2,529,278
COMBINED TOBACCO-SMOKING PIPE AND PYROPHORIC LIGHTER
Fredrick H. Bowers, Kalamazoo, Mich.
Application June 28, 1945, Serial No. 602,085
1 Claim. (Cl. 131—185)



A smoking pipe, comprising a stem, a transversely disposed partition received in the stem, dividing the same into separate and opposed longitudinally aligned outwardly opening chambers, a substantially right-angularly disposed flange on and about the outer marginal portion of said partition, snugly engaging adjacent portions of the walls of said stem, a portion of said flange and an adjacent portion of said stem having registering openings formed therein, the opening in the flange being screw-threaded, a bowl having a screw-threaded opening in its bottom, a screw-threaded nipple engaged through the openings in the stem and flange threadedly engaged in the latter and threadedly engaged in the screw-threaded opening in the bowl bottom mounting said bowl on said stem in communication with one of said chambers and securing said partition against movement in said stem, and a bit engaged in and communicating with said one chamber, said remaining chamber being adapted to receive lighter means.

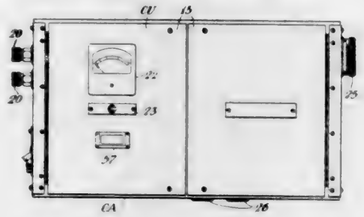
2,529,279
VACUUM TUBE SUPPORT
Edgar W. Breisch, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 14, 1948, Serial No. 38,720
7 Claims. (Cl. 250—27.5)



1. A vacuum tube support for protection of a tube when it is inserted in a socket mounted on a housing panel, comprising, an annular shell having dimensions for it to surround the tube to be protected with a given clearance, said shell having one end secured to said panel coaxial with the tube socket and its free end flared to form a conical seat, said shell of a length for its free end to extend above the base of said tube, and a ring of flexible "Silicone" like plastic material having

an inside diameter to slip over the tube body and its outer surface wedge shaped to fit said conical seat of said shell.

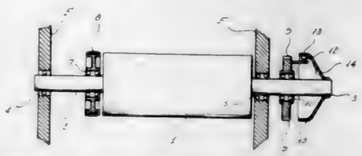
2,529,280
COUPLING UNIT FOR COMMUNICATION SYSTEMS
Edgar W. Breisch, Edgewood, and Kenneth E. Doriot, Swissvale, Pa., assignors to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 28, 1948, Serial No. 41,056
4 Claims. (Cl. 179—2.5)



1. In combination, a wayside station, a line wire extending from said station and forming an element of a transmitting channel due to its distributed impedance to ground, a transmitter of carrier communication current at said station, a transformer having a primary and a secondary winding at said station, said primary winding connected to the output of said transmitter, said secondary winding having an intermediate terminal as well as two end terminals, said primary and secondary windings being proportioned for the full output of said transmitter to be developed across the two end terminals of the secondary winding and a selected portion of the output of the transmitter to be developed across said intermediate terminal and a selected one of the end terminals, said selected one of said end terminals of the secondary winding connected to ground, a capacitor and a switch at said station, said switch having a first and a second position contact, circuit means including said capacitor and said first position contact of said switch to connect said intermediate terminal to said line wire whereby the portion of the secondary winding between the intermediate and said selected end terminal is effective to supply said selected portion of the output of the transmitter to the transmitting channel, and other circuit means including said capacitor and said second position contact of said switch to connect the non-selected end terminal of the secondary winding to said line wire whereby the full secondary winding is effective to supply substantially the full output of the transmitter to the transmitting channel.

2,529,281
IDLER ROLLER DRIVE FOR CONTINUOUS WEB FEEDS
Pierre Cherigié, Paris, France, assignor to La Cellophane, Paris, France, a French company
Application January 4, 1950, Serial No. 136,811
In France January 12, 1949
3 Claims. (Cl. 74—665)

1. A drive for idler rollers for guiding continuous webs through a treating zone, comprising a roller having hubs extending axially therefrom, bearings supporting said hubs for free rotation, a driven gear journalled on one of said hubs for free rotation, a member attached to said hub and having an annular friction driving surface, a friction member carried by said gear and engaging said surface to provide a semi-positive friction drive for said roller, a pulley journalled



on one of said hubs for free rotation thereon, and means driving said pulley during acceleration periods only for applying a torque to said hub due to the friction of the pulley mounting to aid in starting the roller.

2,529,282
PHONOGRAPH RECORD
Irwin C. Clare, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 9, 1946, Serial No. 702,095
8 Claims. (Cl. 260—14)

1. A phonograph record having a grooved reproducing surface comprising a homogeneous thermoplastic binder composition consisting of cellulose acetate having a combined acetic acid content within the range of about 52% to about 58%, a plasticizer therefor in an amount within the range of about one-third to about three-fourths the weight of said cellulose acetate, a petroleum hydrocarbon-insoluble aromatic hydrocarbon-soluble resinous pine wood extract in an amount within the range of about one to about three times the combined weight of the cellulose acetate and said plasticizer, a thermoplastic phenol-aldehyde fluxing resin having a drop melting point within the range of about 65° C. to about 175° C. in an amount within the range of about 10% to about 45% of the weight of said petroleum hydrocarbon-insoluble aromatic hydrocarbon-soluble resinous pine wood extract, and a wax melting within the range of about 70° C. to about 100° C. in an amount within the range of about 1% to about 10% of the thermoplastic binder composition, and a filler admixed therewith in an amount within the range of about one to about five times the weight of said thermoplastic binder composition.

2,529,283
PREPARATION OF A SILICA-ALUMINA-MAGNESIA CATALYST
Eugene S. Corner, Roselle, and Kenneth K. Kearby, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application June 20, 1946, Serial No. 678,165
1 Claim. (Cl. 252—455)

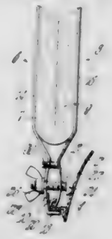
A process for the manufacture of catalytic materials suitable for the conversion of hydrocarbon oils and characterized by high stability in the presence of steam at high temperatures which comprises preparing a silica hydrogel, washing said hydrogel to remove reaction impurities therefrom, thereafter impregnating the washed hydrogel with a solution of an aluminum salt having a concentration such as to form a dried product containing about 87% silica and

about 13% alumina on a water-free basis, treating the impregnated hydrogel with an ammonical solution to decompose said aluminum salt and thereby precipitate alumina and form ammonium salts, washing the resulting product to remove the ammonium salts therefrom, thereafter mulling the alumina-impregnated hydrogel with sufficient magnesia to form a final dried product containing about 30% magnesia and thereafter drying and activating the resulting product.

2,529,284
SANITARY LINER FOR INCUBATOR TRAYS
John M. Eberhart, Punxsutawney, Pa.
Application July 17, 1946, Serial No. 684,186
1 Claim. (Cl. 119—43)

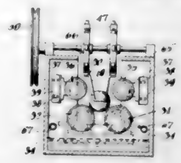
In an incubator tray having a frame provided with vertical side walls and bottom flanges, a screen bottom secured to said bottom flanges, a removable liner coextensive with and covering said flanges, said liner having overlapping corner portions positioned on said bottom flanges of the tray and having an uninterrupted wall extending adjacent the vertical side walls whereby the juncture of said vertical walls is covered by said wall of the liner.

2,529,285
DEVICE FOR HOLDING OBJECTS
George F. Felton, Millers Falls, Mass.
Application May 20, 1948, Serial No. 28,190
1 Claim. (Cl. 248—229)



A holder device for securement to an elongated gutter which is open along its upper side adjacent a portion of an automobile top which curves upwardly and inwardly relative to said gutter comprising, elongated outer and inner clamp members having lower clamp and upper portions, the lower clamp portion of said inner member adapted for disposition inside said gutter, the lower clamp portion of said outer member having an extremity turned inwardly relative to the other member for underlying said gutter, a screw in threaded engagement with the lower portion of the inner member adapted to abut the automobile top adjacent said gutter, the lower clamp portion of the outer member having a hole through which said screw extends, a nut on said screw outside the clamp portion of the outer member for acting thereon to draw the clamp portions together, a screw in threaded engagement with the clamp portion of one member and in abutment with the clamp portion of the other member to limit movement of said clamp portions towards one another, the said upper portions of the clamp members diverging outwardly and upwardly into spaced parallel relation and having yieldable material secured to inner portions thereof.

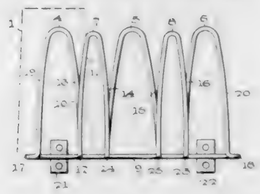
2,529,286
APPARATUS FOR RELEASING OIL FROM AND FOR REMOVING THE SURFACES FROM CITRUS FRUITS AND THE LIKE
Charles E. Fraser, Clearwater, Fla., assignor to Fraser-Brace Engineering Co., Inc., New York, N. Y., a corporation of New Hampshire
Application June 28, 1947, Serial No. 757,720
7 Claims. (Cl. 146—3)



7. In a device of the class described, the combination of means comprising a plurality of rollers forming a passageway for articles such as citrus fruits and having abrasive peripheral surfaces adapted to grate open outer surfaces of said articles, certain of the rollers comprising said means having their peripheral surfaces disposed wholly above the peripheral surface of another of said rollers, and portions of said means being normally sufficiently close together to prevent said articles from passing therebetween, means movably supporting at least one of said certain rollers adjacent opposite ends thereof for selectively varying the width of a space between said certain rollers, means for rotating said rollers to spin and bounce the articles around within said passageway between said abrasive peripheral surfaces during movement of the articles along said passageway, means adjacent said certain rollers limiting upward movement of articles during spinning and bouncing thereof within said passageway, means beneath said rollers adapted to receive material removed from the articles by said rollers, walls extending upwardly from said latter means to a location above the rollers and walls extending over portions of the rollers for substantially enclosing the rollers.

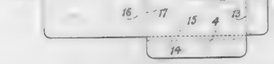
2,529,287
TUMBLER HOLDER
Ernest C. Garwood, Wilmington, Del.
Application September 6, 1946, Serial No. 695,115
3 Claims. (Cl. 211—75)

1. A support for holding a tumbler in an inverted position comprising a spring bracket formed by the adjacent downward depending arms of two loops, one of which loops lies in a substantially vertical plane and the other of which loops lies in a plane displaced at a small angle from the vertical and converging with the plane of the vertical loop toward the upper ends of the loops, said adjacent arms connecting with one another at their lower ends through a bend lying in a substantially vertical plane which is substantially perpendicular to the vertical loop, said adjacent arms diverging laterally toward their upper ends away from each other and from the plane of the bend to form a resilient gripping member into which the cylindrical wall of the tumbler is adapted to be inserted; and a second spring bracket of the same character as the first



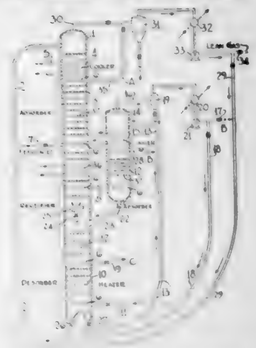
formed between the other arm of the vertical loop and the adjacent arm of a second loop lying in a plane displaced at a small angle from the vertical and converging with the plane of the vertical loop toward the upper ends of the loops, said arms connecting at their lower ends and diverging at their upper ends in the same manner as the arms forming the first spring bracket.

2,529,288
CONTAINER FOR CARBON PAPER AND SIMILAR SHEET MATERIAL
Frederic H. Gibson, Westwood, N. J., assignor of one-half to Fred H. Mahler, Bronx, N. Y.
Application June 13, 1947, Serial No. 754,466
2 Claims. (Cl. 206—62)



1. A container for carbon and similar paper sheets comprising; a body composed of a single sheet of cardboard said sheet having a main panel against which a stack of sheets is maintained, one edge of said panel having an integral flap extension, said flap extension constituting a binding flap and being infolded to enclose one edge of the stack and overlie an edge portion of the face of the stack, staples penetrating said binding flap and the stack and the main panel to thereby secure the stack in place, a bottom flap extending from the bottom edge of the main panel, said bottom flap being adapted to be infolded over the lower edge of the stack, a severance line located betwen said bottom flap and the main panel, a side flap extending from one of the side edges of the main panel, said side flap being adapted to be infolded to enclose said side edge of the stack, a severance line between said side flap and the main panel, a cover flap extending from one side of the main panel, a severance line located between the cover flap and the main panel, the several severance lines permitting the detachment of the bottom flap, side flap and cover to allow the main panel to remain attached to the stack of sheets as a pad-backing therefor.

2,529,289
PREPARATION OF AN INTERMEDIATE FRACTION WITH SOLID ADSORBENTS
Edwin R. Gilliland, Arlington, Mass., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 9, 1947, Serial No. 721,113
15 Claims. (Cl. 183—114.2)



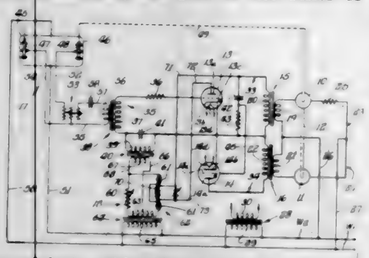
1. In a process for concentrating an intermediate fraction B from a fluid mixture also containing a less readily adsorbed component A and a more readily adsorbed component C by means of a granular solid adsorbent, comprising passing said adsorbent downwardly through a primary column having a primary adsorption zone above the feed and primary rectification and desorption zones below the feed, removing desorbed component C from said primary desorption zone while passing a portion of desorbed component C upwardly through said primary rectification zone to displace component B from the descending adsorbent therein, and removing substantially all of the component A from the upper portion of said primary adsorption zone, the improvement which comprises removing a vapor side stream comprising components B and C and substantially free of component A from said primary rectification zone and passing said vapor side stream upwardly through a secondary adsorption zone countercurrent to a descending adsorbent which adsorbs component C, while leaving a substantial proportion of component B unadsorbed and removing such unadsorbed component B in a state of high purity from the upper portion of said secondary adsorption zone, passing the charged adsorbent containing components B and C from said secondary adsorption zone into said primary rectification zone.

2. The process according to claim 1, in which a portion of the desorbed adsorbent leaving the bottom of said primary desorption zone is supplied to the top of said secondary adsorption zone.

2,529,290
ELECTRICAL CONTROL CIRCUIT
Paul Glass, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application July 18, 1944, Serial No. 545,483
26 Claims. (Cl. 318—29)

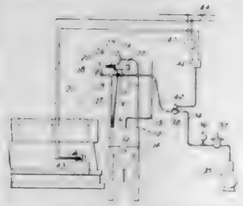
18. In combination with a pair of motors whose armatures are associated with a common shaft and adapted upon energization to tend to rotate the shaft in opposite directions, a circuit for controlling the direction and speed of rotation of the shaft comprising a pair of electronic tubes each of the gaseous discharge type and having at least

an anode, a cathode and a grid, means providing an alternating current anode voltage and electrically associating said tubes one with each of the motors to cause energization of the respective motor upon firing of the tube associated therewith, grid voltage producing means governed solely by one of said tubes acting as a pilot tube, means connecting the grid of the other of said



tubes solely to said voltage producing means, said voltage producing means operating to prevent firing of said other tube when said pilot tube is firing and permitting firing when said pilot tube is not firing, and means operable in response to an alternating current signal of varying magnitude to govern the direction and speed of rotation of the common shaft.

2,529,291
APPARATUS FOR APPLYING MOLD WASH
Thomas K. Graham, Great Falls, Mont., assignor to Anaconda Copper Mining Company, New York, N. Y., a corporation of Montana
Application December 17, 1948, Serial No. 65,763
6 Claims. (Cl. 22—88)



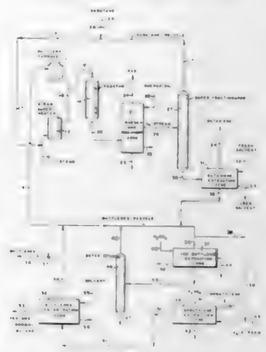
3. In apparatus of the character described, a pneumatic spray nozzle pivotally mounted for travel through an arc, spring means urging the nozzle to one limit of its travel, a pneumatic cylinder having therein a piston connected to said spray nozzle for moving it against the spring means to the other limit of its travel, an air supply header pipe connected both to the air cylinder and to the nozzle, a source of compressed air connected to the header through a normally closed valve, electrical means for opening said valve, a relay connected to said valve-opening means and to a source of electrical power, a switch connected to the relay for actuating it to energize the valve-opening means, and a timer connected to the relay for de-energizing it after elapse of a predetermined time interval.

2,529,292
ELEVATING AND SUPPORTING APPARATUS
Albert B. Greenfield, Philadelphia, Pa.
Application May 21, 1948, Serial No. 28,486
1 Claim. (Cl. 248—354)

An elevating and supporting apparatus comprising a pedestal including a flat, lateral extension, a tubular member secured to said pedestal adjacent said extension, a plunger slidable vertically in said tubular member, a platform carried by the upper end of the plunger and including a lateral overhanging portion, and a reinforcing and aligning web disposed between the underside of said overhanging portion and the upper end of said plunger, there being a slot in the upper end of said tubular member in align-

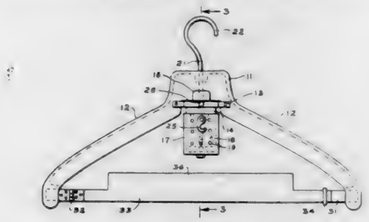
ment with said lateral extension for receiving said web when said plunger is moved downwardly relative to said tubular member, said tubular member having an opening in the lower end thereof for admission of a jack into said tubular member, the length of the plunger being less than the length of the tubular member whereby the jack can be inserted into the lower end of the tubular member when the plunger is in its lowermost position relative to said tubular member.

2,529,293
METHOD FOR DEHYDROGENATING PARAFFINS AND OLEFINS
Ike D. Hall, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application September 11, 1948, Serial No. 48,874
5 Claims. (Cl. 260—680)



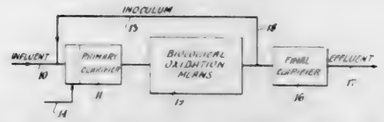
1. A method for dehydrogenating hydrocarbons susceptible to dehydrogenation which comprises forming a first feed consisting substantially of isoparaffin, admixing said first feed with steam, heating the admixture to a temperature in the range from 1000° to 1300° F. to cause dehydrogenation of said isoparaffin, forming a second feed consisting substantially of normal mono-olefins, heating said second feed to a temperature in the range between 900° to 1200° F., admixing the heated admixture and said heated second feed to form a third feed, contacting said third feed with a dehydrogenation catalyst resistant to deactivation by steam to cause dehydrogenation of the normal mono-olefin components of said third feed, removing product including said dehydrogenated components and unreacted feeds from contact with said catalyst, and recovering said product.

2,529,294
GARMENT HANGER
John Hays Hammond, Jr., Gloucester, Mass.
Application April 6, 1948, Serial No. 19,331
2 Claims. (Cl. 223—86)



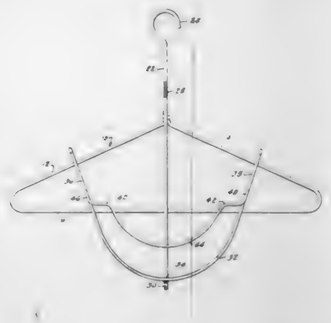
1. A garment hanger comprising a garment support having outwardly extending arms adapted to receive the shoulders of a coat or the like, a receptacle for moth repellent material fixed to said support and having vent openings for the escape of vapor, a retractable closure for said openings, spring means holding said closure in position to close said openings, and a member having a hook for hanging said hanger and connected to retract said closure against the action of said spring means, said garment support being movable with respect to said member in response to the weight of the garment thereon.

2,529,295
PURIFICATION TREATMENT
John W. Hood, Ridgewood, N. J.
Application January 5, 1949, Serial No. 69,379
4 Claims. (Cl. 210—7)



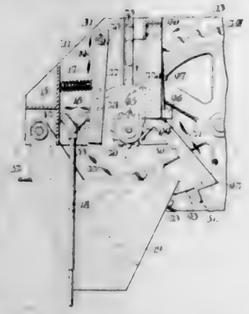
1. A process employing trickling filter means for treating sewage and other aqueous wastes consisting in supplying an influent of said material to a primary clarification by sedimentation in advance of the trickling filter and intermixing with said influent at the beginning of said primary clarifying detention period of said material an aerating supply of oxygen containing gas and substantially simultaneously therewith a supply of treated material recirculated from a later stage of the process following continuous treatment of the material by biological oxidation maintained at a dissolved oxygen content of at least two parts per million, said aerating gas supply being introduced into the mixture at the beginning of said detention and sedimentation period in amount sufficient to maintain in and through the said period said dissolved oxygen content of at least two parts per million, continuing the detention and sedimentation of said material and introduced aerating gas and recirculated material for a predetermined contact and culture period and draining off and separating out all of the settled solids with resultant clarifying action on the mixture in the presence of said introduced aerating gas to continuously culture and maintain the nitrifying bacteria and oxidizing organisms and biologically oxidize said material at said dissolved oxygen content of at least two parts per million and correspondingly reduce the biochemical oxygen demand of the influent while settling out solids from the mixture by sedimentation, subsequently subjecting the clarified material with greatly increased surface exposure to a further supply of aerating oxygen-containing gas in a trickling filter raising the dissolved oxygen content further above said two parts per million with correspondingly increased biological oxidation and producing effluent from said trickling filter having a high stability and a low biochemical oxygen demand, drawing off a portion of said effluent from said trickling filter and passing said portion back for recirculation as said supply of treated material for mixture with said influent and aerating gas in said primary clarification by sedimentation, and continuing said treatment of the material constantly under biological oxidation in the presence of a dissolved oxygen content of at least two parts per million.

2,529,296
WARDROBE HANGER
John F. Kay, Chicago, Ill., assignor, by direct and mesne assignments, of one-third to said Kay, one-third to Vernon A. Brooks, and one-third to Harry H. Hitzeman, all of Chicago, Ill.
Application July 1, 1947, Serial No. 758,293
1 Claim. (Cl. 223—88)



A garment hanger of the type described comprising a vertical wire support member formed into a hook at its upper end, a combined wire coat and pants hanger portion secured thereto and extending rearwardly therefrom, said hanger portion being triangular in shape, and a U-shaped hat hanger portion secured to the forward side of the vertical support, said hat hanger portion being attached adjacent the lower end of said vertical support member with its legs projecting upwardly therefrom, said vertical support having a hook at its lower end for purses or bundles.

2,529,297
MECHANISM FOR LOADING AND UNLOADING
Thomas J. Kearney and Floyd E. McGregor, Detroit, Mich., assignors to Detrex Corporation, Detroit, Mich., a corporation of Michigan
Application July 30, 1948, Serial No. 41,672
5 Claims. (Cl. 198—73)



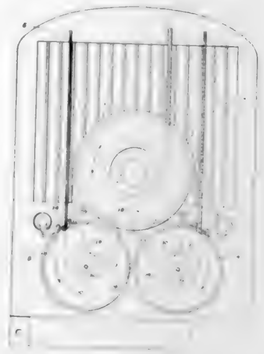
1. In a degreasing machine, a movable conveyor means, a rotatable work carrier mounted on said conveyor means and having an axially mounted pinion, a retractable rack for engaging said pinion, a chute mounted under said work carrier in its loading and unloading position with capacity to swing clear of said work carrier, and means for retracting said rack.

2,529,298
SULFURIC ACID ALKYLATION OF THIOPHENE COMPOUNDS
Kenneth L. Kreuz, Beacon, and Robert T. Sanderson, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 1, 1946, Serial No. 645,006
6 Claims. (Cl. 260—329)

1. A process for producing nuclear alkylated thiophene compounds which comprises reacting a thiophene compound containing at least one reactive hydrogen atom with an alkylating agent containing at least 3 carbon atoms under alkylating conditions at a temperature of —10 to 100° C. in the presence of a catalyst containing mainly sulfuric acid, in which catalyst the weight percent concentration of sulfuric acid in solution is between 50 and 76 per cent.

2,529,299
MULTIPLE DRUM WINCH
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application December 15, 1944, Serial No. 568,290
1 Claim. (Cl. 254—185)

A multiple drum winch unit comprising a support, a pair of substantially parallel shafts mounted in the support, means to drive said shafts simultaneously and in opposite directions a cable drum mounted on each shaft for rotative but not axial movement thereon, means for selectively clutching or declutching each drum to or from its respective shaft, a third shaft mounted in said support in substantial parallelism with said pair of shafts and lying in vertically spaced relation thereto, a drum fixed to the third shaft, a hub mounted for rotative but not axial movement on each shaft of said pair of shafts, means to selectively clutch or declutch each hub to or from its respective shaft, a gear on each hub, a gear on the third shaft and which latter gear is disposed in spaced relation to both of said first named gears, and an idler gear interposed between each of said first named gears and the gear on the third shaft and meshing therewith; said hub clutching and declutching



means including a normally disengaged clutch on each hub and a normally set brake on one hub, and means to selectively simultaneously release the brake on said one hub and engage the clutch on the other hub or engage the clutch on said one hub leaving the clutch on the other hub free, such brake being of the self-energizing type and overrunning with the rotation of its hub when the latter is clutched to its corresponding shaft.

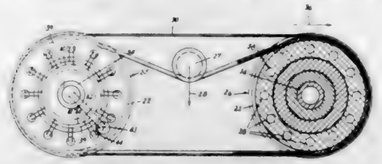
2,529,300
LUBRICATING OIL COMPOSITIONS
Eugene Lieber, Chicago, Ill., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application October 24, 1944, Serial No. 560,193. Divided and this application October 28, 1948, Serial No. 57,133
4 Claims. (Cl. 252—52)

1. A composition comprising a major proportion of a waxy mineral oil and, associated therewith, a minor proportion of a wax-modifier consisting essentialliy of a Friedel-Crafts condensation product about 1 to 5 mols of a compound containing not more than 20 aliphatic carbon atoms and having the general formula $R_nAr—OH$, in which R is an aliphatic group having less than 12 carbon atoms, n equals 1 to 2 and Ar is an aromatic nucleus, with about 1 mol of an aromatic dibasic acid acylating agent having the general formula $Ar'(COX)_2$, in which Ar' represents an aromatic nucleus and X is selected from the class consisting of OH and a halogen, said condensation product being substantially nonvolatile at temperatures up to about 600° F.

2,529,301
APPARATUS FOR MAKING ENDLESS V-BELTS
Henry G. Lykken, Minneapolis, Minn.
Application October 14, 1946, Serial No. 703,139
12 Claims. (Cl. 154—3)

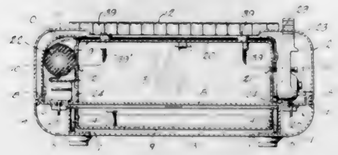
1. An apparatus for making endless belts of heat curable material comprising a pair of pulleys each having therein a belt groove which has parallel side walls throughout a first portion of the groove depth, said parallel side walls be-

ing of a depth at least as great as the thickness of the belt to be formed thereon and a different cross-sectional shape below said spaced side wall portion which is the same cross section as that of the belt desired to be produced, means mounting the pulleys for rotation about substantially parallel axes, and for varying the distance be-



tween said axes as the pulleys are rotated, an endless thin flexible band having a width such that it fits neatly into the parallel side wall portions of the pulleys for running as a backing belt therein with the belt being manufactured pressed into the groove space below the band, and means for rotating the pulleys and for simultaneously heating the belt being manufactured.

2,529,302
CASING STRUCTURE OF PORTABLE AUTOGRAPHIC REGISTERS
Charles J. Manuel, Durham, N. H., assignor to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application July 11, 1946, Serial No. 682,815
8 Claims. (Cl. 282—18)



1. In a register structure, in combination, a casing having a lower casing section with bottom and side walls, and a plurality of longitudinal structure Z-bars spaced apart laterally to provide a receiving compartment therebetween and respectively spaced inwardly from said side walls and having upper and lower longitudinal reinforcing flanges, said lower flanges extending inwardly toward each other adjacent to said receiving compartment and being attached to said bottom wall and said upper flanges extending outwardly away from each other, a platen section having an upper platen, and side walls extending downwardly from the outer margins of said platen and each having an outwardly extending attaching flange secured to one of said Z-bar outwardly extending flanges and substantially parallel thereto.

2,529,303
STABILIZED HYDROCARBON PRODUCTS
John P. McDermott, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 29, 1947, Serial No. 776,869
19 Claims. (Cl. 252—32.7)

1. A mineral oil containing an oxidation inhibiting amount of a double salt prepared by fusing together a metal alkyl xanthate, in which the metal is selected from Groups I and II of the Periodic Table and in which the alkyl group contains at least two carbon atoms, and a compound selected from the group consisting of organo thiophosphorous and thiophosphoric acids and their organic nitrogen base salts having the formulas—

respectively, in each of which formulas R represents an organic group selected from the class consisting of alkyl radicals and alkaryl radicals and containing at least one alkyl radical of at least three carbon atoms, X represents a nonmetallic element of Group VI of the Periodic Table, T represents a member of the group consisting of hydrogen and organic nitrogen base radicals, and n is a number equal to the valence of T, in the ratio of one-half to one molecular proportion of the xanthate compound to one molecular proportion of the phosphorus-containing compound.

13. As a new composition of matter a double salt prepared by fusing together one-half to one molecular proportion thereof a metal alkyl xanthate, in which the metal is selected from Groups I and II of the Periodic Table and in which the alkyl group contains at least two carbon atoms, and one molecular proportion of a compound selected from the group consisting of organo thiophosphorous and thiophosphoric acids and their organic nitrogen base salts having the formulas

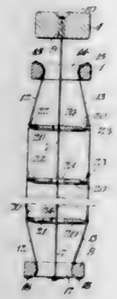
respectively, in each of which formulas R represents an organic group selected from the class consisting of alkyl radicals and alkaryl radicals, each containing at least one alkyl radical of at least three carbon atoms, X represents a nonmetallic element of Group VI of the Periodic Table, T represents a member of the group consisting of hydrogen and organic base radicals, and n is a number equal to the valence of T.

2,529,304
EXTREME PRESSURE LUBRICANTS
Louis A. Mikeska, Westfield, and Elmer B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application February 19, 1948, Serial No. 9,617
13 Claims. (Cl. 252—46.7)

1. An extreme pressure additive composition for mineral oil base lubricants consisting essentially of the condensation product of a halogenated fatty material containing at least two halogen atoms with an alkali metal salt of a dithiophosphoric acid diester, each of the esterifying groups of said ester being selected from the class which consists of alkyl and alkaryl radicals of 2 to 10 carbon atoms in the alkyl chain.

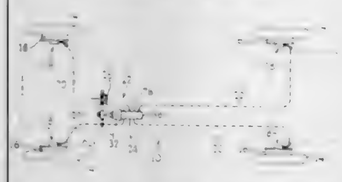
11. A lubricating composition consisting essentially of a mineral oil base lubricant containing 1 to 20% by weight of the product obtained by at least partially reacting a halogenated aliphatic carboxylic acid ester containing at least 2 halogen atoms with a dihydrocarbon substituted metal salt of dithiophosphoric acid, said dihydrocarbon substituent consisting of like hydrocarbon radicals selected from the class which consists of alkyl and alkaryl radicals having 2 to 10 carbon atoms in the alkyl chain.

2,529,305
VENETIAN BLIND
George Arlington Moore, New York, N. Y., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application May 14, 1946, Serial No. 669,505
1 Claim. (Cl. 160—168)



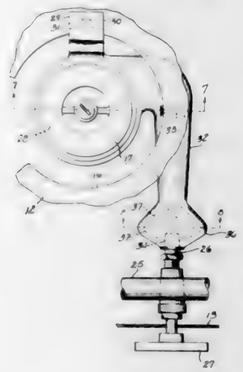
In Venetian blinds, and in combination, a tiltable head-rail having a plurality of spaced transverse elongated apertures, a plurality of louver slats, straps for supporting the louver slats, said straps being in pairs, each pair of straps extending through one of said elongated apertures in the head-rail in substantially spaced relationship when the blind is open, the straps being secured to said rail at opposite sides thereof as to each pair of straps, a bottom rail having spaced apertures complementary to those of the head-rail, means on the rails to force the straps toward each other when the rails are tilted to the closed position, at least two slots in each louver slat and elevating cords attached to the bottom rail and passing through said slots, said slots being relatively long so that the cords do not obstruct vertical alignment of the louver slats when the blind is closed, and the said apertures in the head-rail and bottom rail being elongated in such manner as to direct the straps downwardly in substantially straight-line position through said apertures when the blind is in closed position, as and for the purpose set forth.

2,529,306
HYDRAULIC BRAKE SAFETY DEVICE
Leonard Morris, New York, N. Y.
Application November 6, 1946, Serial No. 708,172
2 Claims. (Cl. 303—84)



1. Apparatus for applying simultaneous braking action to a plurality of different members by means of a single actuator, the apparatus comprising a single hydraulic cylinder and component parts for developing hydraulic pressure, a plurality of individual conduits from said cylinder to said members, and means interposed in said conduits for transmitting to the individual conduits the pressure developed in the cylinder, said means including a piston movable freely in each of said conduits for cutting off direct communication between the cylinder and the conduits without interfering with transmission of the hydraulic force, the piston having a passage therethrough to provide communication between the cylinder and the conduits, means for controlling said passage through the piston to cut off flow into the conduit directly from the cylinder, and means for providing access to said controlling means through the walls of the bore.

2,529,307
FUEL BURNER DEVICE
Bernard E. Mustee, Cleveland, Ohio, assignor to Emil L. Mustee, Cleveland, Ohio
Application January 31, 1946, Serial No. 644,486
2 Claims. (Cl. 126—39)

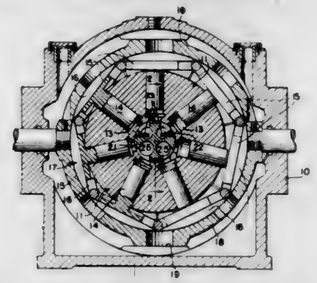


1. An improved fuel burner unit comprising, combustion burner means, and support means to hang said combustion burner means upon a stove top plate, said support means including a fuel conduit, said fuel conduit having a fuel-receiving end adapted to interfit with a gas line spud for supporting one end of the fuel conduit, said fuel conduit extending to the combustion burner means along a path offset from a straight line between said combustion burner means and said fuel-receiving end of the fuel conduit, a support arm extending from said combustion burner means in a direction substantially opposite from the said fuel-receiving end of the fuel conduit, said support arm having a bottom contact surface to rest upon a top surface of said stove top plate, said fuel-receiving end of the fuel conduit and said support arm defining two points of a straight line support axis, said burner means and fuel conduit being integrally joined and having a center of gravity lying to the side of said straight line support axis opposite from said fuel conduit, said burner means thereby tending to move downwardly and said fuel conduit tending to rotate upwardly, a reaction contact carried by said fuel conduit, said reaction contact having a top surface to contact a bottom surface of said stove top plate, said bottom surface of the support arm and said top surface of the contact being spaced with respect to a plane to contact the top and bottom surfaces respectively of said stove top plate to support the burner unit in a substantially horizontal position, whereby the burner unit is both supported and prevented from rotating downwardly from a horizontal position.

2,529,308
UNITARY THIN FLAT HOLDER FOR GARMENT STRAPS
Alice L. B. Powers, Larchmont, N. Y.
Application November 12, 1948, Serial No. 59,643
3 Claims. (Cl. 24—73)

1. A lingerie strap holder comprising, a unitary body member forming a substantially triangular C, the angles of said body member being rounded, one side of said body member being substantially bisected to form an opening therein, and a sewing loop formed on each of the other two sides of said triangular body member to form bearing for stitching.

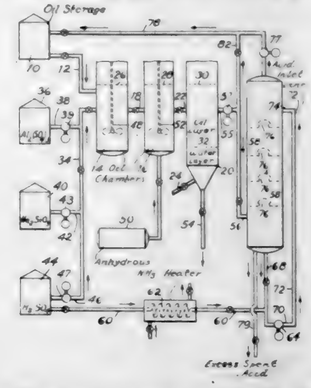
2,529,309
FLUID OPERABLE APPARATUS
Howard M. Purcell, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware
Application March 11, 1946, Serial No. 653,581
5 Claims. (Cl. 103—161)



1. In a radial piston pump; a rotor having a plurality of cylinders and a central axial bore into which cylinders open; a piston in each cylinder and means of reciprocating said pistons as said rotor is rotated; a valve member in said bore having a suction port positioned to communicate with said cylinders throughout substantially the whole of the time that said pistons are moving outwardly therein; said valve member also having a discharge port smaller than said suction port positioned to communicate with said cylinders during a portion of the time that said pistons are moving into said cylinders; and passageways formed in said valve member and opening at one end into said discharge port and at their opposite ends into said bore between said suction and discharge ports and including check valves providing for unidirectional communication between said cylinders and said discharge port during the remainder of the time that said pistons are moving into said cylinders.

2,529,310
ACID-TREATING A CONTAMINATED WATER-IMMISCIBLE BEAD-FORMING OIL
Roger W. Richardson and Charles N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 30, 1948, Serial No. 57,542
6 Claims. (Cl. 252—448)

1. In a process for forming spherical inorganic gels wherein droplets of a hydrosol are set to a gel in a water-immiscible liquid in a contact zone and the water-immiscible liquid becomes contaminated after continuous use, the improvement which comprises withdrawing at least a portion of said water-immiscible liquid from said contact



zone, mixing an inorganic acid with the withdrawn water-immiscible liquid in a mixing zone to remove contaminants therefrom and removing said regenerated water-immiscible liquid from said mixing zone and returning said regenerated water-immiscible liquid to said process.

2,529,311
HAIR CURLER
Dorothy B. Ross, Detroit, Mich.
Application March 19, 1947, Serial No. 735,651
2 Claims. (Cl. 132—33)

1. A hair curler comprising a cylindrical shank which is centrally slotted from one end thereof to loosely receive a curl securing pin, and a pair of spaced transverse legs projecting from the lower end of said shank adjacent its slotted portion to receive a plurality of strands of hair to be wound around said shank to form a curl, said legs being spaced from each other at a distance less than the diameter of said shank whereby said shank and legs are adapted for withdrawing movement from said curl and the pin retaining the same, said legs on manual application being adapted to maintain the curler shank adjacent the scalp and in an upright position during winding of the selected strands of hair.

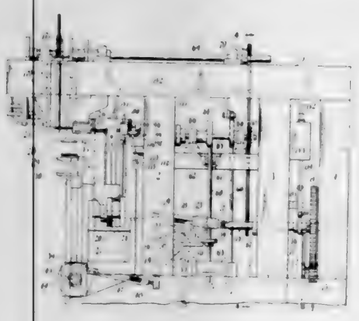
2,529,312
LIQUEFACTION OF METHANE
Walter H. Rupp, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 8, 1947, Serial No. 759,624
8 Claims. (Cl. 62—175.5)

1. An improved process for liquefying natural gas predominantly methane in character which comprises contacting said natural gas under a pressure from about 50 to 500 lbs. per sq. in. with a hydrocarbon liquid absorption oil in an absorption zone under conditions to absorb substantial-

ly all the methane and higher boiling hydrocarbon constituents, removing the absorption oil containing the absorbed constituents from said absorption zone and compressing the same to a higher pressure in an intermediate compression zone, withdrawing the compressed absorption oil from said intermediate compression zone at said higher pressure and introducing the same into a

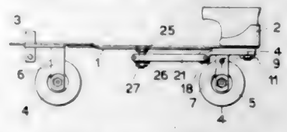
separation zone, separating methane from said absorption oil at said higher pressure in said separation zone, removing the methane overhead from said separation zone and cooling the methane to liquefy the same at said higher pressure and then further cooling said methane to secure a pressure in the range below about 10 lbs. per sq. in. gauge.

2,529,313
MACHINE FOR PUTTING BANDS ON BALLS OF KNITTING WOOL
Lionel J. R. Sanders, Galt, Ontario, Canada
Application November 20, 1948, Serial No. 61,161
34 Claims. (Cl. 1—2)



1. A machine for attaching paper bands to balls of wool comprising a frame, a table for supporting a stack of bands, an anvil mounted on said frame above said table and spaced therefrom, means for centrally supporting a ball of wool immediately beneath said anvil, a pair of pick-up devices supported on said frame to swing between the top of said table and the sides of said anvil, said pick-up devices including gripping fingers provided with suction means for lifting a band clear of said stack, said pick-up devices also including means for causing said fingers to grasp the lifted band by its ends for wrapping it around the ball of wool with its ends overlapped and overlying said anvil, and means for fastening together said overlapped ends of the band while said ends are supported by said anvil.

2,529,314
ROLLER SKATE
Max Wilhelm Schmid, St. Gallen, Switzerland, assignor to Paul Steiger, Herisau, Switzerland
Application September 11, 1948, Serial No. 48,826
In Switzerland May 9, 1946
11 Claims. (Cl. 280—11.23)



1. A roller skate device comprising a supporting platform for engagement with the foot of a person, a member mounted for angular movement relatively to said platform, a pair of roller-supporting forked brackets provided with extensions and depending from said member, a pair of resilient strip elements also associated with said member, a stop adjustable longitudinally of said platform with which said strip elements are adapted to cooperate to determine the angular position of said member relatively to said platform, and a roller having a ball shaped outer surface and rotatably supported by said brackets, said bracket extensions being shaped to project laterally into said roller.

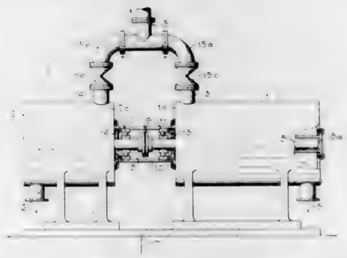
2,529,315
AMINE ACTIVATED EMULSION POLYMERIZATION PROCESS
George E. Serniuk, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 30, 1944, Serial No. 570,747
1 Claim. (Cl. 260—83.1)

The process of preparing a synthetic rubber-like material which comprises emulsifying a mixture of a major proportion of a conjugated butadiene hydrocarbon and a minor proportion of acrylonitrile in water in the presence of an alkali metal soap of a high molecular weight fatty acid as emulsifier, potassium persulfate as a polymerization catalyst, and an aliphatic mercaptan containing at least 6 carbon atoms and adding thereto 0.05 to 0.5% of morpholine.

2,529,316
PROCESS FOR ACYLATING BUTADIENE-STYRENE COPOLYMERS
William H. Smyers, Westfield, and Edward P. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 2, 1947, Serial No. 738,914
3 Claims. (Cl. 260—85.1)

1. A process of preparing a suitable pour point depressing composition for use in lowering the pour point of waxy mineral base lubricating oils which comprises reacting about one part by weight of a solid rubbery copolymer of from 60% to 80% by weight of butadiene and from 20% to 40% by weight of styrene, which copolymer has an iodine number of at least 200, with from one to 5 parts by weight of stearyl chloride in the presence of a solvent inert to the copolymer and from 0.5 to 3 parts by weight of a Friedel-Crafts catalyst at a temperature within the range of from 125° to 250° F. for a period of time of from ½ to 10 hours and until the iodine number of the resulting composition is less than 100.

2,529,317
APPARATUS FOR THE CONVERSION OF ENERGY IN A FLOWING STREAM OF FLUIDS
Walter Squires, Jr., Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 7, 1948, Serial No. 53,342
1 Claim. (Cl. 103—43)

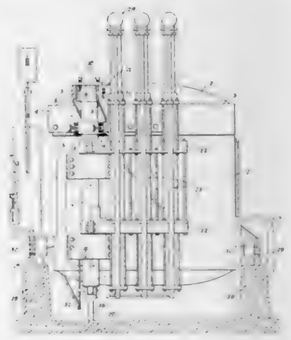


Apparatus for the conversion of energy in a high pressure flowing stream of fluids, comprising a pair of independent units, one unit of said pair consisting of a pump unit and the other unit of said pair consisting of a fluid motor, each unit being enclosed in a casing provided with an inlet and an outlet, said units being disposed in longitudinally spaced, opposed end relation, and having the inlet of one unit juxtaposed with reference to that of the other, shafts of said units extending through the opposed ends of the units and a coupling means joining said shafts between the units, the opposite ends of said coupled shafts terminating at points within the said casings, bearings within said casings and sealed in fluid tight relation thereto, said opposite ends of said shafts terminating within said bearings, an annular sleeve element concentric with the shafts extending between the said casings and said sleeve element being detachably fixed to said casings in pressure tight and fluid tight relation thereto, forming a sealed passageway between the casing for the coupled shafts, a shaft seal and bearing support at each end of said sleeve interiorly thereof, conduit means for a stream of high pressure fluid, including a branch connection communicating with each of the casing inlets, and valve control means in each of said branch connections adapted to divert a major portion of said stream through the said fluid motor and a minor portion through said pump unit.

2,529,318
LOW-TEMPERATURE POLYMERIZATION AT THE FREEZING POINT OF THE POLYMERIZATE MATERIAL
Bruce R. Tegge, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 8, 1946, Serial No. 702,079
9 Claims. (Cl. 260—85.3)

1. In a low temperature polymerization reaction for the polymerization of olefinic material at temperatures within the range between −40° and −164° C., by the application thereto of a Friedel-Crafts active metal halide catalyst, the steps in combination of cooling the olefinic material by the application thereto of external refrigeration at such a temperature in relation to the freezing point of the reactant mixture as to freeze out a layer of material from the reactant adjacent to the refrigerant.

2,529,319
ARC FURNACE TILTING AND ADJUSTING MECHANISM
Edouard Thys, Sacramento, Calif.
Application May 18, 1946, Serial No. 670,674
8 Claims. (Cl. 13—10)

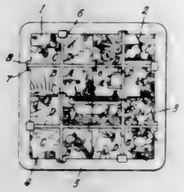


6. The combination with a furnace shell of a roof removably seated on the shell, a vertically disposed piston separate from the roof journaled adjacent the shell for reciprocating and turning movement relative to the latter, separate normally disengaged elements on the roof and on the piston, respectively, means for selectively operating the piston to bring the engagement element thereon into engagement with the engagement means on the roof whereby to lift the roof, an electrode rod holding and operating assembly supported on the piston and turnable therewith, the electrode holding arms of such assembly normally overhanging the roof.

2,529,320
FISHING LINE TENSION DETECTOR
Foster L. Vibber, Shrewsbury, Mass.
Application April 9, 1947, Serial No. 740,435
6 Claims. (Cl. 73—144)

1. In fishing apparatus, the combination of a fishing rod having a series of aligned fishing line guides thereon, a line gathering means, a fishing line attached thereto and extending through such guides, and means mounted on the fishing rod to measure the amount of tension in the line leading to the line gathering means, said tension detecting means comprising a main body portion including a relatively fixed part, a part movable relative thereto, and a resilient member between such fixed and movable parts, and a clamping means for attachment to a fishing rod pivotally connected to the main body portion, and means positioned between the clamping means and the main body portion of the tension detecting means for allowing selective positioning of the main body of the tension detecting means in upright line deflecting operative position or in recumbent inoperative position.

2,529,321
PUZZLE
Donald M. Warren, La Fayette, Ind.
Application January 16, 1946, Serial No. 641,463
2 Claims. (Cl. 273—157)



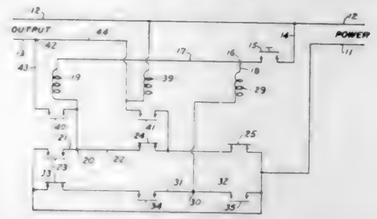
1. A puzzle structure of the class described, comprising four square sheet material units, each having its four corner sections provided with one quarter of an illustration, each corner of each unit being adapted to be associated with one corner of each of the other units to provide a complete illustration centrally of the assembled units, the illustrations on the other corners of each unit surrounding said complete illustration, and means interconnecting said units in each of their four assembled relationships, said means comprising ears projecting from one oppositely disposed pair of edges of each unit, the other oppositely disposed pair of edges of each unit having notches of the same form as said ears, the ears and notches being so arranged that in each picture forming relationship of the units, the adjacent edges of the assembled units will be interconnected by interfitting ears and notches, the ears projecting in the same direction circumferentially about the center of the assembled units into corresponding notches.

2,529,322
PROCESS OF PREPARING SYNTHETIC DRYING OILS
John C. Zimmer, Union, and Jeffrey H. Bartlett, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 20, 1947, Serial No. 769,770
7 Claims. (Cl. 260—410.7)

1. A process of preparing synthetic drying oils which comprises condensing at a temperature above 100° C. a polyolefinic polymer having a molecular weight between 200 and 1000, obtained by the clay treatment of steam cracked gasolines with a compound selected from the group consisting of alpha,beta unsaturated carboxylic acids and alpha,beta unsaturated nitriles and then esterifying the product with an alcohol having from 2 to 20 carbon atoms in a straight chain at a temperature between 100 and 200° C.

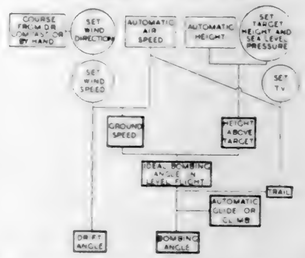
2,529,323
ELECTRICAL CIRCUIT SWITCHING DEVICE
William Ross Aiken, Berkeley, Calif.
Application July 9, 1945, Serial No. 603,883
11 Claims. (Cl. 175—320)

1. A circuit control device comprising a control circuit having activating and deactivating forks; means including a switch effective upon initial closure thereof to close said activating fork only, an output circuit, means responsive to energization of said activating fork for closing said output circuit and maintaining the same closed, means responsive to opening of said switch while said output circuit is energized for preventing reclosure of said activating fork by the reclosure of said switch and for rendering said deactivating fork capable of being closed by the reclosure of



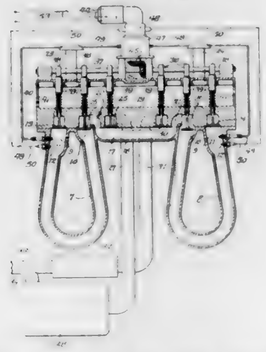
said switch, and means responsive to energization of said deactivating fork for opening said ouput circuit.

2,529,324
BOMBSIGHT
Patrick Maynard Stuart Blackett, Pitcullen, Pinner Hall, and Henry John James Braddick, Farnborough, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application November 1, 1943, Serial No. 508,652
In Great Britain December 31, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires December 31, 1961
4 Claims. (Cl. 33—46.5)



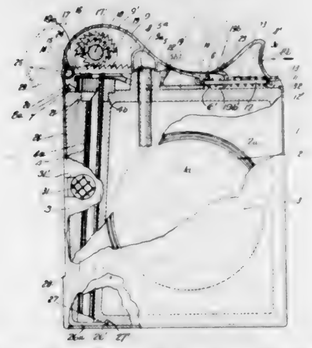
1. An aircraft bombsight comprising the combination of a computer including means for continuously computing the drift angle and means for continuously computing the ideal bombing angle and for applying a trail correction to said bombing angle and a further correction in response to changes in pitch attitude of the aircraft to obtain continuously the value of the sighting angle, said last named means comprising a rotatable pulley, means for angularly positioning said pulley in accordance with changes in aircraft height and ground speed to represent an ideal bombing angle, a flexible element anchored at one end to said pulley, an adjustable anchorage for the other end of said flexible element, a movable member and means for adjusting the position of said member in accordance with the length of said flexible element between said pulley and anchorage, a movable element whose position is to represent the actual sighting angle, a coupling between said movable member and movable element, and means for adjusting said anchorage in accordance with the ballistic properties of the selected projectile, the aircraft air speed and the position of the movable element; an adjustable optical sighting means for defining a sighting line; and transmission means between said computer and said sighting means for continuously transmitting the drift and sighting angle values so obtained to the sighting means so as to move the sighting line accordingly, whereby the point sighted at any moment is the point of impact of a bomb released at that moment.

2,529,325
CYCLIC COMBUSTION GAS GENERATOR
Hans Bohuslav, Buffalo, N. Y.
Application May 2, 1945, Serial No. 591,583
3 Claims. (Cl. 60—44)



1. An apparatus for delivering compressed gas to a receiver, including a stationary combustion chamber of elongated form, an air inlet valve at one end of said combustion chamber and a discharge valve at the other end thereof, means for supplying fuel and igniting the same in said combustion chamber, valve means for discharging a portion of the compressed gas from said combustion chamber to a receiver, an exhaust valve for discharging the balance of the compressed gas in said combustion chamber, and means for opening said inlet valve immediately after said exhaust valve to provide flow of incoming air into said combustion chamber due to the ballistic force of the exhaust which produces a reduction in pressure in said combustion chamber below that of the incoming air.

2,529,326
AUTOMATIC LIGHTER WITH ELONGATED FLINT
Jean Léon Albert Borthayre, Bayonne, France
Application June 28, 1946, Serial No. 679,959
In France July 11, 1945
8 Claims. (Cl. 67—7.1)

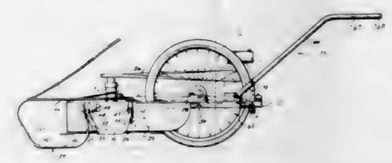


1. A lighter comprising a reservoir body formed with a flint bore extending through the entire height of said body and adapted to slidably and non-rotatably guide therein a flint having screw threads on its periphery, an abrasive wheel rotatably mounted on said body above said flint bore, a wick passage extending from the reservoir through the top of said body, a nut rotatably mounted at the upper opening of said flint bore and adapted to engage by its internal threads said screw-threads of the flint and to advance said flint into engagement with said abrasive wheel when said nut is rotated, an actuating device for imparting rotation to said abrasive wheel, and means operated by said actuating device for imparting rotation to said nut.

2,529,327
TIGHTENER FOR CLOTHESLINES
George Carlson, Brooklyn, N. Y.
Application October 24, 1947, Serial No. 781,933
1 Claim. (Cl. 24—126)

A tightener for clotheslines comprising a sleeve having a tapered internal surface at one end and provided with opposed longitudinal slots adjacent the opposite untapered end thereof, a wedge member freely reciprocable within said sleeve, the forward portion of the bottom wall of said wedge member being longitudinally tapered complementarily to said tapered internal surface, the top wall and rear portion of the bottom wall of said wedge member being substantially parallel to the untapered portion of said sleeve, a transversely disposed guide rod extending through said wedge member, the extremities of said guide rod projecting through said opposed slots so that said wedge member may be moved into and out of engagement with a clothesline to be tightened, and a plurality of arcuate projections on the bottom wall of said wedge member, said projections being located substantially on the parallel portion of said wedge member and adapted to engage said clothesline immediately adjacent said tapered internal surface, forward movement of the wedge member securing the clothesline between the complementarily tapered surfaces of said wedge member and said sleeve.

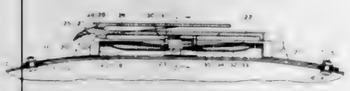
2,529,328
MOWING MACHINE
Raymond Carter, Wyoming, Ill.; Hazel Carter and Raymond Hugh Carter administrators of said Raymond Carter, deceased
Application March 31, 1948, Serial No. 18,272
8 Claims. (Cl. 56—25.4)



1. In a mowing machine of the type having a wheeled frame, a cutting blade supported by the

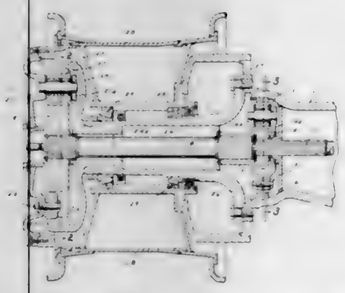
frame for rotation about a vertical axis and means to impart rotary movement to the blade, the improvement comprising a substantially U-shaped shield secured to the frame and extending forwardly of the cutting blade support, and a guard attached to one of the sides of said U-shaped frame spaced from and in parallel relationship to said side to protect the cutting blade the outer end of the guard being located rearwardly of the front of the U-shaped shield.

2,529,329
SAFETY TANK CLOSURE
Joseph H. De Frees, Warren, Pa.
Application July 31, 1948, Serial No. 41,790
3 Claims. (Cl. 220—44)



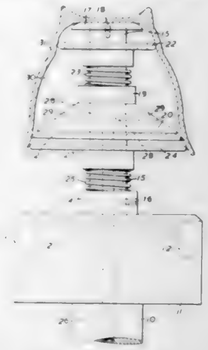
3. A combined vent valve and filling and manhole cover for mobile gasoline tanks, comprising a sheet metal base adapted for attachment of its peripheral portion to the metal around an opening in the tank wall, said plate being provided with an opening of relatively large diameter, an arm pivoted on said plate at one side of the opening therein and extending across said opening and provided at the center thereof with a recessed internally threaded boss, a cover for the tank wall opening seated upon said boss, a generally cylindrical externally threaded vent valve unit extending through a central opening in said cover and threaded into the recess of said boss and having a shouldered head which secures the cover to the boss, said vent valve unit including a tubular body portion, a yielding valve member seating outwardly and mounted within the bore thereof, and having a through passage, and two yieldable check valves, one seating outwardly and the other inwardly, carried by said valve member and mounted in the through channel thereof.

2,529,330
DOUBLE PLANETARY DRIVE AXLE
Walter F. Double, Wickliffe, Ohio, assignor to The Euclid Road Machinery Co., Cleveland, Ohio, a corporation of Ohio
Application February 20, 1948, Serial No. 9,722
1 Claim. (Cl. 74—801)



In a vehicle drive of the character described, the combination of a non-rotatable axle housing provided with fixed inner primary and outer secondary internal ring gears spaced longitudinally thereon, a power driven axle rotatable in said housing and provided with a primary sun gear in the zone of the inner ring gear, a primary set of planet gears, a stub shaft separate from and axially alined with the axle and rotatable within the housing and having a non-rotatable connection at its inner end with said primary set of planet gears meshing with both said primary sun gear and primary ring gear and having a non-rotatable connection at its outer end with a secondary sun gear in the zone of the secondary ring gear, a wheel hub journalled on the axle housing in the space between the two ring gears thereon and provided at its outer end with a support rotatable with said hub, and a secondary set of planet gears mounted upon said support and meshing with both said secondary sun gear and secondary ring gear, thus causing driving torque originating in the axle and transmitted to the wheel hub to traverse two planetary gear systems in succession, one between the outer end of the axle and the inner end of the stub shaft and the other between the outer end of the stub shaft and the wheel hub.

2,529,331
CHUCK
Arthur Godfrey Ellis and Maurice Whiston Abberley, Stoke-on-Trent, England
Application March 25, 1948, Serial No. 16,914
In Great Britain November 14, 1947
12 Claims. (Cl. 279—3)

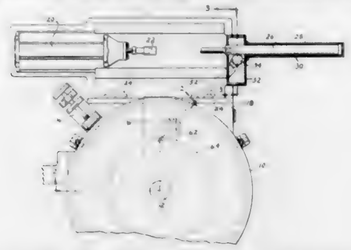


1. A chuck comprising an end stop adapted to fit up to the closed end of the pieces to be acted upon, a flexible sealing member adapted to make contact round the inside walls of the piece, means for exhausting the cavity between the sealing member and the end stop bounded by the walls of the piece being acted upon, and at least one member engaging with the inside walls of the piece at a suitable point or points for the purpose of correctly locating and centering the piece upon the chuck.

2,529,332
INDEXING MECHANISM FOR MACHINE TOOLS
Ernest L. Fickett, Fitchburg, and Charles F. Wissenbach, Bolton, Mass., assignors to Fitchburg Engineering Corporation, a corporation of Massachusetts
Application April 10, 1944, Serial No. 530,380
7 Claims. (Cl. 29—38)

1. A machine tool comprising a circular work carriage adapted to hold a plurality of work

pieces, means to rotate the work carriage in a predetermined direction, a tool carriage, means to advance and retract the latter tangent to a circle whose center is coincident with that of the work carriage, means connected to said tool carriage and to said work carriage traveling means

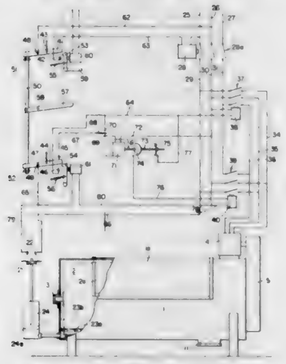


to travel the work carriage in said predetermined direction only, under influence of said tool carriage advancing and retracting means, and means inhibiting the operation of said work carriage traveling means on the advance stroke of the tool carriage.

2,529,333
BORON CARBIDE ARTICLE AND METHOD OF MAKING
Gordon R. Finlay, Chippawa, Ontario, Canada, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application November 18, 1948, Serial No. 60,830
3 Claims. (Cl. 106—43)

1. A molded article which has been heated to at least 2000° C. and pressed at at least five hundred pounds to the square inch consisting of at least 98% a homogeneous phase of boron carbide having a B/C ratio of from 3.80 to 5.30, from 73% to 93% by volume, the remainder, except for up to 2% impurities, silicon, of said 2% impurities not more than a trace having any nitrogen.

2,529,334
AUTOMATIC TEXTILE WASHING APPARATUS
George G. Gaubatz, Davenport, Iowa, assignor to American Machine & Metals, Inc., East Moline, Ill., a corporation of Delaware
Application December 11, 1943, Serial No. 513,915
4 Claims. (Cl. 68—12)



3. In a washing apparatus, in combination, a washer shell, a clothes-containing cylinder mounted for rotation within the shell about a horizontal axis, electrical means adapted to rotate said cylinder in either direction, a timing motor for periodically reversing the direction of rotation, a circuit by-passing said timer to cause the cylinder to be normally rotated in one direction, means for filling the shell to a low level suitable for washing and to a higher level suitable for rinsing, a switch responsive to the rise of the level of the bath from the low to the high level which opens said by-pass circuit and causes the timer motor to function to thereafter periodically reverse the direction of rotation of said cylinder.

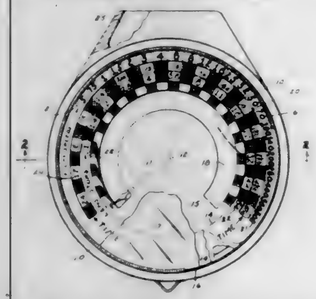
2,529,335
PREPARATION OF A HEAT INSULATING MATERIAL FROM PEAT
John Gundersen Helland and Ragnar Eyolf Leonhard Moen, Skien, Norway
No Drawing. Application December 29, 1947, Serial No. 794,418. In Norway January 21, 1947
2 Claims. (Cl. 92—6)

1. Process for the production of a uniform, water-repellent, heat-insulating material from bog-moss peat which comprises heating the raw peat in a moist atmosphere up to a temperature of about 80° C., rinsing the peat with water at about 80° C., drying the peat at a temperature not substantially higher than 30° C. to a moisture content of about 35–40 percent, then further drying the peat by gradually increasing the temperature thereof to a temperature within the range from about 60° C. to about 90° C., and finally heating the dried peat to a temperature within the range from about 120° C. to about 140° C.

2,529,336
TREE PLANTER
Lee Roy Henderson, Kosmos, Wash., assignor of one-half to Alfred C. Seago, Kosmos, Wash.
Application July 7, 1949, Serial No. 103,469
4 Claims. (Cl. 111—4)

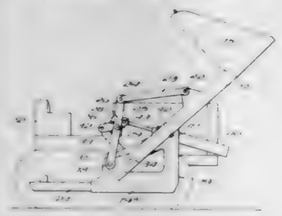
1. An improved tree planter comprising a spade member, a frame including a vertical bar carried by said spade member, a sleeve slidably and rotatably mounted on said vertical bar, a horizontal bar carried by said sleeve, and a pocket member pivoted about said horizontal bar and swingable thereabout toward and from said spade member.

2,529,337
INDICATING DIAL FOR PHOTOELECTRIC LIGHT METERS
Robert D. Hickok, Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated, Cleveland, Ohio, a corporation of Ohio
Application February 15, 1947, Serial No. 728,914
5 Claims. (Cl. 235—64.3)



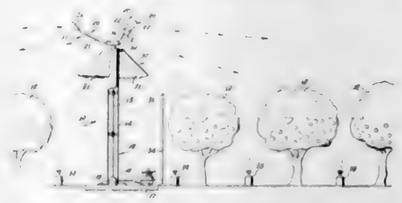
1. An indicating dial for a light meter of the character described wherein a pointer swings on a pivotal axis responsive to variations in light intensity, said dial including a first scale with which said pointer is registrable, and sub-divided into increments representing time periods, and proportional to respective quantitative increments of light intensity, a second scale subdivided into increments representing respective lens stop openings, and a third scale movable as a unit with said second scale, and subdivided into increments representing photographic film sensitivity means for producing relative movement between said first and second scales, all three said scales being segmental in character and being juxtaposed in three arcs of successively decreasing radii, all said arcs being concentric with respect to said pivotal axis, each said scale extending around a major portion of the circumferential extent of the dial.

2,529,338
OVERHEAD SHOVEL LOADER
Curtis R. Hoover, Edmondton, Alberta, Canada
Application March 11, 1946, Serial No. 653,589
10 Claims. (Cl. 214—131)



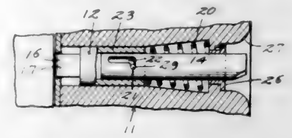
1. In an actuating mechanism operable by force received from a single source to pivot a scoop boom of an overhead dozer loader, a frame, means pivotally mounting an end of the boom on said frame to accommodate swinging of the boom from a horizontal position upwardly to and beyond a vertical position, a lever structure, means supporting said lever structure on said frame for translation transversely of the pivotal axis of said boom, means for applying force from said source to said lever structure to incur such translation thereof, means connecting said lever structure with the boom to pivot said boom incident to such translation, and means connected between said frame and the lever structure for constraining said lever structure for pivotal movement pursuant to such translation to modify the speed at which said boom is pivoted.

2,529,339
BLOWER FOR FROST PREVENTION
Warren L. Irvine and Bruner R. Daves, Claremont, Calif.
Application March 8, 1949, Serial No. 80,194
6 Claims. (Cl. 47—2)



5. An orchard protective blower mounted at an elevation above the orchard trees and comprising a rotor having radial blades rotatable about a vertical axis, each blade being pitched at an angle to have leading and trailing edges, and each blade having an inner upwardly and outwardly extending length and a terminal length extending upwardly and outwardly relative to said inner length, air being displaced by the blade, and from radially increasing locations along the blade, increasing distances outwardly over the orchard trees by virtue of the upward angularities of the blades, and means for adjusting the relative pitches of said inner and terminal lengths of the blades.

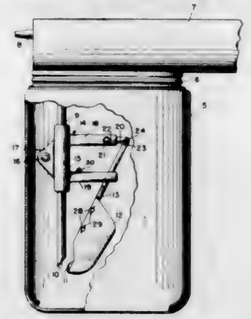
2,529,340
SAFETY LATCH FOR AUTOMOBILE DOORS
Harry M. Jarrett, East Hartford, Conn.
Application August 3, 1948, Serial No. 42,159
5 Claims. (Cl. 292—182)



1. A safety lock for automobile doors having a post between the front and rear doors comprising a pair of telescopically related bolt members slidable in said post and extensible from opposite sides thereof, spring means biasing said bolts to extended position, means limiting the sliding movement of one of said bolts relative to the other, and interengaging means including said means limiting the sliding movement of said one bolt carried by said pair of bolts adapted to selectively retain said pair of bolts in retracted inoperative position relative to each other.

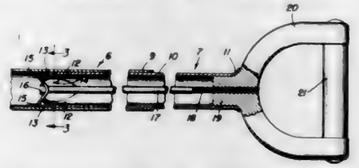
2,529,341
SPRAYER REGULATOR
John Kailenta, Staten Island, N. Y.
Application December 12, 1946, Serial No. 715,868
3 Claims. (Cl. 299—88)

1. A sprayer comprising a receptacle portion, a dispensing mechanism including a nozzle and a feed tube, the latter extending into the receptacle and having an inlet end near the bottom of the receptacle, a bracket adjustably mounted on the tube within the receptacle, a rocker-lever



supported by the bracket, a weight adjustably mounted on the lever, a valve for the inlet end of the tube carried by the weight, and a biasing spring mounted on the bracket and impinging on the lever.

2,529,342
EXTENSION HANDLE FOR SHOVELS AND THE LIKE
Clarence L. Kopplin and Paul C. Kopplin, Waterloo, Iowa
Application April 19, 1948, Serial No. 21,904
2 Claims. (Cl. 294—57)



1. An implement of the class shown and described comprising a head provided with an integral tubular shank section, an extension unit embodying a tubular shank section in the form of an open ended sleeve and fitted telescopically and slidably into said first-named shank section, the inner end of said sleeve being bifurcated, the furcations defining resilient prongs and the terminal ends of said prongs being deflected laterally and toed inwardly toward each other, an elongated bolt extending centrally and axially through and beyond opposite ends of said sleeve, said bolt having a headed end adjacent said prongs, a washer mounted on the headed end of the bolt, said washer having a centrally bent portion which is located between the prongs and having end portions defining cams on diametrically opposite sides of the bent portion, the terminals of said prongs having wiping and camming contact with said prongs, and hand grip means having a screw-threaded nut portion fitted telescopically into the outer end of said sleeve, the screw-threaded end of said bolt being screwed into said nut portion.

2,529,343
THREADED SELF-LOCKING DEVICE
Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application March 17, 1945, Serial No. 583,237
1 Claim. (Cl. 151—38)

A self-locking assembly for threaded engagement with a screw; said assembly comprising a nut with a threaded bore and a flat inner end surface, and a lockwasher consisting of a one-turn helix of resilient metal having a point substantially midway of the ends thereof welded to said flat inner end surface of the nut, the ends of the

lockwasher being overlapped and both ends being spaced from the adjacent flat end surface of the nut, the area of a face of said lockwasher being not less than the area of said end surface of the nut and the internal diameter of the lockwasher being greater than the root diameter of the threads of the nut.

2,529,344
COMPOSITION FOR IMPARTING RUST-INHIBITING FINISH TO IRON ARTICLES
Adolph W. Machlet, Elizabeth, N. J.
No Drawing. Application January 11, 1949, Serial No. 70,379
1 Claim. (Cl. 106—1)

A pulverulent mixture for imparting a rust-inhibiting finsh to articles of manufacture composed or iron or alloys thereof which consists of about four parts of charcoal and about ten parts of the pulverulent by-product, predried, resulting from the extraction of aluminum from bauxite, said by-product being composed of about 20% alumina, about 18% ferric oxide, about 10% titanium oxide, about 12% silica and about 15% lime and about 6% soda.

2,529,345
METHOD OF DURABLY FINISHING IRON ARTICLES AND COMPOSITION THEREFOR
Adolph W. Machlet, Elizabeth, N. J.
No Drawing. Application January 11, 1949, Serial No. 70,380
3 Claims. (Cl. 117—22)

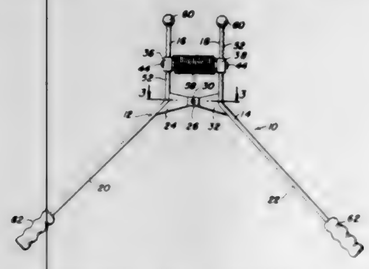
3. A method of imparting a durable finish to iron articles which consists in mixing them with a powdery mixture containing about ten parts of red-mud, and about four parts of charcoal, and about four parts of an agent containing iron and copper sulphates, then subjecting the whole to a rising temperature until approximately 1500° F. is attained, and finally allowing the whole to cool in the absence of air.

2,529,346
METHOD FOR THE PRODUCTION OF CAST IRON AND ALLOY ADDITION AGENT USED IN METHOD
Keith Dwight Millis, Rahway, Albert Paul Gagnebin, Red Bank, and Norman Boden Pilling, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application April 19, 1949, Serial No. 88,494. In Great Britain March 22, 1947
8 Claims. (Cl. 75—130)

1. The method for producing improved iron-base castings which comprises establishing an iron-base melt containing about 0.03% up to about 0.3% sulfur, incorporating in said melt about 0.25% to about 2% of an agent containing at least about 1.25% but not more than about 4% carbon, more than about 10% to about 20%

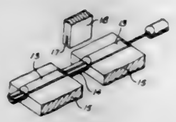
magnesium, with the balance essentially nickel, to introduce in said melt at least one part of magnesium for each part of sulfur contained in said melt and to provide a small retained magnesium content in said melt, and shortly thereafter casting said melt to produce iron-base castings having improved properties and containing a small amount of magnesium, said small amount being at least about 0.03% of the total composition.

2,529,347
EXERCISING DEVICE
Stanley R. Mohler, La Marque, and Silas E. Ross, Jr., Amarillo, Tex.
Application August 2, 1948, Serial No. 42,008
5 Claims. (Cl. 272—83)



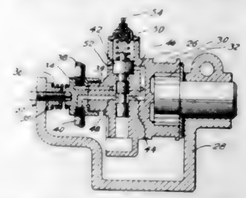
2. An exercising device comprising a pair of substantially V-shaped levers having inner and outer terminals, the inner terminals of said levers being elongated, hand grips carried by the inner terminals of said levers, means pivotally securing said levers together intermediate the terminals thereof, supports adjustable on the levers adjacent the outer terminals of said levers, spring urged locking pins carried by said supports, notches provided in the outer terminals of said levers for receiving said locking pins, and a coil spring between said supports normally urging the inner terminals of said lever spread relative to each other.

2,529,348
METHOD OF MAKING SACRIFICE RODS FOR WATER TANKS
Bernard E. Mustee, Cleveland, Ohio, assignor to E. L. Mustee and Sons, Inc., a corporation of Ohio
Application October 27, 1948, Serial No. 56,828
2 Claims. (Cl. 29—148)



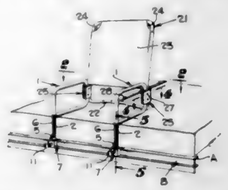
1. The method of making an electrolysis sacrifice device consisting of the steps of, providing a substantially uniform continuous length of flexible wire rod, casting a series of sacrifice portions extending completely around the flexible wire rod and a series of link portions extending substantially on only one side of the flexible wire rod to facilitate the shearing removal of the said links, and thereafter shearing the link portions from the flexible wire rod.

2,529,349
CENTRIFUGAL UNLOADER FOR COMPRESSORS
Ellis Nathan, Easton, Pa., assignor to Pennsylvania Pump & Compressor Company, Easton, Pa., a corporation of Pennsylvania
Application June 29, 1946, Serial No. 680,501
3 Claims. (Cl. 230—29)



1. A centrifugal starting unloader for a motor driven compressor comprising a rotatable valve body driven by the compressor motor, a receiver for said compressor, unloading devices therefor, conduits from the compressor receiver and to said compressor unloader devices communicating with said valve body, and a valve within said body controlling said conduits, said valve being spring pressed in a direction to normally admit discharge pressure to said compressor unloading devices, and said valve being movable, when said compressor is operating at substantially normal speed, to a position to exhaust pressure from said unloading devices to atmosphere and permit normal operation of the compressor.

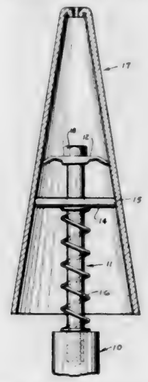
2,529,350
FOLDING BED REST
Robert M. Posz, Glendale, Calif.
Application June 3, 1949, Serial No. 96,914
11 Claims. (Cl. 5—327)



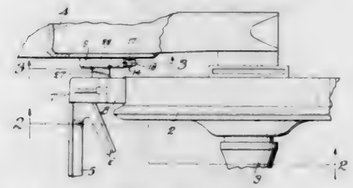
1. A device for installation on a bed to support a patient in a seated position, involving: a tubular back frame of rectangular form; a pair of tubular side frames also of rectangular form pivotally connected to said back frame; vertical leg members projecting from said side frames; and clamp means for securing said vertical legs to the side rail of a bed frame to dispose said side frames vertically upon a bed with said back frame upright between said side frames.

2,529,351
CONE HOLDER
Robert B. Putnam, Cobleskill, N. Y., assignor to Fenimore Fabrics, Incorporated, Cobleskill, N. Y.
Application December 10, 1947, Serial No. 790,850
1 Claim. (Cl. 242—130)

A cone holder for knitting or textile machines comprising a bolt adapted for mounting on a creel frame, an upper washer fixed on said bolt and formed with a plurality of radially disposed downwardly inclined cone gripping fingers having substantial width, the outer edges of said fingers being obliquely inclined with respect to the axis of the washer whereby to constitute fragmentary threads for biting threaded engagement with the inside of the cone at a point spaced from the small end of the latter, a second washer slidable on said bolt below said first washer, the rim of said second washer being round in transverse section, and a spring about said bolt constantly urging said second washer upwardly, said second washer being larger in diameter than said first washer and frictionally engageable with the inside of the cone at a point spaced downwardly from said first washer.



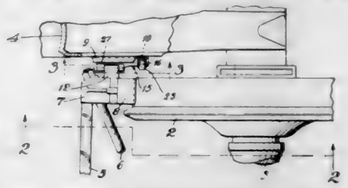
2,529,352
BRAKE BEAM SUSPENSION
William H. Sale, Sandston, Va., assignor of one-half to Edmund P. Kelly, Chicago, Ill.
Application April 19, 1946, Serial No. 663,493
15 Claims. (Cl. 188—212)



1. In a brake beam supporting connection between a truck side frame and a brake head, flanges on the truck side frame, defining a longitudinally extending and generally horizontal channel having an enlarged inner portion of greater height than the opening of the channel, and a brake head supporting member, in supporting relation with said brake head, including a portion extending into and slidable along said channel, said portion having an enlarged inner end slidably interlocking with the enlarged inner portion of said channel.

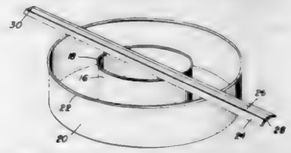
2,529,353
BRAKE BEAM SUPPORT
William H. Sale, Richmond, Va.
Application June 10, 1948, Serial No. 32,151
18 Claims. (Cl. 188—212)

1. In a brake beam supporting connection between a truck side frame and a brake head, flanges on the truck side frame defining a longitudinally extending and generally horizontal channel having an inner portion of greater height than the opening of the channel, and a brake head supporting member in supporting relation with said brake head, including a portion having an end enlargement extending into and slidable



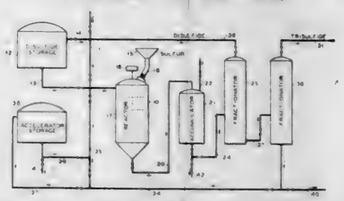
along said channel, at least one of said flanges having a removable portion of a length sufficient, when said portion is removed, to permit the passage of said brake head supporting member through said flange.

2,529,354
CAKE MOLD
Alice E. Schroeder, Los Angeles, Calif.
Application February 17, 1948, Serial No. 8,909
2 Claims. (Cl. 220—22)



1. In combination with a baking pan having an annular wall and a circular bottom wall, an inner annular partition supported upon the bottom wall of said baking pan, an annular intermediate partition disposed on the bottom wall of said baking pan, said annular wall and said partitions being concentric, and an elongated member disposed diametrically of and secured to said partitions and having end portions supported upon the annular wall of said baking pan, said member constituting the sole means for joining said partitions.

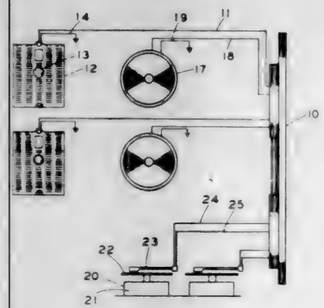
2,529,355
PRODUCTION OF DIALKYL POLYSULFIDES
Walter A. Schulze and Willie W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application August 23, 1948, Serial No. 45,604
11 Claims. (Cl. 260—608)



8. An improved process for converting a dialkyl disulfide in which the alkyl groups contain from one to six carbon atoms into the corresponding dialkyl trisulfide which comprises reacting said disulfide with elemental sulfur at a temperature between 250° and 350° F. and pressure sufficient to maintain liquid phase in a reaction zone, separating a resulting effluent into

unreacted disulfide, said trisulfide and a complex heavy residue, recycling said heavy residue and unreacted disulfide to the reaction zone, introducing additional disulfide and sulfur, repeating the reaction, separation and recycle for a plurality of conversion cycles, and collecting the trisulfide from each conversion as the product of the process.

2,529,356
COIN-CONTROLLED MUSIC EXCHANGE
William Wolfe Shayne, Miami, Fla.
Application November 27, 1945, Serial No. 631,079
3 Claims. (Cl. 179—6.3)

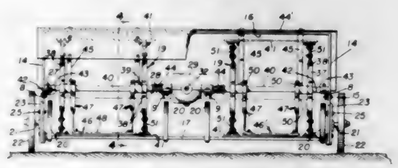


1. A coin controlled record playing system comprising a central station, a plurality of record playing means at said central station, remotely disposed play translating devices electrically connected to said playing means, a selector means for each of said translating devices, said selector means having a rotary switch means formed with radially disposed sequentially spaced play positions with electrical connections extending therefrom to each of said playing means and an open circuit no play position placed in radial sequence relative thereto, said rotary switch having means whereby it is rotatable in one direction, a rotating means, connecting means connected to said switch whereby said switch is rotated in said one direction, said rotating means having a ratchet member, a solenoid, a reciprocative pawl operative by said solenoid and engageable with said member whereby rotation is imparted to the switch on reciprocation of the pawl, said solenoid means reciprocating said pawl on pulsed current energization thereof, an impulse generating means, means whereby said impulse generating means is associated with said translating means and connected to said solenoid for imparting electrical impulses thereto representative of a record selected for playing, means whereby said solenoid is responsive to said electrical impulses to reciprocate said pawl and rotate the switch through said positions in sequence to the position of selection, an electrical means in circuit with the playing means having a normally open contact connected to said selector solenoid, switch means in said circuit connected with the playing means and operative to alternately close and open said circuit for intermittent energization of the selector solenoid to rotate said rotary switch to said open position ready for repeat selective play operation.

2,529,357
OARLOCK
Abram L. Shutter, West Haven, Conn.
Application May 12, 1949, Serial No. 92,817
1 Claim. (Cl. 9—26)

An oarlock comprising a yoke-portion and a stem projecting substantially perpendicular from the underside of said yoke-portion, said yoke-portion being characterized by a pair of horns, said horns being formed as complementary partially-complete substantially-spiral convolutions.

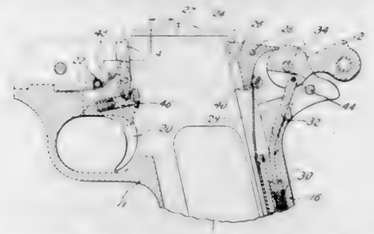
2,529,358
COTTON STALK CUTTER WITH ROTARY CUTTING REELS
Clarence R. Slater, Lewisville, Tex., assignor of forty-nine per cent to John W. Slater, Lewisville, Tex.
Application January 14, 1947, Serial No. 721,928
4 Claims. (Cl. 56—249)



1. A cotton stalk cutter comprising a frame having wheels, a shaft journalled on said frame, means for driving said shaft, a cutting reel rotatably mounted on said shaft, a stationary cutter blade, means fastening said stationary cutter blade to said frame beneath said cutting reel, said stationary blade coacting with the blades of said cutting reel, a blade clearing element, and means rotatably mounting said blade clearing element about said shaft inside said reel.

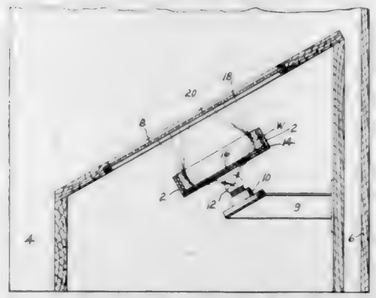
2,529,359
SAFETY DEVICE FOR AUTOMATIC PISTOLS
Harry A. Stevens, Hartford, Conn.
Application September 28, 1946, Serial No. 700,112
7 Claims. (Cl. 89—148)

1. A magazine pistol comprising a frame, a barrel, a recoil slide therefor normally spring pressed to its forward position, a hammer, a trigger, operative connections between said trigger and hammer including a sear mounted within the frame below the slide and engaging a notch formed within the hammer, and a locking member pivotally mounted within the frame below the slide and movable into a position engaging a depending projection on said sear to prevent movement of said sear to release the hammer, and a spring engaging said projection normally forcing said sear towards its hammer retaining position, whereby said recoil slide and barrel may



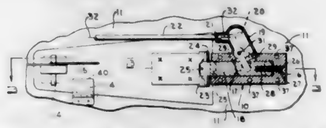
be manually retracted while said locking member is in its sear engaging position.

2,529,360
INSPECTION OF RACEWAY SURFACES AND THE LIKE
Theodore R. Welch, Denville, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 9, 1946, Serial No. 639,959
6 Claims. (Cl. 88—14)



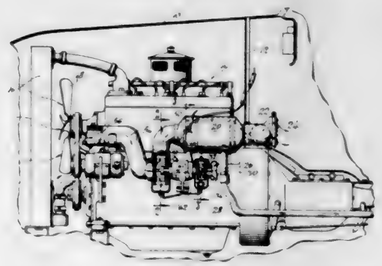
1. In apparatus for inspecting the interior surface of rings, a pair of guide rails to support the rings for sliding movement, a source of light equidistant from the rails in a position to send direct rays against the interior surface of each ring as the latter is slid along the rails, a housing enclosing the light and having a semi-transparent screen on the opposite side of the ring from the source of light to receive light reflected from the interior surface and form an image of such surface, and the housing having an opening for the guide rails and for the insertion of the rings in succession.

2,529,361
FUEL TANK LOCK
Joseph T. Abbas, Detroit, Mich.
Application November 7, 1946, Serial No. 708,349
1 Claim. (Cl. 292—166)



A latch adapted to cooperate with a keeper, comprising a bolt housing, a bolt opening and a cable opening in said housing, a slidable bolt essentially enclosed by said housing and being slidable therein for release from the keeper or to project through said bolt opening for locking engagement with the keeper, resilient means to urge said bolt into locking engagement with the keeper, means to release said bolt from the keeper against the tension of said resilient means and comprising a pivotal lever engaged with said bolt for slidable movement thereof and being enclosed within said housing, handle means, and means to release said bolt from the keeper by operation of said handle means and comprising a flexible pull-cable entering said housing through said cable opening and being operatively coupled between said pivot lever and said handle means, said pull-cable and the axis of said cable opening being substantially in a direct line between said handle means and said pivot lever.

2,529,362
BLOWER
George W. Allen, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application January 25, 1946, Serial No. 643,313
3 Claims. (Cl. 230—117)

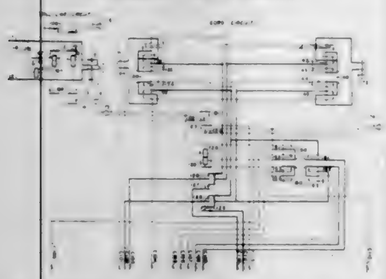


1. An air supply system adapted for connection on its inlet side to a duct leading to a source of air under positive but insufficient and variable pressure, said supply system being adapted to boost the supply pressure by substantially the required amount to maintain a substantially constant outlet pressure regardless of the inlet pressure, comprising a scroll case connected at its center to said inlet duct, a backwardly pitched centrifugal impeller positioned within said scroll case, and a shunt-wound electric motor connected for driving said impeller.

2,529,363
NORMALLY EXPANSIBLE ANATOMICAL DIAPHRAGM
Robert J. Ballard, Lebanon, and James A. Jackson, Indianapolis, Ind.
Application August 12, 1948, Serial No. 43,918
7 Claims. (Cl. 128—127)

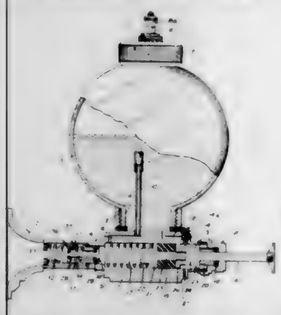
1. An anatomical automatically adjustable diaphragm for vaginal use comprising in combination a central flexible diaphragm of cup form expansible to dish form and terminating in a rim portion, a closely coiled helix normally constrained toward expansion and coextensively connected to the rim portion, said helix expansively constraining the diaphragm to its dish form, and helix expansion limiting means coextensive with the helix and disposed within the helix.

2,529,364
SYSTEM FOR CONTROLLING AUTOMATIC SIGNALING FOR TELEPHONE LINES
Harvey W. Balzer, Downers Grove, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 22, 1947, Serial No. 762,595
9 Claims. (Cl. 179—27)



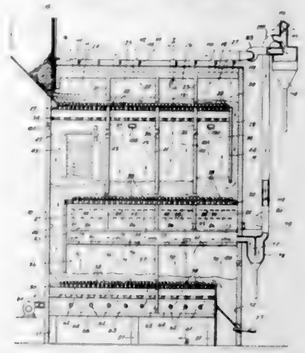
1. In a telephone system, lines, an operator position, automatic switches for extending connections from said position to said lines, means for starting signalling of connected lines, and common apparatus at said position operable prior to extending connections from said position for controlling the starting of signalling of connected lines, said means effective for starting signalling responsive to connection to a line in case said common apparatus is operated in one manner and operated under control of said position after connection to a line in case said common apparatus is operated in another manner.

2,529,365
LIQUID SOAP DISPENSER
George Roy Barksdale, Troy, N. C.
Application May 6, 1947, Serial No. 746,387
7 Claims. (Cl. 222—400.5)



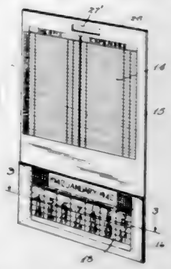
1. A liquid dispenser comprising a supporting base, a reservoir supported on and above said base, a liquid tight closure at the top of said reservoir for the introduction of liquid therein, means including a valve controlled inlet to said reservoir carried by said closure at the top of said reservoir for introducing a gas under pressure into said reservoir to establish and maintain a superatmospheric pressure therein, said base having a downwardly directed discharge orifice connected by a passageway to the interior of said reservoir, a normally closed valve in said passageway, a plunger mounted for reciprocation in said base on a horizontal axis and adjacent said discharge orifice, spring means normally urging said plunger outwardly of said base, and means controlled by said plunger near the end of its forward stroke for opening said valve and thereby releasing liquid from said reservoir.

2,529,366
FLUIDIZING PROCESS AND MECHANISM
Wolf G. Bauer, St. Louis County, Mo.
Application March 2, 1945, Serial No. 580,692
31 Claims. (Cl. 263—53)



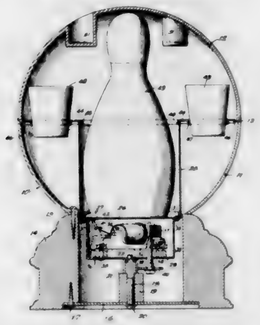
14. Apparatus for use in treating fluidizable material, including a support member, means about the support to provide lateral support for material thereon, inlet means to admit fluidizable material to the support, means to conduct a fluidizing gas into the material to provide a fluidized bed, outlet means spaced from the inlet means to contain the bed between the two, and to cause the material to flow with characteristics of a liquid from the inlet to the outlet, dividing means to separate the bed into a plurality of separately treatable sections, providing submerged ports below the fluidized surface and sized to confine the fluidizing gases, without breaking the material fluidized flow from the inlet to the outlet, and means to separate the fluidizing gas conducting means into a plurality of separately controllable sections to individually treat therewith the material in the several sections of the bed.

2,529,367
CALENDAR
John Baumgarth, Chicago, Ill., assignor to John Baumgarth Co., Chicago, Ill., a corporation of Illinois
Application August 20, 1948, Serial No. 45,360
10 Claims. (Cl. 40—121)



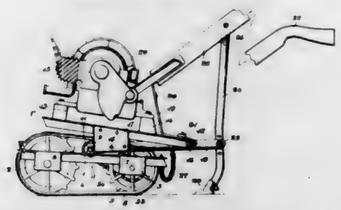
1. A calendar construction comprising a backing and principal support member, a series of calendar pages rectangularly profiled and transversely perforated for tearing along a line marginally spaced from a top edge, said calendar pages having apertures beneath their transverse perforations for hanging said pages during post current severance from said support member, said calendar having means for supporting calendar pages from said apertures after severance of the calendar pages along their transverse perforations, a plurality of securement elements integrating the marginally spaced areas of said pages with said support member, and a flap hanging downwardly from said support member for covering a portion only of said calendar pages to conceal from hanging display said securement elements and said calendar page perforations.

2,529,368
CELLARET HAVING COMBINED MUSICAL DEVICE AND ROTATABLE RACK
Jacob L. Bazelon, Chicago, Ill.
Application July 22, 1946, Serial No. 685,569
12 Claims. (Cl. 312—183)



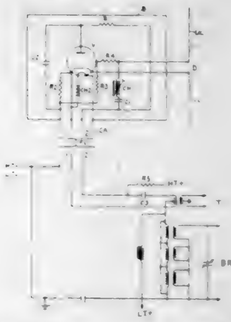
1. A rotating cellaret comprising, a casing, a cup shaped member rotatably mounted in the casing, an annular horizontally disposed rack formed at the top of the cup shaped member and adapted to carry glasses within the casing, a spring motor carried at the bottom of the cup shaped member for rotating the same, a supporting member for a bottle in the cup shaped member and a release member for the motor extending through an opening in the supporting member to be engaged by a bottle received in the cup shaped member for controlling the operation of the motor.

2,529,369
ENDLESS TREAD GARDEN TRACTOR
Samuel A. Beachy, Salisbury, Pa.
Application March 22, 1945, Serial No. 584,169
1 Claim. (Cl. 97—48)



In a cultivator, a main frame including a pair of spaced longitudinally extending side rails, an endless ground engaging traction member mounted on said frame between the side rails thereof, an auxiliary frame pivoted to the main frame intermediate the ends of the latter, a platform carried by said auxiliary frame having a forward part extending beyond and overhanging the point of connection between said frames, an earth working implement connected to the auxiliary frame, a motor mounted on and having its major portion disposed upon the forwardly extending part of the platform in counterbalancing relation to said earth working implement and having driving connection with the traction member for actuating the latter, and means carried by the auxiliary frame for manually tilting the latter to thereby move the earthworking implement above the surface being worked independently of the main frame and the endless traction member when the latter encounters an obstacle tending to tilt the same in a direction to force the earth-working implement below a predetermined depth in the surface being worked.

2,529,370
COUPLING APPARATUS FOR WIRELESS ANTENNAS
David Arthur Bell, London, England, assignor to A. C. Cossor Limited, London, England, a British company
Application July 1, 1947, Serial No. 758,340
In Great Britain June 24, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 24, 1966
7 Claims. (Cl. 250—9)

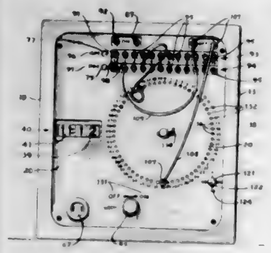


1. Apparatus for coupling a radio antenna to a radio receiver for receiving two bands of waves of different frequencies, the apparatus comprising an amplifier for connecting the receiver to the antenna, and a circuit connected in shunt with said amplifier, said circuit presenting a relatively low impedance to signals within one frequency band and a relatively high impedance to signals within another frequency band, said amplifier including an output stage having an electron discharge valve, an impedance element connected in the cathode lead of said electron discharge valve, and the output circuit of the amplifier being connected across said impedance element.

2,529,371
ELECTRIC TIMER
Leonard P. Benjamin, Huntington, W. Va.
Application March 17, 1950, Serial No. 150,287
9 Claims. (Cl. 161—1)

1. In an electric timer, a wall portion provided with opposite faces and a plurality of spaced-apart perforations extending from face to face and arranged in a circle; a contact plate carried on one face of the wall portion; electric switch means including a shaft, a rotatable mem-

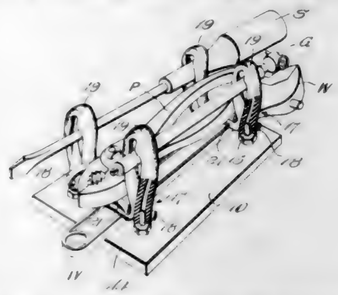
ber carried by the shaft, an electric contact arm of resilient electricity-conducting material carried by the shaft and constructed and arranged to sweep over one like mouth of said holes, one after another, said arm being disposed closely adjacent that face of the wall free of said plate, an electric bridge having two brushes of resilient material and being carried by said rotatable member with one brush extending toward said arm and constructed and arranged to sweep over the other mouths of said holes, one after another, with the other brush in contact with said plate; means to rotate said rotatable member; signal means having two electric terminals; an electric appliance outlet having two terminals; a plurality of hour jacks; electric commutator means; means electrically connecting said jacks with said commutator means; mechanical means operatively connecting said rotatable member with said commutator means to mechanically actuate said commutator means; means electrically connecting said commutator means with one terminal of said signal means;



means electrically connecting the other terminal of said signal means with said contact arm; a pair of "off" jacks; a pair of "on" jacks, a source of electric current; connecting means electrically connecting said source of electric current with the terminals of said appliance outlet; an electric switch interposed in said connecting means; electric means operatively connected with said "on" jacks to close said switch; means operatively connected with said "off" jacks to open said switch; removable means electrically connecting a selected hour jack with either of said "off" jacks; removable means electrically connecting a selected hour jack with either of said "on" jacks, both of said last two means including a portion of electricity conducting material detachably extending into any selected of said perforations and of a length insufficient to extend outwardly of said one face of said wall; and removable means electrically connecting said arm and first brush, including a portion of electricity conducting material detachably extending into any selected perforation and of a length sufficient to extend outwardly of both of said faces.

2,529,372
TOOLHOLDER
Robert Burns, Barksdale Field, La.
Application May 27, 1946, Serial No. 672,664
4 Claims. (Cl. 211—89)

1. A tool holder of the class described comprising a base plate adapted to be attached to a wall surface, a pair of spaced lengths of elastic tubing each of which is attached to said base plate at opposite ends, portions of said lengths of tubing being formed into loops and adjustable choke rings embracing doubled portions of said lengths of tubing, said choke rings being made small enough to yieldingly clamp portions of said lengths of tubing on other portions of said tubing,

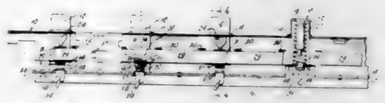


whereby the lengths of said loops may be adjusted to cooperate in holding a tool.

2,529,373
TREATING SILICON STEEL
Charles H. Campbell, Bedford, and Donald S. Ferito, Cleveland, Ohio, and Carl W. Stoker, Vandergrift, Pa., assignors of one-half to The American Steel and Wire Company of New Jersey and one-half to Carnegie-Illinois Steel Corporation, both corporations of New Jersey
No Drawing. Application March 25, 1947
Serial No. 737,086
2 Claims. (Cl. 148—12.5)

1. A method of treating silicon steel containing between 2.5 and 3.5% silicon comprising continuously annealing said steel in an atmosphere containing 18 to 23% hydrogen, balance substantially nitrogen and saturated with water vapor at room temperature, the temperature of said annealing being between 1600° and 1725° F., said atmosphere and temperature combining to develop on the surface of said steel a well-defined pervious zone of low-silicon iron interspersed with silica and iron silicates, and subsequently box annealing said steel with lime in contact with the surfaces thereof in the presence of said pervious zone between 1900° and 2100° F. to further decarburize said steel and to develop the magnetic characteristics thereof.

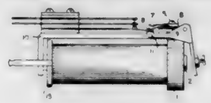
2,529,374
ARTICLE SELECTOR AND PRICE-SETTING UNIT
Mario Caruso, Maplewood, N. J., assignor to C-Eight Laboratories, Newark, N. J.
Original application December 26, 1946, Serial No. 718,529. Divided and this application December 10, 1947, Serial No. 790,843
3 Claims. (Cl. 312—35)



1. In a push button assembly for article selectors of vending machines, a substantially channel-shaped hollow casing, closed at its upper end and open at its bottom, the upper casing end being provided with spaced perforations for the reception of push buttons, a closure for the open bottom end of the casing, push buttons operative in and normally projecting through the perforations, each of the buttons comprising a substantially hollow structure closed at its upper,

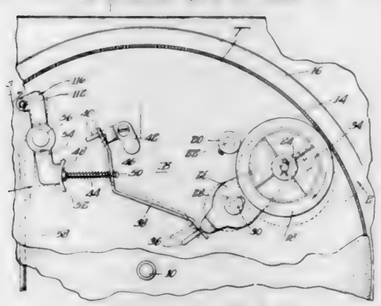
projecting portion and guide legs, arranged in pairs, depending from that upper button portion, a plunger projecting downwardly from the button top and terminating in a switch-actuating pin, a spring element guided by said plunger and supported at one end by said closure, its other end bearing against the button top and stop means at the upper portion of the button for limiting the latter's upward movement induced by said spring element.

2,529,375
SWITCHING DEVICE
Milton A. Clement, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 28, 1945, Serial No. 619,107
1 Claim. (Cl. 200—104)



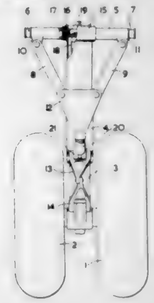
In an electromagnetic relay, an armature, a core having a coil thereon for energizing said core, a heelpiece secured at one end to said core and having another end supporting said armature adjacent the other end of said core, a first armature spring mounted on said other end of said core and normally tensioned against said armature when said coil is deenergized, a second armature spring mounted on said other end of said core and tensioned against said armature only when said armature is operated by the energization of said coil, a spring contact pile-up including switching contacts mounted on said one end of said heelpiece and operatively controlled by said armature for switching electrical circuits terminating in such switching spring contacts, an armature mounting bracket rotatably supporting said armature, and means including a collar around said other end of said core and a screw passing through said armature springs, said bracket, and the other end of said heelpiece into said collar for rigidly securing said armature springs, said bracket and the other end of said heelpiece to the other end of said core.

2,529,376
TURNTABLE MECHANISM
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago, Corporation, Chicago, Ill., a corporation of Illinois
Application October 30, 1946, Serial No. 706,605
12 Claims. (Cl. 74—472)



1. A power transmission from an electric motor to a phonograph turntable in which is comprised a friction wheel movable toward and from an associated rotatable element in the transmission adapted to drive the latter when in contact therewith, an electrical circuit extending between a source of power and the motor, a switch interposed in the circuit for controlling operation of the motor, a motion transmitting device in connection with the friction wheel for moving the same towards its associated rotatable element in the transmission, and operating means for the motion transmitting device operatively associated with the switch and actuated with the operation thereof to advance the friction wheel into contact position with its associated rotatable element only when the circuit is closed to the motor, said motion transmitting device having means for permitting free limited independent movement of the friction wheel away from said associated rotatable element when the circuit is opened, thereby causing said rotatable element to move the friction wheel to a position inoperative to transmit motion and whereby the transmission is interrupted and maintained in an interrupted condition.

2,529,377
UNDERCARRIAGE SUSPENSION FOR AIRCRAFT
Henry Davies, Stockton Heath, England, assignor to Electro-Hydraulics Limited, Warrington, Lancashire, England, a company of Great Britain
Application November 8, 1948, Serial No. 58,955
In Great Britain December 3, 1947
5 Claims. (Cl. 244—103)

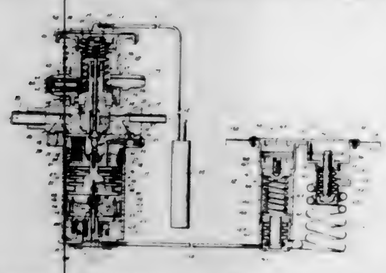


1. In an aircraft undercarriage suspension, a cross member having spaced bearings for mounting said cross member on an aircraft and a bearing part between said spaced bearings; a resilient telescopic unit having a part mounted in said bearing part for sliding movement relative to said cross member; and tie members pivotally connected respectively to said unit and to said cross member at points spaced from said bearing part, whereby the undercarriage vertical load is transmitted from said unit to said cross member wholly through said tie members.

2,529,378
THERMOSTATIC VALVE WITH MULTIPLE OVERRIDE
John E. Dube, Chesterfield, Franklin M. MacDougall, Kirkwood, and George D. Bower, University City, Mo., assignors to Alco Valve Company, University City, Mo., a corporation of Missouri
Application June 9, 1945, Serial No. 598,494
17 Claims. (Cl. 236—92)

1. In a mechanism of the kind described, a housing having an inlet for connection into a

fluid line containing fluid under pressure, a main control device to regulate flow through the housing, main control means for moving said device, an abutment device also adapted to move the main control device, a movable wall for moving the abutment device, said movable wall having enclosed pressure chambers on opposite sides thereof, a fluid flow line connected from the inlet into



one chamber and connected from the other to exhaust, a port between the chambers and moved with the movable wall, a valve adapted to regulate flow through the port, and automatic means to position the valve, comprising a thermally responsive system containing an expansible fluid, an expansible wall in the system, and connected with the valve for moving the same in response to changes in volume of the expansible fluid.

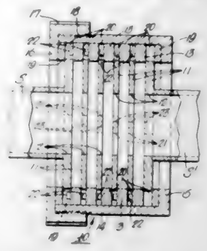
2,529,379
ARRANGEMENT FOR THE CONTROL OF A VARIABLE-SPEED MECHANISM
François Pierre Joseph Hector Dumont, Jambes, Belgium
Application December 2, 1948, Serial No. 63,042
In Belgium August 12, 1948
8 Claims. (Cl. 192—3.5)

1. An arrangement for the control of a variable speed mechanism which is disposed between a clutch mechanism and a driven shaft and which comprises at least one sliding pinion, comprising a member with a reciprocating motion connected directly to said pinion, a cam in a plane parallel to said reciprocating motion with which a part of said member rests in contact, a member for controlling the declutching of the aforesaid clutch mechanism, a locking member for said cam, a mechanical connection between said locking member and the de-clutching control member such that said locking member is disengaged from its locking position at the instant when declutching takes place, a rocking bar on which said cam is keyed, a second bar having the same axis as said rocking bar and rotatable about its axis by the operator for preparing the speed change, movable elements rotatable about one of said bars, a spring having one extremity which rotates with the bar about which said movable elements do not rotate while the other extremity thereof is connected to said movable elements, and an abutment mounted on the bar about which said movable elements do not rotate, against which the latter abuts under the action of said spring when the other bar is rotated.

2,529,380
REFRIGERATOR CABINET
James Loren Fletcher, Fayetteville, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application January 10, 1946, Serial No. 640,165
4 Claims. (Cl. 220—9)

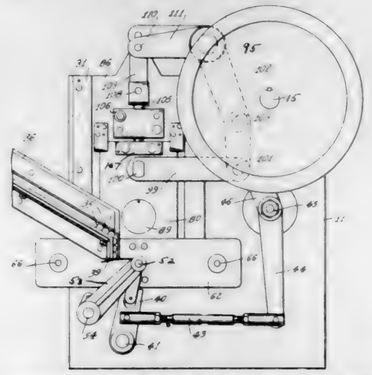
1. In a refrigeration structure, the combination of a shell having an inwardly extending flange, a liner having an outwardly extending flange, the shell and the liner being disposed in spaced relation to one another, insulation material disposed between the shell and the liner, a plurality of indentations formed in the shell flange, bridging members disposed over said indentations and attached to said flange, a breaker strip disposed over and closing the space between said flanges, a trim member extending over a portion of said breaker strip adapted to hold the breaker strip in desired position, said trim member having its edges turned inwardly to form a plurality of sockets, clip members secured to the trim member, each clip member having a body, the edges of said body being disposed in said sockets to secure the clip member to the trim member, said clip body having a resilient tongue extending therefrom within the indentation, the tongue including spaced members nesting against opposite walls of the indentation, and a member resiliently engaging the under side of the bridging member, said tongues yieldably locking the trim member in place in the structure.

2,529,381
WAVE GUIDE INTERCONNECTING DEVICE
William Frear, Fox Chase, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 30, 1944, Serial No. 570,643
7 Claims. (Cl. 178—44)



4. In a device adapted to be introduced in the length of a wave guide for interconnecting sections thereof, a plurality of rotatably mounted members, each of said members having an opening generally corresponding in size and shape to the inside contour of the wave guide, a plurality of rotatably mounted spaces arranged in alternating relationship with said members, each of said spacers having an opening of a size and shape to leave the opening in said members unobstructed at all times, and each of said spacers further having means engageable with the immediately adjacent members to establish a connection therebetween so that upon relative angular displacement of the wave guide sections said members may be rotated to provide the effect of a twisted guide.

2,529,382
TRIMMING MACHINE FOR CUPS AND THE LIKE
John H. Fridén, Maplewood, N. J., assignor, by mesne assignments, to Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Application April 3, 1945, Serial No. 586,367
19 Claims. (Cl. 164—48)

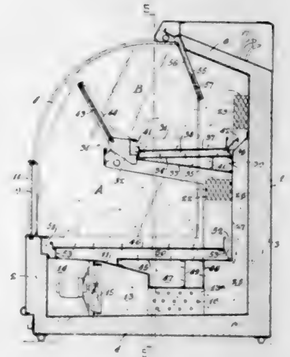


1. In a machine of the class described, a frame, a die carried by said frame having an opening for receiving and retaining a cylindrical portion of a work piece, a cutter extending substantially axially of said die opening and into said portion of the work piece, a member for supporting said cutter, a member shiftably mounted on said frame and carrying said supporting member, said supporting member being given substantially rectilinear bodily movement in a direction transverse to the axis of said die opening upon shifting of said carrying member, said supporting member being shiftable on said carrying member to move said cutter substantially rectilinearly in a direction transverse to the axis of the die opening and at about right angles to said bodily movement, means for imparting said shifting movements to said members to carry the cutter successively in four directions from the axis of the die opening, said means including a rotary shaft and cams thereon, and stationary cutting edges arranged to cooperate with said cutter upon such movements to cut away predetermined portions of said work piece.

2,529,383
SAFETY PIN
Isadore Glasband, Hartford, Conn.
Application June 14, 1947, Serial No. 754,701
1 Claim. (Cl. 24—156)

In a safety pin having a wire spring coil at one end, a body extending from one end of the coil, and a sharp pin portion extending from the other end of said coil, a shield having an upper tubular arm fitting closely on the terminal portion of said body, said shield having a lower arm for receiving the extremity of the said sharp portion, said arms being connected by a substantially U-shaped bight portion, the sides of the lower half of the bight portion and the lower arm forming lips, said lips having edges curved from the bight portion rearwardly towards the spring coil and downwardly away from the upper arm, said edges in plan flaring from the tubular arm to a width greater than the diameter of the said wire, contracting towards each other to a space less than said diameter and then expanding to a U-shaped portion having a width greater than said diameter.

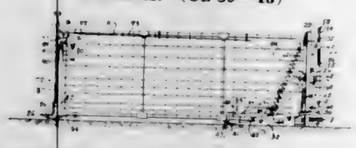
2,529,384
REFRIGERATED SELF-SERVICE DISPLAY CASE
David J. Greiling, Kendallville, Ind., assignor to McCray Refrigerator Company, Kendallville, Ind., a corporation of Indiana
Application September 24, 1948, Serial No. 50,912
10 Claims. (Cl. 62—89.5)



1. In a display case of the class described including a case with separate upper and lower open-top refrigerating zones, an air cooling and distributing system for said zones having, in the base of the case below said zones, two side and an intermediate forwardly and rearwardly extending conduits in communication with each other at their forward ends, means for creating a forced circulation of air through said conduits with the air flowing in one direction through the intermediate conduit and in the other direction through the side conduits, refrigerating means for the air in its passage through said conduits, and means at the back of the case providing separate communication between the side and intermediate conduits with both said zones to cause a forced circulation of cooled air to each zone from certain of said conduits and a return of warmed air from each zone to certain other of said conduits.

2,529,385
BOBBY-PIN SPREADER AND APPLICATOR
James L. Guss, Manilla, Iowa
Application December 19, 1947, Serial No. 792,775
2 Claims. (Cl. 132—1)

2. A bobby pin spreader and applicator, comprising a body portion having a through passageway for slidably receiving a bobby pin, an opening in the body portion extending at right angles to the through passageway and communicating with said passageway, a slide movably mounted in said opening, said slide being provided with a wedge surface at one end thereof adapted to extend longitudinally of the through passageway with the thin edge of the wedge adjacent the mouth of the passageway and a slot centrally of the slide, the thin edge of the wedge adapted for engaging the open ends of said bobby pin to thereby separate the prongs of the bobby pin when the same is inserted in the through passageway, a vertically disposed projection on said body portion, a vertically disposed lever pivotally mounted on said body in opposed relation to said projection and adapted for pivotal movement toward said projection, a finger on the lower end of said vertically disposed lever positioned in the slot in said slide, so that when pressure is applied to said lever to move said lever toward said vertically disposed projection the coaction of the finger with the slot in said slide will cause said slide to move in the direction to remove said slide from said through passageway to move the projection on said slide outwardly of the prongs of said bobby pin.

2,529,386
VEHICLE ACTUATED GATE
Frederick A. Guth, Waverly, Ohio, and Harold F. Guth, Memphis, Tenn.
Application December 4, 1946, Serial No. 713,876
9 Claims. (Cl. 39—43)

1. In combination with a vertically movable gate, having means pivotally supporting said gate for vertical movement, a rotatable member having a portion oscillatably supported in substantially vertical position transverse the wheelway of the wheels of a vehicle, for depression in opposite directions by vehicles approaching and leaving said gate, said depressions respectively rotating said member in opposite directions; an elongated rotatable shaft horizontally disposed substantially parallel to said wheelway; a lower arm rigidly secured to the end of said member remote from said wheelway substantially at right angles to said portion, said lower arm being swung in opposite directions by the respective rotations of said member, an upper arm rigidly secured to said shaft, a composite pitman secured at one end to said lower arm and, spaced thereabove, having means secured to said upper arm, said pitman including a telescoping plunger and sleeve, plunger carried means engaging said sleeve to limit said telescoping and effect movement of said sleeve, and compression spring means yieldingly engaging said means secured to said upper arm to effect swinging of said upper arm and rotation of said shaft upon member-rotation swinging of said lower arm; and means coupling the opposite end of said shaft to said gate to effect said vertical movement of said gate to open position upon rotation of said shaft and return vertical movement thereof to closed position upon reverse rotation of said shaft.

2,529,387
METHOD OF PRODUCING BESSEMER STEEL
Ture Robert Haglund, Stockholm, Sweden, assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden
No Drawing. Application August 8, 1947, Serial No. 767,657. In Sweden July 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 12, 1963
5 Claims. (Cl. 75—60)

4. In the process for the manufacture of iron or steel from pig iron by Bessemer blowing consisting in blowing with a blast essentially consisting of air during the oxidizing of a substantial portion of the carbon content of the pig iron, and thereafter blowing with a blast essentially consisting by volume of at least 20% carbon dioxide, at least 20% oxygen and less than 10% nitrogen with the carbon dioxide and oxygen forming at least 90% of said blast.

2,529,388
PROCESS FOR ACCELERATING THE FREEZING OF FOODS
Gordon Hammond, Ashland, and Raymond E. Jacke, Richmond, Va., assignors to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application November 4, 1946, Serial No. 707,588
2 Claims. (Cl. 99—192)

1. The process of preparing a frozen food product which comprises loading a quantity of the product to be frozen into a thin-walled, flat rectangular retail sized container of sufficient rigidity to be self sustaining and having major and minor dimensions, and being composed substantially entirely of a single thickness of aluminum foil of a caliper not substantially in excess of .005 inch nor substantially less than .003 inch closing the container substantially hermetically, and extracting heat predominantly by conduction through the larger surfaces of said container until the product has become frozen.

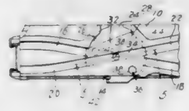
2,529,389
METHOD OF MAKING WOOD SEPARATORS FOR LEAD-ACID ELECTRIC ACCUMULATORS
Harold John Hampton, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Co., a corporation of New Jersey
No Drawing. Application January 25, 1947, Serial No. 724,477. In Great Britain December 10, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 10, 1965
3 Claims. (Cl. 117—57)

1. A method of processing dried, alkali-treated wood separators for lead-acid electric accumulators comprising the steps of immersing the separators in an aqueous solution of sodium silicate of about 1.04 specific gravity at a temperature near the boiling point of the solution, drying the separators, immersing the separators in a solution of about 3 percent polyvinyl chloride in cyclohexanone for 2 to 3 hours, the amount of said polyvinyl chloride being insufficient to encase completely the fibers of said separators, drying the separators, immersing the separators in a 3 percent aqueous solution of sulfonated oil wetting agent at a temperature of about 60° C., and drying at a temperature up to 140° C.

2,529,390
CORNER TRUCK UNIT
Arthur Hauer, Detroit, Mich.
Application January 24, 1949, Serial No. 72,393
2 Claims. (Cl. 16—30)

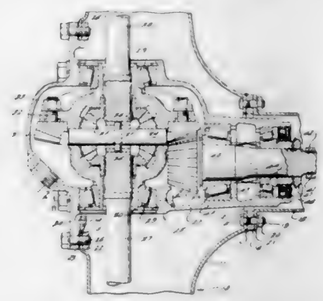
1. A corner truck unit of the character described adapted for mounting beneath framed vertical panel section assemblies, for use therewith, comprising an elongated sheet metal base section formed with flanged edges along opposite sides thereof and with open, vertical frame support casings at opposite ends thereof, positioned at opposing predetermined horizontal angles therewith, a swivel truck caster mounted beneath the base central section and securely attached thereto, said caster wheel being of a size to project its lower edge below the respective end support casings.

2,529,391
BOLT MECHANISM FOR MACHINE GUNS
Ellsworth C. Hedges, deceased, late of West Hartford, Conn., by E. Warren Hedges, administrator, Manchester, Conn., assignor to Colt's Manufacturing Company, a corporation of Connecticut
Application January 31, 1946, Serial No. 644,502
5 Claims. (Cl. 89—33)



1. A bolt mechanism for a machine gun comprising in combination, a longitudinally movable breech bolt provided at the top with a recess partly bounded at its upper portion by longitudinally opposite arcuate walls conforming to a cylinder having a vertical axis which recess has undercuts below the said arcuate walls and extending radially outward therefrom, the said bolt being also provided at the top with four grooves arranged in pairs to form incomplete parts of two oppositely inclined intersecting cam paths with the adjacent ends of the grooves of each pair respectively terminating at and interrupting the said opposite arcuate walls of the recess, a cam block angularly movable in the recess about the said axis and provided at the top with a groove adapted to register with the said grooves of either pair in the top of the bolt to complete either of the said cam paths, the said cam block having opposite arcuate walls approximately fitting the said opposite arcuate walls of the recess and also having opposite integral flanges below the said arcuate walls of the recess and of the cam block and projecting outward into the said undercuts in the recess to prevent upward movement of the cam block while permitting angular movement thereof about the said axis, and releasable means for holding the cam block with the groove in the top thereof in register with the grooves of either pair in the top of the bolt.

2,529,392
SUPPORT FOR REAR AXLE DIFFERENTIALS
Alexander G. Herreshoff, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 23, 1947, Serial No. 793,467
9 Claims. (Cl. 74—713)

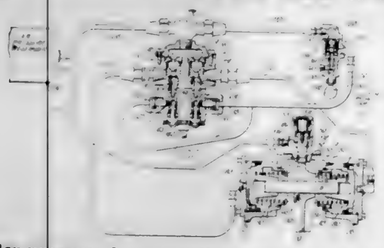


1. In an assembly comprising an axle housing having first and second openings at opposite sides, a shaft housing having one end detachably connected to the first opening in the axle housing, a drive shaft extending along and within the shaft housing, axles extending in opposite directions along and within the axle housing from the region of the first and second openings, means connecting an end of the drive shaft and adjacent ends of the axles in a differential drive, a structure comprising a sleeve-like portion projecting through said first opening into the shaft housing with predetermined lateral clearance at all points therealong and supporting said end of the drive shaft and a remaining portion supporting said adjacent ends of the axles and the differential-drive means and passing through the second opening, the combination therewith, of means attaching and supporting the said structure only to and on the region of the axle housing surrounding the second opening.

2,529,393
FLUID CONTROL MEANS FOR AUXILIARY TRANSMISSIONS
Francis Marion Hogue, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 28, 1946, Serial No. 700,068
3 Claims. (Cl. 74—334)

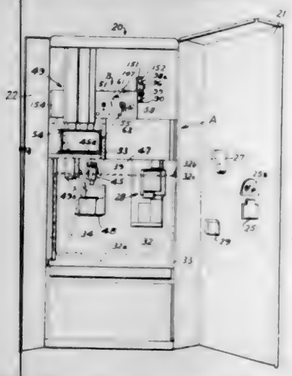
1. Control means for a shifter fork adapted to be shifted from a neutral position to a gear engaging position comprising piston means for shifting said shifter fork to its gear engaging position, a fluid pressure system including selector valve means for selectively connecting said piston means with a source of fluid under pressure to actuate said piston means, lock-out means biased in a direction to engage said fork in its

gear engaging position to prevent return of the latter to its neutral position, and means in constant communication with said source of fluid



under pressure for normally rendering said lock-out means inoperative above a predetermined pressure of said source of fluid under pressure.

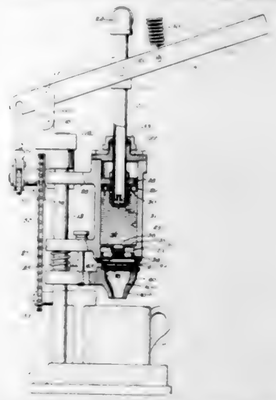
2,529,394
LIQUID VENDING APPARATUS
Robert R. Hull, Pasadena, Calif., assignor, by mesne assignments, to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Application May 20, 1947, Serial No. 749,246
28 Claims. (Cl. 225—21)



1. Liquid dispensing apparatus comprising, in combination, a supply tank, a dipper device mounted to swing within said tank, power means, a driving connection between said power means and said dipper device actuatable to swing the latter into dispensing position, and means adapted and arranged, when the quantity of liquid contained in the dipper as it approaches the dispensing position is sufficiently less than a predetermined normal, to act upon said driving connection and thereby limit the extent to which it can continue dispensing operations.

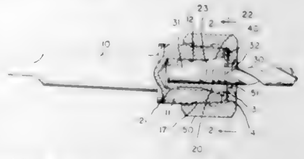
2,529,395
COFFEE MAKER AND DISPENSER
Frederick E. Hummel, Chicago, Ill.
Application December 19, 1947, Serial No. 792,646
4 Claims. (Cl. 99—302)

1. Apparatus for making coffee or for like purposes, comprising: means for supporting and locating a permeable package of ground coffee bean or analogous material from which a solute is to be extracted, said supporting means being adapted to permit liquid to flow downwardly to a receiving receptacle after passing through said package, a member superposed above the said package and reciprocable vertically to a limited extent, said member having a liquid-holding chamber and a discharge port at its lower end leading out of said chamber and providing a passageway from said chamber for discharge of liquid onto said package, a valve normally closing said discharge port but adapted to be forced open by hydraulic pressure developed within said



chamber, and means forming a liquid-tight joint between said member and said supporting means when said member is in its down position, said joint encircling said package and effective to confine the flow of liquid emerging from said discharge port to a path including said package, and manually controllable means for forcing liquid out of said chamber through said discharge port.

2,529,396
TOOL SUPPORT
Robert E. Hunt, Grosse Pointe Park, Mich.
Application February 9, 1948, Serial No. 7,184
6 Claims. (Cl. 279—52)

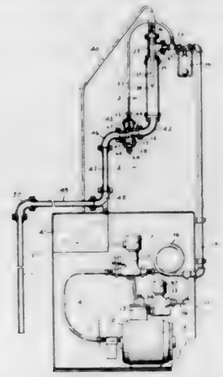


6. A holder for a rotary tool having a key receiving notch in its shank, said holder comprising a collet having a transverse keyway and radially movable jaws, a key in said keyway and entering the notch in the tool shank to transmit driving torque and take up axial thrust, means for moving the jaws of said collet inwardly to grip the tool shank, and means for retaining said key in said keyway.

2,529,397
MILK SAMPLING APPARATUS
Norman C. Kottkamp and Paul J. Bailey, Indianapolis, Joseph M. Trimble, Lebanon, and Robert M. Langsenkamp, Indianapolis, Ind., assignors to The Langsenkamp-Wheeler Brass Works, Inc., Indianapolis, Ind., a corporation of Indiana
Application April 22, 1949, Serial No. 89,012
12 Claims. (Cl. 73—422)

7. Apparatus for obtaining a precisely measured volume of a liquid which comprises a pipe

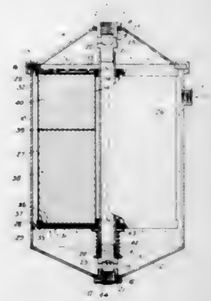
having one end to be submerged in the liquid; means selectively producing a high degree of vacuum in the pipe as a means of pulling the liquid into the pipe; valve means interposed in said pipe; a piston in said valve means arranged to be shifted across a liquid flow in the pipe between said end and said vacuum means; said piston having a passageway thereacross for said flow, and having a volume equal to that of the desired fluid sample; and a body in said valve means within which said piston is shiftable; said body having a discharge opening with which said piston passageway may communicate upon shifting the piston to carry its said passageway out of said flow; whereby said passageway is initially filled by said liquid flow in the conduit in one position, and the piston may be shifted to cut off that pas-



sageway-filled liquid from said flow and deliver it to said body opening communication in a second position; a liquid surge chamber as a part of said conduit located between said body and said evacuating means; an electrode in said surge chamber; a flow line connection from said pipe tween said surge chamber and said vacuum means to said body; electrically actuated means for restoring the conduit to substantially atmospheric pressure following a period of evacuation; and an electric circuit including said electrode and said actuated means closed by contact of said liquid with said electrode; whereby said liquid may reverse its direction of flow in said conduit and through said measuring passageway; said body being at a higher elevation than that of said one end, and said surge chamber being at a higher elevation than that of said body.

2,529,398
WATER PURIFYING AND CONDITIONING APPARATUS
James H. Krieck, Westport, Conn.
Application March 3, 1948, Serial No. 12,778
4 Claims. (Cl. 210—24)

1. In an apparatus for purifying and conditioning water in cooling systems for engines of the automotive type comprising a housing having a water inlet and a water outlet, a removable cartridge interposed between the inlet and outlet and containing a filtering agent for purifying the water and a conditioning agent for the water, the housing having an upper part and a lower part containing a sump, the water inlet being adjacent the top of the lower part above the sump, a bushing in the upper part and a bushing in the lower part, a connecting element between the bushings, means in the bushings engaging the element to draw the upper part and the lower part together, the cartridge being of annular shape having imperforate side walls and having screened inlet openings at its bottom and screened outlet openings at its top, its outer diameter in spaced relation to the wall of the lower part of the housing, and its inner diameter surrounding the element, the cartridge being disposed within the lower



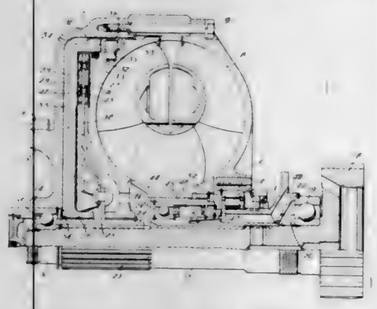
part of the housing and the space between its outer side wall and the wall of the housing forming an annular passage for the water from the inlet to the sump, and means in the sump to force the cartridge toward a shoulder in the upper part of the housing, the bushings being identical, the one in the upper part containing the water outlet, and the one in the lower part containing a plug for periodical removal for cleaning the sump.

2,529,399
APPLICATOR FOR ROUGE AND THE LIKE
Ralph E. Kruck, Springfield, Mass.
Application October 17, 1946, Serial No. 703,738
1 Claim. (Cl. 15—209)

An applicator holder for a cosmetic material comprising in combination, a pair of relatively movable holder members each holder member having an inner and outer side and an upper slotted end providing spaced ears and each holder member having an inset on the inner and adjacent sides thereof thereby providing a longitudinal cavity between said ears, an applicator body disposed within the slotted ends and between the ears of said holder members, an applicator tip secured to said applicator body, and pairs of pivot pins pivotally connecting said applicator

body and said ears of said holder members for permitting swinging movements of said holder members, between a closed position with the inner sides thereof in adjacency, to an open position with the outer sides thereof in adjacency, all adapted and arranged whereby said holder members may contain said applicator body and tip and conceal said applicator tip within the cavity when in said closed position and when said holder members are in said open position said holder members will support said applicator body and applicator tip in an exposed position.

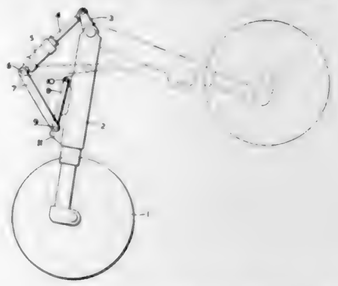
2,529,400
FLUID IMPACT COUPLING AND CLUTCH
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application October 18, 1947, Serial No. 780,630
8 Claims. (Cl. 192—3.2)



1. In combination, a fluid torque transmitter comprising a driving member, a driven member housed within said driving member and driven thereby, a shaft adapted to be driven from said driven member and rotatably supporting said driven member, a clutch member housed in said driving member and splined on said shaft, spring means normally biasing said clutch member out of clutching engagement with said driven member, and means responsive to increase in fluid pressure in said transmitter over that available when said transmitter is idling for shifting said clutch member into engagement with said driven member to drive said shaft.

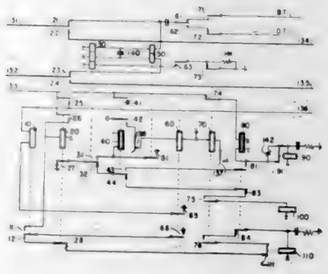
2,529,401
RETRACTABLE UNDERCARRIAGE FOR AIRCRAFT
Derek Tom Lawson, Liverpool, England, assignor to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain
Application August 23, 1948, Serial No. 45,763
In Great Britain August 25, 1947
4 Claims. (Cl. 244—102)

1. In a retractable undercarriage for aircraft, an undercarriage leg mounted on the aircraft for movements to lowered and to retracted positions; a foldable structure comprising a drag link, a radius rod, and means pivotally connecting one end of said drag link to one end of said radius rod; means fixed with respect to said aircraft pivotally connecting the other end of said drag link directly to the aircraft; means pivotally connecting the other end of said radius rod to said leg; a part fixed with respect to said leg; and a part on said drag link directly engageable with said part fixed with respect to said leg when said leg is in lowered position, whereby landing load is transmitted from said leg through said



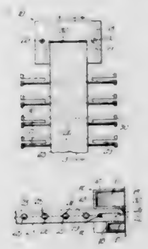
drag link to said aircraft without being transmitted through said radius rod.

2,529,402
SELECTOR SWITCH IN AUTOMATIC TELEPHONE SYSTEMS
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 12, 1947, Serial No. 728,184
8 Claims. (Cl. 179—18)



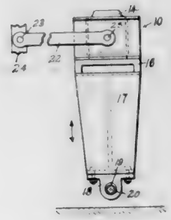
1. In an automatic switch having incoming connections over which said switch is seized, an electropolarized line relay having a pair of windings, a first circuit including one of said incoming connections connected to one of said windings for energizing said one winding, means for completing said first circuit to operate said line relay responsive to seizure of said switch over said incoming connections, a second circuit for energizing said other winding, means for completing said second circuit to said other winding in response to the operation of said line relay, a source of current connected in said circuits, said one and other windings of said line relay being wound in opposition and the flux produced by said other winding by the current flow in said second circuit being electromagnetically opposed by the flux produced by said one winding by the current flow in said first circuit, said first means including said first circuit for restoring and reoperating said line relay in response to the receipt of each impulse of a series of switch operating impulses received over said incoming connection from an impulse sender, means including a third circuit for reducing the current flow in said other winding to reduce the opposing flux produced by said other winding, contacts for completing said third circuit, and means for operating said contacts in response to the first impulse of said received series of impulses.

2,529,403
TIE RACK
John L. Mack, Sr., Chicago, Ill.
Application August 30, 1946, Serial No. 693,951
5 Claims. (Cl. 211—100)



1. A tie rack comprising an oblong plate embodying a pair of complementary sections, each of said sections being provided with transverse, semi-cylindrical grooves, said grooves forming cylindrical bores when said sections remain in a face to face relation, cylindrical rods received within said bores for free rotation therewithin, the ends of said rods extending beyond the side edges of said plate and being provided with longitudinal recesses for receiving individual ties therewithin, and a hinge member to which said plate is pivoted for angular shifting movement.

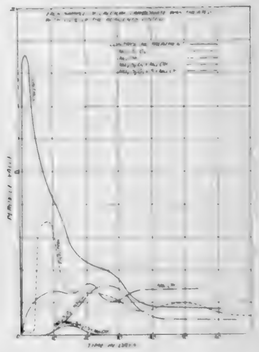
2,529,404
METHOD OF AND APPARATUS FOR COMPACTING MATERIAL
Arthur B. Mays, Adrian, Mich.
Application April 26, 1947, Serial No. 744,229
11 Claims. (Cl. 25—41)



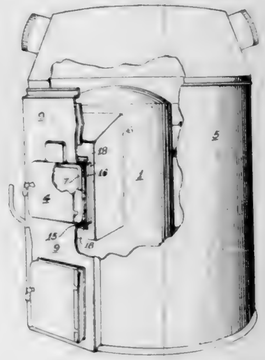
9. Apparatus for fitting together granules of material which comprises means for confining laterally a quantity of said material, a support underneath the material, and means to impart to the support a vertical sinoidal movement, and means to rapidly vibrate the lateral confining means laterally a distance much less than the amplitude of the vertical reciprocation.

2,529,405
STABILIZED COMPOSITION
Brack B. McHan, Quincy, Ill., assignor to Calcium Carbonate Company, Chicago, Ill., a corporation of Illinois
Application June 1, 1949, Serial No. 96,487
3 Claims. (Cl. 99—2)

1. A stabilized composition of matter comprising discrete particles of calcium carbonate, and sodium hydroxide as an oxidation-reduction potential reducing substance, said substance preferentially being adsorbed over oxygen reaction areas of said calcium carbonate.



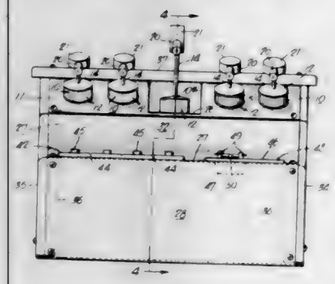
2,529,406
HOT-AIR FURNACE
Frank L. Meyer, Peoria, Ill.
Application July 14, 1947, Serial No. 760,830
3 Claims. (Cl. 126—99)



1. In a hot air furnace, an outer furnace casing provided with a frontal opening; a combustion drum situated within said casing and spaced therefrom to provide an air heating space surrounding said drums, said drum having a forwardly extending throat portion terminating in a vertical front wall situated substantially in the plane of the frontal opening of said casing, the front wall of said throat portion being provided with a fire door opening; a fire door frame secured to said front wall by a continuous peripheral weld providing a gas-tight seal between said frame and said wall, said frame encompassing said fire door opening; a packing secured to said front wall adjacent said door frame outside thereof and extending continuously around said frame, and a frontal closure member for the space between said fire door frame and the edges of said casing defining said frontal opening, said closure member being secured to said casing and including a continuous inturned flange held in firm engagement with said packing to form a gas-tight seal completely around said fire door frame, whereby

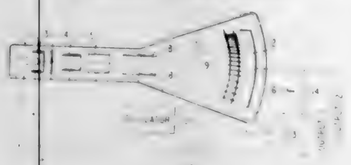
hot gases escaping outwardly through said door frame when the door is opened are prevented from being drawn around said door frame into said air heating space.

2,529,407
TOY SODA FOUNTAIN
Stephen P. Midouhas, Bristol, Pa.
Application May 23, 1947, Serial No. 750,116
2 Claims. (Cl. 225—21)



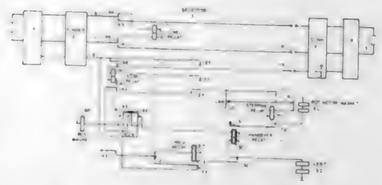
1. A toy soda fountain comprising a cabinet having a horizontal shelf, an imitation sink and ice cream compartment lid supported on said shelf, a rearwardly and upwardly inclined portion overhanging said shelf, a sloping shelf disposed above the flat shelf, a plurality of liquid dispensing bottles secured on the sloping shelf by means of bottle caps threaded to the bottle necks, whereby the shelf is tightly clamped between the cap and the bottle.

2,529,408
HIGH-FREQUENCY GENERATOR
Angelo Montani, Woodhaven, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 24, 1945, Serial No. 618,353
3 Claims. (Cl. 250—164)



1. A high frequency generator comprising an electron gun having a heater cathode, and forming electrodes, means for activating said electron gun, means for deflecting a projected stream of electrons in a fixed path, a collector anode located in said path, and a mask located in said path between said electron gun and said anode for screening a stream of electrons deflected in said path towards said anode, said mask consisting of a screen having a plurality of openings of variable areas for correspondingly varying the intensity of a stream of electrons deflected in said path and projected upon said anode through said openings of said mask, said openings of said mask occurring in at least two sequential series, the areas of the openings in each said series varying progressively from an area of minimum value to an area of maximum value according to a definite pattern.

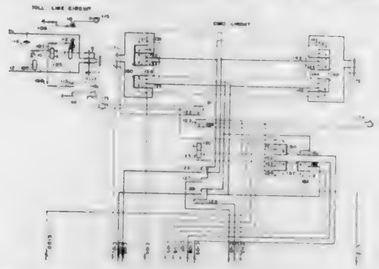
2,529,409
SELECTOR SWITCH FOR AUTOMATIC TELEPHONE SYSTEMS
Harry N. Newstedt, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application August 24, 1946, Serial No. 692,883
8 Claims. (Cl. 179—18)



1. In a selective switch having contacts, a test wiper, a motor magnet for moving said test wiper over said contacts, said contacts having negative battery potential thereon when idle and having positive battery potential thereon when busy, an operating circuit for said motor magnet, a stepping relay, a circuit for operating said stepping relay, means for operating said stepping relay over said stepping relay circuit, contacts closed by the operation of said stepping relay for preparing the operating circuit of said magnet, means for completing said prepared operating circuit to operate said motor magnet to move said wiper to engage the first one of said contacts in search of an idle one, means operated by said motor magnet for opening the operating circuit of said stepping relay to release the same, said stepping relay contacts operated in response to the release of said stepping relay to open the operating circuit of said magnet to release the same, said last means operated in response to the release of said magnet to close the operating circuit of said stepping relay, a stop relay, a circuit completed for short circuiting said stop relay in case said wiper engages a busy bank contact having positive potential thereon, for energizing said stop relay in case said wiper engages an idle bank contact having negative potential thereon, and said circuit being ineffective to energize said stop relay in case said wiper engages a bank contact having neither positive nor negative potential thereon, contacts on said stop relay included in the operating circuit of said stepping relay for opening said stepping relay circuit in response to the operation of said stop relay to thereby prevent further operation of said stepping relay and said magnet.

2,529,410
SYSTEM FOR CONTROLLING COIN RECEPTACLES OF PAY STATION TELEPHONES
Harry N. Newstedt, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 2, 1947, Serial No. 758,696
5 Claims. (Cl. 179—6.3)

1. In a telephone system, a trunk circuit having conductors, an operator position circuit, means including a plug and jack at said position circuit for connecting said position circuit to said trunk circuit, a relay in said trunk circuit, a source of coin collect potential, a collect key in said operator position circuit, a circuit including said plug and jack completed responsive to the manual operation of said coin collect key for operating said relay, coin control circuit means responsive to the operation of said relay for connecting said coin collect potential to said conductors to effect a coin collect control operation over the conductors of said trunk circuit, and a second relay circuit automatically completed upon the disconnection of said operator position from said trunk circuit in response to the removal

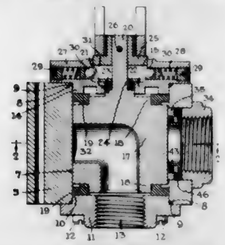


of said plug from said jack for operating said relay, said coin control circuit means responsive to said last mentioned operation of said relay for connecting said coin collect potential to said conductors to effect a coin collect control operation over the conductors of said trunk circuit.

2,529,411
GASKET FOR REPAIRING WELD AND PIT LEAKS ON PIPES
Weaver Lamont Northrup, Elm Creek, Nebr., assignor of one-third to Leonard C. Hill, Hastings, Nebr.
Application December 7, 1945, Serial No. 633,437
4 Claims. (Cl. 138—99)

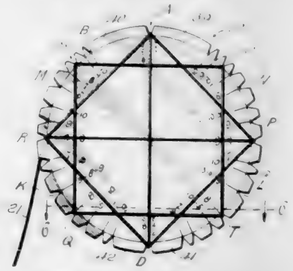
2. In a device for repairing pipes including an adjustable pipe clamp and means for engaging and sealing pipe leaks, the improvement which comprises: a malleable housing including a plate having a wall extending therefrom and an angularly disposed flange projecting from said wall for engaging irregular surfaces of a pipe thereby deforming to follow the contour thereof to inhibit creeping, a sheet of resilient material within said wall, a second sheet of material retained within said wall and engaging said flange.

2,529,412
VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application December 8, 1944, Serial No. 567,178
9 Claims. (Cl. 251—113)



1. In a valve assembly, a casing having a rotor bore and at least one cylindrical port bore leading thereinto, a rotor rotatably mounted in the rotor bore and having a flow passage therein and turnable for permitting or preventing flow of fluid through said port bore and passage, and port defining and sealing means in said port bore comprising a carrier ring removably mounted in the port bore and having one end thereof presented toward and conforming in shape to the adjacent portion of the rotor and equipped with an annular groove, a sealing ring of yieldable material mounted in and extending from said groove in sealing contact with said adjacent rotor portion, a port adapter having a boss extending into the port bore adjacent the other end of the carrier ring, and sealing means carried by the carrier ring and engaging in sealing contact with the carrier ring, the port bore and said boss for preventing leakage through the port bore past the carrier ring or the port adapter.

2,529,413
ARTJOPAT DESIGNING BOARD
Benton C. Petersen, Salina, Kans.
Application April 13, 1948, Serial No. 20,724
2 Claims. (Cl. 35—27)



1. In a device of the class described, a flat plate having a multiplicity of open notches distributed about its periphery for receiving wound loops of thread therearound, said plate being apertured at the center thereof and having radial lines extending therefrom to positions joining the apices of said open notches, said radial lines having perforations distributed along the lengths thereof in a predetermined pattern and numerical calibrations associated with said radial lines designating the number of sides of a polygon which may be selectively formed in outline by winding a thread in selected notches and through selected perforations.

2,529,414
PROCESS OF PREPARING STABLE VINYL COATINGS ON METAL SURFACES
Edward C. Pfeffer, Jr., Troy, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application May 21, 1943,
Serial No. 487,972
4 Claims. (Cl. 117—49)

1. The process of preparing a stable continuous coating upon an article having a surface provided by a metal selected from the group consisting of iron and tin, said coating including a lacquer base containing polyvinyl halide which is decomposable by heating in contact with said metal at a temperature between about 305 degrees F. and 335 degrees F., which comprises heating the metal to at least 350° F. in an oxidizing atmosphere to provide a thin tightly adherent continuous film of anhydrous oxide of

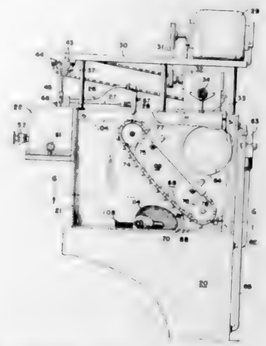
said metal, directly coating said film of anhydrous oxide with a solution in volatile solvent of said lacquer base, and baking at a temperature of 335 to 380 degrees F.

2,529,415
CONTROL APPARATUS
Hubert S. Phelan, Berkley, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 21, 1944, Serial No. 532,183
20 Claims. (Cl. 230—114)

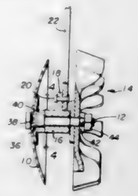
3. Apparatus for use in adjusting a spill gate for the delivery line of a supercharger or the like for controlling pressure, said apparatus comprising a rotor angularly movable manually to various positions representing predetermined values of pressure an element mounted for angular movement with respect to the rotor and for conjoint angular movement with the rotor, fluid means for adjusting the element with respect to the rotor, valve means controllable by pressure for establishing a fluid lock of the element with respect to the rotor, and means for connecting the element to the spill gate for conjoint movement with provision for overtravel of the element beyond an extreme position of the spill gate, said connecting means comprising a fixed part having a recess and a stop, a first part adapted to be connected to the spill gate and having a through opening registering with the recess upon engagement of the first part with the stop on the fixed part, a ball in the through opening of greater diameter than the thickness of the first movable part, and a second movable part connected with the element and having a recess and a projection engageable with the first part upon registration of the recess with the through opening in the first movable part.

2,529,416
APPARATUS AND PROCESS FOR PRODUCING CAPSULES
Benjamin D. Pile, Alexandria, Va., and Archie H. McCallum, Peoria, Ill.
Application July 1, 1948, Serial No. 36,496
20 Claims. (Cl. 18—5)

15. A machine for forming filled flexible capsules including, a capsule forming and filling nozzle, a cooling chamber with a liquid coolant therein; means for receiving and carrying capsules formed by the nozzle downwardly thru the liquid coolant in the cooling chamber, comprising an endless conveyor extending downwardly from a position adjacent to the surface of the liquid coolant and under the nozzle to a desired depth in the liquid coolant, and container constructed and arranged to open and close, disposed at spaced intervals along said endless conveyor; means for moving the endless conveyor and operating the capsule forming nozzle at intervals so that formed capsules will be dropped into each of the containers carried by the conveyor as it passes under the nozzle in an open condition; means for closing the containers after the capsules are deposited therein and permitting them to subsequently open; means for rotating the containers with formed capsules therein as they travel downwardly into the coolant liquid; a nozzle adjacent to said opened containers, a second nozzle adjacent to the bottom of the chamber, a collecting funnel in the path of said second nozzle, a conveyor pipe communicating with said collecting funnel and extending upward to a point above the chamber, a separator on the chamber for directing fluid from said pipe into the top of the chamber and capsules to the outside thereof, a fluid pump having an intake communicating with the lower portion of said chamber and its outlet connected with said two nozzles whereby the stream of coolant fluid from the first nozzle will eject capsules from the containers as the containers pass the same and the stream of fluid from the second nozzle will effect a flow of the coolant and capsules up thru said conveyor pipe to the separator and individual control valves for controlling the flow thru said nozzles.

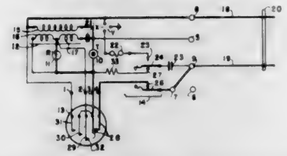


2,529,417
DISK AND VANED ROTARY HOE
Ernest F. Pitre, New Iberia, La.
Application March 17, 1947, Serial No. 735,122
2 Claims. (Cl. 97—212)



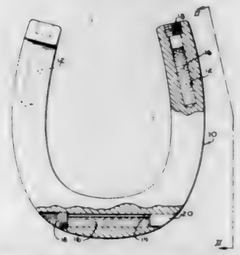
1. A vaned rotary hoe comprised of a unitary plate having a flat hub portion and radially disposed vanes, one edge of each vane being coplanar with the outside surface of said hub portion, ground-contacting edges disposed at an acute angle with the axis of the vaned hoe, spirally curved surfaces intermediate the ends thereof, and the inner ends of the vanes being spaced a distance from the shaft substantially equal to the length of said spirally curved surfaces so that a large space is preserved between the shaft and vanes to prevent clogging of the vaned hoe.

2,529,418
TELEPHONE SUBSTATION APPARATUS FOR LOCAL AND COMMON BATTERY SERVICE
Harold C. Pye, Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 25, 1947, Serial No. 757,001
7 Claims. (Cl. 179—81)



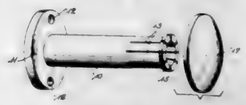
1. A telephone substation circuit adapted to be connected to a two conductor telephone line for use in either central battery service or local battery service with magneto generator signalling, comprising, in combination, a transmitter, an induction coil including a plurality of coupled windings, a condenser, and a plurality of connecting terminals; said line connected to a first and second terminal of said plurality of terminals; one of said windings of said induction coil, said transmitter and said condenser connected in series between said first terminal and said second terminal; a third one of said terminals connected to the junction of said one induction coil winding and said transmitter; a fourth one of said terminals connected between said second terminal and the junction of said transmitter and said condenser; an energy supply and a choke coil connected in series, a magneto generator and said substation circuit convertible to local battery service through connection of said energy supply and choke coil across said transmitter to cause direct current from said source to flow through said transmitter and choke alone by disconnecting said fourth terminal from said second terminal and connecting said fourth terminal to a fifth one of said terminals, and then connecting said supply and choke to said third and fifth terminals and said generator to said first and second terminals.

2,529,419
HORSESHOE
Orpheus F. Quartullo, South Euclid, Ohio
Application October 6, 1947, Serial No. 778,209
1 Claim. (Cl. 168—25)



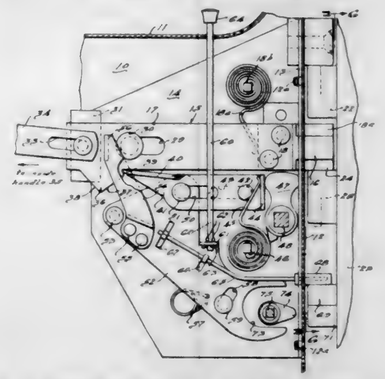
A horseshoe having a cavity extending into each heel end of the shoe and running lengthwise of the heel end of the shoe and a cavity extending from side to side at the toe end of the shoe, a plug permanently closing one end of the last-named cavity, removable weighting means at least partially filling selected cavities, and means removably closing at least the cavities having the weighting means therein.

2,529,420
ROLL HOLDER
Amos H. Ramquist, Vashon, Wash.
Application October 1, 1946, Serial No. 700,552
5 Claims. (Cl. 242—55.2)



3. A roll holder comprising a roll receiving cylindrical portion having permanently attached at one end thereof means adapted to restrain a roll against axial movement off of the cylindrical portion at that end, said means being adapted for attachment to a vertical surface to constitute a cantilever support for said cylindrical portion and a roll supported thereby, a rim at the other end thereof, a cap for restraining a roll against axial movement off of said cylindrical portion, said cap having an internal socket, the mouth of which is defined by an internal annular rim of resilient material which defines in part an internal groove for the quick detachable reception of the rim of said cylindrical portion.

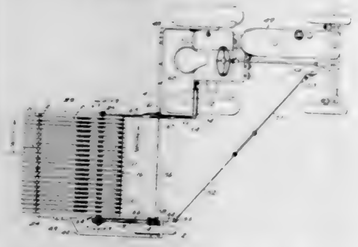
2,529,421
LOCK
Gerald E. Redenbaugh, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 25, 1945, Serial No. 606,894
11 Claims. (Cl. 292—169)



7. A control mechanism for a retractible door bolt adapted for use with a door pillar keeper permitting closing of the door without retraction of the bolt including a handle operated rollback, means interconnecting the rollback and bolt including an element connectable with and disconnectable from the bolt, plate means shiftably supporting said element and adapted to move it into connected and disconnected positions with respect to the bolt, and means coacting with the plate means operable independently of said bolt and actuatably engageable upon closing of the door with means on the door pillar for shifting said plate means and said element for effecting

connection between said element and bolt upon door closing movement while the bolt remains in extended position.

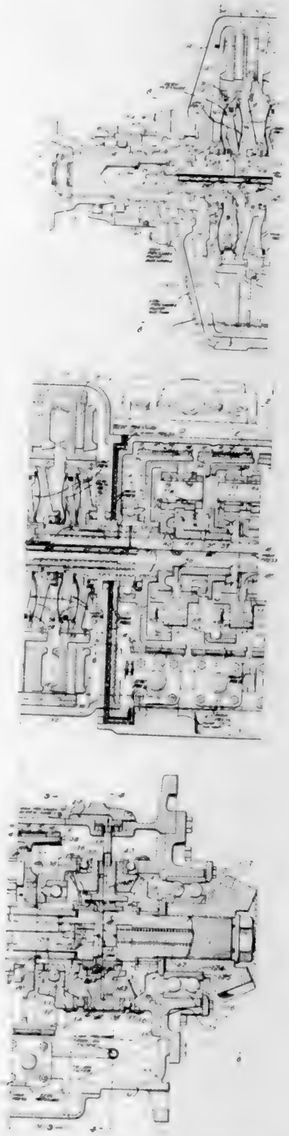
2,529,422
SWATH LIFTER FOR WINDROWED GRAIN
Ole Sampson, Osceola, Mo.
Application March 11, 1948, Serial No. 14,343
1 Claim. (Cl. 56—372)



In a swath turner attachment the combination which comprises a pair of spaced longitudinally extended inner and outer side beams connected at the rear by a cross bar, a transversely disposed draw bar brace extended outwardly from the forward end of the inner side beam, a draw bar extended forwardly from the outer end of said draw bar brace, means attaching the forward end of the said draw bar to a tractor, a diagonally disposed brace extended forwardly and inwardly from the forward end of the said outer side beam, means attaching the forward end of the said diagonally disposed brace to a tractor, a traction wheel journaled on the forward end of said outer side beam, a ratchet carried by the forward end of the said inner side beam, a hand lever having a pawl thereon mounted on the forward end of the inner side beam and positioned to coact with the ratchet to adjust the elevation of the said side beam, a transversely disposed shaft journaled on the said side beam and positioned intermediate of the ends thereof, pulleys mounted on the said traction wheel and transversely disposed shafts, respectively, a plurality of spaced semi-circular slats the upper ends of which extend rearwardly and slope downwardly to rest upon the upper edge of the said transversely disposed cross bar connecting the rear ends of the said side beams, the lower ends of said slats extended rearwardly and sloping upwardly to the upper edge of said cross bar, drum heads carried by the said transversely disposed shaft and positioned in the ends of the said open slats, spaced longitudinally disposed rods positioned in said slats and carried by the said drum heads, tines resiliently mounted on said rods and positioned to extend through the spaces between the said slats, and a crossed belt trained over the pulleys on the said traction wheel and transverse shafts respectively whereby the tines are rotated in a counterclockwise direction for picking up hay and grain and feeding it rearwardly over the upper ends of said slats.

2,529,423
TRANSMISSION MECHANISM
Carl Einar Schou, Seattle, Wash., assignor to Pacific Car and Foundry Company, Renton, Wash.
Application January 14, 1948, Serial No. 2,293
21 Claims. (Cl. 74—761)

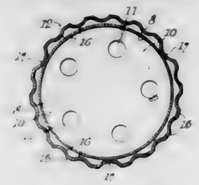
1. In a power transmitting assembly, an input shaft, a pump driven by said input shaft, a series of concentric shafts each driven through a fluid actuated pre-selective clutch from said input shaft, a plurality of planetary assemblies axially aligned with respect to the input shaft, said planetary assemblies each including a spur gear, at least one sun gear, a planet unit, a ring gear



and a brake, said planet units including in part duplex pinion structures and said duplex pinions being adapted to mesh with the sun gear and ring gear of its own planetary assembly and with said spur gear, which is fastened to said brake, one element of each planetary assembly being

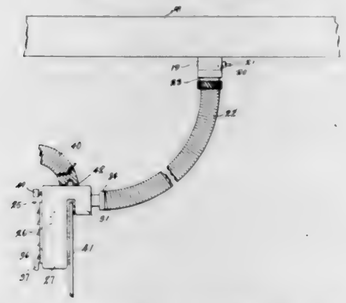
directly driven by one of said concentric shafts, means for actuating said braking means simultaneously with the operation of a pre-selected clutch for varying the gear ratio to the output shaft, a reversing gear unit interposed between said output shaft and said concentric shafts, and means for actuating said reversing gear unit simultaneously with the operation of a predetermined clutch and planetary assembly, by fluid pressure from said pump.

2,529,424
PUSH ON CLOSURE CAP
Joseph W. Seigh, Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 13, 1946, Serial No. 676,517
4 Claims. (Cl. 222—562)



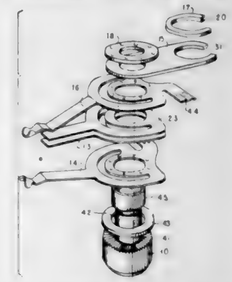
1. In a dispensing container, a dispensing neck having a smooth external closure cap receiving surface and a top portion equipped with at least one dispensing aperture, and a closure cap having a closure body portion for closing over the dispensing aperture, and a depending skirt shaped to fit over the dispensing neck and uprightly corrugated with at least three spaced corrugations projecting inwardly far enough to frictionally grip the external surface of the dispensing neck, and at least three other corrugations intervening the first named corrugations and spaced from said surface serving to provide inherent yielding quality in the skirt without readily perceptible distortion.

2,529,425
SYSTEM OF FURNISHING AIR CONDITIONING, COMMUNICATION, AND ENTERTAINMENT TO PARKED VEHICLES
Thomas D. Sharp, New Orleans, La.
Application December 28, 1945, Serial No. 637,698
2 Claims. (Cl. 98—2)



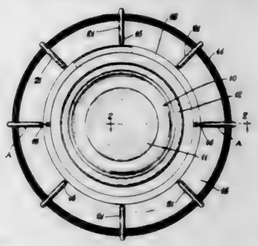
1. An air conditioning apparatus for use with an automobile having a window frame and vertically movable window therein comprising a vertical hollow housing to be positioned upon the inner face of the window and having a lateral hollow extension in communication with said housing at its top which projects outwardly and terminates beyond the outer face of the window, the lateral extension having a recess in its bottom to receive the top of the window, the top of the housing being held against the top of the window frame by raising the window, the inner face of the housing having an opening for the discharge of air therethrough, means in said housing for supporting a loud speaker adjacent said opening, means in said opening for controlling the discharge of air, and a flexible hose connected with the outer end of the lateral extension for introducing conditioned air into the latter.

2,529,426
WIPER CORD FASTENER FOR STEPPING SWITCHES
Bertram H. Shoopman, Baytown, Tex., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 1, 1947, Serial No. 783,566
3 Claims. (Cl. 179—27.52)



1. In a wiper assembly for a switch shaft for attaching a cord to each wiper in said assembly, a cord guide fixedly secured in said assembly, a hole in said guide for retaining the wiper cords, an opening through said guide to said hole, a guide ring, an opening in said ring, said guide ring rotatably mounted in said hole and manually rotatable to align said openings to permit the wiper cords to be passed through said aligned openings into said hole after which said ring may be manually rotated to unalign said openings thereby completely closing said hole to retain the wiper cords therein without removing any portion of said assembly.

2,529,427
ANTISKID DEVICE FOR AUTOMOBILE TIRES
Claude Q. Snedeker, Canton, Ohio
Application January 19, 1950, Serial No. 139,400
11 Claims. (Cl. 152—213)



1. An anti-skid device for an automobile tire, comprising a ring of smaller diameter than the

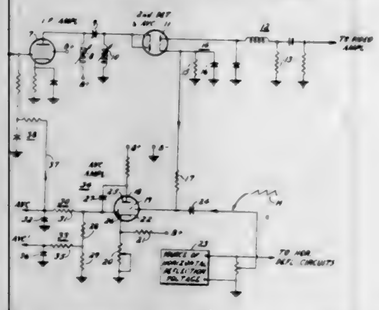
tire and adapted to be concentrically located on the outer side of the tire, a plurality of radially disposed flexible tubes each connected at one end to the ring, said flexible tubes being disposed over the tread of the tire toward the inner side thereof, a cable slidably connected to the free ends of all of said flexible tubes, the ends of the cable passing through one of the flexible tubes to the ring, and means upon the ring for tightening said cable to draw the flexible tubes around the tread of the tire.

2,529,428

AUTOMATIC GAIN CONTROL SYSTEM

Sterling C. Spielman, Huntingdon Valley, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application March 1, 1947, Serial No. 731,757
7 Claims. (Cl. 179—171)



4. In a television receiver having, inter alia, a vacuum tube amplifier operating at a carrier frequency and a source of voltage of picture line frequency whose amplitude is substantially constant independently of automatic gain control: an amplified automatic-gain-control system comprising, in combination, means responsive to a received carrier wave for developing a unidirectional voltage whose magnitude is proportional to the amplitude of said carrier wave, an A.-C. amplifier stage, means for applying said voltage of line frequency to an input circuit of said A.-C. amplifier stage, connections between said carrier-wave responsive means and said A.-C. amplifier stage for controlling the gain of said stage in accordance with the magnitude of said unidirectional voltage, means coupled to the output circuit of said A.-C. amplifier stage and responsive to the A.-C. component of output thereof for developing a unidirectional voltage whose magnitude is proportional to the amplified line-frequency voltage in said output circuit, and means for applying said last-named unidirectional voltage to a gain-control electrode of said vacuum tube amplifier.

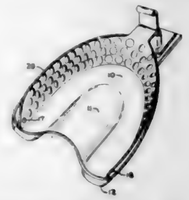
2,529,429

DENTAL APPARATUS

Harry Spiro, Chicago, Ill.

Application April 18, 1949, Serial No. 88,169
11 Claims. (Cl. 32—17)

1. A dental tray assembly comprising a tray proper shaped to hold impression-forming compound for oral prosthetic work, said tray proper having ridge and flange portions, and an auxiliary member having the same general shape as the flange proper but having substantially no ridge portion, said auxiliary member being dimensioned to telescope said flange and being adapted to be forced into telescoping relation with the tray proper during the taking of an impression whereby the impression-forming compound is



subject to pressure generated during the telescoping action and flows along the impression surface.

2,529,430

TUNING FORK

Austin N. Stanton, Garland, Tex.

Application January 28, 1950, Serial No. 141,109
3 Claims. (Cl. 84—457)

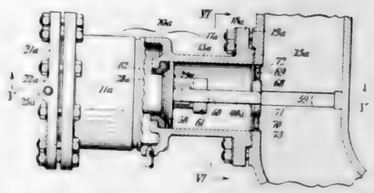
1. A tuning fork having a central bight portion and two tines integral with said bight portion symmetrically positioned about a longitudinal axis, said tuning fork having a longitudinal component of vibrational motion parallel to said longitudinal axis; and a pair of laterally resilient supporting members fastened to said fork on opposite sides of said bight portion at points of substantially minimum value of the longitudinal component of vibrational motion of said tuning fork, said members lying parallel to said longitudinal axis.

2,529,431

POWER-OPERATED VALVE

Carleton K. Steins, Merion, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 13, 1945, Serial No. 622,203
2 Claims. (Cl. 137—139)



1. A power operated valve of the character described comprising a housing with two serially-

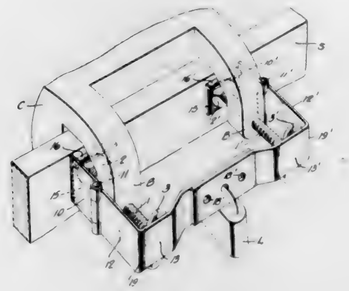
arranged rigidly-united cylinders of large and small diameter, the large cylinder being closed and the small cylinder being open at its outer end and registered with a lateral orifice in a conduit; a separate closure element for regulating flow of pressure fluid through the conduit; a piston head in the large cylinder; a sleeve slidable on a diametrically reduced axial extension of the piston head, said sleeve extending into and having a piston head in the small cylinder; means within the small cylinder operatively connecting the closure element to the head end of the sleeve; and means whereby pressure fluid can be admitted to the outer end of the larger cylinder for action upon the piston head therein to bring about the movement of the closure element to closed position.

2,529,432

LOCKING MEANS FOR OUTBOARD MOTORS

Alfred S. Tenner, Meadville, Pa.

Application July 15, 1948, Serial No. 38,936
8 Claims. (Cl. 70—232)



1. A lock for the clamps of an outboard motor adapted to be mounted on the stern board of a boat, said clamps embodying a pair of spaced clamping screws with clamping pads at the inner ends thereof for engagement with the stern board and operating handles at the outer ends thereof, comprising supporting means secured to the stern board providing spaced surfaces adapted to be engaged by said clamping pads and spaced blocking means hingedly mounted on said supporting means around vertical axes to selectively bring said blocking means adjacent to said handles to prevent the rotation thereof or remote from said handles to present no hindrance to the rotational movement thereof, and means for locking together said spaced blocking means in said first-mentioned position.

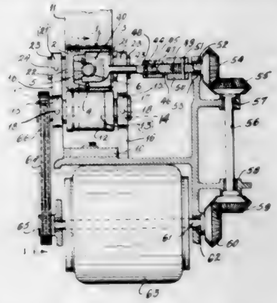
2,529,433

MACHINE FOR FINISHING PISTONS

William M. Venner, Clayton, and Percy L. Bowser, Jr., University City, Mo.

Application January 2, 1947, Serial No. 719,843
3 Claims. (Cl. 51—103)

1. A piston finishing machine, comprising, finishing means, a frame member movable relatively to said finishing means, a rotary support journaled on said frame member at a fixed distance from said finishing means, said support having a cross-sectional shape complementary to that to which the piston is to be finished, driving means connectible with the piston to rotate the same and axially adjustable to position the piston on said support, and means for rotating said support in constant relation to the rotation of said driving means.



2,529,434

SHREDDED METAL HOLDER

Arnold W. Walker, Holder, Fla.

Application January 13, 1948, Serial No. 2,009
1 Claim. (Cl. 15—209)

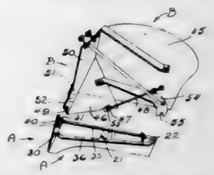
A holder of the class described, comprising an inverted U-form body made of a single strip of spring metal having the ends thereof bent to form oppositely disposed right angularly extending flanges, inwardly directed material engaging prongs projecting from the undersurface of the flanges, an inwardly directed latch projection formed integral with said body in one side thereof, a detent on said latch projection and means in the opposite side of the body adapted to receive the latch and coact with the detent to retain the body in constricted position.

2,529,435

PLOWSHARE

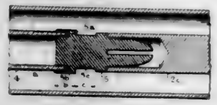
Fred Warholoski, Columbus, Nebr.

Application December 11, 1946, Serial No. 715,501
3 Claims. (Cl. 97—125)



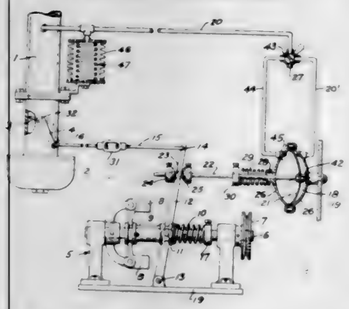
3. In a plowshare for association with a plow body having a plowshare knife portion-contacting face, said plowshare comprising a body portion and a knife portion, said knife portion extending outwardly of the planes of opposite faces of said body portion, said knife portion having a pair of ribs projecting from one face thereof disposed to one side of said planes, said pair of ribs being constructed and arranged to extend over and in face contact with said knife portion-contacting face.

2,529,436
METAL FILM ATTENUATOR
Ernst Weber, Mount Vernon, and John W. E. Griemsmann, Bellaire, N. Y., assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York
Application June 14, 1944, Serial No. 540,347
6 Claims. (Cl. 178—44)



1. An attenuator assembly for use in a coaxial cable comprising, in combination, a cylindrical housing having an inside diameter corresponding to that of the tubular conductor of said cable, detachable coupling means for coupling each end of said housing with adjacent sections of said cable, a quarter-wave coaxial stub provided on said housing near one end thereof, a short section of center conductor supported in one end of said housing by said stub in a position to engage the center conductor of one section of said cable, an attenuator unit positioned in the other end of said housing and being supported by said section of central conductor by detachable coupling means, the outer end of said attenuator unit being positioned to engage the center conductor in the other section of said cable.

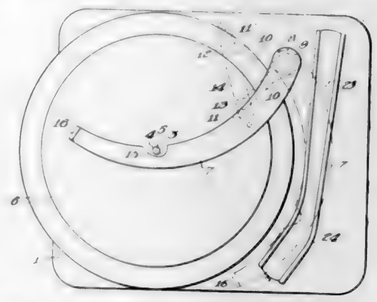
2,529,437
GOVERNOR CONTROL FOR INTERNAL-COMBUSTION ENGINES
George S. Weinberger, San Francisco, Calif.
Application March 21, 1944, Serial No. 527,427
4 Claims. (Cl. 123—103)



1. In an internal combustion engine controlled by a governor operating on the engine fuel supply means, means responsive to the varying pressure of the gases after passing into the engine cylinders operatively associated with the governor mechanism in a manner to modify the effect of said governor on the fuel supply means.

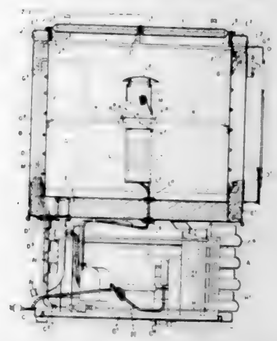
2,529,438
AUTOMATIC MAGAZINE PHONOGRAPH
Erik Wennerbo, Motala, Sweden, assignor to Industriaktiebolaget Luxor, Motala, Sweden, a corporation of Sweden
Application May 14, 1945, Serial No. 593,691
In Sweden May 22, 1944
2 Claims. (Cl. 274—10)

1. In a magazine phonograph, a base plate, a turntable rotatably mounted on said base plate, a stationary post extending upwardly from the centre of said turntable and provided with an offset upper portion for forming a shoulder adapted to support a pile of records to be played from which the records may be released so as to descend on to said turntable by being displaced laterally, a shaft extending substantially perpendicularly to the plane of said pile of records and mounted for rotational and axial movement on said base plate adjacent said turntable, an arm



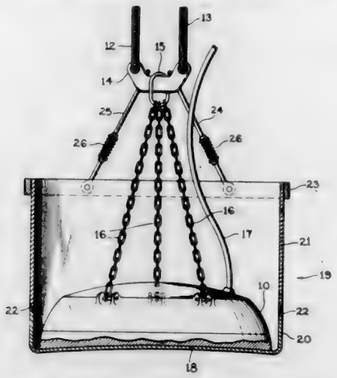
secured to the upper end of said shaft and adapted to bear against the upper side of said pile for steadying the same, another arm also secured to said shaft, and a cam member adapted to coact with the last-mentioned arm, the cam member being so shaped as to cause the shaft and associated parts to be raised when the first-mentioned arm is swung away from its pile steadying position and to be lowered when said arm is swung in the opposite direction.

2,529,439
BOTTLE COOLER
Harland W. Whitmore, Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application June 28, 1948, Serial No. 35,598
10 Claims. (Cl. 62—102)



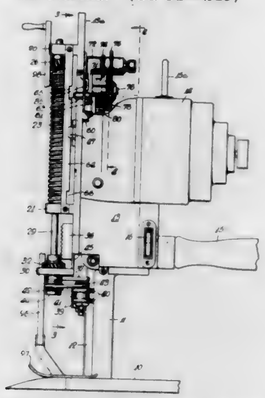
1. In a refrigerator a top opening cylindrical cabinet, a plurality of shelves together extending across substantially the entire area of and dividing the space within said cabinet into upper and lower storage compartments, said shelves including a narrow central stationary shelf extending diametrically across the cabinet, and a pair of substantially semi-circular shelves on opposite sides of said stationary shelf adapted to swing upward to a position above and over the latter within the space of the upper compartment.

2,529,440
SHIELD FOR ELECTROMAGNETS
Ralph F. Willis, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application June 3, 1948, Serial No. 30,887
2 Claims. (Cl. 294—65.5)



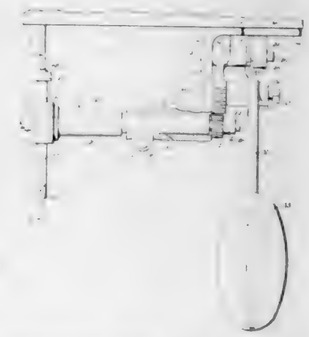
1. A shield for protecting electromagnets used in shallow water comprising a cylindrical open top container of material having low residual magnetism, said container being adapted to receive freely an electromagnet, the configuration of the bottom of the container conforming to that of the bottom of the magnet, slings carried by the upper portion of the container adapted to suspend the container from a magnet suspending means and tension springs in said slings for drawing the bottom of the container into engagement with the magnet.

2,529,441
CLOTH-CUTTING MACHINE
Martin Zawistowski, Huntington Station, N. Y.
Application March 19, 1948, Serial No. 15,768
21 Claims. (Cl. 51—249)



1. In a cloth cutting machine of the reciprocating knife type, a pair of vertically disposed parallel rotatable screws, a motor for simultaneously rotating said screws, shafts for rotating said sharpening elements, said shafts being concentric with, keyed to, and longitudinally movable with respect to said screws, a vertically movable member, knife sharpening elements carried by said member, a member carried by and transversely movable on said first mentioned member for operative engagement with one of said screws to move said sharpening elements downwardly along the knife, and operatively engageable with said other screw for moving said sharpening elements upwardly along the knife.

2,529,442
KNEE OPERATED SHIFTING DEVICE
William August Andres, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 4, 1949, Serial No. 108,537
8 Claims. (Cl. 112—237)

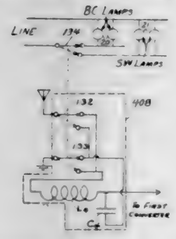


7. A knee-shift device for operating a sewing machine presser-foot lifter comprising a supporting bracket having a depending arm, a boss carried by said arm and having a socket formed therein; a bearing member formed with a longitudinal bore and a transverse slot, and adapted to enter said socket for selective lengthwise and angular positioning therein; bearing member clamping means associated with said boss; a shaft rotatably journaled in said longitudinal bore, a pinion carried by the shaft; a rack slidably journaled in said transverse slot and meshing with said pinion; and means for imparting turning movements to the shaft, including a second pinion carried by said shaft; a gear segment pivotally supported on said bracket and meshing with said second pinion, and a manually actuated lever carried by said gear segment.

2,529,443
MULTIBAND SUPERHETERODYNE RADIO RECEIVER HAVING A PUSH-BUTTON STATION SELECTOR
Henry M. Bach, Woodmere, N. Y., assignor to Premier Crystal Laboratories, Incorporated, New York, N. Y.
Application October 22, 1945, Serial No. 623,680
2 Claims. (Cl. 250—20)

1. Means for tuning a radio receiver comprising an inductance, a capacitance, a double-pole double-throw switch, the first pole of said switch having first and second contacts associated therewith and the second pole of the switch having third and fourth contacts associated therewith, the switch being arranged so that in a first position thereof the poles respectively engage the first and third contacts and in a second position thereof the poles respectively engage the second and fourth contacts, the inductance having one terminal thereof connected to said first and

fourth contacts, the capacitance having one terminal thereof connected to the second and third contacts, the remaining terminals of the inductance and capacitance being connected together and defining an output terminal, whereby in the first position of said switch the inductance is connected between said first pole and said output terminal, providing a low-pass arrangement and in the second position of said switch the capacitance is connected between said first pole and said output terminal, providing a high pass arrangement, so that in the first position the arrangement excludes frequencies above a predetermined value and in the second position the arrangement excludes frequencies below said predetermined value, a first variably tuned oscillator, means for combining the output of said first oscillator with radio frequency energy at the said output terminal, a second variably tuned oscillator, and means for combining the output of said second oscillator with the resultant frequency derived from combining the output of said first oscillator and the energy at said output terminal.



2,529,444

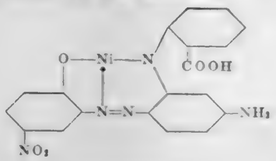
METALIZED ORTHO-HYDROXY, ORTHO AMINO MONOAZO DYESTUFFS

Heinrich H. Bestehorn, Easton, Pa., and Jack F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 3, 1947, Serial No. 789,557

2 Claims. (Cl. 260—149)

2. The nickel ortho-hydroxy, ortho-amino monoazo dyestuff of the formula:



2,529,445

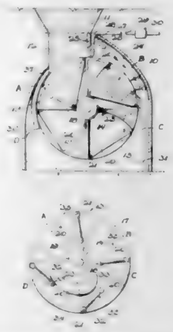
MATERIAL FEEDING DEVICE

Paul L. Betz, Baltimore, Md., assignor to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md., a corporation of Maryland

Application September 24, 1946, Serial No. 698,964

13 Claims. (Cl. 222—217)

1. In a material feeding device of the type including a casing providing inlet and outlet passages and a rotatable drum mounted in said casing between said passages, said drum including a plurality of buckets for receiving material from said inlet passage, each of said buckets including at least one movable wall pivoted at one edge on said drum and having its edge opposite said pivoted edge unconnected and free to swing within said bucket, whereby said wall is movable from a position in which the bucket has maximum capacity to a position of minimum capacity for discharging material from said bucket, and means for moving each of said movable walls to its discharging position when the corresponding bucket is in communication with the outlet passage.



2,529,446

GUM GUAIAC TREATMENT

Howard C. Black, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 2, 1948, Serial No. 36,801

12 Claims. (Cl. 99—163)

1. The method of treating gum guaiac to prevent color formation when said gum guaiac is employed to stabilize fatty material to be used as a shortening in the preparation of baked products, comprising: treating said gum guaiac with hydrogen peroxide at a temperature of about 140° to 170° F. whereby its potential color-forming characteristic is destroyed.

2,529,447

CONTROL DEVICE FOR CABLE CONTROL MECHANISMS

Gaston Bodinaux, Liège, and Armand Malchair, Herstal, Belgium, assignors to Charles Somville, Brussels, Belgium

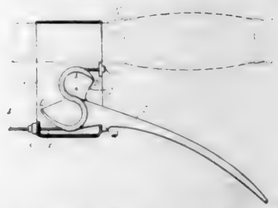
Application March 6, 1947, Serial No. 732,790

In Belgium February 28, 1946

Section 1, Public Law 690, August 8, 1946

Patent expires February 28, 1966

8 Claims. (Cl. 74—489)



1. In a control device for causing longitudinal displacement of a cable, a manipulating lever, a support frame, said lever comprising a head freely lodged in said frame and a handle projecting therefrom, said lever head having a substantially S-shaped, cable-receiving groove therein, and the cable to be displaced being arranged around the lever head in said groove and anchored at one end to said frame, whereby the head of the lever is bound and restrained in the frame by said cable and the free length of the latter is longitudinally displaced by lever manipulation.

2,529,448

PURIFICATION OF PHTHALIC ANHYDRIDE

Courtney Conover, Silver Spring, Md., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 18, 1949, Serial No. 71,549

4 Claims. (Cl. 202—57)

1. A method of purifying crude phthalic anhydride which comprises heating a mixture of said crude phthalic anhydride in the presence of sulfamic acid at a temperature essentially above 270° C. for a period of time sufficient to permit separation of phthalic anhydride from the impurities therein by distillation; and then distilling phthalic anhydride therefrom in purified form.

2,529,449

COMPOSITION COMPRISING POLYMERIZED ACRYLONITRILE AND SOLVENT THEREFOR

George E. Ham, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 27, 1948, Serial No. 11,869

7 Claims. (Cl. 260—30.4)

7. A composition suitable for the preparation of fibers by extrusion, which comprises a completely miscible mixture of from 5 to 20 percent by weight of a polymer of at least 70 percent of acrylonitrile and up to 30 percent of another compatible olefinic monomer and from 80 to 95 percent of a solvent consisting of 30 to 70 percent by weight of dimethyl formamide and 70 to 30 percent of a cyclic ether of the group consisting of five member ring compounds and six member ring compounds, in which compounds the said members are selected from the group of radicals consisting of —CH_2—, —$CHCH_3$—, —NH—, —CHCl—, —S—, and —O—, at least three of said members being hydrocarbon radicals and at least one member being an oxygen atom.

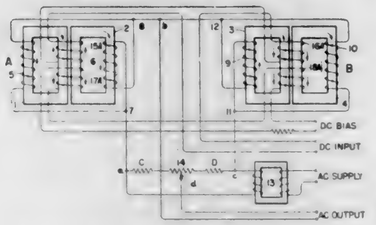
2,529,450

MEASURING AND CONTROLLING SYSTEM

Anthony J. Hornfeck, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application August 3, 1942, Serial No. 453,486

5 Claims. (Cl. 318—29)



1. A reactor converter for converting a single low-level direct current signal of reversing polarity into an alternating current signal of reversing phase, comprising in combination, an alternating current bridge having two adjacent fixed resistance legs and two adjacent winding legs, a source of alternating current for a diagonal of said bridge extending between the junctions of unlike legs, a magnetic core structure for each of said winding legs, control windings associated with said cores and traversed by said signal current, a reversible motor having a pair of field windings, a pair of thermionic tubes controlling the impedance in each field winding circuit, said tubes being selectively responsive to the output from the other diagonal of the bridge whereby the motor direction depends upon the phase of the current therefrom.

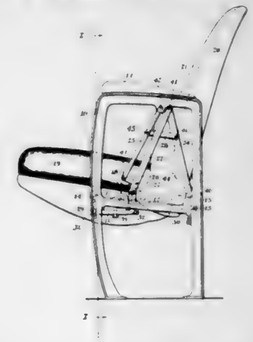
2,529,451

RETRACTING TYPE THEATER CHAIR

Alfred C. Hoven, Walter E. Nordmark, and William S. Lindberg, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey

Application August 11, 1947, Serial No. 767,992

3 Claims. (Cl. 155—116)



1. In a chair, a frame having guide rods at opposite sides thereof, seat carriers having sleeves on their forward ends mounted on the guide rods for forward and rearward movement thereon, a chair seat mounted on the carriers, a chair back pivotally connected at its opposite sides to the rearward ends of the seat carriers, back-supporting links having their lower ends pivotally connected to the frame and their upper ends pivotally connected to opposite sides of the chair back, control links pivotally depending from the upper portions of the frame forwardly of the back-supporting links, connecting links associating the lower ends of the control links with the back and other connecting links associating the medial portions of the control links with the medial portions of the back-supporting links whereby the pivotal connections of the back to the seat carriers are caused to move in straight paths parallel to the guide rods, and stop means for limiting the forward and rearward movements of the carriers.

2,529,452

ADJUSTABLE BUCKLE HOLDER

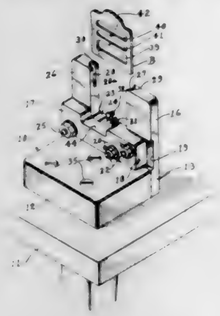
Edmund D. Janes and Michael J. Carpinella, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application October 11, 1947, Serial No. 779,250

9 Claims. (Cl. 223—49)

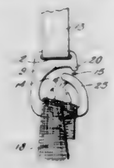
1. A device of the class described comprising a base and an integral arm extending upwardly therefrom, an adjustable block supported upon the upper surface of said base and fixed to said

arm and adjustable laterally relative thereto, means for securing one end of said block in predetermined position to said arm, and another



arm secured to the opposite end of said block, said arms having means in their adjacent edges for detachably receiving a buckle member therebetween.

2,529,453
CLASP
Arthur A. Johnson and Herbert G. Lehmann, Bridgeport, Conn., assignors to The Red Star Company, Bridgeport, Conn., a corporation of Connecticut
Application May 1, 1948, Serial No. 24,485
3 Claims. (Cl. 24—186)



1. A device of the character described comprising a plate having an upper mounting aperture, a large tab-receiving aperture defined by the top of the plate, side strips and a bottom bar, and tab-impaling barbs on the bottom bar lying in said aperture, one of said side strips having a slot forming a passage for the tab, said slot being intermediate the ends of said side strip so as to form upper and lower lugs preventing the inadvertent removal of the tab from the aperture, the slot being near the upper portion of the side strip whereby the lower lug is longer than the upper lug, and the lower lug being curved in towards the center of the aperture.

2,529,454
FOLDABLE BOOM
John A. Marcantonio, Union, N. J., assignor to Eugene P. Reading, Inc., Roselle, N. J., a corporation of New Jersey
Application January 10, 1948, Serial No. 1,562
8 Claims. (Cl. 212—144)

1. A foldable boom comprising an inboard and an outboard section, each section comprising four longitudinally extending angle bars interconnected by diagonal cross-bars; a pair of vertically downward extending plates secured to each of the lower angle bars of one boom section; alined apertures in each pair of said plates; single vertically downward extending plates secured to each of the lower angle bars of the other boom section said single plates adapted to slide between the coacting paired plates on the first boom section; an aperture in each single

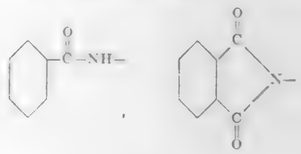
plate; a pin disposed through the apertures in each coacting set of single and paired plates; and removable means securing the two boom sections together in longitudinal boom operative position.

2,529,455
PROCESS FOR PREPARING UNSATURATED AMIDES
David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 30, 1947, Serial No. 794,816
4 Claims. (Cl. 260—326)

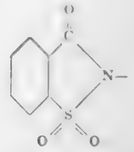
1. A method of preparing new compounds which comprises mixing a methylol derivative having the structure:

$$X—CH_2—OH$$

wherein X is a radical of the group consisting of



and

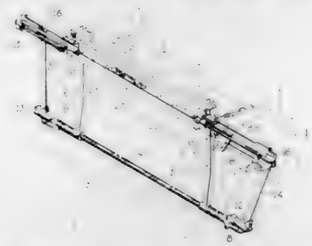


with a compound of the group consisting of acrylonitrile and methacrylonitrile in the presence of an acid catalyst having an ionization constant at least as great as that of phosphoric acid at a temperature below 40° C., and separating the resulting compound by contacting the reaction mass with water.

2,529,456
LOOM LAY AND BEAM
Edward C. Nichols, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application October 24, 1946, Serial No. 705,321
15 Claims. (Cl. 139—188)

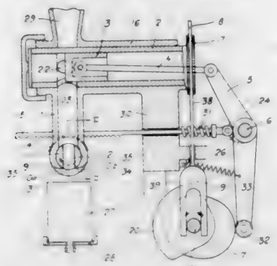
15. For a loom of the type having oscillating lay swords and a reed, a unitary, light-metal lay beam adapted to be carried by said swords and to support said reed, comprising a plurality of upwardly directed channel sections and at

least one downwardly directed channel section formed from a plurality of generally vertically



disposed members interconnected by a common, generally horizontally disposed web.

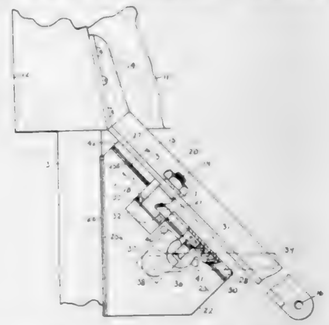
2,529,457
APPARATUS FOR DELIVERING MEASURED QUANTITIES OF MATERIAL
Johan Gunnar Nilsson, Appelviken, Sweden, assignor to Arenco Aktiebolag, Stockholm, Sweden, a Swedish joint-stock company
Application April 26, 1946, Serial No. 665,169
In Sweden April 28, 1945
3 Claims. (Cl. 222—380)



1. In an apparatus for delivering measured quantities of material, a delivery channel, means for periodically forcing the material down through said channel, a valve having a plug provided with a passage adapted to periodically constitute a downwardly directed free outlet end of said delivery channel, said valve having a housing for said plug provided with an opening having an obliquely downwardly directed cutting edge engaging said plug and being adapted to substantially coincide with one edge of said outlet end when said plug is in open position and also forming a bottom edge of an obliquely upwardly extending surface of said housing, and means for periodically opening and closing said valve plug by moving said outlet end of said passage past said cutting edge.

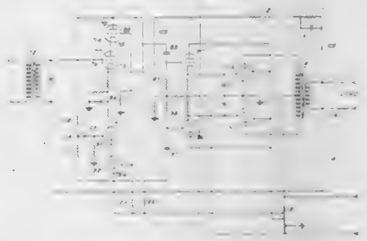
2,529,458
COLLAPSIBLE TOP STRUCTURE FOR MOTOR VEHICLES
John Hewitt Orr, Coventry, England, assignor to Carbodies Limited, Coventry, England
Application June 30, 1947, Serial No. 758,154
In Great Britain September 28, 1946
5 Claims. (Cl. 296—107)

1. A drop-head automobile body including a hoop having legs with feet supporting the front edge of the head-fabric, an arm fast with each of the legs of the hoop and pivoted upon the body whereby the head can be moved into a stowed or erected position, the main portion of each arm when the head is erected being inclined to the vertical and abutting a correspondingly inclined member fast with the body, and the legs of the hoop when the head is in the erected position being substantially vertical with their feet abutting stationary parts of the body, a compressible resilient means between the said inclined portion and member, a slidable spring-



pressed latch carried by the inclined member substantially parallel to the inclination thereof, a hook catch extending substantially at right-angles from the main portion of said arm and adapted to automatically coact with and be retained by said latch when the head is moved into the erected position, and means for withdrawing said latch from the hook catch when the head is to be stowed.

2,529,459
LOW-FREQUENCY POWER AMPLIFIER
Louis L. Pourciau and Raymond L. Garman, Pleasantville, N. Y., assignors to General Precision Laboratory, Incorporated, a corporation of New York
Application November 2, 1948, Serial No. 57,866
6 Claims. (Cl. 179—171)



5. A low frequency power amplifier comprising, a thermionic amplifier stage including first and second thermionic tube sections having their anode cathode paths connected in series, a signal input circuit connected to the input of said first thermionic tube section, a phase inversion stage including first and second thermionic tube sections having their anode cathode paths connected in series, circuit means connecting the output of said second amplifier tube section to the input of said first phase inversion tube section, a push-pull coupling circuit including a pair of thermionic tube sections having their anodes directly connected to a source of positive potential and their cathodes connected to a source of negative potential through respective ones of a pair of serially

connected resistors common to respective input and output circuits of said last mentioned tube sections, a signal circuit connecting the anode of said second amplifier tube section to the input of one of said coupling circuit tube sections, a second signal circuit connecting the anode of said second phase inversion tube section to the input of the other of said coupling circuit tube sections, a pair of power amplifier tubes connected in push-pull, direct metallic connections between the cathodes of said respective coupling circuit tube sections and respective control electrodes of said power amplifier tubes a transformer coupled to the output of said power amplifier tubes having a secondary connected to a load, a negative voltage feedback circuit and a negative current feedback circuit each being connected between said transformer secondary and the signal input circuit.

2,529,460
EMULSIONS CONTAINING RESINS
Herman J. Schneiderwirth, Jenkintown, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Original application April 30, 1949, Serial No. 90,785. Divided and this application August 10, 1950, Serial No. 178,755
5 Claims. (Cl. 252—310)

1. A thixotropic emulsion comprising an aqueous vehicle, at least one water-insoluble alkaline earth metal salt of the group consisting of phosphate, carbonate, sulfate and hydroxide, stably suspendably dispersed therein, a water-soluble citrate of an alkaline base dissolved in said aqueous vehicle in an amount sufficient but not over five percent, to produce the thixotropic character of the system, said alkaline base being a member of the group consisting of the alkali metal bases and the nitrogen bases, and at least one substance selected from the group consisting of a water-insoluble resin in an amount up to about forty percent.

2,529,461
EMULSIONS
Herman J. Schneiderwirth, Jenkintown, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application April 30, 1949, Serial No. 90,785
5 Claims. (Cl. 252—310)

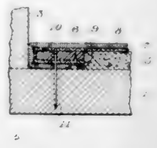
1. A thixotropic emulsion comprising an aqueous vehicle, at least one water insoluble alkaline earth metal salt of the group consisting of phosphate, carbonate, sulfate and hydroxide, stably suspendably dispersed therein, a water solubie citrate of an alkaline base dissolved in said aqueous vehicle in an amount sufficient but not over 5%, to produce the thixotropic character of the system, said alkaline base being a member of the group consisting of the alkali metal bases and the nitrogen bases, and at least one substance selected from the group consisting of an oil, and a fat, in an amount up to about 40%.

2,529,462
VENTILATOR
Lawrence P. Touchett, Fond du Lac, Wis., assignor to E. Z. Paintr Corporation, a corporation of Wisconsin
Application July 11, 1947, Serial No. 760,207
4 Claims. (Cl. 98—29)

1. A device of the character described comprising a face plate provided with an opening therein, flanges projecting from the inner edge of said opening of said face plate forming a frame, a plurality of louvres angularly disposed within said flanges, a housing, said housing formed of two vertical side walls and a bottom member inclined upwardly relative to the face

plate, means for engaging said housing at its forward end with said frame, a filtering means, and channel members formed at the top of the vertical side walls for the slidable engagement of said filtering means.

2,529,463
METHOD OF LAYING CARPETS
Thomas B. Van Belle, Philadelphia, Pa.
Application March 10, 1947, Serial No. 733,563
2 Claims. (Cl. 16—16)



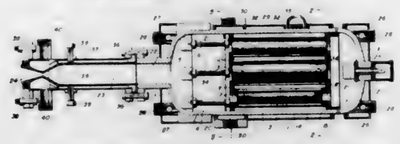
1. The method of laying carpet, which consists in first laying a sheet of lining upon a flooring, securing the edge portion of the carpet to the upper surface of a narrow reinforcing strip, inverting said strip with the attached carpet surrounding that edge of the strip directed away from the body portion of the carpet, laying said strip upon the flooring adjacent to and in the plane of said lining, driving a headless nail through the upwardly directed carpet surface, said strip, the underturned edge portion of the carpet and into the flooring, and then plucking the carpet free from said nail and returning it to the plane of the body portion of the carpet.

2,529,464
DIAZOTYPE COMPOSITION CONTAINING N - HYDROXYETHYL-m-TOLUIDINE-p-DIAZOS
William H. von Glahn, Loudonville, and Lester N. Stanley, Delmar, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 23, 1946, Serial No. 698,874
1 Claim. (Cl. 95—6)

A diazotype photographic material comprising a light-sensitive diazonium salt of the compound having the formula:

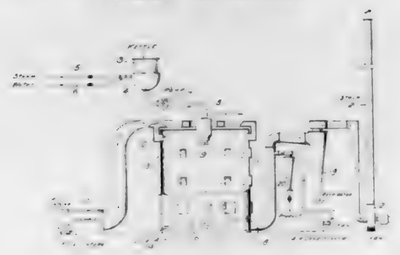
and an azo dye coupling component.

2,529,465
MULTIPLE GRAIN ROCKET FOR PROPELLING UNDERWATER TORPEDOES
Roger W. Wallace, San Marino, and William E. Colburn, Inyokern, Calif., assignors to the United States of America as represented by the Secretary of the Navy
Application August 2, 1946, Serial No. 688,121
12 Claims. (Cl. 60—35.6)



1. A rocket motor comprising: a housing; a discharge tube and nozzle leading from said housing; a propellant grain supporting frame in said housing defining therewith a forward and a rear combustion chamber, said frame including a forward bulkhead and a rear bulkhead; tubes extending between the said bulkheads, at least one of said tubes defining a passageway between said combustion chambers; and propellant grains in the remainder of said tubes.

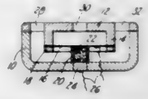
2,529,466
METHOD OF BLENDING DDT
Harry A. Weldon, Eastchester, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application February 19, 1946, Serial No. 648,784
1 Claim. (Cl. 167—42)



A method of producing blended particles of a waxy solid and a finely divided solid diluent wherein each particle of the waxy solid is coated with particles of diluent which comprises melting the waxy solid, subdividing the molten material into a cooling zone and permitting it to fall therethrough as liquid drops, simultaneously introducing a cloud of finely divided solids into the cooling zone whereby the solids adhere to the surface of the drops due to the liquidity thereof and the waxy nature of the liquid material, abstracting heat from the zone and solidifying the waxy material, and collecting the composite particles of waxy material coated with solid particles of dust in which the waxy solid is α,α-di(p-chlorophenyl)-β,β,β-trichlorethane.

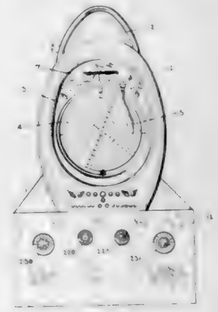
2,529,467
SECOND ORDER DIFFERENTIAL MICROPHONE
Alpha M. Wiggins, Clay Township, St. Joseph County, Ind., assignor to Electro Voice, Inc., Buchanan, Mich., a corporation of Indiana
Application August 4, 1948, Serial No. 42,369
12 Claims. (Cl. 179—135)

1. A microphone comprising a housing, a single diaphragm mounted in said housing and dividing said housing into two chambers, a generating element actuable by said diaphragm, a plurality of openings in said housing each having substantially the same acoustic impedance and substantially the same spacing from said diaphragm, at least one of said chambers being in communication with two of said openings, and at least one opening communicating with the other chamber,



the mouths of all of said openings being located in a common plane and the mouths of the first named openings being equally spaced from the mouth of the last named opening whereby said diaphragm is responsive only to the difference of the difference in the sound pressure directed by said openings to opposite surfaces of the diaphragm.

2,529,468
RADIO RANGE NAVIGATION APPARATUS FOR TRAINING AIRCRAFT PERSONNEL
Richard C. Dehmel, Short Hills, N. J.
Application July 27, 1945, Serial No. 607,333
17 Claims. (Cl. 35—10.2)

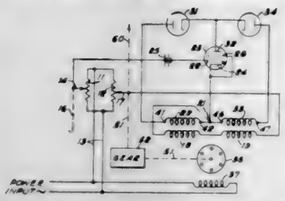


1. In aircraft training apparatus for simulating radio range signals, a plurality of radially extending arms for representing the on-course direction beams of a radio range station, means for independently adjusting said on-course arms so as to correspond to a given radio range pattern, a plurality of signal controlling contact structures positioned within each sector defined by said on-course arms, and means flexibly interconnecting said contact structures and said on-course arms for automatically positioning said contact structures in the respective sector defined by a pair of arms to correspond to the desired signal pattern when said pattern is changed by adjustment of one or both of the aforesaid pair of on-course arms.

2,529,469
SHADED POLE MOTOR WITH THYRATRON CONTROL
John W. Gray, White Plains, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application July 1, 1949, Serial No. 102,575
6 Claims. (Cl. 318—208)

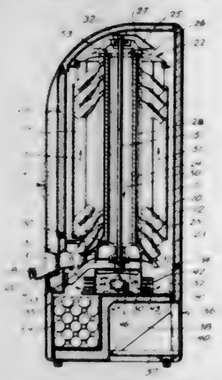
1. A control circuit comprising, means for producing an alternating current signal, a discharge tube having said signal impressed on its input, a shaded pole motor including a pair of shading

coils connected in aiding relation, a shunting circuit including a rectifier for one of said shading coils, a second shunting circuit including a second rectifier for the other of said shading coils, a circuit common to said shunting circuits



including the cathode-anode path of said discharge tube and a pair of coils in the same respective positions in the magnetic circuit as said shading coils, said pair of coils being connected in series with each other and said means for producing an alternating current signal.

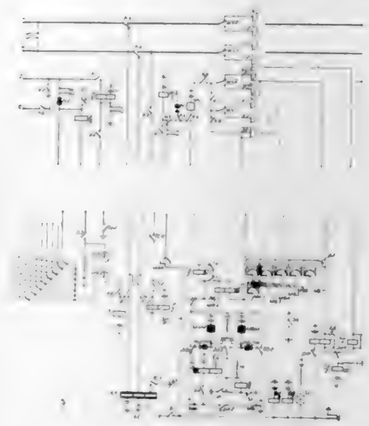
2,529,470
ARTICLE REFRIGERATION
Herman K. Johnson, Grand Haven, Mich., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1945, Serial No. 574,764
6 Claims. (Cl. 62—102)



1. An article dispensing cabinet comprising an insulated housing, a drum mounted for rotation therein having a conduit down through the center thereof, means for supporting rows of articles on the drum for discharge at one end of the drum, means for drawing air from the opposite end of the drum through said conduit, and means for refrigerating said air and moving the air over the outside of the drum from said other end to the first end, said moving means being located upstream of said refrigerating means.

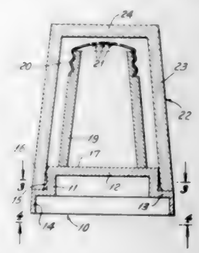
2,529,471
MARKING ARRANGEMENT FOR FINAL SELECTOR SWITCHES
Douglas Percy Long, Chislehurst, England, assignor to Siemens Brothers & Co. Limited, London, England, a British company
Application April 25, 1946, Serial No. 664,963
In Great Britain May 4, 1945
6 Claims. (Cl. 179—18)

1. In a telephone system, a final selector switch including a plurality of wiper sets and sets of contacts, subscribers' lines accessible thereto, said lines divided into four groups, each group appearing in a different set of contacts in said switch accessible to one wiper set, marking devices operated responsive to received series of impulses representing digits of a subscriber's



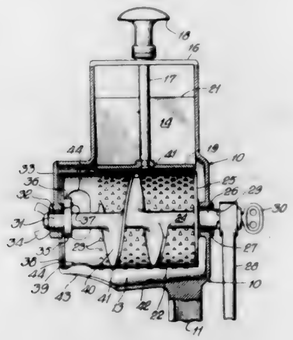
number for marking a corresponding line in each of said groups, means for determining which of the marked lines will be seized, said means responsive to a signal received independent of said impulses and to one of said series of impulses.

2,529,472
DISPENSER FOR SALT OR THE LIKE
Edward Lappé, Jr., Scarsdale, N. Y.; Anne M. Lappé executrix of said Edward Lappé, Jr., deceased
Application January 21, 1948, Serial No. 3,621
6 Claims. (Cl. 222—183)



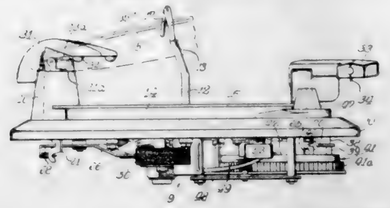
3. In a dispenser for salt or the like, a cylindrical base, a plurality of angularly spaced ribs integral with the base, at least the major portion of each rib projecting outwardly of the peripheral surface of the base, the outer surface of each rib constituting a portion of the surface of revolution of a right circular cone, an upstanding tubular wall mounted on the base and positioned inwardly of the upper edge thereof, a removable imperforate cap surrounding and spaced from the tubular wall, said cap having a frustro-conical inner surface frictionally engaging the outer surface of each rib and forming substantially continuous and line contact with the upper edge of the base.

2,529,473
HOLLOW DRUM GRATER WITH FEED SCREW REINFORCING MEMBER
Joseph E. Rustici, Stamford, Conn.
Application June 22, 1946, Serial No. 678,620
4 Claims. (Cl. 146—92)



1. In a device of the class described, a casing, a thin cylindrical sheet metal grater having a series of punched grater portions on its outer periphery, means whereby said cylindrical grater rotates in a predetermined axis relatively to said casing, a feed screw having a diameter equal to the internal diameter of said cylindrical grater supported within said cylindrical grater and having a continuous outer rib-like surface applied against the inner surface of said grater for reinforcing the grater against pressure applied thereto while the continuous surface of said screw feeds the grated product toward one end of said cylindrical grater, means whereby said feed screw and cylindrical grater are rotated together in said predetermined axis, said feed screw terminating within said cylindrical grater in spaced relation to said one end thereof, and said one end having a relatively large opening to receive the grated product as fed by said feed screw for movement outwardly of said cylindrical grater.

2,529,474
AUTOMATIC PHONOGRAPH
Sven A. Stolberg, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 8, 1947, Serial No. 727,363
5 Claims. (Cl. 274—10)



1. In an automatic phonograph including a record changing mechanism, a rotatable turntable, means for supporting a stack of unplayed records above said turntable, a rotatable cam including a pin mounted thereon, driving means for said cam and said turntable, means for rendering said driving means ineffective to operate said cam at the end of said record changing cycle, record feeding means including a rock arm, a lever connected to said rock arm engageable by said pin during a record changing cycle in response to a predetermined rotation of said cam to cause the lowermost record of said stack to move into playing position on said turntable, a movable member disposed in an inoperative position as long as one or more records are disposed in said stack and movable to a functioning position following movement of the last remaining record of said stack onto said turntable, a rod disposed adjacent said rock arm having a hook-shaped portion adapted to engage said rock arm in response to the movement of said member to said functioning position, pivotal means connected to said rod and movable to an interfering position relative to said pin in response to movement of said rock arm following movement of said member to said functioning position, means for rendering said driving means ineffective to drive said cam or said turntable, and means responsive to continued movement of said cam following movement of said pivotal means to said interfering position for actuating said last-mentioned means.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

507,903. **FIBRIN PRODUCTS AND METHODS FOR PREPARING THE SAME.** John D. Ferry, Woods Hole, Mass., and Peter R. Morrison, Washington, D. C., assignors to the United States of America as represented by the Secretary of War and his successors in office. Filed Oct. 27, 1943. Published Nov. 7, 1950. Class 260—112. No drawing. 13 pages of specification.

This application relates to fibrin products and to methods for preparing the same, the fibrin which constitutes the base of the products being derived from fibrinogen which is present in solution in the plasma of blood. Blood fibrin usually is prepared either in stringy masses by whipping freshly drawn blood or in the form of weak clots by inhibiting the normal clotting process with citrate or oxalate, removing the red corpuscles by centrifuging and adding to the remaining plasma an excess of calcium salt.

The procedure involves the separation of fibrinogen from blood, purification thereof and the clotting of a solution of the purified concentrated fibrinogen with thrombin.

The fibrinogen may be prepared by first removing the corpuscles from the blood by centrifugation, clotting of the fibrinogen being prevented by the addition of citrates. The plasma remaining after the separation of the corpuscles is cooled to 0° C. to −3° C. and a precipitant for fibrinogen—namely, ethanol, is added to precipitate the fibrinogen, the pH value of the plasma being initially adjusted to pH 6.0 to 7.8. An ionic strength of 0.05 is adequate for effecting electrical discharge and flocculation.

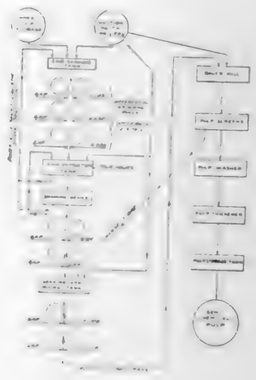
The precipitate formed contains 45% to 65% fibrinogen and is dissolved in a solution of sodium citrate at a pH of 5.9 to 6.7 and then frozen and dried from the frozen state producing a stable powder.

This powder may be purified by dissolving it in a solution of sodium citrate buffer at a pH of about 6.3 and reprecipitating at −3° C. by adding an equal volume of ethanol. This precipitate is composed of 80%—90% of fibrinogen. It may be dissolved in a solution of sodium citrate buffer of ionic strength 0.3 and pH of about 6.3 and then frozen and dried from the frozen state, thus producing a stable powder which can be stored for long periods and afterwards easily redissolved preparatory to making fibrin clots.

For preparing the clots, an aqueous fibrinogen solution is used at room temperature, the pH of the solution being adjusted to 6.0 to 6.5, the ionic strength being adjusted to 0.2 to 0.5. Purified thrombin in amount sufficient to make a final concentration of 0.1 to 1.0 unit per c.c. is added, and the solution is quickly transferred to the mold in which the clot is formed. The properties of the clot may be controlled by employing a different (e. g., higher) pH value, and also by adjusting other physical-chemical properties of the solution.

When the clot is formed, water is removed from it by pressing the clot between absorbent surfaces, for example between layers of cloth and filter pads for one to twenty-four hours at a pressure of about one-half pound per square inch. The compacted fibrin film may be plasticized by soaking in a plasticizer, for example glycerine or other polyhydric alcohol. The mechanical properties of the clot are influenced markedly by the proportion of plasticizer. The clots can be formed in a variety of shapes and sizes, including sheets, filaments, tubes and blocks, and the products may be coated with rubber, plastics, or other flexible material, and they can be formed with embedded materials including therapeutic agents of highly diversified character.

513,861. **METHODS OF PULP MANUFACTURE.** Francis G. Rawling, Luke, Md. Filed Dec. 11, 1943. Published Nov. 7, 1950. Class 92—13. 1 sheet of drawings. 33 pages of specification.



In this application woody material (examples: oak, poplar or other hard woods, bagasse) are first reduced to chips or other subdivision, are then leached in aqueous alkaline solution which is below a definite alkali concentration and below a definite temperature during treatment (examples: .1 to 1 gram per liter NaOH at a temperature not exceeding 50 C.). The purpose of the leaching step is not only to soften the pulp but to remove therefrom color bodies which are responsible for the later discoloration of the pulp. Such a solution does not effect discoloration as is produced by stronger alkalies. After this leaching, the woody material is disintegrated by mechanical means consisting of oppositely moving rolls through which the material is passed a number of times. After each pass, the rolls are moved closer together. Also the rolls turn at different relative speeds. Examples of the distance apart of the rolls and the speed ratios are given in the drawing. The pulp so produced is then further refined if necessary in a suitable mill such as a Bauer or a ball mill. The yield of pulp from a cord of oak would be approximately 3,000 lbs. of air dried pulp.

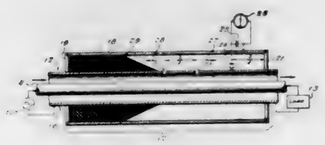
Various modifications are disclosed involving the steps of first treating chips with dilute sodium hydroxide solution followed by cooking at atmospheric pressure under mild conditions.

556,493. **RUBBER MANUFACTURE.** Fred H. Amon, Weston, Mass. Filed Sept. 29, 1944. Published Nov. 7, 1950. Class 260—41.5. No drawing. 11 pages of specification.

This disclosure relates to a method in which natural or synthetic rubber is compounded with discrete, free-flowing, substantially dustless pellets or granules comprising a pigment, such as carbon black, and approximately 5–20% of rubber deposited from a natural or synthetic rubber latex. These granules may also contain a small percentage of a dispersing or wetting agent, such as a sodium salt of an alkyl sulphonate, monosodium aryl sulphonic acid, alkylated naphthalene sulphonates, or nigrosine; these promote complete dispersion of the carbon black in the rubber batch. The synthetic rubber may be butadiene-styrene copolymer; butadiene-acrylonitrile copolymer; polychloroprene; a copolymer of isobutylene with a small amount of a diolefine; or an alkylene polysulfide polymer. The pigment may be carbon black, such as furnace black (as HMF or SRF) or channel black (as EPC); zinc oxide; or sulfur; or one may use a composite pellet of carbon black, zinc oxide and sulphur, or any combination thereof, or of two or more types of carbon black. The milling time may be reduced by employing the present process.

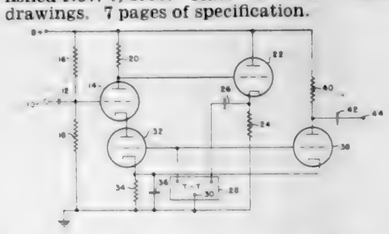
Various examples show a typical tread compound containing 95 parts GR-S and 50 parts of a pelletized product of 45 parts EPC black and 5 parts GR-S, and a typical rubber heel compound containing 10 parts natural rubber, 60 parts whole tire reclaim, and 22 parts of a pelletized product of 20 parts SRF black and 2 parts GR-S. Both these compounds contain the usual sulphur, zinc oxide, pine tar, coal tar softener, and N-cyclohexyl-2-benzothiazole sulfenamide accelerator. Other pellets may comprise 72% carbon black, 25% of synthetic rubber latex and 3% dispersing agent, or 75% black and 25% latex.

605,417. **HIGH FREQUENCY APPARATUS.** Theodore Moreno, Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware. Filed July 16, 1945. Published Nov. 7, 1950. Class 178—44. 1 sheet of drawings. 9 pages of specification.



A coaxial directional coupler wherein a portion of a main transmission line **12** is surrounded by a coaxial tubular conductor **18** which cooperates with the outer conductor **16** of the line **12** to act as an auxiliary coaxial line section. Coupling between the main and auxiliary lines may be provided by apertures **22** and **23** in the conductor **16**.

609,660. **BAND REJECTION AMPLIFIER.** Robert M. Walker, Belmont, Mass., assignor, by mesne assignments, to the Government of the United States of America as represented by the Secretary of War. Filed Aug. 8, 1945. Published Nov. 7, 1950. Class 179—171. 1 sheet of drawings. 7 pages of specification.



An electronic amplifier is disclosed, which rejects a particular band of frequencies, but passes frequencies both above and below this band. A first triode **14** has its grid connected to an input signal, which extends over a range of frequencies. A second triode **22** has its grid connected to the plate of the triode **14**. A third triode **32** has its plate to cathode path connected in the cathode circuit of the triode **14**, the resistor **34** and capacitor **36** providing the necessary cathode bias. The cathode of the triode **22** is connected to the grid of the triode **32** through a twin-T network **28**, which has zero transfer admittance at some particular frequency. A fourth triode **38** has its grid and cathode directly connected to the grid and cathode respectively of the triode **32**. In operation the input signal is amplified in the triodes **14** and **22** and fed back through the network **28** to the grid of the triode **32**, the polarity being such as to cause negative feedback in the triode **14** to render operation more stable. The output of the network **28** is applied to the grid of the triode **38**, with energy of the frequency removed at which the network **28** has zero transfer characteristic. The output is abstracted at the plate of the triode **38**, with energy of the frequency at which the network **28** has zero transfer characteristic removed.

774,691. **PHONOGRAPH RECORDS.** James P. Chittum, Waterbury, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Filed Sept. 17, 1947. Published Nov. 7, 1950. Class 260—85.5. No drawing. 13 pages of specification.

This application pertains to phonograph records made of isobutylene-acrylonitrile copolymers.

The copolymers may be prepared by copolymerizing in aqueous emulsion from 10 to 90 percent by weight of acrylonitrile with correspondingly from 90 to 10 percent of isobutylene. Emulsifying agents as soaps, the condensation product of formaldehyde with the sodium salt of naphthalene-sulfonic acid or dioctyl sodium sulfosuccinate are employed. Modifiers such as dodecyl mercaptan and peroxides or persulfate catalysts are used. A better copolymer is obtained when all of the isobutylene is present in the initial emulsion, and a major proportion of the acrylonitrile is gradually added (either portionwise or continuously) as the polymerization reaction proceeds. This procedure results in a copolymer having a lower flow temperature, a lower gravity and intrinsic viscosity than that prepared in the ordinary batch process, and having from 5 to 10 percent less combined nitrile than the batch process copolymers, in the case of a 2:1 (acrylonitrile:isobutylene) total monomer ratio. The polymerization temperature is 25°–35° C. for the

batch process, and may range from 50°–65° C. for the gradual addition process. Time—1 to 100 or more hours.

The copolymers preferred for these records contain by analysis from 65 to 85 percent combined acrylonitrile (e. g. 70 per cent acrylonitrile and 30 percent isobutylene), and exhibit the following physical properties:

Flow temperature	100° to 175° C.
Flow temperature coefficient	1.5 to 2.5
Heat distortion temperature	55° to 75° C.
Intrinsic viscosity	0.75 to 1.9

The molded specimens have the following properties:

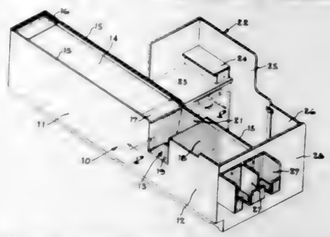
10^5 p. s. i. modulus temperature	60° to 80° C.
Flexural modulus at 25° C.	400,000 to 600,000 p. s. i.
Tensile strength	4,500 to 10,500 p. s. i.
Flexural strength	10,000 to 20,000 p. s. i.
Impact strength	2.5 to 10 ft. lbs. per inch thickness per 0.5 inch width (unnotched)
Rockwell hardness	70 to 100 on the M scale

The molding powder may consist of the copolymer alone or with plasticizers, dyes, pigments and fillers, or other resins may be blended with the copolymer. The record is molded by inserting a biscuit of the molding powder directly into the mold in which the stampers are mounted. The resin is preheated to 400° F., and the molding is done in a preheated mold using a maximum temperature of 325° F. and a 60 second molding cycle.

The resultant record showed no noticeable wear after the equivalent of 40 playings (accelerated wear test using 4½ oz. stylus), good reproduction of playing surface, high impact strength, good scratch resistance and low background noise level.

169,378. **CHECK-OUT COUNTER.** John W. Hassel, Cincinnati, Ohio, and Edward M. Harwell, Tampa, Fla. Filed June 21, 1950. Published Nov. 7, 1950. Class 186—1. 2 sheets of drawings. 12 pages of specification.

The device concerns a check-out counter which is designed for use in retail, self-service food stores, or the like, and comprises an elongated counter in which there is provided a bag receiving well formed in the counter intermediate the ends thereof, thereby dividing the counter into two portions. In the portion of the counter toward the approach end a conveyor belt is provided which extends substantially over the entire surface of this part of the counter and which is arranged to be motor-driven toward the well under the control of the cashier. Adjacent the well, a cashier's station is provided at the side of the counter. The well includes a rear wall which is inclined toward the cashier's station. The bottom of the well has one section which is substantially horizontal and another section, adjacent the inclined rear wall, which is slanted downwardly toward the rear wall. The purpose of the inclined

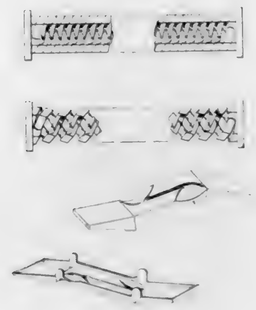


rear wall and slanted bottom section is to facilitate the filling of bags by the cashier. The well is designed so that means can be employed for elevating the bottom to raise filled bags of merchandise to counter top level. The well is also adapted to be provided with suction means in the side walls for maintaining in open position bags placed therein. The counter may be used for either a one man or two man operation. In the one man operation, the counter is set up as shown in the above figure. However, if it is desired to arrange the counter for two man operation, a closure plate is provided which is adapted to be positioned over the open mouth of the well to make a continuous counter surface from one end to the other. When used for the two man operation, bagging wells which are attached to the discharge end of the counter are employed.

DESIGNS

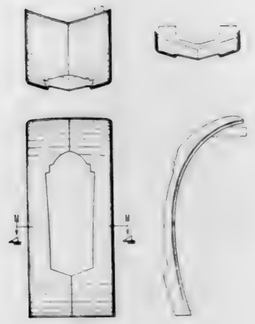
NOVEMBER 7, 1950

160,759
EXPANSIBLE WATCH BRACELET
Arthur Albanese, Providence, R. I., assignor to Marvel Jewelry Mfg. Company, Providence, R. I., a corporation of Rhode Island
Application April 24, 1950, Serial No. 9,446
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible watch bracelet, as shown and described.

160,760
ORNAMENT FOR AN AUTOMOBILE GRILLE
Harry T. Bannister, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,604
Term of patent 7 years
(Cl. D14—6)

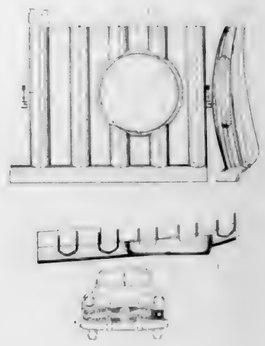


The ornamental design for an ornament for an automobile grille, substantially as shown and described.

160,761
HOUSING FOR AN AUTOMOBILE MEDALLION
Harry T. Bannister, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,605
Term of patent 7 years
(Cl. D14—6)

The ornamental design for a housing for an automobile medallion, substantially as shown and described.

160,762
COMBINED AUTOMOBILE LAMP LENS HOUSING AND GRILLE PANEL
Harry T. Bannister, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,606
Term of patent 7 years
(Cl. D14—6)

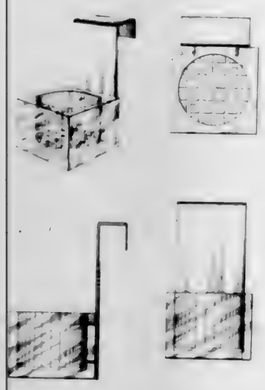


The ornamental design for a combined automobile lamp lens housing and grille panel, substantially as shown and described.

160,763
ASH RECEIVER
Jack H. Barrett, Washington, D. C.
Application June 1, 1949, Serial No. 2,980
Term of patent 7 years
(Cl. D85—2)

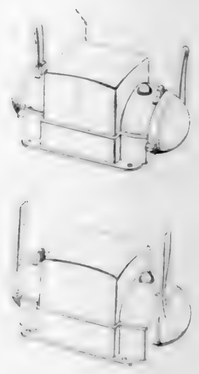
The ornamental design for an ash receiver, substantially as shown.

160,764
COMBINED COASTER AND BRACKET
Gorman L. Bender, Wichita, Kans.
Application May 14, 1949, Serial No. 2,649
Term of patent 14 years
(Cl. D44—10)



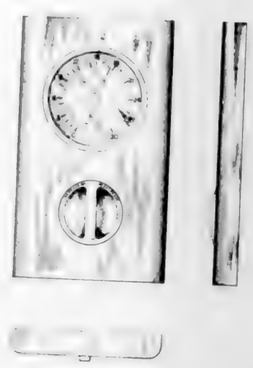
The ornamental design for a combined coaster and bracket, as shown.

160,765
CONTROLLER FOR TOY RAILROADS
Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application October 8, 1949, Serial No. 5,381
Term of patent 14 years
(Cl. D26—5)



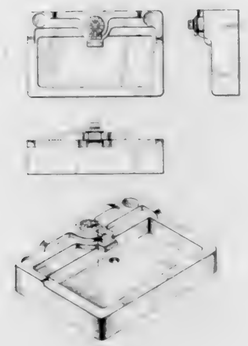
The ornamental design for a controller for toy railroads, as shown.

160,766
CONTROL PANEL FOR REMOTE MEASURING AND CONTROL INSTRUMENT
John G. Booth, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 2, 1947, Serial No. 142,910
Term of patent 14 years
(Cl. D52—1)



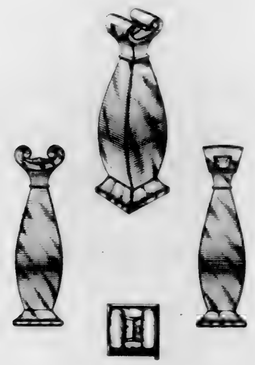
The ornamental design for a control panel for remote measuring and control instrument, substantially as shown.

160,767
COMBINED FAUCET AND SINK
Charles Kepler Brown, Jr., Fairmont, W. Va.
Application October 6, 1947, Serial No. 141,773
Term of patent 14 years
(Cl. D4—2)



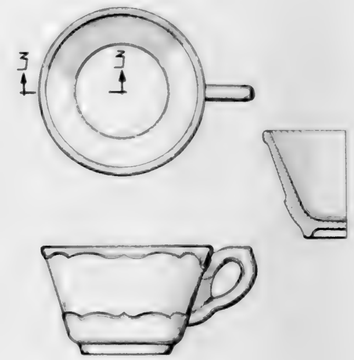
The ornamental design for a combined faucet and sink as shown.

160,768
DECANTER OR SIMILAR ARTICLE
John D. Buckingham and Peter Fink, Chicago, Ill., assignors to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application May 3, 1950, Serial No. 9,688
Term of patent 14 years
(Cl. D58—6)



The ornamental design for a decanter or similar article, as shown.

160,769
CUP
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 6, 1949, Serial No. 6,453
Term of patent 14 years
(Cl. D44—9)

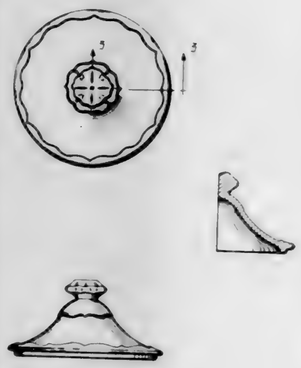


The ornamental design for a cup, as shown.

160,770
SUGAR BOWL
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 6, 1949, Serial No. 6,456
Term of patent 14 years
(Cl. D44—10)

The ornamental design for a sugar bowl, as shown.

160,771
COVER FOR SUGAR BOWL
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 6, 1949, Serial No. 6,457
Term of patent 14 years
(Cl. D44—15)

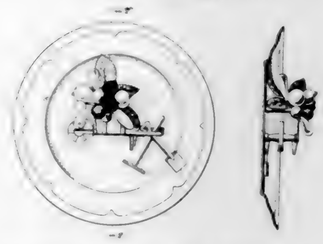


The ornamental design for a cover for sugar bowl, as shown.

160,772
CREAM PITCHER
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 6, 1949, Serial No. 6,458
Term of patent 14 years
(Cl. D44—21)

The ornamental design for a cream pitcher, as shown.

160,773
PLAQUE
Dino J. Cristofoletti, New York, N. Y.
Application October 28, 1949, Serial No. 5,749
Term of patent 14 years
(Cl. D29—23)



The ornamental design for a Plaque, as shown.

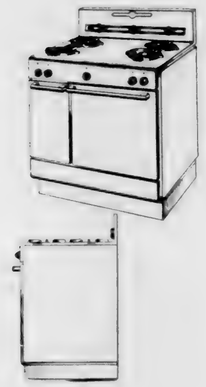
160,774
SINK STRAINER
Paul F. Danielson, San Marino, Calif.
Application February 19, 1949, Serial No. 959
Term of patent 14 years
(Cl. D44—29)

The ornamental design for a sink strainer, as shown.

160,775
JEWELRY CHAIN
Erwin W. Deines, Cranston, R. I., assignor to Chain Craft Co., a corporation of Rhode Island
Application May 24, 1950, Serial No. 10,140
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a jewelry chain, substantially as shown.

160,776
GAS STOVE
Henri Desguin, Koekelberg, and Nestor Sauvage, Berchem-Ste-Agathe, Belgium, assignors to Fonderies Nestor Martin, societe anonyme, Berchem-Brussels, Belgium, a corporation of Belgium
Application October 3, 1949, Serial No. 5,285
In Belgium June 2, 1949
Term of patent 14 years
(Cl. D81—4)



The ornamental design for a gas stove, as shown and described.

160,777
MEDAL
Louis H. Dietzel, Kansas City, Mo., assignor to Kansas City Centennial Association, Kansas City, Mo., a corporation of Missouri
Application November 21, 1949, Serial No. 6,165
Term of patent 3½ years
(Cl. D29—19)

The ornamental design for a medal, as shown and described.

160,778
DECANTER OR SIMILAR ARTICLE
Peter Fink, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1950, Serial No. 7,929
Term of patent 14 years
(Cl. D58—6)

The ornamental design for a decanter or similar article, as shown.

160,779
DECANTER OR SIMILAR ARTICLE
Peter Fink, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application February 14, 1950, Serial No. 7,930
Term of patent 14 years
(Cl. D58—8)

The ornamental design for a decanter or similar article, as shown.

160,780
PETTICOAT
Anna Friedman, New York, N. Y.
Application January 11, 1950, Serial No. 7,168
Term of patent 3½ years
(Cl. D3—26)

The ornamental design for a petticoat, substantially as shown.

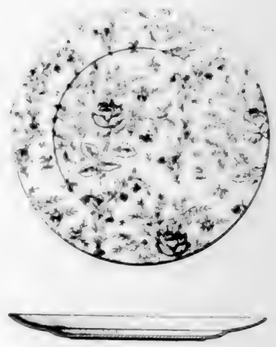
160,781
FLOWERPOT HOLDER OR SIMILAR ARTICLE
Albert J. Giese, Denver, Colo.
Application May 12, 1948, Serial No. 146,333
Term of patent 7 years
(Cl. D35—3)

The ornamental design for a flowerpot holder or similar article, as shown and described.

160,782
TOY ROLY-POLY OR THE LIKE
Carla Greene, Chicago, Ill.
Application June 15, 1949, Serial No. 3,288
Term of patent 14 years
(Cl. D34—15)

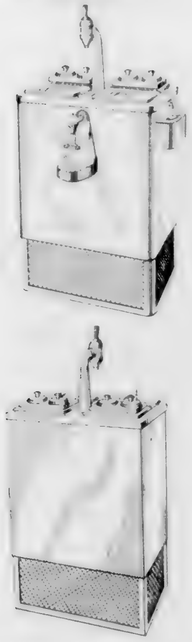
The ornamental design for a toy roly-poly or the like, substantially as shown.

160,783
PLATE OR SIMILAR ARTICLE
George J. Higginson, Bronxville, N. Y., assignor to Johnson Bros. (Hanley) Ltd., New York, N. Y., a corporation of Great Britain
Application February 5, 1949, Serial No. 703
Term of patent 14 years
(Cl. D44—15)



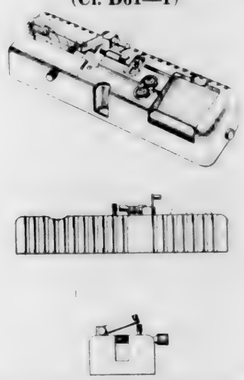
The ornamental design for a plate or similar article, as shown and described.

160,784
BEVERAGE DISPENSING FOUNTAIN
Kermit D. Huffman, Phoenix, Ariz.
Application June 24, 1949, Serial No. 3,502
Term of patent 7 years
(Cl. D2—3)



The ornamental design for a beverage dispensing fountain, as shown.

160,785
PHOTOGRAPHIC SLIDE BINDER
Julius Huisgen, New York, N. Y., assignor to E. Leitz, Inc., New York, N. Y., a corporation of New York
Application June 25, 1949, Serial No. 3,539
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a photographic slide binder, substantially as shown and described.

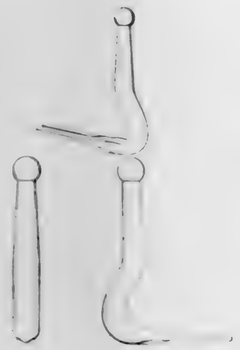
160,786
COMBINED ASH TRAY, CIGARETTE AND MATCH HOLDER
Michael Iwanoski, Newark, N. J.
Application April 14, 1949, Serial No. 1,988
Term of patent 7 years
(Cl. D85—2)

The ornamental design for a combined ash tray, cigarette and match holder, as shown.

160,787
EMBROIDERED MEDALLION FOR SHOES OR THE LIKE
Sardul S. Jaaj, New York, N. Y.
Application December 15, 1949, Serial No. 6,634
Term of patent 3½ years
(Cl. D7—6)

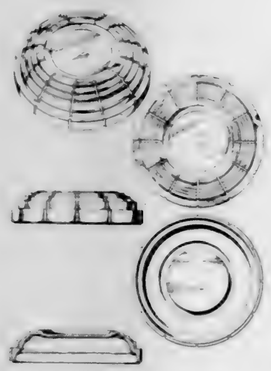
The ornamental design for an embroidered medallion for shoes or the like, as shown.

160,788
AUTOMOBILE GRILLE GUARD
Howard M. Jenkins, Jr., Detroit, Mich., assignor to Van Auken, Inc., Ferndale, Mich., a corporation of Michigan
Application August 31, 1949, Serial No. 4,798
Term of patent 14 years
(Cl. D14—6)



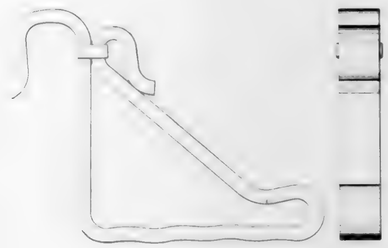
The ornamental design for an automobile grille guard, as shown.

160,789
TRAP SHOOTING TARGET
Lynvell R. Jordan, Santa Monica, Calif., assignor to Jack B. Nethercutt, Los Angeles, Calif.
Application March 9, 1950, Serial No. 8,409
Term of patent 14 years
(Cl. D34—5)



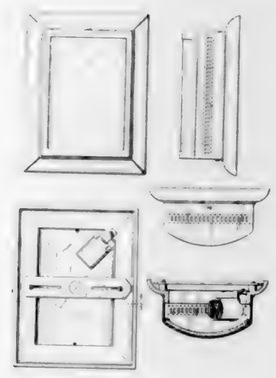
The ornamental design for a trap shooting target, as shown.

160,790
CLOTHES HANGER
Harold G. Kongieser and Charles W. Weickers, Worcester, Mass.
Application October 13, 1947, Serial No. 141,880
Term of patent 3½ years
(Cl. D33—8)



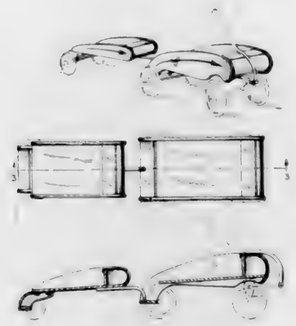
The ornamental design for a clothes hanger, as shown.

160,791
LIGHT FIXTURE
Max Kushner, Brooklyn, N. Y.
Application December 15, 1949, Serial No. 6,638
Term of patent 14 years
(Cl. D48—4)



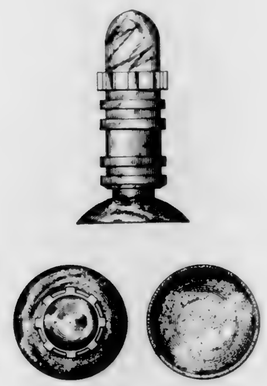
The ornamental design for a light fixture, as shown and described.

160,792
COMBINED TOY WAGON AND TRAILER
Mortier W. La Fever, Jr., New Orleans, La.
Application April 26, 1949, Serial No. 2,256
Term of patent 7 years
(Cl. D34—15)



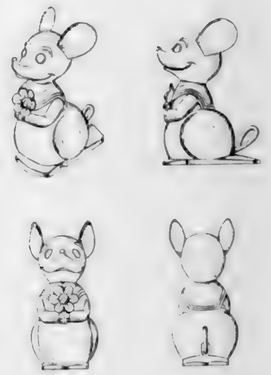
The ornamental design for a combined toy wagon and trailer, as shown and described.

160,793
UTILITY LIGHT
Cornelius J. La Roe, New York, N. Y.
Application December 8, 1949, Serial No. 6,505
Term of patent 7 years
(Cl. D48—20)



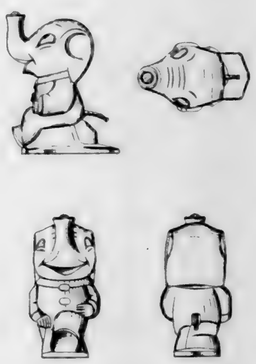
The ornamental design for a utility light, as shown.

160,794
TOY MOUSE
Benjamin L. Levinson, New York, N. Y., assignor to Electric Animals, Inc., New York, N. Y., a corporation of New York
Application March 22, 1950, Serial No. 8,685
Term of patent 14 years
(Cl. D34—2)



The ornamental design for a toy mouse, as shown.

160,795
TOY ELEPHANT
Benjamin L. Levinson, New York, N. Y., assignor to Electric Animals, Inc., New York, N. Y., a corporation of New York
Application March 22, 1950, Serial No. 8,686
Term of patent 14 years
(Cl. D34—2)



The ornamental design for a toy elephant, as shown.

160,796
LADY'S STOCKING
Harold Levy, New York, N. Y.
Application January 31, 1950, Serial No. 7,584
Term of patent 3½ years
(Cl. D47—7)

The ornamental design for a lady's stocking, as shown.

160,797
LADY'S STOCKING
Harold Levy, New York, N. Y.
Application January 31, 1950, Serial No. 7,585
Term of patent 3½ years
(Cl. D47—7)

The ornamental design for a lady's stocking, as shown.

160,798
RANGE
John M. Little, Toledo, Ohio, assignor to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application July 2, 1949, Serial No. 3,679
Term of patent 14 years
(Cl. D81—4)

The ornamental design for a range, substantially as shown and described.

160,799
JACKET OR SIMILAR ARTICLE
Henry Mandelbaum, New York, N. Y.
Application March 6, 1950, Serial No. 8,342
Term of patent 3½ years
(Cl. D3—4)

The ornamental design for a jacket or similar article, substantially as shown.

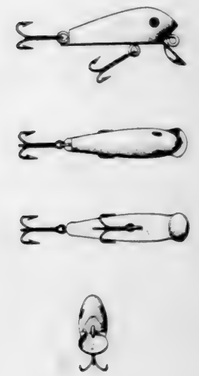
160,800
COAT
Henry Mandelbaum, New York, N. Y.
Application March 7, 1950, Serial No. 8,381
Term of patent 3½ years
(Cl. D3—4)

The ornamental design for a coat, substantially as shown.

160,801
JACKET OR SIMILAR ARTICLE
Henry Mandelbaum, New York, N. Y.
Application March 7, 1950, Serial No. 8,382
Term of patent 3½ years
(Cl. D3—4)

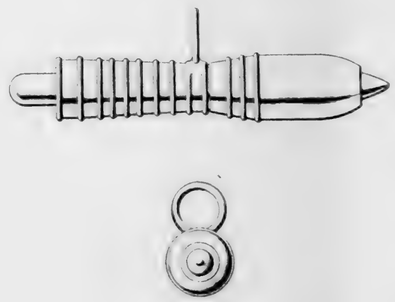
The ornamental design for a jacket or similar article, substantially as shown.

160,802
FISHING LURE
Houston B. Marshall and Haskell L. Baker, Fort Worth, Tex., assignors to E. W. Gist, Oklahoma City, Okla.
Application November 26, 1948, Serial No. 149,816
Term of patent 14 years
(Cl. D31—4)



The ornamental design for a fishing lure, substantially as shown.

160,803
JEWELRY PENDANT
Ernest R. Neyhard, Pottstown, Pa.
Application July 10, 1950, Serial No. 11,035
Term of patent 14 years
(Cl. D45—17)

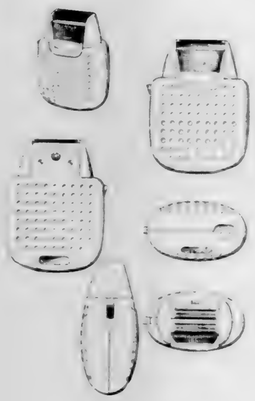


The ornamental design for a jewelry pendant, as shown.

160,804
STOCKING
Buddy Ontra, New York, N. Y., assignor of one-half to Vo-Jul Textiles, Inc., Doylestown, Pa., a corporation of Pennsylvania
Application July 2, 1949, Serial No. 3,666
Term of patent 14 years
(Cl. D47—7)

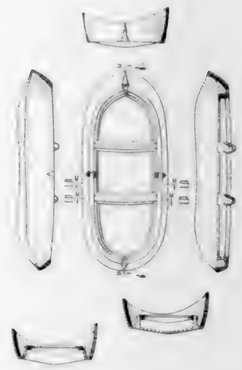
The ornamental design for a stocking, as shown.

160,805
ELECTRIC SHAVER
Carl L. Otto, New York, N. Y., assignor to Schick Incorporated, Stamford, Conn., a corporation of Delaware
Application June 16, 1950, Serial No. 10,571
Term of patent 14 years
(Cl. D22—3)



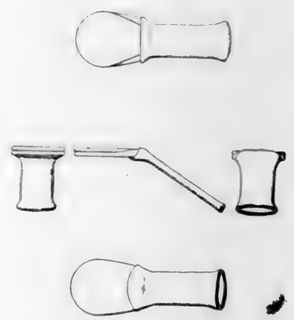
The ornamental design for an electric shaver, as shown.

160,806
LENS HOUSING FOR AUTOMOBILE LAMPS
Harold W. Pilkey, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,622
Term of patent 7 years
(Cl. D48—32)



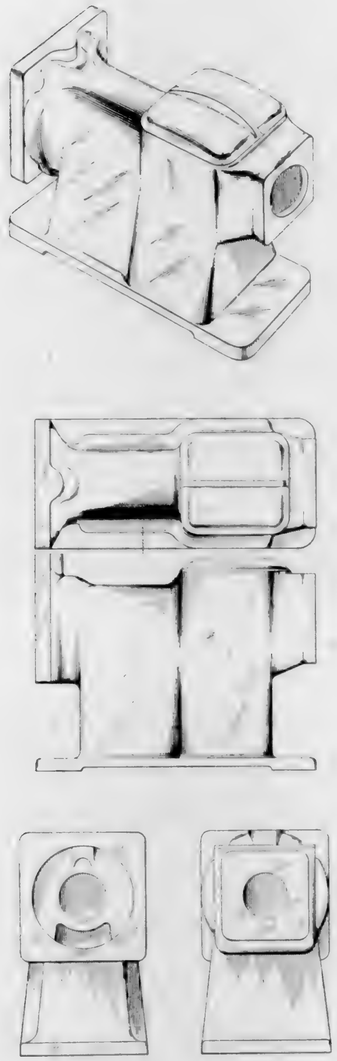
The ornamental design for a lens housing for automobile lamps, substantially as shown and described.

160,807
GOLF CLUB COVER
John S. Runyan, San Clemente, Calif.
Application December 6, 1948, Serial No. 150,005
Term of patent 7 years
(Cl. D34—5)



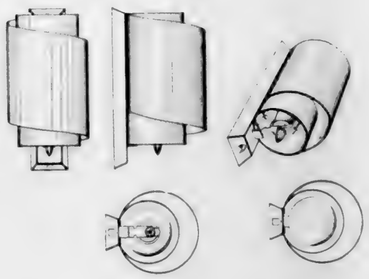
The ornamental design for a golf club cover, substantially as shown.

160,808
METERING PUMP FOR CHEMICAL SOLUTIONS OR THE LIKE
Royal Bartlett Saalfrank, Gulfport, Fla., assignor to Milton Roy Company, Chestnut Hill, Pa., a corporation of Pennsylvania
Application October 20, 1949, Serial No. 5,600
Term of patent 14 years
(Cl. D65—1)



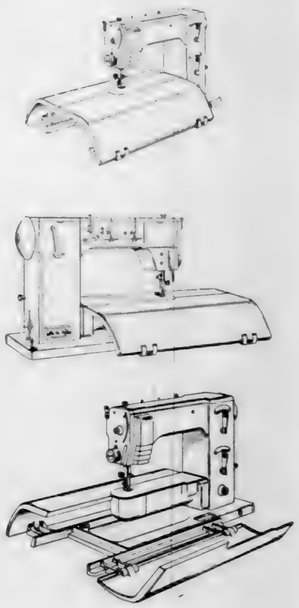
The ornamental design for a metering pump for chemical solutions or the like, as shown and described.

160,809
WALL LAMP
Ralph D. Schear and Jack G. Berg, Dayton, Ohio
Application January 24, 1950, Serial No. 7,442
Term of patent 14 years
(Cl. D48—4)



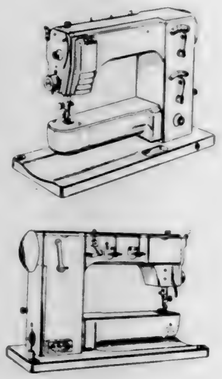
The ornamental design for a wall lamp, as shown.

160,810
SEWING MACHINE
Karl Scheiwiller, Rosenberg, St. Gallen, Switzerland, assignor to Brutsch & Co., St. Gallen, Switzerland
Application November 1, 1949, Serial No. 5,823
In Switzerland July 15, 1949
Term of patent 14 years
(Cl. D70—2)



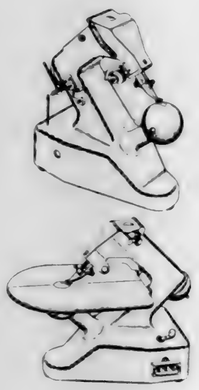
The ornamental design for a sewing machine, substantially as shown.

160,811
SEWING MACHINE
Karl Scheiwiller, Rosenberg, St. Gallen, Switzerland, assignor to Brutsch & Co., St. Gallen, Switzerland
Application November 1, 1949, Serial No. 5,824
In Switzerland July 15, 1949
Term of patent 14 years
(Cl. D70—2)



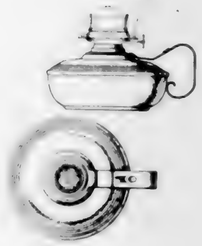
The ornamental design for a sewing machine, substantially as shown.

160,812
MENDING MACHINE
Karl Scheiwiller, Rosenberg, St. Gallen, Switzerland, assignor to Brutsch & Co., St. Gallen, Switzerland
Application November 1, 1949, Serial No. 5,825
In Switzerland July 30, 1949
Term of patent 14 years
(Cl. D70—2)



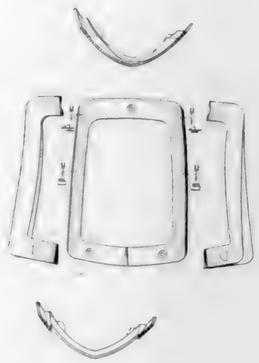
The ornamental design for a mending machine, substantially as shown and described.

160,813
FOUNT FOR KEROSENE OIL LAMPS
Samuel Scherr and French Eugene Smith, Akron, Ohio, assignors to S. F. Appliances, Limited, a corporation of New Jersey
Application September 8, 1949, Serial No. 4,911
Term of patent 3½ years
(Cl. D48—21)



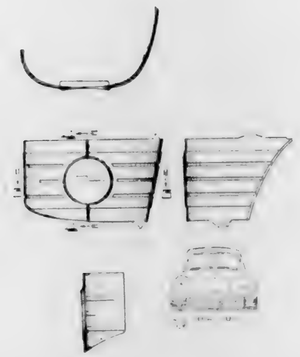
The ornamental design for a fount for kerosene oil lamps, as shown and described.

160,814
LENS HOUSING FOR AUTOMOBILE LAMPS
David E. Scott, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,632
Term of patent 7 years
(Cl. D48—32)



The ornamental design for a lens housing for automobile lamps, substantially as shown and described.

160,815
FENDER ORNAMENT FOR AN AUTOMOBILE
David E. Scott, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 18, 1950, Serial No. 8,633
Term of patent 7 years
(Cl. D14—6)

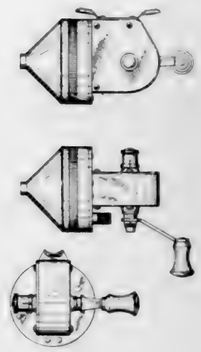


The ornamental design for a fender ornament for an automobile, substantially as shown and described.

160,816
CHAIR
Harry Sebel, London, England
Application January 2, 1948, Serial No. 143,529
In Great Britain January 28, 1946
Term of patent 14 years
(Cl. D15—1)

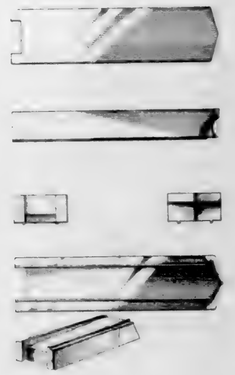
The ornamental design for a chair, substantially as shown.

160,817
FISHING REEL
Henry G. Shakespeare and Gerald D. Harrington, Kalamazoo, Mich., assignors to Shakespeare Company, Kalamazoo, Mich.
Application December 14, 1949, Serial No. 6,598
Term of patent 14 years
(Cl. D31—4)



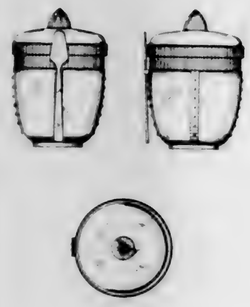
The ornamental design for a fishing reel, as shown.

160,818
SHIP HULL
Edward J. Sims, San Francisco, Calif.
Application August 8, 1949, Serial No. 4,358
Term of patent 3½ years
(Cl. D71—1)



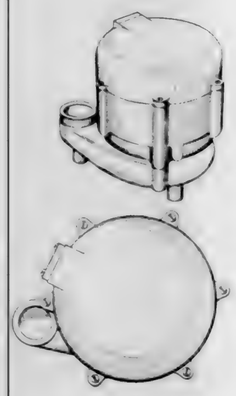
The ornamental design for a ship hull, substantially as shown.

160,819
COMPLEXION CREAM JAR
Lawrence H. Singer, Brooklyn, and Evelyn M. Corper, Garden City, N. Y., assignors to Conti Products Corporation, Brooklyn, N. Y., a corporation of New York
Application October 20, 1949, Serial No. 5,592
Term of patent 3½ years
(Cl. D58—25)

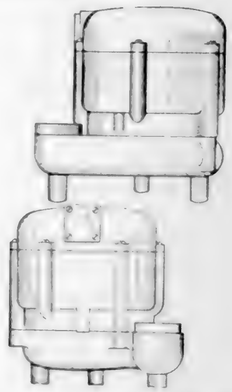


The ornamental design for a complexion cream jar, as shown.

160,820
ELECTRIC MOTOR OPERATED CENTRIFUGAL PUMP
Elmer C. Slaughter, Piqua, Ohio
Application November 16, 1948, Serial No. 149,671
Term of patent 14 years
(Cl. D65—1)

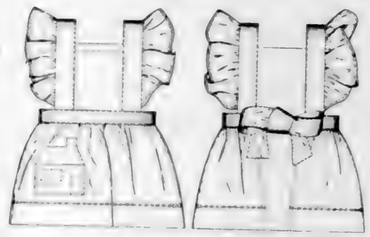


160,820—Continued



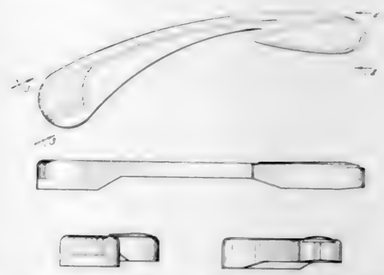
The ornamental design for an electric motor operated centrifugal pump, substantially as shown.

160,821
APRON
May L. Smalley, Malden, Mass.
Application January 24, 1950, Serial No. 7,438
Term of patent 3½ years
(Cl. D3—26)



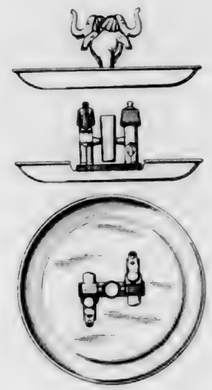
The ornamental design for an apron, as shown.

160,822
PHONOGRAPH PICKUP ARM
James E. Vistain, Jr., and Samuel E. Adler, Chicago, Ill., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application June 8, 1950, Serial No. 10,421
Term of patent 14 years
(Cl. D26—14)



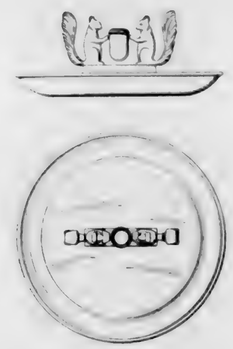
The ornamental design for a phonograph pick-up arm as shown.

160,823
COMBINED ASH TRAY AND SNUFFER
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 6,804
Term of patent 7 years
(Cl. D85—2)



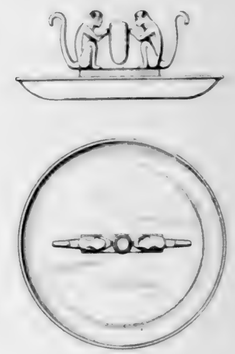
The ornamental design for a combined ash tray and snuffer, substantially as shown and described.

160,824
COMBINED ASH TRAY AND SNUFFER
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 6,805
Term of patent 7 years
(Cl. D85—2)



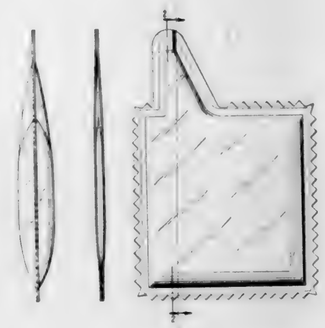
The ornamental design for a combined ash tray and snuffer, substantially as shown and described.

160,825
COMBINED ASH TRAY AND SNUFFER
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York
Application December 23, 1949, Serial No. 6,806
Term of patent 7 years
(Cl. D85—2)



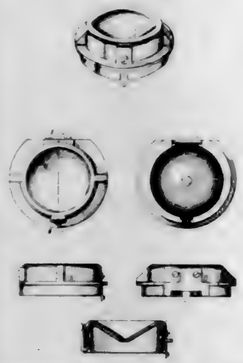
The ornamental design for a combined ash tray and snuffer, substantially as shown and described.

160,826
CONTAINER FOR CREAM SOAP OR THE LIKE
Daniel D. Whyte, Brooklyn, N. Y.
Application August 2, 1949, Serial No. 4,256
Term of patent 14 years
(Cl. D58—2)



The ornamental design for a container for cream soap or the like, as shown.

160,827
INCIDENT LIGHT ADAPTER FOR PHOTO-ELECTRIC EXPOSURE METERS
Alexander T. Williams, Westfield, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application August 9, 1948, Serial No. 148,007
Term of patent 14 years
(Cl. D61—1)

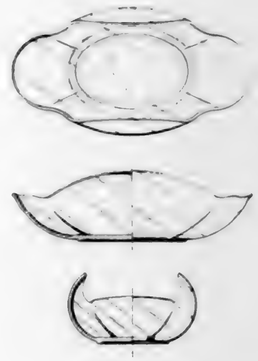


The ornamental design for an incident light adapter for photoelectric exposure meters, as shown and described.

160,828
WATCH BAND
Earl R. Wright, Comanche, Tex.
Application March 25, 1950, Serial No. 8,764
Term of patent 7 years
(Cl. D45—4)

The ornamental design for a watch band, substantially as shown and described.

160,829
OVAL BOWL
Marvin G. Yutzey, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application December 28, 1949, Serial No. 6,892
Term of patent 3½ years
(Cl. D44—10)



The ornamental design for an oval bowl, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 584,098, Nov. 7. Class 18.

Abbott Laboratories, North Chicago, Ill. Analeptic and circulatory stimulant. Serial No. 590,406, Nov. 7. Class 18.

Abrams, Robert R., doing business as Aqua-Sorb Company, East Orange, N. J. Dehumidification units. Serial No. 584,956, Nov. 7. Class 34.

All-Steel Equipment Inc., Aurora, Ill. Hardware. Serial No. 558,435, Nov. 7. Class 13.

Alva Roller Mills: *See*—
Flour Mills of America, Inc.

American Oil Company, The, Baltimore, Md. Industrial oil. Serial No. 592,455, Nov. 7. Class 15.

American Oil Company, The, Baltimore, Md. Industrial grease. Serial No. 592,456, Nov. 7. Class 15.

American Oil Company, The, Baltimore, Md. Industrial oil. Serial Nos. 592,458–9, Nov. 7. Class 15.

American Oil Company, The, Baltimore, Md. All purpose grease and general industrial high temperature bearing grease. Serial No. 592,460, Nov. 7. Class 15.

American Oil Company, The, Baltimore, Md. Industrial oil. Serial No. 592,461, Nov. 7. Class 15.

American Paulin System: *See*—
Munter, Arch F.

American Saw & Manufacturing Company, Springfield, Mass. Hack saws. Serial No. 546,917, Nov. 7. Class 23.

American Stove Company, St. Louis, Mo. Phenolsilicate product. Serial No. 590,640, Nov. 7. Class 6.

Ammco Tools, Inc., Chicago, Ill. Machine tools. Serial Nos. 555,914–15, Nov. 7. Class 23.

Anemostat Corporation of America, New York, N. Y. Air and gas outlet and diffusing units. Serial No. 581,579, Nov. 7. Class 34.

Apothecaries Hall Company, Waterbury, Conn. Dry powdery chemical mixture. Serial No. 568,706, Nov. 7. Class 6.

Aqua-Sorb Company: *See*—
Abrams, Robert R.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets or billfolds. Serial No. 596,771, Nov. 7. Class 3.

Armour and Company, Chicago, Ill. Bacon and hydrogenated vegetable shortening. Serial No. 540,020, Nov. 7. Class 46.

Armour and Company, Chicago, Ill. Cleanser. Serial No. 579,778, Nov. 7. Class 52.

Askin, Sara A., Philadelphia, Pa. Antiseptic composition. Serial No. 577,989, Nov. 7. Class 18.

Auto-Soler Company, The, Atlanta, Ga. Fastener forming and inserting machines. Serial No. 546,946, Nov. 7. Class 23.

Avoset Company, San Francisco, Calif. Sterilized cream packed under pressure. Serial No. 589,373, Nov. 7. Class 46.

Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Sulphanilamide-methyl-thiodiazole. Serial No. 591,396, Nov. 7. Class 18.

B-Gay Products Co.: *See*—
Carlson, Hjalmar.

Bader, William E., doing business as Chief Mfg. Co., Omaha, Nebr. Hand-operated glue dispensing machines. Serial No. 579,369, Nov. 7. Class 23.

Badger Decalcomania Company, Milwaukee, Wis. Decalcomania or transfer labels. Serial No. 585,558, Nov. 7. Class 38.

Bamberger-Reinthal Company, The, Cleveland, Ohio. Knitted outer wear. Serial No. 588,624, Nov. 7. Class 39.

Bardenheier, John, Wine & Liquor Co., St. Louis, Mo. Wines. Serial No. 535,675, Nov. 7. Class 47.

Barret, William M., Inc., Shreveport, La. Electrical and geophysical apparatus. Serial No. 591,398, Nov. 7. Class 26.

Barry, R. G., Corporation, Columbus, Ohio. Bust forms. Serial No. 594,094, Nov. 7. Class 40.

Bart, Gene, Inc., New York, N. Y. Ladies' blouses, shirtwaists and dresses. Serial No. 589,063, Nov. 7. Class 39.

Barton, Inc., Brooklyn, N. Y. Candies, chocolates, nuts and cookies. Serial No. 548,712, Nov. 7. Class 46.

Bastian-Morley Co., Inc., La Porte, Ind. Gas water-heaters. Serial No. 553,261, Nov. 7. Class 34.

Beede Electrical Instrument Company, Inc., Penacook, N. H. Electric meters. Serial No. 585,825, Nov. 7. Class 26.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Coaster wagons, children's velocipedes, toy pistol holsters, etc. Serial No. 579,070, Nov. 7. Class 22.

Bemis Bro. Bag Company, St. Louis, Mo. Textile piece goods. Serial No. 526,871, Nov. 7. Class 42.

Beton, Billy M., doing business as The Beton Company, San Francisco, Calif. Canned fish and canned fruit juices. Serial No. 585,912, Nov. 7. Class 46.

Beton Company, The: *See*—
Beton, Billy M.

Bluefield Supply Company, Bluefield, W. Va. Laundry washing machines. Serial No. 594,879, Nov. 7. Class 24.

Bluewater Fisheries Limited, Saint John, New Brunswick, Canada. Canned fish and lobster. Serial No. 506,499, Nov. 7. Class 46.

Borg-Erickson Corporation, The, Chicago, Ill. Bathroom scales. Serial No. 593,465, Nov. 7. Class 26.

Brenner, Raymond: *See*—
Brenner, Raymond, Inc.

Brenner, Raymond, Inc., also trading as Raymond Brenner, Youngstown, Ohio. Sterling silverware and silverplated holloware, etc. Serial No. 592,416, Nov. 7. Class 28.

Bruce Pharmaceutical Distributing Corp., Chicago, Ill. Liquid preparation used in combating the pityrosphorumovale. Serial No. 573,450, Nov. 7. Class 18.

Burke, Gerald, Binghamton, N. Y. Accounting, auditing, book-keeping setting up methods. Serial No. 578,763, Nov. 7. Class 101.

Burlew, John N., and Nona La Von, Portland, Oreg. Work bench. Serial No. 580,400, Nov. 7. Class 23.

Bussmann Manufacturing Company: *See*—
McGraw Electric Company, The.

Canvas Specialty Company, New York, N. Y. Protective covers and pads. Serial No. 595,060, Nov. 7. Class 50.

Carlson, Hjalmar, doing business as B-Gay Products Co., North Bergen, N. J. Hair pins. Serial No. 596,832, Nov. 7. Class 40.

Caro, Inc., New York, N. Y. Earrings. Serial No. 586,524, Nov. 7. Class 26.

Carter Motor Company, Chicago, Ill. Motor generators. Serial No. 576,111, Nov. 7. Class 21.

Central Bag & Burlap Company, Chicago, Ill. Textile bags. Serial No. 546,954, Nov. 7. Class 2.

Central Machine Works Co., Minneapolis, Minn. Metal brackets for use in the construction of docks. Serial No. 575,750, Nov. 7. Class 12.

Certified Dry Mat Corporation, New York, N. Y. Matrix, dry mat, or board used in stereotyping or electrotyping. Serial No. 593,973, Nov. 7. Class 50.

Chambers Corporation, Shelbyville, Ind. Cooking and heating unit. Serial Nos. 568,026–7, Nov. 7. Class 34.

Champion Motors Company, Minneapolis, Minn. Outboard marine engines. Serial No. 585,914, Nov. 7. Class 23.

Chanel, Inc., New York, N. Y. Perfume. Serial No. 585,743, Nov. 7. Class 51.

Chase Candy Company, St. Louis Mo. Candy. Serial Nos. 558,861–2, Nov. 7. Class 46.

Chicago Belting Company, Chicago, Ill. Textile machinery parts. Serial No. 583,587, Nov. 7. Class 23.

Chicago Paints, Inc., Chicago, Ill. Asbestos roof cement. Serial No. 562,759, Nov. 7. Class 12.

Chief Mfg. Co.: *See*—
Bader, William E.

Chisholm-Moore Hoist Corporation, Tonawanda, N. Y. Overhead trolleys and parts thereof. Serial No. 515,080, Nov. 7. Class 23.

Citron, Samuel, doing business as Priscilla Rug Products, Boston, Mass. Rug making materials. Serial No. 583,638, Nov. 7. Class 40.

Clayter Corporation, New York, N. Y. Advertising stickers. Serial No. 588,274, Nov. 7. Class 38.

Cleveland Heater Co., The, Cleveland, Ohio. Metallic fittings and alloys. Serial No. 584,526, Nov. 7. Class 21.

Cleveland Worm & Gear Company, The, Cleveland, Ohio. Machine worms and gears and worm gear reduction units. Serial No. 593,162, Nov. 7. Class 23.

Coleman Company, Inc., The, Wichita, Kans. Gas burners, floor furnaces, water heaters, etc. Serial No. 580,875, Nov. 7. Class 34.

Coleman Instruments, Inc., Maywood, Ill. Computing rules. Serial No. 592,880, Nov. 7. Class 26.

Columbus Metal Products Inc., Columbus, Ohio. Electrical automotive lamps. Serial No. 577,101, Nov. 7. Class 21.

Commonwealth Electric and Manufacturing Co.: *See*—
Pelkus, Leo C.

Conklin, Charles R., doing business as The Liden Company, Fort Wayne, Ind. Salve for treatment of eczema, psoriasis, skin inflammation, etc. Serial No. 575,850, Nov. 7. Class 18.

Consolidated Flour Mills Company, The, Wichita, Kans. Serial No. 532,396, Nov. 7. Class 46.

Continental Paint & Varnish Co., Chicago, Ill. Combination paint sealer and liquid coater. Serial No. 539,657, Nov. 7. Class 16.

Continental Smelting & Refining Co., McCook, Ill. Nonferrous metals and alloys. Serial No. 590,354, Nov. 7. Class 14.

Corn Products Refining Company, New York, N. Y. Chemicals. Serial No. 514,938, Nov. 7. Class 16.

Corn Products Refining Company, New York, N. Y. Syrup for food purposes. Serial No. 560,189, Nov. 7. Class 46.

Countryman Limited, The, London, England. Printed periodical. Serial No. 583,247, Nov. 7. Class 38.

Crest Company, The: *See*—
Larkin, Daniel C.

Crookes Laboratories, Inc., New York, N. Y. Pharmaceutical combination. Serial No. 591,335, Nov. 7. Class 18.

Curtis 1000, Incorporated, St. Paul, Minn., and Hartford, Conn. Mailing envelopes of paper. Serial No. 590,011, Nov. 7. Class 37.

Decatur Pump Company, Decatur, Ill. Turbine pumps, water pumps, centrifugal pumps, etc. Serial No. 537,020, Nov. 7. Class 23.

Deering, Milliken & Company, Inc., New York, N. Y. Diapers. Serial No. 589,642, Nov. 7. Class 39.

Detrex Corporation, Detroit, Mich. Metal cleaning and degreasing equipment. Serial No. 546,964, Nov. 7. Class 2.

De Witt, E. C., & Co., Inc., Chicago, Ill. Laxative and cathartic pills. Serial No. 558,284, Nov. 7. Class 18.

Dexter Company, The, Fairfield, Iowa. Domestic laundry appliances. Serial No. 597,821, Nov. 7. Class 24.

Diamond Expansion Bolt Company, Inc., Garwood, N. J. Bolt anchors and expansion shields. Serial No. 530,809, Nov. 7. Class 13.

Diamond Match Company, The, New York, N. Y. Floral sticks. Serial No. 589,649, Nov. 7. Class 50.

Doehler-Jarvis Corporation, New York, N. Y. Metal serving dish or platter. Serial No. 565,176, Nov. 7. Class 13.

Douglass, S. L., Exeter, Calif. Fresh grapes. Serial No. 571,412, Nov. 7. Class 46.

Dow Chemical Company, The, Midland, Mich. Fungicide. Serial No. 591,225, Nov. 7. Class 6.

Dow Chemical Company, The, Midland, Mich. Insecticide. Serial No. 591,226, Nov. 7. Class 6.

Drew, F., & Co., Inc., New York, N. Y. Emulsifying and whipping aid for ice cream compositions. Serial No. 534,420, Nov. 7. Class 46.

Duet Hosiery Corp., New York, N. Y. Hosiery. Serial No. 588,753, Nov. 7. Class 39.

Dumont, Allen B., Laboratories, Inc., Passaic, N. J. Radio and television program broadcasting service. Serial No. 592,137, Nov. 7. Class 104.

Du Pont, E. I. de Nemours and Company, Wilmington, Del. Normal decyl alcohol (n-decanol) or mixtures of this alcohol. Serial No. 584,975, Nov. 7. Class 6.

Du Pont, E. I. de Nemours and Company, Wilmington, Del. Methacrylato chromic chloride used as a bonding agent and adhesive. Serial No. 592,554, Nov. 7. Class 3.

Eastern Clay Products, Inc., Jackson, Ohio. Resilient sheet. Serial No. 572,956, Nov. 7. Class 23.

Electro-Therm, Inc., Silver Spring, Md. Immersion electric heaters. Serial No. 574,141, Nov. 7. Class 21.

Electro-Voice, Inc., Buchanan, Mich. Electric phonograph pick-up cartridge. Serial No. 584,664, Nov. 7. Class 21.

Empire Products, Inc., Cincinnati, Ohio. Electric floor polishers. Serial No. 592,019, Nov. 7. Class 21.

Farrington Manufacturing Company, Boston, and Jamaica Plain, Boston, Mass. Decorative or ornamental metal cases and boxes. Serial No. 581,182, Nov. 7. Class 2.

Fine Arts Sterling Silver Company, Philadelphia, Pa. Holders for children in the design of an elephant. Serial No. 591,671, Nov. 7. Class 50.

Fitch, F. W., Company, The, Des Moines, Iowa, assignor to The Grove Laboratories, Inc., St. Louis Mo. Hair tonic and a preparation for setting waves. Serial No. 573,413, Nov. 7. Class 51.

Flako Products Corporation, New Brunswick, N. J. Cookie mix. Serial No. 548,944, published Nov. 7. Class 46.

Flavin, Walter K., doing business as Super Sonic Materials, Charlestown, Mass. Metal piping and metal tubing. Serial No. 578,204, Nov. 7. Class 13.

Flour Mills of America, Inc., Kansas City Mo., doing business as Alva Roller Mills, Alva, Okla. Wheat flour. Serial No. 552,547, Nov. 7. Class 46.

Flower City Specialty Company, Rochester, N. Y. Repair links for tire chains. Serial No. 563,608, Nov. 7. Class 13.

Folding Products Mfg. Corp., New York, N. Y. Umbrellas. Serial No. 596,907, Nov. 7. Class 41.

Forest City Foundries Company, The, Cleveland, Ohio. Warm air furnaces. Serial No. 581,763, Nov. 7. Class 34.

Foster Trading Corporation, The, doing business as T. W. Samuels Distillery, Louisville, Ky. Whiskey. Serial No. 586,749, Nov. 7. Class 49.

Frahm, Russell A., doing business under the name "G-O Company," St. Louis, Mo. Mechanical agricultural spraying machine. Serial No. 592,347, Nov. 7. Class 23.

"G-O Company": *See*—
Frahm, Russell A.

Gamble-Skogmo, Inc., Minneapolis, Minn. Chemically treated wood cellulose. Serial No. 579,315, Nov. 7. Class 12.

Gaston Manufacturing Company: *See*—
Gaston, Raymond C.

Gaston, Raymond C., doing business as Gaston Manufacturing Company, Cincinnati, Ohio. Child's pull toys. Serial No. 584,862, Nov. 7. Class 22.

Gaylord Products, Incorporated, Chicago, Ill. Bobby pins and hairpins. Serial No. 570,103, Nov. 7. Class 40.

General Foods Corporation, New York, N. Y. Cocoa. Serial No. 586,091, Nov. 7. Class 46.

General Motors Corporation, Detroit, Mich. Radio receiving sets and controls thereof. Serial No. 592,203, Nov. 7. Class 21.

Germain Seed and Plant Company, Los Angeles, Calif. Paper tents. Serial No. 528,566, Nov. 7. Class 37.

Germaine Monteil Cosmetiques Corporation, New York, N. Y. Deodorant preparation. Serial No. 577,183, Nov. 7. Class 51.

Gigantic, S. A., Geneva, Switzerland. Lenses for optical purposes. Serial No. 538,397, Nov. 7. Class 26.

Ginsburg Mfg. Co. Inc., New York, N. Y. Ladies' slips, petticoats, blouses, polo shirts, etc. Serial No. 585,495, Nov. 7. Class 39.

Globe Mills, Inc.: *See*—
Lone Star Elevators.

Good-All Electric Manufacturing Company, Ogallala, Nebr. Electrically operated, transformer-type soldering machines. Serial No. 512,501, Nov. 7. Class 21.

Goodman, L., Bros. Co.: *See*—
Gordon-O'Neill Co.

Gordon-O'Neill Co., doing business as M. Goodman Bros. Co., Jersey City, N. J. Dried prune brandy. Serial No. 591,675, Nov. 7. Class 49.

Granat Bros., San Francisco, Calif. Articles of jewelry. Serial No. 592,807, Nov. 7. Class 28.

Granat Bros., San Francisco, Calif. Articles of jewelry. Serial No. 593,070, Nov. 7. Class 28.

Griscom Russell Company, The, New York, N. Y. Pipes and tubing. Serial No. 581,064, Nov. 7. Class 34.

Grosjean, C. E., Rice Milling Co., San Francisco, Calif. Rice. Serial No. 585,277, Nov. 7. Class 46.

Grove Laboratories, Inc., The: *See*—
Fitch, F. W., Company, The.

Grower-Shipper Potato Company, Monte Vista, Colo. Potatoes. Serial No. 561,236, Nov. 7. Class 46.

Guth, Edwin F., Company, The, St. Louis, Mo. Fluorescent lighting fixture. Serial No. 576,055, Nov. 7. Class 21.

Guth, Edwin F., Company, The, St. Louis, Mo. Fluorescent lighting fixtures. Serial No. 576,203, Nov. 7 Class 21.

Hamilton Industries, Chicago, Ill. Electric lamp shades. Serial No. 553,365, Nov. 7. Class 21.

Hamilton Ross Industries, Inc., Chicago, Ill. Electric lamps and electric lamps having electric clocks built into the same. Serial No. 572,358, Nov. 7. Class 21.

Harjax Products Corp., New York, N. Y. Garment bags. Serial No. 593,170, Nov. 7. Class 2.

Haspel Brothers, Inc., New Orleans, La. Men's clothing. Serial No. 542,731, Nov. 7. Class 39.

Hays Corporation, The, Michigan City, Ind. Resistance thermometer. Serial No. 563,118, Nov. 7. Class 26.

Hecht Company, The, Washington, D. C. Boys' clothing. Serial No. 552,389, Nov. 7. Class 39.

Heller Greenhouse Laboratories: *See*—
Jeller, Mary K.

Hellesens Enke & V. Ludvigsen A/S., Copenhagen, Denmark. Electrical storage or dry cell batteries and dry cells. Serial No. 588,122, Nov. 7. Class 21.

Hickey-Freeman Company, Rochester, N. Y. Men's topcoats and overcoats. Serial No. 538,911, Nov. 7. Class 39.

Hillman Periodicals, Inc., New York, N. Y. Comic magazine. Serial No. 587,384, Nov. 7. Class 38.

Hollandia Importing Company: *See*—
Van Der Eems, John.

Hollingsworth & Whitney Company, Boston, Mass. Bond, mimeograph and converting papers. Serial No. 580,593, Nov. 7. Class 37.

Holophane Company, Inc., New York, N. Y. Illumination equipment. Serial No. 562,995, Nov. 7. Class 34.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Barrel spray pumps. Serial No. 554,116, Nov. 7. Class 23.

Hudson Pulp and Paper Corp. New York, N. Y. Gummed tape and paper. Serial No. 577,189, Nov. 7. Class 5.

Hughes, Gale A., Los Angeles, Calif. Breast augmenting pads. Serial No. 592,705, Nov. 7. Class 40.

Hughes Tool Company, Houston, Tex. Tool joints. Serial No. 531,039, Nov. 7. Class 23.

Humphrey-Callander and Company, Clinton, Ill. Laundry dampening bags. Serial No. 589,723, Nov. 7. Class 2.

Hygrade Food Products Corporation, New York, N. Y. Bacon, frankfurters, ham, etc. Serial No. 546,303, Nov. 7. Class 46.

Ideal Roller and Manufacturing Company, Chicago, Ill. Yieldable surfaced rollers. Serial No. 572,567, Nov. 7. Class 23.

Industrial Metal Protectives, Inc., Wilmington, Del., and Dayton, Ohio. Anti-corrosive paints. Serial No. 517,059, Nov. 7. Class 16.

International Business Machines Corporation, New York, N. Y. Ribbons for typewriters and other office machines. Serial No. 588,691, Nov. 7. Class 11.

International Paper Company, New York, N. Y. Paper bags. Serial No. 592,632, Nov. 7. Class 5.

Ira Leather Goods Co., Inc., New York, N. Y. Handbags. Serial No. 597,684, Nov. 7. Class 3.

Isaly Dairy Company, Youngstown, Ohio. Chocolate coated sherbet bars. Serial No. 563,935, Nov. 7. Class 46.

Izetta Doll Manufacturing Company, Inc., San Francisco, Calif. Dolls. Serial No. 586,001, Nov. 7. Class 22.

Jeller, Mary K., doing business as Heller Greenhouse Laboratories, Colorado Springs, Colo. Fertilizer. Serial No. 574,509, Nov. 7. Class 10.

Jensen Manufacturing Company, Chicago, Ill. Loud speakers. Serial No. 591,369, Nov. 7. Class 21.

Jerrold Electronics Corporation, Philadelphia, Pa. Multiple antenna system. Serial No. 582,226, Nov. 7. Class 21.

Joyce-Cridland Co., The, Dayton, Ohio. Lifting mechanisms. Serial No. 552,662, Nov. 7. Class 23.

Kawneer Company, The, Niles, Mich. Store front assemblies, window assemblies, bulkheads, etc. Serial No. 559,845, Nov. 7. Class 12.

Kelly Photo Supply, Chicago, Ill. Photographic cameras, lenses and camera carrying cases. Serial No. 592,325, Nov. 7. Class 26.

Kemode Mfg. Co., Inc., New York, N. Y. Non-electrical soider irons. Serial No. 576,644, Nov. 7. Class 23.

Kennerly, H. B., & Son, Incorporated, Nanticoke, Md. Canned fish. Serial No. 586,975, Nov. 7. Class 46.

King Midas Flour Mills: *See*—
Van Dusen Harrington Co.

Koppers Company, Inc., Pittsburgh, Pa. Bituminous cement, tar-saturated fabric, asphalt and tar felt, etc. Serial No. 575,354, Nov. 7. Class 12.

Kotake Company, Limited, Honolulu, T. H. Playing cards. Serial No. 589,451, Nov. 7. Class 22.

Larkin, Daniel C., doing business under the assumed name of The Crest Company, Detroit, Mich. Automobile seat covers. Serial No. 592,710, Nov. 7. Class 19.

Leahy Manufacturing Co., Higginsville, Mo. Incubators and brooders. Serial No. 591,039, Nov. 7. Class 50.

Leather Products, Inc., Sheboygan, Wis. Horse boots, track harness, pacing hopples, etc. Serial No. 596,733, Nov. 7. Class 3.

Lederman Bros., Los Angeles, Calif. Sport topping, canopies and the like. Serial No. 553,720, Nov. 7. Class 42.

Lee Products Co., Inc., The, Cleveland, Ohio. Volatile liquid vaporizing attachment for electric vacuum cleaners. Serial No. 591,494, Nov. 7. Class 21.

Lees-Bradner Company, The, Cleveland, Ohio. Machine tools. Serial No. 581,600, Nov. 7. Class 23.

Lekas & Drivas, Inc., New York, N. Y. Olives, canned caviar, vinegar, anchovy paste, etc. Serial No. 581,814, Nov. 7. Class 46.

Levinsohn Textile Co., New York, N. Y. Tickings and ready-made pillow ticks. Serial No. 575,865, Nov. 7. Class 42.

Liden Company, The: *See*—
Conklin, Charles R.

Lone Star Elevators, Amarillo, Tex., assignee of Globe Mills, Inc. Wheat flour. Serial No. 561,007, Nov. 7. Class 46.

Lone Star Elevators, Amarillo, Tex., assignee of Globe Mills, Inc. Wheat flour. Serial No. 561,010, Nov. 7. Class 46.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections and liquid syrups or concentrates for making the same. Serial No. 580,070, Nov. 7. Class 46.

Magnavox Company, The, Fort Wayne, Ind. Television sets and parts thereof. Serial No. 562,944, Nov. 7. Class 21.

Manhattan Pickle Company, Chicago, Ill. Dill pickles, sweet pickles, kosher dill pickles, etc. Serial No. 589,662, Nov. 7. Class 46.

Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Toilet bowls and tanks, urinals, lavatories, etc. Serial No. 580,892, Nov. 7. Class 13.

Many, Blanc & Co., Inc., Chicago, Ill. Creme de menthe, curacao, aquavit, etc. Serial No. 587,340, Nov. 7. Class 49.

Marathon Company, Attleboro, Mass. Pyrophoric cigarette lighters. Serial No. 574,367, Nov. 7. Class 8.

Marine Fabricators Co., Perth Amboy, N. J. Fabrication to order of industrial steel products. Serial No. 589,793, Nov. 7. Class 106.

Mars Engineering & Mfg. Co., Burbank, Calif. Kitchen utensils. Serial No. 558,906, Nov. 7. Class 13.

Marsh, M., and Son, Wheeling, W. Va. Cigars and stogies. Serial No. 577,629, Nov. 7. Class 17.

McBee Company, The, Athens, Ohio. Machine for sorting notched cards. Serial No. 518,546, Nov. 7. Class 26.

McGovern, E. B., doing business as McGovern and McGovern, Seattle, Wash. Canned fish. Serial No. 554,684, Nov. 7. Class 46.

McGovern and McGovern: *See*—
McGovern, E. B.

McGraw Electric Company, The, doing business as Bussmann Manufacturing Company, Elgin, Ill., and St. Louis, Mo. Electric fuses and protectors. Serial No. 574,446, Nov. 7. Class 21.

Meadowbrook Candy Company, Moline, Ill. Candy. Serial No. 540,301, Nov. 7. Class 46.

Merritt and Andree, Chicago, Ill. Domestic washing machines, ironers, and driers. Serial No. 594,855, Nov. 7. Class 24.

Metal Arts Manufacturing Co., Inc., Atlanta, Ga. Metal window assemblies. Serial No. 541,561, Nov. 7. Class 12.

Metro Leather Products Company: *See*—
Spector, Theodore.

Meyer Chemical Company, Detroit, Mich. Preparation for the treatment of trichomonas vaginalis. Serial No. 592,647, Nov. 7. Class 18.

Meyer Chemical Company, Detroit, Mich. Preparation for the treatment of menopausal syndrone, etc. Serial No. 592,648, Nov. 7. Class 18.

Meyer Chemical Company, Detroit, Mich. Preparation for the treatment of anemias. Serial No. 592,649, Nov. 7. Class 18.

Meyer Chemical Company, Detroit, Mich. Preparation for the treatment of pernicious anemia, tropical and non-tropical sprue. Serial No. 592,650, Nov. 7. Class 18.

Meyer Chemical Company, Detroit, Mich. Preparation for the treatment of B complex deficiencies. Serial No. 592,651, Nov. 7. Class 18.

Meyer Jewelry Company, Kansas City, Mo. Jewelry. Serial No. 555,422, Nov. 7. Class 28.

Midland Shoe Corporation of New York, New York, N. Y. Shoes. Serial No. 545,751, Nov. 7. Class 39.

Milsek Chemical Co., Youngstown, Ohio. Polish preparation. Serial No. 589,459, Nov. 7. Class 4.

Milwaukee Lace Paper Company, Milwaukee, Wis. Paper doilies and place mats. Serial No. 585,598, Nov. 7. Class 37.

Mitten, Frank P., Redlands, Calif. Font assortments of letters and figures and illustrating accessories. Serial No. 590,232, Nov. 7. Class 50.

Monsanto Chemical Company, St. Louis, Mo. Organic and inorganic chemicals. Serial No. 554,911, Nov. 7. Class 6.

Moore, John Hudson, Inc., New York, N. Y. Kits containing toilet articles, etc. Serial No. 588,586, Nov. 7. Class 51.

Moore, John Hudson, Inc., New York, N. Y. Kits containing toilet articles. Serial Nos. 588,588–9, Nov. 7. Class 51.

Morton Engineering Co., Philadelphia, Pa. Time controlled electric switches, etc. Serial No. 551,297, Nov. 7. Class 21.

Mt. Vernon Milling Company: *See*—
Short, J. R., Milling Company.

Mueller Co., Decatur, Ill. Plumbing equipment and parts thereof. Serial No. 545,153, Nov. 7. Class 13.

Munter, Arch F., doing business under the name and style of The American Paulin System, Los Angeles, Calif. Altimeters and barometers. Serial No. 593,136, Nov. 7. Class 26.

National Milling Company: *See*—
Van Dusen Harrington Co.

National Silver Company, New York, N. Y. Stainless steel table cutlery. Serial No. 580,498, Nov. 7. Class 23.

National Silver Company, New York, N. Y. Silverplated flatware. Serial No. 592,512, Nov. 7. Class 28.

Nea Service, Inc., Cleveland, Ohio. Comic drawings. Serial No. 509,361, Nov. 7. Class 38.

Neatform Co., Inc., The, New York, N. Y. Foundation garments, corsets, and girdles. Serial No. 595,676, Nov. 7. Class 39.

Nita Studios: *See*—
Wilschke, Jennie E.

Norcross, Inc., New York, N. Y. Gift wrappings. Serial No. 579,287, Nov. 7. Class 37.

North Star Dairy Cooperative, St. Paul, Minn. Milk powders. Serial No. 564,211, Nov. 7. Class 46.

Norton Company, Worcester, Mass. Heat-refractory materials. Serial No. 572,267, Nov. 7. Class 12.

Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form for building purposes. Serial No. 579,447, Nov. 7. Class 12.

Owens-Illinois Glass Company, Toledo, Ohio. Towel bars. Serial No. 565,804, Nov. 7. Class 13.

Pacific Mops Products: *See*—
Smetts, Robert F.

Page-Madden Company, Inc., Mineola, N. Y. Guides, pulleys, eyes, etc. Serial No. 592,833, Nov. 7. Class 23.

Pantasote Co., The, assignee: *See*—
Pantasote Corporation of New Jersey, The.

Pantasote Corporation of New Jersey, The, assignor to The Pantasote Co., New York, N. Y. Plastic material. Serial No. 534,550, Nov. 7. Class 50.

Parry, William L., Glendale, Calif. Articles representing gifts of men's, women's wear such as suits, coats and slacks and distributed in connection with gift certificates. Serial No. 594,280, Nov. 7. Class 50.

Pass & Seymour, Inc., Syracuse, N. Y. Three wire range receptacles and similar heavy duty electrical power outlets. Serial No. 592,778, Nov. 7. Class 21.

Peau d'Or Sales Corporation, Miami, Fla. Sun tan cream and sun tan liquid. Serial No. 539,558, Nov. 7. Class 51.

Peavey Paper Mills, Inc., Ladysmith, Wis. Roll toilet tissue, paper towels, and napkins. Serial No. 579,553, Nov. 7. Class 37.

Pelkus, Leo C., doing business as Commonwealth Electric and Manufacturing Co., Boston, Mass. Steam generators. Serial No. 582,318, Nov. 7. Class 34.

Permanente Cement Company, Oakland, Calif. Portland cement. Serial No. 587,588, Nov. 7. Class 12.

Permanente Cement Company, Oakland, Calif. Portland cement and oil-well cement. Serial No. 587,589, Nov. 7. Class 12.

Permanente Cement Company, Oakland, Calif. Portland cement and oil-well cement. Serial No. 587,591, Nov. 7. Class 12.

Permo Incorporated, Chicago, Ill. Phonograph needles. Serial No. 559,426, Nov. 7. Class 36.

Pioneer Tool Company, Inc., Bloomfield, N. J. Bandage knives, burn-off knives, casing knives, etc. Serial Nos. 584,692–3, Nov. 7. Class 23.

Planters Nut & Chocolate Co., Wilkes-Barre, Pa. Salted peanuts. Serial No. 567,428, Nov. 7. Class 46.

Pond, A. H., Co. Inc., Syracuse, N. Y. Diamond rings, diamond wedding rings, and carved wedding rings. Serial No. 593,439, Nov. 7. Class 28.

Price Battery Corporation, Hamburg, Pa. Storage batteries. Serial No. 592,099, Nov. 7. Class 21.

Princess Eve Products Corporation, New York, N. Y. Lip stick cases, perfume flacons and toiletry bottles. Serial No. 567,535, Nov. 7. Class 2.

Priscilla Rug Products: *See*—
Citron, Samuel.

Pure Oil Company, The, Chicago, Ill. Automobile inner-tube cold patching cement; automobile gasket cement; etc. Serial No. 563,365, Nov. 7. Class 5.

Pyle-National Company, The, Chicago, Ill. Electrical apparatus. Serial No. 552,606, Nov. 7. Class 21.

Quick Charge, Inc., Oklahoma City, Okla. Electrically operated portable oil changer. Serial No. 565,963, Nov. 7. Class 23.

Ralston Purina Company, St. Louis, Mo. Fresh eggs. Serial No. 552,701, Nov. 7. Class 46.

Ralston Purina Company, St. Louis, Mo. Medicinal preparation. Serial No. 580,034, Nov. 7. Class 18.

Ray Oil Burner Co., assignor to Ray Oil Burner Co., San Francisco, Calif. Fuel control check valves; relief valves; anti-siphon valves, etc. Serial No. 561,769, Nov. 7. Class 13.

Raymond, Emery E., Jr., doing business as Raymond Ointment Company, Wilmington, Del. External ointment. Serial No. 566,267, Nov. 7. Class 18.

Raymond Ointment Company: *See*—
Raymond, Emery E., Jr.

Reuther's Sea Food Company, Inc., New Orleans, La. Canned oysters and canned shrimps. Serial No. 557,311, Nov. 7. Class 46.

Riegel Textile Corporation, New York, N. Y. Work gloves. Serial No. 571,746, Nov. 7. Class 39.

Robertson, Lynton H., New York, N. Y. Stirring rod. Serial No. 565,287, Nov. 7. Class 23.

Rockmont Envelope Co., Denver, Colo. Mailing and correspondence envelopes. Serial No. 585,684, Nov. 7. Class 37.

Rohm & Haas Company, Philadelphia, Pa. Enzyme products. Serial No. 590,703, Nov. 7. Class 6.

Rosemberger, Hermanos, Caracas, Venezuela. Costume jewelry. Serial No. 585,491, Nov. 7. Class 28.

S K F Industries, Inc., Philadelphia, Pa., and elsewhere. Journal boxes and closures and lids. Serial No. 529,097, Nov. 7. Class 19.

S. M. P. Co., Virginia, Minn. Salve for burns and skin irritations, etc. Serial No. 581,093, Nov. 7. Class 18.

Samuel, Howard H., Inc., Hackettstown, N. J. Power operated single and double surface planing machines, etc. Serial No. 585,081, Nov. 7. Class 23.

Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.

Sanford Hosiery Mills, Inc., Sanford, N. C. Ladies' hosiery. Serial No. 580,518, Nov. 7. Class 39.

Schaufelberger, Dr. W., & Co. Solis-Apparatus Manufactories, Zurich, Switzerland. Heating-carpets, heating pads, heating caps, etc. Serial No. 552,806, Nov. 7. Class 21.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. Serial No. 565,380, Nov. 7. Class 18.

Schneible, Claude B., Company, Detroit, Mich. Centrifugal pumps. Serial No. 548,534, Nov. 7. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Wrenches, pliers, chisels, etc. Serial No. 571,095, Nov. 7. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Christmas tree electric lighting outfits. Serial No. 591,257, Nov. 7. Class 21.

Sears, Roebuck and Co., Chicago, Ill. Corsets, girdles, foundation garments. Serial No. 595,159, Nov. 7. Class 39.

See Fabriks Aktiebolag, Sandviken, Sweden. Drawn and cold rolled metal tubular structural members and tube blanks. Serial No. 577,993, Nov. 7. Class 14.

Service Industries, Philadelphia, Pa. Aluminum asphalt protective and finishing coating composition. Serial No. 522,163, Nov. 7. Class 16.

Shaw, R. B., trading as **R. B. Shaw Co., Flint, Mich.** Paper bags. Serial No. 588,655, Nov. 7. Class 2.

Shaw, R. B., Co.: *See*—
Shaw, R. B.

Sheffield Bronze Paint Corporation, Cleveland, Ohio. Powdered detergent preparation. Serial No. 567,351, Nov. 7. Class 52.

Short, J. R., Milling Company, Chicago, Ill., doing business as **Mt. Vernon Milling Company, Mount Vernon, Ind.** Corn grits. Serial Nos. 572,333–4, Nov. 7. Class 46.

Skamperette Co., New York, N. Y. Ladies and children's underwear. Serial No. 579,519, Nov. 7. Class 39.

Smetts, Robert F., doing business as Pacific Mops Products, Oakland, Calif. Mops. Serial No. 583,826, Nov. 7. Class 29.

Smoked Pork Roll, Inc., Philadelphia, Pa. Smoked pork roll. Serial Nos. 552,172–3, Nov. 7. Class 46.

Soap Craft, Inc., Chicago, Ill. Toilet soap. Serial No. 514,227, Nov. 7. Class 52.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Periodical. Serial No. 586,022, Nov. 7. Class 38.

Solgar Corporation, New York, N. Y. Vitamin preparation. Serial No. 593,021, Nov. 7. Class 18.

Solnit, Ben, doing business as Solnit Shoe Co., Los Angeles, Calif. Women's shoes. Serial No. 537,748, Nov. 7. Class 39.

Solnit Shoe Co.: *See*—
Solnit, Ben.

Southern Foods Company, McAllen, Tex. Canned citrus juices. Serial No. 563,524, Nov. 7. Class 46.

Southworth Machine Company, Portland, Oreg. Machinery. Serial No. 551,745, Nov. 7. Class 23.

Special Milk Products, Inc., West Los Angeles, Calif. Vitamin preparation. Serial No. 579,841, Nov. 7. Class 18.

Special Milk Products, Inc., West Los Angeles, Calif. Vitamin C solution. Serial No. 579,842, Nov. 7. Class 18.

Spector, Theodore, doing business as Metro Leather Products Company, New York, N. Y. Leather watch straps. Serial No. 584,022, Nov. 7. Class 28.

Spiegel, Inc., Chicago, Ill. Tents. Serial No. 588,642, Nov. 7. Class 50.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Yarns. Serial No. 595,008, Nov. 7. Class 43.

Stadler, John, doing business as Universal Clip Company, Bridgeport, Conn. Automobile molding fastener assortment. Serial No. 581,037, Nov. 7. Class 13.

Steel City Manufacturing Company, The, Youngstown, Ohio. Electric automatic door controlling apparatus. Serial No. 588,816, Nov. 7. Class 21.

Stephens, Arthur I., Chicago, Ill. Hosiery. Serial No. 568,686, Nov. 7. Class 39.

Stetson Paint & Varnish Company, Chicago, Ill. Liquid glass paint. Serial No. 539,784, Nov. 7. Class 16.

Strathmore Paper Company, West Springfield, Mass. All kinds of writing and printing paper. Serial No. 552,343, Nov. 7. Class 37.

Strathmore Products, Inc., Syracuse, N. Y. Synthetic resinous coating. Serial No. 567,217, Nov. 7. Class 16.

Suffolk Oil Mill Inc., Suffolk, Va. Peanut oil. Serial No. 589,603, Nov. 7. Class 46.

Super-Sonic Materials: *See*—
Flavin, Walter K.

Swedlin, J., Inc., New York, N. Y. Dolls. Serial No. 585,960, Nov. 7. Class 22.

Tel-E Lect Products, Inc., Minneapolis, Minn. Pole hole diggers. Serial No. 581,779, Nov. 7. Class 23.

Texas Associated Laboratories, Inc., Abilene, Tex. Phenobarbital, etc. Serial No. 555,638, Nov. 7. Class 18.

Thompson, O. E., & Sons, Ypsilanti, Mich. Toy wagons and toy wheelbarrows. Serial No. 587,095, Nov. 7. Class 22.

Tillotson Manufacturing Company, The, Toledo, Ohio. Carburetors. Serial No. 519,425, Nov. 7. Class 23.

Timesaver Products Company, Seattle, Wash. Lapping compound. Serial No. 584,170, Nov. 7. Class 4.

Tobey Fine Papers Inc., St. Louis, Mo. Printing book paper. Serial Nos. 580,214–15, Nov. 7. Class 37.

Topps Chewing Gum, Incorporated, Brooklyn, N. Y. Chewing gum. Serial No. 534,839, Nov. 7. Class 46.

Troop Water Heater Company, Pittsburgh, Pa. Electric water heaters. Serial No. 572,613, Nov. 7. Class 21.

Truckstell Manufacturing Company, Cleveland, Ohio. Overdrive transmissions. Serial No. 565,089, Nov. 7. Class 23.

United Gilsonite Laboratories, Scranton, Pa. Chemical remover for paint. Serial No. 588,982, Nov. 7. Class 16.

United Metal Box Co., Inc., Brooklyn, N. Y. Clothes dryers. Serial Nos. 593,251–2, Nov. 7. Class 24.

U. S. Vitamin Corporation, New York, N. Y. Medicinal preparation. Serial No. 593,093, Nov. 7. Class 18.

Universal Clip Company: *See*—
Stadler, John.

Upson Company, The, Lockport, N. Y. Wall board. Serial No. 570,995, Nov. 7. Class 12.

Valentine & Company, Inc., New York, N. Y. Lacquer sealer. Serial No. 554,637, Nov. 7. Class 16.

Van Der Eems, John, doing business as Hollandia Importing Company, Hawthorne, N. J. Medicine for hyperacidity of the stomach. Serial No. 580,652, Nov. 7. Class 18.

Van Dusen Harrington Co., doing business under the name King Midas Flour Mills, Minneapolis, Minn. Wheat flour. Serial No. 547,796, Nov. 7. Class 46.

Van Dusen Harrington Co., doing business under the name National Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 547,798, Nov. 7. Class 46.

Vick Chemical Company, New York, N. Y. Cold tablets. Serial Nos. 591,130–1, Nov. 7. Class 18.

Victory Optical Manufacturing Co., Newark, N. J. Spectacle frames. Serial No. 593,452, Nov. 7. Class 26.

Visking Corporation, The, Chicago, Ill. Plastic casings and tubings. Serial No. 572,785, Nov. 7. Class 2.

Washburn Company, The, Worcester, Mass. Mechanical egg beaters and whips, spatulas, etc. Serial No. 575,170, Nov. 7. Class 23.

Weber and Heilbroner, Inc., New York, N. Y. Suits, topcoats, overcoats, etc. Serial No. 589,287, Nov. 7. Class 39.

Webster Electric Company, Racine, Wis. Pick-up tone arms. Serial No. 591,391, Nov. 7. Class 21.

Weinreich Brothers Company, New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. Serial No. 593,383, Nov. 7. Class 28.

Westinghouse Electric Corporation, East Pittsburgh, Pa., and Bloomfield, N. J. Fluorescent lamps. Serial No. 550,764, Nov. 7. Class 21.

Wilschke, Jennie E., doing business under the name Nita Studios, Cos Cob, Conn. Ceramic figures. Serial No. 588,539, Nov. 7. Class 50.

Windalume Corporation, West New York, N. J. Aluminum and other metal windows, window frames, etc. Serial No. 559,364, Nov. 7. Class 12.

Wohl, L., & Company, Incorporated, New York, N. Y. Children's dresses, playsuits, blouses and pinafores. Serial No. 595,024, Nov. 7. Class 39.

Woodman Company, Inc., The, Avondale Estates, Ga. Anti-oxidant containing alkyl gallate and ascorbic acid. Serial No. 575,385, Nov. 7. Class 46.

Woolworth, F. W., Co., New York, N. Y. Hosiery. Serial No. 589,494, Nov. 7. Class 39.

World Editions, Inc., New York, N. Y. Periodical publications. Serial No. 588,349, Nov. 7. Class 38.

Yorkville Craftsmen, Inc., New York, N. Y. Gift, novelty and household wares. Serial No. 561,789, Nov. 7. Class 13.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial No. 575,239, Nov. 7. Class 21.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial No. 576,730, Nov. 7. Class 21.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial No. 576,733, Nov. 7. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Academy Electrical Products Corp., New York, N. Y. Electrical connectors. 533,086, Nov. 7; Serial No. 570,936, published Aug. 15, 1950. Class 21.

Acme Cement Plaster Company, St. Louis, Mo., by Certain-teed Products Corporation, Ardmore, Pa. Plaster, cement, calcimine, and cement-plaster. 34,685, May 22, 1900. Republished Nov. 7. Class 12.

Ajax Iron Works, Corry, Pa. Drilling engines, engine pumps, and parts used in the oil and gas industry; gas engines, etc. 444,302, Nov. 7; Serial No. 520,597, published June 6, 1950. Class 23.

Aktiebolaget Marabou, Sundbyberg, Sweden. Chocolate candies or an assortment thereof. 533,088, Nov. 7; Serial No. 571,033, published June 20, 1950. Class 46.

Albina Engine & Machine Works, Inc., Portland, Oreg. Scaffold supporting brackets. 533,156, Nov. 7; Serial No. 581,154, published Aug. 1, 1950. Class 23.

Alexander, John, of New Haven, Incorporated, New Haven, Conn. Men's jackets. 429,000, Apr. 15, 1947. Republished Nov. 7. Class 39.

Allied Chemical & Dye Corporation, New York, N. Y. Organic esters of alcohols and organic carboxylic acids, and mixtures thereof. 533,155, Nov. 7; Serial No. 580,964, published Aug. 1, 1950. Class 6.

Allied Fruit & Extract Co., Inc., New York, N. Y. Non-alcoholic maltless syrups, extracts and fruit syrups. 533,083, Nov. 7; Serial No. 570,400, published Aug. 1, 1950. Class 45.

American Alcolac Corporation, New York, N. Y. Mouth and teeth treating preparations. 533,194, Nov. 7; Serial No. 584,376, published Aug. 8, 1950. Class 18.

American Engineering Steel & Tool Co.: *See*—
Karlsen, Eugene S.

American Gas Association, Inc., New York, N. Y. Assemblies of kitchen equipment. 533,272, Nov. 7; Serial No. 546,539. Class 34.

American Lumberman, The, by The American Lumberman, Inc., Chicago, Ill. Weekly periodical publication. 159,253, Sept. 26, 1922. Republished Nov. 7. Class 38.

American Lumberman, Inc., The: *See*—
American Lumberman, The.

American Safety Razor Corporation, Brooklyn, N. Y. Safety razor blades. 533,126, Nov. 7; Serial No. 577,248, published June 27, 1950. Class 23.

American Snuff Company, Memphis, Tenn. Snuff. 533,051, Nov. 7; Serial No. 557,651, published Apr. 4, 1950. Class 17.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Magnet wire. 533,199, Nov. 7; Serial No. 585,555, published Aug. 8, 1950. Class 21.

American Television, Inc., Chicago, Ill. Cathode ray tubes. 533,172, Nov. 7; Serial No. 582,591, published Aug. 15, 1950. Class 21.

Anthony Macaroni & Cracker Co., Los Angeles, Calif. Macaroni, spaghetti, spaghettini, and egg fusilli. 533,016, Nov. 7; Serial No. 534,971, published June 13, 1950. Class 46.

Apex Products Corporation: *See*—
Clean Home Products Corporation.

Archer-Daniels-Midland Company: *See*—
Commander Milling Company.
Northland Milling Company.

Ar, Winarick, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 275,460, Sept. 23, 1930. Republished Nov. 7. Classes 6, 18, 51, and 52.

Archer-Daniels-Midland Company, Minneapolis, Minn. Feeds for poultry and animals. 533,072, Nov. 7; Serial No. 569,037, published June 20, 1950. Class 46.

Archer-Daniels-Midland Company, Minneapolis, Minn. Poultry feeds. 533,073, Nov. 7; Serial No. 569,039, published June 20, 1950. Class 46.

Arcweld Manufacturing Company, Inc., Seattle, Wash. Coal, oil, wood, and gas furnaces and furnace bodies. 273,388, renewed Aug. 5, 1950. O. G. Nov. 7. Class 34.

Argus Chemical Laboratory, Inc., Brooklyn, N. Y. Organic plasticizer. 533,099, Nov. 7; Serial No. 573,603, published Aug. 1, 1950. Class 6.

Ark Laboratory: *See*—
Newar, Jack C.

Armour and Company, Chicago, Ill. Soap and liquid synthetic detergent. 533,074, Nov. 7; Serial No. 569,043, published Aug. 8, 1950. Class 52.

Arrowhead Rubber Company, Vernon, Calif. Spark plug cover. 533,112, Nov. 7; Serial No. 575,747, published Aug. 15, 1950. Class 21.

Associated Press, The, New York, N. Y. Daily publications. 271,966–8, June 24, 1930. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Series of cartoons. 289,405, Nov. 24, 1931. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Newspaper articles. 294,403, May 24, 1932. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Newspaper cartoons. 308,419, Dec. 5, 1933. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Series of cartoons. 383,442, Dec. 10, 1940. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Series of cartoons. 383,446–7, Dec. 10, 1940. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Comic strip or panel. 400,199, Feb. 16, 1943. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. News stories and news photographs. 401,258, May 4, 1943. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. News stories and news photographs. 411,547, Jan. 23, 1945. Republished Nov. 7. Class 38.

Associated Press, The, New York, N. Y. Series of cartoons. 432,616, Sept. 9, 1947. Republished Nov. 7. Class 38.

Atlantic Steel Company, Atlanta, Ga. Forgings. 436,224, Jan. 27, 1948. Disclaimed. O. G. Nov. 7. Class 14.

Atmos Products Co., The: *See*—
Stammelman, Mortimer J.

Atomic Blade Co., Knoxville, Tenn. Razor blades. 533,171, Nov. 7; Serial No. 582,554, published June 27, 1950. Class 23.

Attorney General of the United States: *See*—
Lingner, Karl A.

Atwood Machine Company, The, Stonington, Conn., to Universal Winding Company, Cranston, R. I. Spinning and twisting spindles. 279,457–60, renewed Jan. 13, 1951. O. G. Nov. 7. Class 23.

Avery Adhesive Label Corp., Monrovia, Calif. Label dispensers. 533,163, Nov. 7; Serial No. 581,852, published Aug. 8, 1950. Class 23.

Babson Bros. Co., Chicago, Ill. Electrically operated cream separators. 532,998, Nov. 7; Serial No. 520,438, published Aug. 15, 1950. Class 21.

Baumritter, T., Co. Inc., New York, N. Y. Beds; bunk beds; kitchen, dining room, and living room chairs, etc. 532,997, Nov. 7; Serial No. 511,786, published July 18, 1950. Class 32.

Baxter Laboratories, Inc., Morton Grové, Ill. Nasal catheters, stomach tubes, rectal tubes, etc. 533,197, Nov. 7; Serial No. 585,509, published Aug. 15, 1950. Class 44.

Beaver Company, The, Buffalo, N. Y., by **Certain-teed Products Corporation, Ardmore, Pa.** Prepared sheet roofing, roofing tiles, shingles, and roofing cements. 132,626, June 29, 1920. Republished Nov. 7. Class 12.

Beaver Products Company, Inc., The, Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Prepared roofing. 195,989, Mar. 10, 1925. Republished Nov. 7. Class 12.

Beaver Products Company, Inc., The, Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Finishing plaster. 199,923, June 23, 1925. Republished Nov. 7. Class 12.

Beaver Products Company, Inc., The, Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Plaster. 199,924, June 23, 1925. Republished Nov. 7. Class 12.

Beaver Products Company, Inc., The, Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Wall board. 208,991, Feb. 16, 1926. Republished Nov. 7. Class 12.

Beaver Products Company, Inc., The, Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Fiber wall board, gypsum board, gypsum plaster, etc. 221,037, Nov. 23, 1926. Republished Nov. 7. Class 12.

Belmont, Edgar, doing business as County Specialties, Port Chester, N. Y. Blade attachments. 533,146, Nov. 7; Serial No. 580,280, published Aug. 15, 1950. Class 19.

Berman, Benjamin, doing business as Stonhard Company, to Stonhard Company, Philadelphia, Pa. Asphalt-coated stone. 275,144, renewed Sept. 16, 1950. O. G. Nov. 7. Class 12.

Berman, Benjamin, doing business as Stonhard Company, to Stonhard Company, Philadelphia, Pa. Liquid mixture as a hardener, tightener, waterproofing, etc. 275,145, renewed Sept. 16, 1950. O. G. Nov. 7. Class 12.

Bienaime, Inc.: *See*—
Societe Anonyme, Bienaime.

Binney & Smith Company, New York, N. Y. Non-inflammable and permanent paint. 533,196, Nov. 7; Serial No. 583,364, published Aug. 8, 1950. Class 16.

Black & Decker Manufacturing Company, The, Towson, Md. Portable electric drills and parts thereof, portable electric valve grinders, portable electric screw, bolt and nut drivers, etc. 276,878, Oct. 28, 1930. Republished Nov. 7. Class 21.

Bloomingdale Bros., Inc., New York, N. Y., by Federated Department Stores, Inc., Cincinnati, Ohio. Men's suits, coats, trousers, etc. 274,565, Sept. 2, 1930. Republished Nov. 7. Class 39.

Blue Bird Mfg. Co.: *See*—
Russell, Rae W.

Böhm, Brüder, Vienna, Austria. Hair, wool, or velour felts and felts of other material. 270,926, renewed May 20, 1950. O. G. Nov. 7. Class 50.

Botany Mills, Inc.: *See*—
Botany Worsted Mills.

Botany Worsted Mills, by Botany Mills, Inc., Passaic, N. J. Neckties. 343,598, Feb. 23, 1937. Republished Nov. 7. Class 39.

Botany Worsted Mills, by Botany Mills, Inc., Passaic, N. J. Lanolin and lanolin toilet preparations. 409,028, Sept. 12, 1944. Republished Nov. 7. Classes 6 and 51.

Bound Brook Oil-Less Bearing Company, Bound Brook, N. J. Machinery bearings, bushings, etc. 533,049, Nov. 7; Serial No. 555,893, published Aug. 8, 1950. Class 23.

Bowman, A. Smith, Distillery, The: *See*—
Bowman, A. Smith, & Sons, Incorporated.

Bowman, A. Smith, & Sons, Incorporated, doing business as The A. Smith Bowman Distillery, Sunset Hills, Va. Whiskey. 533,183, Nov. 7; Serial No. 583,517, published July 4, 1950. Class 49.

Bridges, Clyde L., doing business as Tropical Beverage Company, Dallas, Tex. Non-alcoholic, non-cereal, maltless beverage. 533,265, Nov. 7; Serial No. 586,517. Class 45.

Burgess Battery Company, Freeport and Chicago, Ill., assignor to Burgess Vibrocrafters, Inc., Lake Zurich, Ill. Vulture, portable electric hand manipulable sprayers. 532,162, Nov. 7; Serial No. 581,797, published Aug. 8, 1950. Class 21.

Burgess Vibrocrafters, Inc.: *See*—
Burgess Battery Company.

Byer-Rolnick Company, to Resistol Hats, Inc., Dallas, Tex. Men's hats. 526,196, June 13, 1950. New certificate. O. G. Nov. 7. Class 39.

C C Manufacturing Co., Chicago, Ill. Cleansing powder. 533,075, Nov. 7; Serial No. 569,080, published Aug. 8, 1950. Class 4.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Fertilizers. 533,271, Nov. 7; Serial No. 594,693. Class 10.

Cambridge Rubber Company, The: *See*—
Cambridge Rubber Company.

Cambridge Rubber Company, Cambridge, Mass., by The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md. Shoes, soles, and heels. 368,002, June 6, 1939. Republished Nov. 7. Class 39.

Camp, Wm. A., Co., Inc., New York, N. Y. Nuts in the shell. 533,014, Nov. 7; Serial No. 533,989, published June 20, 1950. Class 46.

Cannon Shoe Company, by Cannon Shoe Company, Baltimore, Md. Leather shoes. 318,081, Oct. 16, 1934. Republished Nov. 7. Class 39.

Caravetta Foods Co.: *See*—
Ravioli, Florence, Company.

Carlson, David F., doing business as The Imlstone Company, Gobles, Mich. Concrete wall facing material. 533,116, Nov. 7; Serial No. 576,249, published July 4, 1950. Class 12.

Carrier Corporation, Syracuse, N. Y. Finned tubing employed in condensers, evaporators, etc. 533,250, Nov. 7; Serial No. 567,682. Class 34.

Castell, Jane C., assignor to Wood Cosmetics, Inc., New York, N. Y. Combination product which polishes, cleans, restores and preserves furniture. 533,157, Nov. 7; Serial No. 581,322, published July 4, 1950. Class 4.

Catz American Co., Inc., New York, N. Y. Canned pineapple. 533,017, Nov. 7; Serial No. 535,681, published June 20, 1950. Class 46.

Cavanagh, John, Ltd., to Hat Corporation of America, Norwalk, Conn. Hatboxes, hat trunks, etc. 270,983, May 20, 1930. New certificate. O. G. Nov. 7. Class 3.

Central Chemical Corporation, Hagerstown, Md. Insecticides and agricultural fungicides. 533,102, Nov. 7; Serial No. 574,016, published Aug. 1, 1950. Class 6.

Central Paint & Varnish Works, Inc., Brooklyn, N. Y. Insecticides. 444,304, Nov. 7; Serial No. 523,369, published Aug. 8, 1950. Class 6.

Certain-teed Products Corporation: *See*—
Acme Cement Plaster Company.
Beaver Company, The.
General Roofing Manufacturing Company.
Kalite Company, Limited.
Vulcanite Roofing Company, The.

Certain-teed Products Corporation, Ardmore, Pa. Dental plaster and surgical plaster of Paris. 199,755, June 16, 1925. Republished Nov. 7. Class 44.

Certain-teed Products Corporation, Admore, Pa. Protective siding for building, walls, etc. 281,086, Mar. 10, 1931. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Plaster of calcined gypsum. 314,572, July 3, 1934. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Composition wall boards, gypsum wall boards and gypsum lath, etc. 343,676, Mar. 2, 1937. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Gypsum wallboard and gypsum lath. 371,297, Sept. 19, 1939. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Gypsum plasters. 382,197, Oct. 22, 1940. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Sheets of felted fibrous material. 390,563, Sept. 30, 1941. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Sheets of felted fibrous material. 390,565, Sept. 30, 1941. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Sheet roofing material of felt base. 401,960, June 22, 1943. Republished Nov. 7. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Dental plaster of Paris. 417,292, Oct. 23, 1945. Republished Nov. 7. Class 44.

Certain-teed Products Corporation, Ardmore, Pa. Dental plaster of Paris. 417,600, Nov. 6, 1945. Republished Nov. 7. Class 44.

Certain-teed Products Corporation, Ardmore, Pa. Cements. 429,972, June 3, 1947. Republished Nov. 7. Class 12.

Chalfont Hosiery Mills, Chalfont, Pa. Full-fashioned silk hosiery. 277,751, Nov. 25, 1930. Republished Nov. 7. Class 39.

Chemical Service Company: *See*—
Chemical Service of Baltimore.

Chemical Service of Baltimore, doing business as The Chemical Service Company, Baltimore, Md. Liquid non-alkaline cleaning preparation. 444,303, Nov. 7; Serial No. 521,433, published Dec. 9, 1947. Class 52.

Christina, Vincent & Company, Inc., New York, N. Y. Medicinal preparation. 533,084, Nov. 7; Serial No. 570,770, published Aug. 8, 1950. Class 18.

Churchill, Cadwallader W., doing business as Pacific Coast Pumice Company, Bishop, Calif. Acoustical pumice. 532,995, Nov. 7; Serial No. 506,983, published July 25, 1950. Class 12.

Civic Club of Allegheny County, The, Pittsburgh, Pa. Pamphlets. 533,201, Nov. 7; Serial No. 585,631, published Aug. 8, 1950. Class 38.

Clark, R. E., Milling Company: *See*—
Clark, Robert E.

Clark, Robert E., doing business as R. E. Clark Milling Company, Chillicothe, Ohio. Wheat flour. 277,910, renewed Dec. 2, 1950. O. G. Nov. 7. Class 46.

Claronex Products, Inc., Brooklyn, N. Y. Aluminum paints. 533,177, Nov. 7; Serial No. 582,821, published Aug. 8, 1950. Class 16.

Clean Home Products Corporation, assignor to Apex Products Corporation, to Clean Home Products Inc., Chicago, Ill. Deodorant. 276,630, renewed Oct. 21, 1950. O. G. Nov. 7. Class 6.

Clean Home Products Inc.: *See*—
Clean Home Products Corporation.

Cleveland Builders Supply Company, The, Cleveland, Ohio. Mill mixed wall plaster preparations. 533,063, Nov. 7; Serial No. 566,450, published July 18, 1950. Class 12.

Climax Engine & Pump Manufacturing Co.: *See*—
Liberty Products Mfg. Co. Inc.

Clover Farm Stores Corporation, Cleveland, Ohio. Floor wax. 533,043, Nov. 7; Serial No. 533,078, published Aug. 8, 1950. Class 16.

Cobbs Company, The, Little River (Miami), Fla. Non-alcoholic, non-cereal, maltless beverages. 532,240, Nov. 7; Serial No. 548,931. Class 45.

Coble, John L.: *See*—
Harbison-Walker Refractories Company.

Coffey-Cummins Manufacturing Company, Pasadena, Calif. Power-driven counterbores. 533,218, Nov. 7; Serial No. 592,760, published Aug. 1, 1950. Class 23.

College of Electronic Medicine, Blanche & Jeanne R. Abrams Memorial Foundation, by Electronic Medical Foundation, San Francisco, Calif. Diagnostic tuning devices. 369,590, Aug. 1, 1939. Republished Nov. 7. Class 44.

Collins & Aikman Co., by Collins & Aikman Corporation, Philadelphia, Pa. Cotton, mohair, ramie, etc., plushes, velours and velvets in the piece. 88,061, Aug. 27, 1912. Republished Nov. 7. Class 42.

Collins & Aikman Company, by Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics. 218,549–50, Sept. 28, 1926. Republished Nov. 7. Class 42.

Collins & Aikman Corporation: *See*—
Collins & Aikman Co.

Collins & Aikman Corporation, Philadelphia, Pa. Woolen fabrics. 308,734, Dec. 19, 1933. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics. 365,779, Mar. 21, 1939. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Cotton pile fabrics. 374,152, Jan. 2, 1940. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Cotton pile fabrics. 378,362, June 4, 1940. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics. 393,796, Mar 3, 1942. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Worsted fabrics. 396,027, June 23, 1942. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Worsted fabrics. 397,445, Sept. 8, 1942. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Cotton duck fabrics. 397,447, Sept. 8, 1942. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Worsted fabrics. 401,149, Apr. 27, 1943. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Blended fabrics. 401,150, Apr. 27, 1943. Republished Nov. 7. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Worsted fabrics. 401,151, Apr. 27, 1943. Republished Nov. 7. Class 42.

Comet Rice Mills: *See*—
Seaboard Rice Milling Co.

Commander Milling Company, by Archer-Daniels-Midland Company, Minneapolis, Minn. Wheat flour. 273,456, Aug. 5, 1930. Republished Nov. 7. Class 46.

Commanditaire Vennootschap Pento Cosmetic, Amsterdam, Holland. Perfume; preparations for cleansing the teeth; brilliantine, etc. 533,038, Nov. 7; Serial No. 550,123, published Nov. 15, 1949. Class 51.

Conkey, H. D., & Company, Mendota, Ill. Overhead traveling cranes, jib cranes, I-beam trolleys, and hand chain hoists. 533,055, Nov. 7; Serial No. 562,543, published Aug. 8, 1950. Class 23.

Consolidated Flour Mills Company, The, Wichita, Kans. Wheat flour. 533,190, Nov. 7; Serial No. 584,038, published June 20, 1950. Class 46.

Continental Motors Corporation, Detroit and Muskegon, Mich. Internal combustion engine, mechanical power plants, mechanical driving units, etc. 533,076, Nov. 7; Serial No. 569,824, published Aug. 8, 1950. Class 23.

Conveyor Specialty Company, Walpole, assignor to Conveyor Specialty Company, Inc., Quincy, Mass. Belt conveyors. 444,301, Nov. 7; Serial No. 518,457, published June 6, 1950. Class 23.

Conveyor Specialty Company, Inc.: *See*—
Conveyor Specialty Company.

Cork Insulation Co., Inc., New York, N. Y. Cork board, cork pipe covering, cork machinery insulation, etc. 277,830, renewed Nov. 25, 1950. O. G. Nov. 7. Class 12.

Cork Insulation Co., Inc., New York, N. Y. Cork-covering paint and cork-covering brine putty. 279,282, renewed Jan. 13, 1951. O. G. Nov. 7. Class 16.

Corporacion Argentina de Productores de Carnes, New York, N. Y. Canned corned beef, canned corned beef hash, canned roast beef. 533,147, Nov. 7; Serial No. 580,288, published June 20, 1950. Class 46.

County Specialties: *See*—
Belmont, Edgar.

Coviello, Vincent F., doing business as Vincove Winery, Montclair, N. J. Wines. 533,235, Nov. 7; Serial No. 534,754. Class 47.

Crown Controls Company, Inc., New Bremen, Ohio. Antenna rotators. 533,198, Nov. 7; Serial No. 585,516, published Aug. 15, 1950. Class 21.

Cumberland Portland Cement Co., Inc., Chattanooga, Tenn. Portland cement. 533,067, Nov. 7; Serial No. 568,085, published July 18, 1950. Class 12.

Curtis Companies Incorporated, Clinton, Iowa. Ventilating storm sash. 533,036, Nov. 7; Serial No. 549,365, published July 18, 1950. Class 12.

Curtis 1000, Incorporated, St. Paul, Minn, and Hartford, Conn. Correspondence envelopes. 444,029, June 13, 1950. Republished Nov. 7. Class 37.

D & D Company, Fort Dodge, Iowa. Flexible covering together with a frame support therefor. 533,065, Nov. 7; Serial No. 567,566, published June 27, 1950. Class 23.

Daggett & Ramsdell, Inc., Newark, N. J. Perfumes and toilet waters. 533,170, Nov. 7; Serial No. 582,521, published July 25, 1950. Class 51.

DanD Products Company, Chicago, Ill. Spatulas. 533,096, Nov. 7; Serial No. 572,727, published June 6, 1950. Class 23.

Danielson, Gideon R., Geneva, Ill. Containers. 533,225, Nov. 7; Serial No. 494,394. Class 2.

D'Aoust, Eleanor M., Philadelphia, Pa. Cleansing cream, steam pack cream, astringent and skin tone cream. 533,143, Nov. 7; Serial No. 580,014, published July 25, 1950. Class 51.

Delpark, Incorporated: *See*—
Delpark, Inc.
Parker, Bedell.

Delpark, Inc., to Delpark, Incorporated, Newark, N. J. Dress shirts, negligee shirts, vest for outer wear, etc. 278,448, renewed Dec. 16, 1950. O. G. Nov. 7. Class 39.

Del Russo, J., Inc., New York, N. Y. Lipstick, powder, powder base, etc. 533,114, Nov. 7; Serial No. 575,976, published July 25, 1950. Class 51.

Desitin Chemical Co., Providence, R. I. Medical compound. 533,178, Nov. 7; Serial No. 582,952, published Aug. 8, 1950. Class 18.

De Vilbiss Company, The, Toledo, Ohio. Spraying equipment, parts, and accessories therefor. 533,019, Nov. 7; Serial No. 537,432, published June 27, 1950. Class 23.

Dickinson, Becton, and Company, East Rutherford, N. J. Surgical elastic stockings. 533,210, Nov. 7; Serial No. 588,157, published Aug. 1, 1950. Class 44.

Dixie Cup Company: *See*—
Individual Drinking Cup Co., Inc.

Dixie Cup Company, Chicago, Ill. Paper cups. 420,379, Apr. 9, 1946. Republished Nov. 7. Class 2.

Dixie Cup Company, Chicago, Ill. Paper cups. 424,535, Oct. 8, 1946. Republished Nov. 7. Class 2.

Door Candies: *See*—
Flanagan, John M.

Dougherty, William E., Philadelphia, Pa. Pneumatic tools. 533,077, Nov. 7; Serial No. 569,967, published Aug. 8, 1950. Class 23.

Douglass, Earl L., Germantown, Philadelphia, Pa. Continuing series of publications. 356,551, May 3, 1938. Republished Nov. 7. Class 38.

Dun & Bradstreet, Inc., New York, N. Y. Magazines, leaflets, etc. 508,817, Apr. 19, 1949. Corrected. O. G. Nov. 7. Class 38.

Dunn and McCarthy, Inc., Auburn, N. Y. Leather shoes. 271,984, renewed June 24, 1950. O. G. Nov. 7. Class 39.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Urea-formaldehyde or modified urea-formaldehyde compositions. 533,136, Nov. 7; Serial No. 578,681, published Aug. 1, 1950. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemical mixture. 533,211, Nov. 7; Serial No. 588,292, published Aug. 8, 1950. Class 6.

E-Cut Knitting Mills, by E-Cut Knitting Mills, Royersford, Pa., assignor to E-Cut Knitting Mills, Inc. Infants' and children's knitted underwear. 396,207, June 30, 1942. Republished Nov. 7. Class 39.

E-Cut Knitting Mills, Inc., assignee: *See*—
E-Cut Knitting Mills.

Eastern Corporation, Bangor, Maine. Chemical mixture. 533,048, Nov. 7; Serial No. 555,660, published July 18, 1950. Class 6.

Eastern States Farmers' Exchange, West Springfield, Mass. Field and garden seeds and seed potatoes; grit, etc. 533,041, Nov. 7; Serial No. 551,257, published June 27, 1950. Class 1.

Eaton Manufacturing Company, Cleveland, Ohio. Lock washers. 533,255, Nov. 7; Serial No. 574,957. Class 13.

Electric Auto-Lite Company, The, Toledo, Ohio. Clutches. 533,184, Nov. 7; Serial No. 583,644, published Aug 1, 1950. Class 23.

Electronic Medical Foundation: *See*—
College of Electronic Medicine, Blanche & Jeanne R. Abrams Memorial Foundation.

Elysee Cosmetic Manufacturing Co., San Francisco, Calif. Skin cream. 444,299, Nov. 7; Serial No. 511,269, published July 4, 1950. Class 51.

Empire Silk Company, Paterson, N. J., by I. Schneierson & Sons, Inc., New York, N. Y. Silk piece goods, artificial silks, etc. 345,926, May 11, 1937. Republished Nov. 7. Class 42.

England, Robert, trading as James Good Co., Philadelphia, Pa. Chemical preparation. 533,209, Nov. 7; Serial No. 587,796, published Aug. 8, 1950. Class 6.

Erwin, Frank R., doing business under the firm name of Tempe Laboratories, Deerfield, Ill. Hair tonics. 533,098, Nov. 7; Serial No. 573,367, published July 4, 1950. Class 51.

Esquire Custom Seat Cover Co.: *See*— Harnish, Phares.

Eston Chemicals, Inc., Los Angeles, Calif. Room deodorants. 533,145, Nov. 7; Serial No. 580,233, published June 27, 1950. Class 6.

Eveready Brikshaw Company, Chicago, Ill. Power driven apparatus for cutting and shaping articles. 533,259, Nov. 7; Serial No. 577,783. Class 23.

Excel Automatic Products, Inc., Newark, N. J. Hand manipulated pyrophoric cigarette lighters. 533,229, Nov. 7; Serial No. 518,213. Class 8.

Exmet Electrical Corporation, New York, N. Y. Electrical resistors. 533,141, Nov. 7; Serial No. 579,077, published Aug. 1, 1950. Class 21.

Farino, Frank G., doing business as Leading Lady Brassiere Company, Cleveland, Ohio. Brassières. 533,227, Nov. 7; Serial No. 510,582. Class 39.

Fashion Park, Inc., Rochester, N. Y. Men's topcoats and overcoats. 533,239, Nov. 7; Serial No. 544,560. Class 39.

Federated Department Stores, Inc.: *See*— Bloomingdale Bros., Inc.

Firestone Tire & Rubber Company, The: *See*— Graff, H. R., Company.

Firth Sterling Steel & Carbide Corp.: *See*— Firth-Sterling Steel Company.

Firth-Sterling Steel Company, by Firth Sterling Steel & Carbide Corp., McKeesport, Pa. Steel bars, forgings, and blocks, etc. 271,644, June 17, 1930. Republished Nov. 7. Class 14.

Firth-Sterling Steel Company, by Firth Sterling Steel & Carbide Corp., McKeesport, Pa. Tools. 273,077, July 22, 1930. Republished Nov. 7. Class 23.

Fisher Governor Company, Marshalltown, Iowa. Motor actuated inner diaphragm valves. 533,023, Nov. 7; Serial No. 538,899, published Aug. 8, 1950. Class 23.

Flanagan, John M., doing business as Dorr Candies, Sioux City, Iowa. Candies. 533,233, Nov. 7; Serial No. 525,073. Class 46.

Fleming Brothers, Chicago, Ill. Veterinary medicines. 533,089, Nov. 7; Serial No. 571,129, published July 25, 1950. Class 18.

Fuller Company, Catasauqua, Pa. Air activated gravity conveyors, and parts and accessories therefor. 533,150, Nov. 7; Serial No. 580,404, published June 6, 1950. Class 23.

Gaddy, R. L., Pharmacist: *See*— Gaddy, Robert L.

Gaddy, Robert L., doing business as R. L. Gaddy, Pharmacist, Jacksonville, Fla. Medicinal preparation. 533,087, Nov. 7; Serial No. 571,025, published Aug. 1, 1950. Class 18.

Gardner Wire Co., Chicago, Ill. Weather strips. 533,042, Nov. 7; Serial No. 551,885, published July 18, 1950. Class 12.

General Finance Corporation: *See*— Liberty Products Mfg. Co. Inc.

General Mills, Inc., Minneapolis, Minn. Wheat flour. 275,828, renewed Sept. 30, 1950. O. G. Nov. 7. Class 46.

General Roofing Manufacturing Company, East St. Louis, Ill., by Certain-teed Products Corporation, Ardmore, Pa. Roofing-felt, deadening-felt, building-paper, and roofing-paper. 87,202, July 2, 1912. Republished Nov. 7. Class 12.

General Roofing Manufacturing Company, East St. Louis, Ill., by Certain-teed Products Corporation, Ardmore, Pa. Prepared roofing, roofing felts, deadening felts, etc. 103,781, Apr. 13, 1915. Republished Nov. 7. Class 12.

Genseke Brothers: *See*— Genseke, Herbert J.

Genseke, Herbert J., doing business as Genseke Brothers, Chicago, Ill. Liquid preparations for providing a glossy and non-drag surface to natural, synthetic, and reclaimed rubber. 533,186, Nov. 7; Serial No. 583,686, published Aug. 8, 1950. Class 6.

Giesler, J. R., & Associates, Los Angeles, Calif. Pop corn vending machines. 533,193, Nov. 7; Serial No. 584,195, published July 18, 1950. Class 23.

Gliron Products Company, Cleveland, Ohio. Rust proofing compositions. 533,207, Nov. 7; Serial No. 586,852, published Aug. 8, 1950. Class 6.

Givaudan-Delawanna, Inc., New York, N. Y. Odoriferous material. 533,080, Nov. 7; Serial No. 570,251, published Aug. 1, 1950. Class 6.

Gleason Works, Rochester, N. Y. Gear cutting tools and blades therefor. 533,026, Nov. 7; Serial No. 540,349, published Aug. 8, 1950. Class 23.

Glemby Company, Inc., The, New York, N. Y. Hair nets. 526,318, June 13, 1950. Corrected. O. G. Nov. 7. Class 39.

Golden Star Polish Manufacturing Company, Kansas City, Mo. Dust mops and dusters. 533,032, Nov. 7; Serial No. 545,246, published Nov. 8, 1949. Class 29.

Golden State Company, Ltd., San Francisco, Calif. Spray process powdered whole milk. 533,021, Nov. 7; Serial No. 538,402, published June 20, 1950. Class 46.

Golden State Company, Ltd., San Francisco, Calif. Spray process nonfat dry milk solids. 533,022, Nov. 7; Serial No. 538,405, published June 20, 1950. Class 46.

Good, James, Co.: *See*— England, Robert.

Gould's Pumps, Incorporated, Seneca Falls, N. Y. Double acting piston pumps. 533,085, Nov. 7; Serial No. 570,850, published Aug. 1, 1950. Class 23.

Governor and Company of Adventurers of England Trading into Hudson's Bay, The, trading as Hudson's Bay Company, London, England. Blankets. 274,403, renewed Aug. 26, 1950. O. G. Nov. 7. Class 42.

Graff, H. R., Company, New York, N. Y., assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio. Vinyl copolymers. 533,012, Nov. 7; Serial No. 533,303, published Nov. 15, 1949. Class 6.

Grass, I. J., Noodle Co., Inc., Chicago, Ill. Noodles, vegetable noodle soup mixture, and noodle soup mixture with chicken fat. 533,118, Nov. 7; Serial No. 576,490, published June 6, 1950. Class 46.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Cereal breakfast food. 533,001, Nov. 7; Serial No. 527,373, published June 13, 1950. Class 46.

Great Lakes Steel Corporation, Ecorse, Detroit, Mich. Ready-mixed paint. 533,119, Nov. 7; Serial No. 576,693, published Aug. 8, 1950. Class 16.

Green Giant Company: *See*— Minnesota Valley Canning Company.

Griffin Manufacturing Company, Inc., New York, to Griffin Manufacturing Company, Inc., Brooklyn, N. Y. Cleaning materials and cleaning fluids; etc. 279,625, renewed Jan. 20, 1951. O. G. Nov. 7. Class 4.

Grove, Howard S., Los Angeles, Calif. Perfume, cologne, lipstick, etc. 533,090, Nov. 7; Serial No. 571,533, published July 18, 1950. Class 51.

Gundlach, G. P., & Co., Inc.: *See*— Gundlach, George P.

Gundlach, George P., by G. P. Gundlach & Co., Inc., Cincinnati, Ohio. Ice cream. 411,309, Jan. 9, 1945. Republished Nov. 7. Class 46.

Gunn Furniture Company, The, by The Gunn Furniture Company (1934), Grand Rapids, Mich. Counters, cafeteria tables, office tables, etc. 177,564, Dec. 18, 1923. Republished Nov. 7. Class 32.

Gunn Furniture Company (1934), The: *See*— Gunn Furniture Company, The.

Hager, C., & Sons Hinge Mfg. Co., St. Louis, Mo. Door hinges. 533,251, Nov. 7; Serial No. 567,909. Class 13.

Hamm, Theo., Brewing Co., St. Paul, Minn. Beer. 533,200, Nov. 7; Serial No. 585,587, published Aug. 1, 1950. Class 48.

Harbison-Walker Refractories Company, Pittsburgh, by J. L. Coble, Aliquippa, Pa. Powder insulation for tops of ingot molds. 390,925, Oct. 14, 1941. Republished Nov. 7. Class 1.

Harnish, Phares, doing business as Esquire Custom Seat Cover Co., Wyandotte, Mich. Automobile seat covers. 533,015, Nov. 7; Serial No. 534,018, published May 11, 1948. Class 39.

Harrison Paint and Varnish Company, The, Canton, Ohio. Self sealing flat wall paint. 533,050, Nov. 7; Serial No. 556,886, published Aug. 8, 1950. Class 16.

Harrison Wholesale Company, Chicago, Ill. Storage batteries. 533,044, Nov. 7; Serial No. 553,107, published Aug. 15, 1950. Class 21.

Harter Packing Company, Yuba City, Calif. Canned fruits. 279,633–5, renewed Jan. 20, 1951. O. G. Nov. 7. Class 46.

Harwick, Hollywood, Calif. Container for packages of cigarettes. 533,168, Nov. 7; Serial No. 582,475, published Aug. 1, 1950. Class 8.

Hat Corporation of America: *See*— Cavanagh, John, Ltd.
Knox Hat Company, Inc.

Hawthorn Baker Limited, Dunstable, England. Printers' tools and equipment. 533,035, Nov. 7; Serial No. 547,452, published July 18, 1950. Class 23.

Heinemann Electric Company, Trenton, N. J. Electric panel boards and electric circuit breakers. 533,053, Nov. 7; Serial No. 561,466, published June 13, 1950. Class 21.

Hessler, Silas A., trading as Scott Detergents, Philadelphia, Pa. Dishwashing compound. 533,081, Nov. 7; Serial No. 570,253, published Aug. 8, 1950. Class 52.

Heywood-Wakefield Company, Gardner, Mass. Furniture. 533,025, Nov. 7; Serial No. 540,010, published July 11, 1950. Class 32.

Hickok Manufacturing Co. Inc., Rochester, N. Y. Men's garters or hose supporters. 279,668, renewed Jan. 20, 1951. O. G. Nov. 7. Class 39.

Higley Chemical Company, Dubuque, Iowa. Inhibited acid. 533,078, Nov. 7; Serial No. 569,972, published Aug. 8, 1950. Class 52.

Hillside Ranch, Lemon Grove, Calif. Fresh vegetables. 533,161, Nov. 7; Serial No. 581,767, published June 20, 1950. Class 46.

Hogan and Hogan, Andover, Mass. Candy. 533,236, Nov. 7; Serial No. 538,280. Class 46.

Hollister, Lloyd, Inc., Glenview, Ill. Periodical. 533,205, Nov. 7; Serial No. 585,999, published Aug. 8, 1950. Class 38.

Hooker Electrochemical Company, Niagara Falls, N. Y. Acetyl chloride, ammonium benzoate, allylchlorformate, etc. 533,188, Nov. 7; Serial No. 583,799, published Aug. 1, 1950. Class 6.

Hotchkiss, E. H., Company, The, Norwalk, Conn. Stapling machines. 533,133, Nov. 7; Serial No. 578,021, published June 27, 1950. Class 23.

House Beautiful Curtains, Inc., New York, N. Y. Window curtains. 533,261, Nov. 7; Serial No. 579,190. Class 42.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Sprayers and dusters. 533,179, Nov. 7; Serial No. 583,261, published Aug. 8, 1950. Class 23.

Hudson's Bay Company: *See*— Governor and Company of Adventurers of England Trading into Hudson's Bay, The.

Hunt, Philip A., Company, Brooklyn, N. Y. Acid hardening fixing powder. 533,206, Nov. 7; Serial No. 586,694, published Aug. 8, 1950. Class 6.

Hunter-Wilson Distilling Co., Inc.: *See*— Wilson Distilling Co. Inc.

Hydroponic Chemical Company, Inc., Copley, Ohio. Plant food. 373,639, Dec. 12, 1939. Republished Nov. 7. Class 10.

I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breakers, switchgear, relays, bus runs, etc. 533,091–2, Nov. 7; Serial Nos. 571,970–1, published Aug. 15, 1950. Class 21.

Imlstone Company, The: *See*— Carlson, David F.

Individual Drinking Cup Co. Inc., New York, N. Y., by Dixie Cup Company, Chicago, Ill. Drinking cups, cartons, etc. 120,264, Jan. 29, 1918. Republished Nov. 7. Class 2.

Individual Drinking Cup Co., Inc., Easton, Pa., by Dixie Cup Company, Chicago, Ill. Paper drinking cups and paper cups, etc. 223,766, Feb. 8, 1927. Republished Nov. 7. Class 2.

Industrial Supply Company, Inc., Salt Lake City, Utah. Portable hand fire extinguishers, saws, knives, etc. 268,302, renewed Mar. 11, 1950. O. G. Nov. 7. Class 23.

Interchemical Corporation, New York, N. Y. Transparent and colored baking enamels. 533,100, Nov. 7; Serial No. 573,774, published Aug. 8, 1950. Class 16.

Interchemical Corporation, New York, N. Y. Printing ink. 533,173, Nov. 7; Serial No. 582,625, published Aug. 8, 1950. Class 11.

International Association of Lions Clubs, The, Chicago, Ill. Periodical. 274,148, renewed Aug. 19, 1950. O. G. Nov. 7. Class 38.

International Electric Co., Chicago, Ill. Electrical apparatus. 533,000, Nov. 7; Serial No. 527,176, published July 6, 1948. Class 21.

Jeffreys Laboratories, Incorporated, Salem, Va. Bacterial enzyme material. 444,300, Nov. 7; Serial No. 517,725, published Feb. 10, 1948. Class 6.

Jensen, Georg, Inc., New York, N. Y. Clocks, watches, and watches and attached watch bracelets. 528,176, Aug. 1, 1950. Corrected. O. G. Nov. 7. Class 27.

Jensen, Georg, Inc., New York, N. Y. Flatware, hollowware, etc. 528,177, Aug. 1, 1950. Corrected. O. G. Nov. 7. Class 28.

Jobbers Supply Company, Inc., Kansas City, Mo. Water pumps, water pump repair kits, valves, etc. 533,231, Nov. 7; Serial No. 521,451. Class 23.

Johnson, J. Oliver, Seed Company, Chicago, Ill. Grass seed. 533,024, Nov. 7; Serial No. 539,880, published July 11, 1950. Class 1.

Kaiser Aluminum & Chemical Corporation: *See*— Permanente Metals Corporation, The.

Kalite Company, Limited, Pasadena, Calif., by Certain-teed Products Corporation, Ardmore, Pa. Acoustical plaster. 283,243, May 17, 1931. Republished Nov. 7. Class 12.

Karlsen, Eugene S., doing business under the name and style of American Engineering Steel & Tool Co., Chicago, Ill. Tool bits. 533,013, Nov. 7; Serial No. 533,318, published Aug. 8, 1950. Class 23.

Karstrom, Paul L., Co., Chicago, Ill. Packaging machinery. 533,232, Nov. 7; Serial No. 522,598. Class 23.

Kay Manufacturing Corporation, Brooklyn, N. Y. Metal glides. 533,152, Nov. 7; Serial No. 580,885, published Aug. 8, 1950. Class 13.

Keefe, Edward F., doing business as Linacre Laboratories, New York, N. Y. Body temperature thermometers. 533,128, Nov. 7; Serial No. 577,480, published July 25, 1950. Class 44.

Kelley, Ethel R., doing business as Texacado Company, Mercedes, Tex. Fresh avocados. 533,046, Nov. 7; Serial No. 553,712, published June 20, 1950. Class 46.

Kelling Nut Co., The, Chicago, Ill. Display case. 533,009, Nov. 7; Serial No. 531,610, published July 11, 1950. Class 32.

Kenley, Joan, Inc., New York, N. Y. Ladies' and misses' blouses. 533,241, Nov. 7; Serial No. 550,519. Class 39.

Kenley, Joan, Inc., New York, N. Y. Women's and misses' blouses. 533,268, Nov. 7; Serial No. 590,270. Class 39.

Kent Productions, Inc., Grand Rapids, Mich. Lithographed trays and coasters. 533,266, Nov. 7; Serial No. 587,111. Class 2.

King, Maurice, doing business as King Products Company, assignor to King Research, Inc., by King Research, Inc., Brooklyn, N. Y. Chemical detergents and soaps. 433,967, Nov. 4, 1947. Republished Nov. 7. Class 52.

King Products Company: *See*— King, Maurice.

King Research, Inc.: *See*— King, Maurice.

Kisco Company, Inc., St. Louis, Mo. Deflector type air circulators. 533,195, Nov. 7; Serial No. 584,626, published Aug. 8, 1950. Class 21.

Knox Hat Company, Inc., to Hat Corporation of America, Norwalk, Conn. Hats for men. 280,532, Feb. 17, 1931. New certificate. O. G. Nov. 7. Class 39.

Korday Sportswear, Inc., New York, N. Y. Women's, misses', and girls' slacks, blouses, and skirts. 404,924, Dec. 28, 1943. Republished Nov. 7. Class 39.

Laclede-Christy Company, St. Louis, Mo. Refractory tiles and bricks. 533,103, Nov. 7; Serial No. 574,627, published July 4, 1950. Class 12.

La Resista Corset Company, The, Bridgeport, Conn. Corsets, corselets, girdles, etc. 533,228, Nov. 7; Serial No. 512,428. Class 39.

Leading Lady Brassiere Company: *See*— Farino, Frank G.

Lebedeff, Leon V., doing business as Parfums de Leon, Los Angeles, Calif. Perfumes and colognes. 533,149, Nov. 7; Serial No. 580,369, published July 25, 1950. Class 51.

Lewellen Manufacturing Company, Columbus, Ind. Variable speed transmissions, variable speed motor pulleys, etc. 533,008, Nov. 7; Serial No. 531,491, published Aug. 8, 1950. Class 23.

Lewis Invisible Stitch Machine Co., St. Louis, Mo. Blindstitch sewing machines, needles therefor and pinking attachments for sewing machines. 533,040, Nov. 7; Serial No. 551,180, published Aug. 8, 1950. Class 23.

Liberty Products Mfg. Co. Inc., Kansas City, Mo., assignee of General Finance Corporation, assignor, by mesne assignments, to Climax Engine & Pump Manufacturing Co. Water pumps, water systems, and accessories therefor. 532,994, Nov. 7; Serial No. 494,670, published July 18, 1950. Class 23.

Liebmann Breweries, Inc., Brooklyn, N. Y. Fermented malt beverages. 533,121, Nov. 7; Serial No. 577,198, published July 11, 1950. Class 48.

Liebmann Breweries, Inc., Brooklyn, N. Y. Fermented malt beverages. 533,122–4, Nov. 7; Serial Nos. 577,199–01, published July 11, 1950. Class 48.

Linacre Laboratories: *See*— Keefe, Edward F.

Lingner, Karl A., Dresden, Germany, vested in Attorney General of the United States, Washington, D. C., and re-renewed to him. Solid soap, liquid soap, and powdered soap. 79,133, re-renewed Aug. 9, 1950. O. G. Nov. 7. Class 52.

Lion Manufacturing Corporation, Chicago, Ill. Beverage mixing, dispensing, and vending machines. 533,204, Nov. 7; Serial No. 585,946, published Aug. 8, 1950. Class 23.

Lion Specialty Co., Chicago, Ill. Candies and peanut products. 533,007, Nov. 7; Serial No. 531,341, published June 27, 1950. Class 46.

Louisville Cement Company, Louisville, Ky. Masonry cement. 533,189, Nov. 7; Serial No. 584,009, published July 11, 1950. Class 12.

Luber-Finer Incorporated, Los Angeles, Calif. Replaceable filter packs. 443,980, May 16, 1950. Republished Nov. 7. Class 31.

Luchsinger's Handelsgesellschaft Amsterdam Filiale Zuerich, Zurich, Switzerland. Hand knitting apparatus. 533,191, Nov. 7; Serial No. 584,142, published Aug. 8, 1950. Class 23.

Lummus Cotton Gin Co., Columbus, Ga. Component part of a cotton gin. 533,260, Nov. 7; Serial No. 577,970. Class 23.

MacFee, Vernon R., Doster, Mich. Fertilizer distributors. 533,125, Nov. 7; Serial No. 577,203, published Aug. 8, 1950. Class 23.

Macklanburg-Duncan Company, by Macklanburg-Duncan Company (1948), Oklahoma City, Okla. Fibrous and metal weather strip and automatic door bottoms. 357,048, May 24, 1938. Republished Nov. 7. Class 12.

Macklanburg-Duncan Company, by Macklanburg-Duncan Company (1948), Oklahoma City, Okla. Fibrous and metal weather strip, metal molding, and automatic door bottoms. 361,509, Oct. 18, 1938. Republished Nov. 7. Class 12.

Macklanburg-Duncan Company (1948): *See*— Macklanburg-Duncan Company.

Magnavox Company, The, Fort Wayne, Ind. Unitary electrically operated combination apparatus for the synchronous transmission or reproduction of light and sound effects. 438,641, May 11, 1948. Republished Nov. 7. Class 26.

Maple Leaf Milling Company Limited, Toronto, Ontario, Canada. Grain products. 268,633, Mar. 18, 1930. Republished Nov. 7. Class 46.

Marta Cigar Co., New York, N. Y. Cigars. 533,244, Nov. 7; Serial No. 561,208. Class 17.

Master Appliance Mfg. Co., Racine, Wis. Electric fans. 444,297, Nov. 7; Serial No. 509,156, published May 17, 1949. Class 21.

Master Appliance Mfg. Co., Racine, Wis. Hand tool embodying an electric motor. 533,082, Nov. 7; Serial No. 570,368, published Aug. 15, 1950. Class 21.

Mauser Mill Company, Treichlers, Pa. Wheat flour. 533,004, Nov. 7; Serial No. 530,412, published June 27, 1950. Class 46.

Mayco Company, The, Kennett, Mo. Plant thinning attachment. 533,132, Nov. 7; Serial No. 577,974, published Aug. 8, 1950. Class 23.

Mayer, Oscar, & Co., Inc., Chicago, Ill. Tankage and meat scraps. 533,224, Nov. 7; Serial No. 478,402. Class 46.

McBride & Hall, Orange, Calif. Hair rinse and conditioner. 444,307, Nov. 7; Serial No. 525,314, published Feb. 8, 1949. Class 51.

McCrory Stores Corporation, New York, N. Y. Cutlery. 533,070, Nov. 7; Serial No. 568,744, published Aug. 1, 1950. Class 23.

Meyer, Geo. J., Manufacturing Co., Cudahy, Wis. Machines adapted to pre-mix syrup and carbonated water preparatory to bottling. 533,245, Nov. 7; Serial No. 563,206. Class 23.

Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing presses. 527,084, July 4, 1950. Corrected. O. G. Nov. 7. Class 23.

Miller Brewing Company, Milwaukee, Wis. Beer. 533,165, Nov. 7; Serial No. 582,091, published July 18, 1950. Class 48.

Minnesota Linseed Oil Paint Co., Minneapolis, Minn., now by change of name Minnesota Paints, Inc. Enamel paint. 533,002, Nov. 7; Serial No. 527,672, published Aug. 8, 1950. Class 16.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. 533,115, Nov. 7; Serial No. 576,126, published Aug. 8, 1950. Class 4.

Minnesota Paints, Inc.: *See*—
Minnesota Linseed Oil Paint Co.

Minnesota Valley Canning Company, Le Sueur, Minn., now by change of name Green Giant Company. Canned vegetables. 533,059, Nov. 7; Serial No. 564,821, published June 20, 1950. Class 46.

Moore-McCormack Lines, Inc., New York, N. Y. Water transportation. 533,219, Nov. 7; Serial No. 536,275, published June 21, 1949. Class 105.

Moran Towing Corporation, New York, N. Y. Marine towing and transportation services. 533,220, Nov. 7; Serial No. 554,803, published Sept. 13, 1949. Class 105.

Morgan Brothers Company, Pittsburgh, Pa. Mortar boxes, pans of sheet metal. 533,256, Nov. 7; Serial No. 575,073. Class 2.

Morton Manufacturing Company, Chicago, Ill. Electric garbage disposal units. 533,253, Nov. 7; Serial No. 572,370. Class 21.

Morton Salt Company, Chicago, Ill. Salt. 533,027, Nov. 7; Serial No. 540,697, published June 27, 1950. Class 46.

Moyer, H. L., Company, Inc., Bloomsburg, Pa. Chemical preparation. 533,137, Nov. 7; Serial No. 579,343, published Aug. 8, 1950. Class 18.

Mumm, G. H., & Co., Société Vinicole de Champagne Succ., Paris, France, assignor to G. H. Mumm & Co. (Societe Vinicole de Champagne Successors) of New York Inc., New York, N. Y. Champagne. 533,243, Nov. 7; Serial No. 568,577. Class 47.

Mumm, G. H., & Co. (Societe Vinicole de Champagne Successors) of New York Inc.: *See*—
Mumm, G. H., & Co., Société Vinicole de Champagne Succ.

Myers, F. E., & Bro. Company, Ashland, Ohio. Hand- and power-operated reciprocating, deep-well and shallow-well pumps, etc. 527,640, July 18, 1950. Corrected. O. G. Nov. 7. Class 23.

N. V. Kristal-, Glas-en Aardewerkfabrieken 'de Sphinx" Voorheen Petrus Regout & Co., Maastricht, Netherlands. Tiles. 276,487, Oct. 21, 1930. Republished Nov. 7. Class 12.

National Jewelry & Importing Co., Winnipeg, Manitoba, Canada. Pyrophoric cigarette lighters and flints. 444,296, Nov. 7; Serial No. 496,039, published Aug. 1, 1950. Class 8.

National Metal Products Co.: *See*—
Sorrenti, Alfred.

Nestle Le Mur Company, The, Meriden, Conn. Hair bleach. 533,037, Nov. 7; Serial No. 549,568, published July 25, 1950. Class 51.

Newar, Jack C., doing business as Ark Laboratory, Chicago, Ill. Thermoplastic enamel. 444,305, Nov. 7; Serial No. 523,428, published Aug. 8, 1950. Class 16.

Newton, Paul D., & Co. Inc., Newark, N. Y. Bath oil and cologne. 533,175, Nov. 7; Serial No. 582,695, published July 25, 1950. Class 51.

New York Times Company, by Wide World Photos, Inc., New York, N. Y. Photographs and reprints thereof. 133,475, July 27, 1920. Republished Nov. 7. Class 38.

Nicholas & Co., Incorporated Importers, to Sherry Wine & Spirits Co., Inc., New York, N. Y. Blended Scotch whiskey. 395,369, May 19, 1942. New certificate. O. G. Nov. 7. Class 49.

North Brothers Manufacturing Company, Philadelphia, Pa. Screw drivers and handles. 533,020, Nov. 7; Serial No. 537,477, published Mar. 21, 1950. Class 23.

Northland Milling Company, by Archer-Daniels-Midland Company, Minneapolis, Minn. Wheat flour. 271,383, June 3, 1930. Republished Nov. 7. Class 46.

Ohio Seamless Tube Company, The, Shelby, Ohio. Seamless steel tubing. 533,105, Nov. 7; Serial No. 574,855, published Aug. 8, 1950. Class 13.

Ojai Orange Association, Ojai, Calif. Fresh citrus fruits. 533,031, Nov. 7; Serial No. 545,027, published June 27, 1950. Class 46.

Orkil, Incorporated, East Hartford and Higganum, Conn. Agricultural implements. 533,214, Nov. 7; Serial No. 568,703, published July 18, 1950. Class 23.

Owens Brush Company, Toledo, Ohio. Toothbrushes. 533,269, Nov. 7; Serial No. 590,635. Class 29.

Pacific Coast Pumice Company: *See*—
Churchill, Cadwallader W.

Packard Motor Car Company, Detroit, Mich. Antifreeze solution, radiator cleaning and flushing compounds, sludge and carbon removing compounds, etc. 533,079, Nov. 7; Serial No. 570,116, published Aug. 8, 1950. Class 52.

Palmer, G. E., Co., Inc., Detroit, Mich. Preparation for cleaning and polishing glass, nickel, chrome, etc., surfaces. 533,060, Nov. 7; Serial No. 564,892, published Aug. 8, 1950. Class 4.

Parfums de Leon: *See*—
Leoedeft, Leon V.

Parke, Davis & Company, Detroit, Mich. Analgesics, anti-anemics, anti-biotics, etc. 533,130, Nov. 7; Serial No. 577,681, published Aug. 8, 1950. Class 18.

Parke, Davis & Company, Detroit, Mich. Anticonvulsant preparation. 533,159, Nov. 7; Serial No. 581,680, published July 25, 1950. Class 18.

Parker, Bedell, New York, N. Y., to Delpark Incorporated, Newark, N. J. Cotton, woolen, linen and silk piece goods. 80,374, re-renewed Dec. 13, 1950. O. G. Nov. 7. Class 42.

Parr Electric Co., Inc., Newark, N. J. Electrical friction tape and splicing compound. 533,093, Nov. 7; Serial No. 572,052, published Aug. 8, 1950. Class 21.

Paxson Machine Company, Salem, Ohio. Strip steel slitters. 533,270, Nov. 7; Serial No. 591,636. Class 23.

Pendergast, T. J., Wholesale Liquor Co., Inc., Kansas City, Mo. Whiskey, gin, rum, etc. 533,029, Nov. 7; Serial No. 541,741, published Aug. 1, 1950. Class 49.

Perfex Company, The, Shenandoah, Iowa. Soapless detergent. 528,912, Aug. 8, 1950. Corrected. O. G. Nov. 7. Class 52.

Permanente Metals Corporation, The, Oakland, Calif., now by change of name Kaiser Aluminum & Chemical Corporation. Hydrated lime, hydrated dolomite, and phosphatic fertilizers. 533,242, Nov. 7; Serial No. 551,581. Class 10.

Petersen Oven Company, The, Franklin Park, Ill. Apparatus for mechanically removing bread and like food stuffs from pans. 533,094, Nov. 7; Serial No. 572,268, published June 6, 1950. Class 23.

Peterson Products Corporation, Chicago, Ill. Sectional belt conveyors. 533,144, Nov. 7; Serial No. 580,144, published Aug. 8, 1950. Class 23.

Pharmaceuticals, Inc., Los Angeles, Calif. Preparation used in the treatment of trench mouth, etc. 533,107, Nov. 7; Serial No. 575,087, published Aug. 8, 1950. Class 18.

Pharma-Craft Corporation, The, New York, N. Y. Personal deodorants. 533,117, Nov. 7; Serial No. 576,281, published July 4, 1950. Class 51.

Phillips, Ed., & Sons Co., Minneapolis, Minn. Whiskey. 533,047, Nov. 7; Serial No. 553,899, published Aug. 1, 1950. Class 49.

Phillips Petroleum Company, Bartlesville, Okla. Storage batteries, battery cables, automobile fuses, etc. 533,110, Nov. 7; Serial No. 575,427, published Aug. 15, 1950. Class 21.

Phoenix Products Company, Milwaukee, Wis. Electric flood lamps. 533,142, Nov. 7; Serial No. 579,708, published July 25, 1950. Class 21.

Photochart, Hollywood, Calif. Photographic prints. 533,104, Nov. 7; Serial No. 574,726, published Aug. 8, 1950. Class 38.

Pidgeon-Thomas Iron Company, Memphis, Tenn. Overhead travelling cranes, monorails, and hoists. 533,153, Nov. 7; Serial No. 580,946, published Aug. 1, 1950. Class 23.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Fungicide. 533,212, Nov. 7; Serial No. 588,386, published Aug. 8, 1950. Class 6.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Insecticide. 533,213, Nov. 7; Serial No. 588,387, published Aug. 8, 1950. Class 6.

Plasticize Laboratories: *See*—
Smith, Nervin P.

Polk Miller Products Corporation, Richmond, Va. Dry cleaner powder preparation, etc. 533,069, Nov. 7; Serial No. 568,274, published July 18, 1950. Class 52.

Polk Miller Products Corporation, Richmond, Va. Expectorant medicine; eyewash; etc. 533,071, Nov. 7; Serial No. 568,862, published July 18, 1950. Class 52.

Preston-Shaffer Milling Company, Walla Walla, Wash., doing business as Western Milling Company, Pendleton, Oreg. Wheat flour. 533,061, Nov. 7; Serial No. 564,963, published June 20, 1950. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Dentifrice, hairdressing, and cosmetic cream. 533,129, Nov. 7; Serial No. 577,557, published July 4, 1950. Class 51.

Pyke Mfg. Co., Salt Lake City, Utah. Work shirts, overalls, pants, etc. 278,604, renewed Dec. 23, 1950. O. G. Nov. 7. Class 39.

Qualtop Beverages, Inc., Rochester, N. Y. Malt beverages. 533,166, Nov. 7; Serial No. 582,401, published Aug. 1, 1950. Class 48.

Radio Corporation of America, New York, N. Y. Beverage bottle uncaser and washer loader. 533,217, Nov. 7; Serial No. 590,760, published Aug. 8, 1950. Class 23.

Ravioli, Florence, Company, to Caravetta Foods Co., Chicago, Ill. Ravioli. 266,709, renewed Jan. 28, 1950. O. G. Nov. 7. Class 46.

Rebbeck, Ruth B., Paterson, N. J. Salve. 533,056, Nov. 7; Serial No. 562,806, published July 25, 1950. Class 18.

Rector Trading Corporation, New York, N. Y. Sewing machines. 533,262, Nov. 7; Serial No. 571,080. Class 23.

Reflectal Corporation, New York, N. Y. Paper with metal foil. 533,187, Nov. 7; Serial No. 583,775, published July 11, 1950. Class 12.

Resistol Hats, Inc.: *See*—
Byer-Rolnick Company.

Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y., to Riegel Paper Corporation, New York, N. Y. Transparent wrapping paper. 277,895, renewed Dec. 2, 1950. O. G. Nov. 7. Class 37.

Rimmeir, Paul, assignee: *See*—
Smith, Nervin P.

Rochester Dairy Cooperative, Rochester, Minn. Evaporated milk. 533,174, Nov. 7; Serial No. 582,649, published June 20, 1950. Class 46.

Rochester Germicide Company, Rochester, N. Y. Powdered soaps. 533,068, Nov. 7; Serial No. 568,216, published Aug. 8, 1950. Class 52.

Rock-Tred Corporation, Chicago, Ill. Mastic asphaltic floor patching material. 533,005, Nov. 7; Serial No. 530,569, published July 25, 1950. Class 12.

Rogers Imports Inc., New York, N. Y. Pipes, cigar holders, cigarette holders, etc. 532,992, Nov. 7; Serial No. 489,686, published Aug. 8, 1950. Class 8.

Rogers Imports Inc., New York, N. Y. Pipes, cigar holders, cigarette holders, etc. 532,993, Nov. 7; Serial No. 489,689, published Aug. 8, 1950. Class 8.

Roma Wine Company: *See*—
Schenley Distillers Corporation.

Ronda, Charlotte, doing business as Ronda Creations, New York, N. Y. Doll. 533,230, Nov. 7; Serial No. 520,350. Class 22.

Ronda Creations: *See*—
Ronda, Charlotte.

Ross, Howard L., doing business as Howard L. Ross Associates, New York, N. Y. Combination bottle opener and cork screw. 533,131, Nov. 7; Serial No. 577,903, published June 27, 1950. Class 23.

Ross, Howard L., Associates: *See*—
Ross, Howard L.

Roux Distributing Co., Inc., New York, N. Y. Liquid hair rinse. 533,039, Nov. 7; Serial No. 550,741, published Aug. 1, 1950. Class 51.

Royal Crown Steel Tile Co., Philadelphia, Pa. Steel tile. 533,120, Nov. 7; Serial No. 576,884, published July 4, 1950. Class 12.

Russell, A. F., & Co., Inc., Tuckahoe, N. Y. Pharmaceutical preparation. 533,185, Nov. 7; Serial No. 583,663, published Aug. 8, 1950. Class 18.

Russell, Rae W., doing business as Blue Bird Mfg. Co., Long Island City, N. Y. Hand operated tire pumps. 533,158, Nov. 7; Serial No. 581,443, published June 27, 1950. Class 23.

S. A. Latterie Industriali Riunite L. I. R., Robbio, Lomellina, Italy. Cheese. 533,062, Nov. 7; Serial No. 565,150, published June 20, 1950. Class 46.

Sales Affiliates, Inc., New York, N. Y. Hair cutting shears. 533,208, Nov. 7; Serial No. 587,654, published Aug. 8, 1950. Class 23.

Sarkin, David, Inc., New York, N. Y. Gold and platinum jewelry. 533,247, Nov. 7; Serial No. 564,219. Class 28.

Savage Arms Corporation, Utica, N. Y. Gasoline power driven lawn mowers. 533,202, Nov. 7; Serial No. 585,862, published Aug. 1, 1950. Class 23.

Savage Arms Corporation, Utica, N. Y. Manually operated lawn mowers. 533,203, Nov. 7; Serial No. 585,863, published Aug. 1, 1950. Class 23.

Schenley Distillers Corporation, doing business as Roma Wine Company, New York, N. Y., said Schenley Distillers Corporation now by change of name Schenley Industries, Inc. Wines. 533,052, Nov. 7; Serial No. 559,376, published Aug. 1, 1950. Class 47.

Schenley Industries, Inc.: *See*—
Schenley Distillers Corporation.

Schering Corporation, Bloomfield, N. J. Analgesic. 533,138, Nov. 7; Serial No. 579,624, published Aug. 8, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Analgesic. 533,139–40, Nov. 7; Serial Nos. 579,628–9, published Aug. 8, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Combination of pure crystalline harmones and vitamins. 533,151, Nov. 7; Serial No. 580,858, published Aug. 8, 1950. Class 18.

Schneierson, I., & Sons., Inc.: *See*—
Empire Silk Company.

Schwartz Laboratories, Inc., New York, N. Y. Measuring device. 277,263, renewed Nov. 11, 1950. O. G. Nov. 7. Class 26.

Scott County Milling Company, The: *See*—
Stoddard Mill & Grain Company.

Scott Detergents: *See*—
Hessler, Silas A.

Seaboard Rice Milling Co., Galveston, to Comet Rice Mills, Beaumont, Tex. Rice. 77,427, re-renewed Apr. 5, 1950. O. G. Nov. 7. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Electronic tone arm for phonographs. 533,054, Nov. 7; Serial No. 561,499, published Aug. 15, 1950. Class 21.

Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Boys' and students' suits, vests, pants, and overcoats. 276,224, renewed Oct. 14, 1950. O. G. Nov. 7. Class 39.

Selby, Battersby & Company, Philadelphia, Pa. Materials for plastic and mastic floor covering, etc. 275,251, renewed Sept. 16, 1950. O. G. Nov. 7. Class 12.

Shaw Manufacturing Company: *See*—
Shaw, Stanley W.

Shaw, Stanley W., doing business under the name of Shaw Manufacturing Company, Galesburg, Kans. Garden tractors. 533,215, Nov. 7; Serial No. 588,990, published Aug. 1, 1950. Class 23.

Sherry Wine & Spirits Co., Inc.: *See*—
Nicholas & Co., Incorporated Importers.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine. 533,192, Nov. 7; Serial No. 584,162, published Aug. 8, 1950. Class 18.

Smith, Nervin P., doing business as Plasticize Laboratories, assignor to P. Rimmeir, Miami, Fla. Plastic preparation for cleaning the outer painted surfaces. 533,238, Nov. 7; Serial No. 542,976. Class 52.

Smith, Winfield H., Corporation, Springville, N. Y. Gear speed reducers. 533,216, Nov. 7; Serial No. 590,457, published Aug. 8, 1950. Class 23.

Smithway Machine Company, Inc., Seattle, Wash. Woodworking machine. 533,064, Nov. 7; Serial No. 567,051, published June 6, 1950. Class 23.

Societe Anonyme, Bienaime, Paris, France, assignor to Bienaime, Inc., New York, N. Y. Perfumes, face creams, rouge, etc. 533,034, Nov. 7; Serial No. 547,157, published July 4, 1950. Class 51.

Sorrenti, Alfred, doing business as National Metal Products Co., New York, N. Y. Game. 533,252, Nov. 7; Serial No. 570,327. Class 22.

Speedways Conveyors, Incorporated, Buffalo, N. Y. Inclined belt conveyors. 533,164, Nov. 7; Serial No. 581,912, published Aug. 8, 1950. Class 23.

Sprague Electric Company, North Adams, Mass. Electrical condensers. 533,169, Nov. 7; Serial No. 582,500, published July 11, 1950. Class 21.

Stammelman, Mortimer J., doing business as The Atmos Products Co., New York, N. Y. Porous compositions in the nature of a chemical compound. 533,249, Nov. 7; Serial No. 567,361. Class 6.

Standard Chlorine Chemical Co., S. Kearny, Arlington, N. J. Insecticide and moth repellent. 533,113, Nov. 7; Serial No. 575,939, published Aug. 1, 1950. Class 6.

Stanley Works, The, New Britain, Conn. Wrought-steel narrow butts or hinges. 80,387, re-renewed Dec. 13, 1950. O. G. Nov. 7. Class 13.

Steel Products Manufacturing Company, St. Louis, Mo., now by change of name Swing-A-Way Manufacturing Company. Can openers. 533,030, Nov. 7; Serial No. 544,300, published Mar. 29, 1949. Class 23.

Stein, Hall & Company, Inc., New York, N. Y. Corn starch. 533,108, Nov. 7; Serial No. 575,097, published Aug. 8, 1950. Class 6.

Stein, Hall & Company, Inc., New York, N. Y. Corn starch. 533,109, Nov. 7; Serial No. 575,101, published Aug. 8, 1950. Class 6.

Stewart Paint Manufacturing Company, Minneapolis, Minn. Exterior and interior house paints, aluminum enamel, aluminum metal and masonry paint, etc. 533,111, Nov. 7; Serial No. 575,731, published Aug. 8, 1950. Class 16.

Stoddard Mill & Grain Company, Advance, by The Scott County Milling Company, Sikeston, Mo. Wheat flour. 177,734, Dec. 25, 1923. Republished Nov. 7. Class 46.

Stonhard Company: *See*—
Berman, Benjamin.

Stroliner Manufacturing Company, Union City, N. J. Collapsible strollers. 533,160, Nov. 7; Serial No. 581,742, published Aug. 15, 1950. Class 19.

Stuempges, C. L., Seattle, Wash. Hand-carved costume jewelry. 533,254, Nov. 7; Serial No. 572,611. Class 28.

Sunray Establishment, Vaduz, Liechtenstein. Electrical apparatus emitting ultra violet rays. 533,106, Nov. 7; Serial No. 574,870, published July 25, 1950. Class 44.

Superior Products Co., Magnolia, Ohio. Tractor hitches. 533,234, Nov. 7; Serial No. 533,643. Class 23.

Sweeney, W. Laurence, Yarmouth, Nova Scotia, Canada. Frozen fresh fish. 533,237, Nov. 7; Serial No. 540,737. Class 46.

Swift Manufacturing Company, Columbus, Ga. Open mesh bag material. 533,226, Nov. 7; Serial No. 508,352. Class 42.

Swing-A-Way Manufacturing Company: *See*—
Steel Products Manufacturing Company.

Swiss American Food Co., Chicago, Ill. Semi-prepared food products. 533,045, Nov. 7; Serial No. 553,546, published June 20, 1950. Class 46.

Tankit Company: *See*—
Yurdin, Alfred.

Taylor Engineering Company, Inc., Elgin, Ill. Combination hand fire extinguisher and tire inflator. 533,003, Nov. 7; Serial No. 528,654, published Aug. 8, 1950. Class 23.

Telrex Inc., Asbury Park, N. J. Television antennas. 533,176, Nov. 7; Serial No. 582,746, published Aug. 15, 1950. Class 21.

Texacado Company: *See*—
Kelley, Ethel R.

Thawpit Limited, to Thawpit Limited, London, England. Chemical preparation. 256,168, renewed May 7, 1949. O. G. Nov. 7. Class 52.

Theurer Norton Provision Company, The, Cleveland, Ohio. Meat products. 533,028, Nov. 7; Serial No. 541,604, published June 27, 1950. Class 46.

Thompson, Henry G., & Son Company, The, New Haven, Conn. Hack saw blades. 533,057, Nov. 7; Serial No. 563,799, published Aug. 1, 1950. Class 23.

Tillamook County Creamery Association, Tillamook, Oreg. Cheese and butter. 533,033, Nov. 7; Serial No. 546,251, published June 27, 1950. Class 46.

Toupe Laboratories: *See*—
Erwin, Frank B.

Tropical Beverage Company: *See*—
Bridges, Clyde L.

Truesdail Laboratories, Inc., Los Angeles, Calif. Poultry mash. 533,222, Nov. 7; Serial No. 531,739, published June 6, 1950. Class 46.

Tru-Kooler, Inc., Oelwein, Iowa. Refrigerated automotive trucks. 533,257, Nov. 7; Serial No. 576,779. Class 19.

Uarco Incorporated, Chicago, Ill. Typewriter attachment. 533,010, Nov. 7; Serial No. 532,772, published Aug. 1, 1950. Class 23.

Uarco Incorporated, Chicago, Ill. Autographic registers. 533,148, Nov. 7; Serial No. 580,331, published Aug. 1, 1950. Class 23.

Uebelhoer Brothers, Inc., Buffalo, N. Y. Gasoline engines. 444,306, Nov. 7; Serial No. 524,497, published June 6, 1950. Class 23.

Union Pacific Railroad Company, Omaha, Nebr. Railroad transportation. 533,221, Nov. 7; Serial No. 559,869, published Aug. 8, 1950. Class 105.

United Distillers of America, Inc., New York, N. Y. Alcohol solvent. 533,154, Nov. 7; Serial No. 580,958, published Aug. 1, 1950. Class 6.

U. S. Tractor Corporation, Wilmington, Del., and Warren, Ohio. Crawler-type tractors. 533,095, Nov. 7; Serial No. 572,537, published June 6, 1950. Class 23.

Universal Refining Products Co., Inc., New York, N. Y. Drain pipe solvent. 533,127, Nov. 7; Serial No. 577,292, published Aug. 1, 1950. Class 52.

Universal Winding Company: *See*—
Atwood Machine Company, The.

Universal Winding Company, Portland, Maine, and Boston, Mass., to Universal Winding Company, Cranston, R. I. Winding-machines. 35,788, re-renewed Jan. 15, 1951. O. G. Nov. 7. Class 23.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 533,180, Nov. 7; Serial No. 583,372, published Aug. 8, 1950. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 533,181, Nov. 7; Serial No. 583,374, published Aug. 8, 1950. Class 18.

Valgarde, Inc., New York, N. Y. Hormone cream. 533,097, Nov. 7; Serial No. 573,015, published July 18, 1950. Class 51.

Vaponefrin Company, Portland, Oreg. Breathing or re-breathing apparatus. 533,101, Nov. 7; Serial No. 573,999, published July 25, 1950. Class 44.

Vendomatic, Torrance, Calif. Vending machines. 533,182, Nov. 7; Serial No. 583,504, published Aug. 1, 1950. Class 23.

Villas, John D., Minneapolis, Minn. Steering wheel knobs and parts thereof. 444,298, Nov. 7; Serial No. 510,554, published Aug. 15, 1950. Class 19.

Vincove Winery: *See*—
Coviello, Vincent F.

Vogel Tool and Die Corporation, Chicago, Ill. Manually, electrically, and hydraulically operated power shears and machine tools. 533,006, Nov. 7; Serial No. 531,263, published Aug. 8, 1950. Class 23.

Volupté, Inc., Elizabeth, N. J., and New York, N. Y. Vanity cases (unfilled). 533,263–4, Nov. 7; Serial Nos. 586,440–1. Class 2.

Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Shingles, roofing tile, roofing slabs, etc. 143,764, June 7, 1921. Republished Nov. 7. Class 12.

Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y., by Certain-teed Products Corporation, Ardmore, Pa. Shingles, roofing tile, roofing slabs, etc. 144,293, June 28, 1921. Republished Nov. 7. Class 12.

Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining rings for locking, securing and/or positioning moving parts. 532,996, Nov. 7; Serial No. 509,747, published Aug. 8, 1950. Class 23.

Werman, A., & Sons, Inc., Brooklyn, N. Y. Shoes. 533,258, Nov. 7; Serial No. 577,350. Class 39.

Wesco Waterpaints, Inc., Berkeley, Calif. Paints. 533,223, Nov. 7; Serial No. 475,641. Class 16.

Western Chemical Company, Kansas City, Mo. Solvent. 533,167, Nov. 7; Serial No. 582,402, published Aug. 1, 1950. Class 52.

Western Milling Company: *See*—
Preston-Shaffer Milling Company.

Wha-Lite Products, Chicago, Ill. Plasterers' tools. 532,999, Nov. 7; Serial No. 521,619, published Aug. 1, 1950. Class 23.

Whitehead, Jud, Heater Company: *See*—
Whitehead, Judson J., Jr.

Whitehead, Judson J., Jr., doing business as Jud Whitehead Heater Company, Oakland, Calif. Electric hot water heaters. 533,011, Nov. 7; Serial No. 533,218, published Aug. 15, 1950. Class 21.

Wide World Photos, Inc.: *See*—
New York Times Company.

Williams & Sons, Portervilie, Calif. Fresh peaches. 533,018, Nov. 7; Serial No. 536,200, published June 6, 1950. Class 46.

Wilson Distilling Co, Inc., Bristol, Pa., by Hunter-Wilson Distilling Co., Inc., New York, N. Y. Whiskey. 361,322, Oct. 11, 1938. Republished Nov. 7. Class 49.

Wilson Ice Cream Company, Lumberton, N. C. Ice cream. 533,246, Nov. 7; Serial No. 563,707. Class 46.

Wilson & Stokes Lumber Company, Trenton, N. J. Rough and dressed lumber and millwork. 533,066, Nov. 7; Serial No. 567,728, published July 18, 1950. Class 12.

Wolff Freres, Inc., New York, N. Y. Perfumes, eau de cologne, bath salts, etc. 533,058, Nov. 7; Serial No. 564,362, published July 4, 1950. Class 51.

Wood Cosmetics, Inc., assignee: *See*—
Castell, Jane C.

Woodward Machine Company: *See*—
Woodward, William H.

Woodward, William H., doing business as Woodward Machine Company, Detroit, Mich. Vapor proof flood and spot lights. 533,134, Nov. 7; Serial No. 578,114, published Aug. 8, 1950. Class 21.

Wyeth Incorporated, Philadelphia, Pa. Hyaluronidase for injectable use in dental anesthesia. 533,135, Nov. 7; Serial No. 578,305, published Aug. 8, 1950. Class 18.

Yurdin, Alfred, doing business as Tankit Company, New York, N. Y. Kit containing a clamp. 533,248, Nov. 7; Serial No. 567,299. Class 13.

Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. 533,267, Nov. 7; Serial No. 590,245. Class 44.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Powder insulation for tops of ingot molds. Harbison-Walker Refractories Company. 390,925, Oct. 14, 1941. Republished Nov. 7.

Seed, Grass. J. Oliver Johnson Seed Company. 533,024, Nov. 7; Serial No. 539,880, published July 11, 1950.

Seeds, Field and garden, and seed potatoes; grit, etc. Eastern States Farmers' Exchange. 533,041, Nov. 7; Serial No. 551,257, published June 27, 1950.

CLASS 2

Boxes, Mortar, pans of sheet metal. Morgan Brothers Company. 533,256, Nov. 7; Serial No. 575,073.

Cases, Vanity (unfilled). Volupté, Inc. 533,263–4, Nov. 7; Serial Nos. 586,440–1.

Containers. G. R. Danielson. 533,225, Nov. 7; Serial No. 494,294.

Cups, Drinking, cartons, etc. Individual Drinking Cup Co. Inc. 120,264, Jan. 29, 1918. Republished Nov. 7.

Cups, Paper. Dixie Cup Company. 420,379, Apr. 9, 1946. Republished Nov. 7.

Cups, Paper. Dixie Cup Company. 424,535, Oct. 8, 1946. Republished Nov. 7.

Cups, Paper drinking, and paper cups, etc. Individual Drinking Cup Co., Inc. 223,766, Feb. 8, 1927. Republished Nov. 7.

Trays and coasters, Lithographed. Kent Productions, Inc. 533,266, Nov. 7; Serial No. 587,111.

CLASS 3

Hatboxes, hat trunks, etc. John Cavanagh, Ltd. 270,983, May 20, 1930. New certificate. O. G. Nov. 7.

CLASS 4

Abrasives, Coated. Minnesota Mining & Manufacturing Company. 533,115, Nov. 7; Serial No. 576,126, published Aug. 8, 1950.

Cleaning materials and cleaning fluids; etc. Griffin Manufacturing Company, Inc. 279,625, renewed Jan. 20, 1951. O. G. Nov. 7.

Cleansing powder. C C Manufacturing Co. 533,075, Nov. 7; Serial No. 569,080, published Aug. 8, 1950.

Combination product which polishes, cleans, restores and preserves furniture. J. C. Castell. 533,157, Nov. 7; Serial No. 581,322, published July 4, 1950.

Preparation for cleaning and polishing glass, nickel, chrome, etc., surfaces. G. E. Palmer Co., Inc. 533,060, Nov. 7; Serial No. 564,892, published Aug. 8, 1950.

CLASS 6

Acetyl chloride, ammonium benzoate, allylchlorformate, etc. Hooker Electrochemical Company. 533,188, Nov. 7; Serial No. 583,799, published Aug. 1, 1950.

Acid hardening fixing powder. Philip A. Hunt Company. 533,206, Nov. 7; Serial No. 586,694, published Aug. 8, 1950.

Astringents, astringent cerates, bleach creams, etc. Ar. Winarick, Inc. 275,460, Sept. 23, 1930. Republished Nov. 7.

Chemical mixture. E. I. du Pont, de Nemours and Company. 533,211, Nov. 7; Serial No. 588,292, published Aug. 8, 1950.

Chemical mixture. Eastern Corporation. 533,048, Nov. 7; Serial No. 555,660, published July 18, 1950.

Chemical preparation. R. England. 533,209, Nov. 7; Serial No. 587,796, published Aug. 8, 1950.

Corn starch. Stein, Hall & Company, Inc. 533,108, Nov. 7; Serial No. 575,097, published Aug. 8, 1950.

Corn starch. Stein, Hall & Company, Inc. 533,109, Nov. 7; Serial No. 575,101, published Aug. 8, 1950.

Deodorant. Clean Home Products Corporation. 276,630, renewed Oct. 21, 1950. O. G. Nov. 7.

Deodorants. Roon. Eston Chemicals, Inc. 533,145, Nov. 7; Serial No. 580,233, published June 27, 1950.

Enzyme material, Bacterial. Jeffreys Laboratories, Incorporated. 444,300, Nov. 7; Serial No. 517,725, published Feb. 10, 1948.

Esters, Organic, of alcohols and organic carboxylic acids, and mixtures thereof. Allied Chemical & Dye Corporation. 533,155, Nov. 7; Serial No. 580,964, published Aug. 1, 1950.

Fungicide. Pittsburgh Plate Glass Company. 533,212, Nov. 7; Serial No. 588,386, published Aug. 8, 1950.

Insecticide. Pittsburgh Plate Glass Company. 533,213, Nov. 7; Serial No. 588,387, published Aug. 8, 1950.

Insecticide and moth repellent. Standard Chlorine Chemical Co. 533,113, Nov. 7; Serial No. 575,939, published Aug. 1, 1950.

Insecticides. Central Paint & Varnish Works, Inc. 444,304, Nov. 7; Serial No. 523,369, published Aug. 8, 1950.

Insecticides and agricultural fungicides. Central Chemical Corporation. 533,102, Nov. 7; Serial No. 574,016, published Aug. 1, 1950.

Lanolin and lanolin toilet preparations. Botany Worsted Mills. 409,028, Sept. 12, 1944. Republished Nov. 7.

Liquid preparations for providing a glossy and non-drag surface to natural, synthetic, and reclaimed rubber. H. J. Genseke. 533,186, Nov. 7; Serial No. 583,686, published Aug. 8, 1950.

Odoriferous material. Givaudan-Delawanna, Inc. 533,080, Nov. 7; Serial No. 570,251, published Aug. 1, 1950.

Organic plasticizer. Argus Chemical Laboratory, Inc. 533,099, Nov. 7; Serial No. 573,603, published Aug. 1, 1950.

Porous compositions in the nature of a chemical compound. M. J. Stammelman. 533,240, Nov. 7; Serial No. 567,361.

Rust proofing compositions. Gilron Products Company. 533,207, Nov. 7; Serial No. 586,852, published Aug. 8, 1950.

Solvent, Alcohol. United Distillers of America, Inc. 533,154, Nov. 7; Serial No. 580,958, published Aug. 1, 1950.

Urea-formaldehyde or modified urea-formaldehyde compositions. E. I. du Pont de Nemours and Company. 533,136, Nov. 7; Serial No. 578,681, published Aug. 1, 1950.

Vinyl copolymers. H. R. Graff Company. 533,012, Nov. 7; Serial No. 533,303, published Nov. 15, 1949.

CLASS 8

Container for packages of cigarettes. Harwick. 533,168, Nov. 7; Serial No. 582,475, published Aug. 1, 1950.

Lighters and flints, Pyrophoric cigarette. National Jewelry & Importing Co. 444,296, Nov. 7; Serial No. 496,039, published Aug. 1, 1950.

Lighters, Hand manipulated pyrophoric cigarette. Excel Automatic Products, Inc. 533,229, Nov. 7; Serial No. 518,213.

Pipes, cigar holders, cigarette holders, etc. Rogers Imports Inc. 532,992, Nov. 7; Serial No. 489,686, published Aug. 8, 1950.

Pipes, cigar holders, cigarette holders, etc. Rogers Imports Inc. 532,993, Nov. 7; Serial No. 489,689, published Aug. 8, 1950.

CLASS 10

Fertilizers. California Spray-Chemical Corporation. 533,271, Nov. 7; Serial No. 594,693.

Lime, Hydrated, hydrated dolomite, and phosphatic fertilizers. The Permanente Metals Corporation. 533,242, Nov. 7; Serial No. 551,581.

Plant food. Hydroponic Chemical Company, Inc. 373,639, Dec. 12, 1939. Republished Nov. 7.

CLASS 11

Printing ink. Interchemical Corporation. 533,173, Nov. 7; Serial No. 582,625, published Aug. 8, 1950.

CLASS 12

Cement, Masonry. Louisville Cement Company. 533,189, Nov. 7; Serial No. 584,009, published July 11, 1950.

Cement, Portland. Cumberland Portland Cement Co., Inc. 533,067, Nov. 7; Serial No. 568,085, published July 18, 1950.

Cements. Certain-teed Products Corporation. 429,972, June 3, 1947. Republished Nov. 7.

Cork board, cork pipe covering, cork machinery insulation, etc. Cork Insulation Co., Inc. 277,830, renewed Nov. 25, 1950. O. G. Nov. 7.

Facing material, Concrete wall. D. F. Carlson. 533,116, Nov. 7; Serial No. 576,249, published July 4, 1950.

Fibrous material, Sheets of felted. Certain-teed Products Corporation. 390,565, Sept. 30, 1941. Republished Nov. 7.

Lumber and millwork, Rough and dressed. Wilson & Stokes Lumber Company. 533,066, Nov. 7; Serial No. 567,728, published July 18, 1950.

Materials for plastic and mastic floor covering, etc. Selby, Battersby & Company. 275,251, renewed Sept. 16, 1950. O. G. Nov. 7.

Mixture as a hardener, tightener, waterproofing, etc., Liquid. B. Berman. 275,145, renewed Sept. 16, 1950. O. G. Nov. 7.

Paper with metal foil. Reflectal Corporation. 533,187, Nov. 7; Serial No. 583,775, published July 11, 1950.

Patching material, Mastic asphaltic floor. Rock-Tred Corporation. 533,005, Nov. 7; Serial No. 530,569, published July 25, 1950.

Plaster. The Beaver Products Company, Inc. 199,924, June 23, 1925. Republished Nov. 7.

Plaster, Acoustical. Kalite Company, Limited. 283,243, May 17, 1931. Republished Nov. 7.

Plaster, cement, calcimine, and cement-plaster. Acme Cement Plaster Company. 34,685, May 22, 1900. Republished Nov. 7.

Plaster, Finishing. The Beaver Products Company, Inc. 199,923, June 23, 1925. Republished Nov. 7.

Plaster of calcined gypsum. Certain-teed Products Corporation. 314,572, July 3, 1934. Republished Nov. 7.

Plaster preparations, Mill mixed wall. The Cleveland Builders Supply Company. 533,063, Nov. 7; Serial No. 566,450, published July 18, 1950.

Plasters, Gypsum. Certain-teed Products Corporation. 382,197, Oct. 22, 1940. Republished Nov. 7.

Pumice, Acoustical. C. W. Churchill. 532,995, Nov. 7; Serial No. 506,983, published July 25, 1950.

Roofing-felt, deadening-felt, building-paper, and roofing-paper. General Roofing Manufacturing Company. 87,202, July 2, 1912. Republished Nov. 7.

Roofing material of felt base, Sheet. Certain-teed Products Corporation. 401,960, June 22, 1943. Republished Nov. 7.

Roofing, Prepared. The Beaver Products Company, Inc. 195,989, Mar. 10, 1925. Republished Nov. 7.

Roofing, Prepared, roofing felts, deadening felts, etc. General Roofing Manufacturing Company. 103,781, Apr. 13, 1915. Republished Nov. 7.

Roofing, Prepared sheet, roofing tiles, shingles, and roofing cements. The Beaver Company. 132,626, June 29, 1920. Republished Nov. 7.

Sheets of felted fibrous material. Certain-teed Products Corporation. 390,563, Sept. 30, 1941. Republished Nov. 7.

Shingles, roofing tile, roofing slabs, etc. The Vulcanite Roofing Company. 143,764, June 7, 1921. Republished Nov. 7.

Shingles, roofing tile, roofing slabs, etc. The Vulcanite Roofing Company. 144,293, June 28, 1921. Republished Nov. 7.

Siding, Protective, for building, walls, etc. Certain-teed Products Corporation. 281,086, Mar. 10, 1931. Republished Nov. 7.

Stone, Asphalt-coated. B. Berman. 275,144, renewed Sept. 16, 1950. O. G. Nov. 7.

Storm sash, Ventilating. Curtis Companies Incorporated. 533,036, Nov. 7; Serial No. 549,365, published July 18, 1950.

Tile, Steel. Royal Crown Steel Tile Co. 533,120, Nov. 7; Serial No. 576,884, published July 4, 1950.

Tiles, N. V. Kristal-, Glas-en Aardewerkfabrieken "de Sphinx" Voorheen Petrus Regout & Co. 276,487, Oct. 21, 1930. Republished Nov. 7.

Tiles and bricks, Refractory. Laclede-Christy Company. 533,103, Nov. 7; Serial No. 574,627, published July 4, 1950.

Wall board. The Beaver Products Company, Inc. 208,991, Feb. 16, 1926. Republished Nov. 7.

Wall board, Fiber, gypsum board, gypsum plaster, etc. The Beaver Products Company, Inc. 221,037, Nov. 23, 1926. Republished Nov. 7.
Wallboard, Gypsum, and gypsum lath. Certain-teed Products Corporation. 371,297, Sept. 19, 1939. Republished Nov. 7.
Wall boards, Composition, gypsum wall boards and gypsum lath, etc. Certain-teed Products Corporation. 343,676, Mar. 2, 1937. Republished Nov. 7.
Weather strip, Fibrous and metal, and automatic door bottoms. Macklanburg-Duncan Company. 357,048, May 24, 1938. Republished Nov. 7.
Weather strip, Fibrous and metal, metal molding, and automatic door bottoms. Macklanburg-Duncan Company. 361,509, Oct. 18, 1938. Republished Nov. 7.
Weather strips. Gardner Wire Co. 533,042, Nov. 7; Serial No. 551,885, published July 18, 1950.

CLASS 13

Glides, Metal. Kay Manufacturing Corporation. 533,152, Nov. 7; Serial No. 580,885, published Aug. 8, 1950.
Hinges, Door. C. Hager & Sons Hinge Mfg. Co. 533,251, Nov. 7; Serial No. 567,969.
Kit containing a clamp. A. Yurdin. 533,248, Nov. 7; Serial No. 567,299.
Narrow butts or hinges, Wrought-steel. The Stanley Works. 80,387, re-renewed Dec. 13, 1950. O. G. Nov. 7.
Tubing, Seamless steel. The Ohio Seamless Tube Company. 533,105, Nov. 7; Serial No. 574,855, published Aug. 8, 1950.
Washers, Lock. Eaton Manufacturing Company. 533,255, Nov. 7; Serial No. 574,957.

CLASS 14

Forgings. Atlantic Steel Company. 436,224, Jan. 27, 1948. Disclaimed. O. G. Nov. 7.
Steel bars, forgings, and blocks, etc. Firth-Sterling Steel Company. 271,644, June 17, 1930. Republished Nov. 7.

CLASS 16

Enamel, Thermoplastic. J. C. Newar. 444,305, Nov. 7; Serial No. 523,428, published Aug. 8, 1950.
Enamels, Transparent and colored baking. Interchemical Corporation. 533,100, Nov. 7; Serial No. 573,774, published Aug. 8, 1950.
Paint, Cork-covering, and cork-covering brine putty. Cork Insulation Co., Inc. 279,282, renewed Jan. 13, 1951. O. G. Nov. 7.
Paint, Enamel. Minnesota Linseed Oil Paint Co. 533,002, Nov. 7; Serial No. 527,672, published Aug. 8, 1950.
Paint, Non-inflammable and permanent. Binney & Smith Company. 533,196, Nov. 7; Serial No. 585,364, published Aug. 8, 1950.
Paint, Ready-mixed. Great Lakes Steel Corporation. 533,119, Nov. 7; Serial No. 576,693, published Aug. 8, 1950.
Paint, Self sealing flat wall. The Harrison Paint and Varnish Company. 533,050, Nov. 7; Serial No. 556,886, published Aug. 8, 1950.
Paints. Wesco Waterpaints, Inc. 533,223, Nov. 7; Serial No. 475,641.
Paints, Aluminum. Claronex Products, Inc. 533,177, Nov. 7; Serial No. 582,821, published Aug. 8, 1950.
Paints, Exterior and interior house, aluminum enamel, aluminum metal and masonry paint, etc. Stewart Paint Manufacturing Company. 533,111, Nov. 7; Serial No. 575,731, published Aug. 8, 1950.
Wax, Floor. Clover Farm Stores Corporation. 533,043, Nov. 7; Serial No. 553,078, published Aug. 8, 1950.

CLASS 17

Cigars. Marta Cigar Co. 533,244, Nov. 7; Serial No. 561,208.
Snuff. American Snuff Company. 533,051, Nov. 7; Serial No. 537,651, published Apr. 4, 1950.

CLASS 18

Analgesic. Schering Corporation. 533,138, Nov. 7; Serial No. 579,624, published Aug. 8, 1950.
Analgesic. Schering Corporation. 533,139–40, Nov. 7; Serial Nos. 579,628–9, published Aug. 8, 1950.
Analgesics, anti-anemics, anti-biotics, etc. Parke, Davis & Company. 533,130, Nov. 7; Serial No. 577,681, published Aug. 8, 1950.
Anticonvulsant preparation. Parke, Davis & Company. 533,159, Nov. 7; Serial No. 581,680, published July 25, 1950.
Astringents, astringent cerates, bleach creams, etc. Ar. Winarick, Inc. 275,460, Sept. 23, 1930. Republished Nov. 7.
Chemical preparation. H. L. Moyer Company, Inc. 533,137, Nov. 7; Serial No. 579,343, published Aug. 8, 1950.
Crystalline hormone and vitamins, Combination of pure. Schering Corporation. 533,151, Nov. 7; Serial No. 580,858, published Aug. 8, 1950.
Hyaluronidase for injectable use in dental anesthesia. Wyeth Incorporated. 533,135, Nov. 7; Serial No. 578,305, published Aug. 8, 1950.
Medical compound. Desitin Chemical Co. 533,178, Nov. 7; Serial No. 582,952, published Aug. 8, 1950.
Medicinal preparation. R. L. Gaddy. 533,087, Nov. 7; Serial No. 571,025, published Aug. 1, 1950.
Medicinal preparation. The Upjohn Company. 533,180, Nov. 7; Serial No. 583,372, published Aug. 8, 1950.
Medicinal preparation. The Upjohn Company. 533,181, Nov. 7; Serial No. 583,374, published Aug. 8, 1950.
Medicinal preparation. Vincent Christina & Company, Inc. 533,084, Nov. 7; Serial No. 570,770, published Aug. 8, 1950.
Medicine. Smith, Kline & French Laboratories. 533,192, Nov. 7; Serial No. 584,162, published Aug. 8, 1950.
Mouth and teeth treating preparation. American Alcolac Corporation. 533,194, Nov. 7; Serial No. 584,376, published Aug. 8, 1950.
Pharmaceutical preparation. A. F. Russell & Co., Inc. 533,185, Nov. 7; Serial No. 583,663, published Aug. 8, 1950.
Preparation used in the treatment of trench mouth, etc. Pharmaceuticals, Inc. 533,107, Nov. 7; Serial No. 575,087, published Aug. 8, 1950.
Salve. R. B. Rebbeck. 533,056, Nov. 7; Serial No. 562,806, published July 25, 1950.
Veterinary medicines. Fleming Brothers. 533,089, Nov. 7; Serial No. 571,129, published July 25, 1950.

CLASS 19

Blade attachments. E. Belmont. 533,146, Nov. 7; Serial No. 580,280, published Aug. 15, 1950.
Covers, Automobile seat. P. Harnish. 533,015, Nov. 7; Serial No. 534,018, published May 11, 1948.
Knobs and parts thereof, Steering wheel. J. D. Villas. 444,298, Nov. 7; Serial No. 510,554, published Aug. 15, 1950.
Strollers, Collapsible. Strolinер Manufacturing Company. 533,160, Nov. 7; Serial No. 581,742, published Aug. 15, 1950.
Trucks, Refrigerated automotive. Tru-Kooler, Inc. 533,257, Nov. 7; Serial No. 576,779.

CLASS 21

Air circulators, Deflector type. Kisco Company, Inc. 533,195, Nov. 7; Serial No. 584,626, published Aug. 8, 1950.
Antennas, Television. Telrex Inc. 533,176, Nov. 7; Serial No. 582,746, published Aug. 15, 1950.
Batteries, Storage. Harrison Wholesale Company. 533,044, Nov. 7; Serial No. 553,107, published Aug. 15, 1950.
Batteries, Storage, battery cables, automobile fuses, etc. Phillips Petroleum Company. 533,110, Nov. 7; Serial No. 575,427, published Aug. 15, 1950.
Circuit breakers, switchgear, relays, bus runs, etc. I-T-E Circuit Breaker Company. 533,091–2, Nov. 7; Serial Nos. 571,970–1, published Aug. 15, 1950.
Condensers, Electrical. Sprague Electric Company. 533,169, Nov. 7; Serial No. 582,500, published July 11, 1950.
Connectors, Electrical. Academy Electrical Products Corp. 533,086, Nov. 7; Serial No. 570,936, published Aug. 15, 1950.
Cover, Spark plug. Arrowhead Rubber Company. 533,112, Nov. 7; Serial No. 575,747, published Aug. 15, 1950.
Disposal units, Electric garbage. Morton Manufacturing Company. 533,253, Nov. 7; Serial No. 572,370.
Drills, Portable electric, and parts thereof, portable electric valve grinders, portable electric screw, bolt and nut drivers, etc. The Black & Decker Manufacturing Company. 276,878, Oct. 28, 1930. Republished Nov. 7.
Electrical apparatus. International Electric Co. 533,000, Nov. 7; Serial No. 527,176, published July 6, 1948.
Fans, Electric. Master Appliance Mfg. Co. 444,297, Nov. 7; Serial No. 509,156, published May 17, 1949.
Friction tape and splicing compound, Electrical. Parr Electric Co., Inc. 533,093, Nov. 7; Serial No. 572,052, published Aug. 8, 1950.
Heaters, Electric hot water. J. J. Whitehead, Jr. 533,011, Nov. 7; Serial No. 533,218, published Aug. 15, 1950.
Lamps, Electric flood. Phoenix Products Company. 533,142, Nov. 7; Serial No. 579,708, published July 25, 1950.
Light, Vapor proof flood and spot. W. H. Woodward. 533,134, Nov. 7; Serial No. 578,114, published Aug. 8, 1950.
Panel boards, Electric, and electric circuit breakers. Heinemann Electric Company. 533,053, Nov. 7; Serial No. 561,466, published June 13, 1950.
Resistors, Electrical. Exmet Electrical Corporation. 533,141, Nov. 7; Serial No. 579,677, published Aug. 1, 1950.
Rotators, Antenna. Crown Controls Company, Inc. 533,198, Nov. 7; Serial No. 585,516, published Aug. 15, 1950.
Separators, Electrically operated cream. Babson Bros. Co. 532,998, Nov. 7; Serial No. 520,438, published Aug. 15, 1950.
Sprayers, Unitary portable electric hand manipulable. Burgess Battery Company. 533,162, Nov. 7; Serial No. 581,797, published Aug. 8, 1950.
Tone arm for phonographs, Electronic. Sears, Roebuck and Co. 533,054, Nov. 7; Serial No. 561,499, published Aug. 15, 1950.

Tool embodying an electric motor, Hand. Master Appliance Mfg. Co. 533,082, Nov. 7; Serial No. 570,368, published Aug. 15, 1950.
Tubes, Cathode ray. American Television, Inc. 533,172, Nov. 7; Serial No. 582,591, published Aug. 15, 1950.
Wire, Magnet. The American Steel and Wire Company of New Jersey. 533,199, Nov. 7; Serial No. 585,555, published Aug. 8, 1950.

CLASS 22

Doll. C. Ronda. 533,230, Nov. 7; Serial No. 520,350.
Game. A. Sorrenti. 533,252, Nov. 7; Serial No. 570,327.

CLASS 23

Apparatus for cutting and shaping articles, Power driven. Eveready Briksaw Company. 533,259, Nov. 7; Serial No. 577,783.
Apparatus for mechanically removing bread and like food stuffs from pans. The Peterson Oven Company. 533,094, Nov. 7; Serial No. 572,268, published June 6, 1950.
Bearings, bushings, etc., Machinery. Bound Brook Oil-Less Bearing Company. 533,049, Nov. 7; Serial No. 555,893, published Aug. 8, 1950.
Belt conveyors. Conveyor Specialty Company. 444,301, Nov. 7; Serial No. 518,457, published June 6, 1950.
Belt conveyors, Sectional. Peterson Products Corporation. 533,144, Nov. 7; Serial No. 580,144, published Aug. 8, 1950.
Blades, Hack saw. The Henry G. Thompson & Son Company. 533,057, Nov. 7; Serial No. 563,799, published Aug. 1, 1950.
Blades, Razor. Atomic Blade Co. 533,171, Nov. 7; Serial No. 582,554, published June 27, 1950.
Blades, Safety razor. American Safety Razor Corporation. 533,126, Nov. 7; Serial No. 577,248, published June 27, 1950.
Bottle opener and cork screw, Combination. H. L. Ross. 533,131, Nov. 7; Serial No. 577,903, published June 27, 1950.
Bottle uncaser and washer loader, Beverage. Radio Corporation of America. 533,217, Nov. 7; Serial No. 590,760, published Aug. 8, 1950.
Brackets, Scaffold supporting. Albina Engine & Machine Works, Inc. 533,156, Nov. 7; Serial No. 581,154, published Aug. 1, 1950.
Can openers. Steel Products Manufacturing Company. 533,030, Nov. 7; Serial No. 544,300, published Mar. 29, 1949.
Clutches. The Electric Auto-Lite Company. 533,184, Nov. 7; Serial No. 583,644, published Aug. 1, 1950.
Component part of a cotton gin. Lummus Cotton Gin Co. 533,260, Nov. 7; Serial No. 577,970.
Conveyors, Air activated gravity, and parts and accessories therefor. Fuller Company. 533,150, Nov. 7; Serial No. 580,404, published June 6, 1950.
Conveyors, Inclined belt. Speedways Conveyors, Incorporated. 533,164, Nov. 7; Serial No. 581,912, published Aug. 8, 1950.
Counterbores, Power-driven. Coffey-Cummins Manufacturing Company. 533,218, Nov. 7; Serial No. 592,760, published Aug. 1, 1950.
Covering, Flexible, together with a frame support therefor. D & D Company. 533,065, Nov. 7; Serial No. 567,566, published June 27, 1950.
Cranes, Overhead traveling, jib cranes, I-beam trolleys, and hand chain hoists. H. D. Conkey & Company. 533,055, Nov. 7; Serial No. 562,543, published Aug. 8, 1950.
Cranes, Overhead travelling, monorails, and hoists. Pidgeon-Thomas Iron Company. 533,153, Nov. 7; Serial No. 580,946, published Aug. 1, 1950.
Cutlery. McCrory Stores Corporation. 533,070, Nov. 7; Serial No. 568,744, published Aug. 1, 1950.
Dispensers, Label. Avery Adhesive Label Corp. 533,163, Nov. 7; Serial No. 581,852, published Aug. 8, 1950.
Distributors, Fertilizer. V. R. MacFee. 533,125, Nov. 7; Serial No. 577,203, published Aug. 8, 1950
Engines, Drilling, engine pumps, and parts used in the oil and gas industry; gas engines, etc. Ajax Iron Works. 444,302, Nov. 7; Serial No. 520,597, published June 6, 1950.
Engines, Gasoline. Uebelhoer Brothers, Inc. 444,306, Nov. 7; Serial No. 524,497, published June 6, 1950.
Engines, Internal combustion, mechanical power plants, mechanical driving units, etc. Continental Motors Corporation. 533,076, Nov. 7; Serial No. 569,824, published Aug. 8, 1950.
Fire extinguisher and tire inflator, Combination hand. Taylor Engineering Company, Inc. 533,003, Nov. 7; Serial No. 528,654, published Aug. 8, 1950.
Fire extinguishers, Portable hand, saws, knives, etc. Industrial Supply Company, Inc. 268,302, renewed Mar. 11, 1950. O. G. Nov. 7.
Implements, Agricultural. Orkil, Incorporated. 533,214, Nov. 7; Serial No. 588,703, published July 18, 1950.
Knitting apparatus, Hand. Luchsinger's Handelsgesellschaft Amsterdam Filiale Zuerich. 533,191, Nov. 7; Serial No. 584,142, published Aug. 8, 1950.
Lawn mowers, Gasoline power driven. Savage Arms Corporation. 533,202, Nov. 7; Serial No. 585,862, published Aug. 1, 1950.
Lawn mowers, Manually operated. Savage Arms Corporation. 533,203, Nov. 7; Serial No. 585,863, published Aug. 1, 1950.
Machinery, Packaging. Paul L. Karstrom Co. 533,232, Nov. 7; Serial No. 522,598.
Machines adapted to pre-mix syrup and carbonated water preparatory to bottling. Geo. J. Meyer Manufacturing Co. 533,245, Nov. 7; Serial No. 563,206.
Mixing, dispensing and vending machines, Beverage. Lion Manufacturing Corporation. 533,204, Nov. 7; Serial No. 585,946, published Aug. 8, 1950.
Power shears and machine tools, Manually, electrically, and hydraulically operated. Vogel Tool and Die Corporation. 533,006, Nov. 7; Serial No. 531,263, published Aug. 8, 1950.
Presses, Printing. Miehle Printing Press & Manufacturing Company. 527,084, July 4, 1950. Corrected. O. G. Nov. 7.
Pumps, Double acting piston. Goulds Pumps, Incorporated. 533,085, Nov. 7; Serial No. 570,850, published Aug. 1, 1950.
Pumps, Hand- and power-operated reciprocating, deep-well and shallow-well, etc. F. E. Myers & Bro. Company. 527,640, July 18, 1950. Corrected. O. G. Nov. 7.
Pumps, Hand operated tire. R. W. Russell. 533,158 Nov. 7; Serial No. 581,443, published June 27, 1950.
Pumps, Water, water pump repair kits, valves, etc. Jobbers Supply Company, Inc. 533,231, Nov. 7; Serial No. 521,451.
Pumps, Water, water systems, and accessories therefor. Liberty Products Mfg. Co. Inc. 532,994, Nov. 7; Serial No. 494,670, published July 18, 1950.
Reducers, Gear shaped. Winfield H. Smith Corporation. 533,216, Nov. 7; Serial No. 590,457, published Aug. 8, 1950.
Registers, Autographic. Uarco Incorporated. 533,148, Nov. 7; Serial No. 580,331, published Aug. 1, 1950.
Rings for locking, securing and/or positioning moving parts, Retaining. Waldes Koh-I-Noor, Inc. 532,996, Nov. 7; Serial No. 509,747, published Aug. 8, 1950.
Screw drivers and handles. North Brothers Manufacturing Company. 533,020, Nov. 7; Serial No. 537,477, published Mar. 21, 1950.
Sewing machines. Rector Trading Corporation. 533,262, Nov. 7; Serial No. 571,080.
Sewing machines, Blindstitch, needles therefor and pinking attachments for sewing machines. Lewis Invisible Stitch Machine Co. 533,040, Nov. 7; Serial No. 551,180, published Aug. 8, 1950.
Shears, Hair cutting. Sales Affiliates, Inc. 533,208, Nov. 7; Serial No. 587,654, published Aug. 8, 1950.
Slitters, Strip steel. Paxson Machine Company. 533,270, Nov. 7; Serial No. 591,636.
Spatulas. DanD Products Company. 533,096, Nov. 7; Serial No. 572,727, published June 6, 1950.
Spindles, Spinning and twisting. The Atwood Machine Company. 527,457–60, renewed Jan. 13, 1951. O. G. Nov. 7.
Sprayers and dusters. H. D. Hudson Manufacturing Company. 533,179, Nov. 7; Serial No. 583,261, published Aug. 8, 1950.
Spraying equipment, parts, and accessories therefor. The De Vilbiss Company. 533,019, Nov. 7; Serial No. 537,432, published June 27, 1950.
Stapling machines. The E. H. Hotchkiss Company. 533,133, Nov. 7; Serial No. 578,021, published June 27, 1950.
Thinning attachment, Plant. The Mayco Company. 533,132, Nov. 7; Serial No. 577,974, published Aug. 8, 1950.
Tool bits. E. S. Karlsen. 533,013, Nov. 7; Serial No. 533,318, published Aug. 8, 1950.
Tools. Firth-Sterling Steel Company. 273,077, July 22, 1930. Republished Nov. 7.
Tools and blades therefor, Gear cutting. Gleason Works. 533,026, Nov. 7; Serial No. 540,349, published Aug. 8, 1950.
Tools and equipment, Printer's. Hawthorne Baker Limited. 533,035, Nov. 7; Serial No. 547,452, published July 18, 1950.
Tools, Plasterer's. Wha-Lite Products. 532,999, Nov. 7; Serial No. 521,619, published Aug. 1, 1950.
Tools, Pneumatic. W. E. Dougherty. 533,077, Nov. 7; Serial No. 569,967, published Aug. 8, 1950.
Tractor hitches. Superior Products, Co. 533,234, Nov. 7; Serial No. 533,643.
Tractors, Crawler-type. U. S. Tractor Corporation. 533,095, Nov. 7; Serial No. 572,537, published June 6, 1950.
Tractors, Garden. S. W. Shaw. 533,215, Nov. 7; Serial No. 588,990, published Aug. 1, 1950.
Transmissions, Variable speed, variable speed motor pulleys, etc. Lewellen Manufacturing Company. 533,008, Nov. 7; Serial No. 531,491, published Aug. 8, 1950.
Typewriter attachment. Uarco Incorporated. 533,010, Nov. 7; Serial No. 532,772, published Aug. 1, 1950.
Valves, Motor actuated inner diaphragm. Fisher Governor Company. 533,023, Nov. 7; Serial No. 538,899, published Aug. 8, 1950.
Vending machines, Vendomatic. 533,182, Nov. 7; Serial No. 583,504, published Aug. 1, 1950.
Vending machines, Pop corn. J. R. Giesler & Associates. 533,193, Nov. 7; Serial No. 584,195, published July 18, 1950.

Winding-machines. Universal Winding Company. 35,788, re-renewed Jan. 15, 1951. O. G. Nov. 7.
Woodworking machine. Smithway Machine Company, Inc. 533,064, Nov. 7; Serial No. 567,051, published June 6, 1950.

CLASS 26

Combination apparatus, Unitary electrically operated, for the synchronous transmission or reproduction of light and sound effects. The Magnavox Company. 438,641, May 11, 1948. Republished Nov. 7.
Measuring device. Schwartz Laboratories, Inc. 277,263, renewed Nov. 11, 1950. O. G. Nov. 7.

CLASS 27

Clocks, watches, and watches and attached watch bracelets. Georg Jensen Inc. 528,176, Aug. 1, 1950. Corrected. O. G. Nov. 7.

CLASS 28

Flatware, hollowware, etc. Georg Jensen Inc. 528,177, Aug. 1, 1950. Corrected. O. G. Nov. 7.
Jewelry, Gold and platinum. David Sarkin, Inc. 533,247, Nov. 7; Serial No. 564,219.
Jewelry, Hand-carved costume. C. L. Stuempges. 533,254, Nov. 7; Serial No. 572,611.

CLASS 29

Mops, Dust, and dusters. Golden Star Polish Manufacturing Company. 533,032, Nov. 7; Serial No. 545,248, published Nov. 8, 1949.
Toothbrushes. Owens Brush Company. 533,269, Nov. 7; Serial No. 590,635.

CLASS 31

Filter packs. Replaceable. Luber-Finer Incorporated. 443,980. May 16, 1950. Republished Nov. 7.

CLASS 32

Beds; bunk beds; kitchen, dining room and living room chairs, etc. T. Baumritter Co. Inc. 532,997, Nov. 7; Serial No. 511,786, published July 18, 1950.
Case, Display. The Kelling Nut Co. 533,009, Nov. 7; Serial No. 531,610, published July 11, 1950.
Counters, cafeteria tables, office tables, etc. The Gunn Furniture Company. 177,564, Dec. 18, 1923. Republished Nov. 7.
Furniture. Heywood-Wakefield Company. 533,025, Nov. 7; Serial No. 540,010, published July 11, 1950.

CLASS 34

Assemblies of kitchen equipment. American Gas Association, Inc. 533,272, Nov. 7; Serial No. 546,539.
Furnaces and furnace bodies, Coal, oil, wood, and gas. Arcweld Manufacturing Company, Inc. 273,388, renewed Aug. 5, 1950. O. G. Nov. 7.
Tubing, Finned, employed in condensers, evaporators, etc. Carrier Corporation. 533,250, Nov. 7; Serial No. 567,682.

CLASS 37

Envelopes, Correspondence. Curtis 1000, Incorporated. 444,029, June 13, 1950. Republished Nov. 7.
Paper, Transparent wrapping. Riegel Paper Corporation. 277,895, renewed Dec. 2, 1950. O. G. Nov. 7.

CLASS 38

Cartoons, Series of. The Associated Press. 289,405, Nov. 24, 1931. Republished Nov. 7.
Cartoons, Series of. The Associated Press. 382,442, Dec. 10, 1940. Republished Nov. 7.
Cartoons, Series of. The Associated Press. 383,446–7, Dec. 10, 1940. Republished Nov. 7.
Cartoons, Series of. The Associated Press. 432,616, Sept. 9, 1947. Republished Nov. 7.
Comic strip or panel. The Associated Press. 400,199, Feb. 16, 1943. Republished Nov. 7.
Magazines, leaflets, etc. Dun & Bradstreet, Inc. 508,817, Apr. 19, 1949. Corrected. O. G. Nov. 7.
Newspaper articles. The Associated Press. 294,403, May 24, 1932. Republished Nov. 7.
Newspaper cartoons. The Associated Press. 308,419, Dec. 5, 1933. Republished Nov. 7.
News stories and news photographs. The Associated Press. 401,258, May 4, 1943. Republished Nov. 7.
News stories and news photographs. The Associated Press. 411,547, Jan. 23, 1945. Republished Nov. 7.
Pamphlets. The Civic Club of Allegheny County. 533,201, Nov. 7; Serial No. 585,631, published Aug. 8, 1950.
Periodical. Lloyd Hollister, Inc. 533,205, Nov. 7; Serial No. 585,999, published Aug. 8, 1950.
Periodical. The International Association of Lions Clubs. 274,143, renewed Aug. 19, 1950. O. G. Nov. 7.
Photographic prints. Photochart. 533,104, Nov. 7; Serial No. 574,726, published Aug. 8, 1950.
Photographs and reprints thereof. New York Times Company. 133,475, July 27, 1920. Republished Nov. 7.
Publication, Weekly periodical. The American Lumberman. 159,253, Sept. 26, 1932. Republished Nov. 7.
Publications, Continuing series of. E. L. Douglass. 356,551, May 3, 1938. Republished Nov. 7.
Publications, Daily. The Associated Press. 271,966–8, June 24, 1930. Republished Nov. 7.

CLASS 39

Blouses, Ladies' and misses'. Joan Kenley, Inc. 533,241, Nov. 7; Serial No. 550,519.
Blouses, Women's and misses'. Joan Kenley, Inc. 533,268, Nov. 7; Serial No. 590,270.
Brassières. F. G. Farino. 533,227, Nov. 7; Serial No. 510,582.
Corsets, corselets, girdles, etc. The La Resista Corset Company. 533,228, Nov. 7; Serial No. 512,428.
Garters or hose supporters, Men's. Hickok Manufacturing Co. Inc. 279,668, renewed Jan. 20, 1951. O. G. Nov. 7.
Hair nets. The Glemby Company, Inc. 526,318, June 13, 1950. Corrected. O. G. Nov. 7.
Hats for men. Knox Hat Company, Inc. 280,532, Feb. 17, 1931. New certificate. O. G. Nov. 7.
Hats, Men's. Byer-Rolnick Company. 526,196, June 13, 1950. New certificate. O. G. Nov. 7.
Hosiery, Full-fashioned silk. Chalfont Hosiery Mills. 277,751, Nov. 25, 1930. Republished Nov. 7.
Jackets, Men's. John Alexander, of New Haven, Incorporated. 429,000, Apr. 15, 1947. Republished Nov. 7.
Neckties. Botany Worsted Mills. 343,598, Feb. 23, 1937. Republished Nov. 7.
Shirts, Dress, negligee shirts, vests for outer wear, etc. Delpark, Inc. 278,448, renewed Dec. 16, 1950. O. G. Nov. 7.
Shirts, Work, overalls, pants, etc. Pyke Mfg. Co. 278,604, renewed Dec. 23, 1950. O. G. Nov. 7.
Shoes. A. Werman & Sons, Inc. 533,258, Nov. 7; Serial No. 577,350.
Shoes, Leather. Cannon Shoe Company. 318,081, Oct. 16, 1934. Republished Nov. 7.
Shoes, Leather. Dunn and McCarthy, Inc. 271,984, renewed June 24, 1950. O. G. Nov. 7.
Shoes, soles, and heels. Cambridge Rubber Company. 368,002, June 6, 1939. Republished Nov. 7.
Slacks, blouses, and skirts, Women's, misses', and girls'. Korday Sportswear, Inc. 404,924, Dec. 28, 1943. Republished Nov. 7.
Suits, coats, trousers, etc., Men's. Bloomingdale Bros., Inc. 274,565, Sept. 2, 1930. Republished Nov. 7.
Suits, vests, pants, and overcoats, Boys' and students'. The H. A. Seinsheimer Company. 276,224, renewed Oct. 14, 1950. O. G. Nov. 7.
Topcoats and overcoats, Men's. Fashion Park, Inc. 533,239, Nov. 7; Serial No. 544,560.
Underwear, Infants' and children's knitted. E-Cut Knitting Mills. 396,207, June 30, 1942. Republished Nov. 7.

CLASS 42

Blankets. The Governor and Company of Adventurers of England Trading into Hudson's Bay. 274,403, renewed Aug. 26, 1950. O. G. Nov. 7.
Cotton, mohair, ramie, etc., plushes, velour and velvets in the piece. Collins & Aikman Co. 88,061, Aug. 27, 1912. Republished Nov. 7.
Curtains, Window. House Beautiful Curtains, Inc. 533,261, Nov. 7; Serial No. 579,190.
Fabrics, Blended. Collins & Aikman Corporation. 401,150, Apr. 27, 1943. Republished Nov. 7.
Fabrics, Cotton duck. Collins & Aikman Corporation. 397,447, Sept. 8, 1942. Republished Nov. 7.
Fabrics, Cotton pile. Collins & Aikman Corporation. 374,152, Jan. 2, 1940. Republished Nov. 7.
Fabrics, Cotton pile. Collins & Aikman Corporation. 378,362, June 4, 1940. Republished Nov. 7.
Fabrics, Pile. Collins & Aikman Company. 218,549–50, Sept. 28, 1926. Republished Nov. 7.
Fabrics, Pile. Collins & Aikman Corporation. 365,779, Mar. 21, 1939. Republished Nov. 7.
Fabrics, Pile. Collins & Aikman Corporation. 393,796, Mar. 3, 1942. Republished Nov. 7.
Fabrics, Woolen. Collins & Aikman Corporation. 308,734, Dec. 19, 1933. Republished Nov. 7.
Fabrics, Worsteds. Collins & Aikman Corporation. 396,027, June 23, 1942. Republished Nov. 7.
Fabrics, Worsted. Collins & Aikman Corporation. 397,445, Sept. 8, 1942. Republished Nov. 7.
Fabrics, Worsted. Collins & Aikman Corporation. 401,149, Apr. 27, 1943. Republished Nov. 7.
Fabrics, Worsted. Collins & Aikman Corporation. 401,151, Apr. 27, 1943. Republished Nov. 7.
Open mesh bag material. Swift Manufacturing Company. 533,226, Nov. 7; Serial No. 508,352.
Piece goods, Cotton, woolen, linen and silk. Bedell Parker. 80,374, re-renewed Dec. 13, 1950. O. G. Nov. 7.
Piece goods, Silk, artificial silks, etc. Empire Silk Company. 345,926, May 11, 1937. Republished Nov. 7.

CLASS 44

Breathing or rebreathing apparatus. Vaponefrin Company. 533,101; Nov. 7; Serial No. 573,999, published July 25, 1950.
Catheters, Nasal, stomach tubes, rectal tubes, etc. Baxter Laboratories, Inc. 533,197, Nov. 7; Serial No. 585,509, published Aug. 15, 1950.

Dental plaster and surgical plaster of Paris. Certain-teed Products Corporation. 199,755, June 16, 1925. Republished Nov. 7.
Dental plaster of Paris. Certain-teed Products Corporation. 417,292, Oct. 23, 1945. Republished Nov. 7.
Dental plaster of Paris. Certain-teed Products Corporation. 417,600, Nov. 6, 1945. Republished Nov. 7.
Diagnostic tuning devices. College of Electronic Medicine, Blanche & Jean R. Abrams Memorial Foundation. 369,590, Aug. 1, 1939. Republished Nov. 7.
Elastic stockings, Surgical. Becton Dickinson and Company. 533,210, Nov. 7; Serial No. 588,157, published Aug. 1, 1950.
Electrical apparatus emitting ultra violet rays. Sunray Establishment. 533,106, Nov. 7; Serial No. 574,870, published July 25, 1950.
Hearing aids, Electrical, and parts thereof. Zenith Radio Corporation. 533,267, Nov. 7; Serial No. 590,245.
Thermometers, Body temperature. E. F. Keefe. 533,128, Nov. 7; Serial No. 577,480, published July 25, 1950.

CLASS 45

Beverages, Non-alcoholic, non-cereal, maltless. C. L. Bridges. 533,265, Nov. 7; Serial No. 586,517.
Beverages, Non-alcoholic, non-cereal, maltless. The Cobbs Company. 532,240, Nov. 7; Serial No. 548,931.
Syrups, extracts and fruit syrups, Non-alcoholic maltless. Allied Fruit & Extract Co., Inc. 533,083, Nov. 7; Serial No. 570,400, published Aug. 1, 1950.

CLASS 46

Avocados, Fresh. E. R. Kelley. 533,046, Nov. 7; Serial No. 553,712, published June 20, 1950.
Candies. J. M. Flanagan. 533,233, Nov. 7; Serial No. 525,073.
Candies and peanut products. Lion Specialty Co. 533,007, Nov. 7; Serial No. 531,341, published June 27, 1950.
Candy. Hogan and Hogan. 533,236, Nov. 7; Serial No. 538,280.
Canned corned beef, canned corned beef hash, canned roast beef. Corporacion Argentina de Productores de Carnes. 533,147, Nov. 7; Serial No. 580,288, published June 20, 1950.
Canned fruits. Harter Packing Company. 279,633–5, renewed Jan. 20, 1951. O. G. Nov. 7.
Canned pineapple. Catz American Co., Inc. 533,017, Nov. 7; Serial No. 535,681, published June 20, 1950.
Canned vegetables. Minnesota Valley Canning Company. 533,059, Nov. 7; Serial No. 564,821, published June 20, 1950.
Cereal breakfast food. The Great Atlantic & Pacific Tea Company. 533,001, Nov. 7; Serial No. 527,373, published June 13, 1950.
Cheese. S. A. Latterie Industriali Riunite L. I. R. 533,062, Nov. 7; Serial No. 565,150, published June 20, 1950.
Cheese and butter. Tillamook County Creamery Association. 533,033, Nov. 7; Serial No. 546,251, published June 27, 1950.
Chocolate candies or an assortment thereof. Aktiebolaget Marabou. 533,088, Nov. 7; Serial No. 571,033, published June 20, 1950.
Feeds for poultry and animals. Archer-Daniels-Midland Company. 533,072, Nov. 7; Serial No. 569,037, published June 20, 1950.
Feeds, Poultry. Archer-Daniels-Midland Company. 533,073, Nov. 7; Serial No. 569,039, published June 20, 1950.
Fish, Frozen fresh. W. L. Sweeney. 533,237, Nov. 7; Serial No. 540,737.
Flour, Wheat. R. E. Clark. 277,910, renewed Dec. 2, 1950. O. G. Nov. 7.
Flour, Wheat. Commander Milling Company. 273,456, Aug. 5, 1930. Republished Nov. 7.
Flour, Wheat. The Consolidated Flour Mills Company. 533,190, Nov. 7; Serial No. 584,038, published June 20, 1950.
Flour, Wheat. General Mills, Inc. 275,828, renewed Sept. 30, 1950. O. G. Nov. 7.
Flour, Wheat. Mauser Mill Company. 533,004, Nov. 7; Serial No. 530,412, published June 27, 1950.
Flour, Wheat. Northland Milling Company. 271,383, June 3, 1930. Republished Nov. 7.
Flour, Wheat. Preston-Shaffer Milling Company. 533,061, Nov. 7; Serial No. 564,963, published June 20, 1950.
Flour, Wheat. Stoddard Mill & Grain Company. 177,734, Dec. 25, 1923. Republished Nov. 7.
Food products, Semi-prepared. Swiss American Food Co. 533,045, Nov. 7; Serial No. 553,546, published June 20, 1950.
Fruits, Fresh citrus. Ojai Orange Association. 533,031, Nov. 7; Serial No. 545,027, published June 27, 1950.
Grain products. Maple Leaf Milling Company, Limited. 268,633, Mar. 18, 1930. Republished Nov. 7.
Ice cream. G. P. Gundlach. 411,309, Jan. 9, 1945. Republished Nov. 7.
Ice cream. Wilson Ice Cream Company. 533,246, Nov. 7; Serial No. 563,707.
Macaroni, spaghetti, spaghettini and egg fusilli. Anthony Macaroni & Cracker Co. 533,016, Nov. 7; Serial No. 534,971, published June 13, 1950.
Mash, Poultry. Truesdail Laboratories, Inc. 533,222, Nov. 7; Serial No. 531,739, published June 6, 1950.
Meat products. The Theurer Norton Provision Company. 533,028, Nov. 7; Serial No. 541,604, published June 27, 1950.
Milk, Evaporated. Rochester Dairy Cooperative. 533,174, Nov. 7; Serial No. 582,649, published June 20, 1950.
Milk solids, Spray process nonfat dry. Golden State Company, Ltd. 533,022, Nov. 7; Serial No. 538,405, published June 20, 1950.
Milk, Spray process powdered whole. Golden State Company, Ltd. 533,021, Nov. 7; Serial No. 538,402, published June 20, 1950.
Noodles, vegetable noodle soup mixture, and noodle soup mixture with chicken fat. I. J. Grass Noodle Co., Inc. 533,118, Nov. 7; Serial No. 576,490, published June 6, 1950.
Nuts in the shell. Wm. A. Camp Co., Inc. 533,014, Nov. 7; Serial No. 533,989, published June 20, 1950.
Peaches, Fresh. Williams & Sons. 533,018, Nov. 7; Serial No. 536,200, published June 6, 1950.
Ravioli. Florence Ravioli Company. 266,709, renewed Jan. 28, 1950. O. G. Nov. 7.
Rice. Seaboard Rice Milling Co. 77,427, re-renewed Apr. 5, 1950. O. G. Nov. 7.
Salt. Morton Salt Company. 533,027, Nov. 7; Serial No. 540,697, published June 27, 1950.
Tankage and meat scraps. Oscar Mayer & Co., Inc. 533,224, Nov. 7; Serial No. 478,402.
Vegetables, Fresh. Hillside Ranch. 533,161, Nov. 7; Serial No. 581,767, published June 20, 1950.

CLASS 47

Champagne. G. H. Mumm & Co. 533,243, Nov. 7; Serial No. 538,577.
Wines. V. F. Coviello. 533,235, Nov. 7; Serial No. 534,754.
Wines. Schenley Distillers Corporation. 533,052, Nov. 7; Serial No. 559,376, published Aug. 1, 1950.

CLASS 48

Beer. Theo. Hamm Brewing Co. 533,200, Nov. 7; Serial No. 585,587, published Aug. 1, 1950.
Beer. Miller Brewing Company. 533,165, Nov. 7; Serial No. 582,001, published July 18, 1950.
Beverages, Fermented malt. Liebmann Breweries, Inc. 533,121, Nov. 7; Serial No. 577,198, published July 11, 1950.
Beverages, Fermented malt. Liebmann Breweries, Inc. 533,122–4, Nov. 7; Serial No. 577,199–01, published July 11, 1950.
Beverages, Malt. Qualitop Beverages, Inc. 533,166, Nov. 7; Serial No. 582,401, published Aug. 1, 1950.

CLASS 49

Whiskey. A. Smith, Bowman & Sons, Incorporated. 533,183, Nov. 7; Serial No. 583,517, published July 4, 1950.
Whiskey. Ed. Phillips & Sons Co. 533,047, Nov. 7; Serial No. 553,899, published Aug. 1, 1950.
Whiskey. Wilson Distilling Co. Inc. 361,322, Oct. 11, 1938. Republished Nov. 7.
Whiskey, Blended Scotch. Nicholas & Co., Incorporated Importers. 395,369, May 19, 1942. New certificate. O. G. Nov. 7.
Whiskey, gin, rum, etc. T. J. Pendergast Wholesale Liquor Co., Inc. 533,029, Nov. 7; Serial No. 541,741, published Aug. 1, 1950.

CLASS 50

Felts, Hair, wool, or velour, and felts of other material. B. Böhm Brüder. 270,926, renewed May 20, 1950. O. G. Nov. 7.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. Ar. Winarick, Inc. 275,460, Sept. 23, 1930. Republished Nov. 7.
Bath oil and cologne. Paul D. Newton & Co. Inc. 533,175, Nov. 7; Serial No. 582,695, published July 25, 1950.
Bleach, Hair. The Nestle Le Mur Company. 533,037, Nov. 7; Serial No. 549,568, published July 25, 1950.
Cleansing cream, steam pack cream, astringent and skin tone cream. E. M. D'Aoust. 533,143, Nov. 7; Serial No. 580,014, published July 25, 1950.
Dentifrice, hairdressing and cosmetic cream. The Procter & Gamble Company. 533,129, Nov. 7; Serial No. 577,557, published July 4, 1950.
Deodorants, Personal. The Pharma-Craft Corporation. 533,117, Nov. 7; Serial No. 576,281, published July 4, 1950.
Hair tonics. F. B. Erwin. 533,098, Nov. 7; Serial No. 573,367, published July 4, 1950.
Hormone cream. Valgarde, Inc. 533,097, Nov. 7; Serial No. 573,015, published July 18, 1950.
Lanolin and lanolin toilet preparations. Botany Worsted Mills. 409,028, Sept. 12, 1944. Republished Nov. 7.
Lipstick, powder, powder base, etc. J. Del Russo, Inc. 533,114, Nov. 7; Serial No. 575,976, published July 25, 1950.
Perfume, cologne, lipstick, etc. H. S. Grove. 533,090, Nov. 7; Serial No. 571,533, published July 18, 1950.

Perfume; preparations for cleansing the teeth; brilliantine, etc. Commanditaire Vennootschap Pento Cosmetic. 533,038, Nov. 7; Serial No. 550,123, published Nov. 15, 1949.
Perfumes and colognes. L. V. Lebedeff. 533,149, Nov. 7; Serial No. 580,369, published July 25, 1950.
Perfumes and toilet waters. Daggett & Ramsdell, Inc. 533,170, Nov. 7; Serial No. 582,521, published July 25, 1950.
Perfumes, eau de cologne, bath salts, etc. Wolff Freres, Inc. 533,058, Nov. 7; Serial No. 564,362, published July 4, 1950.
Perfumes, face creams, rouge, etc. Societe Anonyme, Bienaime. 533,034, Nov. 7; Serial No. 547,157, published July 4, 1950.
Rinse and conditioner, Hair. McBride & Hall. 444,307, Nov. 7; Serial No. 525,314, published Feb. 8, 1949.
Rinse, Liquid hair. Roux Distributing Co., Inc. 533,039, Nov. 7; Serial No. 550,741, published Aug. 1, 1950.
Skin cream. Elysee Cosmetic Manufacturing Co. 444,299, Nov. 7; Serial No. 511,269, published July 4, 1950.

CLASS 52

Anti-freeze solution, radiator cleaning and flushing compounds, sludge and carbon removing compounds, etc. Packard Motor Car Company. 533,079, Nov. 7; Serial No. 570,116, published Aug. 8, 1950.
Astringents, astringent cerates, bleach creams, etc. Ar. Winarick, Inc. 275,460, Sept. 23, 1930. Republished Nov. 7.
Chemical preparation. Thawpit Limited. 256,168, renewed May 7, 1949. O. G. Nov. 7.
Cleaning preparation, Liquid non-alkaline. Chemical Service of Baltimore. 444,303, Nov. 7; Serial No. 521,433, published Dec. 9, 1947.
Detergents, Chemical, and soaps. M. King. 433,967, Nov. 4, 1947. Republished Nov. 7.
Dishwashing compound. S. A. Hessler. 533,081, Nov. 7; Serial No. 570,253, published Aug. 8, 1950.
Drain pipe solvent. Universal Refining Products Co., Inc. 533,127, Nov. 7; Serial No. 577,292, published Aug. 1, 1950.
Expectorant medicine; eyewash; etc. Polk Miller Products Corporation. 533,071, Nov. 7; Serial No. 568,862, published July 18, 1950.
Inhibited acid. Higley Chemical Company. 533,078, Nov. 7; Serial No. 569,972, published Aug. 8, 1950.
Plastic preparation for cleaning the outer painted surfaces. N. P. Smith. 533,238, Nov. 7; Serial No. 542,976.
Powder preparation, Dry cleaner, etc. Polk Miller Products Corporation. 533,069, Nov. 7; Serial No. 568,274, published July 18, 1950.
Soap and liquid synthetic detergent. Armour and Company. 533,074, Nov. 7; Serial No. 569,043, published Aug. 8, 1950.
Soap, Solid, liquid soap, and powdered soap. K. A. Lingner. 79,133, re-renewed Aug. 9, 1950. O. G. Nov. 7.
Soapless detergent. The Perfex Company. 528,912, Aug. 8, 1950. Corrected. O. G. Nov. 7.
Soaps, Powdered. Rochester Germicide Company. 533,068, Nov. 7; Serial No. 568,216, published Aug. 8, 1950.
Solvent. Western Chemical Company. 533,167, Nov. 7; Serial No. 582,402, published Aug. 1, 1950.

CLASS 105

Railroad transportation. Union Pacific Railroad Company. 533,221, Nov. 7; Serial No. 559,869, published Aug. 8, 1950.
Towing and transportation services, Marine. Moran Towing Corporation. 533,220, Nov. 7; Serial No. 554,803, published Sept. 13, 1949.
Water transportation. Moore-McCormack Lines, Inc. 533,219, Nov. 7; Serial No. 536,275, published June 21, 1949.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Braddon, Frederick D., Babylon, N. Y., assignor to The Sperry Corporation. Gyro vertical. Re. 23,291, Nov. 7.
Craig, Burnie J., Los Angeles County, Calif. Latch for automotive vehicle doors. Re. 23,292, Nov. 7.
Sperry Corporation, The, assignee: *See*—
Braddon, Frederick D.

LIST OF PLANT PATENTEES

Howard, Fred H., deceased, Montebello, Calif., by M. J. Howard, executrix, assignor to Howard & Smith, Montebello, Calif. Rose plant. 986, Nov. 7.
Howard, Minnie J., executrix: *See*—
Howard, Fred H.
Howard & Smith, assignee: *See*—
Howard, Fred H.
Kellogg, R. M., Company, The, assignee: *See*—
Prushek, Emil.
Prushek, Emil, Niles, assignor to The R. M. Kellogg Company, Three Rivers, Mich. Chrysanthemum plant. 987, Nov. 7.

LIST OF DESIGN PATENTEES

Adler, Samuel E.: *See*—
Vistain, James E., Jr., and Adler.
Admiral Corporation, assignee: *See*—
Vistain, James E., Jr., and Adler.
Albanese, Arthur, assignor to Marvel Jewelry Mfg. Company, Providence, R. I. Expansible watch bracelet. 160,759, Nov. 7.
Baker, Haskell L.: *See*—
Marshall, Houston B., and Baker.
Bannister, Harry T., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Ornament for an automobile grille. 160,760, Nov. 7.
Bannister, Harry T., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Housing for an automobile medallion. 160,761, Nov. 7.
Bannister, Harry T., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Combined automobile lamp lens housing and grille panel. 160,762, Nov. 7.
Barrett, Jack H., Washington, D. C. Ash receiver. 160,763, Nov. 7.
Bender, Gorman L., Wichita, Kans. Combined coaster and bracket. 160,764, Nov. 7.
Berg, Jack G.: *See*—
Schear, Ralph D., and Berg.
Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Controller for toy railroads. 160,765, Nov. 7.
Booth, John G., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control panel for remote measuring and control instrument. 160,766, Nov. 7.
Brown, Charles K., Jr., Fairmont, W. Va. Combined faucet and sink. 160,767, Nov. 7.
Brutsch & Co., assignee: *See*—
Scheiwiller, Karl.
Buckingham, John D., and P. Fink, assignors to Lucien Lelong, Inc., Chicago, Ill. Decanter or similar article. 160,768, Nov. 7.
Chain Craft Co., assignee: *See*—
Deines, Erwin W.
Chrysler Corporation, assignee: *See*—
Bannister, Harry T.
Pilkey, Harold W.
Scott, David E.
Conti Products Corporation, assignee: *See*—
Singer, Lawrence H., and Corper.
Corper, Evelyn M.: *See*—
Singer, Lawrence H., and Corper.
Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Cup. 160,769, Nov. 7.
Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Sugar bowl. 160,770, Nov. 7.
Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Cover for sugar bowl. 160,771, Nov. 7.
Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Cream pitcher. 160,772, Nov. 7.
Cristofoletti, Dino J., New York, N. Y. Plaque. 160,773, Nov. 7.
Danielson, Paul F. San Marino, Calif. Sink strainer. 160,774, Nov. 7.
Deines, Erwin W., Cranston, R. I., assignor to Chain Craft Co. Jewelry chain. 160,775, Nov. 7.
Desguin, Henri, Koekelberg, and N. Sauvage, Berchem-Ste-Agathe, assignors to Fonderies Nestor Martin, Societe Anonyme, Berchem-Brussels, Belgium. Gas stove. 160,776, Nov. 7.
Dietzel, Louis H., assignor to Kansas City Centennial Association, Kansas City, Mo. Medal. 160,777, Nov. 7.
Electric Animals, Inc., assignee: *See*—
Levinson, Benjamin L.
Fink, Peter: *See*—
Buckingham, John D., and Fink.
Fink, Peter, assignor to Lucien Lelong, Inc., Chicago, Ill. Decanter or similar article. 160,778, Nov. 7.
Fink, Peter, assignor to Lucien Lelong, Inc., Chicago, Ill. Decanter or similar article. 160,779, Nov. 7.
Fonderies Nestor Martin, Societe Anonyme, assignee: *See*—
Desguin, Henri, and Sauvage.
Fostoria Glass Company, assignee: *See*—
Yutzey, Marvin G.
Friedman, Anna, New York, N. Y. Petticoat. 160,780, Nov. 7.
Giese, Albert J., Denver, Colo. Flowerpot holder or similar article. 160,781, Nov. 7.
Gist, E. W., assignee: *See*—
Marshall, Houston B., and Baker.
Greene, Carla, Chicago, Ill. Toy roly-poly or the like. 160,782, Nov. 7.
Hamilton Art Metal Corporation, assignee: *See*—
Wedemeyer, Eric.
Harrington, Gerald D.: *See*—
Shakespeare, Henry G., and Harrington.
Higginson, George J., Bronxville, assignor to Johnson Bros. (Hanley) Ltd., New York, N. Y. Plate or similar article. 160,783, Nov. 7.
Huffman, Kermit D., Phoenix, Ariz. Beverage dispensing fountain. 160,784, Nov. 7.
Huisgen, Julius, assignor to E. Leitz, Inc., New York, N. Y. Photographic slide binder. 160,785, Nov. 7.
Iwanoski, Michael, Newark, N. J. Combined ash tray, cigarette, and match holder. 160,786, Nov. 7.
Jaaj, Sardul S., New York, N. Y. Embroidered medallion for shoes or the like. 160,787, Nov. 7.
Jenkins, Howard M., Jr., Detroit, assignor to Van Auken, Inc., Ferndale, Mich. Automobile grille guard. 160,788, Nov. 7.
Johnson Bros. (Hanley) Ltd., assignee: *See*—
Higginson, George J.
Jordan, Lynvell R., Santa Monica, assignor to J. B. Nethercutt, Los Angeles, Calif. Trap shooting target. 160,789, Nov. 7.
Kansas City Centennial Association, assignee: *See*—
Dietzel, Louis H.
Kongieser, Harold G., and C. W. Weickers, Worcester, Mass. Clothes hanger. 160,790, Nov. 7.

Kushner, Max, Brooklyn, N. Y. Light fixture. 160,791, Nov. 7.
La Fever, Mortier W., Jr., New Orleans, La. Combined toy wagon and trailer. 160,792, Nov. 7.
La Roe, Cornelius J., New York, N. Y. Utility light. 160,793, Nov. 7.
Leitz, E., Inc., assignee: *See*—
Hulsgen, Julius.
Lelong, Lucien, Inc., assignee: *See*—
Buckingham, John D., and Fink.
Fink, Peter.
Levinson, Benjamin L., assignor to Electric Animals, Inc., New York, N. Y. Toy mouse. 160,794, Nov. 7.
Levinson, Benjamin L., assignor to Electric Animals, Inc., New York, N. Y. Toy elephant. 160,795, Nov. 7.
Levy, Harold, New York, N. Y. Lady's stocking. 160,796, Nov. 7.
Levy, Harold, New York, N. Y. Lady's stocking. 160,797, Nov. 7.
Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L.
Little, John M., Toledo, Ohio, assignor to Westinghouse Electric Corporation. Range. 160,798, Nov. 7.
Mandelbaum, Henry, New York, N. Y. Jacket or similar article. 160,799, Nov. 7.
Mandelbaum, Henry, New York, N. Y. Coat. 160,800, Nov. 7.
Mandelbaum, Henry, New York, N. Y. Jacket or similar article. 160,801, Nov. 7.
Marshall, Houston B., and H. L. Baker, Fort Worth, Tex., assignors to E. W. Glist, Oklahoma City, Okla. Fishing lure. 160,802, Nov. 7.
Marvel Jewelry Mfg. Company, assignee: *See*—
Albanese, Arthur.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Booth, John G.
Nethercutt, Jack B., assignee: *See*—
Jordan, Lynvell R.
Neyhard, Ernest R., Pottstown, Pa. Jewelry pendant. 160,803, Nov. 7.
Onondaga Pottery Company, assignee: *See*—
Cowan, R. Guy.
Ontra, Buddy, New York, N. Y., assignor of one-half to Yo-Jul Textiles, Inc., Doylestown, Pa. Stocking. 160,804, Nov. 7.
Otto, Carl L., New York, N. Y., assignor to Schick Incorporated, Stamford, Conn. Electric shaver. 160,805, Nov. 7.
Pilkey, Harold W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing for automobile lamps. 160,806, Nov. 7.
Roy, Milton, Company, assignee: *See*—
Saalfrank, Royal B.
Runyon, John S., San Clemente, Calif. Golf club cover. 160,807, Nov. 7.
S. F. Appliances, Limited, assignee: *See*—
Scherr, Samuel, and Smith.
Saalfrank, Royal B., Gulfport, Fla., assignor to Milton Roy Company, Chestnut Hill, Pa. Metering pump for chemical solutions or the like. 160,808, Nov. 7.
Sauvage, Nestor: *See*—
Desguin, Henri, and Sauvage.
Schear, Ralph D., and J. G. Berg, Dayton, Ohio. Wall lamp. 160,809, Nov. 7.
Scheiwiller, Karl, Rosenberg, St. Gallen, assignor to Brutsch & Co., St. Gallen, Switzerland. Sewing machine. 160,810, Nov. 7.
Scheiwiller, Karl, Rosenberg, St. Gallen, assignor to Brutsch & Co., St. Gallen, Switzerland. Sewing machine. 160,811, Nov. 7.
Scheiwiller, Karl, Rosenberg, St. Gallen, assignor to Brutsch & Co., St. Gallen, Switzerland. Mending machine. 160,812, Nov. 7.
Scherr, Samuel, and F. E. Smith, Akron, Ohio, assignors to S. F. Appliances, Limited. Fount for kerosene oil lamps. 160,813, Nov. 7.
Schick Incorporated, assignee: *See*—
Otto, Carl L.
Scott, David E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing for automobile lamps. 160,814, Nov. 7.
Scott, David E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fender ornament for an automobile. 160,815, Nov. 7.
Sebel, Harry, London, England. Chair. 160,816, Nov. 7.
Shakespeare Company, assignee: *See*—
Shakespeare, Henry G., and Harrington.
Shakespeare, Henry G., and G. D. Harrington, assignors to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 160,817, Nov. 7.
Sims, Edward J., San Francisco, Calif. Ship hull. 160,818, Nov. 7.
Singer, Lawrence H., Brooklyn, and E. M. Corper, Garden City, assignors to Conti Products Corporation, Brooklyn, N. Y. Complexion cream jar. 160,819, Nov. 7.
Slaughter, Elmer C., Piqua, Ohio. Electric motor operated centrifugal pump. 160,820, Nov. 7.
Smalley, May L., Malden, Mass. Apron. 160,821, Nov. 7.
Smith, French E.: *See*—
Scherr, Samuel, and Smith.
Van Auken, Inc., assignee: *See*—
Jenkins, Howard M., Jr.
Vistain, James E., Jr., and S. E. Adler, assignors to Admiral Corporation, Chicago, Ill. Phonograph pickup arm. 160,822, Nov. 7.
Vo-Jul Textiles, Inc., assignee: *See*—
Ontra, Buddy.
Wedemeyer, Eric, Floral Park, assignor to Hamilton Art Metal Corporation, New York, N. Y. Combined ash tray and snuffer. 160,823, Nov. 7.
Wedemeyer, Eric, Floral Park, assignor to Hamilton Art Metal Corporation, New York, N. Y. Combined ash tray and snuffer. 160,824, Nov. 7.
Wedemeyer, Eric, Floral Park, assignor to Hamilton Art Metal Corporation, New York, N. Y. Combined ash tray and snuffer. 160,825, Nov. 7.
Weickers, Charles W.: *See*—
Kongieser, Harold G., and Weickers.
Westinghouse Electric Corporation, assignee: *See*—
Little, John M.
Weston Electrical Instrument Corporation, assignee:: *See*—
Williams, Alexander T.
Whyte, Daniel D., Brooklyn, N. Y. Container for cream soap or the like. 160,826, Nov. 7.
Williams, Alexander T., Westfield, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Incident light adapter for photoelectric exposure meters. 160,827, Nov. 7.
Wright, Earl R., Comanche, Tex. Watch band. 160,828, Nov. 7.
Yutzey, Marvin G., assignor to Fostoria Glass Company, Moundsville, W. Va. Oval bowl. 160,829, Nov. 7.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbas, Joseph T., Detroit, Mich. Fuel tank lock. 2,529,361, Nov. 7.
Abberley, Maurice W.: *See*—
Ellis, Arthur G., and Abberley.
Ablett, Charles A., Norfolk, England. Ball and roller bearing. 2,528,987, Nov. 7.
Abramson, Chester C., Frostburg, Md., assignor to Celanese Corporation of America. Sizing composition for yarns. 2,528,570, Nov. 7.
Acryvin Corporation of America, assignee: *See*—
Shapiro, Carl L.
Adams, Lytle S., Los Angeles, Calif. Aerial seed distributor. 2,528,986, Nov. 7.
Adamson, Frank M.: *See*—
Cadwell, Clarence J., and Adamson.
Adkins, John S., Dayton, Ohio. Vertical gyroscope compensated for turn errors. 2,528,487, Nov. 7.
Aeppli, Albert, assignor to Maag-Zahnräder und-Maschinen Aktiengesellschaft, Zurich, Switzerland. Index device for gear grinding machines. 2,528,988, Nov. 7.
Agins, George, assignor to Arma Corporation, Brooklyn, N. Y. Servo-system. 2,529,065, Nov. 7.
Aiken, William R., Berkeley, Calif. Electrical circuit switching device. 2,529,323, Nov. 7.
Aktiebolaget Separator, assignee: *See*—
Lindgren, Hans O.
Stigen, Alf L.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Matthey-Doret, André.
Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet register mechanism. 2,529,273, Nov. 7.
Alco Valve Company, assignee: *See*—
Dube, John E., MacDougall, and Bower.
McIlvaine, Douglas K.
Alessandroni, Hugh V.: *See*—
Turner, Joseph L., and Alessandroni.
Allen, George W., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Blower. 2,529,362, Nov. 7.
Allied Chemical & Dye Corporation, assignee: *See*—
Lodes, Frederick G.
Prill, Erhard J.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Kelle, Arthur C.
Altman, Bernard, assignee: *See*—
Machleder, Irving.
Alty, Harold J.: *See*—
Partridge, William A., and Alty.
American Cyanamid Company, assignee: *See*—
Crossley, Moses L., Dreisbach, Turner, and Hofmann.
Crossley, Moses L., Turner, and Dreisbach.
Dudley, James R.
Harris, Raymond R.
Weldon, Harry A.
American Locomotive Company, assignee: *See*—
Gloyer, Walter.
American Machine & Metals, Inc., assignee: *See*—
Gaubatz, George G.
American Optical Company, assignee: *See*—
Bernheim, Daniel P.
Schauweker, George H.
Splaine, Edward M.
American Phenolic Corporation, assignee: *See*—
Goldsmith, Joseph.
Raabe, Carl A.
American Seating Company, assignee: *See*—
Hoven, Alfred C., Nordmark, and Lindberg.
American Steel Foundries, assignee: *See*—
Tack, Carl E.
American Steel and Wire Company of New Jersey, The, assignee: *See*—
Bliss, George L.
Campbell, Charles H., Ferito, and Stoker.
Chesney, Frank E.
Harter, Noah S.
Proctor, Homer G.
Ammells, John G., Haverhill, Mass. Junction box. 2,528,989, Nov. 7.
Anaconda Copper Mining Company, assignee: *See*—
Graham, Thomas K.
Anchor Hocking Glass Corporation, assignee: *See*—
Stover, Harry E.
Andersen, Tengel, Staten Island, assignor to Certified Equipment Corp., New York, N. Y. Bulldozer attachment. 2,529,208, Nov. 7.
Anderson, Guy R., Conley, assignor of five per cent to W. F. McKinley, Atlanta, Ga. Roofing and calculating square. 2,528,633, Nov. 7.
Anderson, John W., Gary, Ind., assignor to Productive Inventions, Inc. Windshield cleaner. 2,528,678, Nov. 7.
Andres, William A., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Knee operated shifting device. 2,529,442, Nov. 7.
Andress, Harry J.: *See*—
Reiff, Orland M., and Andress.
Angel, Herbert, Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Printing telegraph apparatus. 2,529,238, Nov. 7.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Partridge, William A., and Alty.
Annas, Taft T., Hickory, N. C. Block molding machine. 2,529,066, Nov. 7.
Arbetman, Arthur, Newark, N. J., assignor to Rodman Trading Corp., Little Neck, N. Y. Pocket atomizer. 2,529,239, Nov. 7.
Arenco Aktiebolag, assignee: *See*—
Nilsson, Johan G.
Arma Corporation, assignee: *See*—
Agins, George.
Armco Steel Corporation, assignee: *See*—
Clarke, William C., Jr.
Armistead, William H., assignor to Corning Glass Works, Corning, N. Y. Ophthalmic glass. 2,528,634, Nov. 7.
Armstrong Cork Company, assignee: *See*—
Powers, Paul O.
Armstrong, Werner E.: *See*—
Brown, Hugh S., Armstrong, and Reichenbach.
Arnold, Frank R., Detroit Lakes, Minn. Storage battery charging system. 2,529,123, Nov. 7.
Arnold, George B., and Louis Kovach, Beacon, assignors to The Texas Company, New York, N. Y. Solvent refining of light oils. 2,529,274, Nov. 7.
Asher, Ben C.: assignee: *See*—
Herrmann, Charles.
Askania Regulator Company, assignee: *See*—
Glass, Paul.
Associated Development & Research Corporation, assignee: *See*—
Wallach, Robert S. and I. D.
"Ateliers de Constructions Electriques de Delle," Societe Anonyme, assignee: *See*—
Fernier, Bernard M. H. P.
Ateliers Neyret-Beylier & Piccard-Pictet, assignee: *See*—
Danel, Pierre F.
Atlantic Refining Company, The, assignee: *See*—
Hunter, James B.
Atwood, Frank C., Long Beach, Calif. Copyholder. 2,528,990, Nov. 7.
Augustine, Frederick B., Jefferson, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Reaction products of diesters of dithiophosphoric acid and mineral oil compositions containing the same. 2,528,732, Nov. 7.
Auman, Maurice D., Belvidere, Ill. Bobby pin holder and opener. 2,528,991, Nov. 7.
Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Earth mover. 2,529,124, Nov. 7.
Automatic Electric Laboratories, Inc., assignee: *See*—
Balzer, Harvey W.
Clement, Milton A.
Lomax, Clarance E.
Montani, Angelo.
Newstedt, Harry N.
Pye, Harold C.
Shoopman, Bertram H.
Automotive Mufflers, Inc., assignee: *See*—
Carlson, Thomas A.
Autophon Aktiengesellschaft, assignee: *See*—
Tschumi, Otto.
Avco Manufacturing Corporation, assignee: *See*—
Norrish, John W.
Avery, B. F., & Sons Company, assignee: *See*—
Preising, William J., and Bynum.
Ayo, Jackson J., Elizabeth, and F. J. Gajewski, Linden, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Purification of alkyl phenols. 2,529,209, Nov. 7.
B & W Manufacturing Company: *See*—
Kerby, Harmon C.
Babcock, Lloyd L., Compton, and J. D. Spalding, Los Angeles, Calif., assignors to The National Supply Company, Pittsburgh, Pa. Electric tilting furnace. 2,528,571, Nov. 7.
Babcock & Wilcox Company, The, assignee: *See*—
Selnick, Eugene H.

Bach, Henry M., Woodmere, assignor to Premier Crystal Laboratories, Incorporated, New York, N. Y. Multiband superheterodyne radio receiver having a push-button station selector. 2,529,443, Nov. 7.

Bagley & Sewall Company, The, assignee: *See*—
Pearson, Charles M.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.

Bailey, Paul J.: *See*—
Kottkamp, Norman C., Bailey, Trimble, and Langsenkamp.

Balbi, Charles M. R., London, England. Earphone. 2,528,811, Nov. 7.

Balis, Earl W.: *See*—
Winslow, Arthur F., and Balis.

Ballard, Laurence O. and A. Brandt, Spokane, Wash. Spiral blade conveyor. 2,528,679, Nov. 7.

Ballard, Robert J., Lebanon, and J. A. Jackson, Indianapolis, Ind. Normally expansible anatomical diaphragm. 2,529,363, Nov. 7.

Ballard, Seaver A.: *See*—
Smith, Curtis W., and Ballard.

Balzer, Harvey W., Downers Grove, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. System for controlling automatic signaling for telephone lines. 2,529,364, Nov. 7.

Bancroft, Joseph C., Jamestown, N. Y. Awning window operating device. 2,528,572, Nov. 7.

Barber-Colman Company, assignee: *See*—
Marcellus, Brooks.

Barbera, Edmund, Howard Beach, N. Y. Inflatable display form. 2,529,125, Nov. 7.

Barksdale, George R., Troy, N. C. Liquid soap dispenser. 2,529,365, Nov. 7.

Barnes, Kenneth J., Richmond, Calif. Ground fault locating device. 2,529,126, Nov. 7.

Barr, Roy E., Childress, Tex. Toothbrush. 2,528,992, Nov. 7.

Barrows, William H., Lansing, Mich. Doll eye mechanism. 2,529,240, Nov. 7.

Barry Rober E., assignee: *See*—
Talbot, Frank A.

Barszcz, Edward W., Mosinee, Wis. Pad dispenser. 2,528,888, Nov. 7.

Bartlett, Jeffrey H., *See*—
Zimmer, John C., and Bartlett.

Bassett, Charles A. L., New York, N. Y., and E. Evertz, assignors to The Conlon Manufacturing Company, Bridgeport, Conn. Extracting the nail used for the intramedullary fixation of a fractured bone. 2,528,941, Nov. 7.

Bassist, Rudolph, New York, N. Y., assignor to Futura Fabrics Corporation. Warp knitting machine. 2,529,241, Nov. 7.

Bastian-Blessing Company, The, assignee: *See*—
Johnson, Herman K.

Batcheller, Clements, Glens Falls, N. Y. Electroplating stainless steels and irons. 2,528,717, Nov. 7.

Bauer, Wolf G., St. Louis County, Mo. Fluidizing process and mechanism. 2,529,366, Nov. 7.

Baumgarth, John, assignor to John Baumgarth Co., Chicago, Ill. Calender. 2,529,367, Nov. 7.

Baumgarth, John, Co., assignee: *See*—
Baumgarth, John.

Bazelon, Jacob L., Chicago, Ill. Cellaret having combined musical device and rotatable rack. 2,529,368, Nov. 7.

Beach, Harold W., Abilene, Kans. Dispensing closure for collapsible tubes. 2,528,993, Nov. 7.

Beach Walter A., assignor to Cardox Corporation, Chicago, Ill. Fire extinguishing system. 2,529,127, Nov. 7.

Beachy, Samuel A., Salisbury, Pa. Endless tread garden tractor. 2,529,369, Nov. 7.

Bednash, Casper S., Jersey City, N. J., and G. S. Burroughs, Forest Hills, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Indexing mechanism. 2,528,489, Nov. 7.

Beekman Industries, Inc., assignee: *See*—
Wagner, George B.

Beguhn, Mary E., Detroit, Mich. Hair curler. 2,528,994, Nov. 7.

Bell, Alfred B., Philadelphia, Pa., assignor to Heywood-Wakefield Company, Gardner, Mass. Recliner chair with leg rest. 2,528,995, Nov. 7.

Bell, David A., assignor to A. C. Cessor Limited, London England. Coupling apparatus for wireless antennas. 2,529,370, Nov. 7.

Bell, Frank R., Derby, C. A. Judson, Borrowash, near Derby, and L. Haworth, assignors to Rolls-Royce Limited, Derby, England. Power gas generator for internal-combustion power units. 2,528,635, Nov. 7.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
West, John W.

Belsey, Frederick H.: *See*—
Dabnatt, Cecil, and Belsey.

Bemiss-Jason Company, assignee: *See*—
Meller, Reginald B.

Bendix Aviation Corporation, assignee: *See*—
Hood, Edwin E.

Bendix Home Appliances, Inc., assignee: *See*—
Erler, Walter C.

Benjamin, Leonard P., Huntington, W. Va. Electric timer. 2,529,371, Nov. 7.

Bennett, Arthur F., West Barrington, G. B. Hirsch, Providence, and W. A. Gigger, Barrington, R. I., assignors to Brown and Sharpe Manufacturing Company. Gear shift control mechanism. 2,529,067, Nov. 7.

Benrus Watch Company, Inc., assignee: *See*—
Williams, Leon A.

Berch, Samuel H., Beverly Hills, assignor to The Flexible Vacuum Container Corporation, Los Angeles, Calif. Mechanism for filling, vacuumizing, and sealing containers. 2,528,680, Nov. 7.

Bergstein, Frank D., assignee: *See*—
Bergstein, Robert M.

Bergstein, Robert M., Cincinnati, Ohio, assignor to R. M. and F. D. Bergstein, trustees. Carton and making it. 2,529,128, Nov. 7.

Berlepsch, Charles A.: *See*—
Moore, Harold S., and Berlepsch.

Berman, Oscar A., New York, N. Y. Pad for the application or removal of cosmetics. 2,528,812, Nov. 7.

Bernheim, Daniel P., assignor to American Optical Company, Southbridge, Mass. Eye protection device. 2,529,068, Nov. 7.

Bernstein, Allan C., Brooklyn, N. Y. School to home system. 2,529,069, Nov. 7.

Berry, Virgil S., Moss Point, Miss. Flasher type electric flare. 2,528,490, Nov. 7.

Berssenbrugge, Willem L., The Hague, Netherlands. Optical indicator. 2,528,681, Nov. 7.

Bertrand, Frederic E., Lynn, and A. S. Clark, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine and method for use in making ribbed strips for insoles. 2,528,718, Nov. 7.

Bestehorn, Heinrich H., Easton, Pa., and J. F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Metalized ortho-hydroxy, ortho amino monoazo dyestuffs. 2,529,444, Nov. 7.

Betz, Paul L., assignor to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md. Material feeding device. 2,529,445, Nov. 7.

Betz, W. H. and L. D., assignees: *See*—
Nieland, William L., Maguire, George, and Kahler.

Beugler, Samuel B., Los Angeles, Calif. Nozzle for striping machine. 2,528,573, Nov. 7.

Binder, Thomas W., Maplewood, N. J. Air conditioning apparatus for heating and cooling. 2,528,720, Nov. 7.

Binkley, James L., Lima, Ohio. Corn planter. 2,528,996 Nov. 7.

Bjorklund, Arvid, Minneapolis, Minn. Leaf disintegrator. 2,528,942, Nov. 7.

Black, Howard C., assignor to Swift & Company, Chicago, Ill. Gum guaiac treatment. 2,529,446, Nov. 7.

Blackett, Patrick M. S., Pitcullen, Pinner Hall, and H. J. J. Braddick, Farnborough, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Bombsight. 2,529,324, Nov. 7.

Blair, John A., Pleasant Ridge, Mich., assignor to C. M. O'Leary, Los Angeles, Calif. Automatic transmission control apparatus. 2,529,129, Nov. 7.

Blampied, Philip, Flushing, N. Y. Instrument for drawing noncircular curves. 2,529,130, Nov. 7.

Blanchard, Vinson, Abington, Mass. Confection packaging machine having confection conveying means and a horizontally arranged suction means for opening bags to receive the confections. 2,528,997, Nov. 7.

Blaney, Dorothy L., Los Angeles, Calif., assignor to Radio Corporation of America. Magnetic head testing system. 2,528,682, Nov. 7.

Bliss, George L., Yardley, Pa., assignor to The American Steel and Wire Company of New Jersey. Agitating mechanism in apparatus for treating material with liquid. 2,528,851, Nov. 7.

Blumer, Adam F., and E. J. Verret, Baton Rouge, La., assignors to Standard Oil Development Company. Two-port valve for volatile liquid containers. 2,529,275, Nov. 7.

Bodinaux, Gaston, Liege, and A. Malchair, Herstal, assignors to C. Somville, Brussels, Belgium. Control device for cable control mechanisms. 2,529,447, Nov. 7.

Boeing Airplane Company, assignee: *See*—
Jacobus, Clarence E.

Boenisch, Charles J.: *See*—
Colomy, Roy H., and Boenisch.

Bohuslav, Hans, Buffalo, N. Y. Cyclic combustion gas generator. 2,529,325, Nov. 7.

Boinot, Firmin and P. Gautier, Melle, assignors to Les Usines De Melle (Societe Anonyme), Saint-Leger-les-Melle, France. Converting unfermentable sugars in vinasse to fermentable sugars. 2,529,131, Nov. 7.

Bolin, Ralph G., Houston, Tex. Water and fuel heater. 2,528,998, Nov. 7.

Booth, Morris F., Alden, Mich. Multiple temperature refrigeration. 2,528,574, Nov. 7.

Borchers, Charles T., Shelbyville, Ind. Removable body construction for toy vehicles. 2,528,852, Nov. 7.

Borden, Perry A., Woodbury, assignor to The Bristol Company, Waterbury, Conn. Mean velocity indicator. 2,528,070, Nov. 7.

Borg, George W., Corporation, The, assignee: *See*—
Newman, Herbert A.
Smith Harold A.

Borowick, Emma, New York, N. Y. Infant's stomach-binder and legging combination garment. 2,529,277, Nov. 7.

Borowick, Emma G., New York, N. Y. Brassiére. 2,529,276, Nov. 7.

Borrup, John J., West Hartford, Conn. Universal support for indicators. 2,529,071, Nov. 7.

Borthayre, Jean L. A., Bayonne, France. Automatic lighter with elongated flint. 2,529,326, Nov. 7.

Bovee, Ransom Y., Van Nuys, Calif. Creating power. 2,528,813, Nov. 7.

Bower, George D.: *See*—
Dube, John E., MacDougall, and Bower.

Bowers, Fredrick H., Kalamazoo, Mich. Combined tobacco-smoking pipe and pyrophoric lighter. 2,529,278, Nov. 7.

Bowman, John M., and P. D. Bradfield, Santa Ana, Calif. Tractor fender. 2,528,683, Nov. 7.

Bowser, Percy L., Jr.: *See*—
Venner, William M., and Bowser.

Boyce, Eugene L.: *See*—
Loewe, Peter L., and Boyce.

Boyer, Elizabeth M., executrix: *See*—
Boyer, Hugh N.

Boyer, Hugh N., deceased, near Canfield, Ohio, E. M. Boyer, executrix. Confronting wrench jaws each having normally aligned work-engaging sections pivotable to V-shape. 2,528,814, Nov. 7.

Boyer, Hugh N., deceased, near Canfield, Ohio, E. M. Boyer, executrix. Shears. 2,528,815, Nov. 7.

Boyer, Hugh N., deceased, near Canfield, Ohio, E. M. Boyer, executrix. Hedge shears. 2,528,816, Nov 7.

Braddick, Henry J. J.: *See*—
Blackett, Patrick M. S., and Braddick.

Bradfield, Paul D.: *See*—
Bowman, John M., and Bradfield.

Bradford, Leonard R., Arlington, W. W. Dunnell, Jr., Boston, and F. J. McAvinney, Dorchester, assignors, by mesne assignments, to The Reece Corporation, Boston, Mass. Buttonhole sewing mechane. 2,529,072, Nov. 7.

Bradley, Robert W., Marblehead, and R. C. Wildman, Manchester, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoemaking apparatus. 2,528,491, Nov. 7.

Bradley, Robert W., Marblehead, and C. Juhola, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoemaking apparatus. 2,528,492. Nov. 7.

Brandt, Angelus: *See*—
Ballad, Laurence O., and Brandt.

Brandt, Howard, New York, N. Y. Protective system for an overheated journal-bearing and its axle. 2,528,817, Nov. 7.

Brannon, Leila, executrix: *See*—
Brannon, Lloyd W.

Brannon, Loyd W., deceased, Norfolk, Va.; by L. Brannon, executrix, North Ingleside, Va., dedicated to the free use of the people in the territory of the United States. Insecticide comprising rotenone and (butylcarbityl) (6-propyl piperonyl) ether as a synergist therefor. 2,528,493, Nov. 7.

Brass, Edward A., Shreveport, La. Crossing gate. 2,528,733, Nov. 7.

Brass, Edward A., Shreveport, La. Retarded solenoid tractive means. 2,528,734, Nov. 7.

Breisch, Edgar W., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Vacuum tube support. 2,529,279, Nov. 7.

Breisch, Edgar W., Edgewood, and K. E. Doriot, assignors to The Union Switch and Signal Company, Swissvale, Pa. Coupling unit for communication systems. 2,529,280, Nov. 7.

Brenner, James L., San Francisco, Calif. Clothesline support. 2,528,483, Nov. 7.

Brewster, Morris B., Co. Inc., assignee: *See*—
Turner, Guilford S., Jr.

Bridger, Grover L.: *See*—
Harvey, Stewart A., and Bridger.

Briggs & Stratton Corporation, assignee: *See*—
Brown, Hugh S., Armstrong, and Reichenbach.

Bristol, Benjamin H., assignor to The Foxboro Company, Foxboro, Mass. Instrument case construction. 2,528,735. Nov. 7.

Bristol Company, The, assignee: *See*—
Borden, Perry A.

Britan, Norman: *See*—
Coffey, Charles A., Walton, and Britan.

Broadbent, John H., Baltimore, Md., assignor to the United States of America as represented by the Secretary of the Navy. Altitude responsive control device. 2,528,575, Nov. 7.

Brockman, Ellwood W., and C. D. Wagner, Tulsa, Okla. Portable rig shelter. 2,528,721, Nov. 7.

Brockman, Morton S., Cleveland, Ohio. Synchronizer. 2,528,684, Nov. 7.

Brooks, Vernon A., assignee: *See*—
Kay, John F.

Brookshier, James W., assignor to Crown Cork Specialty Corporation, Decatur, Ill. Mechanical mobile toy. 2,528,494, Nov. 7.

Brown-Brockmeyer Company, The, assignee: *See*—
Brown, Steffen S.

Brown, Harrison, Fargo, N. Dak. Rotary cultivator. 2,528,576, Nov. 7.

Brown, Hugh S., Wauwatosa, W. E. Armstrong, and J. V. Reichenbach, assignors to Briggs & Stratton Corporation, Milwaukee, Wis. Carburetor. 2,529,242, Nov. 7.

Brown, Hugh S., Wauwatosa, W. E. Armstrong, and J. V. Reichenbach, assignors to Briggs & Stratton Corporation, Milwaukee, Wis. Automatic control for carburetor throttle valves. 2,529,243, Nov. 7.

Brown, Hugh S., Wauwatosa, W. E. Armstrong, and J. V. Reichenbach, assignors to Briggs & Stratton Corporation, Milwaukee, Wis. Throttle valve for carburetors. 2,529,244, Nov. 7.

Brown, Leonard A., Vona, Colo. Self-locking wire staple. 2,528,685, Nov. 7.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Bennett, Arthur F., Hirsch, and Gigger.

Brown, Steffen S., assignor to The Brown-Brockmeyer Company, Dayton, Ohio. Motor drive unit. 2,528,686, Nov. 7.

Brown, Thoburn C. and W. R., Spokane, Wash. Rear door end assembly. 2,528,818, Nov. 7.

Brown, William R.: *See*—
Brown, Thoburn C. and W. R.

Browne-Morse Company, assignee: *See*—
Poe, William A.

Brownlee, Allen L., and T. G. Louis, assignors to Wico Electric Company, West Springfield, Mass. Arrangement of stator-plate-mounted elements of a flywheel magneto. 2,528,687, Nov. 7.

Brustowsky, Morris, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, Inc. Multiple reciprocating blade bread slicing machine. 2,528,853, Nov. 7.

Buhler, Gebruder, assignee: *See*—
Fuchs, Rudolf.

Bullard Company, The, assignee: *See*—
Bullard, Edward P., III.

Bullard, Edward P., III, Fairfield, Conn., assignor to The Bullard Company. Control mechanism. 2,528,736, Nov. 7.

Burk, Alma S. and J. A., Lynwood, Calif. Combined hook and snap fastener. 2,528,854, Nov. 7.

Burk, James A.: *See*—
Burk, Alma S. and J. A.

Burnish, Howard J., III, deceased, Dallas, Tex., and V. F. Burnish, Holyrood, Kans.; V. F. Burnish, administratrix. Pressing iron holder and cooler. 2,529,132, Nov. 7.

Burnish, Verona F., administratrix: *See*—
Burnish, Howard J., III, and V. F.

Burns, Robert, Barksdale Field, La. Toolholder. 2,529,372, Nov. 7.

Burns, Thomas C., New Orleans, La. Forming concrete piles. 2,528,999, Nov. 7.

Burroughs, Gordon S.: *See*—
Bednash, Casper S., and Burroughs.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Grant, Reginald L.

Burrows, Milford D: *See*—
Goldberg, Harry, and Burrows.

Bush, Harold L., North Syracuse, assignor to Crouse-Hinds Company, Syracuse, N. Y. Junction box. 2,529,133, Nov. 7.

Busse, Warren F., J. M. Lambert, and P. P. Debye, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Fire extinguishing composition and method. 2,529,211, Nov. 7.

Butler, Jack O.: *See*—
De Witt, John P., and Butler.

Butler, Joseph F., Pittsburgh, Pa. Cutting apparatus for wallboards and the like. 2,529,210, Nov. 7.

Butler, William F., and F. A. Cutter, Oakland, assignors to Cutter Laboratories, Berkeley, Calif. Blood filter and drip meter. 2,528,737, Nov. 7.

Buttino, Albert L., assignor to The Rauland Corporation, Chicago, Ill. Support for electron guns. 2,529,134, Nov. 7.

Bynum, Roy H.: *See*—
Preising, William J., and Bynum.

C-Eight Laboratories, assignee: *See*—
Caruso, Mario.

Cadwell, Clarence J., Carpinteria, and F. M. Adamson, Los Angeles, assignors to The Cadwell Corporation, Beverly Hills, Calif. Apparatus for use in association with two picture projector machines. 2,528,855, Nov. 7.

Cadwell Corporation, The, assignee: *See*—
Cadwell, Clarence J., and Adamson.

Caesar, Philip D.: *See*—
Sachanen, Alexander N., and Caesar.

Calabrese, Tindaro A., Woodside, N. Y. Sharpening device for scissors. 2,528,943, Nov. 7.

Calcium Carbonate Company, assignee: *See*—
McHan, Brack B.

Caldwell, Harry F., assignor to Oliver Machinery Company, Grand Rapids, Mich. Labeling machine. 2,528,856, Nov. 7.

California Fruit Growers Exchange, assignee: *See*—
Hull, Robert R.

Calkins, William G., Detroit, and E. W. Upham, Birmingham, assignors to Chrysler Corporation, Highland Park, Mich. Fuel burner flame plate. 2,528,738, Nov. 7.

Cameron, Carl F., Marcellus, Mich. Combined spectacle and utility case. 2,529,000, Nov. 7.

Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Electric induction apparatus. 2,529,133, Nov. 7.

Campbell, Charles H., Bedford, and D. S. Ferito, Cleveland, Ohio, and C. W. Stoker, Vandergrift, Pa., assignors of one-half to The American Steel and Wire Company of New Jersey and one-half to Carnegie-Illinois Steel Corporation. Treating silicon steel. 2,529,373, Nov. 7.

Campbell, Roy O., Maitland, Ontario, Canada. Fuse plug and socket. 2,528,857, Nov. 7.

Canister Company, Inc., The, assignee: *See*—
Di Cosmo, Pasquale V.

Carbodies Limited, assignee: *See*—
Orr, John H.

Cardox Corporation, assignee: *See*—
Beach, Walter A.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. High-pressure pump. 2,528,739, Nov. 7.

Carlson, George, Brooklyn, N. Y. Tightener for clothes-lines. 2,529,327, Nov. 7.

Carlson, Thomas A., Riverdale, Ga., assignor to Automotive Mufflers, Inc., Chicago, Ill. Muffler with plural perforated inner elements. 2,529,136, Nov. 7.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Campbell, Charles H., Ferito, and Stoker.
Day, Maurice J.

Carothers, Thomas A., C. B. D. Jardins, and E. J. Utz, assignors to The National Marking Machine Company, Cincinnati, Ohio. Tagging and listing machine. 2,528,740, Nov. 7.

Carpenter, Theodore H., New London, Conn., assignor to the United States of America as represented by the Secretary of the Navy. Dispensing device. 2,528,945, Nov. 7.

Carpentier, Edmond E., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Phase-inverter amplifier. 2,528,484, Nov. 7.

Carpinella, Michael J.: *See*—
Janes, Edmund D., and Carpinella.

Carrier Corporation, assignee: *See*—
Fletcher, James L.

Carter, Eddie E., Rochester, N. Y. Repeating air gun. 2,528,493, Nov. 7.

Carter, Hazel, administrator: *See*—
Carter, Raymond.

Carter, Ralph B., Company, assignee: *See*—
Kiekhoefel, Fred G., and Nemecsek.

Carter, Raymond, deceased, Wyoming, Ill., H. and R. H. Carter, administrators of said R. Carter. Mowing machine. 2,529,328, Nov. 7.

Carter, Raymond H., administrators: *See*—
Carter, Raymond.

Carter, Sidney T., assignor to Economic Machinery Company, Worcester, Mass. Picker control for label-applying machines. 2,528,944, Nov. 7.

Caruso, Mario, Maplewood, assignor to C-Eight Laboratories, Newark, N. J. Article selector and price-setting unit. 2,529,374, Nov. 7.

Case, J. I., Company, assignee: *See*—
Hedquist, Milton T.
Krauss, Norman R.
Schoenrock, Otto R.

Cashman, Edward P.: *See*—
Symers, William H., and Cashman.

Cassé, Marcel, Essonnes, France. Machine for the liquid treatment of textile materials. 2,529,001, Nov. 7.

Catalano, Frank P., J. P., and P. P., assignors to Panepinto Mfg. Corp., North Collins, N. Y. Smoking pipe. 2,528,858, Nov. 7.

Catalano, Joseph P.: *See*—
Catalano, Frank P., J. P., and P. P.

Catalano, Peter P.: *See*—
Catalano, Frank P., J. P., and P. P.

Catlin, Robert T., Stratford, and G. R. Eckstein, Milford, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Metal drawing stripper. 2,528,577, Nov. 7.

Cawl, Allen P.: *See*—
Hunter, James P., and Cawl.

Celanese Corporation of America, assignee: *See*—
Abramson, Chester C.
Seymour, George W., Ward, and Hunter.

Century Geophysical Corporation, assignee: *See*—
Hendricks, Charles E.

Certified Equipment Corp., assignee: *See*—
Andersen, Tengel.

Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Apparatus for producing vaporous ozonides. 2,529,137, Nov. 7.

Chaika, Sol N., Bronx, N. Y. Tie rack. 2,528,859, Nov. 7.

Chain Belt Company, assignee: *See*—
Zimmerman, Harold L., and Van Zeeland.

Chalkley, Lyman, Brick Township, Ocean County, N. J. Photosensitive leucocyanide composition. 2,528,496, Nov. 7.

Chenouard, Joseph, Paris, France. Filing device. 2,528,485, Nov. 7.

Cherigié, Pierre, assignor to La Cellophane, Paris, France. Idler roller drive for continuous web feeds. 2,529,281, Nov. 7.

Chesney, Frank E., Rocky River, Ohio, assignor to The American Steel and Wire Company of New Jersey. Container. 2,529,138, Nov. 7.

Chesus, Frank O.: *See*—
Richardson, Avery G., and Chesus.

Chin, Pao H., Cranford, N. J., and B. A. Knauth, Bolton, assignors to The Motorspeed Corporation, New York, N. Y. Thyratron control system. 2,528,688, Nov. 7.

Chireix, Henri, Paris, France, assignor to Societe Francaise Radio-Electrique. Power amplication system for very short waves. 2,529,073, Nov. 7.

Christopher, Andy W.: *See*—
Sitnick, Peter A., and Christopher.

Chrysler Corporation, assignee: *See*—
Calkins, William G., and Upham.
Herreshoff, Alexander G.
Neracher, Carl A.
Phelan, Hubert S.
Redenbaugh, Gerald E.
Scoville, Robert W.
Smith, Robert F.

Churchill, Donald L., assignee: *See*—
Voytershark, Frank P., and Churchill.

Clsin, Harry G., Brooklyn, N. Y. Radio receiver operable for either radio reception or telephone amplification. 2,528,636, Nov. 7.

Clapper, Clyde E., Kansas City, Mo. Umbrella. 2,528,578, Nov. 7.

Clare, Irwin C., assignor to Hercules Powder Company, Wilmington, Del. Phonograph record. 2,529,282, Nov. 7.

Claridge Food Co. Inc., assignee: *See*—
Hoffman, Julian, and Gruff.

Clark, Alfred S.: *See*—
Bertrand, Frederic E., and Clark.

Clark, Alfred S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making ribbed strips for insoles. 2,528,719, Nov. 7.

Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,528,579, Nov. 7.

Clark Equipment Company, assignee: *See*—
Hogue, Francis M.
Lapsley, Robert.

Clark, Marion T., Tulare, Calif. Drag scraper. 2,528,741, Nov. 7.

Clark, Robert A., Owensboro, Ky., assignor, by mesne assignments, to Wright Machinery Company, Durham, N. C. Article holding means. 2,528,860, Nov. 7.

Clarke, William C., Jr., Dundalk, Md., assignor to Armco Steel Corporation. Alloy steel. 2,528,497, Nov. 7.

Clarke, William C., Jr., Baltimore, Md., assignor to Armco Steel Corporation. Alloy steel. 2,528,637, Nov. 7.

Clarke, William C., Jr., Dundalk, Md., assignor to Armco Steel Corporation. Alloy steel. 2,528,638, Nov. 7.

Clasen, Arthur C., Kansas City, Kans., and H. J. Millgard, Spokane, and T. A. Phelps, Seattle, Wash. Fishing lure. 2,528,861, Nov. 7.

Clausen, Howard F.: *See*—
Walz, Claude W., and Clausen.

Clayton, Mary C., Decatur, Ga. Collapsible hoop skirt. 2,528,639, Nov. 7.

Clemens, Louis T.: *See*—
Jackson, Wilbur C., and Clemens.

Clement, Milton A., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Switching device. 2,529,375, Nov. 7.

Cleveland Patents, Incorporated, assignee: *See*—
Hickok, Robert D.

Cleveland Punch & Shear Works Co., The, assignee: *See*—
Weiland, John N.

Coca-Cola Company, The, assignee: *See*—
Harrison, Joseph S.

Coffey, Charles A., W. T. Walton, and N. Britan, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of modified alkyd resins and products. 2,528,946, Nov. 7.

Colling, James R., Danville, Ill. Pet feeder. 2,528,742, Nov. 7.

Cohen, Emanuel I., Philadelphia, Pa. Portable altar construction. 2,529,002, Nov. 7.

Cohn, Louis A., Ossining, and A. Zola, New York, N. Y. Medicament dispenser. 2,528,819, Nov. 7.

Colburn, William E.: *See*—
Wallace, Roger W., and Colburn.

Coleman, Edwin D., Maywood, Ill. Changeable graduated scale. 2,528,640, Nov. 7.

Colgate-Palmolive-Peet Company, assignee: *See*—
Hughes, Harley R., and Rice.

Collins, Fred V., Des Plaines, assignor to W. F. Stahl, Kenilworth, Ill. Power-distribution system. 2,528,722, Nov. 7.

Colomy, Roy H., Springdale, and C. J. Boenisch, Norwalk, Conn., assignors to Pratt & Gray Company, Inc. Reel driving system. 2,528,580, Nov. 7.

Colonial Broach Company, assignee: *See*—
Jessup, James L.

Colt's Manufacturing Company, assignee: *See*—
Hedges, Ellsworth C.

Columbia Broadcasting System, Inc., assignee: *See*—
Goldmark, Peter C.

Combustion Engineering-Superheater, Inc., assignee: *See*—
French, Gulver O.

Commercial Controls Corporation, assignee: *See*—
Rast, Frederick Q.

Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camargue, assignee: *See*—
Ollivier, Pierre J. M. C., and Perieres.

Conlon Manufacturing Company, The, assignee: *See*—
Bassett, Charles A. L., and Evertz.

Conover, Courtney, Silver Spring, Md., assignor to Monsanto Chemical Company, St. Louis, Mo. Purification of phthalic anhydride. 2,529,448, Nov. 7.

Consolidated Gas Electric Light and Power Company of Baltimore, assignee: *See*—
Betz, Paul L.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Flood, Edmund L.

Continental Can Company, Inc., assignee: *See*—
Johnson, Otto C.
Pfeffer, Edward C., Jr.
Seigh, Joseph W.

Continental Car-Na-Var Corporation, assignee: *See*—
Leonard, Rollen G.

Cook Electric Company, assignee: *See*—
Hasselhorn, Walter C.

Cook, Harold M., assignor to Tymatics, Inc., Dallas, Tex. Machine and method for producing bows and pompons. 2,528,820, Nov. 7.

Cooley, Lenore B., New York, N. Y. Woman's hose supporter. 2,529,074, Nov. 7.

Cooper, Robert A., Bloomington, assignor t P. M. Laymon, Spencer, Ind. Insecticide diffuser. 2, 29,245, Nov. 7.

Copeman Laboratories Company, assignee: *See*—
Copeman, Lloyd G.

Copeman, Lloyd G., Metamora, assignor to Copeman Laboratories Company, Flint, Mich. Hand tool for agricultural implements. 2,528,947, Nov. 7.

Corbett, Mitchell S., Chicago, Ill. Therapeutic plaster. 2,529,139, Nov. 7.

Corner, Eugene S., Roselle, and K. K. Kearby, Cranford, N. J., assignors to Standard Oil Development Company. Preparation of a silica-alumina-magnesia catalyst. 2,529,283, Nov. 7.

Corning Glass Works, assignee: *See*—
Armistead, William H.
Goodrich, Levi F.

Cossor, A. C., Limited, assignee: *See*—
Bell, David A.

Cotter Manufacturing Co., Inc., assignee: *See*—
Cotter, William A.

Cotter, William A., assignor to Cotter Manufacturing Co., Inc., New York, N. Y. Atomizer. 2,528,641, Nov. 7.

Cottrell, C. B., & Sons Company, assignee: *See*—
Meyer, Joseph E.

Coulter, Guy H., assignor to United Lens Corporation, Detroit, Mich. Compact relay and supporting means therefor. 2,529,212, Nov. 7.

Cover, Martin L., Allen Park, Mich., assignor to National Steel Corporation. Apparatus for conveying liquids. 2,528,642, Nov. 7.

Cox, John W., assignor to Shellmar Products Corporation, Chicago, Ill. Carton. 2,529,140, Nov. 7.

Crane Co., assignee: *See*—
Stone, Carl R., and Fredrickson.

Craton, Paul F., Long Beach, Calif. Control unit for motors with belt drives. 2,528,581, Nov. 7.

Cresale Incorporated, assignee: *See*—
Mitchell, August.

Crossley, Moses L., Plainfield, and R. J. Turner and P. F. Dreisbach, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. 9-propylalkyl-amino-5-arylaminobenzo [a] phenoxazines. 2,528,862, Nov. 7.

Crossley, Moses L., Plainfield, P. F. Dreisbach and R. J. Turner, Somerville, and C. M. Hofmann, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. 9-dialkylamino-5-arylamino [a] phenoxazines. 2,528,863, Nov. 7.

Crouch, Marshall F., assignee: *See*—
Steel, Claude G.

Crouch, Willie W.: *See*—
Schulze, Walter A., and Crouch.

Crouse-Hinds Company, assignee: *See*—
Bush, Harold L.

Crown Cork & Seal Company, Inc., assignee: *See*—
Dunn, Joseph E.

Crown Cork Specialty Corporation, assignee: *See*—
Brookshier, James W.

Crownover, Joseph W., Hartsdale, and H. A. Pearson, Mount Vernon, assignors to The Sonotone Corporation, Elmsford, N. Y. Hearing aid amplifier. 2,528,498, Nov. 7.

Cureton, Paul, Long Beach, Calif. Flatiron support mechanism. 2,528,821, Nov. 7.

Curtiss, George E., Jr., Penn Wynne, assignor to Philco Corporation, Philadelphia, Pa. Door latch. 2,528,864, Nov. 7.

Curtiss-Wright Corporation, assignee: *See*—
Kochenburger, Ralph J.
Palmatier, Everett P.
Steinberger, Arthur W.

Cutter, Fred A.: *See*—
Butler, William F., and Cutter.

Cutter Laboratories, assignee: *See*—
Butler, William F., and Cutter.

Cyphers, Elmer B.: *See*—
Mikeska, Louis A., and Cyphers.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Turntable mechanism. 2,529,376, Nov. 7.

Dale, George R., Los Angeles, Calif. Endless belt conveyer drive. 2,528,865, Nov. 7.

Danel, Pierre F., assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France. Spillway installation for dams. 2,529,141, Nov. 7.

Dannatt, Cecil, Hale, and F. H. Belsey, Stretford, Manchester, assignors to Metropolitan-Vickers Electrical Company Limited and Vickers-Armstrong Limited, London, England. Electric follow-up control system. 2,528,486, Nov. 7.

Daves, Bruner R.: *See*—
Irvine, Warren L., and Daves.

Davies, Henry, Stockton Heath, assignor to Electro-Hydraulics Limited, Warrington, Lancashire, England. Undercarriage suspension for aircraft. 2,529,377, Nov. 7.

Davies, Robert H., assignor to The Parker Appliance Company, Cleveland, Ohio. Fuel tank. 2,528,499, Nov. 7.

Davis, Lincoln K., Brockton, Mass. Cigarette lighter. 2,528,500, Nov. 7.

Davis, Phillip W., Stockbridge, Mass. Sheath for hunting knives. 2,528,501, Nov. 7.

Davis & Thompson Company, assignee: *See*—
Weimer, William H.

Dawson, James C., Jr., Kirkwood, assignor to Loose Leaf Metals Co., St. Louis, Mo. Loose-leaf binder device. 2,528,866, Nov. 7.

Dawson, Wilfred P., Detroit, Mich. Winding mechanism. 2,529,075, Nov. 7.

Day, Maurice J., Oak Park, Ill., assignor to Carnegie-Illinois Steel Corporation. Production of thermally hardenable boron-titanium steels. 2,528,867, Nov. 7.

Debye, Peter P.: *See*—
Busse, Warren F., Lambert, and Debye.

Deck, John C.: *See*—
Moyer, Wilmer L., and Deck.

Dederich, Fred S., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Conveyer gate. 2,528,868, Nov. 7.

Deere & Company, assignee: *See*—
Oehler, Alvin W.
Walz, Claude W., and Clausen.
Walz, Claude W., and Griff.
Walz, Claude W., Griff, and Clausen.

Deere Manufacturing Co., assignee: *See*—
Rich, Barrett G.

De Florez, Luis, E. K. Smith, and G. W. Hoover, U. S. Navy. Wind drift equipment. 2,528,502, Nov. 7.

De Frees, Joseph H., Warren, Pa. Safety tank closure. 2,529,329, Nov. 7.

Dehmel, Richard C., Short Hills, N. J. Radio range navigation apparatus for training aircraft personnel. 2,529,468, Nov. 7.

De Laney, James P., Chicago, Ill. Control mechanism for fire doors. 2,528,869, Nov. 7.

Des Jardins, Clarence B.: *See*—
Carothers, Thomas A., Des Jardins, and Utz.

Detrex Corporation, assignee: *See*—
Kearney, Thomas J., and McGregor.

Detrick, Walter W., Quincy, Ill. Lateral drill. 2,529,246, Nov. 7.

Detweiler, Enos A., Chicago, Ill. Floor processing device. 2,528,870, Nov. 7.

Deuschle, Basil C., Southport, assignor to The Fairfield Lumber and Supply Co., Fairfield, Conn. Headboard structure for bedsteads. 2,528,871, Nov. 7.

De Vore, Henry B., Belle Mead, N. J., assignor to Radio Corporation of America. Lens for focusing radio waves. 2,528,582, Nov. 7.

Dewey and Almy Chemical Company, assignee: *See*—
Foye, Allen B.

De Witt, John P., La Mesa, and J. O. Butler, Chula Vista, assignors of one-half to W. M. Johnson, San Diego, Calif. Belt cleaner. 2,529,003, Nov. 7.

Dick, Wade W., Shreveport, La. Adjustable domestic tool carriage. 2,528,872, Nov. 7.

Di Cosmo, Pasquale V., Hopatcong, assignor to The Canister Company, Inc., Phillipsburg, N. J. Plug-type container closure with transparent window. 2,528,948, Nov. 7.

Dilworth, Otto L., Hartford, Conn. Electric heater. 2,528,503, Nov. 7.

Distillers Company, Limited, The, assignee: *See*—
Hall, Reginald H., and Tuerck.

Dominguez, Rafael, assignee: *See*—
Hrabal, Eduard.

Doriot, Kenneth E.: *See*—
Breisch, Edgar W., and Doriot.

Dorman, James A., Elsie, Mich. Pipe chuck. 2,528,873, Nov. 7.

Double, Walter F., Wickliffe, assignor to The Euclid Road Machinery Co., Cleveland, Ohio. Double planetary drive axle. 2,529,330, Nov. 7.

Douglas Aircraft Company, Inc., assignee: *See*—
Knowles, Talbot R.

Dow Corning Corporation, assignee: *See*—
Pedersen, William W.
Smith, Earle J.

Downing, Richard E.: *See*—
Pajes, Wolf S., and Downing.

Dowty Equipment Limited, assignee: *See*—
Carey, Frederick H.

Draper Corporation, assignee: *See*—
Nichols, Edward C.

Dreisbach, Paul F.: *See*—
Crossley, Moses L., Dreisbach, Turner, and Hofmann.
Crossley, Moses L., Turner, and Dreisbach.

Dubbs, Carbon C., Orange, Calif. Process and apparatus for molding porous concrete products. 2,528,643, Nov. 7.

Dube, John E., Chesterfield, F. M. MacDougall, Kirkwood, and G. D. Bower, assignors to Alco Valve Company, University City, Mo. Thermostatic valve with multiple override. 2,529,378, Nov. 7.

Dubreuil, Joseph A. N., Pawtucket, R. I. Hand control for motor vehicles. 2,529,076, Nov. 7.

Ducruet, Arthur, Paris, France. Telephonic call magneto. 2,528,874, Nov. 7.

Dudley, James R., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Resinous composition suitable for anion exchange. 2,529,142, Nov. 7.

Dumont, Francois P. J. H., Jambes, Belgium. Arrangement for the control of a variable-speed mechanism. 2,529,379, Nov. 7.

Dunn, Ernest A., Long Beach, Calif. Automatic shutoff valve. 2,528,822, Nov. 7.

Dunn, Joseph E., Imperial, Pa., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., Baltimore, Md. Bottle filling machine. 2,528,644, Nov. 7.

Dunnell, William W., Jr.: *See*—
Bradford, Leonard R., Dunnell, Jr., and McAvinney.

Du Pont, E. I. de Nemours & Company, assignee: *See*—
Kent, Robert E.
Richards, John C.
Walker, Joseph F.

Eastern Air Devices, Inc., assignee: *See*—
Ross, Saul H.

Eberhart, John M., Punxsutawney, Pa. Sanitary liner for incubator trays. 2,529,284, Nov. 7.

Eckstein, George R.: *See*—
Catlin, Robert T., and Eckstein.

Economic Machinery Company, assignee: *See*—
Carter, Sidney T.

Edwards, Evan A., assignor to Massachusetts Institute of Technology, Cambridge, Mass. Hydraulic power transmission apparatus. 2,528,645, Nov. 7.

Eggebrecht, Edward T., Hammond, Ind. Cigarette case. 2,528,743, Nov. 7.

Eickhoff, Harold H.: *See*—
Monnik, Harmon J., and Eickhoff.

Electric Storage Battery Co., The, assignee: *See*—
Hampton, Harold J.

Electro-Hydraulics Limited, assignee: *See*—
Davies, Henry.
Lawson, Derek T.

Electro Voice, Inc., assignee: *See*—
Wiggins, Alpha M.

Eley, Virgil D., Philadelphia, Pa. Powder applicator having a powder-receiving spout and a recessed outlet accommodating a toothbrush. 2,529,004, Nov. 7.

Ellis, Arthur G., and M. W. Abberley, Stoke-on-Trent, England. Chuck. 2,529,331, Nov. 7.

Ellis, Elra, Kosciusko, Miss. Cigarette lighter. 2,528,583, Nov. 7.

Ellis-Foster Company, assignee: *See*—
Rust, John B.

Embshoff, Arthur C., Western Springs, assignor to Infilco Incorporated, Chicago, Ill. Making raw water ice. 2,528,875, Nov. 7.

Engstrom, Carl J., Michigan City, Ind., assignor to The Royal Metal Manufacturing Company, Chicago, Ill. Stool having revolving seat. 2,528,949, Nov. 7.

Engstrom, Carl J., Michigan City, Ind., assignor to The Royal Metal Manufacturing Company, Chicago, Ill. Seat cushion cover construction. 2,528,950, Nov. 7.

Epsztejn, Wulf, Brussels, Belgium. Footwear with a removable sole. 2,528,951, Nov. 7.

Ercolino, Michael: *See*—
Peterson, Glen, and Ercolino.

Erickson, Myrtle M., Longview, Wash. Writing guide for the blind. 2,529,005, Nov. 7.

Ericksson, Erik V., assignor to Marcus & Co., Aktiebolaget, Stockholm, Sweden. Tool for boring and countersinking wood. 2,529,143, Nov. 7.

Erler, Walter C., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Clutch and drive mechanism for ironing machines. 2,529,247, Nov. 7.

Euclid Road Machinery Co., The, assignee: *See*—
Double, Walter F.

Evans, Edmund A., and G. H. Porter, Pittsfield, Mass., assignors to General Electric Company. Resistance material. 2,529,144, Nov. 7.

Evans Products Company, assignee: *See*—
Farber, Eduard, and Sciascia.

Everard, Joseph J.: *See*—
Morrison, David, and Everard.

Evering, Bernard L., and E. F. Peters, assignors to Standard Oil Company, Chicago, Ill. Propylene polymerization with HF—BF_3. 2,528,876, Nov. 7.

Evertz, Eugene: *See*—
Bassett, Charles A. L., and Evertz.

Fabriks A. B. Forslund & Co., assignee: *See*—
Forslund, Johna E.

Fairfield Lumber and Supply Co., The, assignee: *See*—
Deuschle, Basil C.

Farber, Eduard and M. Sciascia, Washington D. C., assignors, by mesne assignments, to Evans Products Company, Plymouth, Mich. Preparing wooden battery separators. 2,529,006, Nov. 7.

Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Automatic transmission. 2,528,584, Nov. 7.

Farkas, Eugene J., and J. W. Rackle, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Oil pressure control for automatic transmissions. 2,528,585, Nov. 7.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Young, Norman H., Jr., Silver, and French.

Federal Telephone and Radio Corporation, assignee: *See*—
Bednash, Casper S., and Burroughs.
Pajes, Wolf S., and Downing.
Richardson, Avery G., and Chesus.

Fehr, Paul, Zug, Switzerland, assignor to Landis & Gyr A. G. Electromagnetic appliance. 2,528,744, Nov. 7.

Feiti, Rudolf, Brooklyn, assignor to Waldes Kohinoor, Inc., Long Island City, N. Y. Injection molding apparatus. 2,529,146, Nov. 7.

Felton, George F., Millers Falls, Mass. Device for holding objects. 2,529,285, Nov. 7.

Fenimore Fabrics, Incorporated, assignee: *See*—
Putnam, Robert B.

Ferguson, Gene C., Oskaloosa, Iowa. Tractor ridge leveler. 2,529,007, Nov. 7.

Ferito, Donald S.: *See*—
Campbell, Charles H., Ferito, and Stoker.

Fernier, Bernard M. H. P., Lyon, assignor to "Ateliers de Constructions Electriques de Delle," Societe Anonyme, Paris, France. Pneumatic circuit breaker. 2,529,145, Nov. 7.

Fickett, Ernest L., Fitchburg, and C. F. Wissenbach, Bolton, Mass., assignors to Fitchburg Engineering Corporation. Indexing mechanism for machine tools. 2,529,332, Nov. 7.

Findley, Donald E., Alfalfa County, Okla. Accelerating and braking control system. 2,528,504, Nov. 7.

Fink, Jean, and L. Hebbeln, Delavan, Wis., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Mechanical time fuse. 2,528,823, Nov. 7.

Finlay, Gordon R., Chippawa, Ontario, Canada, assignor to Norton Company, Worcester, Mass. Boron carbide article and making. 2,529,333, Nov. 7.

Flaher, Gerald A., assignor to The Maco Corporation, Huntington, Ind. Automatic throttle control system. 2,528,745, Nov. 7.

Fitchburg Engineering Corporation, assignee: See—
Fickett, Ernest L., and Wissenbach.

Fitzpatrick, Arthur M., Jr., Detroit, Mich. Reclining chair. 2,528,505, Nov. 7.

Fleck, Joseph, Asbury Park, N. J. Container cover and hinge. 2,529,248, Nov. 7.

Fletcher, James L., Fayetteville, assignor to Carrier Corporation, Syracuse, N. Y. Refrigerator cabinet. 2,529,380, Nov. 7.

Flexible Vacuum Container Corporation, The, assignee: *See*—
Berch, Samuel H.

Flood, Edmund L., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Saw lubricant holder. 2,529,249, Nov. 7.

Flory, Jesse D., Eaton, Ohio. Gate. 2,529,008, Nov. 7.

Flynt, Hubert E., Greenway, Ark. Peanut digger. 2,528,689, Nov. 7.

Ford, John E., Jr., Garden City, N. Y., assignor to Houdry Process Corporation, Wilmington, Del. Catalytic desulfurization and cracking of sulfur-containing petroleum. 2,528,586, Nov. 7.

Ford, John E., Jr., Garden City, N. Y., assignor to Houdry Process Corporation, Wilmington, Del. Desulfurizing Diesel fuel and similar hydrocarbon fractions. 2,528,587, Nov. 7.

Ford Motor Company, assignee: *See*—
Farkas, Eugene J.
Farkas, Eugene J., and Rackle.

Fordyce, Rufus G., Glencoe, assignor to Luminous Processes, Inc., Chicago, Ill. Stenciling machine for applying luminous paint. 2,529,250, Nov. 7.

Forslund, Johan E., assignor to Fabriks A. B. Forslund & Co., Skellieftea, Sweden. Hydraulic crane for motor vehicles. 2,528,588, Nov. 7.

Forst, Albert J., assignee: *See*—
Kowalsky, George W.

Foss, Hans L., Barron, Wis. Barn door latch. 2,529,009, Nov. 7.

Foushee, Robert M., assignor to National Slug Rejectors, Inc., St. Louis, Mo. Paramagnetic coin separator. 2,528,690, Nov. 7.

Foxboro Company, The, assignee: *See*—
Bristol, Benjamin H.

Foye, Allen B., West Bridgewater, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Container sealing compositions and forming container seals. 2,528,506, Nov. 7.

Foye, Allen B., West Bridgewater, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Container sealing compositions. 2,528,507, Nov. 7.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,529,147, Nov. 7.

Franklin Sales & Manufacturers, Inc., assignee: *See*—
Fukal, Alfred F.

Fraser-Brace Engineering Co., Inc., assignee: *See*—
Fraser, Charles E.

Fraser, Charles E., Clearwater, Fla., assignor to Fraser-Brace Engineering Co., Inc., New York, N. Y. Apparatus for releasing oil from and for removing the surfaces from citrus fruits and the like. 2,529,286, Nov. 7.

Fratt, Harry C., Norristown, Pa. Rod and reel holder. 2,529,148, Nov. 7.

Frear, William, Fox Chase, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Wave guide interconnecting device. 2,529,381, Nov. 7.

Fred, Jack C., Atlanta, Ga. Hair blocking pattern. 2,529,149, Nov. 7.

Frederick, Stephen A., Washington Township, Fayette County, Pa. Prefabricated detachable guard rail, particularly for mine tracks. 2,529,077, Nov. 7.

Fredrickson, Edward A.: *See*—
Stone, Carl R., and Fredrickson.

French, Gulver O., Maplewood, N. J., assignor to Combustion Engineering-Superheater, Inc. Boiler water drum mounting. 2,529,078, Nov. 7.

French, Hayward A.: *See*—
Young, Norman H., Jr., Silver, and French.

Frick, George P., Wayne, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,528,589, Nov. 7.

Fridén, John H., Maplewood, assignor, by mesne assignments, to Sun Tube Corporation, Hillside, N. J. Trimming machine for cups and the like. 2,529,382, Nov. 7.

Friedman, Alvin H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Polymerization of olefins. 2,529,010, Nov. 7.

Fuchs, Rudolf, Weinfelden, assignor to Gebruder Buhler, Uzwil, Switzerland. Belt-elevator overload throwout clutch. 2,529,011, Nov. 7.

Fukal, Alfred F., Cambridge, assignor to Franklin Sales & Manufacturers, Inc., Columbus, Ohio. Combined cigarette case and lighter. 2,529,150, Nov. 7.

Fuller, Everett W.: *See*—
Richter, Frederick R., and Fuller.

Futura Fabrics Corporation, assignee: *See*—
Bassist, Rudolph.

Gabel, Charles, Hawkeye, Iowa. Rubber ring expanding tool. 2,528,508, Nov. 7.

Gagnebin, Albert P.: *See*—
Millis, Keith D., Gagnebin, and Pilling.

Gajewski, Ferdinand J.: *See*—
Ayo, Jackson J., and Gajewski.

Galen, Charles F., Chesterfield, Mo. Stippling roller. 2,528,646, Nov. 7.

Garbell, Max, Los Angeles, Calif., assignor to Royal Typewriter Company, Inc., New York, N. Y. Computing machine. 2,528,647, Nov. 7.

Garlow, Harry, Flemington, N. J. Automobile mirror for providing a 360° view to the driver. 2,528,590, Nov. 7.

Garman, Raymond L.: *See*—
Pourciau, Louis L., and Garman.

Garver, Jesse A., Elgin, Ill. Sportsman's shell belt. 2,528,648, Nov. 7.

Garwood, Ernest C., Wilmington, Del. Tumbler holder. 2,529,287, Nov. 7.

Gaubatz, George G., Davenport, Iowa, assignor to American Machine & Metals, Inc., East Moline, Ill. Automatic textile washing apparatus. 2,529,334, Nov. 7.

Gautier, Pierre: *See*—
Bolnot, Firmin, and Gautier.

General Aniline & Film Corporation, assignee: *See*—
Ayo, Jackson J., and Gajewski.
Bestehorn, Henrich H., and Morgan.
Busse, Warren F., Lambert, and Debye.
Grimmel, Harry W., and Morgan.
Von Glahn, William H., and Stanley.

General Electric Company, assignee: *See*—
Camilli, Guglielmo.
Evans, Edmund A., and Porter.
Hunter, James P., and Cawl.
Kelling, Leroy U. C., and Sheets.
Langmuir, Robert V., Pollock, and Westendorp.
McConnell, Andrew J.
Moe, Robert E.
Newell, James K., Jr.
Storm, Herbert F.
Turnin, William W.
Westendorp, Willem F.
Winslow, Arthur F., and Balis.

General Motors Corporation, assignee: *See*—
Welch, Theodore R.

General Precision Laboratory Incorporated, assignee: *See*—
Gray, John W.
Pourciau, Louis L., and Garman.

Genter, Albert L., Baltimore, Md., and C. C. Kennedy, San Francisco, Calif. Sewage treatment process. 2,528,649, Nov. 7.

George, Charles B.: *See*—
Nieland, William L., Maguire, George, and Kahler.

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric relay. 2,528,591, Nov. 7.

Gibson, Frederic H., Westwood, N. J., assignor of one-half to F. H. Mahler, Bronx, N. Y. Container for carbon paper and similar sheet material. 2,529,288, Nov. 7.

Giesey, A. E., assignee: *See*—
Smith, David C., and Oblinger.

Giffin, Edward S., Auburn, Wash. Cam-operated latch mechanism. 2,528,746, Nov. 7.

Gigger, Walter A.: *See*—
Bennett, Arthur F., Hirsch, and Gigger.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grimmelsen, Herman O.
Logan, Joseph A., and Lavallee.

Gilliland, Edwin R., Arlington, Mass., assignor to Standard Oil Development Company. Preparation of an intermediate fraction with solid adsorbents. 2,529,289, Nov. 7.

Gindiesperger, William T., Erie, Pa. Adaptable threaded connecting member. 2,528,824, Nov. 7.

Glasband, Isadore, Hartford, Conn. Safety pin. 2,529,383, Nov. 7.

Glass, Marvin I., and C. L. McShane, Chicago, Ill. Dual image photograph. 2,529,151, Nov. 7.

Glass, Paul, assignor to Askania Regulator Company, Chicago, Ill. Electrical control circuit. 2,529,290, Nov. 7.

Gleekman, John I., Trenton, N. J. Rake. 2,529,012, Nov. 7.

Glover, Walter, Port Washington, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,529,013, Nov. 7.

Godshalk, James B.: *See*—
Medlar, Lewis A., and Godshalk.

Goldberg, Harry, and M. D. Burrows, assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill. Rotating cutting reel power lawn mower. 2,529,014, Nov. 7.

Goldberg, Henry, Pittsburgh, Pa. Pressure device for lens grinding machines. 2,528,952, Nov. 7.

Goldberg, Robert J., New York, N. Y. Machine with perforated rotating drum for filling cushions and pillows with air free fibrous materials. 2,528,877, Nov. 7.

Goldmark, Peter C., New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Color television. 2,528,510, Nov. 7.

Goldsmith, Joseph Lyons, assignor to American Phenolic Corporation, Chicago, Ill. Ground plane antenna. 2,529,213, Nov. 7.

Goodrich, Levi F., assignor to Corning Glass Works, Corning, N. Y. Mold charging apparatus. 2,528,509, Nov. 7.

Gosselin, Wilfrid J.: *See*—
Segee, James E., and Gosselin.

Goudime-Levkovitsch, Paul, Chertsey, and S. J. Smith, London, England, assignors to West Road Co. Limited. Liquid contents gauge. 2,529,015, Nov. 7.

Graham, David L., Philadelphia, and J. Richards, Croydon, Pa. Jig. 2,528,511, Nov. 7.

Graham, Frank A., Seattle, Wash. Wall type electric air heater and circulator. 2,528,650, Nov. 7.

Graham, Searcy J., Denver, Colo. Pocket handkerchief holding frame. 2,528,878, Nov. 7.

Graham, Thomas K., Great Falls, Mont., assignor to Anaconda Copper Mining Company, New York, N. Y. Apparatus for applying mold wash. 2,529,291, Nov. 7.

Grandjean, Pierre: *See*—
Lalanne, Edmond, and Grandjean.

Grant, Reginald L., London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Extraction of insulin. 2,529,152, Nov. 7.

Gravelle, Clarence P., Philadelphia, Pa. Automatic filling nozzle. 2,528,747, Nov. 7.

Graves, Rebecca, Spokane, Wash. Convertible bath tub appliance. 2,528,825, Nov. 7.

Gray, John W., White Plains, N. Y., assignor to General Precision Laboratory Incorporated. Shaded pole motor with thyratron control. 2,529,469, Nov. 7.

Green, Walter H.: *See*—
Paulette, Robert G., and Green.

Green, Walter H., Batavia, assignor to Infilco Incorporated, Chicago, Ill. Clarifying apparatus. 2,528,879, Nov. 7.

Greene, Frank C., Oakland, Calif., assignor to In Situ Gases Incorporated, Reno, Nev. Granular mining machine. 2,528,748, Nov. 7.

Greene, Howard B., Cheshire, assignor to Metalite, Inc., Meriden, Conn. Lipstick container. 2,529,079, Nov. 7.

Greenfield, Albert B., Philadelphia, Pa. Elevating and supporting apparatus. 2,529,292, Nov. 7.

Greenough, Maurice L., Groveland, Mass., assignor to Radio Corporation of America. Energizing circuit for servo systems. 2,528,512, Nov. 7.

Greiling, David J., assignor to McCray Refrigerator Company, Kendallville, Ind. Refrigerated self-service display case. 2,529,384, Nov. 7.

Grether, Walter F., Dayton, Ohio. Self-administering color vision test. 2,528,513, Nov. 7.

Griemsmann, John W. E.: *See*—
Weber, Ernst, and Griemsmann.

Griff, Robert D.: *See*—
Walz, Claude W., and Griff.
Walz, Claude W., Griff, and Calusen.

Grimmelsen, Herman O., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Housing and locking means therefor. 2,528,691, Nov. 7.

Grimmel, Harry W., Riegelsville, Pa., and J. F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Acid fading inhibition using N-benzylated amino-triazoles and -tetrazoles. 2,529,016, Nov. 7.

Gross, Harry E., Lorain, Ohio, assignor to National Tube Company. Tandem rotary expanding mill. 2,528,651 Nov. 7.

Gruff, Alexis: *See*—
Hoffman, Julian, and Gruff.

Gulf Research & Development Company, assignee: *See*—
Muffly, Gary.
Rocchini, Albert G., and Neely.

Gundlach, Helen F., Ebenezer, N. Y. Washable ruffled window curtain. 2,528,652, Nov. 7.

Guss, James L., Manilla, Iowa. Bobby-pin spreader and applicator. 2,529,385, Nov. 7.

Guth, Frederick A., Waverly, Ohio, and H. F. Guth, Memphis, Tenn. Vehicle actuated gate. 2,529,386, Nov. 7.

Guth, Harold F.: *See*—
Guth, Frederick A. and H. F.

Gzupkaytil, Matt, Miami, Fla. Window operator construction. 2,528,953, Nov. 7.

H-P-M Development Corporation, assignee: *See*—
Purcell, Howard M.

Haglund, Ture R., Stockholm, assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Producing Bessemer steel. 2,529,387, Nov. 7.

Hain, Max, Pittsburgh, Pa. Cable clamp. 2,529,153, Nov. 7.

Haines, William J., and R. H. Johnson, assignors to The Upjohn Company, Kalamazoo, Mich. Extraction of adrenal glands. 2,528,880, Nov 7.

Hall, Ike D., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Dehydrogenating paraffins and olefins. 2,529,293, Nov. 7.

Hall Laboratories, Inc., assignee: *See*—
Roland, Charles T.

Hall, Reginald H., Sutton, and K. H. W. Tuerck, Banstead, England, assignors to The Distillers Company, Limited. Production of dimeric condensation products from unsaturated aldehydes. 2,528,592, Nov. 7.

Hall, Thomas A., Hillsdale, Oreg. Amusement and exercising apparatus. 2,529,017, Nov. 7.

Ham, George E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Composition comprising polymerized acrylonitrile and solvent therefor. 2,529,449, Nov. 7.

Hammond, Eugene H., Berwyn, and G. D. Wetherbee, Chicago, Ill.; said Wetherbee assignor to said Hammond. Heating system. 2,529,154, Nov. 7.

Hammond, Gordon, Ashland, and R. E. Jacke, assignors to Reynolds Metals Company, Richmond, Va. Accelerating the freezing of foods. 2,529,388, Nov. 7.

Hammond, John H., Jr., Gloucester, Mass. Garment hanger. 2,529,294, Nov. 7.

Hampton, Harold J., Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Co. Making wood separators for lead-acid electric accumulators. 2,529,389, Nov. 7.

Hancharik, William P., Upper Black Eddy, Pa. Dowel making machine. 2,529,018, Nov. 7.

Hane, Gus, Chico, Calif. Arrow projecting toy gun. 2,528,723, Nov. 7.

Hang-All Corporation, assignee: *See*—
Seidler, Carl.

Hannifin Corporation, assignee: *See*—
Peterson, Victor W., and Maha.

Hanson, Russell O., Los Angeles, Calif., and W. F. Saars, East Haven, Conn., assignors to the United States of America as represented by the Secretary of the Navy. Recording equipment having an adjustable advance ball. 2,528,820, Nov. 7.

Harbaugh, Willis E.: *See*—
Reilly, Gerard J., and Harbaugh.

Harbert, Otis D., West Covina, Calif. Door latch. 2,528,954, Nov. 7.

Hardy, Maurice E., Chicago, Ill., assignor to Zenith Radio Corporation. Two-speed turntable drive. 2,529,019, Nov. 7.

Harper, Elmer E., deceased, Monrovia, Calif.: E. P. Harper, executrix. Volumetric gas feeding apparatus. 2,529,251, Nov. 7.

Harper, Elmer E., deceased, Monrovia, Calif.: E. P. Harper, executrix. Pressure actuated control mechanism. 2,529,252, Nov. 7.

Harper, Esther P., executrix: *See*—
Harper, Elmer E.

Harris, Raymond R., Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Copolymerization of unsaturated alkyd resin in the presence of aromatic sulfonic acid promoter. 2,529,214, Nov. 7.

Harrison, Joseph S., Marietta, Ga., assignor to The Coca-Cola Company, Wilmington, Del. Forming signs. 2,528,827, Nov. 7.

Harshaw Chemical Company, The, assignee: *See*—
Moy, Paul W., and Karash.
Unkefer, Gilbert G.

Hart, Raymond S., Brooklyn, N. Y. Contactor. 2,529,080, Nov. 7.

Harter, Noah S., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Weft wire feed mechanism. 2,528,881, Nov. 7.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Carpenter, Edmond E.

Harvey, Stewart A., near Sheffield, Ala., and G. L. Bridger, Ames, Iowa, assignors to Tennessee Valley Authority. Manufacture of superphosphate. 2,528,514, Nov. 7.

Hasselhorn, Walter C., assignor to Cook Electric Company, Chicago, Ill. Method of and means for removing contamination from an atmosphere controlled furnace. 2,529,155, Nov. 7.

Hatfield, L. Shirl, administrator: *See*—
Moyer, Wilmer L., and Deck.

Hauer, Arthur, Detroit, Mich. Corner truck unit. 2,529,390, Nov. 7.

Hawkins, Henry L., Jr., assignee: *See*—
Hawkins, Henry L., Sr.

Hawkins, Henry L., Sr., Gladys, assignor of twenty per cent to H. L. Hawkins, Jr., and twenty per cent to R. L. Hawkins, Campbell, Va. Latch for windows. 2,529,020, Nov. 7.

Hawkins, Richard L., assignee: *See*—
Hawkins, Henry L., Sr.

Haworth, Lionel: *See*—
Bell, Frank R., Judson, and Haworth.

Hayward, John T., Tulsa, Okla. Logging wells. 2,528,882, Nov. 7.

Hayward, John T., Tulsa, Okla. Weight on bit indicator. 2,528,883, Nov. 7.

Hayward, John T., Tulsa, Okla. Radio-activity logging of wells. 2,528,955, Nov. 7.

Hayward, John T., Tulsa, Okla. Detection of washouts in rotary drilling strings. 2,528,956, Nov. 7.

Hebbeln, Louis: *See*—
Fink, Jean, and Hebbeln.

Hedges, E. Warren, administrator: *See*—
Hedges, Ellsworth C.

Hedges, Ellsworth C., deceased, late of West Hartford, Conn.; by E. W. Hedges, administrator, Manchester, Conn., assignor to Colt's Manufacturing Company. Bolt mechanism for machine guns. 2,529,391, Nov. 7.

Hedquist, Milton T., Rock Island, Ill., assignor to J. I. Case Company, Racine, Wis. Pump throwout device. 2,528,853, Nov. 7.

Heeren, Martin H., assignor to National Cylinder Gas Company, Chicago, Ill. Dispensing container for acetylene. 2,528,692, Nov. 7.

Heigis, Henry E., Nutley, assignor to Specialties Development Corporation, Bloomfield, N. J. Siren. 2,528,515, Nov. 7.

Helland, John G., and R. E. L. Moen, Skien, Norway. Preparation of a heat insulating material from peat. 2,529,335, Nov. 7.

Heller, Richard L., Los Angeles, Calif. Check protector. 2,529,021, Nov. 7.

Heller, Richard L., Los Angeles, Calif. Check protector. 2,529,022, Nov. 7.

Helms, Warren V., La Jara, Colo. Potato digging and separating machine. 2,529,023, Nov. 7.

Hemovich, Joseph M., Sunnyvale, Calif. Can feeding machine. 2,528,884, Nov. 7.

Henderson, Lee R., assignor of one-half to A. C. Seago, Kosmos, Wash. Tree planter. 2,529,336, Nov. 7.

Hendricks, Charles E., Tulsa, Okla., assignor to Century Geophysical Corporation. Automatic volume control circuit. 2,528,885, Nov. 7.

Henry, Austin L., Spokane, Wash. Appliance for correcting examination papers. 2,528,828, Nov. 7.

Henry, Earle G., Wilmette, Ill. Lettering pen. 2,529,156, Nov. 7.

Hercules Powder Company, assignee: *See*—
Clare, Irwin C.

Herreshoff, Alexander G., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Support for rear axle differentials. 2,329,392, Nov. 7.

Herrmann, Charles, Los Angeles, Calif., assignor, by mesne assignments, to B. C. Asher, Brooklyn, N. Y. Amusement device. 2,328,516, Nov. 7.

Herzfeld, Simon H., and M. Kleiman, assignors to Velsicol Corporation, Chicago, Ill. 1,2-dihydroxy-4,5,6,7,8,8-hexahalo-4,7-methano-3a,4,7,7a-tetrahydroindane and preparing same. 2,528,654, Nov. 7.

Herzfeld, Simon H. and E. P. Ordas, assignors to Velsicol Corporation, Chicago, Ill. 1-acyloxy-4,7-methano-3a,4,7,7a-tetrahydro-4,5,6,7,8,8-hexachloroindenes and producing the same. 2,528,655, Nov. 7.

Herzfeld, Simon H., and E. P. Ordas, assignors to Velsicol Corporation, Chicago, Ill. 1-hydroxy-4,7-methano-3a,4,7,7a-tetrahydro-4,5,6,7,8,8-hexachloroindene and preparing same. 2,528,656, Nov. 7.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Radioactive mensuring. 2,528,724, Nov. 7.

Heywood-Wakefield Company, assignee: *See*—
Bell, Alfred B.

Hicke, Gerald E., assignor to The Trane Company, La Crosse, Wis. Heat exchanger. 2,529,215, Nov. 7.

Hickerson, James W., Sr., Archer City, Tex. Rat hole drilling device. 2,528,593, Nov. 7.

Hickok, Robert D., Bratenahl, assignor to Cleveland Patents, Incorporated, Cleveland, Ohio. Indicating dial for photoelectric light meters. 2,529,337, Nov. 7.

Higerd, Robert J., assignor to Kennametal Inc., Latrobe, Pa. Routing tool. 2,529,157, Nov. 7.

Hill, Leonard C., assignee: *See*—
Northrup, Weaver L.

Hills, Elsie E., Sea Bright, N. J. Collapsible baby crib. 2,528,749, Nov. 7.

Hintersteiner, Marguerite H., New York, N. Y. Ornamental screen. 2,528,829, Nov. 7.

Hirsch, George B.: *See*—
Bennett, Arthur F., Hirsch, and Gigger.

Hitzeman, Harry H., assignee: *See*—
Kay, John F.

Hobe, Edward T., Sr., Erie, Mich. Paint applicator. 2,528,657, Nov. 7.

Hoe, R. & Co., Inc., assignee: *See*—
Albrecht, Alexander J.

Hoffman, Julian, New York, and A. Gruff, Flushing, assignors to Claridge Food Co. Inc., Murray Hill, N. Y. Apparatus for cooking and canning meat patties. 2,529,253, Nov. 7.

Hoffman, Manfred T., Newburyport, Mass., and J. T. O'Connor, Plainfield, N. J., assignors to Merrimac Hat Corporation, Amesbury, Mass. Tubular body forming apparatus. 2,529,217, Nov. 7.

Hofmann, Corris M.: *See*—
Crossley, Moses L., Dreisbach, Turner, and Hofmann.

Hogue, Francis M., Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Fluid control means for auxiliary transmissions. 2,529,393, Nov. 7.

Holhouser, Robert J., assignee: *See*—
Steel, Claude G.

Holley, Earl, assignee: *See*—
Orr, Andrew W., Jr.

Holley, George M., assignee: *See*—
Orr, Andrew W., Jr.

Hood, Edwin E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Heavy-duty coaster brake. 2,529,216, Nov. 7.

Hood, John W., Ridgewood, N. J. Purification treatment. 2,529,295, Nov. 7.

Hoog, Han: *See*—
't Hart, Marius, Hoog, and Weeda.

Hoover, Curtis R., Edmonton, Alberta, Canada. Overhead shovel loader. 2,529,338, Nov. 7.

Hoover, George W.: *See*—
De Florez, Luis, Smith, and Hoover.

Hormats, Saul, Baltimore, Md. Impregnated protective charcoal and its manufacture. 2,528,517, Nov. 7.

Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring and controlling system. 2,529,450, Nov. 7.

Houdry Process Corporation, assignee: *See*—
Ford, John E., Jr.
Bonnik, Harmon J., and Eickhoff.

Hoven, Alfred C., W. E. Nordmark, and W. S. Lindberg, assignors to American Seating Company, Grand Rapids, Mich. Retracting type theater chair. 2,529,451, Nov. 7.

Howell, Clifford B., assignee: *See*—
Sitnick, Peter A., and Christopher.

Hrabal, Eduard, assignor of thirty-five per cent to R. Dominguez, Washington, D. C. Culinary fork. 2,528,658, Nov. 7.

Huber, Franz J., Dayton, Ohio. True air-speed computer. 2,528,518, Nov. 7.

Huber, Paul: *See*—
Williams, Alexander T., and Huber.

Huddleston, Charlie, assignee: *See*—
Menser, Henry E.

Hughes, Harley R., Anchorage, Ky., and C. D. Rice, Omaha, Nebr., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Apparatus for rejecting improperly filled soap containers. 2,529,081, Nov. 7.

Hull, Matthew R., Connersville, Ind. Abdominal muscle exerciser. 2,528,750, Nov. 7.

Hull, Robert R., Pasadena, assignor, by mesne assignments, to California Fruit Growers Exchange, Los Angeles, Calif. Liquid vending apparatus. 2,529,394, Nov. 7.

Hummel, Frederick E., Chicago, Ill. Coffee maker and dispenser. 2,529,395, Nov. 7.

Hunsdorf, William F., Cleveland, Ohio. Collet chuck. 2,529,218, Nov. 7.

Hunt, Robert E., Grosse Pointe Park, Mich. Tool support. 2,529,396, Nov. 7.

Hunter, James B., Upper Darby, assignor to The Atlantic Refining Company, Philadelphia, Pa. Preparation of acid adsorptive alumina. 2,528,751, Nov. 7.

Hunter, James P., Eastlake, and A. P. Cawl, Painesville, Ohio, assignors to General Electric Company. Suction cleaner demother. 2,529,158, Nov. 7.

Hunter, Robert L.: *See*—
Seymour, George W., Ward, and Hunter.

Husy, Walter, Zurich, Switzerland. Device on automotive vehicles for preventing the inadvertent backward motion of the vehicle. 2,528,957, Nov. 7.

Hyler, Loiell L., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Earth moving equipment. 2,529,159, Nov. 7.

Iliff, Kathryn C., Kansas City, Mo. Powdered soap container. 2,528,830, Nov. 7.

Industriaktiebolaget Luxor, assignee: *See*—
Wennerbo, Erik.

Inflico Incorporated, assignee: *See*—
Embshoff, Arthur C.
Green, Walter H.
Paulette, Robert G., and Green.

In Situ Gases Incorporated, assignee: *See*—
Greene, Frank C.

International Nickel Company, Inc., The, assignee: *See*—
Millis, Keith D., Gagnebin, and Pilling.

Irvine, Warren L., and B. R. Daves, Claremont, Calif. Blower for frost prevention. 2,529,339, Nov. 7.

Ives, Clifford B., Tenafly, assignor to Kieley & Mueller, Inc., North Bergen, N. J. Controller. 2,529,254, Nov. 7.

Jacke, Raymond E.: *See*—
Hammond, Gordon, and Jacke.

Jackson, James A.: *See*—
Ballard, Robert J., and Jackson.

Jackson, Wilbur C., Oak Park, Ill., assignor to Motorola, Inc. Tuning device. 2,528,519, Nov. 7.

Jackson, Wilbur C., Oak Park, and L. T. Clemens, Chicago, Ill., assignors to Motorola, Inc. Solenoid operated switch. 2,528,520, Nov. 7.

Jacobus, Clarence E. Kent, assignor to Boeing Airplane Company, Seattle, Wash. Control linkage mechanism. 2,528,752, Nov. 7.

Jaffe, Elias, New York, N. Y. Luggage handle comprising two complementary and interlocked hollow sections individually covered. 2,528,831, Nov. 7.

Janes, Edmund D., and M. J. Carpinella, assignors to Scovill Manufacturing Company, Waterbury, Conn. Adjustable buckle holder. 2,529,452, Nov. 7.

Jarrett, Harry M., East Hartford, Conn. Safety latch for automobile doors. 2,529,340, Nov. 7.

Jaynes, Hal B., Lenoir, N. C. Electrically operated speedometer for automotive vehicles. 2,529,082, Nov. 7.

Jessup, James L., Detroit, assignor to Colonial Broach Company, Warren Township, Mich. Index head for rotary spindles. 2,528,753, Nov. 7.

Jobe, Charles A., Oakland, Calif. Hydromassage device. 2,529,255, Nov. 7.

Johnson, Albert L., St. Paul, Minn., and S. A. Kraft, Milwaukee, Wis., assignors to Johnson Power-On Transmission Corporation, St. Paul, Minn. Hydraulic transmission control. 2,529,160, Nov. 7.

Johnson, Arthur A., and H. G. Lehmann, assignors to The Red Star Company, Bridgeport, Conn. Clasp. 2,529,453, Nov. 7.

Johnson, Ava J., Oakland, assignor to Shell Development Company, San Francisco, Calif. Production of aromatic hydrocarbons by dehydrogenation of naphthenes. 2,528,693, Nov. 7.

Johnson, Dallas H., Lakewood, Ohio. Device for binding the edges of lantern slide assemblies or similar articles. 2,528,754, Nov. 7.

Johnson, Harry G., and L. M. Kalous, Oshkosh, Wis., assignors to United States Motors Corporation. Boat rudder and reversible pitch propeller assemblage. 2,528,755, Nov. 7.

Johnson, Herman K., Grand Haven, Mich., assignor to The Bastian-Blessing Company, Chicago, Ill. Article refrigeration. 2,529,470, Nov. 7.

Johnson, James D., Baltimore, Md. Tape dispenser. 2,528,958, Nov. 7.

Johnson, Otto C., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Preparing and packaging bacon. 2,528,832, Nov. 7.

Johnson Power-On Transmission Corporation, assignee: *See*—
Johnson, Albert L., and Kraft.

Johnson, Richard H.: *See*—
Haines, William J., and Johnson.

Johnson, S. C., & Son, Inc., assignee: *See*—
Dederich, Fred S.

Johnson, Wallace M., assignee: *See*—
De Witt, John P., and Butler.

Jones, Carmen D., Arlington, Va. Tip-delivering bowling ball. 2,529,024, Nov. 7.

Jones, Taze W., Frederick, and G. M. Loveland, Denver, Colo.; said Jones assignor to said Loveland. Beet topping attachment for tractors. 2,528,886, Nov. 7.

Judson, Charles A.: *See*—
Bell, Frank R., Judson, and Haworth.

Juhola, Carl: *See*—
Bradley, Robert W., and Juhola.

Kahler, Harry L.: *See*—
Nieland, William L., Maguire, George, and Kahler.

Kahn, Leo M., Island Park, N. Y. Laundry machine. 2,528,594, Nov. 7.

Kahn, Leo M., Brooklyn, N. Y. Shiftable support for ironers. 2,528,595, Nov. 7.

Kailenta, John, Staten Island, N. Y. Sprayer regulator. 2,529,341, Nov. 7.

Kaiser, Herman F., Washington, D. C. Radiographic unit. 2,528,521, Nov. 7.

Kalous, Leonard M.: *See*—
Johnson, Harry G., and Kalous.

Karash, Walter P.: *See*—
Moy, Paul W., and Karash.

Käser, Albert, Zug, Switzerland, assignor to Landis & Gyr, A. G. Toggle-lever switch. 2,528,756, Nov. 7.

Katz, Sidney H., Edgewood Arsenal, Md. Producing and recovering fine carbon smoke particles and apparatus therefor. 2,528,522, Nov. 7.

Kaufman, Charles H., San Antonio, Tex. Lawn rake. 2,529,025, Nov. 7.

Kay, John F., assignor of one-third to said Kay, one-third to V. A. Brooks, and one-third to H. H. Hitzeman, Chicago, Ill. Wardrobe hanger. 2,529,296, Nov. 7.

Kearby, Kenneth K.: *See*—
Corner, Eugene S., and Kearby.

Kearney, Thomas J., and F. E. McGregor, assignors to Detrex Corporation, Detroit, Mich. Mechanism for loading and unloading. 2,529,297, Nov. 7.

Keefe, Lincoln M., Brooklyn, N. Y. Apparatus for making records. 2,529,083, Nov. 7.

Keel, Eugène, Brussels, Belgium. Concrete mixer. 2,529,256, Nov. 7.

Kelle, Arthur C., Stoughton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker control system and apparatus. 2,528,694, Nov. 7.

Kelley, Kork, Wichita Falls, Tex. Well pump. 2,528,833, Nov. 7.

Kelling, Leroy U. C., and L. H. Sheets, Schenectady, N. Y., assignors to General Electric Company. Register control system. 2,529,161, Nov. 7.

Kellogg Switchboard and Supply Company, assignee: *See*—
Rose, Morris, and Zak.

Kelly, Edmund P., assignee: *See*—
Sale, William H.

Kendall Company, The, assignee: *See*—
Secrist, Horace A.

Kennametal Inc., assignee: *See*—
Higerd, Robert J.

Kennedy, Clyde C.: *See*—
Genter, Albert L., and Kennedy.

Kent, Robert E., Upper Montclair, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Extruding and insolubilizing polymers of ethylene. 2,528,523, Nov. 7.

Kerby, Harmon C., assignor to W. Skirvin and B. K. Reeves, doing business as B & W Manufacturing Company, Indianapolis, Ind. Paintbrush holder. 2,529,257, Nov. 7.

Kestell, Thomas A., Thurmaston, assignor to Power Jets (Research & Development) Limited, London, England. Apparatus for profiling operations. 2,529,026, Nov. 7.

Kiekhoefel, Fred G., Astoria, and L. J. Nemecsek, New York, N. Y., assignors to Ralph B. Carter Company, Hackensack, N. J. Purifying sewage and the like. 2,528,887, Nov. 7.

Kieley & Mueller, Inc., assignee: *See*—
Ives, Clifford B.

Kier, Kenneth B., Middletown, Pa. Vehicle suspension system. 2,529,162, Nov. 7.

Kimberlin, Charles N., Jr.: *See*—
Richardson, Roger W., and Kimberlin, Jr.

Kindler, George, St. Louis, Mo. Door key fastener. 2,528,737, Nov. 7.

King, Barnwell R., Flushing, N. Y., assignor to The Linde Air Products Company. Gas shielded induction fusion welding process. 2,528,758, Nov. 7.

King, Donald M., assignor of one-half to Geo. W. King Limited, Hitchin, England. Chain guard. 2,529,084, Nov. 7.

King, Geo. W., Limited, assignee: *See*—
King, Donald M.

King, Thomas, Youngstown, Ohio. Score card holder. 2,528,695, Nov. 7.

Kingston, George A., Minneapolis, Minn. Reinforcing means of shipping frangible tubes. 2,528,959, Nov. 7.

Kinney, Layton C.: *See*—
Thorp, Clark E., and Kinney.

Kleiman, Morton: *See*—
Herzfeld, Simon H., and Kleiman.

Klein, Ben, and C. Miller, assignors to Varden Dress, Inc., New York, N. Y. Garment construction. 2,528,834, Nov. 7.

Klíma, Vilém, Prague, assignor of one-half to Moravian Electrical Engineering Works, National Corporation, Olomouc, Czechoslovakia. Squirrel-cage armature of induction motor with bridge resistance. 2,528,960, Nov. 7.

Klingens, Cornelis, La Porte, Ind., assignor to U. S. Slicing Machine Company, Inc. Reciprocating receiving tray for meat slicing machines. 2,528,888, Nov. 7.

Knauth, Berthold A.: *See*—
Chin, Pao Hsiung, and Knauth.

Knight, Frank W., Somerville, Mass. Shoe polishing kit. 2,529,103, Nov. 7.

Knipe, Wilbur F., Lubbock, Tex. Gas blowtorch. 2,529,104, Nov. 7.

Knowles, Talbot R., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Rivet feeding device. 2,529,165, Nov. 7.

Knox, Harry A.: *See*—
Strickland, Raymond I., and Knox.

Kochenburger, Ralph J., Montclair, N. J., assignor to Curtiss-Wright Corporation. Control system. 2,529,085, Nov. 7.

Koehring Company, assignee: *See*—
Robb, John F.

Kohl, Arthur L., assignor to Turco Products, Inc., Los Angeles, Calif. Solution concentration indicator. 2,528,889, Nov. 7.

Kopplin, Clarence L. and P. C., Waterloo, Iowa. Extension handle for shovels and the like. 2,529,342, Nov. 7.

Kopplin, Paul C.: *See*—
Kopplin, Clarence L. and P. C.

Kost, Harold W., assignor, by mesne assignments, to Prestole Corporation, Toledo, Ohio. Fastener for stems or the like. 2,529,219, Nov. 7.

Kottkamp, Norman C., and P. J. Bailey, Indianapolis, J. M. Trimble, Lebanon, and R. M. Langsenkamp assignors to The Langsenkamp-Wheeler Brass Works, Inc., Indianapolis, Ind. Milk sampling apparatus. 2,529,397, Nov. 7.

Kovach, Louis: *See*—
Arnold, George B., and Kovach.

Kowalsky, George W., assignor of one-half to A. J. Forst, Wisconsin Rapids, Wis. Smoking pipe. 2,528,961, Nov. 7.

Kraft, Selmer A.: *See*—
Johnson, Albert L., and Kraft.

Krakowski, Stanley, Newark, N. J. Crowing toy cock. 2,528,759, Nov. 7.

Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Cutter bar for harvesters. 2,528,659, Nov. 7.

Kreuz, Kenneth L., Beacon, and R. L. Sanderson, Fishkill, assignors to The Texas Company, New York, N. Y. Sulfuric acid alkylation of thiophene compounds. 2,529,298, Nov. 7.

Krieck, James H., Westport, Conn. Water purifying and conditioning apparatus. 2,529,398, Nov. 7.

Kruck, Ralph E., Springfield, Mass. Applicator for rouge and the like. 2,529,399, Nov. 7.

Kruckenberg, Fred E., Fort Wayne, Ind. Roller transporting device for heavy objects. 2,528,760, Nov. 7.

Kurtz, Jacob, Teaneck, N. J., and J. D. Waldie, New York, N. Y., assignors, by mesne assignments, to Sylvania Electric Products, Inc. Weld timer. 2,528,835, Nov. 7.

La Cellophane, assignee: *See*—
Cherigié, Pierre.

Lake, George R., and J. M. Stribley, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Azeotropic distillation of ethyl alcohol from methyl ethyl ketone. 2,528,761, Nov. 7.

Lalanne, Edmond, and P. Grandjean, Marseilles, France. Run repairing needle. 2,528,762, Nov. 7.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Threaded self-locking device. 2,529,343, Nov. 7.

Lamb, Charles, South Pasadena, assignor to Zelam Rubber Cement Plug Co., Los Angeles, Calif. Core extractor. 2,529,027, Nov. 7.

Lambach, Fritz, Tenafly, assignor to Robert Reiner, Inc., Weehawken, N. J. Pattern mechanism of knitting machines. 2,528,524, Nov. 7.

Lambert, Joseph M.: *See*—
Busse, Warren F., Lambert, and Debye.

Landis & Gyr A. G., assignee: *See*—
Fehr, Paul.
Kilser, Albert.

Landon, Everett W., San Mateo, assignor to Landon Standard Pools, Belmont, Calif. Chemical feeder. 2,529,028, Nov. 7.

Landon Standard Pools, assignee: *See*—
Landon, Everett W.

Langmuir, Robert V., H. C. Pollock, and W. F. Westendorp, Schenectady, N. Y., assignors to General Electric Company. Electron accelerator provided with starting auxiliary. 2,528,525, Nov. 7.

Langsenkamp, Robert M.: *See*—
Kottkamp, Norman C., Bailey, Trimble, and Langsenkamp.

Langsenkamp-Wheeler Brass Works, Inc., The, assignee: *See*—
Kottkamp, Norman C., Bailey, Trimble, and Langsenkamp.

Lants, Robert, and M. Moinard, nee M. Colomb, assignors to Societe Anonyme de Matieres Colorantes, et Produits Chimiques Francolor, Paris, France. Diazotypes containing diazo-sulfonates. 2,529,029, Nov. 7.

La Plant-Choate Manufacturing Co., Inc., assignee: *See*—
Austin, Ellsworth W.
Hyler, Loiell L.

Lappe, Anna M., executrix: *See*—
Lappe, Edward, Jr.

Lappe, Edward, Jr., deceased, Scarsdale, N. Y.: A. M. Lappe, executrix of said E. Lappe, Jr. Dispenser for salt or the like. 2,529,472, Nov. 7.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Fluid impact coupling and clutch. 2,529,400, Nov. 7.

Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Distillation control by refractive index. 2,529,030, Nov. 7.

Lavallee, Eugene V.: *See*—
Logan, Joseph A., and Lavallee.

Lavanish, Michael, Cleveland, Ohio. Tie clasp and article holder. 2,528,527, Nov. 7.

Lavere, Thomas L., Bethel, Vt. Sink trap plug. 2,528,660, Nov. 7.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Making fine mesh screens. 2,529,086, Nov. 7.

Lawrence, Robert A., Brimley, Mich. Snow tractor. 2,528,890, Nov. 7.

Lawson, Derek T., Liverpool, assignor to Electro-Hydraulics Limited, Warrington, England. Retractable undercarriage for aircraft. 2,529,401, Nov. 7.

Lawson, Herbert E., Silver Spring, Md. Primary battery depolarizer and making the same. 2,528,891, Nov. 7.

Laymon, Paul M., assignee: *See*—
Cooper, Robert A.

Leake, James M., Monroe, Mich. Mower guard. 2,529,087, Nov. 7.

Leake, James M., Monroe, Mich. Making one-piece angular frame members. 2,529,088, Nov. 7.

Leake, James M., Monroe, Mich. Engine rocker arm. 2,529,089, Nov. 7.

Ledbetter, James C.: *See*—
Machleder, Irving.

Lee-Rowan Company, assignee: *See*—
Rowan, John V.

Leeds and Northrup Company, assignee: *See*—
Moore, John H.

Lehmann, Herbert G.: *See*—
Johnson, Arthur A., and Lehmann.

Lehroff, Abraham: *See*—
Tell, Philip, and Lehroff.

Leonard, John T., Evanston, Ill. Reversible flow rotary pump. 2,528,764, Nov. 7.

Leonard, Rollen G., Indianapolis, assignor to Continental Car-Na-Var Corporation, Brazil, Ind. Vacuum cleaning machine. 2,528,763, Nov. 7.

Les Usines de Melle (Societe Anonyme), assignee: *See*—
Boinot, Firmin, and Gautier.
Vergnaud, Paul.

Lesher, Robert W., Duluth, Minn. Egg washer. 2,529,090, Nov. 7.

Lesigne, Henri L., Vanves, France. Automatic switching system applicable to telegraphy. 2,529,166, Nov. 7.

Lester, William M., Mountainside, N. J. Mold for a plastic ring having an annulus and a motif. 2,529,091, Nov. 7.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Electric motor-driven power unit. 2,528,836, Nov. 7.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Multiple drum winch. 2,529,299, Nov. 7.

Levasseur, Joseph W., Nicolet, Quebec, Canada. Foundation pile. 2,529,220, Nov. 7.

Lewis, Felix, and J. Shuler, Savannah, Ga. Leakproof oil filter. 2,529,167, Nov. 7.

Lewis, Theodore K., Wauneta, Nebr. Book end. 2,529,031, Nov. 7.

Lieber, Eugene, Chicago, Ill., assignor to Standard Oil Development Company. Lubricating oil compositions. 2,529,300, Nov. 7.

Liechti, Albert, Zurich, assignor to Micafil A.-G., Zurich-Altstetten, Switzerland. Condenser having a laminated dielectric thickened at its marginal portions. 2,528,596, Nov. 7.

Liechti, Albert, Zurich, assignor to Micafil A.-G., Zurich-Altstetten, Switzerland. Laminated electric condenser. 2,528,597, Nov. 7.

Liechti, Albert, Zurich, assignor to Micafil A.-G., Zurich-Altstetten, Switzerland. Laminated electric condenser. 2,528,598, Nov. 7.

Lien, Arthur P., Hammond, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Xylenes separation. 2,528,892, Nov. 7.

Lien, Arthur P., Hammond, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Ethylbenzene conversion. 2,528,893, Nov. 7.

Lieutard, Emile A., San Francisco, Calif. Traffic signal. 2,528,962, Nov. 7.

Lindberg, John E., Jr., Redwood City, Calif. Pocket sketching set. 2,528,765, Nov. 7.

Lindberg, William S.: *See*—
Hoven, Alfred C., Nordmark, and Lindberg.

Linde Air Products Company, The, assignee: *See*—
King, Barnwell R.
Meincke, Edward.
Preston, Albert L.
Young, Lloyd W.

Lindell, Sigurd I., Chicago, Ill., assignor to S & C Electric Company. Electric switch. 2,529,032, Nov. 7.

Lindgren, Hans O., Smedslatten, assignor to Aktiebolaget Separator, Stockholm, Sweden. Cover for separator frames. 2,529,221, Nov. 7.

Lindley, Frederick A., Jr.: *See*—
Woodworth, Frederick B., and Lindley.

Linhardt, Charles, Jr., Baltimore, Md. Marine torch. 2,528,837, Nov. 7.

Linville, Darrell B., Brentwood, Calif. Multirotor helicopter. 2,529,033, Nov. 7.

Linton, Henry, assignor to J. P. Smith Shoe Company, Chicago, Ill. Insole. 2,529,034, Nov. 7.

Lobo, Fernado G., Buenos Aires, Argentina. Apparatus for artificial respiration. 2,529,258, Nov. 7.

Lodes, Frederick G., Yonkers, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Liquefied gas propellant compositions. 2,529,092, Nov. 7.

Loether, Raymond H., Pittsburgh, Pa. Fountain brush. 2,528,599, Nov. 7.

Loewe, Peter L., and E. L. Boyce assignors, by mesne assignments, to Pioneer Gen-E-Motor Corporation, Chicago, Ill. Forward and reverse gearing for lawn mowers. 2,529,035, Nov. 7.

Loewinsohn, Joseph A., Atlanta, Ga. Reservoir-handled, measured-feed fountain shaving brush. 2,529,036, Nov. 7.

Logan, Joseph A., Hadley, and E. V. Lavallee, South Hadley Falls, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Latching means for hose nozzle valves. 2,528,696, Nov. 7.

Logan, Joseph A., Hadley, and E. V. Lavallee, South Hadley, assignors to Gilbert & Barker Manufacturing Company, West Sprinfield, Mass. Hose nozzle of the automatic shutoff type. 2,528,697, Nov. 7.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Selector switch in automatic telephone systems. 2,529,402, Nov. 7.

Lombard, Herman, U. S. Navy. Air inlet vent. 2,528,600, Nov. 7.

Long, Douglas P., Chislehurst, assignor to Siemens Brothers & Co. Limited, London, England. Marking arrangement for final selector switches. 2,529,471, Nov. 7.

Looney, Charles T. G., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Drive for nutator. 2,528,963, Nov. 7.

Loose Leaf Metals Co., assignee: *See*—
Dawson, James C., Jr.

Louis, Terrence G.: *See*—
Brownlee, Allen L., and Louis.

Louis, Terrence G., assignor to Wico Electric Company, West Springfield, Mass. Centrifugal governor, particularly for varying the timing of ignition. 2,528,698, Nov. 7.

Loveland, George M., assignee: *See*—
Jones, Taze W., and Loveland.

Lowenheim, Frederick A., Plainfield, N. J., assignor to Metal & Thermit Corporation, New York, N. Y. Coppertin alloy plating. 2,528,601, Nov. 7.

Luce, Richard W., Southport, Conn. Lock nut. 2,529,093, Nov. 7.

Luminous Processes, Inc., assignee: *See*—
Fordyce, Rufus G.

Lurtz, Carl, Brooklyn, N. Y. Antipick keylock mechanism. 2,528,964, Nov. 7.

Lykken, Henry G., Minneapolis, Minn. Apparatus for making endless V-belts. 2,529,301, Nov. 7.

Lynn, Anthony P., Elmhurst, and G. A. Lynn, River Grove, Ill. Dialing tool. 2,528,661, Nov. 7.

Lynn, Gary A.: *See*—
Lynn, Anthony P., and G. A.

Lyon, George A., Allenhurst, N. J. Method of and apparatus for forming plastic. 2,528,529, Nov. 7.

Lyon, George A., Allenhurst, N. J. Method of and apparatus for forming plastic. 2,528,858, Nov. 7.

Lyttle, Douglas A.: *See*—
Weisblat, David I., and Lyttle.

Maag-Zahnräder und-Maschinen Aktiengesellschaft, assignee: *See*—
Aeppli, Albert.

MacDougall, Franklin M.: *See*—
Dube, John E., MacDougall, and Bower.

Machleder, Irving, New York, assignor of one-fourth to P. Stiller, Mount Vernon, one-fourth to B. Altman, Larchmont, and one-fourth to J. C. Ledbetter, New York, N. Y. Paint container means and mixing preselected colored paints. 2,528,530, Nov. 7.

Machlet, Adolph W., Elizabeth, N. J. Composition for imparting rust-inhibiting finish to iron articles. 2,529,344, Nov. 7.

Machlet, Adolph W., Elizabeth, N. J. Durably finishing iron articles and composition therefor. 2,529,345, Nov. 7.

Mack, John L., Sr., Chicago, Ill. Tie rack. 2,529,403, Nov. 7.

Maco Corporation, The, assignee: *See*—
Fisher, Gerald A.

Magit, Harry, Los Angeles, Calif. Cleaning pad. 2,528,602, Nov. 7.

Maguire, John J.: *See*—
Nieland, William L., Maguire, George, and Kahler.

Maha, Otto J.: *See*—
Peterson, Victor W., and Maha.

Mahler, Fred H., assignee: *See*—
Gibson, Frederic H.

Makibbin, William C., New Bloomfield, Pa. Vending machine. 2,529,222, Nov. 7.

Malchair, Armand: *See*—
Bodinaux, Gaston, and Malchair.

Malewski, Adam, Philadelphia, Pa. Safety razor blade sharpener. 2,528,894, Nov. 7.

Manning, Maxwell & Moore, Inc., assignee: *See*—
Smith, Ralph E.

Manuel, Charles J., Durham, N. H., assignor to Moore Business Forms, Inc., Niagara Falls, N. Y. Casing structure of portable autographic registers. 2,529,302, Nov. 7.

Marcantonio, John A., Union, assignor to Eugene P. Reading, Inc., Roselle, N. J. Foldable boom. 2,529,454, Nov. 7.

Marcellus, Brooks, assignor to Barber-Colman Company, Rockford, Ill. Time controlled actuator. 2,528,766, Nov. 7.

Marcus & Co., Aktiebolag, assignee: *See*—
Eriksson, Erik V.

Marisic, Milton M., Northfield, Ill., assignor to Socony-Vacuum Oil Company, Incorporated. Drying inorganic oxide gels. 2,528,767, Nov. 7.

Marples, R. M., and Son Limited, assignee: *See*—
Marples, Stephen A.

Marples, Stephen A., assignor to R. M. Marples and Son Limited, Parkstone, England. Projectable and retractable writing implement. 2,529,037, Nov. 7.

Marrs, H. C., assignee: *See*—
Mitchell, Thomas W.

Marsh, Frank Farrell, Pa. Cushion-mat hassock. 2,528,768, Nov. 7.

Marshall, Donald E., Summit, N. J., assignor to Micro Processing Equipment Inc., Des Plaines, Ill. Continuous process for making a composite soap bar. 2,528,331, Nov. 7.

Marshall, Joseph K., Chesterton, and C. Nygren, Michigan City, Ind., assignors to Michiana Products Corporation. Conveyer chain. 2,529,168, Nov. 7.

Martin, James, High Denham, near Uxbridge, England. Body positioning means for aircraft ejection seats. 2,528,532, Nov. 7.

Martino, Peter V., Long Island City, N. Y. Display fixture unit. 2,528,838, Nov. 7.

Maryland Paper Products Company, Inc., assignee: *See*—
West, John B.

Mason, John H., Brooklyn, N. Y. Mechanical pencil. 2,528,839, Nov. 7.

Masonek, Harvey, assignee: *See*—
Samson, Joseph.

Massachusetts Institute of Technology, assignee: *See*—
Edwards, Evan A.

Masterson, Earl E., Palmyra, N. J., assignor to Radio Corporation of America. Invisible sound record editor. 2,528,699, Nov. 7.

Mathews, Keith L., assignor to The Pelton Water Wheel Company, San Francisco, Calif. Seal ring. 2,528,895, Nov. 7.

Mathieson Chemical Corporation, assignee: *See*—
Taylor, Maurice C.

Matthey-Doret, André, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Protective arrangement for electric lines. 2,528,896, Nov. 7.

Mayfield, Thomas H., Roby, Tex. Cotton chopper and beet topping device. 2,528,897, Nov. 7.

Mays, Arthur B., Adrian, Mich. Method of and apparatus for compacting material. 2,529,404, Nov. 7.

McAvinney, Francis J.: *See*—
Bradford, Leonard R., Dunnell, Jr., and McAvinney.

McCallum, Archie H.: *See*—
Pile, Benjamin D., and McCallum.

McCaulay, David A.: *See*—
Lien, Arthur P., and McCaulay.

McConnell, Andrew J., Delmar, N. Y., assignor to General Electric Company. Electric protective system. 2,529,149, Nov. 7.

McCorquodale, Wilmer E., Orange, Tex. Thermostatic safety control apparatus for gaseous fuel burners. 2,529,279, Nov. 7.

McCracken, John H., Corpus Christi, Tex., assignor to Socony-Vacuum Oil Company, Incorporated. Reaction product of haloalkylthiophenes and hydroxyaryl compounds. 2,528,769, Nov. 7.

McCray Refrigerator Company, assignee: *See*—
Grelling, David J.

McCulloch, Frederick L., Tampa, Fla. Juicing machine. 2,528,533, Nov. 7.

McDermott, John P., Roselle, N. J., assignor to Standard Oil Development Company. Stabilized hydrocarbon products. 2,529,303, Nov. 7.

McDermott, Richard W., Hamden, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Container. 2,528,603, Nov. 7.

McGregor, Floyd E.: *See*—
Kearney, Thomas J., and McGregor.

McGreevy, George F., assignor to Wico Electric Company, West Springfield, Mass. Fastening means for the stator plates of flywheel magnetos. 2,528,700, Nov. 7.

McHan, Brack B., Quincy, assignor to Calcium Carbonate Company, Chicago, Ill. Stabilized composition. 2,529,405, Nov. 7.

McHollan, James A., Valley Stream, N. Y. Shade support and extinguisher for candles. 2,528,604, Nov. 7.

McIlvaine, Douglas K., Des Plaines, Ill., assignor to Alco Valve Company, University City, Mo. Pilot indicator for solenoid valves. 2,528,898, Nov. 7.

McKinley, W. F., assignee: *See*—
Anderson, Guy R.

McLemore, Price C., Montgomery, Ala. Apparatus for flame cultivation of plants. 2,528,899, Nov. 7.

McQuay-Norris Manufacturing Company, assignee: *See*—
Persons, Lawrence M.

McShane, Charles L.: *See*—
Glass, Marvin I., and McShane.

Medlar, Lewis A., Oreland, and J. B. Godshalk, assignors, by mesne assignments, to Sterlingworth Company, Philadelphia, Pa. Maximum temperature cutoff system for battery chargers. 2,529,038, Nov. 7.

Meincke, Edward, Summit, N. J., assignor to The Linde Air Products Company. Automatic scarfing machine. 2,528,770, Nov. 7.

Meister, Leo T., Bradley Beach, N. J. Apparatus for testing centrifugally actuated elements. 2,528,534, Nov. 7.

Meller, Reginald B., Oakland, Calif., assignor to Bemis-Jason Company. Construction of containers. 2,528,900, Nov. 7.

Mennesson, Marcel, assignor to Societe Anonyme de Construction de Materiel Automobile (S. A. C. M. A.), Neuilly-sur-Seine, France. Pneumatic micrometry plug gauge. 2,529,170, Nov. 7.

Menser, Henry E., Crofton, assignor of thirty-three and one-third per cent to C. Huddleston, St. Charles, Ky. Metal-cutting snears. 2,529,171, Nov. 7.

Merker, Robert L., U. S. Navy. Fluid lubricating composition. 2,528,535, Nov. 7.

Merrimac Hat Corporation, assignee: *See*—
Hoffman, Manfred T., and O'Connor.

Metakloth Company, assignee: *See*—
Van Norden, Ottomar H.

Metal & Thermit Corporation, assignee: *See*—
Lowenheim, Frederick A.

Metalite, Inc., assignee: *See*—
Greene, Howard B.

Metropolitan-Vickers Electrical Company Limited, assignee: *See*—
Dannatt, Cecil, and Belsey.

Meyer, Alvin L., Fairfield, Mont. Ditch filler. 2,529,039, Nov. 7.

Meyer, Frank L., Peoria, Ill. Hot-air furnace. 2,529,406, Nov. 7.

Meyer, Joseph E., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Doctor mechanism for rotary intaglio printing presses. 2,528,965, Nov. 7.

Meyercord Co., The, assignee: *See*—
Thorp, Clark E., and Kinney.

Meyrowitz, Robert, Washington, D. C. Crucible holder. 2,528,536, Nov. 7.

Micafil A.-G., assignee: *See*—
Liechti, Albert.

Michiana Products Corporation, assignee: *See*—
Marshall, Joseph K., and Nygren.

Micro Processing Equipment Inc., assignee: *See*—
Marshall, Donald E.

Midouhas, Stephen P., Bristol, Pa. Toy soda fountain. 2,529,407, Nov. 7.

Mikeska, Louis A., Westfield, and E. B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company. Extreme pressure lubricants. 2,529,304, Nov. 7.

Milford Crane & Machine Co., assignee: *See*—
Rossner, Emery.

Miller, Charles: *See*—
Klein, Ben, and Miller.

Miller, John M., Summerdale, Ala. Tooth paste dispenser having a cutoff valve actuated by a tooth brush. 2,528,662, Nov. 7.

Miller Liter Company, assignee: *See*—
Miller, Price B.

Miller, Price B., assignor to Miller Liter Company, Kansas City, Mo. Cigarette lighter assembly. 2,529,094, Nov. 7.

Milligard, Hugh J.: *See*—
Clasen, Arthur C., Milligard, and Phelps.

Millis, Keith D., Rahway, A. P. Gagnebin, Red Bank, and N. B. Pilling, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Production of cast iron and alloy addition agent used in method. 2,529,346, Nov. 7.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Blackett, Patrick M. S., and Braddick.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Frick, George P.
Thorsheim, Joseph O.
Wannamaker, William H., Jr., and Mouzon.

Mitchell, August, assignor to Cresale Incorporated, Waterbury, Conn. Vest pocket flashlight. 2,528,701, Nov. 7.

Mitchell, Reginald F., Mount Vernon, N. Y. Motion-picture camera having coupled drive and masking means for taking different size exposures. 2,528,840, Nov. 7.

Mitchell, Thomas W., assignor of forty-nine per cent to R. C. Marrs, St. Louis, Mo. String operated magneto-electric musical instrument. 2,528,663, Nov. 7.

Moe, Robert E., Syracuse, N. Y., assignor to General Electric Company. Pulse discriminating circuits. 2,529,172, Nov. 7.

Moeller, George J.: *See*—
Oborholtz, Anthony, and Moeller.

Moen, Alfred M., Seattle, Wash. Shower head. 2,529,223, Nov. 7.

Moen, Ragnar E. L.: *See*—
Helland, John G., and Moen.

Mohler, Stanley R., La Marque, and S. E. Ross, Jr., Amarillo, Tex. Exercising device. 2,529,347, Nov. 7.

Mohr, Joseph J., Encinitas, Calif. Hammer retainer means for machine tools. 2,528,702, Nov. 7.

Moinard, Marie—nee Colomb: *See*—
Lants, Robert, and Moinard.

Monnik, Harmon J., Narberth, and H. H. Eickhoff, Philadelphia, Pa., assignors to Houdry Process Corporation, Wilmington, Del. System electrically responsive to change in level of material in a receptacle. 2,528,537, Nov. 7.

Monsanto Chemical Company, assignee: *See*—
Conover, Courtney.
Ham, George E.
Mowry, David T.

Montani, Angelo, Woodhaven, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. High-frequency generator. 2,529,408, Nov. 7.

Montclair Research Corporation, assignee: *See*—
Rust, John B.

Moore Business Forms, Inc., assignee: *See*—
Manuel, Charles J.

Moore, George A., New York, N. Y., assignor to Reynolds Metals Company, Richmond, Va. Venetian blind. 2,529,305, Nov. 7.

Moore, Harold S., and C. A. Berlepsch, North Haven, assignors to Rockbestos Products Corporation, New Haven, Conn. Heating unit. 2,528,966, Nov. 7.

Moore, John H., Havertown, assignor to Leeds and Northrup Company, Philadelphia, Pa. Circuit standardizing actuating mechanism. 2,528,967, Nov. 7.

Moravian Electrical Engineering Works, National Corporation, assignee: *See*—
Klima, Vilém.

Morgan, Jack F.: *See*—
Bestehorn, Heinrich H., and Morgan.
Grimmel, Harry W., and Morgan.

Morrill, Alfred R., deceased, by R. W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,529,095, Nov. 7.

Morrill, Ruth W., administratrix: *See*—
Morrill, Alfred R.

Morris, Leonard, New York, N. Y. Hydraulic brake safety device. 2,529,306, Nov. 7.

Morrison, David, and J. J. Everard, Manitowoc, assignors to Paragon Electric Company, Two Rivers, Wis. Time-controlled electric switch. 2,528,841, Nov. 7.

Morrison, Hackley, Houston, Tex., assignor, by mesne assignments, to H. Morrison, Jr. Ventilating fan for windows. 2,529,040, Nov. 7.

Morrison, Hackley, Jr., assignee: *See*—
Morrison, Hackley.

Morse, John F., Hudson, Ohio. Combined manual and follow-up pressure fluid power unit. 2,528,901, Nov. 7.

Mosier, Kenneth C., assignee: *See*—
Norgren, Carl A., and Mosier.

Motor Products Corporation, assignee: *See*—
Whitmore, Harland W.

Motorola, Inc., assignee: *See*—
Jackson, Wilbur C.
Jackson, Wilbur C., and Clemens.

Motorspeed Corporation, The, assignee: *See*—
Chin, Pao H., and Knauth.

Mott, Raymond A., Mead, Wash. Train order delivery device. 2,529,096, Nov. 7.

Mouzon, James C.: *See*—
Wannamaker, William H., Jr., and Mouzon.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing uncaturated amides. 2,529,455, Nov. 7.

Moy, Paul W., Euclid, and W. P. Karash, assignors to The Harshaw Chemical Company, Cleveland, Ohio. Bright nickel plating. 2,528,902, Nov. 7.

Moyer, Wilmer L., and J. C. Deck, deceased, Findlay, Ohio; L. S. Hatfield, administrator of said J. C. Deck, assignor to said Moyer. Handrail attachment for beds. 2,529,173, Nov. 7.

Muffly, Gary, Penn Township, Allegheny County, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Constant amplitude oscillator. 2,528,703, Nov. 7.

Müller, Josef, Fribourg, Switzerland. Matrix holder for dental attendance. 2,529,174, Nov. 7.

Müller Paul, Sierre, assignor to Societe Anonyme pour l'Industrie de l'Aluminium, Chippis, Switzerland. Artificially producing carbonaceous composition pieces. 2,529,041, Nov. 7.

Mullin, John T., assignor to W. A. Palmer Films, Inc., San Francisco, Calif. Sound recording and reproducing system with recorded control signal. 2,529,097, Nov. 7.

Munising Paper Company, The, assignee: *See*—
Trillich, Bertram I.

Mustee, Bernard E., assignor to E. L. Mustee, Cleveland, Ohio. Sectional casing for fluid heaters. 2,528,771, Nov. 7.

Mustee, Bernard E., assignor to E. L. Mustee, Cleveland, Ohio. Fuel burner device. 2,529,307, Nov. 7.

Mustee, Bernard E., Cleveland, Ohio, assignor to E. L. Mustee and Sons, Inc. Making sacrifice rods for water tanks. 2,529,348, Nov. 7.

Mustee, E. L., and Sons, Inc., assignee: *See*—
Mustee, Bernard E.

Mustee, Emil L., assignee: *See*—
Mustee, Bernard E.

Nanson, Thomas G., Los Angeles, Calif. Apparatus for fraying strip fabrics. 2,529,042, Nov. 7.

Nathan, Ellis, assignor to Pennsylvania Pump & Compressor Company, Easton, Pa. Centrifugal unloader for compressors. 2,529,349, Nov. 7.

National Cylinder Gas Company, assignee: *See*—
Heeren, Martin H.

National Folding Box Company, Incorporated, assignee: *See*—
McDermott, Richard W.

National Lead Company, assignee: *See*—
Turner, Joseph L., and Alessandroni.

National Marking Machine Company, The, assignee: *See*—
Carothers, Thomas A., Des Jardins, and Utz.

National Slug Rejectors, Inc., assignee: *See*—
Foushee, Robert M.

National Steel Corporation, assignee: *See*—
Cover, Martin L.

National Supply Company, The, assignee: *See*—
Babcock, Lloyd L., and Spalding.

National Tube Company, assignee: *See*—
Gross, Harry E.
Willis, Ralph E.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Broadbent, John H.
Carpenter, Theodore H.
Fink, Jean, and Hebbeln.
Hanson, Russell O., and Saars.
Looney, Charles T. G.
Wallace, Roger W., and Colburn.
Winter, Courtney P.

Neely, Richard J.: *See*—
Rocchini, Albert G., and Neely.

Nelson, Ivar, and L. W. Wallace, Los Angeles, Calif. Automaton. 2,528,968, Nov. 7.

Nelson, William L., Ferguson, Mo., assignor to United States Gypsum Company, Chicago, Ill. Apparatus for texturing asbestos-cement sheets. 2,529,175, Nov. 7.

Nemecsek, Louis J.: *See*—
Kiekhoefel, Fred G., and Nemecsek.

Neracher, Carl A., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Transmission control. 2,528,772, Nov. 7.

Neuda, Paul M., assignor to The Robinson Foundation, Inc., New York, N. Y. Testing blood. 2,528,704, Nov. 7.

Newell, James K., Jr., Swampscott, Mass., assignor to General Electric Company. Binding wire clip. 2,529,176, Nov. 7.

Newey, Herbert A.: *See*—
Wiles, Quentin T., and Newey.

Newman, Herbert A., assignor to The George W. Borg Corporation, Delavan, Wis. X-ray apparatus. 2,529,043, Nov. 7.

Newman, Max. M., New York, N. Y. Hairpin. 2,529,224, Nov. 7.

Newstedt, Harry N., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Selector switch for automatic telephone systems. 2,529,409, Nov. 7.

Newstedt, Harry N., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. System for controlling coin receptacles of pay station telephones. 2,529,410, Nov. 7.

New Wrinkle, Inc., assignee: *See*—
Williams, Gordon M.

Niagara Screens & Machines Limited, assignee: *See*—
Stroud, Robert.

Nichols, Christabel S., Fairfield, Conn. Retractable windshield visor. 2,528,903, Nov. 7.

Nichols, Edward C., assignor to Draper Corporation, Hopedale, Mass. Loom lay and beam. 2,529,456, Nov. 7.

Niece, Olin, Seneca, N. Mex. Cattle chute. 2,528,664, Nov. 7.

Nieland, William L., Downers Grove, Ill., J. J. Maguire, Elkins Park, C. B. George, Philadelphia, and H. L. Kahler, Feasterville, assignors to W. H. and L. D. Betz, Philadelphia, Pa. Corrosion and tuberculation inhibition in water systems. 2,529,177, Nov. 7.

Nieland, William L., Downers Grove, Ill., J. J. Maguire, Elkins Park, C. B. George, Philadelphia, and H. L. Kahler, Feasterville, assignors to W. H. and L. D. Betz, Philadelphia, Pa. Obtaining corrosion and tuberculation inhibition in water systems. 2,529,178, Nov. 7.

Nilsson, Johan G., Appelviken, assignor to Arenco Aktiebolag, Stockholm, Sweden. Apparatus for delivering measured quantities of material. 2,529,457, Nov. 7.

Noll, George A., Lake Alfred, Fla. Pipe coupling. 2,529,098, Nov. 7.

Nolt, Edwin B., Ephrata, Pa., assignor, by mesne assignments, to The Sperry Corporation, New York, N. Y. Tying mechanism for automatic balers. 2,528,538, Nov. 7.

Nørballe, Svend G., Copenhagen, Denmark. Closing device for doors. 2,528,904, Nov. 7.

Nordmark, Walter E.: *See*—
Hoven, Alfred C., Nordmark, and Lindberg.

Norgren, Carl A., and K. C. Mosier, Denver, Colo., said Mosier assignor to said Norgren. Air filter. 2,528,539, Nov. 7.

Norris, Henry D., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,528,773, Nov. 7.

Norrish, John W., Lockland, Ohio, assignor to Avco Manufacturing Corporation, Detroit, Mich. Refrigerator door assembly. 2,528,705, Nov. 7.

Northrup, Weaver L., Elm Creek, assignor of one-third to L. C. Hill, Hastings, Nebr. Gasket for repairing weld and pit leaks on pipes. 2,529,411, Nov. 7.

Norton Company, assignee: *See*—
Finlay, Gordon R.
Sweetser, Chauncey E.

Nygren, Carl: *See*—
Marshall, Joseph K., and Nygren.

Oberholtz, Anthony, Los Angeles, and G. J. Moeller, Altadena, Calif.; said Moeller assignor to said Oberholtz. Circulating electric heater. 2,528,774, Nov. 7.

Oberholtzer, Grant E., Fitchburg, Mass. Casting float for rods and reels. 2,529,179, Nov. 7.

Oberholtzer, John H., Harrisburg, Pa. Steam boiler. 2,529,044, Nov. 7.

Oblinger, Leroy I.: *See*—
Smith, David C., and Oblinger.

O'Connor, John T.: *See*—
Hoffman, Manfred T., and O'Connor.

Oehler, Alvin W., assignor to Deere & Company, Moline, Ill. Harvesting mechanism. 2,529,150, Nov. 7.

Ogden, Thomas V., Santa Ana, Calif. Hole locator. 2,528,775, Nov. 7.

Ohio Crankshaft Company, The, assignee: *See*—
Wadhams, James B.

Olbrys, Leo, Hamtramck, Mich. Balance weight. 2,529,099, Nov. 7.

Oldofredi, Edgar C. V., New York, N. Y. Ornamenting sheet metal. 2,528,540, Nov. 7.

O'Leary, Charles M., assignee: *See*—
Blair, John A.

Oliver Machinery Company, assignee: *See*—
Caldwell, Harry F.

Ollivier, Pierre J. M. C., Savoie, and R. A. P. G. Perieres, assignors to Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camargue, Paris, France. Construction of the lower portion of igneous electrolytic cells. 2,528,905, Nov. 7.

Oppenheimer, Franz, assignor to Michael Reese Research Foundation, Chicago, Ill. Lamp. 2,528,969, Nov. 7.

Ordas, Eugene P.: *See*—
Herzfeld, Simon H., and Ordas.

Orr, Andrew W., Jr., Detroit, Mich., assignor to G. M. and E. Holley. Aircraft carburetor. 2,529,100, Nov. 7.

Orr, Andrew W., Jr., Detroit, Mich., assignor to G. M. and E. Holley. Pressure carburetor. 2,529,101, Nov. 7.

Orr, John H., assignor to Carbodies Limited, Coventry, England. Collapsible top structure for motor vehicles. 2,529,458, Nov. 7.

Ortgies, Raymond C., Chicago, assignor to Whiting Corporation, Harvey, Ill. Apparatus for cleaning stack gas. 2,529,045, Nov. 7.

Osborn, George E., Spokane, Wash. Extensible crutch. 2,528,706, Nov. 7.

Pacific Car and Foundry Company, assignee: *See*—
Schou, Carl E.

Padgett, Grady, Beaver, Pa. Discharge means for coke ovens. 2,529,046, Nov. 7.

Page, Frank R., assignor to Scott & Williams, Incorporated, Laconia, N. H. Sinker cam mechanism for circular knitting machines and operating a circular knitting machine. 2,529,181, Nov. 7.

Paintr, E. Z., Corporation, assignee: *See*—
Touchett, Lawrence P.

Pajes, Wolf S., New York, N. Y., and R. E. Downing, Cambridge, Mass., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Electron discharge device. 2,528,541, Nov. 7.

Palmatier, Everett P., Solvay, N. Y., assignor to Curtiss-Wright Corporation. Deicing system for aircraft propellers. 2,529,102, Nov. 7.

Palmatier, Everett P., Solvay, N. Y., assignor to Curtiss-Wright Corporation. Spinner deicing system. 2,529,103, Nov. 7.

Palmer, W. A., Films, Inc., assignee: *See*—
Mullin, John T.

Panepinto Mfg. Corp., assignee: *See*—
Catalano, Frank P. J. P., and P. P.

Panish, Erwin J., Bridgeport, Conn. Combined remote and proximal control device. 2,529,182, Nov. 7.

Papa, Domenick, Brooklyn, N. Y., and E. Schwenk, Montclair, assignors to Schering Corporation, Bloomfield, N. J. Halogenhydroxyarylaliphatic acids. 2,528,542, Nov. 7.

Pappas, Philip M., Houston, Tex. Deep fat frying apparatus. 2,528,776, Nov. 7.

Paragon Electric Company, assignee: *See*—
Morrison, David, and Everard.

Parish, Frank P., assignor to Sanitary Products Corporation, Taneytown, Md. Unequal length fold tampon. 2,529,183, Nov. 7.

Parker Appliance Company, The, assignee: *See*—
Davies, Robert H.
Parker, Arthur L.

Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,529,412, Nov. 7.

Partridge, William A., and H. J. Alty, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Motor fuels. 2,528,605, Nov. 7.

Patent and Licensing Corporation, The, assignee: *See*—
Root, Arthur M., Jr.

Paul, Robert, Buffalo, N. Y. Toy repeating elastic band gun. 2,529,047, Nov. 7.

Paulette, Robert G., Buffalo, N. Y., and W. H. Green, Geneva Township, Kane County, assignors to Infilco Incorporated, Chicago, Ill. Clarifier. 2,528,907, Nov. 7.

Pearson, Charles M., assignor to The Bagley & Sewall Company, Watertown, N. Y. Web threader for winder machines. 2,529,184, Nov. 7.

Pearson, Harry A.: *See*—
Crownover, Joseph W., and Pearson.

Pease, Benjamin F., Jr., Grafton, Mass. One-piece tongueless buckle. 2,529,048, Nov. 7.

Pedersen, William W., Cleveland Heights, Ohio, assignor to Dow Corning Corporation, Midland, Mich. Molding powder containing organosiloxane resin and ethanolamine. 2,528,606, Nov. 7.

Pelton Water Wheel Company, The, assignee: *See*—
Mathews, Keith L.

Penney, Gaylor W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dust-precipitating means with separable plate-assembly units. 2,528,842, Nov. 7.

Pennsylvania Pump & Compressor Company, assignee: *See*—
Nathan Ellis.

Pennsylvania Railroad Company, The, assignee: *See*—
Steins, Carleton K.

People in the territory of the United States, dedicated to the free use of the: *See*—
Brannon, Loyd W.

Perfection Stove Company, assignee: *See*—
Chadwick, Lee S.

Perieres, René A. P. G.: *See*—
Ollivier, Pierre J. M. C., and Perieres.

Persons, Lawrence M., Chesterfield, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Electromagnetic switching means. 2,528,777, Nov. 7.

Peters, Edwin F.: *See*—
Evering, Bernard L., and Peters.

Petersen, Benton C., Salina, Kans. Artjopat designing board. 2,529,413, Nov. 7.

Peterson, Glen, and M. Ercolino, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of war. Radio beacon system. 2,528,543, Nov. 7.

Peterson, John W., Canton, S. Dak. Transportation truck. 2,528,908, Nov. 7.

Peterson, Victor W., and O. J. Maha, Chicago, Ill., assignors to Hannifin Corporation. Gasket seal. 2,528,665, Nov. 7.

Petras, Nandor, Jackson Heights, N. Y. Rotary valve internal-combustion engine. 2,528,970, Nov. 7.

Petty, Genevieve, Denver, Colo. Inking device for laundry marking machines. 2,529,225, Nov. 7.

Petty, William S., Denver, Colo. Type wheel locking means in laundry marking machines. 2,529,226, Nov. 7.

Pfeffer, Edward C., Jr., Troy, assignor to Continental Can Company, Inc., New York, N. Y. Preparing stable vinyl coatings on metal surfaces. 2,529,414, Nov. 7.

Phelan, Hubert S., Berkley, assignor to Chrysler Corporation, Highland Park, Mich. Control apparatus. 2,529,415, Nov. 7.

Phelps, Theodore A.: *See*—
Clasen, Arthur C., Milligard, and Phelps.

Philco Corporation, assignee: *See*—
Curtiss, George E., Jr.
Frear, William.
Radman, Frederick E.
Spielman, Sterling C.
Tompkins, Howard E.

Phillips, Raymond, Cleveland, Ohio. Fused electric plug. 2,528,971, Nov. 7.

Phillips Petroleum Company, assignee: *See*—
Friedman, Alvin H.
Latchum, John W., Jr.
Schulze, Walter A., and Crouch.
Weber, Louis J.

Piazze, Thomas E., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Sealed tobacco package. 2,528,778, Nov. 7.

Pickands Mather & Co., assignee: *See*—
Royster, Percy H.

Pierce Company, assignee: *See*—
Volz, Philip E.

Pijoan, Michel, Boulder, Colo. Insect repellent preparations. 2,528,544, Nov. 7.

Pile, Benjamin D., Alexandria, Va., and A. H. McCallum, Peoria, Ill. Apparatus and process for producing capsules. 2,529,416, Nov. 7.

Pillemer, Louis, assignor to Western Reserve University, Cleveland, Ohio. Prophylactic toxoid compound and making same. 2,528,972, Nov. 7.

Pilling, Norman B.: *See*—
Millis, Keith D., Gagnebin, and Pilling.

Pinney, Ernest F., Glen Cove, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Cutoff machine. 2,528,779, Nov. 7.

Pioneer Gen-E-Motor Corporation, assignee: *See*—
Goldberg, Harry, and Burrows.
Loewe, Peter L., and Boyce.

Pitre, Ernest F., New Iberia, La. Disk and vaned rotary hoe. 2,529,417, Nov. 7.

Plumb, Edwin W., Morris, Conn. Work holder. 2,528,909, Nov. 7.

Poe, William A., assignor to Browne-Morse Company, Muskegon, Mich. Snap-on drawer lock. 2,528,910, Nov. 7.

Polachek, Hugo D., assignee: *See*—
Shontz, Ellsworth E.

Pollock, Herbert C.: *See*—
Langmuir, Robert V., Pollock, and Westendorp.

Polytechnic Institute of Brooklyn, assignee: *See*—
Weber, Ernst, and Griemsmann.

Pond, William B., Arcadia, assignor to Transresearch of California, Pasadena, Calif. X-ray radiation time recorder and controller. 2,528,545, Nov. 7.

Poor, Henry I., La Fayette, Ind., assignor of one-fourth to J. P. Sampson, Santa Monica, Calif. Apparatus for the treatment of intermittent claudication. 2,528,843, Nov. 7.

Porter, Garrett H.: *See*—
Evans, Edmund A., and Porter.

Porter, Homer, National City, Calif. Brake shoe anchoring means. 2,528,707, Nov. 7.

Porter, James, New Cumberland, W. Va. Glazing knife. 2,528,911, Nov. 7.

Posz, Robert M., Glendale, Calif. Folding bed rest. 2,529,350, Nov. 7.

Potts, Oliver F., Kenmore, assignor to J. H. Williams & Company, Buffalo, N. Y. Spatter shield for C-clamps. 2,528,666, Nov. 7.

Pourciau, Louis L., and R. L. Garman, Pleasantville, N. Y., assignors to General Precision Laboratory, Incorporated. Low-frequency power amplifier. 2,529,459, Nov. 7.

Power Jets (Research & Development) Limited, assignee: *See*—
Kestell, Thomas A.

Powers, Alice L. B., Larchmont, N. Y. Unitary thin flat holder for garment straps. 2,529,308, Nov. 7.

Powers, Paul O., assignor to Armstrong Cork Company, Lancaster, Pa. Tile and binder for the same. 2,529,260, Nov. 7.

Powers, Paul O., Columbus, Ohio, assignor to Armstrong Cork Company, Lancaster, Pa. Tile and binder for the same. 2,529,261, Nov. 7.

Pratt & Gray Company, Inc., assignee: *See*—
Colomy, Roy H., and Boenisch.

Pratt, Read and Company, Inc., assignee: *See*—
Stein, Charles F.

Preising, William J., New Albany, Ind., and R. H. Bynum, assignors to B. F. Avery & Sons Company, Louisville, Ky. Adjustably mounted seat. 2,528,607, Nov. 7.

Premier Crystal Laboratories, Incorporated, assignee: *See*—
Bach, Henry M.

Prestole Corporation, assignee: *See*—
Kost, Harold W.

Preston, Albert L., Kenmore, N. Y., assignor to The Linde Air Products Company. Apparatus for dispensing liquefied gases. 2,528,780, Nov. 7.

Prill, Erhard J., Cresskill, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Nitriles from isobutylene-nitrosyl chloride adduct. 2,528,708, Nov. 7.

Process Development Company, assignee: *See*—
Ritsch, Howard P.

Proctor, Baxter G., Jr.: *See*—
Rappaport, Sigmund, and Proctor.

Proctor, Homer G., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Collapsible take-up spool. 2,529,185, Nov. 7.

Productive Inventions, Inc., assignee: *See*—
Anderson, John W.
Smulski, Theodore J.

Purcell, Howard M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Fluid operable apparatus. 2,529,309, Nov. 7.

Putnam, Robert B., assignor to Fenimore Fabrics, Incorporated, Cobleskill, N. Y. Cone holder. 2,529,351, Nov. 7.

Pye, Harold C., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone substation apparatus for local and common battery service. 2,529,418, Nov. 7.

Quartullo, Orpheus F., South Euclid, Ohio. Horseshoe. 2,529,419, Nov. 7.

Raabe, Carl A., assignor to American Phenolic Corporation, Chicago, Ill. Loop antenna. 2,528,667, Nov. 7.

Rackle, Joseph W.: *See*—
Farkas, Eugene J., and Rackle.

Radio Corporation of America, assignee: *See*—
Blaney, Dorothy L.
De Vore, Henry B.
Greenough, Maurice L.
Law, Harold B.
Masterson, Earl E.
Sachtleben, Lawrence T.

Radman, Frederick E., Roslyn, assignor to Philco Corporation, Philadelphia, Pa. Adjustable support for cathode-ray tubes. 2,528,973, Nov. 7.

Ramquist, Amos H., Vashon, Wash. Roll holder. 2,529,420, Nov. 7.

Ranger, Richard H., U. S. Army, Newark, N. J. Directional sound detection system. 2,528,546, Nov. 7.

Rappaport, Sigmund, and B. G. Proctor, Jr., assignors to Wright Machinery Company, Durham, N. C. Spotter mechanism. 2,528,912, Nov. 7.

Rast, Frederick Q., Chicago, Ill., assignor to Commercial Controls Corporation. Tens-transfer device. 2,528,781, Nov. 7.

Ratliff, Donald E., Bend, Oreg. Sprinkler. 2,529,262, Nov. 7.

Rauland Corporation, The, assignee: *See*—
Buttino, Albert L.

Raymond Enginering Laboratory, Incorporated, assignee: *See*—
Raymond, Horace H. and S. O.

Raymond, Horace H. and S. O., Berlin, assignor to Raymond Engineering Laboratory, Incorporated, Middletown, Conn. Eraser. 2,528,709, Nov. 7.

Raymond, Samuel O.: *See*—
Raymond, Horace H. and S. O.

Raytheon Manufacturing Company, assignee: *See*—
Stolberg, Sven A.
Stutsman, Paul W.

Reading, Eugene P., Inc., assignee. *See*—
Marcantonio, John A.

Redenbaugh, Gerald E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lock. 2,529,421, Nov. 7.

Red Star Company, The, assignee: *See*—
Johnson, Arthur A., and Lehmann.

Reece Corporation, The assignee: *See*—
Bradford, Leonard R., Dunnell, and McAvinney.

Reed Roller Bit Company, assignee: *See*—
Stokes, John C.

Reese, Emmet P., Shoup, Idaho. Unloading, curing, storing, and reloading plant. 2,529,263, Nov. 7.

Reese, Michael, Research Foundation, assignee: *See*—
Oppenheimer, Franz.

Reeves, B. K., assignee: *See*—
Kerby, Harmon C.

Regelmann, Elizabeth. *See*—
Regelmann, William and E.

Regelmann, William and E., Cranston, R. I. Cigarette lighter. 2,529,104, Nov. 7.

Reichenbach, Joseph V.: *See*—
Brown, Hugh S., Armstrong, and Reichenbach.

Reiff, Orland M., and H. J. Andress, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Lubricant. 2,528,782, Nov. 7.

Reilly, Frank W., Auburndale, Mass. Power disconnect switch. 2,528,548, Nov. 7.

Reilly, Gerard J., Rumson, and W. E. Harbaugh, Fair Haven, N. J. Hydrogen thyratron. 2,528,547, Nov. 7.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz.

Reinhart, Howard A., San Francisco, Calif., and A. M. Selvey, Pittsburgh, Pa., said Reinhart assignor, by mesne assignments, to Tray-Hart, Inc., Jersey City, N. J. Apparatus for transporting cylindrical containers and the like. 2,528,783, Nov. 7.

Remington Arms Company, Inc., assignee: *See*—
Catlin, Robert T., and Eckstein.

Republic Flow Meters Company, assignee: *See*—
Smoot, Charles H.

Reynolds Metals Company, assignee: *See*—
Hammond, Gordon, and Jacke.
Moore, George A.

Rice, Curtis D.: *See*—
Hughes, Harley R., and Rice.

Rich, Barrett G., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Vehicle drawbar. 2,528,782, Nov. 7.

Richards, John C., Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of acrylonitrile to white polymers in dimethyl formamide. 2,528,710, Nov. 7.

Richards, Joseph: *See*—
Graham, David L., and Richards.

Richardson, Avery G., Boonton, N. J., and F. O. Chesus, Bayport, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Direction finding system. 2,528,549, Nov. 7.

Richardson, Roger W., and C. N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Acid-treating a contaminated water-immiscible bead-forming oil. 2,529,310, Nov. 7.

Richmond, Henry H., Guelph, Ontario, Canada, assignor to United States Rubber Company, New York, N. Y. Preparation of cinnamaldehyde. 2,529,186, Nov. 7.

Richter, Frederick P., and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil compositions containing alkyl aminobenzothiophenes. 2,528,785, Nov. 7.

Rickard, Elmer W. and H. E., Toronto, Ontario, Canada. Outboard motor mount and steering mechanism. 2,528,608, Nov. 7.

Rickard, Horace E.: *See*—
Rickard, Elmer W. and H. E.

Ridings, Garvis H., Summit, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Combined facsimile and code signaling system. 2,529,264, Nov. 7.

Rines, Robert H., Brookline, Mass. Sound ranging system. 2,528,725, Nov. 7.

Rines, Robert H., Brookline, Mass. Electric system. 2,528,726, Nov. 7.

Rines, Robert H., Brookline, Mass. Sonic picture system. 2,528,727, Nov. 7.

Rines, Robert H., Brookline, Mass. Sound-receiving method and system. 2,528,728, Nov. 7.

Rines, Robert H., Brookline, Mass. Object detecting system producing a visible likeness of the object. 2,528,729, Nov. 7.

Rines, Robert H., Brookline, Mass. Sonic picture system. 2,528,730, Nov. 7.

Ripatte, Carl H., Oxnard, Calif. Cavity insulator. 2,529,187, Nov. 7.

Ripley, Fred C., assignee: *See*—
Smyser, Elmer D.

Ritsch, Howard P., Chicago, Ill., assignor to Process Development Company. Method and apparatus for centrifugal separation. 2,528,974, Nov. 7.

Robb, John F., Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis. Self-contained power scraper. 2,528,550, Nov. 7.

Roberts, Lee C., Kansas City, Mo. Insect screen for motor car windows. 2,528,786, Nov. 7.

Robertshaw-Fulton Controls Company, assignee: *See*— Steele, Samuel W.

Robertson, Roy B., Fort Worth, Tex. Kitchen ventilator. 2,528,844, Nov. 7.

Robinson, Allan, Boston, Mass. Portable crucifix and case. 2,528,913, Nov. 7.

Robinson Foundation, Inc., The, assignee: *See*— Neuda, Paul M.

Rocchini, Albert G., Springdale, and R. J. Neely, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating metal surfaces during cold-working. 2,529,188, Nov. 7.

Rocchini, Albert G., Springdale, and R. J. Neely, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating metal surfaces during cold working. 2,529,189, Nov. 7.

Rocchini, Albert G., Springdale, and R. J. Neely, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Lubricating metal surfaces during cold working. 2,529,190, Nov. 7.

Rocchini, Albert G., Springdale, and R. J. Neely, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Cold-working lubricant and lubricating metal surfaces therewith. 2,529,191, Nov. 7.

Roche, Clifton R., Los Angeles, Calif. Engine starter. 2,528,711, Nov. 7.

Rockbestos Products Corporation, assignee: *See*— Moore, Harold S., and Berlepsch.

Rodman Trading Corp., assignee: *See*— Arbetman, Arthur.

Roest, Arie and J., Amsterdam, Netherlands. Slicing machine having cutter disk with planetary movement. 2,528,914, Nov. 7.

Roest, Jacobus: *See*— Roest, Arie and J.

Rogers, Carl, Port Sandfield, Ontario, Canada. Sanding device. 2,529,105, Nov. 7.

Roland, Charles T., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Protection of metals from corrosion. 2,528,787, Nov. 7.

Rolls-Royce Limited, assignee: *See*— Bell, Frank R., Judson, and Haworth.

Root, Arthur M., Jr., Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Apparatus for melting rubberized bituminous compositions. 2,528,975, Nov. 7.

Rose, Morris, Chicago, and J. J. Zak, Lombard, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Device for indexing contact springs in contact-welding apparatus. 2,529,265, Nov. 7.

Rosenblum, George M., Merrick, N. Y. Apparatus for wire coding. 2,529,227, Nov. 7.

Ross, Allen R., Renton, Wash. Shipping box and crate. 2,528,551, Nov. 7.

Ross, Dorothy B., Detroit, Mich. Hair curler. 2,529,311, Nov. 7.

Ross, Saul B., Oceanside, assignor to Eastern Air Devices, Inc., Brooklyn, N. Y. Magnetizing permanent magnet rotors. 2,529,049, Nov. 7.

Ross, Silas E., Jr.: *See*— Mohler, Stanley R., and Ross.

Rossner, Emery, Brooklyn, N. Y., assignor to Milford Crane & Machine Co., Milford, Conn. Motor powered vehicle cab. 2,529,192, Nov. 7.

Rouse, Edward H., St. Louis Park, Minn. Propeller. 2,528,609, Nov. 7.

Rowan, John V., University City, assignor to Lee-Rowan Company, St. Louis, Mo. Skirt hanger. 2,528,788, Nov. 7.

Royal Metal Manufacturing Company, The, assignee: *See*— Engstrom, Carl J.

Royal Typewriter Company, Inc., assignee: *See*— Garbell, Max.

Royster, Percy H., Chevy Chase, Md., assignor to Pickands Mather & Co., Cleveland, Ohio. Magnetically roasting hematic ore and ore materials. 2,528,552, Nov. 7.

Royster, Percy H., Chevy Chase, Md., assignor to Pickands Mather & Co., Cleveland, Ohio. Magnetic roasting. 2,528,553, Nov. 7.

Rueter, Earle F., Milwaukee, assignor to Unit Crane & Shovel Corp., West Allis, Wis. Safety boom stop. 2,529,193, Nov. 7.

Rupp, Walter H., Mountainside, N. J., assignor to Standard Oil Development Company. Liquefaction of methane. 2,529,312, Nov. 7.

Rust, John B., West Orange, N. J., assignor of one-half to Montclair Research Corporation and one-half to Ellis-Foster Company. Water-repellent textiles and making same. 2,528,554, Nov. 7.

Rustici, Joseph E., Stamford, Conn. Hollow drum grater with feed screw reinforcing member. 2,529,473, Nov. 7.

S & C Electric Company, assignee: *See*— Lindell, Sigurd I.

Saars, William F.: *See*— Hanson, Russell O., and Saars.

Sachanen, Alexander N., Woodbury, and P. D. Caesar, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Production of benzophenone. 2,528,789, Nov. 7.

Sachtleben, Lawrence T., Haddonfield, N. J., assignor to Radio Corporation of America. Lens mounting. 2,528,712, Nov. 7.

Saffady, Thomas F., Detroit, assignor of one-half to Vogue Recordings, Incorporated, Warren Township, and one-half to W. T. Sevald, Royal Oak, Mich. Sound record disk. 2,528,610, Nov. 7.

Saffady, Thomas F., Detroit, assignor of one-half to Vogue Recordings, Incorporated, Warren Township, and one-half to W. T. Sevald, Royal Oak, Mich. Making illustrated phonograph records. 2,528,611, Nov. 7.

Sale, William H., Sandston, Va., assignor of one-half to Edmund P. Kelly, Chicago, Ill. Brake beam suspension. 2,529,352, Nov. 7.

Sale, William H., Richmond, Va. Brake beam support. 2,529,353, Nov. 7.

Sampson, J. Philip, assignee: *See*— Poor, Henry I.

Sampson, Ole, Osceola, Mo. Swath lifter for windrowed grain. 2,529,422, Nov. 7.

Samson, Joseph, assignor to himself and H. Masonek, San Francisco, Calif., jointly. Floor lamp guide light. 2,528,555, Nov 7.

Sanders, Jack R., New York, N. Y. Optical sound reproducing system. 2,529,050, Nov. 7.

Sanders, Lionel J. R., Galt, Ontario, Canada. Machine for putting bands on balls of knitting wool. 2,529,313, Nov. 7.

Sanderson, Robert T.: *See*— Kreuz, Kenneth L., and Sanderson.

Sanitary Products Corporation, assignee: *See*— Parish, Frank P.

Sauers, E. W., assignee: *See*— Smith, David C., and Oblinger.

Saunders, Frank S., Keynsham, near Bath, England. Hydrostatic scale. 2,529,194, Nov. 7.

Schauweker, George H., assignor to American Optical Company, Southbridge, Mass. Combined hood and respirator. 2,529,106, Nov. 7.

Schenkel, Elmer E., Casper, Wyo. Film clip. 2,528,668, Nov. 7.

Scherer, Lester G., Los Angeles, Calif. Auto checking and counting means for parking areas. 2,528,790, Nov. 7.

Schering Corporation, assignee: *See*— Papa, Domenick, and Schwenk.

Schiavone, Edward L., Silver Spring, Md. Sewing thimble. 2,528,976, Nov. 7.

Schildkraut, Helene: *See*— Schildkraut, Tamara and H.

Schildkraut, Tamara, Great Neck, and H. Schildkraut, New York, N. Y. Cosmetic case. 2,528,612, Nov. 7.

Schmid, Max W., St. Gallen, assignor to P. Steiger, Herisau, Switzerland. Roller skate. 2,529,314, Nov. 7.

Schneiderwirth, Herman J., Jenkintown, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Emulsions containing resins. 2,529,460, Nov. 7.

Schneiderwirth, Herman J., Jenkintown, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Emulsions. 2,529,461, Nov. 7.

Schoenrock, Otto E., Oak Park, Ill., assignor to J. I. Case Company, Racine, Wis. Pump throwout device. 2,528,669, Nov. 7.

Schou, Carl E., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Transmission mechanism. 2,529,423, Nov. 7.

Schroeder, Alice E., Los Angeles, Calif. Cake mold. 2,529,354, Nov. 7.

Schulz, Edward, Aurora, Ind. Overflow pipe and valve for flush tanks. 2,528,556, Nov. 7.

Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Production of dialkyl polysulfides. 2,529,355, Nov. 7.

Schwalm, Walter A., Oak Park, Ill., assignor to Zenith Radio Corporation. Damper for hearing aids. 2,529,228, Nov. 7.

Schwenk, Erwin: *See*— Papa, Domenick, and Schwenk.

Sciascia, Matthew: *See*— Farber, Eduard, and Sciascia.

Scott & Williams, Incorporated, assignee: *See*— Page, Frank R.

Scovill Manufacturing Company, assignee: *See*— Janes, Edmund D., and Carpinella, Seaver, Donald A.

Scoville, Robert W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Pressure control apparatus for engine cooling systems. 2,528,791, Nov. 7.

Seago, Alfred C., assignee: *See*— Henderson, Lee R.

Seaman, Ralph H., Auburndale, Mass. Grooved game board for spherical play pieces. 2,528,792, Nov. 7.

Seaver, Donald A., West Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Safety feature for swivel lipstick containers. 2,529,266, Nov. 7.

Sebald, Joseph F., Bloomfield, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Temperature control apparatus for vent condensers. 2,528,613, Nov. 7.

Sebesta, Harvey E., Wilson, Kans. Hay hoist boom. 2,528,670, Nov. 7.

Seerist, Horace A., Dedham, assignor to The Kendall Company, Boston, Mass. Cotton felt and making the same. 2,528,793, Nov. 7.

Segee, James E., Lawrence, and W. J. Gosselin, Methuen, Mass., assignors to U. S. Bobbin & Shuttle Co., Providence, R. I. Take-up tension for shuttles. 2,528,915, Nov. 7.

Seidler, Carl, Rochester, N. Y., assignor, by mesne assignments, to Hang-All Corporation. Attachment for suspending clothing in automobile bodies. 2,528,794, Nov. 7.

Seigh, Joseph W., Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Push on closure cap. 2,529,424, Nov. 7.

Selnick, Eugene H., Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Furnace combustion chamber closure with fluid jet gas escape prevention means. 2,528,671, Nov. 7.

Selvey, Arthur M.: *See*— Reinhart, Howard A., and Selvey.

Serniuk, George E., Roselle, N. J., assignor to Standard Oil Development Company. Amine activated emulsion polymerization process. 2,529,315, Nov. 7.

Sevald, William T., assignee: *See*— Saffady, Thomas F.

Seymour, George W., G. C. Ward, and R. L. Hunter, Cumberland, Md., assignors to Celanese Corporation of America. Vat dyeing process for cellulose acetate textile material. 2,528,614, Nov. 7.

Shapiro, Abraham, New York, N. Y. Optical demonstrating device. 2,529,107, Nov. 7.

Shapiro, Carl L., Beaver Falls, Pa., assignor to Acryvin Corporation of America, Astoria, N. Y. Polymeric acrylate ester compositions. 2,529,108, Nov. 7.

Shapiro, Samuel A., Bronx, N. Y. Refrigerant control manifold. 2,528,557, Nov. 7.

Sharp & Dohme, Incorporated, assignee: *See*— Schneiderwirth, Herman J.

Sharp, Thomas D., New Orleans, La. System of furnishing air conditioning, communication, and entertainment to parked vehicles. 2,529,425, Nov. 7.

Shayne, William W., Miami, Fla. Coin-controlled music exchange. 2,529,356, Nov. 7.

Sheets, Lowell H.: *See*— Kelling, Leroy U. C., and Sheets.

Shell Development Company, assignee: *See*— Johnson, Ava J.
Smith, Curtis W., and Ballard.
'T Hart, Marius, Hoog, and Weeda.
Wiles, Quentin T.
Wiles, Quentin T., and Newey.

Shellmar Products Corporation, assignee: *See*— Cox, John W.
Piazze, Thomas E.

Sherman, Edward A., Washington, D. C. Auxiliary table top. 2,529,051, Nov. 7.

Sherman, Ralph, Warren, Ohio. Maintenance of conductivity in electrical systems. 2,528,558, Nov. 7.

Sherwin-Williams Company, The, assignee: *See*— Coffey, Charles A., Walton, and Britan.

Sherwood, Glenn L., Benton Harbor, Mich. Venetian blind construction. 2,529,229, Nov. 7.

Sherwood, Perley A., Camden, N. J. Photographic slide viewer and projector. 2,529,052, Nov. 7.

Shields, Walter A., Jamaica, N. Y. Apparatus for sealing tubular glass articles. 2,529,109, Nov. 7.

Shontz, Ellsworth E., assignor to H. D. Polachek, Des Moines, Iowa. Self-contained portable ice plant. 2,528,795, Nov. 7.

Shoopman, Bertram H., Baytown, Tex., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Wiper cord fastener for stepping switches. 2,529,426, Nov. 7.

Shreve, Clifford B., Buchanan, assignor to Tyler Fixture Corporation, Niles, Mich. Refrigerated shelving. 2,528,916, Nov. 7.

Shuler, James: *See*— Lewis, Felix, and Shuler.

Shutter, Abram L., West Haven, Conn. Oarlock. 2,529,357, Nov. 7.

Siemens Brothers & Co. Limited, assignee: *See*— Long, Douglas P.

Silver, Martin: *See*— Young, Norman H., Jr., Silver, and French.

Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Sensitometric device. 2,528,977, Nov. 7.

Simmon Brothers, Inc., assignee: *See*— Simmon, Alfred.

Simmons, Leo E., Shreveport, La. Piston construction. 2,529,053, Nov. 7.

Singer Manufacturing Company, The, assignee: *See*— Andres, William A.

Sitnick, Peter A., Sunland, and A. W. Christopher, said Sitnick assignor to C. B. Howell, Los Angeles, Calif. Pressing iron holder. 2,528,846, Nov. 7.

Skirvin, Woodrow, assignee: *See*— Kerby, Harmon C.

Slater, Clarence R., assignor of forty-nine per cent to J. W. Slater, Lewisville, Tex. Cotton stalk cutter with rotary cutting reels. 2,529,358, Nov. 7.

Slater, John W., assignee: *See*— Slater, Clarence R.

Sloane, Milton, Hartford, Conn. Collapsible container. 2,529,267, Nov. 7.

Slocum, Arthur G., Ensign, Kans. Portable conveyer for grain and other materials. 2,528,917, Nov. 7.

Smith, Curtis W., Berkeley, and S. A. Ballard, Orinda, assignors to Shell Development Company, San Francisco, Calif. Synthesis of pyridine bases. 2,528,978, Nov. 7.

Smith, David C., and L. I. Oblinger, Toledo, assignors of thirty per cent to E. W. Sauers and thirty per cent to A. E. Giesey, Cleveland, Ohio. Combined door latch and lock. 2,529,230, Nov. 7.

Smith, Earle J., Midland Township, Midland County, assignor to Dow Corning Corporation, Midland, Mich. Siloxane resins. 2,528,615, Nov. 7.

Smith, Edwin K.: *See*— De Florez, Luis, Smith, and Hoover.

Smith, Harold A., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. X-ray apparatus. 2,529,054, Nov. 7.

Smith, Harvey R., Ann Arbor, Mich. Golf driving machine. 2,528,616, Nov. 7.

Smith, J. P., Shoe Company, assignee: *See*— Lipton, Henry.

Smith-Meeker Engineering Co., assignee: *See*— Woodworth, Frederick B., and Lindley.

Smith, Ralph E., assignor to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Sheet metal wheel structure. 2,529,231, Nov. 7.

Smith, Robert F., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Valve mechanism. 2,528,796, Nov. 7.

Smith, Stanley J.: *See*— Goudime-Levkovitsch, Paul, and Smith.

Smith, Ward D., assignee: *See*— Van Ranst, Cornelius W., and Smith.

Smoot, Charles H., assignor to Republic Flow Meters Company, Chicago, Ill. Voltage limiting means. 2,529,055, Nov. 7.

Smuiski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Adjustable length windshield wiper arms. 2,528,979, Nov. 7.

Smyers, William H., Westfield, and E. P. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company. Acylating butadiene-styrene copolymers. 2,529,316, Nov. 7.

Smyser, Elmer D., Torrance, assignor of one-half to F. C. Ripley, Los Angeles, Calif. Rotary fluid motor. 2,528,617, Nov. 7.

Snedeker, Claude Q., Canton, Ohio. Antiskid device for automobile tires. 2,529,427, Nov. 7.

Societe Anonyme de Construction de Materiel Automobile (S. A. C. M. A.), assignee: *See*— Mennesson, Marcel.

Societe Anonyme de Matieres Colorantes, et Produits Chimiques Francolor, assignee: *See*— Lantz, Robert, and Moinard.

Societe Anonyme pour l'Industrie de l'Aluminum, assignee: *See*— Müller, Paul.

Societe Francaise Radio-Electrique, assignee: *See*— Chireix, Henri.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*— Augustine, Frederick B.
Marisic, Milton M.
McCracken, John H.
Norris, Henry D.
Pinney, Ernest F.
Reiff, Orland M., and Andress.
Richter, Frederick P., and Fuller.
Sachanen, Alexander N., and Caesar.

Somville, Charles, assignee: *See*— Bodinaux, Gaston, and Malchair.

Sonotone Corporation, The, assignee: *See*— Crownover, Joseph W., and Pearson.

Sossi, John, Bayside, N. Y. Window lock. 2,528,618, Nov. 7.

Spalding, John D.: *See*— Babcock, Lloyd L., and Spalding.

Spanel, Abraham N., Princeton, N. J. Rubber or latex article. 2,528,980, Nov. 7.

Specialties Development Corporation, assignee: *See*— Heigis, Henry E.

Sperry Corporation, The, assignee: *See*— Nolt, Edwin B.

Spielman, Sterling C., Huntingdon Valley, assignor to Philco Corporation, Philadelphia, Pa. Automatic gain control system. 2,529,428, Nov. 7.

Spiro, Harry, Chicago, Ill. Dental apparatus. 2,529,429, Nov. 7.

Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic device having detachable shield. 2,529,110, Nov. 7.

Sprague, Chester E., Portland, Oreg. Centrifugal switch. 2,528,845, Nov. 7.

Spray Process Co. Inc., assignee: *See*— Vose, Edwin W.

Sprowl, Paul P., Bakersfield, Calif. Line adjuster. 2,529,056, Nov. 7.

Squires, Walter, Jr., Westfield, N. J., assignor to Standard Oil Development Company. Apparatus for the conversion of energy in a flowing stream of fluids. 2,529,317, Nov. 7.

Stahl, William F., assignee: *See*— Collins, Fred V.

Standard Oil Company, assignee: *See—*
Evering, Bernard L., and Peters.
Lien, Arthur P., and McCaulay.

Standard Oil Development Company, assignee: *See—*
Blumer, Adam F., and Verret.
Corner, Eugene S., and Kerby.
Gilliland, Edwin R.
Hall, Ike D.
Lieber, Eugene.
McDermott, John P.
Mikeska, Louis A., and Cyphers.
Richardson, Roger W., and Kimberlin, Jr.
Rupp, Walter H.
Serniuk, George E.
Snyders, William H., and Cashman.
Squibbs, Walter, Jr.
Tegge, Bruce R.
Zimmer, John C., and Bartlett.

Stanius, Godfrey, Chicago, Ill. Flexure testing apparatus. 2,528,918, Nov. 7.

Stanley, Lester N.: *See—*
Von Glahn, William H., and Stanley.

Stanton, Austin N., Garland, Tex. Tuning fork. 2,529,430, Nov. 7.

Steele, Claude G., assignor of one-third to M. F. Crouch and one-third to R. J. Holhouser, Mooresville, N. C. Window mounted collapsible fire escape. 2,529,112, Nov. 7.

Steele, Samuel W., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Bellows trimming machine. 2,528,731, Nov. 7.

Steiger, Paul, assignee: *See—*
Schmid, Max W.

Stein, Bernard, Ozone Park, N. Y. Electric lighter and dispenser for cigarettes. 2,528,619, Nov. 7.

Stein, Charles F., La Grange, Ill., assignor to Pratt, Read and Company, Inc., Ivoryton, Conn. Piano action. 2,528,797, Nov. 7.

Steinberger, Arthur W., Elizabeth, N. J., assignor to Curtiss-Wright Corporation. Control for welding machine. 2,529,111, Nov. 7.

Steins, Carleton K., Merion, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Power-operated valve. 2,529,431, Nov. 7.

Sterlingworth Company, assignee: *See—*
Medlar, Lewis A., and Godshalk.

Stevens, Harry A., Hartford, Conn. Safety device for automatic pistols. 2,529,359, Nov. 7.

Stewart-Warner Corporation, assignee: *See—*
Allen, George W.

Stierlin, Hans, Zurich, Switzerland. Absorption refrigerating apparatus. 2,529,113, Nov. 7.

Stigen, Alf L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Producing aromatized butter by cooling rich cream, and product thereof. 2,529,232, Nov. 7.

Stiller, Paul, assignee: *See—*
Machleder, Irving.

Stoker, Carl W.: *See—*
Campbell, Charles H., Ferito, and Stoker.

Stokes, John C., assignor to Reed Roller Bit Company, Houston, Tex. Formation testing apparatus. 2,528,981, Nov. 7.

Stolberg, Sven A., Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Automatic phonograph. 2,529,474, Nov. 7.

Stone, Carl R., and E. A. Fredrickson, assignors to Crane Co., Chicago, Ill. Sink waste fitting. 2,528,919, Nov. 7.

Stone, Sink J., Swannanoa, N. C. Circuit breaker. 2,529,195, Nov. 7.

Stoner, Harry B., Aurora, Ill. Vending machine. 2,529,196, Nov. 7.

Stora Kopparbergs Bergslags Aktiebolag, assignee: *See—*
Haglund, Ture R.

Storberg, Samuel G., St. Paul, Minn. Sanding device. 2,529,197, Nov. 7.

Storm, Herbert F., Milwaukee, Wis., assignor to Sunbeam Corporation. Control arrangement for a high-frequency heating device. 2,528,798, Nov. 7.

Storm, Herbert F., Schenectady, N. Y., assignor to General Electric Company. Chuck magnetizing and demagnetizing control system. 2,529,198, Nov. 7.

Stover, Harry E., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Machine and method for hermetically sealing closure caps to containers. 2,529,199 Nov. 7.

Stover, Wilfred H., Neptune Beach, Fla. Figured toy. 2,528,920, Nov. 7.

Stribley, Josephine M.: *See—*
Lake, George R., and Stribley.

Strickland, Raymond I., Greenbelt, Md., and H. A. Knox, Washington, D. C. Brake controlled differential for skid steering of vehicles. 2,528,559, Nov. 7.

Strong, Earl G., Milan, Ohio. Bowling pin elevating and resetting mechanism. 2,528,560, Nov. 7.

Strong, John G., Milwaukee, Wis. Rod retriever assembly. 2,528,799, Nov. 7.

Stroud, Robert, Toronto, assignor to Niagara Screens & Machines Limited, York County, Ontario, Canada. Screen vibrating mechanism. 2,528,620, Nov. 7.

Sturman, Robert E., Minneapolis, Minn. Window. 2,528,800 Nov. 7.

Stutsman, Paul W., Needham, assignor to Raytheon Manufacturing Company, Newton, Mass. Gaseous-discharge device. 2,529,233, Nov. 7.

Sullivan, James L., Clinton, Okla. All purpose vehicle carrier and loader. 2,528,672, Nov. 7.

Sun Tube Corporation, assignee: *See—*
Friden, John H.

Sunbeam Corporation, assignee: *See—*
Storm, Herbert F.

Swanson, Bernard J., Fort Wayne, Ind. Ink applying instrument. 2,528,921, Nov. 7.

Swanson, Donald H., Minneapolis, Minn. Keyhole illuminator. 2,529,234, Nov. 7.

Swanson, Elmer C., Larchwood, Iowa. Sack opening device. 2,528,562, Nov. 7.

Swanson, Hilbert E., Milwaukee, assignor to Unit Crane & Shovel Corp., West Allis, Wis. Material handling machine. 2,529,200, Nov. 7.

Swarthout, Dorothy M., Kewaskum, Wis. Baking pan with separator blade therefor. 2,528,561, Nov. 7.

Sweetser, Chauncey E., assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,528,621, Nov. 7.

Swift & Company, assignee: *See—*
Black, Howard C.

Sylvania Electric Products, Inc., assignee: *See—*
Kurtz, Jacob, and Waldie.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Friction member. 2,529,235, Nov. 7.

Talbot, Frank A., Baltimore, Md., assignor of one-half to R. E. Barry, Washington, D. C. Circuit maker and breaker. 2,528,922, Nov. 7.

Tauss, Morris E., Rockaway Park, N. Y. Innerspring construction for mattresses, cushions, and the like. 2,529,268, Nov. 7.

Taylor, Barney L., Garrett Park, Md. Stereoscopic viewing device. 2,528,673, Nov. 7.

Taylor, Maurice C., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Dichlorostyrene as accelerator in the polymerization of butadiene-1,3 with styrene. 2,529,201, Nov. 7.

Teenstra, William L., Rutherford, N. J. Machine for forming rosettes. 2,528,622, Nov. 7.

Teffault, George J., Royal Oak, Mich. Illuminated gun sight. 2,529,057, Nov. 7.

Tegge, Bruce R., Roselle, N. J., assignor to Standard Oil Development Company. Low-temperature polymerization at the freezing point of the polymerizate material. 2,529,318, Nov. 7.

Tell, Philip, Madison, N. J. Assembling strung bead necklaces. 2,529,059, Nov. 7.

Tell, Philip, Madison, and A. Lehrhoff, Morristown, N. J. Device for predetermining fitting lengths of ornament strings. 2,529,058, Nov. 7.

Tellier, André, New York, N. Y. Safety drinking cup. 2,529,114, Nov. 7.

Tenner, Alfred S., Meadville, Pa. Locking means for outboard motors. 2,529,432, Nov. 7.

Tennessee Valley Authority, assignee: *See—*
Harvey, Stewart A., and Bridger.

Testut, Charles L., and A. Zanetti, New York, N. Y. Fixture for testing cylinders. 2,528,563, Nov. 7.

Texas Company, The, assignee: *See—*
Arnold, George B., and Kovach.
Herzog, Gerhard.
Kreuz, Kenneth L., and Sanderson.

Thalman, Sally W., assignor to The Warner Brothers Company, Bridgeport, Conn. Foundation garment. 2,529,115. Nov. 7.

'T Hart, Marius, Han H., and K. A. Weeda, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Reactivation of cobalt oxo catalyst. 2,529,236, Nov. 7.

Thomas, Joseph J., Los Angeles, Calif. Muffler with inner flexible corrugated conduit. 2,528,674, Nov. 7.

Thomson, William R., Ottawa, Ontario, Canada. Paper reeling method and apparatus. 2,528,713, Nov. 7.

Thorp, Clark E., and L. C. Kinney, assignors, by mesne assignments to The Meyercord Co., Chicago, Ill. Drying printing inks. 2,528,850, Nov. 7.

Thorsheim, Joseph O., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor control system. 2,529,116. Nov. 7.

Thys, Edouard, Sacramento, Calif. Arc furnace tilting and adjusting mechanism. 2,529,319. Nov. 7.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,528,675, Nov. 7.

Tinnerman Products, Inc., assignee: *See—*
Tinnerman, George A.

Tisdale, Leo S., Sr., Meridian, Miss. Antenna input circuit for radio receivers. 2,529,202. Nov. 7.

Tompkins, Howard E., Media, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electrical phase shift system. 2,529,117, Nov. 7.

Touchett, Lawrence P., Fond du lac, Wis., assignor to E. Z. Paintr Corporation. Ventilator. 2,529,462, Nov. 7.

Touton, Rush D., Wynnewood, assignor to Wurton Machine Company, Philadelphia, Pa. Device for controlling air compression. 2,528,982, Nov. 7.

Trane Company, The, assignee: *See—*
Hicke, Gerald E.

Transresearch of California, assignee: *See—*
Pond, William B.

Tray-Hart, Inc., assignee: *See—*
Reinhart, Howard A., and Selvey.

Trillich, Bertram L., Winnetka, assignor to The Munising Paper Company, Chicago, Ill. Self-sealing wrapping material. 2,529,060, Nov. 7.

Trimble, Joseph M.: *See—*
Kottkamp, Norman C., Bailey, Trimble, and Langsenkamp.

Trumbull Electric Manufacturing Company, The, assignee: *See—*
Getchell, Benjamin E.

Truskey, Gerald R.: *See—*
Wiper, Thomas I. and A., and Truskey.

Tschumi, Otto, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland. Double-acting rectifier arrangement cooperating with at least one alternating current-excited electromagnet, particularly an electromagnetic relay. 2,529,118, Nov. 7.

Tuerck, Karl H. W.: *See—*
Hall, Reginald H., and Tuerck.

Turco Products, Inc., assignee: *See—*
Kohl, Arthur L.

Turner, Archibald J., assignor to Wilson Athletic Goods Mfg. Co., Inc., Chicago, Ill. Baseball mitt. 2,528,802, Nov. 7.

Turner, Guilford S., Jr., assignor to Morris B. Brewster Co. Inc., Chicago, Ill. Sand delivery pipe nozzle. 2,528,801, Nov. 7.

Turner, Joseph L., Fair Haven, and H. V. Alessandroni, Rumson, N. J., assignors to National Lead Company, New York, N. Y. Electro-recovery of metals. 2,529,237, Nov. 7.

Turner, Richard J.: *See—*
Crossley, Moses L., Dreisbach, Turner, and Hofmann.
Crossley, Moses L., Turner, and Dreisbach.

Turpin, William W., East Orange, N. J., assignor to General Electric Company. Self-contained air conditioning unit. 2,529,203, Nov. 7.

Tyler Fixture Corporation, assignee: *See—*
Shreve, Clifford B.

Tymatics, Inc., assignee: *See—*
Cook, Harold M.

Union Oil Company of California, assignee: *See—*
Lake, George R., and Stribley.

Union Switch & Signal Company, The, assignee: *See—*
Breisch, Edgar W.
Breisch, Edgar W., and Doriot.

Unit Crane & Shovel Corp., assignee: *See—*
Rueter, Earle F.
Swanson, Hilbert E.

United Lens Corporation, assignee: *See—*
Coulter, Guy H.

United Shoe Machinery Corporation, assignee: *See—*
Bertrand, Frederic E., and Clark.
Bradley, Robert W., and Juhola.
Bradley, Robert W., and Wildman.
Clark, Alfred S.
Morrill, Alfred R.

U. S. Bobbin & Shuttle Co., assignee: *See—*
Segee, James E., and Gosselin.

United States Gypsum Company, assignee: *See—*
Nelson, William L.

United States Motors Corporation, assignee: *See—*
Johnson, Harry G., and Kalous.

United States Rubber Company, assignee: *See—*
Richmond, Henry H.

U. S. Slicing Machine Company, Inc., assignee: *See—*
Brustowsky, Morris.
Klingens, Cornelis.

Unkefer, Gilbert G., assignor to The Harshaw Chemical Company, Cleveland, Ohio. Preparation of metallic soaps. 2,528,803, Nov. 7.

Upham, Edward W.: *See—*
Calkins, William G., and Upham.

Upjohn Company, The, assignee: *See—*
Haines, William J., and Johnson.
Weisblat, David I., and Lyttle.
Wright, John B.

Utz, Edward J.: *See—*
Carothers, Thomas A., Des Jardins, and Utz.

Van Belle, Thomas B., Philadelphia, Pa. Laying carpets. 2,529,463, Nov. 7.

Van Norden, Ottomar H., New York, N. Y., assignor to Metakioth Company, Lodi, N. J. Filter cloth and preparing same. 2,528,847, Nov. 7.

Van Ranst, Cornelius W., and W. D. Smith, Dearborn, Mich.; said Smith assignor, by mesne assignments, to said Van Ranst. Fuel pump. 2,529,204, Nov. 7.

Van Zeeland, Frederick J.: *See—*
Zimmerman, Harold L., and Van Zeeland.

Varden Dress, Inc., assignee: *See—*
Klein, Ben, and Miller.

Vassy, Etienne, Paris, France. Facilitating the focusing of certain devices comprising a projection system, such as microphotometers. 2,528,923, Nov. 7.

Vassy, Etienne, Paris, France. Automatic registering microphotometer. 2,528,924, Nov. 7.

Velsicol Corporation, assignee: *See—*
Herzfeld, Simon H., and Kleiman.
Herzfeld, Simon H., and Ordas.

Venner, William M., Clayton, and P. L. Bowser, Jr., University City, Mo. Machine for finishing pistons. 2,529,433, Nov. 7.

Vergnaud, Paul, Melle, assignor to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France. Manufacture of butanediol and butanone. 2,529,061, Nov. 7.

Verret, Eugene J.: *See—*
Blumer, Adam F., and Verret.

Vibber, Foster L., Shrewsbury, Mass. Fishing line tension detector. 2,529,320, Nov. 7.

Vicard, Pierre G., Lyon, France. Low-temperature heater for heating air. 2,528,623, Nov. 7.

Vickers-Armstrong Limited, assignee: *See—*
Dannatt, Cecil, and Belsey.

Vigneau, André, Norrois, France. Machine for automatically setting and truing the ends of the teeth of saws. 2,528,925, Nov. 7.

Vogue Recordings, Incorporated, assignee: *See—*
Saffady, Thomas F.

Volz, Philip E., Orange, N. J., assignor, by mesne assignments, to Pierce Company, Providence, R. I. Automatic operation and selective calling system. 2,528,624, Nov. 7.

Von Glahn, William H., Loudonville, and L. N. Stanley, Delmar, assignors to General Aniline & Film Corporation, New York, N. Y. Diazotype composition containing N-hydroxyethyl-m-toluidine-p-diazos. 2,529,464, Nov. 7.

Von Pein, Edward J., Dayton, Ohio. Fishing reel. 2,528,926, Nov. 7.

Vose, Edwin W., Orange, N. J., assignor to Spray Process Co. Inc., New York, N. Y. Spraying device for liquids. 2,528,927, Nov. 7.

Voytershark, Frank P., and D. L. Churchill, Devon, Milford, Conn., said Voytershark assignor to said Churchill. Self-aligning lawn-mower blade. 2,528,625, Nov. 7.

Wadhams, James B., assignor to The Ohio Crankshaft Company, Cleveland, Ohio. High-frequency inductor block. 2,528,714, Nov. 7.

Wagner, Carl D.: *See—*
Brockman, Ellwood W., and Wagner.

Wagner, George B., Holbrook, Mass., assignor to Beekman Industries, Inc., New York, N. Y. Refrigerated shipping container. 2,528,715, Nov. 7.

Waldes Kohinoor, Inc., assignee: *See—*
Feitl, Rudolf.

Waldie, James D.: *See—*
Kurtz, Jacob, and Waldie.

Walker, Arnold W., Holder, Fla. Shredded metal holder. 2,529,434, Nov. 7.

Walker, Joseph F., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Paraformaldehyde from formaldehyde-containing gas. 2,529,269, Nov. 7.

Wallace, Le Roy W.: *See—*
Nelson, Ivar, and Wallace.

Wallace, Roger W., San Marino, and W. E. Colburn, Inyokern, Calif., assignors to the United States of America as represented by the Secretary of the Navy. Multiple grain rocket for propelling underwater torpedoes. 2,529,465, Nov. 7.

Wallach, Irving D.: *See—*
Wallach, Robert S. and I. D.

Wallach, Robert S., Madison, N. J., and I. D. Wallach, Port Washington, assignors to Associated Development & Research Corporation, New York, N. Y. Combination lock. 2,529,119, Nov. 7.

Wallach, Robert S., Madison, N. J., and I. D. Wallach, Port Washington, assignors to Associated Development & Research Corporation, New York, N. Y. Support for electric food mixers or the like. 2,529,120, Nov. 7.

Walters, Harry J., Auburn, Wash. Folding chair. 2,528,676, Nov. 7.

Walton, William T.: *See—*
Coffey, Charles A., Walton, and Britan.

Walz, Claude W., and R. D. Griff, Rock Island, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,528,804, Nov. 7.

Walz, Claude W., and R. D. Griff, Rock Island, and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,528,805, Nov. 7.

Walz, Claude W., and H. F. Clausen, Rock Island, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,528,806, Nov. 7.

Wannamaker, William H., Jr., Flourtown, and J. C. Mouzon, Wyndmoor, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,528,626, Nov. 7.

War, United States of America as represented by the Secretary of, assignee: *See—*
Peterson, Glen, and Ercolino.

Ward, George C.: *See—*
Seymour, George W., Ward, and Hunter.

Warholoski, Fred, Columbus, Nebr. Plowshare. 2,529,435, Nov. 7.

Warner Brothers Company, The, assignee: *See—*
Thalman, Sally W.

Warren, Donald M., La Fayette, Ind. Puzzle. 2,529,321, Nov. 7.

Weber, Ernst, Mount Vernon, and J. W. E. Griemsmann, Bellaire, assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Metal film attenuator. 2,529,436, Nov. 7.

Weber, Louis J., Borger, Tex., assignor to Phillips Petroleum Company. Furnace. 2,528,564, Nov. 7.

Weber, Raphael A., Toledo, Ohio. Safeguarding device for machine tools. 2,528,565, Nov. 7.

Webster-Chicago Corporation, assignee: *See—*
Dale, Colin B.

Webster, Robert, Upper Darby, Pa. Self-piercing and self-holding test prod. 2,529,270, Nov. 7.
Weed, Wayne B., assignee: *See*—
Whitney, Robert B.
Weeda, Krijn A.: *See*—
T Hart, Marius, Hoog, and Weeda.
Welland, John N., assignor to The Cleveland Punch & Shear Works Co., Cleveland, Ohio. Fluid actuated clutch and brake mechanism. 2,529,121, Nov. 7.
Welmer, William H., North Prairie, assignor to Davis & Thompson Company, West Allis, Wis. Machine tool chuck. 2,529,205, Nov. 7.
Weinberger, George S., San Francisco, Calif. Governor control for internal-combustion engines. 2,529,437, Nov. 7.
Weinzimmer, Samuel J., New Rochelle, N. Y. Skirt and curtain supporting construction. 2,528,848, Nov. 7.
Weisblat, David I., and D. A. Lyttle, assignors to The Upjohn Company, Kalamazoo, Mich. Substituted nitro malonic esters. 2,528,928, Nov. 7.
Weiss, Abraham, New York, N. Y. Saving fuel in internal-combustion engines. 2,528,983, Nov. 7.
Welch, Theodore R., Denville, N. J., assignor to General Motors Corporation, Detroit, Mich. Inspection of raceway surfaces and the like. 2,529,360, Nov. 7.
Weldon, Harry A., Eastchester, assignor to American Cyanamid Company, New York, N. Y. Blending DDT. 2,529,466, Nov. 7.
Wennerbo, Erik, assignor to Industriaktiebolaget Luxor, Motala, Sweden. Automatic magazine phonograph. 2,529,488, Nov. 7.
Wessendorf, Henry B., Dayton, Ohio. Lawn trimmer. 2,528,929, Nov. 7.
West, John B., assignor to Maryland Paper Products Company, Inc., Baltimore, Md. Straw packaging machine. 2,528,930, Nov. 7.
West, John W., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-power electron discharge device. 2,528,849, Nov. 7.
West Road Co. Limited, assignee: *See*—
Goudime-Levkovitsch, Paul, and Smith.
Westendorp, Willem F.: *See*—
Langmuir, Robert V., Pollock, and Westendorp.
Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Electron accelerator having direct current starting circuit. 2,528,526, Nov. 7.
Western Reserve University, assignee: *See*—
Pillemer, Louis.
Western Union Telegraph Company, The, assignee: *See*—
Angel, Herbert.
Ridings, Garvice H.
Westinghouse Electric Corporation, assignee: *See*—
Clark, Earl K.
Penney, Gaylord W.
Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Anthony H.
Williams, Alexander T., and Huber.
Wetherbee, George D., assignee: *See*—
Hammond, Eugene H., and Wetherbee.
Whisenhunt, David S., Florence S. C. Pressure spray and washing device. 2,528,566, Nov. 7.
White, John B., West Springfield, Mass. Concrete block molding machine. 2,528,931, Nov. 7.
Whiting Corporation, assignee: *See*—
Ortgies, Raymond C.
Whiting, Harold W., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Operating mechanism for the intake valve of expander engines. 2,528,627, Nov. 7.
Whitmore, Harland W., Kenosha, assignor to Motor Products Corporation, Detroit, Mich. Bottle cooler. 2,529,439, Nov. 7.
Whitney, Frank H., Providence, R. I. Shelving. 2,528,807, Nov. 7.
Whitney, Robert B., assignor of one-half to W. B. Weed, Kansas City, Mo. Ventilated underwater internal-combustion engine. 2,528,628, Nov. 7.
Wico Electric Company, assignee: *See*—
Brownlee, Allen L., and L.
Louis, Terrence G.
McGreevy, George F.
Wiechert, George A., St. Albans, N. Y. Artificial denture. 2,528,629, Nov. 7.
Wiggins, Alpha M., Clay Township, St. Joseph County, Ind., assignor to Electro Voice, Inc., Buchanan, Mich. Second order differential microphone. 2,529,467, Nov. 7.
Wildman, Richard C.: *See*—
Bradley, Robert W., and Wildman.
Wiles, Quentin T., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Adhesive composition containing glycidyl ethers and alumina. 2,528,933, Nov. 7.
Wiles, Quentin T., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Adhesive composition containing a fluidized glycidyl ether and an amphoteric oxide. 2,528,934, Nov. 7.
Wiles, Quentin T., Lafayette, and H. A. Newey, Richmond, assignors to Shell Development Company, San Francisco, Calif. Compositions containing glycidyl ethers. 2,528,932, Nov. 7.
Wilhelm, George M., New York, N. Y. Fluid fuel burner having preheating and superheating mechanism for air and steam employed in the burner. 2,528,984, Nov. 7.
Williams, Alexander T., Westfield, and P. Huber, Hillside, assignors to Weston Electrical Instrument Corporation, Newark, N. J. Exposure meter. 2,528,716, Nov. 7.
Williams, Benjamin F., Lynwood, Calif. Sewing machine mounting. 2,528,935, Nov. 7.
Williams, Clifford C., Joliet, Ill. Well pump installation. 2,529,062, Nov. 7.
Williams, Gordon M., Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio. Polymerizing nonwrinkling oils to wrinkling oils. 2,528,936, Nov. 7.
Williams, Gordon M., Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio. Wrinkling oils. 2,528,937, Nov. 7.
Williams, J. H., & Company, assignee: *See*—
Potts, Oliver F.
Williams, Keith, Buffalo, N. Y. Hand brake holding and releasing mechanism. 2,529,063, Nov. 7.
Williams, Keith, Buffalo, N. Y. Hand brake. 2,529,064, Nov. 7.
Williams, Leon A., Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y. Basket weave chain. 2,528,567, Nov. 7.
Williams, Leon A., Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y. Expansible basket-weave chain. 2,528,568, Nov. 7.
Willis, Ralph F., McKeesport, Pa., assignor to National Tube Company. Shield for electromagnets. 2,529,440, Nov. 7.
Wilson Athlete Goods Mfg. Co., Inc., assignee: *See*—
Turner, Archibald J.
Wilson, Roy W., Oak Park, Ill. Child's sleeping garment. 2,528,677, Nov. 7.
Winkler, Elizabeth L., Great Neck, N. Y. Open out bed jacket. 2,528,630, Nov. 7.
Winslow, Arthur F., Scotia, and E. W. Balis, Schenectady, N. Y., assignors to General Electric Company. Increasing the corrosion resistance of ferrous articles. 2,529,206, Nov. 7.
Winter, Courtney P., Chambersburg, Pa., assignor to the United States of America, as represented by the Secretary of the Navy. Marine anchorage means. 2,529,271, Nov. 7.
Wiper, Arnold: *See*—
Wiper, Thomas I. and A., and Truskey.
Wiper, Thomas I. and A., and G. R. Truskey, Leamington, Ontario, Canada. Potato top puller. 2,528,631, Nov. 7.
Wissenbach, Charles F.: *See*—
Fickett, Ernest L., and Wissenbach.
Wolf, Carl R., Denver, Colo. Magnetic game device. 2,528,938, Nov. 7.
Woodworth, Frederick B., Sempstead, and F. A. Lindley, Jr., Flushing, assignors to Smith-Meeker Engineering Co., New York, N. Y. Frequency control system. 2,528,632, Nov. 7.
Woolley, George H., Shapshed, England. Knitting machine. 2,529,207, Nov. 7.
Worthington Pump and Machinery Corporation, assignee: *See*—
Sebald, Joseph F.
Whitting, Harold W.
Wright, John B., assignor to The Upjohn Company, Kalamazoo, Mich. Pyrrolidylethyl carbazole compounds. 2,528,939, Nov. 7.
Wright, John B., assignor to The Upjohn Company, Kalamazoo, Mich. Pyrrolidylethyl indole compounds. 2,528,940, Nov. 7.
Wright Machinery Company, assignee: *See*—
Clark, Robert A.
Rappaport, Sigmund, and Proctor.
Wunsch, Harry, Brooklyn, N. Y. Hydraulically actuated swing boom crane. 2,528,985, Nov. 7.
Wurton Machine Company, assignee: *See*—
Touton, Rush D.
Yost, Vincent W., Lynwood, Calif. Variable mold for forming cork insulation. 2,528,808, Nov. 7.
Young, Lloyd W., Elizabeth, N. J., assignor to The Linde Air Products Company. Blowpipe apparatus. 2,528,809, Nov. 7.
Young, Norman H., Jr., Jackson Heights, M. Silver, Bronx, and H. A. French, Brooklyn, assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y. Voltage regulator circuit. 2,528,569, Nov. 7.
Yoxall, John, Detroit, Mich. Flared jamb furnace door frame. 2,529,272, Nov. 7.
Zak, Jerry J.: *See*—
Rose, Morris, and Zak.
Zanetti, Angelo: *See*—
Testut, Charles L., and Zanetti.
Zawistowski, Martin, Huntington Station, N. Y. Cloth-cutting machine. 2,529,441, Nov. 7.
Zelan Rubber Cement Plug Co., assignee: *See*—
Lamb, Charles.
Zelov, Victor I., Rosemont, Pa. Combined lamp shade and socket for elongated tubular lamps. 2,529,122, Nov. 7.
Zenith Radio Corporation, assignee: *See*—
Hardy, Maurice E.
Schwalm, Walter A.
Zimmer, John C., Union, and J. H. Bartlett, Westfield, N. J., assignors to Standard Oil Development Company. Preparing synthetic drying oils. 2,529,322, Nov. 7.
Zimmerman, Harold L., Milwaukee, and F. J. Van Zeeland, West Allis, assignors to Chain Belt Company, Milwaukee, Wis. Induction heating and welding. 2,528,810, Nov. 7.
Zola, Albert: *See*—
Cohn, Louis A., and Zola.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gyro vertical. F. D. Braddon. Re. 23,291, Nov. 7.
Latch for automotive vehicle doors. B. J. Craig. Re. 23,292, Nov. 7.

LIST OF PLANT INVENTIONS

Chrysanthemum plant. E. Prushek. 987, Nov. 7.

Rose plant. F. H. Howard. 986, Nov. 7.

LIST OF DESIGN INVENTIONS

Apron. M. L. Smalley. 160,821, Nov. 7.
Ash tray and snuffer, Combined. E. Wedemeyer. 160,823–5, Nov. 7.
Ash tray, cigarette, and match holder, Combined. M. Iwanoski. 160,786, Nov. 7.
Bowl, Oval. M. G. Yetzey. 160,829, Nov. 7.
Bowl, Sugar. R. G. Cowan. 160,770, Nov. 7.
Bracelet, Expansible watch. A. Albanese. 160,759, Nov. 7.
Chain, Jewelry. E. W. Deines. 160,775, Nov. 7.
Chair. H. Sebel. 160,816, Nov. 7.
Coaster and bracket, Combined. G. L. Bender. 160,764, Nov. 7.
Coat. H. Mandelbaum. 160,800, Nov. 7.
Container for cream soap or the like. D. D. Whyte. 160,826, Nov. 7.
Controller for toy railroads. J. L. Bonanno. 160,765, Nov. 7.
Cover for sugar bowl. R. G. Cowan. 160,771, Nov. 7.
Cover, Golf club. J. S. Runyon. 160,807, Nov. 7.
Cup. R. G. Cowan. 160,769, Nov. 7.
Decanter or similar article. J. D. Buckingham and P. Fink. 160,768, Nov. 7.
Decanter or similar article. P. Fink. 160,778–9, Nov. 7.
Faucet and sink, Combined. C. K. Brown, Jr. 160,767, Nov. 7.
Fishing lure. H. B. Marshall and H. L. Baker. 160,802, Nov. 7.
Fixture, Light. M. Kushner. 160,791, Nov. 7.
Fount for kerosene oil lamps. S. Scherr and F. E. Smith. 160,813, Nov. 7.
Fountain, Beverage dispensing. K. D. Huffman. 160,784, Nov. 7.
Grille guard, Automobile. H. M. Jenkins, Jr. 160,788, Nov. 7.
Hanger, Clothes. H. G. Kongieser and C. W. Weickers. 160,790, Nov. 7.
Holder or similar article, Flowerpot. A. J. Giese. 160,781, Nov. 7.
Housing for an automobile medallion. H. T. Bannister. 160,761, Nov. 7.
Housing for automobile lamps, Lens. H. W. Pilkey. 160,806, Nov. 7.
Housing for automobile lamps, Lens. D. E. Scott. 160,814, Nov. 7.
Jacket or similar article. H. Mandelbaum. 160,799, Nov. 7.
Jacket or similar article. H. Mandelbaum. 160,801, Nov. 7.
Jar, Complexion cream. L. H. Singer and E. M. Corper. 160,819, Nov. 7.
Lamp, Wall. R. D. Schear and J. G. Berg. 160,809, Nov. 7.
Lens housing and grille panel, Combined automobile lamp. H. T. Bannister. 160,762, Nov. 7.
Light adapter for photoelectric exposure meters, Incident. A. T. Williams. 160,827, Nov. 7.
Light, Utility. C. J. La Roe. 160,793, Nov. 7.
Medal. L. H. Dietzel. 160,777, Nov. 7.
Medallion for shoes or the like, Embroidered. S. S. Jaaj. 160,787, Nov. 7.
Mending machine. K. Scheiwiller. 160,812, Nov. 7.
Motor operated centrifugal pump, Electric. E. C. Slaughter. 160,826, Nov. 7.
Ornament for an automobile, Fender. D. E. Scott. 160,815, Nov. 7.
Ornament for an automobile grille. H. T. Bannister. 160,760, Nov. 7.
Panel for remote measuring and control instrument, Control. J. G. Booth. 160,766, Nov. 7.
Pendant, Jewelry. E. R. Neyhard. 160,803, Nov. 7.
Petticoat. A. Friedman. 160,780, Nov. 7.
Pickup arm, Phonograph. J. E. Vistain, Jr., and S. E. Adler. 160,822, Nov. 7.
Pitcher, Cream. R. G. Cowan. 160,772, Nov. 7.
Plaque. D. J. Cristofoletti. 160,773, Nov. 7.
Plate or similar article. G. J. Higginson. 160,783, Nov. 7.
Pump for chemical solutions or the like, Metering. R. B. Saalfrank. 160,808, Nov. 7.
Range. J. M. Little. 160,798, Nov. 7.
Receiver, Ash. J. H. Barrett. 160,763, Nov. 7.
Reel, Fishing. H. G. Shakespeare and G. D. Harrington. 160,817, Nov. 7.
Sewing machine. K. Scheiwiller. 160,810–11, Nov. 7.
Shaver, Electric. C. L. Otto. 160,805, Nov. 7.
Ship hull. E. J. Sims. 160,818, Nov. 7.
Slide binder, Photographic. J. Huisgen. 160,785, Nov. 7.
Stocking. B. Ontra. 160,804, Nov. 7.
Stocking, Lady's. H. Levy. 160,796–7, Nov. 7.
Stove, Gas. H. Desguin and N. Sauvage. 160,776, Nov. 7.
Strainer, Sink. P. F. Danielsen. 160,774, Nov. 7.
Target, Trap shooting. L. R. Jordan. 160,789, Nov. 7.
Toy elephant. B. L. Levinson. 160,795, Nov. 7.
Toy mouse. B. L. Levinson. 160,794, Nov. 7.
Toy roly-poly or the like. C. Greene. 160,782, Nov. 7.
Toy wagon and trailer, Combined. M. W. La Fever, Jr. 160,792, Nov. 7.
Watch band. E. R. Wright. 160,828, Nov. 7.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator having direct current starting circuit, Electron. W. F. Westendorp. 2,528,526, Nov. 7.
Accelerator provided with starting auxiliary, Electron. R. V. Langmuir, H. C. Pollock, and W. F. Westendorp. 2,528,525, Nov. 7.
Acid adsorptive alumina, Preparation of. J. B. Hunter. 2,528,751, Nov. 7.
Acid alkylation of thiophene compounds, Sulfuric. K. L. Kreuz and R. L. Sanderson. 2,529,298, Nov. 7.
Acid fading inhibition using N-benzylated amino-triazoles and tetrazoles. H. W. Grimmel and J. F. Morgan. 2,529,016, Nov. 7.
Acid-treating a contaminated water-immiscible bead-forming oil. R. W. Richardson and C. N. Kimberlin, Jr. 2,529,310, Nov. 7.
Acrylonitrile to white polymers in dimethyl formamide, Polymerization of. J. C. Richards. 2,528,710, Nov. 7.
Actuator, Time controlled. B. Marcellus. 2,528,766, Nov. 7.
Adjustable buckle holder. E. D. Janes and M. J. Carpinella. 2,529,452, Nov. 7.
Adjustably mounted seat. W. J. Preising and R. H. Bynum. 2,528,607, Nov. 7.
Adjuster, Line. P. P. Sprowl. 2,529,056, Nov. 7.
Air conditioning apparatus for heating and cooling. T. W. Binder. 2,528,720, Nov. 7.
Air conditioning unit, Self-contained. W. W. Turpin. 2,529,203, Nov. 7.
Alkyd resins and products, Manufacture of modified. C. A. Coffey, W. T. Walton, and N. Britan. 2,528,946, Nov. 7.
Alkyl phenols, Purification of. J. J. Ayo and F. J. Gajewski. 2,529,209, Nov. 7.
Altar construction, Portable. E. I. Cohen. 2,529,002, Nov. 7.
Amides, Preparing unsaturated. D. T. Mowry. 2,529,455, Nov. 7.
Amine activated emulsion polymerization process. G. E. Serniuk. 2,529,315, Nov. 7.
Amplification system for very short waves, Power. H. Chireix. 2,529,073, Nov. 7.
Amplified Hearing aid. J. W. Crownover and H. A. Pearson. 2,528,498, Nov. 7.
Amplifier, Low-frequency power. L. L. Pourciau and R. L. Garman. 2,529,459, Nov. 7.
Amplifier, Phase-inverter. E. E. Carpentier. 2,528,484, Nov. 7.
Amusement and exercising apparatus. T. A. Hall. 2,529,017, Nov. 7.
Amusement device. C. Herrmann. 2,528,516, Nov. 7.
Anchorage means, Marine. C. P. Winter. 2,529,271, Nov. 7.
Antenna, Ground plane. J. Goldsmith. 2,529,213, Nov. 7.
Antenna, Loop. C. A. Raabe. 2,528,667, Nov. 7.
Antiskid device for automobile tires. C. Q. Snedeker. 2,529,427, Nov. 7.
Apparatus and process for producing capsules. B. D. Pile and A. H. McCallum. 2,529,416, Nov. 7.
Apparatus for applying mold wash. T. K. Graham. 2,529,291, Nov. 7.
Apparatus for artificial respiration. F. G. Lobo. 2,529,258, Nov. 7.
Apparatus for cleaning stack gas. R. C. Ortgies. 2,529,045, Nov. 7.
Apparatus for conveying liquids. M. L. Cover. 2,528,642, Nov. 7.
Apparatus for cooking and canning meat patties. J. Hoffman and A. Gruff. 2,529,253, Nov. 7.
Apparatus for delivering measured quantities of material. J. G. Nilsson. 2,529,457, Nov. 7.
Apparatus for dispensing liquefied gases. A. L. Preston. 2,528,780, Nov. 7.
Apparatus for flame cultivation of plants. P. C. McLemore. 2,528,899, Nov. 7.
Apparatus for fraying strip fabrics. T. G. Nanson. 2,529,042, Nov. 7.
Apparatus for making endless V-belts. H. G. Lykken. 2,529,301, Nov. 7.
Apparatus for making records. L. M. Keefe. 2,529,083, Nov. 7.
Apparatus for melting rubberized bituminous compositions. A. M. Root, Jr. 2,528,975, Nov. 7.
Apparatus for producing vaporous ozonides. L. S. Chadwick. 2,529,137, Nov. 7.
Apparatus for profiling operations. T. A. Kestell. 2,529,036, Nov. 7.
Apparatus for rejecting improperly filled soap containers. H. R. Hughes and C. D. Rice. 2,529,081, Nov. 7.
Apparatus for releasing oil from and for removing the surfaces from citrus fruits and the like. C. E. Fraser. 2,529,286, Nov. 7.

Apparatus for sealing tubular glass articles. W. A. Shields. 2,529,109, Nov. 7.
Apparatus for testing centrifugally actuated elements. L. T. Meister. 2,528,534, Nov. 7.
Apparatus for texturing asbestos-cement sheets. W. L. Nelson. 2,529,175, Nov. 7.
Apparatus for the conversion of energy in a flowing stream of fluids. W. Squires, Jr. 2,529,317, Nov. 7.
Apparatus for the treatment of intermittent claudication. H. I. Poor. 2,528,843, Nov. 7.
Apparatus for transporting cylindrical containers and the like. H. A. Reinhart and A. M. Selvey. 2,528,783, Nov. 7.
Apparatus for use in association with two picture projector machines. C. J. Cadwell and F. M. Adamson. 2,528,855, Nov. 7.
Apparatus for wire coding. G. M. Rosenblum. 2,529,227, Nov. 7.
Appliance, Electromagnetic. P. Fehr. 2,528,744, Nov. 7.
Appliance for correcting examination papers. A. L. Henry. 2,528,828, Nov. 7.
Applicator for rouge and the like. R. E. Kruck. 2,529,399, Nov. 7.
Applicator having a powder-receiving spout and a recessed outlet accommodating a toothbrush, Powder. V. D. Eley. 2,529,004, Nov. 7.
Applicator, Paint. E. T. Hobe, Sr. 2,528,657, Nov. 7.
Arrangement for the control of a variable-speed mechanism. F. P. J. H. Dumont. 2,529,379, Nov. 7.
Article refrigeration. H. K. Johnson. 2,529,470, Nov. 7.
Artjopat designing board. B. C. Petersen. 2,529,413, Nov. 7.
Atomizer. W. A. Cotter. 2,528,641, Nov. 7.
Atomizer, Pocket. A. Arbetman. 2,529,239, Nov. 7.
Attachment for suspending clothing in automobile bodies. C. Seidler. 2,528,794, Nov. 7.
Attenuator, Metal film. E. Weber and J. W. E. Griemsmann. 2,529,436, Nov. 7.
Automatic shutoff valve. E. A. Dunn. 2,528,822, Nov. 7.
Automatic volume control circuit. C. E. Hendricks. 2,528,885, Nov. 7.
Automaton. I. Nelson and L. W. Wallace. 2,528,968, Nov. 7.
Axle, Double planetary drive. W. E. Double. 2,529,330, Nov. 7.
Azeotropic distillation of ethyl alcohol from methyl ethyl ketone. G. R. Lake and J. M. Stribley. 2,528,761, Nov. 7.
Bacon, Preparing and packaging. O. C. Johnson. 2,528,832, Nov. 7.
Balance weight. L. Olbrys. 2,529,099, Nov. 7.
Ball and roller bearing. C. A. Ablett. 2,528,987, Nov. 7.
Bar for harvesters, Cutter. N. R. Krause. 2,528,659, Nov. 7.
Barn door latch. H. L. Foss. 2,529,009, Nov. 7.
Basket weave chain. L. A. Williams. 2,528,567, Nov. 7.
Bath tub appliance, Convertible. R. Graves. 2,528,825, Nov. 7.
Battery depolarizer and making the same, Primary. H. E. Lawson. 2,528,891, Nov. 7.
Beacon system, Radio. G. Peterson and M. Ercolino. 2,528,543, Nov. 7.
Beam suspension, Brake. W. H. Sale. 2,529,352, Nov. 7.
Bearing: *See*—
Ball and roller bearing.
Bed rest, Folding. R. M. Poss. 2,529,350, Nov. 7.
Belt cleaner. J. P. De Witt and J. O. Butler. 2,529,003, Nov. 7.
Belt conveyer drive, Endless. G. R. Dale. 2,528,865, Nov. 7.
Belt-elevator overload throwout clutch. R. Fuchs. 2,529,011, Nov. 7.
Belt, Sportsman's shell. J. A. Garver. 2,528,648, Nov. 7.
Benzophenone, Production of. A. N. Sachanen and P. D. Caesar. 2,528,780, Nov. 7.
Binder device, Loose-leaf. J. C. Dawson, Jr. 2,528,866, Nov. 7.
Binding wire clip. J. K. Newell, Jr. 2,529,176, Nov. 7.
Blade, Self-aligning lawn-mower. F. P. Voytershark and D. L. Churchill. 2,528,625, Nov. 7.
Block: *See*—
High-frequency inductor block.
Blocking pattern, Hair. J. C. Fred. 2,529,149, Nov. 7.
Blood filter and drip meter. W. F. Butler and F. A. Cutter. 2,528,737, Nov. 7.
Blood, Method for testing. P. M. Neuda. 2,528,704, Nov. 7.
Blowpipe apparatus. L. W. Young. 2,528,809, Nov. 7.
Blowtorch, Gas. W. F. Knipe. 2,529,164, Nov. 7.

Blower. G. W. Allen. 2,529,362, Nov. 7.
Blower for frost prevention. W. L. Irvine and B. R. Daves. 2,529,339, Nov. 7.
Board: *See*—
Artjopat designing board.
Body construction for toy vehicles, Removable. C. T. Borchers. 2,528,852, Nov. 7.
Body forming apparatus, Tubular. M. T. Hoffman and J. T. O'Connor. 2,529,217, Nov. 7.
Boiler: *See*—
Steam boiler.
Boiler water drum mounting. G. O. French. 2,529,078, Nov. 7.
Bolt mechanism for machine guns. E. C. Hedges. 2,529,391, Nov. 7.
Bombsight. P. M. S. Blackett and H. J. J. Braddick. 2,529,324, Nov. 7.
Book end. T. K. Lewis. 2,529,031, Nov. 7.
Boom, Foldable. J. A. Marcantonio. 2,529,454, Nov. 7.
Boom stop, Safety. E. F. Rueter. 2,529,193, Nov. 7.
Boron-titanium steels, Production of thermally hardenable. M. J. Day. 2,528,867, Nov. 7.
Bottle cooler. H. W. Whitmore. 2,529,439, Nov. 7.
Bowling ball, Tip-delivering. C. D. Jones. 2,529,024, Nov. 7.
Box: *See*—
Junction box.
Box and crate, Shipping. A. R. Ross. 2,528,551, Nov. 7.
Brake: *See*—
Hand brake. Heavy-duty coaster brake.
Brake beam support. W. H. Sale. 2,529,353, Nov. 7.
Brassière. E. G. Borowick. 2,529,276, Nov. 7.
Brush, Fountain. R. H. Loether. 2,528,599, Nov. 7.
Buckle, One-piece tongueless. B. F. Pease, Jr. 2,529,048, Nov. 7.
Bulldozer attachment. T. Andersen. 2,529,208, Nov. 7.
Burner device, Fuel. B. E. Mustee. 2,529,307, Nov. 7.
Burner having preheating and superheating mechanism for air and steam employed in the burner, Fluid fuel. G. M. Wilhelm. 2,528,984, Nov. 7.
Butadienestyrene copolymers, Acylating. W. H. Smyers and E. P. Cashman. 2,529,316, Nov. 7.
Butanediol and butanone, Manufacture of. P. Vergnaud. 2,529,061, Nov. 7.
Butter by cooling rich cream, and product thereof, Producing aromatized. A. L. Stigen. 2,529,232, Nov. 7.
Cab, Motor powered vehicle. E. Rossner. 2,529,192, Nov. 7.
Cabinet: *See*—
Refrigerator cabinet.
Cable clamp. M. Hain. 2,529,153, Nov. 7.
Cake mold. A. E. Schroeder. 2,529,354, Nov. 7.
Calendar. J. Baumgarth. 2,529,367, Nov. 7.
Calling system, Automatic operation and selective. P. E. Volz. 2,528,624, Nov. 7.
Cam mechanism for circular knitting machines and method of operating a circular knitting machine, Sinker. F. R. Page. 2,529,181, Nov. 7.
Camera having coupled drive and masking means for taking different size exposures, Motion-picture. R. F. Mitchell. 2,528,840, Nov. 7.
Cap: *See*—
Push on closure cap.
Carbide article and making, Boron. G. R. Finlay. 2,529,333, Nov. 7.
Carburetor. H. S. Brown, W. E. Armstrong, and J. V. Reichenbach. 2,529,242, Nov. 7.
Carburetor, Aircraft. A. W. Orr, Jr. 2,529,100, Nov. 7.
Carburetor, Pressure. A. W. Orr, Jr. 2,529,101, Nov. 7.
Carpets, Laying. T. B. Van Belle. 2,529,463, Nov. 7.
Carriage, Adjustable domestic tool. W. W. Dick. 2,528,872, Nov. 7.
Carrier and loader, All purpose vehicle. J. L. Sullivan. 2,528,672, Nov. 7.
Carton. J. W. Cox. 2,529,140, Nov. 7.
Carton. W. P. Frankenstein. 2,529,147, Nov. 7.
Carton and making it. R. M. Bergstein. 2,529,128, Nov. 7.
Case: *See*—
Cigarette case. Cosmetic case.
Combined spectacle and utility case. Refrigerated self-service display case.
Case and lighter, Combined cigarette. A. F. Fukal. 2,529,150, Nov. 7.
Case construction, Instrument. B. H. Bristol. 2,528,735, Nov. 7.
Casing for fluid heaters, Sectional. B. E. Mustee. 2,528,771, Nov. 7.
Casing structure of portable autographic registers. C. J. Manuel. 2,529,302, Nov. 7.
Cellaret having combined musical device and rotatable rack. J. L. Bazelon. 2,529,368, Nov. 7.
Centrifugal switch. C. E. Sprague. 2,528,845, Nov. 7.
Chain: *See*—
Basket weave chain. Expansible basket-weave chain.
Conveyer chain.
Chain guard. D. M. King. 2,529,084, Nov. 7.
Chair: *See*—
Folding chair. Retracting type theater chair.
Reclining chair.
Chair with leg rest, Recliner. A. B. Bell. 2,528,995, Nov. 7.
Charcoal and its manufacture, Impregnated protective. S. Hormats. 2,528,517, Nov. 7.

Charging system, Storage battery. F. R. Arnold. 2,529,123, Nov. 7.
Check protector. R. I. Heller. 2,529,021–2, Nov. 7.
Checking and counting means for parking areas, Auto. L. G. Scherer. 2,528,790, Nov. 7.
Chemical feeder. E. W. Landon. 2,529,028, Nov. 7.
Chopper and beet topping device, Cotton. T. H. Mayfield. 2,528,897, Nov. 7.
Chuck. A. G. Ellis and M. W. Abberley. 2,529,331, Nov. 7.
Chuck, Collet. W. F. Hunsdorf. 2,529,218, Nov. 7.
Chuck, Pipe. J. A. Dorman. 2,528,873, Nov. 7.
Chute, Cattle. O. Niece. 2,528,664, Nov. 7.
Cigarette case. E. T. Eggebrecht. 2,528,743, Nov. 7.
Cinnamaldehyde, Preparation of. H. H. Richmond. 2,529,186, Nov. 7.
Circuit: *See*—
Automatic volume control circuit. Electrical control circuit. Voltage regulator circuit.
Circuit breaker. S. J. Stone. 2,529,195, Nov. 7.
Circuit breaker, Pneumatic. B. M. H. P. Fernier. 2,529,145, Nov. 7.
Circuit for radio receivers, Antenna input. L. S. Tisdale, Sr. 2,529,202, Nov. 7.
Circuit for servo systems, Energizing. M. L. Greenough. 2,528,512, Nov. 7.
Circuit maker and breaker. F. A. Talbot. 2,528,922, Nov. 7.
Circuit standardizing actuating mechanism. J. H. Moore. 2,528,967, Nov. 7.
Circuits, Pulse discriminating. R. E. Moe. 2,529,172, Nov. 7.
Circulating electric heater. A. Oberholtz and G. J. Moeller. 2,528,774, Nov. 7.
Clamp: *See*—
Cable clamp.
Clarifier. R. G. Paulette and W. H. Green. 2,528,907, Nov. 7.
Clarifying apparatus. W. H. Green. 2,528,879, Nov. 7.
Clasp. A. A. Johnson and H. G. Lehmann. 2,529,453, Nov. 7.
Clasp and article holder, Tie. M. Lavanish. 2,528,527, Nov. 7.
Cleaner: *See*—
Belt cleaner. Windshield cleaner.
Cleaning machine, Vacuum. R. G. Leonard. 2,528,763, Nov. 7.
Cleaning pad. H. Magit. 2,528,602, Nov. 7.
Clip: *See*—
Binding wire clip. Film clip.
Closure caps to containers, Machine and method for hermetically sealing. H. E. Stover. 2,529,199, Nov. 7.
Closure for collapsible tubes, Dispensing. H. W. Beach. 2,528,993, Nov. 7.
Cloth and preparing same, Filter. O. H. Van Norden. 2,528,847, Nov. 7.
Cloth-cutting machine. M. Zawistowski. 2,529,441, Nov. 7.
Clothesline support. J. L. Brenner. 2,528,483, Nov. 7.
Clutch: *See*—
Belt-elevator overload throwout clutch.
Clutch and brake mechanism, Fluid actuated. J. N. Weiland. 2,529,121, Nov. 7.
Clutch and drive mechanism for ironing machines. W. C. Erler. 2,529,247, Nov. 7.
Coatings on metal surfaces, Preparing stable vinyl. E. C. Pfeffer, Jr. 2,529,414, Nov. 7.
Cobalt oxo catalyst, Reactivation of. M. 't Hart, H. Hoog, and K. A. Weeda. 2,529,236, Nov. 7.
Cold-working lubricant and lubricating metal surfaces therewith. A. G. Rocchini and R. J. Neely. 2,529,191, Nov. 7.
Collapsible container. M. Sloane. 2,529,267, Nov. 7.
Combination lock. R. S. and I. D. Wallach. 2,529,119, Nov. 7.
Combined hook and snap fastener. A. S. and J. A. Burk. 2,528,854, Nov. 7.
Combined spectacle and utility case. C. F. Cameron. 2,529,000, Nov. 7.
Compacting material, Method of and apparatus for. A. B. Mays. 2,529,404, Nov. 7.
Composition comprising polymerized acrylonitrile and solvent therefor. G. E. Ham. 2,529,449, Nov. 7.
Composition containing a fluidized glycidyl ether and an amphoteric oxide, Adhesive. Q. T. Wiles. 2,528,934, Nov. 7.
Composition containing glycidyl ethers and alumina, Adhesive. Q. T. Wiles. 2,528,933, Nov. 7.
Composition for imparting rust-inhibiting finish to iron articles. A. W. Machlet. 2,529,344, Nov. 7.
Composition for yarns, Sizing. C. C. Abramson. 2,528,570, Nov. 7.
Composition pieces, Artificially producing carbonaceous. P. Müller. 2,529,041, Nov. 7.
Compositions containing glycidyl ethers. Q. T. Wiles and H. A. Newey. 2,528,932, Nov. 7.
Computer, True air-speed. F. J. Huber. 2,528,518, Nov. 7.
Computing machine. M. Garbell. 2,528,647, Nov. 7.
Concrete mixer. E. Keel. 2,529,256, Nov. 7.
Concrete piles, Forming. T. C. Bruns. 2,528,999, Nov. 7.
Concrete products, Process and apparatus for molding porous. C. C. Dubbs. 2,528,643, Nov. 7.

Condensation products from unsaturated aldehydes, Production of dimeric. R. H. Hall and K. H. W. Tuerck. 2,528,592, Nov. 7.

Condenser: *See*—
Laminated electric condenser.

Condenser having a laminated dielectric thickened at its marginal portions. A. Liechti. 2,528,596, Nov. 7.

Cone holder. R. B. Putnam. 2,529,351, Nov. 7.

Connecting member, Adaptable threaded. W. T. Gindlesperger. 2,528,824, Nov. 7.

Construction for mattresses, cushions, and the like, Innerspring. M. E. Tauss. 2,529,268, Nov. 7.

Construction of containers. R. B. Meller. 2,528,900, Nov. 7.

Contactor. R. S. Hart. 2,529,080, Nov. 7.

Container: *See*—
Collapsible container. Refrigerated shipping container.
Lipstick container.
Powdered soap container.

Container. F. E. Chesney. 2,529,138, Nov. 7.

Container. R. W. McDermott. 2,528,803, Nov. 7.

Container closure with transparent window, Plug-type. P. V. Di Cosmo. 2,528,948, Nov. 7.

Container for acetylene, Dispensing. M. H. Heeren. 2,528,692, Nov. 7.

Container for carbon paper and similar sheet material. F. H. Gibson. 2,529,288, Nov. 7.

Container means and mixing preselected colored paints, Paint. I. Machleder. 2,528,530, Nov. 7.

Contamination from an atmosphere controlled furnace, Method of and means for removing. W. C. Hasselhorn. 2,529,155, Nov. 7.

Control apparatus. G. P. Frick. 2,528,589, Nov. 7.

Control apparatus. H. S. Phelan. 2,529,415, Nov. 7.

Control apparatus. W. H. Wannamaker, Jr., and J. C. Mouzon. 2,528,626, Nov. 7.

Control apparatus, Automatic transmission. J. A. Blair. 2,529,129, Nov. 7.

Control apparatus for engine cooling systems, Pressure. R. W. Scoville. 2,528,791, Nov. 7.

Control apparatus for gaseous fuel burners, Thermostatic safety. W. E. McCorquodale. 2,529,259, Nov. 7.

Control apparatus for vent condensers, Temperature. J. F. Sebald. 2,528,613, Nov. 7.

Control arrangement for a high-frequency heating device. H. F. Storm. 2,528,798, Nov. 7.

Control by refractive index, Distillation. J. W. Latchum, Jr. 2,529,030, Nov. 7.

Control device, Altitude responsive. J. H. Broadbent. 2,528,775, Nov. 7.

Control device, Combined remote and proximal. E. J. Panish. 2,529,182, Nov. 7.

Control device for cable control mechanisms. G. Bodinaux and A. Malchair. 2,529,447, Nov. 7.

Control for automatic transmissions, Oil pressure. E. J. Farkas and J. W. Rackle. 2,528,585, Nov. 7.

Control for carburetor throttle valves, Automatic. H. S. Brown, W. E. Armstrong, and J. V. Reichenbach. 2,529,243, Nov. 7.

Control for internal-combustion engines, Governor. G. S. Weinberger. 2,529,437, Nov. 7.

Control for label-applying machines, Picker. S. T. Carter. 2,528,944, Nov. 7.

Control for motor vehicles, Hand. J. A. N. Dubreuil. 2,529,076, Nov. 7.

Control for welding machine. A. W. Steinberger. 2,529,111, Nov. 7.

Control manifold, Refrigerant. S. A. Shapiro. 2,528,557, Nov. 7.

Control means for auxiliary transmissions, Fluid. F. M. Hogue. 2,529,393, Nov. 7.

Control mechanism. E. P. Bullard, III. 2,528,736, Nov. 7.

Control mechanism for fire doors. J. P. De Laney. 2,528,869, Nov. 7.

Control mechanism, Gear shift. A. F. Bennett, G. B. Hirsch, and W. A. Gigger. 2,529,067, Nov. 7.

Control mechanism, Pressure actuated. E. E. Harper. 2,529,252, Nov. 7.

Control system. R. J. Kochenburger. 2,529,085, Nov. 7.

Control system, Accelerating and braking. D. E. Findley. 2,528,504, Nov. 7.

Control system and apparatus, Circuit breaker. A. C. Kelle. 2,528,694, Nov. 7.

Control system, Automatic gain. S. C. Spielman. 2,529,428, Nov. 7.

Control system, Automatic throttle. G. A. Fisher. 2,528,745, Nov. 7.

Control system, Chuck magnetizing and demagnetizing. H. F. Storm. 2,529,198, Nov. 7.

Control system, Electric follow-up. C. Dannatt and F. H. Belsey. 2,528,486, Nov. 7.

Control system, Frequency. F. B. Woodworth and F. A. Lindley, Jr. 2,528,632, Nov. 7.

Control system, Motor. J. O. Thorsheim. 2,529,116, Nov. 7.

Control system, Register. L. U. C. Kelling and L. H. Sheets. 2,529,161, Nov. 7.

Control system, Thyratron. P. H. Chin and B. A. Knauth. 2,528,688, Nov. 7.

Control unit for motors with belt drives. P. F. Craton. 2,528,591, Nov. 7.

Controller. C. B. Ives. 2,529,254, Nov. 7.

Conveyer chain. J. K. Marshall and C. Nygren. 2,529,168, Nov. 7.

Conveyer for grain and other materials, Portable. A. G. Slocum. 2,528,917, Nov. 7.

Conveyer gate. F. S. Dederich. 2,528,868, Nov. 7.

Conveyer, Spiral blade. L. O. Ballard and A. Brandt. 2,528,679, Nov. 7.

Cooler: *See*—
Bottle cooler.

Copolymerization of unsaturated alkyd resin in the presence of aromatic sulfonic acid promoter. R. R. Harris. 2,529,214, Nov. 7.

Copyholder. F. C. Atwood. 2,528,990, Nov. 7.

Core extractor. C. Lamb. 2,529,027, Nov. 7.

Corrosion and tuberculation inhibition in water systems. W. L. Nieland, J. J. Maguire, C. B. George, and H. L. Kahler. 2,529,177, Nov. 7.

Corrosion and tuberculation inhibition in water systems, Obtaining. W. L. Nieland, J. J. Maguire, C. B. George, and H. L. Kahler. 2,529,178, Nov. 7.

Cosmetic case. T. and H. Schildkraut. 2,528,612, Nov. 7.

Coupling: *See*—
Pipe coupling.

Coupling and clutch, Fluid impact. R. Lapsley. 2,529,400, Nov. 7.

Coupling apparatus for wireless antennas. D. A. Bell. 2,529,370, Nov. 7.

Cover and hinge, Container. J. Fleck. 2,529,248, Nov. 7.

Cover construction, Seat cushion. C. J. Engstrom. 2,528,950, Nov. 7.

Cover for separator frames. H. O. Lindgren. 2,529,221, Nov. 7.

Crane for motor vehicles, Hydraulic. J. E. Forslund. 2,528,588, Nov. 7.

Crane, Hydraulically actuated swing boom. H. Wunsch. 2,528,985, Nov. 7.

Crib, Collapsible baby. E. E. Hills. 2,528,749, Nov. 7.

Crossing gate. E. A. Brass. 2,528,733, Nov. 7.

Crucible holder. R. Meyrowitz. 2,528,536, Nov. 7.

Crucifix and case, Portable. A. Robinson. 2,528,913, Nov. 7.

Crutch, Extensible. G. E. Osborn. 2,528,706, Nov. 7.

Cultivator, Rotary. H. Brown. 2,528,576, Nov. 7.

Cup, Safety drinking. A. Tellier. 2,529,114, Nov. 7.

Curler, Hair. M. E. Beguhn. 2,528,994, Nov. 7.

Curtain, Washable, ruffled window. H. F. Gundlach. 2,528,652, Nov. 7.

Cutoff machine. E. F. Pinney. 2,528,779, Nov. 7.

Cutoff system for battery chargers, Maximum temperature. L. A. Mediar and J. B. Godshalk. 2,529,038, Nov. 7.

Cutter with rotary cutting reels, Cotton stalk. C. R. Slater. 2,529,358, Nov. 7.

Cutting apparatus for wallboards and the like. J. F. Butler. 2,529,210, Nov. 7.

Cyclic combustion gas generator. H. Bohuslav. 2,529,325, Nov. 7.

DDT, Blending. H. A. Weldon. 2,529,466, Nov. 7.

Damper for hearing aids. W. A. Schwalm. 2,529,228, Nov. 7.

Deicing system for aircraft propellers. E. P. Palmatier. 2,529,102, Nov. 7.

Deicing system, Spinner. E. P. Palmatier. 2,529,103, Nov. 7.

Delivery device, Train order. R. A. Mott. 2,529,096, Nov. 7.

Demonstrating device, Optical. A. Shapiro. 2,529,107, Nov. 7.

Demother, Suction cleaner. J. P. Hunter and A. P. Cawl. 2,529,158, Nov. 7.

Dental apparatus. H. Spiro. 2,529,429, Nov. 7.

Denture, Artificial. G. A. Wiechert. 2,528,629, Nov. 7.

Desulfurization and cracking of sulfur-containing petroleum, Catalytic. J. E. Ford, Jr. 2,528,586, Nov. 7.

Detecting system producing a visible likeness of the object, Object. R. H. Rines. 2,528,729, Nov. 7.

Detection of washouts in rotary drilling strings. J. T. Hayward. 2,528,956, Nov. 7.

Detection system, Directional sound. R. H. Ranger. 2,528,546, Nov. 7.

Detector, Fishing line tension. F. L. Vibber. 2,529,320, Nov. 7.

Device for binding the edges of lantern slide assemblies or similar articles. D. H. Johnson. 2,528,754, Nov. 7.

Device for controlling air condition. R. D. Touton. 2,528,982, Nov. 7.

Device for doors, Closing. S. G. Norballe. 2,528,904, Nov. 7.

Device for holding objects. G. F. Felton. 2,529,285, Nov. 7.

Device for indexing contact springs in contact-welding apparatus. M. Rose and J. J. Zak. 2,529,265, Nov. 7.

Device for predetermining fitting lengths of ornament strings. P. Tell and A. Lehrhoff. 2,529,058, Nov. 7.

Device on automotive vehicles for preventing the inadvertent backward motion of the vehicle. W. Husy. 2,528,957, Nov. 7.

Dial for photoelectric light meters, Indicating. R. D. Hickok. 2,529,337, Nov. 7.

Dialing tool. A. P. and G. A. Lynn. 2,528,661, Nov. 7.

Diaphragm, Normally expansible anatomical. R. J. Ballard and J. A. Jackson. 2,529,363, Nov. 7.

Diazotype composition containing N-hydroxyethyl-m-toluidine-p-diazos. W. H. von Glahn and L. N. Stanley. 2,529,464, Nov. 7.

Diazotypes containing diazo-sulfonates. R. Lantz and M. Moinard. 2,529,029, Nov. 7.

Dichlorostyrene as accelerator in the polymerization of butadiene-1,3 with styrene. M. C. Taylor. 2,529,201, Nov. 7.

Differential for skid steering of vehicles, Brake controlled. R. I. Strickland and H. A. Knox. 2,528,559, Nov. 7.

Diffuser, Insecticide. R. A. Cooper. 2,529,245, Nov. 7.

Digger, Peanut. H. E. Flynt. 2,528,689, Nov. 7.

Digging and separating machine, Potato. W. V. Helms. 2,529,023, Nov. 7.

Direction finding system. A. G. Richardson and F. O. Chesus. 2,528,549, Nov. 7.

Discharge means for coke ovens. G. Padgett. 2,529,046, Nov. 7.

Disintegrator, Leaf. A. Bjorklund. 2,528,942, Nov. 7.

Disk and vaned rotary hoe. E. F. Pitre. 2,529,417, Nov. 7.

Disk, Sound record. T. F. Saffady. 2,528,610, Nov. 7.

Dispenser: *See*—
Liquid soap dispenser. Pad dispenser.
Medicament dispenser. Tape dispenser.

Dispenser for salt or the like. E. Lappé, Jr. 2,529,472, Nov. 7.

Dispenser having a cutoff valve actuated by a tooth bush, Tooth paste. J. M. Miller. 2,528,662, Nov. 7.

Dispensing device. T. H. Carpenter. 2,528,945, Nov. 7.

Display form, Inflatable. E. Barbera. 2,529,125, Nov. 7.

Distributor, Aerial seed. L. S. Adams. 2,528,986, Nov. 7.

Doctor mechanism for rotary intaglio printing presses. J. E. Meyer. 2,528,965, Nov. 7.

Doll eye mechanism. W. H. Barrows. 2,529,240, Nov. 7.

Door assembly, Refrigerator. J. W. Norrish. 2,528,705, Nov. 7.

Door key fastener. G. Kindler. 2,528,757, Nov. 7.

Door latch. G. E. Curtiss, Jr. 2,528,864, Nov. 7.

Door latch. O. D. Harbert. 2,528,954, Nov. 7.

Dowel making machine. W. P. Hanchartk. 2,529,018, Nov. 7.

Drawbar, Vehicle. B. G. Rich. 2,528,784, Nov. 7.

Drill: *See*—
Lateral drill.

Drilling device, Rat hole. J. W. Hickerson, Sr. 2,528,593, Nov. 7.

Drive for nutator. C. T. G. Looney. 2,528,963, Nov. 7.

Drive, Two-speed turntable. M. E. Hardy. 2,529,019, Nov. 7.

Drive unit, Motor. S. S. Brown. 2,528,686, Nov. 7.

Driving machine, Golf. H. R. Smith. 2,528,616, Nov. 7.

Driving system, Reel. R. H. Colomy and C. J. Boenisch. 2,528,580, Nov. 7.

Dust-precipitating means with separable plate-assembly units. G. W. Penney. 2,528,842, Nov. 7.

Earphone. C. M. R. Balbi. 2,528,811, Nov. 7.

Earth mover. E. W. Austin. 2,529,124, Nov. 7.

Earth moving equipment. L. L. Hyler. 2,529,159, Nov. 7.

Egg washer. R. W. Lesher. 2,529,090, Nov. 7.

Electric heater. O. L. Dilworth. 2,528,503, Nov. 7.

Electric switch. S. I. Lindell. 2,529,032, Nov. 7.

Electric system. R. H. Rines. 2,528,726, Nov. 7.

Electric tilting furnace. L. L. Babcock and J. D. Spalding. 2,528,571, Nov. 7.

Electrical control circuit. P. Glass. 2,529,290, Nov. 7.

Electron discharge device. W. S. Pajes and R. E. Downing. 2,528,541, Nov. 7.

Electron discharge device, High-power. J. W. West. 2,528,849, Nov. 7.

Elements of a flywheel magneto, Arrangement of stator-plate-mounted. A. L. Brownlee and T. G. Louis. 2,528,687, Nov. 7.

Elevating and supporting apparatus. A. B. Greenfield. 2,529,292, Nov. 7.

Emulsions. H. J. Schneiderwirth. 2,529,461, Nov. 7.

Emulsions containing resins. H. J. Schneiderwirth. 2,529,460, Nov. 7.

End assembly, Rear door. T. C. and W. R. Brown. 2,528,818, Nov. 7.

Engine: *See*—
Rotary valve internal-combustion engine.
Ventilated underwater internal-combustion engine.

Equipment having an adjustable advance ball, Recording. R. O. Hanson and W. F. Saars. 2,528,826, Nov. 7.

Eraser. H. H. and S. O. Raymond. 2,528,709, Nov. 7.

Ester compositions, Polymeric acrylate. C. L. Shapiro. 2,529,108, Nov. 7.

Ethylbenzene conversion. A. P. Lien and D. A. McCaulay. 2,528,893, Nov. 7.

Exerciser, Abdominal muscle. M. R. Hull. 2,528,750, Nov. 7.

Exercising device. S. R. Mohler and S. E. Ross, Jr. 2,529,347, Nov. 7.

Expansible basket-weave chain: L. A. Williams. 2,528,568, Nov. 7.

Exposure meter. A. T. Williams and P. Huber. 2,528,716, Nov. 7.

Extraction of insulin. R. L. Grant. 2,529,152, Nov. 7.

Extractor: *See*—
Core extractor.

Facilitating the focusing of certain devices comprising a projection system, such as microphotometers. E. Vassy. 2,528,923, Nov. 7.

Fan for windows, Ventilating. H. Morrison. 2,529,040, Nov. 7.

Fastener: *See*—
Combined hook and snap Door key fastener.
fastener.

Fastener for stems or the like. H. W. Kost. 2,529,219, Nov. 7.

Fastener for stepping switches, Wiper cord. B. H. Shoopman. 2,529,426, Nov. 7.

Fastening device. G. A. Tinnerman. 2,528,675, Nov. 7.

Fastening means for the stator plates of flywheel magnetos. G. F. McGrevy. 2,528,700, Nov. 7.

Feature for swivel lipstick containers, Safety. D. A. Seaver. 2,529,266, Nov. 7.

Feed mechanism, Weft wire. N. S. Harter. 2,528,881, Nov. 7.

Feeder: *See*—
Chemical feeder. Pet feeder.

Feeding apparatus, Volumetric gas. E. E. Harper. 2,529,251, Nov. 7.

Feeding device, Material. P. L. Betz. 2,529,445, Nov. 7.

Feeding device, Rivet. T. R. Knowles. 2,529,165, Nov. 7.

Feeding machine, Can. J. M. Hemovich. 2,528,884, Nov. 7.

Felt, Cotton, and making the same. H. A. Secrist. 2,528,793, Nov. 7.

Fender, Tractor. J. M. Bowman and P. D. Bradfield. 2,528,683, Nov. 7.

Filing device. J. Chenouard. 2,528,485, Nov. 7.

Filter: *See*—
Leakproof oil filter.

Filler, Ditch. A. L. Meyer. 2,529,039, Nov. 7.

Filling machine, Bottle. J. E. Dunn. 2,528,644, Nov. 7.

Film clip. E. E. Schenkel. 2,528,668, Nov. 7.

Filter, Air. C. A. Norgren and K. C. Mosier. 2,528,539, Nov. 7.

Fire escape, Window mounted collapsible. C. G. Steele. 2,529,112, Nov. 7.

Fire extinguishing composition and method. W. F. Busse, J. M. Lambert, and P. P. Debye. 2,529,211, Nov. 7.

Fire extinguishing system. W. A. Beach. 2,529,127, Nov. 7.

Fishing lure. A. C. Clasen, H. J. Millgard, and T. A. Phelps. 2,528,861, Nov. 7.

Fitting, Sink waste. C. R. Stone and E. A. Fredrickson. 2,528,919, Nov. 7.

Fixture for testing cylinders. C. L. Testut and A. Zanetti. 2,528,563, Nov. 7.

Fixture unit, Display. P. V. Martino. 2,528,838, Nov. 7.

Flare, Flasher type electric. V. S. Berry. 2,528,490, Nov. 7.

Flared jamb furnace door frame. J. Yoxall. 2,529,272, Nov. 7.

Flashlight, Vest pocket. A. Mitchell. 2,528,701, Nov. 7.

Float for rods and reels, Casting. G. E. Oberholtzer. 2,529,179, Nov. 7.

Floor lamp guide light. J. Samson. 2,528,555, Nov. 7.

Fluidizing process and mechanism. W. G. Bauer. 2,529,366, Nov. 7.

Folding chair. H. J. Walters. 2,528,676, Nov. 7.

Footwear with a removable sole. W. Epsztejn. 2,528,951, Nov. 7.

Fork, Culinary. E. Hrabal. 2,528,658, Nov. 7.

Fork, Tuning. A. N. Stanton. 2,529,430, Nov. 7.

Foundation garment. S. W. Thalman. 2,529,115, Nov. 7.

Foundation pile. J. W. Levasseur. 2,529,220, Nov. 7.

Frame: *See*—
Flared jamb furnace door Pocket handkerchief holding frame.
frame.

Frame members, Making one-piece angular. J. M. Leake. 2,529,088, Nov. 7.

Freezing of foods, Accelerating the. G. Hammond and R. E. Jacke. 2,529,388, Nov. 7.

Friction member. C. E. Tack. 2,529,235, Nov. 7.

Frying apparatus, Deep fat. P. M. Pappas. 2,528,776, Nov. 7.

Fuel and similar hydrocarbon fractions, Desulfurizing Diesel. J. E. Ford, Jr. 2,528,587, Nov. 7.

Fuel in internal-combustion engines, Saving. A. Weiss. 2,528,983, Nov. 7.

Fuel pump. C. W. Van Ranst and W. D. Smith. 2,529,204, Nov. 7.

Fuel tank. R. H. Davies. 2,528,499, Nov. 7.

Fuel tank lock. J. T. Abbas. 2,529,361, Nov. 7.

Fuels, Motor. W. A. Partridge and H. J. Alty. 2,528,605, Nov. 7.

Furnace: *See*—
Electric tilting furnace. Hot-air furnace.

Furnace. L. J. Weber. 2,528,584, Nov. 7.

Furnace combustion chamber closure with fluid jet gas escape prevention means. E. H. Selnick. 2,528,671, Nov. 7.

Furnace tilting and adjusting mechanism, Arc. E. Thys. 2,529,319, Nov. 7.

Fuse, Mechanical time. J. Fink and L. Hebbeln. 2,528,823, Nov. 7.

Fused electric plug. R. Philips. 2,528,971, Nov. 7.

Game board for spherical play pieces, Grooved. R. H. Seaman. 2,528,792, Nov. 7.

Game device, Magnetic. C. R. Wolf. 2,528,938, Nov. 7.

Garment, Child's sleeping. R. W. Wilson. 2,528,677, Nov. 7.
Garment construction. B. Klein and C. Miller. 2,528,834, Nov. 7.
Garment hanger. J. H. Hammond, Jr. 2,529,294, Nov. 7.
Gas shielded induction fusion welding process. B. R. King. 2,528,755, Nov. 7.
Gaseous-discharge device. P. W. Stutsman. 2,529,233, Nov. 7.
Gasket for repairing weld and pit leaks on pipes. W. L. Northrup. 2,529,411, Nov. 7.
Gate: *See*—
Conveyer gate. Vehicle actuated gate.
Crossing gate.
Gate. J. D. Flory. 2,529,008, Nov. 7.
Gauge: *See*—
Pneumatic micrometry plug gauge.
Gearing for lawn mowers, Forward and reverse. P. L. Loewe and E. L. Boyce. 2,529,035, Nov. 7.
Generator: *See*—
Cyclic combustion gas gen- High-frequency generator.
erator.
Generator for internal-combustion power units, Power gas. F. R. Bell, C. A. Judson, and L. Haworth. 2,528,635, Nov. 7.
Glands, Extraction of adrenal. W. J. Haines and R. H. Johnson. 2,528,880, Nov. 7.
Glass, Ophthalmic. W. H. Armistead. 2,528,634, Nov. 7.
Governor, Centrifugal, particularly for varying the timing of ignition. T. G. Louis. 2,528,698, Nov. 7.
Grater with feed screw reinforcing member, Hollow drum. J. E. Rustici. 2,529,473, Nov. 7.
Gualac treatment, Gum. H. C. Black. 2,529,446, Nov. 7.
Guard: *See*—
Chain guard. Mower guard.
Guide for the blind, Writing. M. M. Erickson. 2,529,005, Nov. 7.
Gun, Repeating air. E. E. Carter. 2,528,495, Nov. 7.
Gun sight, Illuminated. G. J. Teffault. 2,529,057, Nov. 7.
Gun, Toy repeating elastic band. R. Paul. 2,529,047, Nov. 7.
Gyroscope compensated for turn errors, Vertical. J. S. Adkins. 2,528,487, Nov. 7.
Hair curler. D. B. Ross. 2,529,311, Nov. 7.
Hairpin. M. M. Newman. 2,529,224, Nov. 7.
Halogenhydroxyarylaliphatic acids. D. Papa and E. Schwenk. 2,528,542, Nov. 7.
Hand brake. K. Williams. 2,529,064, Nov. 7.
Handrail attachment for beds. W. L. Moyer and J. C. Deck. 2,529,173, Nov. 7.
Handle comprising two complementary and interlocked hollow sections individually covered, Luggage. E. Jaffe. 2,528,831, Nov. 7.
Handle for shovels and the like, Extension. C. L. and P. C. Kopplin. 2,529,342, Nov. 7.
Hanger: *See*—
Garment hanger. Wardrobe hanger.
Skirt hanger.
Harvester, Beet. C. W. Walz and R. D. Griff. 2,528,804, Nov. 7.
Harvester, Beet. C. W. Walz, R. D. Griff, and H. F. Clausen. 2,528,805, Nov. 7.
Harvester, Beet. C. W. Walz and H. F. Clausen. 2,528,806, Nov. 7.
Harvesting mechanism. A. W. Oehler. 2,529,180, Nov. 7.
Hassock, Cushion-mat. F. Marsh. 2,528,768, Nov. 7.
Headboard structure for bedsteads. B. C. Deuschle. 2,528,871, Nov. 7.
Head for rotary spindles, Index. J. L. Jessup. 2,528,753, Nov. 7.
Heat exchanger. W. Glover. 2,529,013, Nov. 7.
Heat exchanger. G. E. Hicke. 2,529,215, Nov. 7.
Heater: *See*—
Circulating electric heater. Water and fuel heater.
Electric heater.
Heater and circulator, Wall type electric air. F. A. Graham. 2,528,650, Nov. 7.
Heater for heating air, Low-temperature. P. G. Vicard. 2,528,623, Nov. 7.
Heating and welding, Induction. H. L. Zimmerman and F. J. Van Zeeland. 2,528,810, Nov. 7.
Heating apparatus. E. K. Clark. 2,528,579, Nov. 7.
Heating system. E. H. Hammond and G. D. Wetherbee. 2,529,154, Nov. 7.
Heating unit. H. S. Moore and C. A. Berlepsch. 2,528,966, Nov. 7.
Heavy-duty coaster brake. E. E. Hood. 2,529,210, Nov. 7.
Helicopter, Multirotor. D. B. Linville. 2,529,033, Nov. 7.
High-frequency generator. A. Montani. 2,529,408, Nov. 7.
High-frequency inductor block. J. B. Wadhams. 2,528,714, Nov. 7.
High-pressure pump. F. H. Carey. 2,528,739, Nov. 7.
Hoist boom, Hay. H. E. Sebesta. 2,528,670, Nov. 7.
Holder: *See*—
Adjustable buckle holder. Roll holder.
Cone holder. Saw lubricant holder.
Crucible holder. Score card holder.
Paintbrush holder. Shredded metal holder.
Pressing iron holder. Tumbler holder.
Rod and reel holder. Work holder.
Holder and cooler, Pressing iron. H. J. Burnish, III, and V. F. Burnish. 2,529,132, Nov. 7.
Holder and opener, Bobby pin. M. D. Auman. 2,528,991, Nov. 7.
Holder for dental attendance, Matrix. J. Müller. 2,529,174, Nov. 7.
Holder for garment straps, Unitary thin flat. A. L. B. Powers. 2,529,308, Nov. 7.
Holding and releasing mechanism, Hand brake. K. Williams. 2,529,063, Nov. 7.
Holding means, Article. R. A. Clark. 2,528,860, Nov. 7.
Hood and respirator, Combined. G. H. Schauweker. 2,529,106, Nov. 7.
Horseshoe. O. F. Quartullo. 2,529,419, Nov. 7.
Hot-air furnace. F. L. Meyer. 2,529,406, Nov. 7.
Housing and locking means therefor. H. O. Grimmelsen. 2,528,691, Nov. 7.
Hydrocarbon products, Stabilized. J. P. McDermott. 2,529,303, Nov. 7.
Hydrocarbons by dehydrogenation of naphthenes, Production of aromatic. A. J. Johnson. 2,528,693, Nov. 7.
Hydrogen thyratron. G. J. Reilly and W. E. Harbaugh. 2,528,547, Nov. 7.
Hydromassage device. C. A. Jobe. 2,529,255, Nov. 7.
Ice, Making raw water. A. C. Embshoff. 2,528,875, Nov. 7.
Ice plant, Self-contained portable. E. E. Shonts. 2,528,795, Nov. 7.
Illuminator, Keyhole. D. H. Swanson. 2,529,234, Nov. 7.
Implement, Projectable and retractable writing. S. A. Marples. 2,529,037, Nov. 7.
Increasing the corrosion resistance of ferrous articles. A. F. Winslow and E. W. Balis. 2,529,206, Nov. 7.
Index device for gear grinding machines. A. Aeppli. 2,528,988, Nov. 7.
Indexing mechanism. C. S. Bednash and G. S. Burroughs. 2,528,489, Nov. 7.
Indicator for solenoid valves, Pilot. D. K. McIlvaine. 2,528,898, Nov. 7.
Indicator: *See*—
Mean velocity indicator. Weight on bit indicator.
Optical indicator.
Solution concentration indicator.
Induction apparatus, Electric. G. Camilli. 2,529,135, Nov. 7.
Inking device for laundry marking machines. G. Petty. 2,529,225, Nov. 7.
Inks, Drying printing. C. E. Thorp and L. C. Kinney. 2,528,850, Nov. 7.
Insecticide comprising rotenone and (butylcarbityl) (6-propyl piperonyl) ether as a synergist therefor. L. W. Brannon. 2,528,493, Nov. 7.
Insole. H. Lipton. 2,529,034, Nov. 7.
Installation for dams, Spillway. P. F. Danel. 2,529,141, Nov. 7.
Instrument for drawing noncircular curves. P. Blampied. 2,529,130, Nov. 7.
Instrument, Ink applying. B. J. Swanson. 2,528,921, Nov. 7.
Instrument, String operated magnetoelectric musical. T. W. Mitchell. 2,528,663, Nov. 7.
Insulating material from peat, Preparation of a heat. J. G. Hetland and R. E. L. Moen. 2,529,335, Nov. 7.
Insulator, Cavity. C. H. Ripatte. 2,529,187, Nov. 7.
Interconnecting device, Wave guide. W. Frear. 2,529,381, Nov. 7.
Intermediate fraction with solid adsorbents, Preparation of an. E. R. Gilliland. 2,529,289, Nov. 7.
Iron and alloy addition agent used in method, Production of cast. K. D. Millis, A. P. Gagnebin, and N. B. Pilling. 2,529,346, Nov. 7.
Iron articles and composition therefor, Durably finishing. A. W. Machlet. 2,529,345, Nov. 7.
Jacket, Open out bed. E. L. Winkler. 2,528,630, Nov. 7.
Jig. D. L. Graham and J. Richards. 2,528,511, Nov. 7.
Juicing machine. F. L. McCulloch. 2,528,533, Nov. 7.
Junction box. J. G. Ammells. 2,528,989, Nov. 7.
Junction box. H. L. Bush. 2,529,133, Nov. 7.
Keylock mechanism, Antipick. C. Lurtz. 2,528,964, Nov. 7.
Kit, Shoe polishing. F. W. Knight. 2,529,163, Nov. 7.
Knife, Glazing. J. Porter. 2,528,911, Nov. 7.
Knitting machine. G. H. Woolley. 2,529,207, Nov. 7.
Knitting machine, Warp. R. Bassist. 2,529,241, Nov. 7.
Labeling machine. H. F. Caldwell. 2,528,856, Oct. 7.
Laminated electric condenser. A. Liechti. 2,528,597-8, Nov. 7.
Lamp. F. Oppenheimer. 2,528,969, Nov. 7.
Lamp shade and socket for elongated tubular lamps, Combined. V. I. Zelov. 2,529,122, Nov. 7.
Latch: *See*—
Barn door latch. Door latch.
Latch and lock, Combined door. D. C. Smith and L. I. Oblinger. 2,529,230, Nov. 7.
Latch for automobile doors, Safety. H. M. Jarrett. 2,529,340, Nov. 7.
Latch for windows. H. L. Hawkins, Sr. 2,529,020, Nov. 7.
Latch mechanism, Cam-operated. E. S. Giffin. 2,528,746, Nov. 7.
Latching means for hose nozzle valves. J. A. Logan and E. V. Lavallee. 2,528,696, Nov. 7.
Lateral drill. W. W. Detrick. 2,529,240, Nov. 7.
Laundry machine. L. M. Kahn. 2,528,594, Nov. 7.
Lawn mower, Rotating cutting reel power. H. Goldberg and M. D. Burrows. 2,529,014, Nov. 7.

Leakproof oil filter. F. Lewis and J. Shuler. 2,529,167, Nov. 7.
Lens for focusing radio waves. H. B. De Vore. 2,528,582, Nov. 7.
Lens mounting. L. T. Sachtleben. 2,528,712, Nov. 7.
Leucocyanide composition, Photosensitive. L. Chalkley. 2,528,496, Nov. 7.
Leveler, Tractor ridge. G. C. Ferguson. 2,529,007, Nov. 7.
Lifter for windrowed grain, Swath. O. Sampson. 2,529,422, Nov. 7.
Light: *See*—
Floor lamp guide light.
Lighter and dispenser for cigarettes, Electric. B. Stein. 2,528,619, Nov. 7.
Lighter assembly, Cigarette. P. B. Miller. 2,529,094, Nov. 7.
Lighter, Cigarette. L. K. Davis. 2,528,500, Nov. 7.
Lighter, Cigarette. E. Ellis. 2,528,583, Nov. 7.
Lighter, Cigarette. W. and E. Regelmann. 2,529,104, Nov. 7.
Lighter with elongated flint, Automatic. J. L. A. Borthayre. 2,529,326, Nov. 7.
Liner for incubator trays, Sanitary. J. M. Eberhart. 2,529,284, Nov. 7.
Linkage mechanism, Control. C. E. Jacobus. 2,528,752, Nov. 7.
Lipstick container. H. B. Greene. 2,529,079, Nov. 7.
Liquid contents gauge. P. Goudime-Levkovitsch and S. J. Smith. 2,529,015, Nov. 7.
Liquid soap dispenser. G. R. Barksdale. 2,529,365, Nov. 7.
Loader, Overhead shovel. C. R. Hoover. 2,529,338, Nov. 7.
Locating device, Ground fault. K. J. Barnes. 2,529,126, Nov. 7.
Locator, Hole. T. V. Ogden. 2,528,775, Nov. 7.
Lock: *See*—
Combination lock. Snap-on drawer lock.
Fuel tank lock. Window lock.
Lock. G. E. Redenbaugh. 2,529,421, Nov. 7.
Locking means for outboard motors. A. S. Tenner. 2,529,432, Nov. 7.
Locking means in laundry marking machines, Type wheel. W. S. Petty. 2,529,226, Nov. 7.
Logging of wells, Radio-activity. J. T. Hayward. 2,528,955, Nov. 7.
Loom lay and beam. E. C. Nichols. 2,529,456, Nov. 7.
Lubricant. O. M. Reiff and H. J. Andress, Jr. 2,528,782, Nov. 7.
Lubricants, Extreme pressure. L. A. Mikeska and E. B. Cyphers. 2,529,304, Nov. 7.
Lubricating composition, Fluid. R. L. Merker. 2,528,535, Nov. 7.
Lubricating metal surfaces during cold working. A. G. Rocchini and R. J. Neely. 2,529,190, Nov. 7.
Machine and method for producing bows and pompons. H. M. Cook. 2,528,820, Nov. 7.
Machine and method for use in making ribbed strips for insoles. F. E. Bertrand and A. S. Clark. 2,528,718, Nov. 7.
Machine for applying luminous paint, Stenciling. R. G. Fordyce. 2,529,250, Nov. 7.
Machine for automatically setting and truing the ends of the teeth of saws. A. Vigneau. 2,528,925, Nov. 7.
Machine for cups and the like, Trimming. J. H. Friden. 2,529,382, Nov. 7.
Machine for finishing pistons. W. M. Venner and P. L. Bowser, Jr. 2,529,433, Nov. 7.
Machine for forming rosettes. W. L. Teemsma. 2,528,622, Nov. 7.
Machine for putting bands on balls of knitting wool. L. J. R. Sanders. 2,529,313, Nov. 7.
Machine for the liquid treatment of textile materials. M. Cassé. 2,529,001, Nov. 7.
Machine with perforated rotating drum for filling cushions and pillows with air free fibrous materials. R. J. Goldberg. 2,528,877, Nov. 7.
Magneto, Telephonic call. A. Ducruet. 2,528,874, Nov. 7.
Maintenance of conductivity in electrical systems. R. Sherman. 2,528,558, Nov. 7.
Maker and dispenser, Coffee. F. E. Hummel. 2,529,395, Nov. 7.
Marking arrangement for final selector switches. D. P. Long. 2,529,471, Nov. 7.
Material handling machine. H. E. Swanson. 2,529,200, Nov. 7.
Mean velocity indicator. P. A. Borden. 2,529,070, Nov. 7.
Measuring and controlling system. A. J. Hornfeck. 2,529,450, Nov. 7.
Mechanism for automatic balers, Tying. E. B. Nolt. 2,528,538, Nov. 7.
Mechanism for filling, vacuumizing, and sealing containers. S. H. Berch. 2,528,680, Nov. 7.
Mechanism for loading and unloading. T. J. Kearney and F. E. McGregor. 2,529,297, Nov. 7.
Mechanism for machine tools, Indexing. E. L. Fickett and C. F. Wissenbach. 2,529,332, Nov. 7.
Mechanism for the intake valve of expander engines, Operating. H. W. Whiting. 2,528,627, Nov. 7.
Mechanism in apparatus for treating material with liquid, Agitating. G. L. Bliss. 2,528,851, Nov. 7.
Mechanism of knitting machines, Pattern. F. Lambach. 2,528,524, Nov. 7.
Medicament dispenser. L. A. Cohn and A. Zola. 2,528,819, Nov. 7.
Metals, Electro-recovery of. J. L. Turner and H. V. Alessandroni. 2,529,237, Nov. 7.
Metals from corrosion, Protection of. C. T. Roland. 2,528,787, Nov. 7.
Meter: *See*—
Blood filter and drip meter. Exposure meter.
Methane, Liquefaction of. W. H. Rupp. 2,529,312, Nov. 7.
Method and apparatus for centrifugal separation. H. P. Ritsch. 2,528,974, Nov. 7.
Microphone, Second order differential. A. M. Wiggins. 2,529,467, Nov. 7.
Microphotometer, Automatic registering. E. Vassy. 2,528,924, Nov. 7.
Mill: *See*—
Tandem rotary expanding mill.
Mineral oil composition. H. D. Norris. 2,528,773, Nov. 7.
Mineral oil compositions containing alkyl aminobenzothiophenes. F. P. Richter and E. W. Fuller. 2,528,785, Nov. 7.
Mining machine, Granular. F. C. Greene. 2,528,748, Nov. 7.
Mirror for providing a 360° view to the driver, Automobile. H. Garlow. 2,528,590, Nov. 7.
Mitt, Baseball. A. J. Turner. 2,528,802, Nov. 7.
Mixer: *See*—
Concrete mixer.
Mold: *See*—
Cake mold.
Mold charging apparatus. L. F. Goodrich. 2,528,509, Nov. 7.
Mold for a plastic ring having an annulus and a motif. W. M. Lester. 2,529,091, Nov. 7.
Mold for forming cork insulation, Variable. V. W. Yost. 2,528,808, Nov. 7.
Molding apparatus, Injection. R. Feitl. 2,529,146, Nov. 7.
Molding machine, Block. T. T. Annas. 2,529,066, Nov. 7.
Molding machine, Concrete block. J. B. White. 2,528,931, Nov. 7.
Motor: *See*—
Rotary fluid motor.
Motor with thyratron control, Shaded pole. J. W. Gray. 2,529,469, Nov. 7.
Mount and steering mechanism, Outboard motor. E. W. and H. E. Rickard. 2,528,608, Nov. 7.
Mounting: *See*—
Boiler water drum mounting. Lens mounting.
Sewing machine mounting.
Mower guard. J. M. Leake. 2,529,087, Nov. 7.
Mowing machine. R. Carter. 2,529,328, Nov. 7.
Muffler with inner flexible corrugated conduit. J. J. Thomas. 2,528,674, Nov. 7.
Muffler with plural perforated inner elements. T. A. Carlson. 2,529,136, Nov. 7.
Music exchange, Coin-controlled. W. W. Shayne. 2,529,356, Nov. 7.
Nail used for the intramedullary fixation of a fractured bone, Extracting the. C. A. L. Bassett and E. Evertz. 2,528,941, Nov. 7.
Navigation apparatus for training aircraft personnel, Radio range. R. C. Dehmel. 2,529,468, Nov. 7.
Necklaces, Assembling strung bead. P. Tell. 2,529,059, Nov. 7.
Needle, Run repairing. E. Lalanne and P. Grandjean. 2,528,762, Nov. 7.
Nickel plating, Bright. P. W. Moy and W. P. Karash. 2,528,902, Nov. 7.
9-dialkylamino-5-arylamino[a]phenoxazines. M. L. Crossley, P. F. Dreisbach, R. J. Turner, and C. M. Hofmann. 2,528,863, Nov. 7.
9-propylalkylamino-5-arylaminobenzo[a]phenoxazines. M. L. Crossley, R. J. Turner, and P. F. Dreisbach. 2,528,862, Nov. 7.
Nitriles from isobutylene-nitrosyl chloride adduct. E. J. Prill. 2,528,708, Nov. 7.
Nitro malonic esters, Substituted. D. I. Weisblat and D. A. Lyttle. 2,528,928, Nov. 7.
Nozzle, Automatic filling. C. P. Gravelle. 2,528,747, Nov. 7.
Nozzle for striping machine. S. B. Beugler. 2,528,573, Nov. 7.
Nozzle of the automatic shutoff type, Hose. J. A. Logan and E. V. Lavallee. 2,528,697, Nov. 7.
Nozzle, Sand delivery pipe. G. S. Turner, Jr. 2,528,801, Nov. 7.
Nut, Lock. R. W. Luce. 2,529,093, Nov. 7.
Oarlock. A. L. Shutter. 2,529,357, Nov. 7.
Oil compositions, Lubricating. E. Lieber. 2,529,300, Nov. 7.
Oils, Preparing synthetic drying. J. C. Zimmer and J. H. Bartlett. 2,529,322, Nov. 7.
Oils to wrinkling oils, Polymerizing nonwrinkling. G. M. Williams. 2,528,936, Nov. 7.
Oils, Wrinkling. G. M. Williams. 2,528,937, Nov. 7.
Olefins, Polymerization of. A. H. Friedman. 2,529,010, Nov. 7.
1-acyloxy-4,7-methano-3a,4,7,7a-tetrahydro-4,5,6,7,8,8-hexachloroindenes and producing the same. S. H. Herzfeld and E. P. Ordas. 2,528,655, Nov. 7.
1 - hydroxy - 4,7 - methano - 3a,4,7,7a - tetrahydro - 4,5,6,7,8,8-hexachloroindene and preparing same. S. H. Herzfeld and E. P. Ordas. 2,528,656, Nov. 7.

1,2 - dihydroxy - 4,5,6,7,8,8-hexahalo - 4,7 - methano - 3a,4,7,7a-tetrahydroindane and preparing same. S. H. Herzfeld and M. Kleiman. 2,528,654, Nov. 7.
Opening device, Sack. E. C. Swanson. 2,528,562, Nov. 7.
Operable apparatus, Fluid. H. M. Purcell. 2,529,309, Nov. 7.
Operator construction, Window. M. Gzupkaytil. 2,528,953, Nov. 7.
Ophthalmic device having detachable shield. E. M. Splaine. 2,529,110, Nov. 7.
Optical indicator. W. L. Berssenbrugge. 2,528,681, Nov. 7.
Ore and ore materials, Magnetically roasting hematitic. P. H. Royster. 2,528,552, Nov. 7.
Ornamental screen. M. H. Hintersteiner. 2,528,829, Nov. 7.
Ortho-hydroxy, ortho amino monoazo dyestuffs, Metallized. H. H. Bestehorn and J. F. Morgan. 2,529,444, Nov. 7.
Oscillator, Constant amplitude. G. Muffly. 2,528,703, Nov. 7.
Oxide gels, Drying inorganic. M. M. Marisic. 2,528,767, Nov. 7.
Packaging machine having confection conveying means and a horizontally arranged suction means for opening bags to receive the confections, Confection. V. Blanchard. 2,528,997, Nov. 7.
Packaging machine, Straw. J. B. West. 2,528,930, Nov. 7.
Pad: *See*—
Cleaning pad.
Pad dispenser. E. W. Barszcz. 2,528,488, Nov. 7.
Pad for the application or removal of cosmetics. O. A. Berman. 2,528,812, Nov. 7.
Paintbrush holder. H. C. Kerby. 2,529,257, Nov. 7.
Pan with separator blade therefor, Baking. D. M. Swarthout. 2,528,561, Nov. 7.
Paraffins and olefins, Dehydrogenating. I. D. Hall. 2,529,293, Nov. 7.
Paraformaldehyde from formaldehyde-containing gas. J. F. Walker. 2,529,269, Nov. 7.
Paramagnetic coin separator. R. M. Foushee. 2,528,690, Nov. 7.
Particles and apparatus therefor, Producing and recovering fine carbon smoke. S. H. Katz. 2,528,522, Nov. 7.
Pen, Lettering. E. G. Henry. 2,529,150, Nov. 7.
Pencil, Mechanical. J. H. Mason. 2,528,839, Nov. 7.
Pet feeder. J. R. Coffing. 2,528,742, Nov. 7.
Phase shift system, Electrical. H. E. Tompkins. 2,529,117, Nov. 7.
Phonograph, Automatic. S. A. Stolberg. 2,529,474, Nov. 7.
Phonograph, Automatic magazine. E. Wennerbo. 2,529,438, Nov. 7.
Photograph, Dual image. M. I. Glass and C. L. McShane. 2,529,151, Nov. 7.
Phthalic anhydride, Purification of. C. Conover. 2,529,448, Nov. 7.
Pin: *See*—
Safety pin.
Pipe: *See*—
Smoking pipe.
Piano action. C. F. Stein. 2,528,797, Nov. 7.
Picture system, Sonic. R. H. Rines. 2,528,727, Nov. 7.
Picture system, Sonic. R. H. Rines. 2,528,730, Nov. 7.
Pin elevating and resetting mechanism, Bowling. E. G. Strong. 2,528,560, Nov. 7.
Pipe and pyrophoric lighter, Combined tobacco-smoking. F. H. Bowers. 2,529,278, Nov. 7.
Pipe and valve for flush tanks, Overflow. E. Schulz. 2,528,556, Nov. 7.
Pipe coupling. G. A. Noll. 2,529,098, Nov. 7.
Piston construction. L. E. Simmons. 2,529,053, Nov. 7.
Plant, Unloading, curing, storing, and reloading. E. P. Reese. 2,529,263, Nov. 7.
Planter, Corn. J. L. Binkley. 2,528,996, Nov. 7.
Planter, Tree. L. R. Henderson. 2,529,336, Nov. 7.
Plaster, Therapeutic. M. S. Corbett. 2,529,139, Nov. 7.
Plastic, Method of and apparatus for forming. G. A. Lyon. 2,528,528–9, Nov. 7.
Plate, Fuel burner flame. W. G. Calkins and E. W. Upham. 2,528,738, Nov. 7.
Plating, Copper-tin alloy. F. A. Lowenheim. 2,528,601, Nov. 7.
Plowshare. F. Warholoski. 2,529,435, Nov. 7.
Plug: *See*—
Fused electric plug. Sink trap plug.
Plug and socket, Fuse. R. O. Campbell. 2,528,857, Nov. 7.
Pneumatic micrometry plug gauge. M. Mennesson. 2,529,170, Nov. 7.
Pocket handkerchief holding frame. S. J. Graham. 2,528,878, Nov. 7.
Polymerization at the freezing point of the polymerizate material, Low-temperature. B. R. Tegge. 2,529,318, Nov. 7.
Polymers of ethylene, Extruding and insolubilizing. R. E. Kent. 2,528,523, Nov. 7.
Polysulfides, Production of dialkyl. W. A. Schulze and W. W. Crouch. 2,529,355, Nov. 7.
Portion of igneous electrolytic cells, Construction of the lower. P. J. M. C. Ollivier and R. A. P. G. Perleres. 2,528,905, Nov. 7.
Positioning means for aircraft ejection seats, Body. J. Martin. 2,528,532, Nov. 7.
Powder containing organosiloxane resin and ethanolamine, Molding. W. W. Pedersen. 2,528,606, Nov. 7.
Powdered soap container. K. C. Iliff. 2,528,830, Nov. 7.
Power, Creating. R. Y. Bovee. 2,528,813, Nov. 7.
Power disconnect switch. F. W. Reilly. 2,528,548, Nov. 7.
Power-distribution system. F. V. Collins. 2,528,722, Nov. 7.
Power-operated valve. C. K. Steins. 2,529,431, Nov. 7.
Power transmission apparatus, Hydraulic. E. A. Edwards. 2,528,645, Nov. 7.
Power unit, Combined manual and follow-up pressure fluid. J. F. Morse. 2,528,901, Nov. 7.
Power unit, Electric motor-driven. R. G. Le Tourneau. 2,528,836, Nov. 7.
Pressing iron holder. P. A. Sitnick and A. W. Christopher. 2,528,846, Nov. 7.
Pressure device for lens grinding machines. H. Goldberg. 2,528,952, Nov. 7.
Processing device, Floor. E. A. Detweiler. 2,528,870, Nov. 7.
Propellant compositions, Liquefied gas. F. G. Lodes. 2,529,092, Nov. 7.
Propeller. E. H. Rouse. 2,528,609, Nov. 7.
Prophylactic toxoid compound and making same. L. Pillemer. 2,528,972, Nov. 7.
Propylene polymerization with HF-BF_3. B. L. Evering and E. F. Peters. 2,528,876, Nov. 7.
Protection device, Eye. D. P. Bernheim. 2,529,068, Nov. 7.
Protective arrangement for electric lines. A. Matthey-Doret. 2,528,896, Nov. 7.
Protective system, Electric. A. J. McConnell. 2,529,169, Nov. 7.
Protective system for an overheated journal-bearing and its axle. H. Brandt. 2,528,817, Nov. 7.
Protector: *See*—
Check protector.
Puller, Potato top. T. I. and A. Wiper and G. R. Truskey. 2,528,631, Nov. 7.
Pump: *See*—
Fuel pump. Well pump.
High-pressure pump.
Reversible flow rotary pump.
Pump installation, Well. C. C. Williams. 2,529,062, Nov. 7.
Pump throwout device. M. T. Hedquist. 2,528,653, Nov. 7.
Pump throwout device. O. R. Schoenrock. 2,528,669, Nov. 7.
Purification treatment. J. W. Hood. 2,529,295, Nov. 7.
Purifying and conditioning apparatus, Water. J. H. Krieck. 2,529,398, Nov. 7.
Push on closure cap. J. W. Seigh. 2,529,424, Nov. 7.
Puzzle. D. M. Warren. 2,529,321, Nov. 7.
Pyridine bases, Synthesis of. C. W. Smith and S. A. Ballard. 2,528,978, Nov. 7.
Pyrrolidylethyl carbazole compounds. J. B. Wright. 2,528,939, Nov. 7.
Pyrrolidylethyl indole compounds. J. B. Wright. 2,528,940, Nov. 7.
Raceway surfaces and the like, Inspection of. T. R. Welch. 2,529,360, Nov. 7.
Rack: *See*—
Tie rack.
Radioactive measuring. G. Herzog. 2,528,724, Nov. 7.
Radiographic unit. H. F. Kaiser. 2,528,521, Nov. 7.
Radio receiver having a push-button station selector, Multiband superheterodyne. H. M. Bach. 2,529,443, Nov. 7.
Radio receiver operable for either radio reception or telephone amplification. H. G. Clsin. 2,328,636, Nov. 7.
Rail particularly for mine tracks, Prefabricated detachable guard. S. A. Fredrick. 2,529,077, Nov. 7.
Rake. J. I. Gleekman. 2,529,012, Nov. 7.
Rake, Lawn. C. H. Kaufman. 2,529,025, Nov. 7.
Ranging system, Sound. R. H. Rines. 2,528,725, Nov. 7.
Reaction product of haloalkylthiophenes and hydroxyaryl compounds. J. H. McCracken. 2,528,769, Nov. 7.
Reaction products of diesters of dithlophosphoric acid and mineral oil compositions containing the same. F. B. Augustine. 2,528,732, Nov. 7.
Reclining chair. A. M. Fitzpatrick, Jr. 2,528,505, Nov. 7.
Record editor, Invisible sound. E. E. Masterson. 2,528,699, Nov. 7.
Record, Phonograph. I. C. Clare. 2,529,282, Nov. 7.
Recorder and controller, X-ray radiation time. W. B. Pond. 2,528,545, Nov. 7.
Recording and reproducing system with recorded control signal, Sound. J. T. Mullin. 2,529,097, Nov. 7.
Records, Making illustrated phonograph. T. F. Saffady. 2,528,611, Nov. 7.
Rectifier arrangement cooperating with at least one alternating current-excited electromagnet, particularly an electromagnetic relay, Double-acting. O. Tschumi. 2,529,118, Nov. 7.
Reel, Fishing. E. J. Von Pein. 2,528,926, Nov. 7.
Reeling method and apparatus, Paper. W. R. Thomson. 2,528,713, Nov. 7.
Refining of light oils, Solvent. G. B. Arnold and L. Kovach. 2,529,274, Nov. 7.

Refrigerated self-service display case. D. J. Greiling. 2,529,384, Nov. 7.
Refrigerated shipping container. G. B. Wagner. 2,528,715, Nov. 7.
Refrigerating apparatus, Absorption. H. Stierlin. 2,529,113, Nov. 7.
Refrigeration, Multiple temperature. M. F. Booth. 2,528,574, Nov. 7.
Refrigerator cabinet. J. L. Fletcher. 2,529,380, Nov. 7.
Register mechanism, Sheet. A. J. Albrecht. 2,529,273, Nov. 7.
Regulator: *See*—
Sprayer regulator.
Reinforcing means of shipping frangible tubes. G. A. Kingston. 2,528,959, Nov. 7.
Relay and supporting means therefor, Compact. G. H. Coulter. 2,529,212, Nov. 7.
Relay, Electric. B. E. Getchell. 2,528,591, Nov. 7.
Repellent preparations, Insect. M. Pijoan. 2,528,544, Nov. 7.
Reproducing system, Optical sound. J. R. Sanders. 2,529,050, Nov. 7.
Resinous composition suitable for anion exchange. J. R. Dudley. 2,529,142, Nov. 7.
Resins, Siloxane. E. J. Smith. 2,528,615, Nov. 7.
Resistance material. E. A. Evans and G. H. Porter. 2,529,144, Nov. 7.
Retainer means for machine tools, Hammer. J. J. Mohr. 2,528,702, Nov. 7.
Retracting type theater chair. A. C. Hoven, W. E. Nordmark, and W. S. Lindberg. 2,529,451, Nov. 7.
Retriever assembly, Rod. J. G. Strong. 2,528,799, Nov. 7.
Reversible flow rotary pump. J. T. Leonard. 2,528,784, Nov. 7.
Ring: *See*—
Seal ring.
Roasting, Magnetic. P. H. Royster. 2,528,553, Nov. 7.
Rocker arm, Engine. J. M. Leake. 2,529,089, Nov. 7.
Rocket for propelling underwater torpedoes, Multiple grain. R. W. Wallace. 2,529,465, Nov. 7.
Rod and reel holder. H. C. Fratt. 2,529,148, Nov. 7.
Rods for water tanks, Making sacrifice. B. E. Mustee. 2,529,348, Nov. 7.
Roll holder. A. H. Ramquist. 2,529,420, Nov. 7.
Roller drive for continuous web feeds, Idler. P. Cherigié. 2,529,281, Nov. 7.
Roller skate. M. W. Schmid. 2,529,314, Nov. 7.
Roller, Stippling. C. F. Galen. 2,528,646, Nov. 7.
Roller transporting device for heavy objects. F. E. Kruckenberg. 2,528,760, Nov. 7.
Rotary fluid motor. E. D. Smyser. 2,528,617, Nov. 7.
Rotary valve internal-combustion engine. N. Petras. 2,528,970, Nov. 7.
Rotors, Magnetizing permanent magnet. S. H. Ross. 2,529,049, Nov. 7.
Routing tool. R. J. Higerd. 2,529,157, Nov. 7.
Rubber or latex article. A. N. Spanel. 2,528,980, Nov. 7.
Rubber ring expanding tool. C. Gabel. 2,528,508, Nov. 7.
Rudder and reversible pitch propeller assemblage, Boat. H. G. Johnson and L. M. Kalous. 2,528,755, Nov. 7.
Safeguarding device for machine tools. R. A. Weber. 2,528,565, Nov. 7.
Safety device for automatic pistols. H. A. Stevens. 2,529,359, Nov. 7.
Safety device, Hydraulic brake. L. Morris. 2,529,306, Nov. 7.
Safety pin. I. Glasband. 2,529,383, Nov. 7.
Sampling apparatus, Milk. N. C. Kottkamp, P. J. Bailey, J. M. Trimble, and R. M. Langsenkamp. 2,529,397, Nov. 7.
Sanding device. C. Rogers. 2,529,105, Nov. 7.
Sanding device. S. G. Storberg. 2,529,197, Nov. 7.
Saw lubricant holder. E. L. Flood. 2,529,249, Nov. 7.
Scale, Changeable graduated. E. D. Coleman. 2,528,640, Nov. 7.
Scale, Hydrostatic. F. S. Saunders. 2,529,194, Nov. 7.
Scarfing machine, Automatic. E. Meincke. 2,528,770, Nov. 7.
School to home system. A. C. Bernstein. 2,529,069, Nov. 7.
Score card holder. T. King. 2,528,695, Nov. 7.
Scraper, Drag. M. A. Clark. 2,528,741, Nov. 7.
Scraper, Self-contained power. J. F. Robb. 2,528,550, Nov. 7.
Screen: *See*—
Ornamental screen.
Screen for motor car windows, Insect. L. C. Roberts. 2,528,786, Nov. 7.
Screens, Making fine mesh. H. B. Law. 2,529,086, Nov. 7.
Seal, Gasket. V. W. Peterson and O. J. Maha. 2,528,665, Nov. 7.
Seal ring. K. L. Mathews. 2,528,895, Nov. 7.
Sealing compositions and forming container seals, Container. A. B. Foye. 2,528,506, Nov. 7.
Sealing compositions, Container. A. B. Foye. 2,528,507, Nov. 7.
Seat: *See*—
Adjustably mounted seat.
Selector and price-setting unit, Article. M. Caruso. 2,529,374, Nov. 7.
Self-locking device, Threaded. A. H. Lamb. 2,529,343, Nov. 7.
Sensitometric device. A. Simmon. 2,528,977, Nov. 7.
Separator: *See*—
Paramagnetic coin separator.
Separators for lead-acid electric accumulators, Making wood. H. J. Hampton. 2,529,389, Nov. 7.
Separators, Preparing wooden battery. E. Farber and M. Sciascia. 2,529,006, Nov. 7.
Servo-system. G. Agins. 2,529,065, Nov. 7.
Sewage and the like, Purifying. F. G. Kiekhoefel and L. J. Nemecsek. 2,528,887, Nov. 7.
Sewage treatment process. A. L. Genter and C. C. Kennedy. 2,528,649, Nov. 7.
Sewing machine, Buttonhole. L. R. Bradford, W. W. Dunnell, Jr., and F. J. McAvinney. 2,529,072, Nov. 7.
Sewing machine mounting. B. F. Williams. 2,528,935, Nov. 7.
Sharpener, Safety razor blade. A. Malewski. 2,528,894, Nov. 7.
Sharpening device for scissors. T. A. Calabrese. 2,528,943, Nov. 7.
Shaving brush, Reservoir-handled, measured-feed fountain. J. A. Loewinsohn. 2,529,036, Nov. 7.
Shears. H. N. Boyer. 2,528,815, Nov. 7.
Shears, Hedge. H. N. Boyer. 2,528,816, Nov. 7.
Shears, Metal-cutting. H. E. Menser. 2,529,171, Nov. 7.
Sheath for hunting knives. P. W. Davis. 2,528,501, Nov. 7.
Sheet metal, Method of ornamenting. E. C. V. Oldofredi. 2,528,540, Nov. 7.
Shelter, Portable rig. E. W. Brockman and C. D. Wagner. 2,528,721, Nov. 7.
Shelving. F. H. Whitney. 2,528,807, Nov. 7.
Shelving, Refrigerated. C. B. Shreve. 2,528,916, Nov. 7.
Shield for C-clamps, Spatter. O. F. Potts. 2,528,666, Nov. 7.
Shield for electromagnets. R. F. Willis. 2,529,440, Nov. 7.
Shifting device, Knee operated. W. A. Andres. 2,529,442, Nov. 7.
Shoe anchoring means, Brake. H. Porter. 2,528,707, Nov. 7.
Shoe machine. A. R. Morrill. 2,529,095, Nov. 7.
Shoemaking apparatus. R. W. Bradley and C. Juhola. 2,528,492, Nov. 7.
Shoemaking apparatus. R. W. Bradley and R. C. Wildman. 2,528,491, Nov. 7.
Shower head. A. M. Moen. 2,529,223, Nov. 7.
Shredded metal holder. A. W. Walker. 2,529,434, Nov. 7.
Signal: *See*—
Traffic signal.
Signaling system, Combined facsimile and code. G. H. Ridings. 2,529,264, Nov. 7.
Signs, Forming. J. S. Harrison. 2,528,827, Nov. 7.
Silica-alumina-magnesia catalyst, Preparation of a. E. S. Corner and K. K. Kearby. 2,529,283, Nov. 7.
Sink trap plug. T. L. Lavere. 2,528,660, Nov. 7.
Siren. H. E. Heigis. 2,528,515, Nov. 7.
Sketching set, Pocket. J. E. Lindberg, Jr. 2,528,765, Nov. 7.
Skirt, Collapsible hoop. M. C. Clayton. 2,528,639, Nov. 7.
Skirt hanger. J. V. Rowan. 2,528,788, Nov. 7.
Slicing machine having cutter disk with planetary movement. A. and J. Roest. 2,528,914, Nov. 7.
Slicing machine, Multiple reciprocating blade bread. M. Brustowsky. 2,528,853, Nov. 7.
Smoking pipe. F. P., J. P., and P. P. Catalano. 2,528,858, Nov. 7.
Smoking pipe. G. W. Kowalsky. 2,528,961, Nov. 7.
Snap-on drawer lock. W. A. Poe. 2,528,910, Nov. 7.
Soap bar, Continuous process for making a composite. D. E. Marshall. 2,528,531, Nov. 7.
Soaps, Preparation of metallic. G. G. Unkefer. 2,528,803, Nov. 7.
Soda fountain, Toy. S. P. Midouhas. 2,529,407, Nov. 7.
Solenoid operated switch. W. C. Jackson and L. T. Clemens. 2,528,520, Nov. 7.
Solenoid tractive means, Retarded. E. A. Brass. 2,528,734, Nov. 7.
Solution concentration indicator. A. L. Kohl. 2,528,889, Nov. 7.
Sound receiving method and system. R. H. Rines. 2,528,728, Nov. 7.
Speedometer for automotive vehicles, Electrically operated. H. B. Jaynes. 2,529,082, Nov. 7.
Spool, Collapsible take-up. H. G. Proctor. 2,529,185, Nov. 7.
Spotter mechanism. S. Rappaport and B. G. Proctor, Jr. 2,528,912, Nov. 7.
Spray and washing device, Pressure. D. S. Whisenhunt. 2,528,566, Nov. 7.
Sprayer regulator. J. Kailenta. 2,529,341, Nov. 7.
Spraying device for liquids. E. W. Vose. 2,528,927, Nov. 7.
Spreader and applicator, Bobby-pin. J. L. Guss. 2,529,385, Nov. 7.
Sprinkler. D. E. Ratliff. 2,529,262, Nov. 7.
Square, Roofing and calculating. G. R. Anderson. 2,528,633, Nov. 7.
Squirrel-cage armature of induction motor with bridge resistance. V. Klima. 2,528,960, Nov. 7.
Stabilized composition. B. B. McHan. 2,529,405, Nov. 7.
Staple, Self-locking wire. L. A. Brown. 2,528,685, Nov. 7.
Starter, Engine. C. R. Roche. 2,528,711, Nov. 7.
Steam boiler. J. H. Oberholtzer. 2,529,044, Nov. 7.

Steel, Alloy. W. C. Clarke, Jr. 2,528,497, Nov. 7.
Steel, Alloy. W. C. Clarke, Jr. 2,528,637–8, Nov. 7.
Steel, Producing Bessemer. T. R. Haglund. 2,529,387, Nov. 7.
Steel, Treating silicon. C. H. Campbell, D. S. Ferito, and C. W. Stoker. 2,529,373, Nov. 7.
Steels and irons, Electroplating stainless. C. Batcheller. 2,528,717, Nov. 7.
Stomach-binder and legging combination garment, Infant's. E. Borowick. 2,529,277, Nov. 7.
Stool having revolving seat. C. J. Engstrom. 2,528,949, Nov. 7.
Stripper, Metal drawing. R. T. Catlin and G. R. Eckstein. 2,528,577, Nov. 7.
Strips for insoles, Making ribbed. A. S. Clark. 2,528,719, Nov. 7.
Substation apparatus for local and common battery service, Telephone. H. C. Pye. 2,529,418, Nov. 7.
Sugars in vinasse to fermentable sugars, Converting unfermentable. F. Boinot and P. Gautier. 2,529,131, Nov. 7.
Superphosphate, Manufacture of. S. A. Harvey and G. L. Bridger. 2,528,514, Nov. 7.
Support: *See*—
Brake beam support.
Clothesline support.
Tool support.
Vacuum tube support.
Support and extinguisher for candles, Shade. J. A. McHollan. 2,528,604, Nov. 7.
Support for cathode-ray tubes, Adjustable. F. E. Radman. 2,528,973, Nov. 7.
Support for electric food mixers or the like. R. S. and I. D. Wallach. 2,529,120, Nov. 7.
Support for electron guns. A. L. Buttino. 2,529,134, Nov. 7.
Support for indicators, Universal. J. J. Borrup. 2,529,071, Nov. 7.
Support for ironers, Shiftable. L. M. Kahn. 2,528,595, Nov. 7.
Support for rear axle differentials. A. G. Herreshoff. 2,529,392, Nov. 7.
Support mechanism, Flatiron. P. Cureton. 2,528,821, Nov. 7.
Supporter, Woman's hose. L. B. Cooley. 2,529,074, Nov. 7.
Supporting construction, Skirt and curtain. S. J. Weinzimmer. 2,528,848, Nov. 7.
Surfaces during cold-working, Lubricating metal. A. G. Rocchini and R. J. Neely. 2,529,188–90, Nov. 7.
Suspension for aircraft, Undercarriage. H. Davies. 2,529,377, Nov. 7.
Suspension system, Vehicle. K. B. Kler. 2,529,162, Nov. 7.
Switch: *See*—
Centrifugal switch.
Electric switch.
Power disconnect switch.
Solenoid operated switch.
Time-controlled electric switch.
Toggle-lever switch.
Switch for automatic telephone systems, Selector. H. N. Newstedt. 2,529,409, Nov. 7.
Switch in automatic telephone systems, Selector. C. E. Lomax. 2,529,402, Nov. 7.
Switching device. M. A. Clement. 2,529,375, Nov. 7.
Switching device, Electrical circuit. W. R. Aiken. 2,529,323, Nov. 7.
Switching means, Electromagnetic. L. M. Persons. 2,528,577, Nov. 7.
Switching system applicable to telegraphy, Automatic. H. L. Lesigne. 2,529,166, Nov. 7.
Synchronizer. M. S. Brockman. 2,528,684, Nov. 7.
System electrically responsive to change in level of material in a receptacle. H. J. Monnik and H. H. Eickhoff. 2,528,737, Nov. 7.
System for controlling automatic signaling for telephone lines. H. W. Baizer. 2,529,364, Nov. 7.
System for controlling coin receptacles of pay station telephones. H. N. Newstedt. 2,529,410, Nov. 7.
System of furnishing air conditioning, communication, and entertainment to parked vehicles. T. D. Sharp. 2,529,425, Nov. 7.
Table top, Auxiliary. E. A. Sherman. 2,529,051, Nov. 7.
Tagging and listing machine. T. A. Carothers, C. B. Des Jardins, and E. J. Utz. 2,528,740, Nov. 7.
Tampon, Unequal length fold. F. P. Parish. 2,529,183, Nov. 7.
Tandem rotary expanding mill. H. E. Gross. 2,528,651, Nov. 7.
Tank: *See*—
Fuel tank.
Tank closure, Safety. J. H. De Frees. 2,529,329, Nov. 7.
Tape dispenser. J. D. Johnson. 2,528,958, Nov. 7.
Telegraph apparatus, Printing. H. Angel. 2,529,238, Nov. 7.
Television, Color. P. C. Goldmark. 2,528,510, Nov. 7.
Tens-transfer device. F. Q. Rast. 2,528,781, Nov. 7.
Tension for shuttles, Take-up. J. E. Segee and W. J. Gosselin. 2,528,915, Nov. 7.
Test prod, Self-piercing and self-holding. R. Webster. 2,529,270, Nov. 7.
Testing apparatus, Flexure. G. Stanius. 2,528,918, Nov. 7.
Testing apparatus, Formation. J. C. Stokes. 2,528,981, Nov. 7.
Testing system, Magnetic head. D. L. Blaney. 2,528,682, Nov. 7.
Textiles and making same, Water-repellent. J. B. Rust. 2,528,554, Nov. 7.
Thimble, Sewing. E. L. Schiavone. 2,528,976, Nov. 7.
Threader for winder machines, Web. C. M. Pearson. 2,529,184, Nov. 7.
Tie rack. S. N. Chalka. 2,528,859, Nov. 7.
Tie rack. J. L. Mack, Sr. 2,529,403, Nov. 7.
Tightener for clotheslines. G. Carlson. 2,529,327, Nov. 7.
Tile and binder for the same. P. O. Powers. 2,529,260–1, Nov. 7.
Time-controlled electric switch. D. Morrison and J. J. Everard. 2,528,841, Nov. 7.
Timer, Electric. L. P. Benjamin. 2,529,371, Nov. 7.
Timer, Weld. J. Kurtz and J. D. Waldie. 2,528,835, Nov. 7.
Tobacco package, Sealed. T. E. Piazze. 2,528,778, Nov. 7.
Toggle-lever switch. A. Käser. 2,528,756, Nov. 7.
Tool: *See*—
Dialing tool.
Routing tool.
Rubber ring expanding tool.
Tool chuck, Machine. W. H. Weimer. 2,529,205, Nov. 7.
Tool for agricultural implements, Hand. L. G. Copeman. 2,528,947, Nov. 7.
Tool for boring and countersinking wood. E. V. Eriksson. 2,529,143, Nov. 7.
Toolholder. R. Burns. 2,529,372, Nov. 7.
Tool support. R. E. Hunt. 2,529,396, Nov. 7.
Toothbrush. R. E. Barr. 2,528,992, Nov. 7.
Top structure for motor vehicles, Collapsible. J. H. Orr. 2,529,458, Nov. 7.
Topping attachment for tractors, Beet. T. W. Jones and G. M. Loveland. 2,528,886, Nov. 7.
Torch, Marine. C. Linhardt, Jr. 2,528,837, Nov. 7.
Toy cock, Crowing. S. Krakowski. 2,528,759, Nov. 7.
Toy, Figured. W. H. Stover. 2,528,920, Nov. 7.
Toy gun, Arrow projecting. G. Hane. 2,528,723, Nov. 7.
Toy, Mechanical mobile. J. W. Brookshier. 2,528,494, Nov. 7.
Tractor, Endless tread garden. S. A. Beachy. 2,529,369, Nov. 7.
Tractor, Snow. R. A. Lawrence. 2,528,890, Nov. 7.
Traffic signal. E. A. Lieutard. 2,528,962, Nov. 7.
Transmission, Automatic. E. J. Farkas. 2,528,584, Nov. 7.
Transmission control. C. A. Neracher. 2,528,772, Nov. 7.
Transmission control, Hydraulic. A. L. Johnson and S. A. Kraft. 2,529,160, Nov. 7.
Transmission mechanism. C. E. Schou. 2,529,423, Nov. 7.
Tray for meat slicing machines, Reciprocating receiving. C. Klingens. 2,528,888, Nov. 7.
Trimmer, Lawn. H. B. Wessendorf. 2,528,929, Nov. 7.
Trimming machine, Bellows. S. W. Steele. 2,528,731, Nov. 7.
Truck, Transportation. J. W. Peterson. 2,528,908, Nov. 7.
Truck unit, Corner. A. Hauer. 2,529,390, Nov. 7.
Truing apparatus, Grinding wheel. C. E. Sweetser. 2,528,621, Nov. 7.
Tumbler holder. E. C. Garwood. 2,529,287, Nov. 7.
Tuning device. W. C. Jackson. 2,528,519, Nov. 7.
Turntable mechanism. C. B. Dale. 2,529,376, Nov. 7.
Umbrella. C. E. Clapper. 2,528,578, Nov. 7.
Undercarriage for aircraft, Retractable. D. T. Lawson. 2,529,401, Nov. 7.
Unit for communication systems, Coupling. E. W. Breisch and K. E. Dorlot. 2,529,280, Nov. 7.
Unloader for compressors, Centrifugal. E. Nathan. 2,529,349, Nov. 7.
Vacuum tube support. E. W. Breisch. 2,529,279, Nov. 7.
Valve: *See*—
Automatic shutoff valve.
Power-operated valve.
Valve assembly. A. L. Parker. 2,529,412, Nov. 7.
Valve for carburetors, Throttle. H. S. Brown, W. E. Armstrong, and J. V. Reichenbach. 2,529,244, Nov. 7.
Valve for volatile liquid containers, Two-port. A. F. Blumer and E. J. Verret. 2,529,275, Nov. 7.
Valve mechanism. R. F. Smith. 2,528,796, Nov. 7.
Valve with multiple override, Thermostatic. J. E. Dube, F. M. MacDougall, and G. D. Bower. 2,529,378, Nov. 7.
Vat dyeing process for cellulose acetate textile material. G. W. Seymour, G. C. Ward, and R. L. Hunter. 2,528,614, Nov. 7.
Vehicle actuated gate. F. A. and H. F. Guth. 2,529,386, Nov. 7.
Vending apparatus, Liquid. R. R. Hull. 2,529,394, Nov. 7.
Vending machine. W. C. Makibbin. 2,529,222, Nov. 7.
Vending machine. H. B. Stoner. 2,529,196, Nov. 7.
Venetian blind. G. A. Moore. 2,529,305, Nov. 7.
Venetian blind construction. G. L. Sherwood. 2,529,229, Nov. 7.
Vent, Air inlet. H. Lombard. 2,528,600, Nov. 7.
Ventilated underwater internal-combustion engine. R. B. Whitney. 2,528,628, Nov. 7.
Ventilator. L. P. Touchett. 2,529,462, Nov. 7.
Ventilator, Kitchen. R. B. Robertson. 2,528,844, Nov. 7.
Vibrating mechanism, Screen. R. Stroud. 2,528,620, Nov. 7.
Viewer and projector, Photographic slide. P. A. Sherwood. 2,529,052, Nov. 7.
Viewing device, Stereoscopic. B. L. Taylor. 2,528,673, Nov. 7.
Vision test, Self-administering color. W. F. Grether. 2,528,513, Nov. 7.
Visor, Retractable windshield. C. S. Nichols. 2,528,903, Nov. 7.

Voltage limiting means. C. H. Smoot. 2,529,055, Nov. 7.
Voltage regulator circuit. N. H. Young, Jr., M. Silver, and H. A. French. 2,528,569, Nov. 7.
Wardrobe hanger. J. F. Kay. 2,529,296, Nov. 7.
Washer: *See*—
Egg washer.
Washing apparatus, Automatic textile. G. G. Gaubatz. 2,529,334, Nov. 7.
Water and fuel heater. R. G. Bolin. 2,528,998, Nov. 7.
Weight on bit indicator. J. T. Hayward. 2,528,883, Nov. 7.
Well pump. K. Kelley. 2,528,833, Nov. 7.
Wells, Logging. J. T. Hayward. 2,528,882, Nov. 7.
Wheel structure, Sheet metal. R. E. Smith. 2,529,231, Nov. 7.
Winch, Multiple drum. R. G. Le Tourneau. 2,529,299, Nov. 7.
Wind drift equipment. L. de Florez, E. K. Smith, and G. W. Hoover. 2,528,502, Nov. 7.
Windshield cleaner. J. W. Anderson. 2,528,678, Nov. 7.
Windshield wiper arms, Adjustable length. T. J. Smulski. 2,528,979, Nov. 7.
Winding mechanism. W. P. Dawson. 2,529,075, Nov. 7.
Window. R. E. Sturman. 2,528,800, Nov. 7.
Window lock. J. Sossi. 2,528,618, Nov. 7.
Window operating device, Awning. J. C. Bancroft. 2,528,572, Nov. 7.
Work holder. E. W. Plumb. 2,528,909, Nov. 7.
Wrapping material, Self-sealing. B. L. Trillich. 2,529,060, Nov. 7.
Wrench jaws each having normally aligned work-engaging sections pivotable to V-shape, Confronting. H. N. Boyer. 2,528,814, Nov. 7.
X-ray apparatus. H. A. Newman. 2,529,043, Nov. 7.
X-ray apparatus. H. A. Smith. 2,529,054, Nov. 7.
Xylenes separation. A. P. Lien and D. A. McCaulay. 2,528,892, Nov. 7.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 7, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Classification of Designs

D 2— 3: Des. 160,784	D14— 6: Des. 160,815	D34— 5: Des. 160,789	D44—29: Des. 160,774	D48—32: Des. 160,806
D 3— 4: Des. 160,799	D15— 1: Des. 160,816	Des. 160,807	D45— 4: Des. 160,759	Des. 160,814
Des. 160,800	D22— 3: Des. 160,805	15: Des. 160,782	Des. 160,828	D52— 1: Des. 160,766
Des. 160,801	D26— 5: Des. 160,765	Des. 160,792	16: Des. 160,775	D58— 2: Des. 160,826
26: Des. 160,780	14: Des. 160,822	D35— 3: Des. 160,781	17: Des. 160,803	6: Des. 160,768
Des. 160,821	D29—19: Des. 160,777	D44— 9: Des. 160,769	D47— 7: Des. 160,796	Des. 160,778
D 4— 2: Des. 160,767	23: Des. 160,773	10: Des. 160,784	Des. 160,797	8: Des. 160,779
D 7— 6: Des. 160,787	D31— 4: Des. 160,802	Des. 160,770	Des. 160,804	25: Des. 160,819
D14— 6: Des. 160,760	Des. 160,817	Des. 160,829	D48— 4: Des. 160,791	D61— 1: Des. 160,785
Des. 160,761	D33— 8: Des. 160,790	15: Des. 160,771	Des. 160,809	Des. 160,827
Des. 160,762	D34— 2: Des. 160,794	Des. 160,783	20: Des. 160,793	D65— 1: Des. 160,808
Des. 160,788	Des. 160,795	21: Des. 160,772	21: Des. 160,813	Des. 160,820

D70— 2: Des. 160,810		
Des. 160,811		
Des. 160,812		
D71— 1: Des. 160,818		
D81— 4: Des. 160,776		
Des. 160,798		
D85— 2: Des. 160,763		
Des. 160,786		
Des. 160,823		
Des. 160,824		
Des. 160,825		

U. S. GOVERNMENT PRINTING OFFICE: 1950

November 14, 1950 Volume 640 Number 2

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UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

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Trade-Marks	12	No. 444,308	to No. 444,319,	inclusive
T. M. (Act of 1946)	256	No. 533,273	to No. 533,528,	inclusive
T. M. Renewals	84			
Reissues	1	No. 23,293		
Patents	891	No. 2,529,475	to No. 2,530,365,	inclusive
Designs	83	No. 160,830	to No. 160,912,	inclusive
Total	1,327			

Patents expiring: Patent Numbers 1,934,677 to 1,935,601, inclusive, and Plant Patents, Numbers 81 to 82, inclusive, issued November 14, 1933, expire November 14, 1950

Condition of Applications Under Examination at Close of Business Oct. 27, 1950

Total number of patent applications awaiting action, 127,296. Date of oldest new application, August 9, 1949; date of oldest amended application, August 12, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
* C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spitoons; Sewage.	11-4-49	11-15-49	2667
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	11-4-49	10-5-49	2096
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	1-26-50	1-26-50	1698
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	9-3-49	8-22-49	2217
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-24-49	10-1-49	1550
6. SURLE, H., Carbon Chemistry (part)	1-30-50	1-9-50	1841
7. GONSALVES, J. E., Optics; Photographic Apparatus	4-12-50	4-17-50	1311
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	9-2-49	9-12-49	2697
9. BENSON, R. B., Pumps and Fans	10-13-49	10-11-49	1485
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	12-30-49	10-27-49	1449
11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	9-15-49	9-23-49	1624
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-10-49	12-7-49	1382
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	9-10-49	9-3-49	1956
14. MANIAN, Joseph C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	11-12-49	11-7-49	1334
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	2-20-50	2-21-50	1311
16. LOVEWELL, N. N., Television; Telephony	2-21-50	1-27-50	1036
17. LEIGHEY, R. A., Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-17-49	11-2-49	1971
18. KURZ, J. A., Power Plants; Speed Responsive Devices	8-24-49	8-26-49	1704
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11-21-49	10-25-49	1253
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	10-5-49	10-1-49	1991
21. MADER, R. C., Textiles; Package and Article Carriers	9-12-49	10-8-49	1916
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid and Fluid Current Motors	10-14-49	9-22-49	1543
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-22-49	10-7-49	766
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	3-3-50	3-22-50	1650
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-14-50	1-4-50	1567
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-5-50	12-3-49	1398
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	11-21-49	11-22-49	2135
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-2-49	9-6-49	1636
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-4-50	1-4-50	1767
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	2-28-50	2-27-50	2050
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-19-50	1-21-50	2172
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	2-13-50	1-6-50	1604
33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	11-19-49	10-14-49	2274
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	11-2-49	9-3-49	1934
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	10-8-49	11-2-49	1808
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	10-15-49	10-12-49	1687
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	11-7-49	11-9-49	1090
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	2-25-50	1-27-50	1454
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	8-20-49	8-17-49	3206
40. DRUMMOND, E. J., Receptacles (part); Packages	12-6-49	12-1-49	3273
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	6-6-49	9-6-49	1691
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-20-50	1-3-50	1981
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-24-50	2-7-50	1076

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 127,296. Date of oldest new application, August 9, 1949; date of oldest amended application, August 12, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
44. HARVEY, L. P., Beds; Chairs, Seats	8-22-49	8-12-49	2005
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-7-49	10-15-49	1879
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	10-19-49	10-13-49	1400
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	1-31-50	11-23-49	1901
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	2-7-50	10-22-49	1145
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	10-3-49	9-29-49	2191
50. LEVIN, SAMUEL, Synthetic Resins	4-5-50	2-3-50	1746
51. YAFFEE, S., (Acting), Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	12-19-49	11-9-49	1578
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-10-49	9-9-49	3208
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	1-3-50	11-10-49	1295
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	12-31-49	1-11-50	1461
55. KLINE, J. R., (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	2-1-50	1-10-50	1400
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	1-9-50	1-6-50	1692
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	3-3-50	2-24-50	1448
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	10-13-49	1556
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-21-50	1-18-50	1153
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	3-28-50	12-23-49	1149
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-5-49	11-2-49	1942
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	10-21-49	10-26-49	2581
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	1-31-50	1-30-50	1636
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous	3-30-50	3-31-50	1729
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-7-50	1-12-50	1834
66. LISANN, L., Geometrical Instruments	11-19-49	9-14-49	1160
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	1-31-50	2-1-50	1356
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-26-50	1-3-50	1591
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-7-49	10-28-49	2024
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	11-1-49	8-29-49	2213
DESIGNS: BREHM, G. L.	9-8-49	5-15-50	4752

Total number of trade-mark applications awaiting action (including renewals and republications), 22,616. Date of oldest new application, Jan. 17, 1950; date of oldest amended application, Jan. 17, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-1-50	2-1-50	6628
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	2-20-50	1-27-50	4022
Renewals (All Classes)	8-25-50	9-26-50	192
Republications (All Classes)	9-5-50	9-26-50	259
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	2-6-50	2-3-50	5596
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-17-50	1-17-50	5919

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

PENRITH-AKERS MANUFACTURING CO. *v.* JU-C-ORANGE OF AMERICA

No. 5641. Decided May 9, 1950

[182 F.2d 211; 86 USPQ 75]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—"JU-SEE" AND "JU-C-ORANGE."
   There is no doubt that because the contested marks "Ju-See" and "Ju-C-Orange" are exactly alike in sound and meaning, and very similar in appearance, the concurrent use of such marks on goods of the same descriptive properties would be likely to cause confusion and the deception of purchasers.
2. SAME — CANCELLATION — VALIDITY OF PETITIONER'S MARK.
   Even though a mark, in a counter action, may be held to be descriptive and subject to cancellation, *Held* that the owner of such a mark may rely thereon in a cancellation proceeding to establish confusing similarity of the marks.
3. SAME—SAME—REGISTRATION EVIDENCE OF OWNERSHIP.
   Since the registration of a trade-mark is prima facie evidence of ownership, a valid assignment executed in the petitioner's favor is evidence of the petitioner's use and ownership of the mark in the absence of evidence to the contrary.

APPEAL from Patent Office. Cancellation No. 4455.

AFFIRMED.

Charles R. Allen for Penrith-Akers Manufacturing Co.

Cushman, Darby & Cushman (*William M. Cushman* and *C. Wallard Hayes* of counsel) for Ju-C-Orange of America.

O'CONNELL, *J.:*

This is an appeal from the decision of the Commissioner of Patents, 76 USPQ 58, affirming that of the Examiner of Interferences sustaining appellee's petition, filed October 4, 1944, in accordance with the provisions of the Trade-Mark Act of 1905, to cancel the registration of appellant's mark "Ju-See" on the ground that the mark is confusingly similar to appellee's mark "Ju-C-Orange," the word "Orange" being disclaimed apart from the mark.

The involved goods are of the same descriptive properties and include nonalcoholic beverages, particularly an orange drink of the orangeade type, maltless beverages, sold as soft drinks, sirups, and extracts for making the same. The word "juicy" has been defined and generally accepted as meaning "abounding in juice."

Appellee's mark "Ju-C-Orange" was alleged to have been used by appellee and its predecessor "since July 12, 1929." Appellee took no testimony but with its petition to cancel, No. 4455, submitted labels, bottle caps, and photostats of bottles showing the method by which the mark of appellee was affixed. At final hearing, appellee produced from the files of the Patent Office under Patent Office rule 154(*e*) and relied upon an assignment from appellee's predecessor, Max Krim, of the mark "Ju-C-Orange."

Appellant's first use of its mark "Ju-See" dates from February 1, 1938, a period of more than ten years subsequent to the date of first use by appellee of the mark "Ju-C-Orange."

[1] There is no doubt, as properly decided by the Examiner of Interferences on June 28, 1945, and by the Commissioner of Patents on December 24, 1947, that because the contested marks are exactly alike in sound and meaning, and very similar in appearance, the concurrent use of such marks on goods of the same descriptive properties would be likely to cause confusion and the deception of purchasers. Therefore appellant under section 13 of the Trade-Mark Act of 1905 was not entitled to the use of its mark at the date upon which appellant applied for the registration thereof.

The conclusion hereinbefore expressed does not however dispose of an issue presented by appellant which issue, if valid, would require not only that the concurring decisions of the tribunals of the Patent Office be reversed but also that the registration of "Ju-See" be restored to appellant for its continuous use.

On July 11, 1945, a cross-petition for cancellation, No. 4593, which has not been made a part of the record in the instant case, was filed by appellant wherein appellant sought to cancel appellee's registration of "Ju-C-Orange" on the ground that the mark is merely descriptive of the involved goods.

On July 13, 1945, appellant submitted to the Examiner of Interferences a motion urging that action on appellee's petition to cancel, No. 4455, be suspended until twenty days after the final decision on appellant's petition, No. 4593, to cancel appellee's mark "Ju-C-Orange."

The Examiner overruled appellant's motion to suspend and set both petitions for hearing on the same day. On that occasion, decisions were simultaneously rendered by the Examiner canceling appellant's mark "Ju-See" on the ground that it was

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confusingly similar to appellee's mark "Ju-C-Orange," and canceling appellee's mark on the ground that the mark was merely descriptive of the products sold by both of the parties, 76 USPQ 60.

Appellant contends that the concurring decisions rendered by the Examiner and the Commissioner of Patents constitute gross error because appellant in its answer to appellee's petition to cancel denied that appellee or its predecessor had continuously used the mark "Ju-C-Orange" since July 12, 1929, or prior to February 1, 1938, and further denied that appellee's "registration was properly issued, that it is valid * * * or is owned" by appellee.

Appellant contends further that cancellation of the registration of appellee's mark has a retroactive effect whereby appellee is and was deprived of any statutory rights to maintain an action for cancellation of appellant's mark; that appellee does not now have and never did have a right to intervene or be heard; that since the registration of appellee's mark has now been canceled, the issue of confusing similarity has become moot; and that there is no known provision of the Trade-Mark Act of 1905 which justifies the ex parte cancellation of a registration by the Examiner of Interferences, the Commissioner of Patents, or by this court, citing *"Lactona, Inc.* v. *Lever Bros. Co.*, 32 CCPA (Patents) 704, 568 O. G. 386; *Revere Paint Co.* v. *20th Century Chemical Co.*, 32 CCPA (Patents) 1096-1102, 581 O. G. 167, and others."

[2] It is elementary that a mark merely descriptive of the quality of the merchandise with which the mark is used cannot be appropriated or exclusively used as a trade-mark. *In re W. A. Sheaffer Pen Co.*, 34 CCPA (Patents) 771, 158 F.2d 390, 72 USPQ 129, 596 O. G. 142; *Van Camp Sea Food Co., Inc.*, v. *Westgate Sea Products Co.*, 28 F.2d 957. The owner of such a mark may rely, however, upon the mark as a ground of recovery in a cancellation proceeding. *Derby Oil Company* v. *White Star Refining Co.*, 20 CCPA (Patents) 816, 819, 62 F.2d 984, 16 U. S. Pat. Q. 297, 429 O. G. 75, 76.

[3] The Supreme Court has recognized the rule that the registration of a trade-mark is prima facie evidence of its ownership and the certificate of registration is evidence in any suit or action in which the ownership of the registered mark is brought in controversy. *Elgin National Watch Company* v. *Illinois Watch Case Company*, 179 U. S. 665, 672, 94 O. G. 755. Appellant admitted in its answer that appellee's registration, No. 276,210, here involved was issued to one Max Krim, and the record discloses a valid assignment of the registration duly executed in appellee's favor and thereafter recorded in accordance with the statute. That assignment is evidence of appellee's use and ownership of the mark, in the absence of evidence to the contrary. *Rosengart Etc.* v. *Ostrex Company, Inc.*, 30 CCPA (Patents) 1046, 136 F.2d 249, 57 USPQ 543, 554 O. G. 8. See also *Ely & Walker Dry Goods Co.* v. *Sears, Roebuck & Co.*, 24 CCPA (Patents) 1244, 90 F.2d 257, 33 USPQ 549, 485 O. G. 268.

The cancellation of appellant's mark was effected in an inter partes action and there appears to be no basis for appellant's conclusion that such action was an ex parte procedure. The cases cited by appellant with respect to the effect of an ex parte decision are therefore beside the point. Appellant's contention that the registration of its canceled mark "Ju-See" should be restored is without merit.

In view of that conclusion, it is deemed unnecessary to discuss other points raised by counsel for appellant and, for the reasons hereinbefore stated, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

THE CROWN OVERALL MANUFACTURING COMPANY *v.* DESMOND'S

No. 5668. Decided May 9, 1950. Petition for rehearing denied June 28, 1950

[182 F.2d 645; 86 USPQ 166]

1. TRADE-MARKS—OPPOSITION—GROUND NOT SET FORTH. Where the notice of opposition fails to set forth, as one of the grounds of opposition, that the mark is descriptive, *Held* that the question is not before the court for consideration.
2. SAME—CONFUSION OF PUBLIC—"CROWN" AND "FLEXI-CROWN." *Held* that since the word "Crown" in the applicant's mark, as used in connection with hats or caps, refers to a portion of the product, the term "Flexi" used therewith is indicative of origin and there would be little likelihood of confusion with the use of "Crown" alone on similar goods.

APPEAL from Patent Office. Opposition No. 24,511.

AFFIRMED.

Frank Zugelter, Gerald B. Tjoflat, and *Donald A. Gardiner* for The Crown Overall Manufacturing Company.

John B. Hosty for Desmond's.

JOHNSON, *J.:*

This is an appeal from the decision of the Assistant Commissioner of Patents affirming the decision of the Examiner of Interferences dismissing appellant's notice of opposition to appellee's registration of the notation "Flexi-Crown" as a trade-mark for "Military Caps," and holding that appellee was entitled to register the mark under section 5 of the Trade-Mark Act of 1905. The word "Crown" has been disclaimed.

Appellee alleges use of its mark on its goods since August 1, 1941.

Appellant alleges in its notice of opposition that it is the owner and prior user of two trade-marks registered under the Trade-Mark Act of 1905; viz., Registration No. 199,341, registered June 9, 1925, for "overalls, union-suit working garments for boys, young men, and men," comprising the words, "Crown Adjust-Alls," and Registration No. 128,351, registered January 6, 1920, for "overalls," comprising a picture of a crown and the word "Crown"; that it has used the word "Crown," pictorial representations of a crown, and its corporate name, The Crown Overall Manufacturing Company, as well as variations thereof in numerous ways, types, and characters; that the use by anyone else of the word "Crown" or a pictorial representation of a crown would cause confusion in trade as to the origin of goods so marked to its damage; that the goods for which the appellee seeks to register its mark are of the same descriptive properties as the goods upon which appellant uses its mark; that the marks are confusingly similar, and that confusion in the trade is inevitable; that appellant has at great expense extensively advertised its trade-mark "Crown" in connection with its business; and that valuable good will and property rights resulting therefrom are threatened by the appellee's use of the mark "Crown" upon any articles of apparel. Both of appellant's registrations have been renewed.

Neither party took testimony, but stipulated facts were filed by both parties. On appeal here the appellant filed a brief and was represented by counsel at the oral argument. Appellee neither filed a brief nor appeared through counsel.

The pertinent portion of section 5 of the Trade-Mark Act of 1905, as amended, reads:

> Sec. 5. [15 U. S. C. 85] That no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark unless such mark—
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> * * * * * * * * *
>
> (*b*) * * *: *Provided*, That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered: * * *

The stipulated facts clearly show that opposer (appellant) has used the marks referred to long prior to any use claimed by applicant for its mark; that the goods shown in the registrations are of the same descriptive properties; and that the opposer has used its marks on other similar merchandise, including work caps.

[1] Appellant contends that the word "Flexi" in appellee's mark "Flexi-Crown" is descriptive and that appellee's application should have been denied. Section 6 of the Trade-Mark Act of 1905, as amended [15 U. S. C. 86], provides that: "Any person who believes he would be damaged by the registration of a mark may oppose the same by filing notice of opposition, stating the grounds therefor, in the Patent Office within thirty days after the publication of the mark sought to be registered, * * *." It was not set forth as a ground of opposition in appellant's notice of opposition that the word "Flexi" is descriptive, nor was its claimed descriptive character referred to therein either directly or indirectly. That question, therefore, is not before us for consideration here. *Hygrade Sylvania Corp.* v. *Sontag Chain Stores Co. Ltd.*, 29 CCPA (Patents) 799, 125 F.2d 389, 52 USPQ 349, 539 O. G. 6.

The sole question presented here for decision is whether the marks are confusingly similar within the meaning of the Trade-Mark Act, supra.

It is conceded by appellant that the word "crown" is a common term for a part of a hat, and that it has been for many years used in advertising by appellee and others to designate or describe the top part of hats or caps, as "medium and high crowns," and "low and medium crowns." Appellant contends that as shown in appellee's mark, it is used in a trade-mark sense, appropriating thereby opposer's mark. Appellant argues that its entire mark "Crown" is embodied within appellee's mark "Flexi-Crown," and therefore the marks are confusingly similar. In support of that contention, appellant cites several cases. Prior decisions, however, are of little value in an opposition proceeding because each case must rest upon its own distinctive facts. Likelihood of confusion from similar marks is largely a matter of opinion. *Lever Brothers Co.* v. *George A. Hormel & Co.*, 36 CCPA (Patents) 995, 173 F.2d 903, 81 USPQ 314, 623 O. G. 9.

[2] Appellee's use of the word "Crown" in its mark refers to the top part of a hat or cap. The stipulated facts in the case shown that appellant's mark "Crown" is used to indicate the origin of The Crown Overall Manufacturing Company's merchandise as "'Crown' brand products." We do not believe that appellee's mark "Flexi-Crown" as used by appellee on military caps would be likely to be confused with appellant's mark "Crown" as used by appellant on its various kinds of merchandise, including work caps, as indicating the same source of origin. As was held below, purchasers would consider the "Crown" used in the appellee's mark as merely descriptive, and would rely on "Flexi" as indicative of origin. The decisions in the Patent Office were correct in holding that there would be little if any likelihood of confusion from the contemporaneous use of the two marks.

We accordingly hold that the marks are not so similar that their use would be likely to cause confusion as to the origin of the goods they identify in the minds of purchasers, or the public generally.

AFFIRMED.

O'CONNELL, *J.* (dissenting):

The hyphenated words "Flexi-Crown" are merely descriptive of two of the features of appellee's caps which are uniformly characteristic of all other caps in the same class. Consequently, appellee has no right to the exclusive use of those words, and registration of the mark is prohibited by the explicit mandate of the statute. Under the authorities, and in the public interest, it was the duty of the tribunals of the Patent Office to determine, ex parte, and independent of the issue raised by the notice of opposition or the contentions of the parties, whether the mark was entitled to registration. *Sparklets Corporation* v. *Walter Kidde Sales Co.*, 26 CCPA (Patents) 1342, 1345, 104 F.2d 396, 399, 42 USPQ 73, 76, 509 O. G. 533. *Burmel Handker-*

chief Corp. v. *Cluett, Peabody & Co., Inc.*, 29 CCPA (Patents) 1024, 127 F.2d 318, 53 USPQ 369, 542 O. G. 395; *C. B. S., Inc.* v. *Technicolor Motion Picture Corp. et al.*, 35 CCPA (Patents) 1019, 166 F.2d 941, 77 USPQ 160, 609 O. G. 694. See also *Englander, etc.* v. *Continental Distilling Co.*, 25 CCPA (Patents) 1022, 1024, 95 F.2d 320, 323, 37 USPQ 264, 266, 496 O. G. 274.

The decision of the Commissioner of Patents, for the reason stated, should be reversed.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,027,967, Elmslie & Caldwell, Anthelmintic, filed Sept. 16, 1950, D. C., S. D. Ill. (Quincy), Doc. 138–Q. *Moorman Mfg. Co.* v. *Quisenberry Mills, Inc.*

2,046,393, Lewinsohn & Goldfinger, Illuminated mirror, filed Sept. 22, 1950, D. C., E. D. N. Y., Doc. 11102. *H. Lewinsohn et al.* v. *Star Cabinet Co.*

2,190,880, P. M. Moss, Draw works line controller, D. C., S. D. Calif. (Los Angeles), Doc. 5572–W, *P. M. Ross et al.* v. *Patterson Ballagh Corp. et al.* Injunction restraining defendants from infringing claim 2; referred to Special Master (notice Sept. 18, 1950).

2,206,098, N. Lester, Plastic casting device, filed Sept. 15, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27693, *Lester Engineering Co.* v. *Cleveland Plastics, Inc.*

2,210,846, E. P. Aghnides, Fluid mixing device, filed Aug. 17, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1178, *E. P. Aghnides* v. *Wrightway Engineering Co. et al.*

2,219,393, H. H. McAdam, Defrosting device, filed Aug. 22, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 1205–SD, *Refrigeration Engineering, Inc.* v. *Mitchell's Refrigeration et al.*

2,254,493, E. Pearson, Synchronizing apparatus and system, filed Aug. 28, 1950, D. C., N. D. Ill., E. Div., Doc. 50c1209, *E. Pearson* v. *Central Illinois Light Co.*

2,257,796, H. L. Heineke, Belt tightening and loosening driving connection, filed Aug. 16, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1169, *H. L. Heineke* v. *Reo Motors, Inc.*

2,303,857. (See Re. 23,000.)

2,337,164. (See Re. 23,000.)

2,459,110, S. P. Midouhas, Collapsible clothes line, filed Sept. 18, 1950, D. C., E. D. Pa., Doc. 11381, *Kamkap, Inc.* v. *John Wanamaker.*

2,475,841. (See Re. 23,000.)

2,475,842. (See Re. 23,000.)

2,475,843. (See Re. 23,000.)

2,481,813, J. A. Bede, Spray painting apparatus, filed Sept. 15, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27692, *J. A. Bede* v. *Beck Equipment Co. et al.*

2,503,824, J. L. Hunter et al., Method for rolling strip material, filed Sept. 15, 1950, D. C., N. D. Calif. (San Francisco), Doc. 20024, *Hunter Douglas Corp.* v. *Lando Products, Inc.*

2,518,663, Chaney & Branes, Tube calipering and recording mechanism, filed Sept. 19, 1950, D. C., S. D. Tex. (Houston), Doc. 5795, *Sun Oil Co.* v. *Tubular Service & Engineering Co.*

Re. 20,698, W. H. Bellah, Game apparatus, D. C., N. D. Ill. (Chicago), Doc. 49c878, *Chicago Patent Corp., Inc.* v. *Universal Industries, Inc.* Complaint and counterclaim dismissed with prejudice May 17, 1950.

Des. 23,000, F. M. Jones, Removable cooling unit for compartments; 2,475,841, same, Air conditioning unit; 2,475,842, same, Starter generator; 2,475,843, same, Means operated by a starter generator for cooling a gas engine; 2,303,857, Numero & Jones, Air conditioner for vehicles; 2,337,164, same, Means for automatically starting and stopping a gas engine, D. C., E. D. Mich. (Detroit), Doc. 7393, *U. S. Thermo Control Co.* v. *Frostode Products et al.* Stipulation and consent judgment for plaintiff and dismissing as to C. F. Leathers, L. Smart, H. Purat, and J. Rise (notice Sept. 19, 1950).

Des. 54,296, E. F. Wood, Emblem button, D. C., E. D. Pa. (Philadelphia), Doc. 11202, *The American Legion* v. *Dettra Flag Co., Inc.* Judgment granting injunction Sept. 15, 1950.

Des. 147,368, M. B. Levoy, Spectacle frame, appeal filed Aug. 25, 1950, C. C. A., 2d Cir., Doc. 21750–1, *M. B. Levoy* v. *Ideal Optical Co., Inc., et al.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., N. D. Ill. (Chicago), Doc. 49c1933, *Sanson Hosiery Mills, Inc., et al.* v. *Bonwit Teller, Inc.* Consent judgment holding patent valid and infringed, injunction June 12, 1950. Doc. 49c1955, *Sanson Hosiery Mills, Inc., et al.* v. *Goodfriend's Dept. Stores, Inc.* Decree as above May 4, 1950.

Des. 152,927, K. Stern, Zipper repair tool, D. C., N. D. Ill. (Chicago), Doc. 49c531, *Glenbard Tool Mfrs., Inc.* v. *Mars Tool Co. et al.* Complaint and counterclaim dismissed without prejudice July 13, 1950.

Des. 159,183, A. Benjamin, Extensible band for a watch bracelet, filed Aug. 4, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1124, *J. Major Co.* v. *Steelcraft Co. et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 20,065, Singer Mfg. Co., Sewing machines and attachments and parts thereof; T. M. 69,900, same, Sewing machines and attachments; T. M. 98,707, T. M. 433,685, T. M. 442,525, same, Lubricating oil, D. C., N. D. Ill. (Chicago), Doc. 50c739, *The Singer Mfg. Co. et al.* v. *Illinois Sewing Machine Distributors et al.* Dismissed as to defendant P. Ratner without prejudice July 31, 1950.

T. M. 69,900. (See T. M. 20,065.)

T. M. 98,707. (See T. M. 20,065.)

T. M. 129,217, Schoenhofen Co., Non-alcoholic noncereal maltless beverage and syrup for making same, D. C., N. D. Ill. (Chicago), Doc. 49c495, *Green River Corp.* v. *T. H. Shirley.* Consent decree enjoining defendant June 16, 1950. Doc. 49c496, *Green River Corp.* v. *Spangle Drugs.* Consent decree enjoining defendant June 16, 1950. Doc. 49c497, *Green River Corp.* v. *Rose Bowl Ice Cream Shop.* Default decree for injunction July 6, 1950. Doc. 49c498, *Green River Corp.* v. *Buffalo Confectionery et al.* Consent decree for injunction May 19, 1950. Doc. 49c499, *Green River Corp.* v. *Lansing Green Drugs, Inc.* Consent decree for injunction June 16, 1950. Doc. 49c500, *Green River Corp.* v. *Brown's Pharmacy.* Consent decree enjoining defendant June 16, 1950. Doc. 49c501, *Green River Corp.* v. *Lieberman's Pharmacy, Inc.* Consent decree enjoining defendant June 16, 1950. Doc. 49c1218, *Green River Corp.* v. *Chubat Pharmacy.* Decree for injunction July 6, 1950. Doc. 49c1219, *Green River Corp.* v. *Listecki Pharmacy.* Dismissed without prejudice July 6, 1950. Doc. 49c1220, *Green River Corp.* v. *Dronski's Confectionery.* Decree for injunction July 6, 1950. Doc. 49c1221, *Green River Corp.* v. *Homan Drugs.* Decree for injunction July 6, 1950. Doc. 49c1222, *Green River Corp.* v. *Firestone Pharmacy.* Consent decree enjoining defendant June 16, 1950. Doc. 49c1223, *Green River Corp.* v. *Hamlin-Grand Drugs.* Dismissed without prejudice July 6, 1950. Doc. 49c1225, *Green River Corp.* v. *Arthur's Candies.* Default decree June 2, 1950.

T. M. 334,168, St. George Textile Corp., Rayon and cotton piece goods, D. C., N. D. Ill. (Chicago), Doc. 50c689, *St. George Textile Corp.* v. *Kerman Originals, Inc.* Infringement held, injunction by stipulation June 7, 1950.

T. M. 363,746, Associated Distributors, Inc., Lipstick, rouge, etc., filed Dec. 27, 1949, D. C., S. D. N. Y., Doc. 54/345, *Consolidated Cosmetics* v. *Cassell Products, Inc.*

T. M. 433,685. (See T. M. 20,065.)

T. M. 442,525. (See T. M. 20,065.)

T. M. 503,585, Rhinelander Brewing Co., Beer, D. C., N. D. Ill. (Chicago), Doc. 49c694, *Rhinelander Brewing Co.* v. *Atlas Brewing Co.* Dismissal for want of prosecution May 8, 1950 amended to read dismissal without prejudice June 2, 1950.

NOTICES

Adjudicated Patents

(D. C. Ohio) Wells Patent No. 1,785,568, for a gas range. Claims 1–3 *Held* not infringed. *Estate Stove Co.* v. *General Motors Corp.*, 92 F. Supp. 293; 86 USPQ 212.

(D. C. Ohio) Kahn Patent No. 1,786,429, for a door. Claims 4–6, 8, 15, and 18 *Held* not infringed. *Id.*

(D. C. Ohio) Bradbury Patent No. 2,055,246, for an electric range. Claims 1, 11, 14, and 24 *Held* infringed. *Id.*

(D. C. Ohio) Kahn et al. Patent No. 2,979,618, for a stove. Claims 2–6 *Held* infringed. *Id.*

(D. C. Ohio) Kahn et al. Patent No. 2,123,699, for a stove. Claims 4–6 and 9 *Held* infringed. *Id.*

(C. A. Ill.) Lewis Patent No. 2,208,374, for a television receiving system. Claims 1, 2, and 4 *Held* valid and infringed. *Hazeltine Research, Inc.* v. *Admiral Corp.*, 183 F.2d 953; 86 USPQ 289.

(D. C. N. Y.) Mann Patent No. 2,257,507, for pumping apparatus. Claims 1–3, 8–14, 23–25, and 28–30 *Held* valid. Claims 15–22 *Held* invalid. Claims 6–9 and 24–27 *Held* not infringed. *F. E. Myers & Bro. Co.* v. *Goulds Pumps*, 92 F. Supp. 184; 86 USPQ 12.

(D. C. Calif.) Deskey Patent No. 2,286,068, for a plywood panel, *Held* valid and infringed. *U. S. Plywood Corp.* v. *Zeesman Plywood Corp.*, 92 F. Supp. 336; 86 USPQ 184.

(D. C. N. Y.) Mann Patent No. 2,375,571, for a pumping apparatus. Claims 1–3 *Held* valid. Claims 2 and 3 *Held* not infringed. *F. E. Myers & Bro. Co.* v. *Goulds Pumps*, 92 F. Supp. 184; 86 USPQ 12.

Disclaimers

2,425,314.—*Clarence W. Hansell*, Rocky Point, N. Y. PULSE COMMUNICATION SYSTEM. Patent dated Aug. 12, 1947. Disclaimer filed Oct. 10, 1950, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 18 and 19 of said patent.

2,450,763.—*John W. McNall*, East Orange, N. J. ULTRA HIGH FREQUENCY GENERATOR VACUUM TUBE AND CATHODE STRUCTURE THEREFOR. Patent dated Oct. 5, 1948. Disclaimer filed Oct. 5, 1950, by the assignee, *United States of America as represented by the Secretary of the Navy.*

Hereby enters this disclaimer to claim 7 of said patent.

2,257,507.—*John Mann*, Seneca Falls, N. Y. PUMPING APPARATUS. Patent dated Sept. 30, 1941. Disclaimer filed Oct. 14, 1950, by the assignee, *Goulds Pumps, Inc.*

Hereby enters this disclaimer to claims 15, 16, 17, 18, 19, 20, 21, 22, 26, and 27, in said specification.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,506,142. TWO-STROKE MULTICYLINDER ENGINE. Patented May 2, 1950. Radial aircraft engine having uniflow paired cylinders features a volumetric compressor. A manifold with ports communicating with the cylinders is positioned within the housing of the compressor and communicates with the discharge of the compressor. The compressor housing surrounds the driveshaft of the engine. Rotatable vanes on the compressor are journaled directly on the driveshaft. An eccentrically mounted rotor surrounds the driveshaft and rotates the vanes and gearing between the driveshaft and the rotor, rotating the latter at substantially the same speed and in the same direction as the driveshaft. The compressor functions as a supercharger for the uniflow pair of cylinders. (Owner) Marcel Echard. Correspondence to Glascock, Downing & Seebold, National Press Building, 14th and F Sts., N. W., Washington, D. C. Group 37—22. Reg. No. 38,837.

Pat. 2,202,305. HAIR GRIP PIN. Patented May 28, 1940. Bobby pin of resilient material bent midway between its ends to form two legs. One leg may be straight and other of spiral formation, or both legs may be of spiral formation. The hair is securely gripped by the pin. Pin may be curved to conform to curvature of head. (Owner) John M. Yourek, 2640 West 16th St., Chicago 8, Ill. Groups 30—32; 33—73; 39—91—99. Reg. No. 38,838.

Pat. 2,508,417. OSCILLATING RAILWAY SWITCH. Patented May 23, 1950. Self-cleaning switch is designed to prevent accumulation of snow and dust between the switch members and the track rails. A pair of rails operable from a switch stand of the ground-throw type oscillate in one direction to close the switch and in opposite direction to open it. Each switch rail has a spiral flange which, when switch is closed, forms a continuation of main track. Each switch rail has a spindle supporting a spring which is attached to cross beam of main rails. Slide bar on cross beam is attached to endless chain on spindle and is shifted to open or close switch. Slide bar is attached to a bell crank lever pivoted to an operating rod along track rails. (Owner) Francis W. Orendorff, Longmire, Wash. Groups 33—12—92; 35—69. Reg. No. 38,839.

Pat. 2,504,374. CONTINUOUS FLOW NUT CRACKING APPARATUS. Patented Apr. 18, 1950. Motor-operated nut grader and sheller has a conveyor which receives a continuous flow of ungraded nuts. A series of cracker units are arranged below the discharge port to accommodate nuts of various sizes. Each unit has an inlet hopper with discharge aperture above a pair of rotors. Each rotor has a drive shaft on which are mounted a series of disks arranged in pairs and having resilient fingers extending toward each other forming an orifice. As nuts drop between the rotors, the fingers force the larger nuts through the orifice, cracking the shell, squeezing, loosening, and breaking the nut meats into halves. Nut meats pass between the rollers onto the conveyor, and the remainder of the nuts pass to next smaller cracker unit. (Owner) Frederick M. Baldwin, 145 Bernal Ave., San Francisco, Calif. Group 35—51. Reg. No. 38,840.

Pat. 2,499,436. MEANS FOR INTERLOCKING FOLDERS. Patented Mar. 7, 1950. Closure for folders, pamphlets, etc., consists of interlocking tabs formed by slits in outer edges of cover sheets. Covers extend beyond pages. Opposite slits in the covers curve inward from edge, curving in opposite directions and so arranged that the tip of one tab thus formed in one cover is opposite the root of the tab in other cover. Interlocking of the tabs forms a closure. A second spaced closure has slits curving in reverse directions. (Owner) Alice L. Kaebler, Route 2, Box 467, Gig Harbor, Wash. Groups 26—31—41—91; 27—22—32—34—83. Reg. No. 38,841.

Pat. 2,230,951. CLOTHES BASKET BAIL AND HANGER. Patented Feb. 4, 1941. Bail formed of twisted wire provides a hook which permits a clothes-filled basket to be suspended from a line. Thus a person may hang clothes without leaning over to remove them from basket. The ends of the bail are latched to the handles of basket to prevent accidental detachment. In use, the basket filled with clothes is shifted to an out-of-the-way position along the line as clothes are hung. Several modifications are shown. (Owner) John Hyde, Route 2, Alva, Okla. Groups 25—52; 33—49; 40. Reg. No. 38,842.

Pat. 2,431,091. MULTICOLORED ELECTRIC FLASHLIGHT. Patented Nov. 18, 1947. Traffic signal device has a cylindrical casing for batteries, lamp sockets, and a light reflective body. Head at end of casing has compartments for light bulbs and reflectors connected to the batteries. Bulbs may be of various colors, or uncolored and the light waves filtered through a color. One or more colors may be reflected into the body separately or simultaneously to produce a desired color. (Owner) Robert B. Thomas, 1400 North 37th St., Fort Smith, Ark. Groups 34—81; 36—62. Reg. No. 38,843.

Pat. 2,517,265. MULTICHANNEL TELEVISION SYSTEM. Patented Aug. 1, 1950. Apparatus for long-distance television chain broadcasting system. A series of local stations are established and picture signals of each continuous succession of image-frames are received by a radio receiver. A wire chain system transmits and receives synchronizing signals in addition to audio signals. At each local station continuous and intermittent synchronizing impulses are reproduced and synchronized by the signals received by the wire chain system. The continuous series of image-frames are converted into intermittent image-frames, recombined into one successive chain, and rebroadcast as successive picture impulses. The apparatus at each local station receiver is similar to that used at the television transmitter so that each local station may be transformed into a transmitter for broadcasting video and audio signals to the entire television system. (Owner) George Wald, 25 Pinellas Way, St. Petersburg, Fla. Group 36—61. Reg. No. 38,844.

Pat. 2,519,699. RAPID CALCULATOR FOR USE WITH CARPENTER'S SQUARE. Patented Aug. 22, 1950. Device may be utilized instead of a slide rule to solve mathematical problems which occur in building construction and other fields. Consists of a base provided with a straight edge and an opposite curved edge which form a restricted end and an enlarged end. A slotted bar is disposed on the upper surface of the enlarged section and may be angularly adjusted. The bar is provided with a straight edge that cooperates with the base and is adapted to be slidably engaged by the outer end of the tongue of a carpenter's square. The upper surface of the base is also provided with miter indicia. The base is divided into two sections and hinged so that it may be folded into more compact form when not in use. (Owner) Walter A. Peterson, Box 217, Grand Army Home, King, Wis. Groups 33—52; 39—11. Reg. No. 38,845.

Pat. 2,507,318. RAIN ACTUATED WINDOW CLOSER. Patented May 9, 1950. Small device automatically closes a window when it rains. Device is installed on window sill and includes a cord wound on a spring latch mechanism, the release arm of which is held in place by an easily tearable paper ribbon. When the window to which the free end of the cord is attached is opened, the device is set. Falling rain quickly moistens and splits the ribbon. This releases the spring mechanism, causing the cord to be tightly wound on its spool so that the window is closed. Model in use. (Owner) Jane E. Bangs, 3945 Connecticut Ave., N. W., Apt. 506, Washington, D. C. Groups 24—31; 33—59—83; 40. Reg. No. 38,846.

Pat. 2,517,045. TOOTHBRUSH WITH REMOVABLE HEAD. Patented Aug. 1, 1950. Head of toothbrush is angled rearwardly and has elongated opening to removably receive a brush. Sleeve on upper portion of handle has internal wedge forced into opening when sleeve is moved upwardly. By moving sleeve downwardly brush is locked in position by engagement of side ribs of brush in grooves adjacent opening. Brush may be mounted in either normal or reversed position. (Owner) Chester E. Soule, 216 Coran Lane, Las Vegas, Nev. Group 39—22. Reg. No. 38,847.

Pat. 2,517,514. SCREEN DOOR. Patented Aug. 1, 1950. Rectangular open frame has top and bottom rails, a swinging stile, and a hinged stile. Hinged stile houses a vertical spring roller to which screening is attached. A non-flexible strap is secured to opposite side of screen. Channels in top and bottom rails receive and guide ends of strap. Extensible arms secured to hinged stile and to the strap form a latch to detachably lock screen in extended position. Doorway may be entered either by swinging the door about a pivot secured to door jamb or by rolling up screen on the roller. (Owner) John F. Walsh, 628 Clay Ave., Scranton 10, Pa. Group 25—61. Reg. No. 38,848.

Pat. 2,517,953. IRON HOLDER. Patented Aug. 8, 1950. Wall-attached holder for supporting electric (or other) irons, when not in use, a distance from wall providing air space for cooling iron. A metal plate the shape of an iron has legs and flanges for attaching to wall. Plate has stationary flange at lower edge and one side and a slidable flange at other side horizontally adjustable to support irons of various sizes. A reel integral with adjustable flange extends outwardly at side of plate to support cord. (Owner) Raymond Wilnikka, 106 Stewart, S. W., Grand Rapids 7, Mich. Groups 33—73; 36—21. Reg. No. 38,849.

Pat. 2,514,848. PIVOTED BATHTUB. Patented July 11, 1950. Bathtub pivoted to a stand may be raised by attendant to a vertical position. This enables an invalid to back into tub and grasp hand rails while tub is lowered to a horizontal position for bathing. A threaded rod rotatably mounted and angularly positioned in stand is connected to bottom of tub by a link arrangement. Tub has a combined inlet and outlet communicating by means of hand-operated valves with drain and supply pipes. (Owner) John W. Davis, Jr., 3744 North Cogswell, El Monte, Calif. Group 33—61—71. Reg. No. 38,850.

Pat. 2,517,508. TWO-POSITION BENCH SIFTER. Patented Aug. 1, 1950. Portable sifter for a baker's bench is adjustable to two positions for filling and sifting. A hopper is mounted on a receptacle which has a removable drawer for receiving sifted material. A shaft supports a revolvable brush near bottom of hopper, with a screen below and adjacent the brush. The gear of the shaft meshes with gear on drive shaft of motor mounted at side. Hopper is shifted from angular to vertical position during sifting so that main weight of flour does not rest on the brush at any time and interrupt its rotation. (Owner) Carl A. Schroeder, 5818 Wilshire Blvd., Los Angeles 36, Calif. Group 35—51. Reg. No. 38,851.

Pat. 2,516,330. DEVICE FOR MEASURING THE LIQUID CONTENT OF PARTIALLY FILLED TRANSPARENT CONTAINERS. Patented July 25, 1950. Device is designed to facilitate taking inventory of stock in partially filled bottles (such as liquor or drug bottles) so that liquid dispensed may be frequently checked. The device comprises a bottle-receiving gauge and an upright scale drum. The drum is turned by the gauge to position a scale along the side of bottle, the scale being calibrated to show the number of "shots" remaining in the bottle. (Owner) Harold L. McDougal, 3368 Beren Rd., Cleveland 11, Ohio. Group 35—65. Reg. No. 38,852.

Pat. 2,517,037. ADJUSTABLE ARMREST. Patented Aug. 1, 1950. End armrest of a sofa, couch, etc. is capable of being swung downwardly and outwardly from the normal upright position. This provides an additional seat, or enables a person to recline fully extended without the discomfort of resting his legs on top of armrest. The armrest is hinged to the sofa frame and when swung downwardly is held in a substantially horizontal position by a brace arrangement associated with the armrest and hinged to the legs of the sofa. (Owner) Jack A. Shaw, 1205 East 4th St., Long Beach 12, Calif. Group 25—12—13—19. Reg. No. 38,853.

Pat. 2,492,125. BUZZER IN TELEPHONE RECEIVER FOR SIGNALING. Patented Dec. 20, 1949. Buzzer unit mounted in ear-piece of "Bell" type telephone. An armature is operated by an electromagnet controlled by push button on stand of instrument by closing circuit of a small battery inside stand separate from the transmission line. When buzzer is locally operated, air vibrations produced in ear-piece cause diaphragm of receiver to vibrate and vary the magnetic flux in core of buzzer transmitting calling signal to other end of transmission line. (Owners) Bailey Son and Partners. Correspondence to Glascock, Downing & Seebold, National Press Building, 14th and F Sts., N. W., Washington, D. C. Group 36—62. Reg. No. 38,854.

Pat. 2,518,654. AUTOMATIC CONTROL FOR BOILER FEED PUMPS. Patented Aug. 15, 1950. Automatically controls operation of a feed water pump to maintain water level in a boiler at safe height. Consists of a cylindrical casing containing a float valve assembly to control discharge of steam from the casing through a steam outlet in one side near top to a pump connected to outlet. The casing is adapted to be installed in vertical position with a steam inlet in the top and a water inlet in the bottom so connected to a boiler that water from boiler will rise in the casing to the same height as in boiler. (Owner) Louis P. Backus, 111 South 10th St., Philadelphia, Pa. Group 33—63—64—65—66. Reg. No. 38,855.

Pat. 2,484,154. ILLUMINATED FOUNTAIN PEN. Patented Oct. 11, 1949. Point of fountain pen is illuminated by an electric lamp at end of barrel. Lamp encircles the cylinder holding pen unit within barrel. Filament is connected to battery in other end of barrel maintained in position by a screw cap. Spring in barrel presses on contact of battery and forms a switch. A second switch is connected to lamp. Partial unthreading of cap permits spring to move battery to engage the switches. Owner states that use of a ball point would permit shorter barrel than with usual pen unit. (Owner) John J. Devine, 232 Main St., Middletown, Conn. Group 39—51. Reg. No. 38,856.

Pat. 2,515,979. WALLPAPER CUTTER. Patented July 18, 1950. Extensible carriage is slidable on adjustable base boards of conventional work bench of paper hanger. Carriage has side frames connected by two pairs of telescopic shafts. Transverse shaft in carriage has spaced cutting disks for trimming edges of paper. Ring at center of shaft supports a handle and disk for cutting paper longitudinally. Shaft is rotated to lift cutter disks and insert a roll of paper. The frames are rolled along the boards by pushing handle. (Owner) Attilio Bianchi, 424 East First St., Oglesby, Ill. Groups 33—51; 35—59. Reg. No. 38,857.

Pat. 2,340,890. METHOD AND APPARATUS FOR STERILIZING, PRESERVING, AND IRRADIATING OF VARIOUS LIQUID SUBSTANCES. Patented Feb. 8, 1944. Milk, fruit and vegetable juices, vaccines, and other liquids may be irradiated and sterilized to kill bacteriological impurities without otherwise changing the condition of the liquid. Apparatus consists of telescoped shells formed with a closure at one end and inner walls facing each other, including a baffle structure. Inlet and outlet are provided at opposite ends. Liquid enters the apparatus under pressure to fill the space uniformly with a thin film of liquid that flows from inlet to outlet at approximately the same velocity. One wall has its film-contacting surface exposed to a cooling medium to conduct heat from the film; the other wall is directly exposed to ultraviolet rays. One of the walls is substantially conductive and the other reflective of ultraviolet rays to cause return passage of rays having a residue of energy not exerted on the liquid. (Co-owner) Mrs. A. Lang, 6508 Montgomery Rd., Kennedy Heights, Cincinnati 13, Ohio. Groups 20—33; 35—51; 36—92. Reg. No. 38,858.

Pat. 2,292,466. SPLASH SHIELD. Patented Aug. 11, 1942. Reg. No. 38,859.

Pat. 2,368,375. ANTISPLASH SHIELD. Patented Jan. 30, 1945. Reg. No. 38,860.

Pat. 2,416,944. SPLASH SHIELD. Patented Mar. 4, 1947. Reg. No. 38,861.

The splash shields of these three patents may be removably attached low on the heels of footwear to intercept water etc. thrown upwardly by heels when walking on wet surfaces. This prevents soiling of hose or other clothing. The shield of Pat. 2,416,944 consists of a flat die-cut resilient rubber sheet. An arrangement of slits in the sheet provides a band portion to encircle a heel, and an integral shielding portion with a fringe at the lower end. When the band is stretched around a heel, the shielding portion will conform to and embrace the back of heel in saddle fashion and cause the fringe to fan out from the heel cap. The other two patents show several modified forms of shields having an elastic band or a split metal band to attach them to heels. (Owner) Clarence F. Norlin, 6101 Woodlawn Ave., Chicago 37, Ill. Groups 30—21—22—51; 31—31—32—41.

Pat. 2,519,401. RUBBER SHOULDER PAD. Patented Aug. 22, 1950. Shoulder pad of sponge rubber has a hard rubber insert in the outer end flush with the top to maintain its shape during long use. A slitted slip cover is provided for completely enclosing the pad. The cover may be sewed to a garment and the pad removably inserted therein. (Owner) Ruth Helm Rockwell. Correspondence to James V. Riddel, Jr., 115 North Water St., Wichita, Kans. Groups 23—11—31—33—35—39; 30—51—52. Reg. No. 38,862.

Pat. 2,501,688. PERFORATED TRAY TYPE OIL BURNER. Patented Mar. 28, 1950. Oil burner is designed to give rotary motion to the flame without use of moving parts. A bowl suspended within a pot has its bottom extended upwardly at the center with an inverted cup-shape cap fitted over the extension to provide an air passage between extension and cap. Air forced through openings in the top of the extension into the air passage is heated as it flows through the passage and then discharged through tangential openings in the sides of the cap toward the bottom of the bowl to vaporize fuel therein. Additional air forced into the bowl through a series of tangential and radial openings in its sides imparts rotary motion to the flame within the bowl and directs a portion of it toward the center. (Owner) Manley S. Peeling, Peeling Oil Burner Co., 1469 Merle Ave., Flint 7, Mich. Group 33—63. Reg. No. 38,863.

Pat. 2,057,358. SUBMERGIBLE CARPET. Patented Oct. 13, 1936. Portable enclosure for covering the floor of a body of water provides a safe enclosure for children when placed in shallow water. May be used as a submerged pool in deep water. One type of enclosure shows two sides and one end wall and a series of canvas floor sections removably secured by "zipper" type fasteners. This structure permits a continuous flow of fresh water, yet prevents the ingress of mud. Wall portions are supported by floats having tapes with a series of interlocking fasteners. Anchor means are provided to hold device in spaced relation with bottom of body of water. (Co-owner) Frank U. Baker, 105 North Sycamore St., Lansing 15, Mich. Groups 23—95; 30—49. Reg. No. 38,864.

Des. 159,514. ARMREST. Patented Aug. 1, 1950. A design for an armrest. (Owner) Leonard L. Perlmutter, 3810 Southern Ave., S. E., Washington 20, D. C. Groups 25—12; 38—11. Reg. No. 38,865.

Royalty-Free Patents

In the interest of safety, Allis-Chalmers Manufacturing Company of Milwaukee 1, Wis., hereby grants the people of the United States of America a royalty-free license under all claims of the following two Letters Patent.

Pat. 2,514,089. POWER SHIELDS. Patented July 4, 1950. Folding shield for a drive shaft extending between a tractor and a trailing farm machine (such as a harvester-thresher) may be folded in the middle to swing same upwardly to permit coupling or uncoupling of farm machine shaft to power take-off of tractor. The rear end of the shield is resiliently hinged to a fixed shield on trailing machine, and the other end is releasably and resiliently latched to fixed shield on tractor. Group 35—21—22. Reg. No. 38,866.

Pat. 2,377,331. HARVESTER THRESHER. Patented June 5, 1945. A form of drive from a power source on a tractor to operating mechanisms on a trailing harvester utilizes a drive shaft operatively mounted on a draft portion of the machine and connected in driven relation to power source on tractor. The drive shaft is journaled in a bearing flexibly mounted on draft portion of machine to accommodate for relative movements of tractor with respect to machine in operation of the latter by tractor. Group 35—21—22. Reg. No. 38,867.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 14, 1950

[VOL. 640. NO. 2]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 513,666. LUXURY PRODUCTS COMPANY, Burlington, Iowa. Filed Dec. 4, 1946.

LUXURY

FOR LIQUID WAX COMPOUNDS TO BE USED TO POLISH AND CLEANSE SURFACES OF WOOD, PORCELAIN, AND ENAMEL WHETHER THE SURFACES BE AUTOMOBILES, FURNITURE, STOVES, REFRIGERATORS, OR THE LIKE.

Claims use since July 2, 1946.

CLASS 39

CLOTHING

Ser. No. 500,119. PARAMOUNT SHOE MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 12, 1946.

Cloudsoft

FOR SHOES OF LEATHER, OR A COMBINATION OF LEATHER, RUBBER, OR FABRIC.

Claims use since Apr. 1, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 512,973. INTERCHEMICAL CORPORATION, New York, N. Y. Filed Nov. 21, 1946.

VERITAS

FOR SHOWER CURTAINS, WINDOW CURTAINS, AND TABLE COVERINGS OF TEXTILE FABRIC AND OF PLASTIC IMPREGNATED TEXTILE FABRIC OR THIN TRANSPARENT OR TRANSLUCENT SHEETS OR FILMS OF PLASTIC WITH OR WITHOUT A TEXTILE BACKING SUPPORT SOLD BY THE PIECE.

Claims use since Sept. 16, 1946.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 495,071. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"TOTEM"

FOR TOILET SOAPS.

Claims use since Dec. 31, 1945.

Ser. No. 495,072. LES PARFUMS DE DANA, INC., New York, N. Y. Filed Jan. 19, 1946.

"TWENTY CARATS"

FOR TOILET SOAPS.

Claims use since Dec. 31, 1945.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 537,202. LYN-MAR ACRES, Mount Holly, N. J. Filed Oct. 8, 1947.

Lyn Mar Acres

FOR DOGS AND CATTLE.
Claims use since June 15, 1943.

Ser. No. 555,593. FRED W. BRAY, Buffalo, N. Y. Filed Apr. 26, 1948.

BRAY

The drawing is lined for yellow.
FOR LIVE BABY CHICKENS.
Claims use since 1924.

Ser. No. 560,036. NEIMAN-MARCUS COMPANY, Dallas, Tex. Filed June 23, 1948.

natural
blue
blood
mink

FOR MINK SKINS.
Claims use since June 1, 1948.

Ser. No. 570,194. EAGLE-FLAGG TANNING CORPORATION, New York, N. Y. Filed Dec. 8, 1948.

CALVENE

FOR LEATHER IN THE PIECE FOR SHOE UPPERS.
Claims use since Nov. 8, 1948.

Ser. No. 570,195. EAGLE-FLAGG TANNING CORPORATION, New York, N. Y. Filed Dec. 8, 1948.

CALVETTE

FOR LEATHER IN THE PIECE FOR SHOE UPPERS.
Claims use since Nov. 8, 1948.

Ser. No. 570,196. EAGLE-FLAGG TANNING CORPORATION, New York, N. Y. Filed Dec. 8, 1948.

GALAYETTE

FOR LEATHER IN THE PIECE FOR SHOE UPPERS.
Claims use since Nov. 10, 1948.

Ser. No. 570,197. EAGLE-FLAGG TANNING CORPORATION, New York, N. Y. Filed Dec. 8, 1948.

WAUKEE

FOR LEATHER IN THE PIECE FOR SHOE UPPERS.
Claims use since Nov. 10, 1948.

Ser. No. 570,198. EAGLE-FLAGG TANNING CORPORATION, New York, N. Y. Filed Dec. 8, 1948.

WAUKETTE

FOR LEATHER IN THE PIECE FOR SHOE UPPERS.
Claims use since Nov. 17, 1948.

Ser. No. 573,686. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 10, 1949.

ALLSTATE

Applicant claims ownership of Registration No. 312,161.
FOR SPONGES AND CHAMOIS.
Claims use since Nov. 15, 1932.

Ser. No. 573,801. STANDARD INSULATION COMPANY, East Rutherford, N. J. Filed Feb. 12, 1949.

Drybond

FOR LAMINATED CELLULOSE MATERIAL, THE LAMINATIONS OF THE MATERIAL CONSISTING OF COATED OR CALENDERED PAPER COMBINED WITH PULPBOARD, NEWSBOARD, PAPER FELT, OR CORK, ALL FOR USE AS LINING MATERIAL OR DISCS FOR CROWN CAPS, THREADED CAPS, SCREW CAPS, LUG CAPS, OR MOLDED CAPS.
Claims use since Nov. 9, 1948.

Ser. No. 577,071. ROGERS DELINTED COTTONSEED CO., LTD., Waco, Tex., assignor to Rogers Delinted Cottonseed Co., Waco, Tex., a corporation of Texas. Filed Apr. 13, 1949.

SPACERS

FOR COTTONSEED.
Claims use since Sept. 25, 1947.

Ser. No. 590,278. MODGLIN COMPANY, INC., Los Angeles, Calif. Filed Jan. 3, 1950.

PERMENE

FOR PLASTIC BRISTLES FOR BROOMS AND BRUSHES.
Claims use since June 30, 1949.

Ser. No. 590,415. BELL & ZOLLER COAL COMPANY, Chicago, Ill. Filed Jan. 6, 1950.

MOSS HILL

Applicant claims ownership of Registration No. 434,249.
FOR COAL.
Claims use since 1905.

CLASS 2

RECEPTACLES

Ser. No. 509,124. AERATION PROCESSES, INC., Columbus, Ohio. Original filed, act of 1920, Sept. 16, 1946; amended to application under act of 1946, Principal Register, Aug. 14, 1947. (Sec. 2f.)

INSTANTWHIP

FOR EMPTY REFILLABLE VALVED PRESSURE CONTAINERS.
Claims use since Nov. 23, 1934.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 592,133. B. T. CRUMP COMPANY, INC., Richmond, Va. Filed Feb. 8, 1950.

BILLY DIRECT

The name "Billy Direct" is not the name of any particular living individual.
FOR RACING HARNESS.
Claims use since Jan. 20, 1950.

Ser. No. 597,488. ATLANTIC PRODUCTS CORPORATION, Trenton, N. J. Filed May 16, 1950. (Sec. 2f.)

Motor-Pak

Applicant claims ownership of Registration No. 404,952.
FOR HAND-BAGS.
Claims use since May 28, 1940.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 577,689. ROYAL COACH PRODUCTS, Compton, Calif. Filed Apr. 25, 1949.

Royal Coach

FOR AUTOMOBILE AND FURNITURE WAX POLISHES.
Claims use since July 22, 1947.

CLASS 5

ADHESIVES

Ser. No. 570,916. THEODORE WETHERBEE, trading and doing business as Colorado Stick Quick Sales, Denver, Colo. Filed Dec. 21, 1948.

FOR SOLIDIFIED ADHESIVE CONTAINING BONE GLUE AS THE PREDOMINATING INGREDIENT.
Claims use since Aug. 10, 1948.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 528,540. VICTOR CHEMICAL WORKS, Chicago, Ill. Filed July 12, 1947. (Sec. 2f.)

VICTOR

FOR MONOAMMONIUM PHOSPHATE, DIAMMONIUM PHOSPHATE, AND COMBINATIONS THEREOF WITH SOFTENING AGENTS; MONOCALCIUM PHOSPHATE, DICALCIUM PHOSPHATE, TRICALCIUM PHOSPHATE, CALCIUM PYROPHOSPHATE, SODIUM IRON PYROPHOSPHATE, FERRIC ORTHOPHOSPHATE, FERRIC PYROPHOSPHATE, PHOSPHATED CASTOR OIL FOR USE AS A PLASTICIZER FOR SYNTHETIC RESINS AND RUBBER AND IN THE FINISHING AND FAT LIQUORING OF LEATHER, PHOSPHORIC ACID, METAPHOSPHORIC ACID, POLYPHOSPHORIC ACID, PHOSPHORUS OXYCHLORIDE, PHOSPHORUS TRICHLORIDE, PHOSPHORUS PENTACHLORIDE, PHOSPHORUS, PHOSPHORIC ANHYDRIDE, FERROPHOSPHORUS, MONOPOTASSIUM PHOSPHATE, DIPOTASSIUM PHOSPHATE, TRIPOTASSIUM PHOSPHATE, TETRAPOTASSIUM PYROPHOSPHATE, HEMISODIUM PHOSPHATE, MONOSODIUM PHOSPHATE, DISODIUM PHOSPHATE, TRISODIUM PHOSPHATE, SODIUM ACID PYROPHOSPHATE, TETRASODIUM PYROPHOSPHATE, SODIUM TRIPOLYPHOSPHATE, WETTING AGENTS, FORMIC ACID, ALUMINUM FORMATE, SODIUM FORMATE, SODIUM BOROFORMATE, OXALIC ACID, CALCIUM OXALATE, SODIUM OXALATE, MAGNESIUM SULFATE, SODIUM ALUMINUM SULFATE, SODIUM BICARBONATE, ALKYL ACID PHOSPHATES, ALKYL FORMATES, ALKYL PHOSPHATE SALTS,

ALUMINUM METAPHOSPHATE, BARIUM METAPHOSPHATE, B-CHLOROETHYL FORMATE, CALCIUM METAPHOSPHATE, CARBAMIDE PHOSPHORIC ACID, ETHYL METAPHOSPHATE, HEXAETHYL TETRAPHOSPHATE, MAGNESIUM METAPHOSPHATE, MONOALUMINUM PHOSPHATE, MONOMAGNESIUM PHOSPHATE, PHENYLPHOSPHINATE ESTERS, PHENYLPHOSPHINIC ACID, PHENYLPHOSPHONIC ACID, PHENYLPHOSPHORUS CHLORIDES, PHENYLTHIOPHOSPHONATE ESTERS, PHOSPHONATE ESTERS, POTASSIUM METAPHOSPHATE, PYROPHOSPHATIDIC ACID, SODIUM TRIMETAPHOSPHATE, POTASSIUM PHOSPHATE, TRIALUMINUM PHOSPHATE, TRIMAGNESIUM PHOSPHATE, TRIMETHYL PHOSPHATE, ZINC METAPHOSPHATE, ZINC PYROPHOSPHATE.

Claims use since February 1902.

Ser. No. 563,796. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed Aug. 20, 1948.

FOAMREX

FOR CHEMICAL COMPOSITIONS FOR PREVENTING OR INHIBITING THE FORMATION OF FOAM IN MANUFACTURING PROCESSES.

Claims use since Feb. 4, 1948.

Ser. No. 565,735. PAUL W. SODERBERG, doing business as P. W. Soderberg Co., Burlington, Iowa. Filed Sept. 23, 1948.

FOR BLEACHING AND BLUING PREPARATION.

Claims use since June 1, 1948.

Ser. No. 580,234. EMMETT L. FOX, Brooks, W. Va. Filed June 10, 1949.

FOXSETTE

Applicant claims ownership of Registration No. 432,522.

FOR INSECTICIDE FOR CONTROL OF BEAN BEETLES, POTATO BEETLES, AND CABBAGE WORMS.

Claims use since May 10, 1947.

Ser. No. 580,243. S. C. JOHNSON & SON, INC., Racine, Wis. Filed June 10, 1949.

Colorfresh

FOR WAX EMULSION FOR COATING PRODUCE AND OTHER EDIBLES.

Claims use since Mar. 4, 1949.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 570,735. WESTON INTERNATIONAL ASSOCIATES, New York, N. Y. Filed Dec. 17, 1948.

Twinkle Tip

FOR LIGHTERS—NAMELY, PYROPHORIC CIGARETTE LIGHTERS.

Claims use since Nov. 30, 1948.

Ser. No. 593,235. H. NEGBAUR & CO., New York, N. Y. Filed Mar. 1, 1950.

Pee-Wee

FOR PYROPHORIC CIGAR OR CIGARETTE LIGHTERS.

Claims use since Jan. 23, 1950.

Ser. No. 594,977. MCKEE GLASS COMPANY, Jeannette, Pa. Filed Mar. 31, 1950.

FOR GLASS ASH TRAYS.

Claims use since Jan. 5, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 524,635. TILO ROOFING COMPANY, INC., Stratford, Conn. Original filed, act of 1905, June 21, 1947; amended to application under act of 1946, Principal Register, Mar. 11, 1949. (Sec. 2f.)

TILOCK

Applicant claims ownership of Registration No. 367,735.

FOR ROOFING MATERIALS—NAMELY, SHINGLES OF THE INTERLOCKING TYPE, NORMALLY FLEXIBLE, AND PRODUCED FROM A COMPOSITION OF ROOFING MATERIALS.

Claims use since Dec. 6, 1922.

Ser. No. 555,872. GENERAL REFRACTORIES COMPANY, Philadelphia, Pa. Filed Oct. 23, 1947. (Sec. 2f.)

EVERHARD

Applicant claims ownership of Registration No. 414,556.

FOR FIRE CLAY MORTAR IN DRY FORM.

Claims use since 1929.

Ser. No. 566,305. W. T. SMITH LUMBER CO., Chapman, Ala. Filed Sept. 29, 1948.

The words "W. T. Smith Lbr. Co." and "Chapman, Ala." are disclaimed.

FOR FINISHED AND UNFINISHED LUMBER.

Claims use since Aug. 1, 1948.

Ser. No. 567,791. LACLEDE-CHRISTY COMPANY, St. Louis, Mo. Filed Oct. 28, 1948.

SLAGTITE

FOR REFRACTORY MATERIAL IN BOTH PLASTIC AND DRY FORM WHICH IS USED, FOR EXAMPLE, BUT NOT LIMITED THERETO, FOR LINING HAND AND BULL LADLES, FOR FORMING CUPOLA SPOUTS AND RUNNERS, AND FOR REPAIRING BREAST AND SLAG TAP HOLES.

Claims use since Nov. 11, 1947.

Ser. No. 571,932. HOME PROTECTION COMPANY, INCORPORATED, Big Rapids, Mich. Filed Jan. 10, 1949.

FOREST-WOOL

The term "Wool" is disclaimed.

FOR FINELY DIVIDED INSULATING MATERIAL IN BULK FORM MADE FROM GROUND PULP PAPER CHEMICALLY TREATED TO RENDER SAME FIRE AND VERMIN RESISTANT.

Claims use since Oct. 30, 1948.

Ser. No. 572,667. JONES & LAUGHLIN STEEL CORPORATION, Pittsburgh, Pa. Filed Jan. 24, 1949.

J&L

FOR METAL STRUCTURAL SHAPES.

Claims use since Jan. 1, 1927.

Ser. No. 572,882. WEBRIB STEEL CORPORATION, New York, N. Y. Filed Jan. 26, 1949. (Sec. 2f.)

WEBRIB

Applicant claims ownership of Registration No. 410,164.

FOR STEEL CONCRETE REINFORCING BARS.

Claims use since Feb. 5, 1943.

Ser. No. 573,109. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y. Filed Feb. 1, 1949.

DUBLECOTE

FOR COMPOSITION SHINGLES.

Claims use since July 1934.

Ser. No. 577,392. MAINTENANCE INC., Wooster, Ohio. Filed Apr. 19, 1949.

J-16

FOR SURFACE COATING MATERIAL RESISTANT TO MOISTURE AND CERTAIN SOLVENTS AND CHEMICALS AND COMPRISING A TAR PITCH BASE WITH ADDED INGREDIENTS, PARTICULARLY ADAPTED TO SERVE AS A COATING FOR CONCRETE, METAL, AND ASPHALT OBJECTS.

Claims use since June 17, 1940.

Ser. No. 578,499. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa. Filed May 10, 1949.

TEMPLE

FOR FIRE BRICK.

Claims use since March 1928.

Ser. No. 582,252. STORM WIZARD MANUFACTURING CO., Philadelphia, Pa. Filed July 20, 1949.

The drawing is lined for the color blue. The word "Storm" is disclaimed.

FOR STORM WINDOWS AND STORM DOORS.

Claims use since Apr. 8, 1949.

Ser. No. 582,676. THE DANBURY RUBBER COMPANY, INC., Danbury, Conn. Filed July 29, 1949. (Sec. 2f.)

DANBURY

Applicant claims ownership of Registration No. 430,550.

FOR RUBBER FLOOR AND WALL TILE.

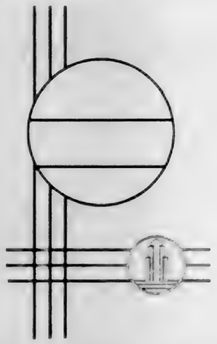
Claims use since spring season of 1928.

Ser. No. 584,329. INTERNATIONAL FELT CORP., Philadelphia, Pa. Filed Sept. 1, 1949.

FOR FELT MATERIAL USED FOR INSULATING, WATERPROOFING, AND SOUNDPROOFING PURPOSES.

Claims use since Sept. 1, 1948.

Ser. No. 387,593. PERMANENTE CEMENT COMPANY, Oakland, Calif. Filed Sept. 16, 1949.



Applicant claims ownership of Registrations Nos. 380,623, 413,680, 413,797, 413,798, and 417,335.
FOR BUILDING CEMENT.
Claims use since Apr. 12, 1945.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 571,373. HENRY WEIS MANUFACTURING COMPANY, Elkhart, Ind. Filed Dec. 30, 1948.

WEISWAY

FOR CABINET SHOWERS.
Claims use since June 1930.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 386,657. SOCIÉTÉ ANONYME DES MINES ET FONDERIES DE ZINC DE LA VIEILLE-MONTAGNE, Angleur, Par Chenee, Belgium. Filed Oct. 21, 1949.

The words "Fabrique en Belgique" are disclaimed. Applicant claims ownership of Belgian Registration No. 6,445, dated Mar. 15, 1949.
FOR THERMIC RAW ZINC.

Ser. No. 386,658. SOCIÉTÉ ANONYME DES MINES ET FONDERIES DE ZINC DE LA VIEILLE-MONTAGNE, Angleur, Par Chenee, Belgium. Filed Oct. 21, 1949.

The words "Fabrique en Belgique" are disclaimed. Applicant claims ownership of Belgian Registration No. 6,434, dated Feb. 15, 1949.
FOR LEAD.

Ser. No. 586,659. SOCIÉTÉ ANONYME DES MINES ET FONDERIES DE ZINC DE LA VIEILLE-MONTAGNE, Angleur, Par Chenee, Belgium. Filed Oct. 21, 1949.

No claim is made to the exclusive use of the wording "Zinc Electro Balen" and "Fabrique en Belgique." Applicant claims ownership of Belgian Registration No. 6,436, dated Feb. 15, 1949, and U. S. Registrations Nos. 84,138 and 84,139.
FOR ELECTROLYTIC RAW ZINC.

CLASS 15

OILS AND GREASES

Ser. No. 559,872. UNITED TIRE & ACCESSORIES COMPANY, Tulsa, Okla. Filed June 21, 1948.

RED I POWER

FOR LUBRICATING GREASES.
Claims use since June 13, 1947.

Ser. No. 561,287. AUTOL INCORPORATED, New York, N. Y. Filed July 14, 1948.

The word "Extra" is disclaimed. The drawing is lined for the colors red and yellow.
FOR LUBRICATING OIL AND GREASES AND HYDRAULIC BRAKE OIL OF PETROLEUM BASE.
Claims use since July 8, 1948.

Ser. No. 570,067. STANDARD INDUSTRIAL COMPOUNDS CO., Chicago, Ill. Filed Dec. 6, 1948.

STACOM

FOR MANUFACTURER'S METAL WORKING COMPOUNDS—NAMELY, METAL DRAWING COMPOUNDS.
Claims use since Nov. 5, 1948.

Ser. No. 592,464. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed Feb. 15, 1950.

VESUVIUS

FOR INDUSTRIAL GREASE FOR EXTERNAL GEAR AND WIRE ROPE LUBRICATION.
Claims use since August 1934.

Ser. No. 592,785. STA-VIS OIL COMPANY, St. Paul, Minn. Filed Feb. 20, 1950.

STA-VIS

Applicant claims ownership of Registrations Nos. 267,732 and 520,212.
FOR LUBRICATING OILS AND GREASES AND FOR EMULSIFIED OIL FOR USE WITH ADDITIONS OF WATER IN COATING CONCRETE FORMS.
Claims use since June 27, 1928.

Ser. No. 592,946. SIGURD SIRE, doing business as Northern Lubricating Company, Minneapolis, Minn. Filed Feb. 23, 1950.

PLYMOLUBE

FOR LUBRICATING OILS.
Claims use since Feb. 18, 1950.

Ser. No. 593,253. WARREN REFINING & CHEMICAL CO., Cleveland, Ohio. Filed Mar. 1, 1950.

PLASTILUBE

FOR NON-LIQUID, NON-MELTING, GREASE-TYPE LUBRICANTS FOR METAL PARTS.
Claims use since Jan. 6, 1950.

Ser. No. 594,289. STA-VIS OIL COMPANY, St. Paul, Minn. Filed Mar. 20, 1950.

FARMORE

FOR LUBRICATING OILS AND GREASES.
Claims use since Dec. 5, 1949.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 515,558. HOCKADAY, INC., Chicago, Ill. Original filed, act of 1905, Jan. 10, 1947; amended to application under act of 1946, Principal Register, Apr. 2, 1948. (Sec. 2f.)

HOCKADAY

FOR PASTE AND READY-MIXED PAINTS, VARNISHES, LACQUERS, AND PAINT ENAMELS.
Claims use since 1920.

Ser. No. 560,564. JOHN LUCAS & COMPANY, INC., Philadelphia, Pa. Filed July 1, 1948. (Sec. 2f.)

LUCASEAL

FOR OIL STAINS; VARNISHES; AND UNDERCOATERS IN THE NATURE OF PAINTS, VARNISHES, LACQUERS, OR ENAMELS.
Claims use since November 1921.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 569,212. NUMOTIZINE, INC., Chicago, Ill. Filed Nov. 22, 1948.

NUBILAX

FOR LAXATIVE AND BILE STIMULANT.
Claims use since Oct. 5, 1948.

Ser. No. 572,383. C. G. SMITH PRODUCTS COMPANY, Blytheville, Ark. Filed Jan. 18, 1949.

The portrait shown is that of Bob Raburn, and consent is given.
FOR LINIMENT FOR THE TREATMENT OF BOWED TENDONS, RUPTURED TENDONS, CURBS, BONE SPAVINS, SPLINTS, SORE SHOULDERS, AND QUARTERCRACKS, OSSICLE TROUBLE, SESAMOID TROUBLE, SUSPENSORY TROUBLE, AND OTHER SORENESS IN HORSES; AND FOR USE IN THE TREATMENT OF COMMON COLDS, NEURITIS, ARTHRITIS, RHEUMATISM, OR ANY STIFF JOINT OR MUSCLE, AND ASTHMA IN HUMAN BEINGS.
Claims use since Jan. 1, 1949.

Ser. No. 591,763. ANGIER CHEMICAL COMPANY, Boston, Mass., assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass., a corporation of Massachusetts. Filed Feb. 1, 1950.

S-D-O

FOR THERAPEUTIC AGENT FOR THE TREATMENT OF SKIN DISEASES.
Claims use since June 10, 1948.

Ser. No. 595,831. ETHICON SUTURE LABORATORIES INCORPORATED, New Brunswick, N. J. Filed Apr. 17, 1950.

BIO-SORB

FOR ABSORBABLE DUSTING POWDER FOR MEDICAL AND PHARMACEUTICAL USE.
Claims use since March 1947.

CLASS 19

VEHICLES

Ser. No. 507,420. PROTECTION PRODUCTS CO., Chicago, Ill. Original filed, act of 1905, Aug. 14, 1946; amended to application under act of 1946, Principal Register, Apr. 26, 1948. (Sec. 2f.)

PROTECTION

FOR AUTOMOBILE SEAT COVERS.
Claims use since June 1, 1919.

Ser. No. 581,342. MOTOMATIC PRODUCTS COMPANY, Cleveland, Ohio. Filed June 30, 1949.

PANA-VUE

The word "Vue" is disclaimed.
FOR REAR VIEW MIRRORS.
Claims use since Mar. 7, 1949.

Ser. No. 586,341. BUTLER MANUFACTURING COMPANY, Kansas City, Mo. Filed Oct. 15, 1949. (Sec. 2f.)

BUTLER

Applicant claims ownership of Registrations Nos. 285,197, 314,477, 314,851, 314,942, 319,608, 383,273, 415,478, and 422,858.
FOR TRUCK TANK AND TRAILER TANK VEHICLES.
Claims use since May 1, 1930.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 597,936. BIRD & SON, INC., East Walpole, Mass. Filed May 23, 1950.

DURACOTE

FOR ASPHALT SATURATED FELT BASE FLOOR COVERING.
Claims use since May 2, 1950.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 547,056. THE THOMAS & BETTS CO., Elizabeth, N. J. Filed Jan. 14, 1948. (Sec. 2f.)

CHASE

FOR ELECTRICAL MERCHANDISE — NAMELY, NIPPLES AND COUPLINGS.
Claims use since Nov. 1, 1907.

Ser. No. 548,033. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo. Filed Jan. 26, 1948.

Model Farm

The word "Farm" is disclaimed. Applicant claims ownership of Registration No. 416,093.
FOR ELECTRIC FENCE CONTROLLERS, GASOLINE POWERED GENERATORS, AND ELECTRIC WATER HEATERS.
Claims use since Sept. 4, 1946.

Ser. No. 566,531. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Oct. 6, 1948. (Sec. 2f.)

CABLE-TITE

Applicant claims ownership of Registration No. 407,637.
FOR ELECTRICAL FITTINGS—NAMELY, CONNECTORS, TERMINALS, AND LUGS, ESPECIALLY FOR USE IN CONJUNCTION WITH ELECTRICAL WELDING MACHINES.
Claims use since Apr. 15, 1943.

Ser. No. 567,399. HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Newark, N. J. Filed Oct. 21, 1948.

LETHERAY

FOR ULTRAVIOLET GERMICIDAL LAMPS.
Claims use since July 18, 1947.

Ser. No. 576,105. BENJAMIN ELECTRIC MANUFACTURING COMPANY, Des Plaines, Ill. Filed Mar. 26, 1949.

VARIETY LITE

Applicant disclaims the word "Lite."
FOR REFLECTORS FOR ELECTRIC LAMPS.
Claims use since June 1937.

Ser. No. 582,017. MAURICE J. BLONS, doing business as M. J. Blons and Company, Chicago, Ill. Filed July 15, 1949.

Blons-Ray

Applicant disclaims the words "Blons-Ray."
FOR ULTRA VIOLET GERMICIDAL LAMPS.
Claims use since Jan. 1, 1949.

Ser. No. 582,572. MOHAWK BUSINESS MACHINES CORPORATION, New York, N. Y. Filed July 27, 1949.

SoundMAGNET

FOR SOUNDMAGNET FOR ELECTRICAL SOUND RECORDING AND REPRODUCING SETS.
Claims use since June 7, 1949.

Ser. No. 585,740. AVCO MANUFACTURING CORPORATION, Cincinnati, Ohio. Filed Oct. 4, 1949. (Sec. 2f as to "Crosley.")

CROSLEY

Applicant claims ownership of Registrations Nos. 244,510, 333,597, and others.
FOR RADIO RECEIVING SETS AND TELEVISION RECEIVING SETS.
Claims use since September 1946 as to the mark shown; and since 1922 as to "Crosley."

Ser. No. 588,965. THE MURPHY ELEVATOR COMPANY, Louisville, Ky. Filed Dec. 7, 1949.

MOT-O-LIFT

The word "Lift" is disclaimed.
FOR HEAVY DUTY ELECTRIC FREIGHT ELEVATORS.
Claims use since June 1, 1949.

Ser. No. 591,959. S & C ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 3, 1950.

POSITROL

FOR FUSE LINKS.
Claims use since October 1949.

Ser. No. 593,280. MCGRAW ELECTRIC COMPANY, Elgin, Ill. Filed Mar. 2, 1950.

Applicant claims ownership of Registration No. 434,138.
FOR ELECTRICAL APPLIANCES—NAMELY, AUTOMATIC POP-UP TOASTERS, WATER HEATERS, COFFEE MAKERS, WAFFLE BAKERS, FLATIRONS, AND FOOD HEATING CONTAINERS.
Claims use since July 28, 1947.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 573,437. PAUL A. PRICE, doing business as Paul A. Price Company, New York, N. Y. Filed Feb. 7, 1949.

ALPHABETOS

FOR TOY SETS OF LETTERS AND NUMERALS.
Claims use since Jan. 14, 1949.

Ser. No. 579,804. ERIC G. CLARKE, doing business as Eric G. Clarke and Company, Portland, Oreg. Filed June 1, 1949.

"Dictionary Please!"

FOR WORD BUILDING GAME IN THE NATURE OF ANAGRAMS.
Claims use since Feb. 22, 1949.

Ser. No. 587,399. RATTLELITE CORP., New York, N. Y. Filed Nov. 5, 1949.

JOLLY BLINKER

The word "Blinker" is disclaimed.
FOR TOY RATTLES.
Claims use since Sept. 21, 1949.

Ser. No. 590,332. SOUTHERN ATHLETIC COMPANY, INC., Knoxville, Tenn. Filed Jan. 4, 1950.

"Wynnbilt"

FOR FOOTBALL SHOULDER PADS AND HIP PADS, AND BLOCKING AND TACKLING DUMMIES.
Claims use since March 1940.

Ser. No. 590,926. AMERICAN METAL SPECIALTIES CORP., also known as American Metal Specialties Corporation, Hatboro, Pa. Filed Jan. 16, 1950.

Amsco

FOR CHILDREN'S SAND BOXES AND PLAY POOLS AND DOLLS' BATHS, DOLLS' BEDS, DOLLS' GLIDERS,

DOLLS' HIGH CHAIRS, DOLLS' SWINGS, AND DOLLS' NURSING SETS, EACH OF SAID NURSING SETS CONSISTING OF A POT AND LID, A BOTTLE RACK CONTAINING NURSING BOTTLES, A FUNNEL, A NIPPLE JAR AND LID CONTAINING NIPPLES, A BOTTLE BRUSH, A MEASURING CUP, AND A FORMULA MEASURING SPOON.
Claims use since Jan. 2, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 488,209. FARMS TOOLS, INC., Mansfield, Ohio. Original filed, act of 1905, Sept. 10, 1945; amended to application under act of 1946, Principal Register, Dec. 23, 1948. (Sec. 2f.)

DISK-HAWK

The drawing is lined for blue, green, and yellow.
FOR DISC HARROWS.
Claims use since Aug. 1, 1940.

Ser. No. 524,462. HOLLY MOLDING DEVICES, INC., Chicago, Ill. Original filed, act of 1905, June 19, 1947; amended to application under act of 1946, Principal Register, Feb. 14, 1948. (Sec. 2f.)

HOLLY JR.

FOR HAND OPERATED HAMBURGER PATTY MOLDING MACHINES.
Claims use since Apr. 6, 1939.

Ser. No. 526,880. CENTRAL OHIO STEEL PRODUCTS COMPANY, doing business as The Gallon Allsteel Body Company, Gallon, Ohio. Filed July 5, 1947. (Sec. 2f as to "Gallon.")

GALLON Allsteel

The word "Allsteel" is disclaimed.
FOR HYDRAULICALLY OPERATED DUMP BODIES FOR AUTOMOBILE TRUCKS AND HOISTS MOUNTED WITH SUCH DUMP BODIES.
Claims use since 1920.

Ser. No. 538,299. R. G. LE TOURNEAU, INC., Stockton, Calif., and Peoria, Ill. Filed Oct. 18, 1947.

TOURNAMATIC

FOR POWER TRANSMISSION UNITS, PARTICULARLY TRANSMISSIONS AND DIFFERENTIALS.
Claims use since Mar. 19, 1947.

Ser. No. 542,644. OPTICAL DEVICES, INCORPORATED, Joliet, Ill. Filed Nov. 28, 1947.

LITTLE BROWN

FOR EDGER BOOSTER, AN ACCESSORY FOR LENS EDGING MACHINES.
Claims use since Mar. 15, 1947.

Ser. No. 554,262. SENECA FALLS MACHINE COMPANY, Seneca Falls, N. Y. Filed Apr. 9, 1948. (Sec. 2f.)

Lo-swing

Applicant claims ownership of Registration No. 149,575.
FOR LATHES.
Claims use since March 1905.

Ser. No. 556,259. LOU GOTTLIEB & SON, INC., Philadelphia, Pa. Filed May 5, 1948.

SODIBAR

FOR APPARATUS FOR PRODUCING AND DISPENSING CARBONATED AND NON-CARBONATED BEVERAGES—NAMELY, CARBONATORS AND BEVERAGE DISPENSERS.
Claims use since Apr. 1, 1948.

Ser. No. 556,292. WILLIE M. SHOFFNER, Dayton, Ohio. Filed May 5, 1948.

ROTO-TABLE

The word "Table" is disclaimed.
FOR PORTABLE TOOL STANDS EQUIPPED WITH A POWER UNIT FOR RECEIVING AND SUPPORTING TOOLS AND OPERATING SAME.
Claims use since Mar. 9, 1948.

Ser. No. 556,417. COLONIAL KNIFE COMPANY, INC., Providence, R. I. Filed May 7, 1948.

Master

Applicant claims ownership of Registration No. 378,715.
FOR POCKET KNIVES.
Claims use since Mar. 12, 1939.

Ser. No. 565,370. THE RAPIDS-STANDARD COMPANY, INC., Grand Rapids, Mich. Filed Sept. 17, 1948. (Sec. 2f.)

RAPID POWER BOOSTER

Applicant claims ownership of Registration No. 409,433.
FOR PORTABLE POWER BELT CONVEYORS.
Claims use since June 26, 1939.

Ser. No. 566,969. CHAMBERSBURG ENGINEERING COMPANY, Chambersburg, Pa. Filed Oct. 14, 1948. (Sec. 2f.)

HIGH FRAME

Applicant claims ownership of Registration No. 254,755.
FOR POWER HAMMERS.
Claims use since Jan. 9, 1928.

Ser. No. 571,988. GEORGE M. PAYSON, doing business as Adpix, Millis, Mass. Filed Jan. 11, 1949.

ADPIX

FOR WOOD NOVELTIES IN THE FORM OF COCKTAIL PICKS, DRINK STIRRERS, ICE CREAM SPOONS, MUSTARD PADDLES.
Claims use since July 1918.

Ser. No. 574,400. THE YODER COMPANY, Cleveland, Ohio. Filed Feb. 23, 1949. (Sec. 2f.)

YODER

FOR TUBE FORMING MILLS, CUT-OFF MACHINES, PRESS-TYPE CUT-OFF MACHINES, AUTOMATIC FLYING CUT-OFF MACHINES, SLITTING MACHINES, METAL TRIMMING MACHINES, GANG SLITTING MACHINES; AUTOMATIC, UNITARY METAL FEEDING, FORMING, WELDING AND CUT-OFF APPARATUS; SCRAP CUTTING MACHINES, PUNCHING MACHINES, STRAIGHTENING AND SIZING MACHINES, METAL LEVELING MACHINES, SHEET METAL COILING AND UNCOILING MACHINES, SHAPING AND ROLLING MACHINES, POWER DRIVEN SAWS, ROLL GRINDING MACHINES, POWER OPERATED HAMMERS, BURR REMOVING TOOLS, SHEAR TYPE CUTTING MACHINES, SHEET METAL EDGE CONDITIONING AND TRIMMING MACHINES, CONTINUOUS MATERIAL MIXING MACHINES, BATCH MATERIAL MIXING MACHINES, METAL STRIP BENDING AND SHAPING MACHINES, SHEET METAL EMBOSSING MACHINES, MACHINES FOR ROLLING STRUCTURAL MEMBERS, MACHINES FOR BENDING METAL STRIPS INTO RING AND SPIRAL SHAPE, MACHINES FOR WINDING BURRS.
Claims use since 1913.

Ser. No. 574,769. ROSE GRINGER, doing business as Ultra Manufacturing Co., New York, N. Y. Filed Mar. 2, 1949. (Sec. 2f.)

ALLWAY

Applicant claims ownership of Registration No. 357,372.
FOR SAWS INCLUDING SAW BLADES AND HANDLES.
Claims use since Feb. 6, 1936.

Ser. No. 577,768. AIRCRAFT-MARINE PRODUCTS INC., Harrisburg, Pa. Filed Apr. 27, 1949.

Plasti-STOP

The word "Stop" is disclaimed.
FOR SELF-ALIGNING TERMINAL STOP FOR USE WITH CRIMPING TOOLS FOR INSULATING ELECTRICAL TERMINALS.
Claims use since Dec. 10, 1948.

Ser. No. 578,380. ELKHART BRASS MANUFACTURING COMPANY, INC., Elkhart, Ind. Filed May 7, 1949.

ELK HART

Applicant claims ownership of Registration No. 122,869.
FOR PORTABLE FIRE EXTINGUISHERS.
Claims use since March 1915.

Ser. No. 578,671. ADVANCE MACHINE CO., Chicago, Ill. Filed May 12, 1949.

AMCO

FOR VENDING MACHINES.
Claims use since 1922.

Ser. No. 579,529. CHAS. D. BRIDDELL, INC., Crisfield, Md. Filed May 26, 1949. (Sec. 2f as to "Briddell.")

Briddell

Applicant claims ownership of Registrations Nos. 417,188 and 507,753.
FOR MACHETES.
Claims use since May 31, 1945.

Ser. No. 580,735. MONOGRAM MANUFACTURING COMPANY, Los Angeles, Calif. Filed June 18, 1949.

3 H

FOR SHEET METAL CLAMPS FOR HOLDING SHEETS OF METAL IN POSITION WHILE SAME ARE BEING RIVETED AND HAND TOOLS IN THE NATURE OF PLIERS FOR APPLYING THE CLAMPS.
Claims use since Aug. 1, 1941.

Ser. No. 581,976. STEPHEN ARTHUR PAOLI, Rockford, Ill. Filed July 14, 1949.

ZIPOUT

FOR SHRIMP PEELER AND DE-VEINER IMPLEMENTS.
Claims use since May 3, 1949.

Ser. No. 583,355. MCGILL MANUFACTURING COMPANY, INC., Valparaiso, Ind. Filed Aug. 11, 1949. (Sec. 2f.)

McGILL

FOR PORTABLE HAND TOOLS FOR THE INSERTION OR REMOVAL OF ELECTRIC LIGHT BULBS.
Claims use since July 1913.

Ser. No. 583,792. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif. Filed Aug. 22, 1949.

Sunkist

FOR HAND-OPERATED MECHANICAL LEMON SECTIONIZERS.
Claims use since July 18, 1949.

Ser. No. 587,637. LEAR, INCORPORATED, Grand Rapids, Mich. Filed Nov. 10, 1949.

Romec

Applicant claims ownership of Registration No. 193,409.
FOR NON-SELF-MEASURING HAND-OPERATED FLUID PUMPS, VACUUM PUMPS, POWER DRIVEN ROTARY POSITIVE DISPLACEMENT PUMPS, PRESSURE REGULATING VALVES AND SELECTOR VALVES WHEN FURNISHED INTEGRALLY WITH SAID PUMPS.
Claims use since 1920.

Ser. No. 589,061. AMERICAN TRACTOR CORPORATION, New York, N. Y. Filed Dec. 9, 1949.

TERRATRAC

FOR TRACTORS.
Claims use since June 10, 1949.

Ser. No. 590,929. DEERE & COMPANY, Moline, Ill. Filed Jan. 16, 1950.

PLANTROL

FOR TRANSPLANTING MACHINES.
Claims use since Nov. 2, 1946.

Ser. No. 593,515. KEARNEY & TRECKER CORPORATION, West Allis, Wis. Filed Mar. 3, 1950. (Sec. 2f.)

KEARNEY & TRECKER

Applicant claims ownership of Registration No. 394,864.
FOR MACHINE TOOLS.
Claims use since 1898.

Ser. No. 593,516. KEARNEY & TRECKER CORPORATION, West Allis, Wis. Filed Mar. 3, 1950. (Sec. 2f.)

MILWAUKEE

Applicant claims ownership of Registration No. 394,865.
FOR MACHINE TOOLS.
Claims use since 1899.

Ser. No. 593,986. HAMMOND RESEARCH CORPORATION, Gloucester, Mass. Filed Mar. 15, 1950.

Magnetop

FOR BOTTLE OPENERS FOR USE ON CROWN CAPS.
Claims use since Jan. 7, 1950.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 545,934. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 2, 1948.

No claim is made to the words "Hour Saving Appliances" nor to the representation of the goods. Applicant claims ownership of Registrations Nos. 227,091 and 261,175.
FOR CLOTHES WASHING MACHINES AND PARTS THEREOF, AND IRONING MACHINES AND PARTS THEREOF.
Claims use since Oct. 26, 1947.

Ser. No. 576,245. ALD, INC., Chicago, Ill. Filed Mar. 29, 1949.

ALDRY

FOR LAUNDRY DRIERS.
Claims use since Apr. 21, 1948.

Ser. No. 578,110. TEXTILE MILLS COMPANY, Chicago, Ill. Filed May 2, 1949.

Homepride

FOR IRONING BOARD PADS AND IRONING BOARD COVERS.
Claims use since Apr. 22, 1949.

Ser. No. 589,076. DAVIS SPECIALTIES INCORPORATED, Chicago, Ill. Filed Dec. 9, 1949. (Sec. 2f.)

RAY

FOR PRESS PLATES AND PADS FOR PRESSING CLOTHES.
Claims use since 1932.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 574,229. HAYFORD ASSOCIATES, Paterson, N. J. Filed Feb. 21, 1949.

Moist-O-Matic

FOR ELECTRICALLY OPERATED REGULATOR RESPONSIVE TO MOISTURE CONTENT OF A MATERIAL TO REGULATE OR CONTROL THE OPERATION OF A MATERIAL-DRYING MACHINE.
Claims use since May 15, 1948.

Ser. No. 577,412. WESTON ELECTRICAL INSTRUMENT CORPORATION, Newark, N. J. Filed Apr. 19, 1949.

INDUCTRONIC

FOR INDICATING, INTEGRATING, RECORDING, AND CONTROLLING INSTRUMENTS OF THE POTENTIOMETRIC AND WHEATSTONE BRIDGE TYPES FOR PHYSICAL QUANTITIES AND CONDITIONS SUCH AS TEMPERATURE, PRESSURE, POTENTIAL, LIGHT, AND THE LIKE, WHICH ARE VARIABLE WITH TIME.
Claims use since Jan. 27, 1949.

Ser. No. 592,327. LENNOX METAL MANUFACTURING COMPANY, INC., New York and Maspeth, N. Y. Filed Feb. 11, 1950.

THE GOLDEN RULE

The words "The" and "Rule" are disclaimed.
FOR RULERS.
Claims use since January 1950.

Ser. No. 593,998. RAND TEXTILE DEVELOPMENT CORP., Cleveland, Ohio. Filed Mar. 15, 1950.

POROPHOROMETER

FOR APPARATUS FOR TESTING THE RATIO OF THE VOLUME OF INTERSTICES OF A TEXTILE FABRIC MATERIAL TO THE VOLUME OF ITS MASS.
Claims use since Feb. 7, 1950.

Ser. No. 594,046. ILFORD, LIMITED, Ilford, England. Filed Mar. 16, 1950.

VERACOL

Applicant claims ownership of British Registration No. 635,526, dated Mar. 6, 1945.
FOR FILMS AND PLATES FOR COLOUR PHOTOGRAPHY.

Ser. No. 594,309. CHEMCO PHOTOPRODUCTS COMPANY, INC., Glen Cove, N. Y. Filed Mar. 21, 1950.

POWERDOT

FOR SENSITIZED PHOTOGRAPHIC MATERIAL—NAMELY, STRIP-FILM FOR PHOTOENGRAVING AND OTHER PHOTOMECHANICAL USES.
Claims use since Feb. 27, 1950.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 592,680. FRATERNITY OF PHI GAMMA DELTA, Washington, D. C. Filed Feb. 3, 1950.

Φ. Γ. Δ.

Applicant claims ownership of Registration No. 246,758.
FOR JEWELRY FOR PERSONAL WEAR CONSISTING OF FRATERNITY PINS AND BADGES MADE OF OR PLATED WITH PRECIOUS METALS AND ENAMEL.
Claims use since 1848.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 563,715. BAY STATE OPTICAL COMPANY, Attleboro, Mass. Filed Aug. 19, 1948.

GOF-KLOTH

The word "Kloth" is disclaimed.
FOR CHEMICALLY TREATED CLOTHS FOR USE ON LENSES TO PREVENT THE FOG FROM COMING THEREON.
Claims use since July 26, 1948.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 590,805. EVELYN L. ROBERTS, Beverly Farms, Mass. Filed May 3, 1950.

Evie

FOR CROCKERY AND PORCELAINWARE—NAMELY, PLATES, DISHES, AND CASSEROLES.
Claims use since Feb. 14, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 560,852. WINKLER-MORGANTHALER, INC., Philadelphia, Pa. Filed July 7, 1948. (Sec. 2f.)

WINKLER

FOR ELECTRICALLY OPERATED COMMERCIAL AND INDUSTRIAL REFRIGERATION.
Claims use since 1918.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 505,745. FARIES MANUFACTURING COMPANY, Decatur, Ill., assignor to Faries Manufacturing Company, Chicago, Ill., a corporation of Illinois (a new corporation). Original filed, act of 1905, July 17, 1946; amended to application under act of 1946, Principal Register, June 9, 1948.

FOR BATHROOM CABINETS, WALL MIRRORS, AND COSMETIC SETS CONSISTING OF BENCH, TABLE, AND MIRROR.
Claims use since Mar. 19, 1946.

Ser. No. 544,064. DECORATIVE CABINET CORP., doing business under the name and style of E-Z-Do, New York, N. Y. Filed Dec. 11, 1947.

nu-look

The word "Nu" is disclaimed.
FOR FURNITURE — NAMELY, WARDROBES, CHESTS FABRICATED OF CARDBOARD AND SIMILAR LAMINATED PAPER.
Claims use since Oct. 27, 1947.

Ser. No. 557,223. SUPERIOR SLEEPRITE CORPORATION, Chicago, Ill., assignor to American Furniture Company, Batesville, Ind. Filed May 17, 1948.

Viking

Applicant claims ownership of Registration No. 243,133.
FOR DESKS, CHESTS OF DRAWERS, WOOD CHAIRS, WOOD TABLES, WOOD DINING FURNITURE, UPHOLSTERED AND NON-UPHOLSTERED, CABINETS FOR HOUSEHOLD USE (BREAKFRONT CABINETS), BEDS AND BUNK BEDS, VANITIES, NIGHT STANDS, AND COMBINATION BED AND CHEST.
Claims use since Jan. 1, 1907.

Ser. No. 562,603. EDWARD L. BERGMAN, doing business as Party Top Co., Los Angeles, Calif. Filed July 31, 1948.

THE PARTY TOP

The word "Top" is disclaimed.
FOR REMOVABLE TOPS ADAPTED TO BE DETACHABLY MOUNTED ON TABLES, SUCH AS CARD TABLES, DINING TABLES, AND THE LIKE.
Claims use since June 5, 1947.

Ser. No. 563,252. ARTHUR P. HURLEY, doing business as A. P. Hurley Co., Boise, Idaho. Filed Aug. 12, 1948.

SANI-CABINET

The word "Cabinet" is disclaimed.
FOR STORAGE CABINETS FOR USE IN BATHROOMS.
Claims use since Mar. 15, 1948.

Ser. No. 563,837. AMERICAN LATEX PRODUCTS CORP., Los Angeles, Calif. Filed Aug. 23, 1948.

FOAM

The word "Foam" is disclaimed.
FOR OFFICE CHAIR CUSHIONS.
Claims use since Nov. 15, 1947.

Ser. No. 568,692. TREITEL-GRATZ CO., INC., New York, N. Y. Filed Nov. 12, 1948.

ALUMA-STACK

No registration rights are claimed for the word "Stack."
FOR LIGHT-WEIGHT METAL-FRAME CHAIRS.
Claims use since May 15, 1948.

Ser. No. 572,062. SHERMAN UPHOLSTERY CO., Springfield, Mass. Original filed, act of 1946, Supplemental Register, Jan. 12, 1949; amended to application, Principal Register, Feb. 24, 1950.

Londonderry LOUNGE

The word "Lounge" is disclaimed.
FOR UPHOLSTERED SOFAS, DIVANS, LOVE SEATS, FOOTSTOOLS, AND CHAIRS.
Claims use since Jan. 1, 1948.

Ser. No. 574,379. PULLMAN COUCH COMPANY, Chicago, Ill. Filed Feb. 23, 1949.

SPRING FLOAT

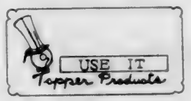
The word "Spring" is disclaimed.
FOR UPHOLSTERED CHAIRS OF THE OVERSTUFFED TYPE.
Claims use since Oct. 25, 1948.

Ser. No. 574,709. JOANNA WESTERN MILLS COMPANY, Chicago, Ill. Filed Mar. 1, 1949.

Kwali-kraft

"Kraft" is disclaimed.
FOR WINDOW SHADES MADE FROM CELLULOSE FIBRE MATERIAL.
Claims use since Apr. 1, 1948.

Ser. No. 584,384. BRIDGE TABLES AND NOVELTIES, INC., Lowell, Mass. Filed Sept. 2, 1949.



The word "Products" is disclaimed. Applicant claims ownership of Registration No. 361,650.
FOR COFFEE TABLES, BRIDGE TABLES, UTILITY TABLES, TILT-TOP TABLES, AND FOLDING TABLES.
Claims use since June 25, 1949.

Ser. No. 586,980. MELL-HOFFMANN MFG. CO., Chicago, Ill. Filed Oct. 28, 1949.

TOTE-TABLE

No claim is made to the word "Table."
FOR PORTABLE TABLES IN THE NATURE OF FURNITURE.
Claims use since Oct. 13, 1949.

Ser. No. 588,886. PULLMAN COUCH COMPANY, Chicago, Ill. Filed Dec. 6, 1949.

Pullmanaire

Applicant claims ownership of Registrations Nos. 372,686 and 508,177.
FOR UPHOLSTERED CHAIRS IN THE NATURE OF FURNITURE.
Claims use since Oct. 25, 1948.

Ser. No. 588,998. DOIN KWON, Honolulu, Territory of Hawaii. Filed Nov. 22, 1949.

"Poinciana"

Applicant claims ownership of Registration No. 398,485.
FOR INTERIOR BAMBOO CURTAINS.
Claims use since August 1940.

Ser. No. 589,694. FOOD-O-MAT CORPORATION, New York, N. Y. Filed Oct. 17, 1949.

DRUG-O-MAT

The word "Drug" is disclaimed.
FOR DISPLAY, SALES, AND STORAGE STANDS, FOR ARTICLES OF VARIOUS KINDS.
Claims use since Mar. 4, 1949.

Ser. No. 590,040. THE STEARNS & FOSTER COMPANY, Lockland, Cincinnati, Ohio. Filed Dec. 28, 1949.

Foam Crest

The word "Foam" is disclaimed.
FOR MATTRESSES.
Claims use since 1940.

Ser. No. 591,374. MODERN VENETIAN BLINDS, INC., New York, N. Y. Filed Jan. 24, 1950.

Aladdin

FOR VENETIAN BLINDS AND SLATS FOR VENETIAN BLINDS.
Claims use since Jan. 3, 1950.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 580,410. JAMES F. JARRELL, JR., doing business as Jarrell Distributors, Dallas, Tex. Filed June 14, 1947.

JARRELL Distributors

VENT-A-MATIC

The words "Jarrell" and "Distributors" are disclaimed.
FOR HOOD TO BE PLACED OVER A KITCHEN RANGE, WITH AN EXHAUST FAN BUILT THEREIN, FOR PURPOSES OF REMOVING SMOKE AND FUMES FROM THE RANGE AND FOR PURPOSES OF VENTILATING THE ROOM WHEREIN THE RANGE IS LOCATED.
Claims use since Feb. 26, 1949.

Ser. No. 594,491. PRESSURE PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 23, 1950.

PREPO TORCH

The word "Torch" and the representation of the goods are disclaimed.
FOR SMALL PORTABLE GAS BURNERS—NAMELY, BRAZING, SOLDERING, AND WELDING TORCHES.
Claims use since Nov. 25, 1949.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 547,216. AMERICAN BRAKE SHOE COMPANY, New York, N. Y. Filed Jan. 16, 1948. (Sec. 2f.)

AMERICAN BRAKEBLOK

Applicant claims ownership of Registrations Nos. 270,256, 296,390, 351,016, 351,017, etc.
FOR RUBBER FAN BELTS, RADIATOR HOSE, AND GENERATOR COUPLINGS.
Claims use since Sept. 1, 1934.

Ser. No. 573,538. FLEXIBOX LIMITED, Manchester, England. Filed Feb. 9, 1949.

FLEXIBOX

Applicant claims ownership of British Registration No. 654,166, dated Nov. 29, 1946.
FOR JOINT PACKINGS.

Ser. No. 578,464. PIONEER RUBBER MILLS, San Francisco, Calif. Filed May 9, 1949.

GOLDEN STATE

Applicant claims ownership of Registration No. 411,651.
FOR FIRE HOSE.
Claims use since Mar. 11, 1931.

Ser. No. 594,104. THE DAYTON RUBBER COMPANY, Dayton, Ohio. Filed Mar. 17, 1950.

ROAD KING

FOR RADIATOR HOSE AND V TYPE BELTS.
Claims use since Feb. 10, 1949.

Ser. No. 595,608. AEROQUIP CORPORATION, Jackson, Mich. Filed Apr. 14, 1950.

AEROQUIP

Applicant claims ownership of Registration No. 402,052.
FOR HOSE FOR HIGH, LOW AND MEDIUM PRESSURE FLUID INCLUDING WATER, STEAM, AIR, GASOLINE, OIL, FUEL, BEVERAGES, REFRIGERANTS, AND COOLANTS.
Claims use since Sept. 21, 1946.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 562,091. SORKIN MUSIC COMPANY INC., New York, N. Y. Filed July 23, 1948.

Revere

The representation of the musical instrument is disclaimed.
FOR BAND INSTRUMENTS—NAMELY, TRUMPETS, CORNETS, TROMBONES, ALTO HORNS, MELLOPHONES, FRENCH HORNS, BARITONE HORNS, BASS HORNS, AND SOUSAPHONES AND MOUTHPIECES THEREFOR; WOODWIND INSTRUMENTS—NAMELY, CLARINETS, SAXOPHONES, PICCOLOS, FLUTES, OBOES, ENGLISH HORNS, AND BASSOONS AND MOUTHPIECES, MOUTHPIECE CAPS, AND LIGATURES THEREFOR; AND DRUMS AND DRUM ACCESSORIES—NAMELY, DRUM COVERS, DRUM STICKS, DRUM SPURS; TAMBOURINES, TRIANGLES, AND MARACAS.
Claims use since Oct. 23, 1947.

Ser. No. 576,911. GOLD LEAF RECORD COMPANY, Salt Lake City, Utah. Filed Apr. 11, 1949.

GOLD LEAF RECORDS

The drawing is lined for the color gold. The word "Records" is disclaimed.
FOR GROOVED PHONOGRAPH RECORDS.
Claims use since Mar. 10, 1949.

Ser. No. 582,569. MAURICE LIPSKY MUSIC COMPANY, New York, N. Y. Filed July 27, 1949.

Elettra

FOR ACCORDIONS.
Claims use since June 17, 1948.

CLASS 37

PAPER AND STATIONERY

Ser. No. 503,222. EDWARD C. PRENZEL, doing business as Prenzel System Company, Demopolis, Ala. Original filed, act of 1905, June 3, 1946; amended to application under act of 1946, Principal Register, Oct. 14, 1947. (Sec. 2f.)

The PRENZEL "5 in 1" SYSTEM

FOR PARTIALLY PRINTED BOOKKEEPING FORMS.
Claims use since June 15, 1934.

Ser. No. 515,120. LEE PAPER COMPANY, Vicksburg, Mich. Original filed, act of 1905, Dec. 31, 1946; amended to application under act of 1946, Principal Register, Apr. 21, 1948. (Sec. 2f as to "Lee.")

Lee Light Bristol

The words "Light Bristol" are disclaimed. Applicant claims ownership of Registrations Nos. 368,172 and 401,307.
FOR LIGHT-WEIGHT, SMOOTH-FINISHED, RAG-CONTENT CARD STOCK.
Claims use since 1928 as to "Lee"; and since Dec. 29, 1945, as to the mark as shown.

Ser. No. 519,683. MONTAG BROTHERS, INC., Atlanta, Ga. Original filed, act of 1920, Mar. 27, 1947; amended to application under act of 1946, Principal Register, Nov. 29, 1947. (Sec. 2f.)

MONTAG'S Shurlite MARYLAND

The word "Laid" is disclaimed.
FOR WRITING PAPER.
Claims use since 1935.

Ser. No. 527,917. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa. Filed July 5, 1947.

Skrip

Applicant claims ownership of Registration No. 142,760.
FOR WRITING SETS CONSISTING OF WRITING FLUIDS, RESERVOIRS FOR WRITING FLUIDS AND DIP PENS, SOLD IN SETS.
Claims use since 1920.

Ser. No. 533,995. CHEMICAL PAPER MANUFACTURING COMPANY, Holyoke, Mass. Filed Sept. 10, 1947. (Sec. 2f.)

SHEERLEAF

FOR WRITING AND PRINTING PAPER.
Claims use since Jan. 1, 1926.

Ser. No. 540,866. THOMAS W. PEARCE, Greenville, Del. Filed Nov. 12, 1947.

Ledgerless

FOR PRINTED INSTRUCTION SHEETS AND BOOKKEEPING FORMS BEARING INSTRUCTIONS, THAT ARE SOLD AS A UNIT AND USED IN A PARTICULAR SYSTEM OF ACCOUNTING.
Claims use since Nov. 7, 1947.

Ser. No. 553,475. DENNISON MANUFACTURING COMPANY, Framingham, Mass. Filed Mar. 31, 1948. (Sec. 2f.)

NON-BLOCKING

FOR GUMMED PAPER IN SHEET FORM.
Claims use since Oct. 1, 1922.

Ser. No. 555,863. BRADNER SMITH & COMPANY, Chicago, Ill. Filed Aug. 28, 1947.

Broadcast Bond

The word "Bond" is disclaimed. Applicant claims ownership of Registrations Nos. 276,164 and 328,093.
FOR BOND PAPER.
Claims use since Apr. 24, 1923.

Ser. No. 565,339. HOBERG PAPER MILLS, INC., Green Bay, Wis. Filed Sept. 17, 1948. (Sec. 2f.)

Hoberg

FOR PAPER TOWELS, PAPER NAPKINS, TOILET TISSUE, AND PAPER KITCHEN TOWELS.
Claims use since 1892 on the name "Hoberg"; and since Apr. 2, 1948, in the form shown.

Ser. No. 568,987. ELLEN WILLIAMSON, Princeton, N. J. Filed Nov. 17, 1948.

BETTER MOUSETRAP

FOR WRITING PAPER, NOTE-PAPER, CORRESPONDENCE ENVELOPES, PARTIALLY PRINTED LABELS, MEMORANDUM PADS, PARTIALLY PRINTED POSTCARDS, AND PARTIALLY PRINTED BLANKS FOR ORDERING AND RETURNING MERCHANDISE.
Claims use since July 12, 1948.

Ser. No. 576,827. STAR-PEERLESS WALL PAPER MILLS, Chicago, Ill. Filed Apr. 8, 1949.

Zephyr

FOR WALL PAPER.
Claims use since July 1, 1939.

Ser. No. 586,295. McLAURIN-JONES CO., Brookfield, Mass. Filed Oct. 14, 1949.

Applicant claims ownership of Registration No. 77,543.
FOR GUMMED PAPER IN SHEET FORM.
Claims use since Jan. 1, 1907.

Ser. No. 588,716. ZEPHYR AMERICAN CORPORATION, New York, N. Y. Filed Oct. 22, 1949.

Listik

FOR ADDRESS AND PHONE INDEXES.
Claims use since Sept. 28, 1949.

Ser. No. 588,289. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed Nov. 25, 1949.

Lustre

Applicant claims ownership of Registration No. 365,878.
FOR TOILET TISSUE.
Claims use since Jan. 23, 1947.

Ser. No. 589,739. PROFESSIONAL PRINTING COMPANY, INC., Brooklyn, N. Y. Filed Dec. 21, 1949.

Lettervelope

FOR PARTIALLY PRINTED BLANK FORMS.
Claims use since Dec. 1, 1949.

Ser. No. 589,775. DOESKIN PRODUCTS, INC., New York, N. Y. Filed Dec. 22, 1949.

Dottie Doe

The name "Dottie Doe" is fanciful. Applicant claims ownership of Registrations Nos. 415,722 and 509,697.
FOR CLEANSING TISSUES.
Claims use since Dec. 13, 1949.

Ser. No. 590,474. WALTER B. WILSON, JR., Miami Beach, Fla. Filed Jan. 6, 1950.

PROTEXALL

FOR MEDICAL PRESCRIPTION BLANK FORMS.
Claims use since Oct. 15, 1949.

Ser. No. 590,498. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Jan. 7, 1950.

COLIMAC

FOR COLORED PENCILS AND COLORED LEAD.
Claims use since Nov. 17, 1949.

Ser. No. 590,823. NASHUA GUMMED AND COATED PAPER COMPANY, Nashua, N. H. Filed Jan. 13, 1950.

ENAMALOCK

FOR WAXED PAPER, CHIEFLY USED FOR WRAPPERS.
Claims use since Dec. 22, 1949.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 541,814. COMPLETE SERVICE PUBLISHING COMPANY, Chicago, Ill. Filed Nov. 20, 1947. (Sec. 2f.)

The CONCRETE MANUFACTURER

FOR MAGAZINE ALSO ISSUED SEPARATELY AS A PERIODICAL PUBLICATION.
Claims use since July 1939.

Ser. No. 559,761. WESTERN AIR LINES, INC., Los Angeles and Los Angeles Airport, Calif. Filed Jan. 19, 1948.

Applicant claims ownership of Registration No. 513,869.
FOR PUBLICATIONS ISSUED FROM TIME TO TIME, SUCH AS POCKET CALENDARS, BOOKLETS, AND PAMPHLETS.
Claims use since 1926.

Ser. No. 564,087. A. B. C. PUBLICATIONS, INC., New York, N. Y. Filed Aug. 25, 1948.

Revista SEMANAL

The words "Revista Semanal" are disclaimed.
FOR PUBLICATION PUBLISHED WEEKLY.
Claims use since July 12, 1948.

Ser. No. 568,703. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa. Filed Nov. 13, 1948.

HORMONE-TONES

Applicant claims ownership of Registrations Nos. 376,898, 361,881, 402,770, and 378,255.
FOR HOUSE ORGAN.
Claims use since December 1942.

Ser. No. 569,741. BOOK AGENTS OF THE METHODIST EPISCOPAL CHURCH, SOUTH, Nashville, Tenn. Filed Dec. 2, 1948.

PARTHENON

Applicant claims ownership of Registration No. 293,047.
FOR PERIODICAL PUBLICATIONS AND FOR PUBLICATIONS ISSUED FROM TIME TO TIME.
Claims use since Feb. 15, 1931.

Ser. No. 580,608. MANSFIELD SANITARY POTTERY, INC., Perrysville, Ohio. Filed June 16, 1949.

Pottery Progress

No claim is made to the word "Pottery."
FOR PERIODICAL ISSUED FROM TIME TO TIME THROUGHOUT THE YEAR.
Claims use since February 1945.

Ser. No. 590,617. NORCROSS, INC., New York, N. Y. Filed Jan. 10, 1950.

SOUND EFFECT

FOR GREETING CARDS, PRINTED GREETING FOLDERS, PRINTED SEALS, AND PRINTED DECORATIVE TAGS.
Claims use since Dec. 20, 1949.

Ser. No. 591,021. SONDRA DAVIDSON, Perth Amboy, N. J. Filed Jan. 18, 1950.

From Where I Sit
. . it's PRETTY PENNY

FOR NEWSPAPER COLUMN PUBLISHED PERIODICALLY.
Claims use since Nov. 9, 1949.

Ser. No. 591,362. EQUIPMENT DIGEST PUBLISHING COMPANY, Cleveland, Ohio. Filed Jan. 24, 1950. (Sec. 2f.)

NEW EQUIPMENT DIGEST

Applicant claims ownership of Registrations Nos. 363,133 and 509,334.
FOR PUBLICATION PUBLISHED MONTHLY OR FROM TIME TO TIME, THE SUBJECT MATTER OF WHICH IS DIRECTED TO EQUIPMENT, IMPROVEMENTS, PROCESSES, MATERIALS, METHODS, APPLICATIONS, AND LITERATURE.
Claims use since June 13, 1938.

CLASS 39
CLOTHING

Ser. No. 510,368. TIMELY ACCESSORIES, INC., New York, N. Y. Original filed, act of 1905, Oct. 5, 1946; amended to application under act of 1946, Supplemental Register, Mar. 15, 1949; amended to Principal Register, June 21, 1950.

"TEENA BROWN"

The name "Teena Brown" is fanciful.
FOR COLLARS AND CUFFS FOR DRESSES AND SWEATERS.
Claims use since Aug. 29, 1946.

Ser. No. 519,901. THE SERVUS RUBBER COMPANY, Rock Island, Ill. Original filed, act of 1905, Mar. 31, 1947; amended to application under act of 1946, Principal Register, Jan. 29, 1948. (Sec. 2f.)

SERVUS SNAG-PROOF

Applicant claims ownership of Registrations Nos. 14,113 and 183,401.
FOR RUBBER BOOTS AND SHOES.
Claims use since Jan. 15, 1939.

Ser. No. 519,902. THE SERVUS RUBBER COMPANY, Rock Island, Ill. Original filed, act of 1905, Mar. 31, 1947; amended to application under act of 1946, Principal Register, Jan. 29, 1948. (Sec. 2f.)

SERVUS SNAG-PROOF

Applicant claims ownership of Registrations Nos. 14,113 and 183,401.
FOR RUBBER BOOTS AND SHOES.
Claims use since Jan. 15, 1939.

Ser. No. 535,843. HICKOK MANUFACTURING CO. INC., Rochester, N. Y. Filed Sept. 26, 1947. (Sec. 2f.)

STYLE LEADERSHIP

FOR BRACES, AND GARTERS MADE WHOLLY OR IN PART FROM LEATHER.
Claims use since June 1931.

Ser. No. 540,819. THE IRVING DREW CORPORATION, Lancaster, Ohio. Filed Nov. 12, 1947. (Sec. 2f as to "Drew.")

The words "Shoes," "Style-In-Comfort," and "Welts" are disclaimed. The representation of an individual is fanciful. Applicant claims ownership of Registrations Nos. 190,674 and 343,087.

FOR SHOES MADE OF LEATHER, LEATHER AND FABRIC, AND THE COMBINATION OF LEATHER, RUBBER, AND FABRIC.

Claims use since 1878 as to "Drew"; and since 1942 as shown.

Ser. No. 542,116. HERBERT L. GORDON, New York, N. Y. Filed Nov. 24, 1947. (Sec. 2f.)

TRIPLE-WEAR

FOR HOSIERY.

Claims use since March 1930.

Ser. No. 550,052. LUBIN-WEEKER CO., INC., New York, N. Y. Filed Feb. 18, 1948. (Sec. 2f.)

RAY-TUCK

The word "Tuck" is disclaimed. Applicant claims ownership of Registration No. 358,409.

FOR MEN'S PAJAMAS.

Claims use since Dec. 2, 1937.

Ser. No. 550,053. LUBIN-WEEKER CO., INC., New York, N. Y. Filed Feb. 18, 1948. (Sec. 2f.)

SOUTHER-KNIT

The word "Kit" is disclaimed. Applicant claims ownership of Registration No. 392,481.

FOR MEN'S PAJAMAS.

Claims use since Dec. 18, 1940.

Ser. No. 550,420. LIVINGSTON & LIVINGSTON, New York, N. Y. Filed Feb. 24, 1948.

FUN CLOTHES

No claim is made to the word "Clothes."

FOR WOMEN'S AND MISSES' BLOUSES, DRESSES, SHIRTS, SKIRTS, CULOTTES, AND PLAY SUITS.

Claims use since June 1937.

Ser. No. 552,884. SKYKNIT PRODUCTS, INC., New York, N. Y. Filed Mar. 24, 1948.

SKYKNIT

FOR SOCKS, UNDERWEAR, HOSIERY, SWEATERS, AND ATHLETIC SHIRTS.

Claims use since Mar. 14, 1947.

Ser. No. 556,805. MARLBORO SHIRT COMPANY, INC., Baltimore, Md. Filed May 11, 1948. (Sec. 2f.)

WESTBURY

Applicant claims ownership of Registration No. 332,855.

FOR MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS.

Claims use since January 1932.

Ser. No. 557,530. KAYLON INCORPORATED, New York, N. Y. Filed May 21, 1948.

TommieRobe

The word "Robe" is disclaimed. Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.

FOR PAJAMAS, PAJAMA COATS, BEACH COATS, SMOCK COATS, UTILITY COATS, AND BATH ROBES FOR MEN, WOMEN, AND CHILDREN.

Claims use since February 1943.

Ser. No. 560,988. COMMERCIAL SHIRT CORP., New York, N. Y. Filed July 9, 1948.

Unifold

FOR OUTER SHIRTS AND COLLARS FOR MEN AND BOYS.

Claims use since June 10, 1948.

Ser. No. 561,589. THE PURITAN KNITTING MILLS, INC., Altoona, Pa. Filed July 16, 1948.

INTERLACHEN

Applicant claims ownership of Registration No. 433,407.

FOR WEARING APPAREL FOR MEN AND BOYS—NAMELY, SWEATERS, JACKETS, OUTER WEAR SHIRTS, BATHING SUITS, SWIMMING TRUNKS, SLACKS, SPORT COATS, AND T-SHIRTS.

Claims use since June 4, 1940.

Ser. No. 564,872. HAGGAR COMPANY, Dallas, Tex. Filed Sept. 9, 1948.

SLACK-PAK

The word "Slack" is disclaimed.

FOR MEN'S AND BOYS' TROUSERS AND SLACKS.

Claims use since Sept. 1, 1948.

Ser. No. 564,928. ROBERT BRUCE KNITWEAR COMPANY, Philadelphia, Pa. Filed Sept. 10, 1948.

Aquabat
Robert Bruce

"Robert Bruce" is the name of a famous historical character now deceased. Applicant claims ownership of Registration No. 338,418.

FOR BATHING SUITS.

Claims use since 1944.

Ser. No. 565,169. ROBERT BRUCE KNITWEAR COMPANY, Philadelphia, Pa. Filed Sept. 15, 1948.

Robert Bruce
Finegora

"Robert Bruce" is the name of a famous historical character now deceased. Applicant claims ownership of Registration No. 338,418.

FOR SWEATERS FOR MEN, BOYS, AND JUVENILES.

Claims use since 1936.

Ser. No. 565,538. ROBERT BRUCE KNITWEAR COMPANY, Philadelphia, Pa. Filed Sept. 21, 1948.

Robert Bruce
Regent

"Robert Bruce" is the name of a famous historical character now deceased. Applicant claims ownership of Registration No. 338,418.

FOR SWEATERS FOR MEN, BOYS, AND JUVENILES.

Claims use since Feb. 8, 1948.

Ser. No. 565,686. ROBERT BRUCE KNITWEAR COMPANY, Philadelphia, Pa. Filed Sept. 23, 1948.

Robert Bruce
"THE SOFTIE"

"Robert Bruce" is the name of a famous historical character now deceased. Applicant claims ownership of Registration No. 338,418.

FOR SWEATERS FOR MEN, BOYS, AND JUVENILES.

Claims use since 1938.

Ser. No. 566,914. THE ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Oct. 13, 1948.

Dov-Lee

FOR INFANTS' WEAR ITEMS—NAMELY, DIAPERS, ROBES, BUNTINGS, UNDERWEAR, SLEEPERS, HATS, HOSIERY, NIGHTGOWNS, SHOES.

Claims use since July 1, 1948.

Ser. No. 568,963. MCCRORY STORES CORPORATION, New York, N. Y. Filed Nov. 17, 1948.

The drawing is lined for the color blue. The portrait is fanciful. The words "Hosiery" and "McCrory Stores" are disclaimed. Applicant claims ownership of Registrations Nos. 196,431, 403,269, and 501,116.

FOR LADIES' HOSIERY.

Claims use since Jan. 17, 1933.

Ser. No. 571,787. RUBINA P. BARD, Pasadena, Calif. Filed Jan. 7, 1949.

Rubina's

FOR WOMEN'S AND CHILDREN'S DRESSES, SUITS, COATS, BLOUSES, LINGERIE, SLACKS, HOSIERY, HATS, AND MEN'S SUITS, TROUSERS, SLACKS, SHIRTS, UNDERWEAR, HOSIERY, AND HATS.

Claims use since Apr. 9, 1948.

Ser. No. 571,974. KAYLON INCORPORATED, New York, N. Y. Filed Jan. 11, 1949.

Tommietop

Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.

FOR WOMEN'S AND GIRLS' PAJAMAS, PAJAMA COATS, BEACH COATS, SMOCK COATS, UTILITY COATS, AND BATH ROBES.

Claims use since June 1945.

Ser. No. 571,975. KAYLON INCORPORATED, New York, N. Y. Filed Jan. 11, 1949.

Tommieskirt

Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.

FOR WOMEN'S PAJAMAS, PAJAMA COATS, BEACH COATS, SMOCK COATS, UTILITY COATS, AND BATH ROBES.

Claims use since Oct. 15, 1948.

Ser. No. 576,258. FORT SCHUYLER KNITTING COMPANY, Utica, N. Y. Filed Mar. 29, 1949.

DOUBLE PLAY

FOR MEN'S KNITTED UNDERWEAR AND T SHIRTS, KNITTED UNDERSHIRTS, AND POLO SHIRTS.
Claims use since Mar. 4, 1949.

Ser. No. 576,339. THE FRANK H. LEE COMPANY, Danbury, Conn. Filed Mar. 30, 1949.

The portrait of the individual shown on the drawing is fanciful. The representation of a hat is disclaimed.
FOR MEN'S AND WOMEN'S HATS AND CAPS.
Claims use since March 1946.

Ser. No. 578,098. MUTATION MINK BREEDERS ASSOCIATION, Elkhorn, Wis. Filed May 12, 1949. (Sec. 2f.)

SILVERBLU

Applicant claims ownership of Registrations Nos. 189,260, 415,719, and 415,720.
FOR FUR COATS.
Claims use since Mar. 11, 1924.

Ser. No. 579,384. EERSTE NEDERLANDSCHE DAMES-EN KINDERMANTELFABRIEK H. BERGHAUS N. V., Amsterdam, Netherlands. Filed May 23, 1949.

HB

STYLEFAIR

Applicant claims ownership of Dutch Registration No. 97,562, dated Mar. 2, 1949.
FOR LADIES', GIRLS', AND GENTLEMEN'S CLOTHING—NAMELY, COATS FOR SPRING AND FALL, TOPCOATS, RAINCOATS, SUITS, SKIRTS, SPORT TROUSERS, SPORT BREECHES, SPORT SKIRTS, SPORT JACKETS, AND PLUS-FOURS.

Ser. No. 580,020. R. H. MACY & CO., INC., New York, N. Y. Filed June 6, 1949.

Boy Gro

The word "Boy" is disclaimed. Applicant claims ownership of Registration No. 192,561.
FOR SHOES.
Claims use since Dec. 31, 1935.

Ser. No. 580,996. MALZONE SPORTS, INC., Union City, N. J. Filed June 24, 1949.

Speedline

FOR ATHLETIC CLOTHING—NAMELY, BASEBALL UNIFORMS, BASEBALL PANTS, BASKETBALL UNIFORMS, BASKETBALL JACKETS, GIRLS' BASKETBALL UNIFORMS, GIRLS' BASKETBALL JACKETS, SOFTBALL UNIFORMS, FOOTBALL UNIFORMS, MEN'S, BOYS', AND GIRLS' ATHLETIC AWARD JACKETS.
Claims use since June 1, 1947.

Ser. No. 581,473. DUALL UNDERWEAR CO., INC., New York, N. Y. Filed July 2, 1949.

Duall

FOR MEN'S AND BOYS' BRIEFS AND BOXER SHORTS.
Claims use since May 31, 1948.

Ser. No. 581,741. STERN'S ASTORIA, INC., New York and Astoria, N. Y. Filed July 9, 1949. (Sec. 2f.)

SHELBY.

FOR MEN'S AND BOYS' SUITS, TOP COATS, SPORT COATS, AND RAIN COATS.
Claims use since Jan. 5, 1933.

Ser. No. 582,135. JAMES F. KING, doing business as Somers Mountain Indian Trading Post, Somers, Conn. Filed July 18, 1949.

FOR INDIAN NOVELTIES—NAMELY, MOCCASINS, NECKTIES, HEAD DRESSES, AND GARMENT BELTS.
Claims use since Feb. 1, 1946.

Ser. No. 585,390. B. C. MOORE & SONS, INCORPORATED, Cheraw, S. C. Filed Sept. 27, 1949.

A Miss Becky hat

The descriptive word "Hat" is disclaimed.
FOR WOMEN'S HATS.
Claims use since Feb. 14, 1949.

Ser. No. 586,120. SURREY MANUFACTURERS, LTD., New York, N. Y. Filed Oct. 11, 1949.

"Surroyal"

FOR LADIES' COATS.
Claims use since July 15, 1949.

Ser. No. 586,272. FLY-TIES, INC., New York, N. Y. Filed Oct. 14, 1949.

FLY-TIES

The word "Ties" is disclaimed.
FOR NECKTIES.
Claims use since Aug. 29, 1948.

Ser. No. 586,413. JANTZEN KNITTING MILLS INC., Portland, Oreg. Filed Oct. 17, 1949.

WEBFOOT

Applicant claims ownership of Registrations Nos. 208,613 and 266,162.
FOR MEN'S, WOMEN'S, AND CHILDREN'S APPAREL—NAMELY, SWIMMING SUITS, SWIMMING TRUNKS, SWEATERS, JERSEYS, T SHIRTS, OUTER SHIRTS, SCARVES, GARMENT BELTS, GLOVES, MITTENS, SHOES, UNDERWEAR, TROUSERS, SLACKS, OUTER SHORTS, JACKETS, COATS, VESTS, HATS, CAPS, PLAY SUITS, SUN SUITS, PLAY DRESSES, OUTER SKIRTS, FOUNDATION GARMENTS, GIRDLES, AND BRASSIÈRES.
Claims use since Aug. 31, 1925.

Ser. No. 587,083. GOLDSTEIN MILLINERY COMPANY, Chicago, Ill. Filed Oct. 31, 1949.

Clarice Model

The word "Model" is disclaimed.
FOR LADIES', MISSES', AND CHILDREN'S HATS.
Claims use since Aug. 1, 1949.

Ser. No. 587,159. ROYAL ROBES, INC., New York, N. Y. Filed Oct. 14, 1949.

Stow-a-way

Applicant claims ownership of Registration No. 386,661.
FOR TRAVELING ROBE, BATH ROBE, AND BEACH ROBE.
Claims use since Mar. 20, 1940.

Ser. No. 587,852. CLUETT, PEABODY & CO. INC., Troy, N. Y. Filed Nov. 16, 1949. (Sec. 2f.)

CLARIDGE

Applicant claims ownership of Registration No. 270,265.
FOR NEGLIGEE AND DRESS SHIRTS.
Claims use since 1917.

Ser. No. 590,026. WALTER K. MARKS, INC., New York, N. Y. Filed Dec. 28, 1949.

Mirasheen

FOR LADIES' HATS.
Claims use since Dec. 14, 1949.

Ser. No. 590,534. THOMSON COMPANY, Thomson, Ga. Filed Jan. 7, 1950.

Plylon

FOR MEN'S AND BOYS' TROUSERS.
Claims use since Jan. 4, 1950.

Ser. No. 590,537. JACK WINTER, INC., Milwaukee, Wis. Filed Jan. 7, 1950.

WRINKLE FIGHTER

FOR MEN'S, WOMEN'S, BOYS', AND GIRLS' SLACKS.
Claims use since Mar. 18, 1949.

Ser. No. 590,988. OWEN-MORGAN, INC., New York, N. Y. Filed Jan. 17, 1950.

SORCERY

FOR WOMEN'S WEARING APPAREL—NAMELY, DRESSES AND SKIRTS.
Claims use since Apr. 26, 1948.

Ser. No. 593,483. GERDA FOOTWEAR CO., INC., New York, N. Y. Filed Mar. 6, 1950.

Chic-a-Saws

FOR MOCCASINS MADE OF LEATHER.
Claims use since Nov. 30, 1949.

Ser. No. 595,505. VICTOR LEBOW, New York, N. Y. Filed Apr. 10, 1950.

SNEEX

FOR COMBINATION SLIPPER AND SOCK.
Claims use since Apr. 3, 1950.

Ser. No. 595,526. ALL-STATE GARMENT CORPORATION, New York, N. Y. Filed Apr. 11, 1950.

THE "365" SUIT

The word "Suit" is disclaimed.
FOR WOMEN'S SUITS.
Claims use since Feb. 2, 1950.

Ser. No. 596,095. HUSSCO SHOE COMPANY, Honesdale, Pa. Filed Apr. 21, 1950.

Huskie Pups

Applicant claims ownership of Registrations Nos. 330,059 and 442,600.
FOR MOCCASINS.
Claims use since Mar. 17, 1950.

Ser. No. 596,127. SPIEGEL, INC., Chicago, Ill. Filed Apr. 21, 1950.

Bonny Gay Walkers

The name "Bonny Gay" is fanciful. The term "Walkers" is disclaimed.
FOR WOMEN'S SHOES.
Claims use since July 1946.

Ser. No. 596,477. HAIG A. BOGHOSIAN, doing business under the name Twin Shoe Company, Brockton, Mass. Filed Apr. 28, 1950.

Moujak

FOR LEATHER SHOES.
Claims use since Nov. 6, 1936.

Ser. No. 598,106. PLYMOUTH MANUFACTURING COMPANY, Boston, Mass. Filed May 25, 1950.

Plyon

FOR MEN'S TOPCOATS AND RAINCOATS.
Claims use since June 30, 1949.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 546,452. AMERICAN HARD RUBBER COMPANY, Butler, N. J., New York, N. Y., and elsewhere. Filed Jan. 8, 1948.

ACE-PROFESSIONAL

The word "Professional" is disclaimed. Applicant claims ownership of Registrations Nos. 215,703, 131,017, 172,348, and 404,919.
FOR HAIR COMBS.
Claims use since Apr. 14, 1925.

Ser. No. 576,739. BELL-SAVAGE CO., Minneapolis, Minn. Filed Apr. 7, 1949.

S*I*T—T*I*T*E

FOR RESTRAINING GARMENTS IN THE NATURE OF A SAFETY STRAP FOR SMALL CHILDREN.
Claims use since Mar. 15, 1948.

Ser. No. 577,597. PROVIDENCE BRAID COMPANY, Pawtucket, R. I. Filed Apr. 23, 1949.

MASTER-TY

The exclusive use of the word "Ty" is disclaimed.
FOR ELASTIC TAPE OR BAND IN THE NATURE OF FINDINGS AND SHOE LACES.
Claims use since 1938.

Ser. No. 591,831. CALO COMPANY, Massapequa, N. Y. Filed Feb. 2, 1950.

CALO

FOR CURL CLIPS.
Claims use since January 1942.

Ser. No. 591,832. CHARIS CORPORATION, Allentown, Pa. Filed Feb. 2, 1950.

Fem-Forms

The word "Forms" is disclaimed.
FOR FOAM RUBBER BUST PADS.
Claims use since Jan. 27, 1950.

Ser. No. 594,678. F. W. WOOLWORTH CO., New York, N. Y. Filed Mar. 25, 1950.

Jo-Ann

The name "Jo-Ann" is fanciful.
FOR ELEMENTARY KNITTING KITS CONSISTING OF KNITTING YARN, KNITTING NEEDLES AND AN INSTRUCTION SHEET FOR MAKING WOOL NOVELTIES.
Claims use since Dec. 22, 1949.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 593,840. SOCIÉTÉ À RESPONSABILITÉ LIMITÉE COMPTOIR DE L'INDUSTRIE COTONNIERE, Paris, France. Filed Mar. 11, 1950.

CHRISTIAN DIOR

The trade-mark is the name of "Christian Dior," a living person, whose consent is given. Applicant claims ownership of French Registration No. 395,372, dated July 1, 1949.
FOR UMBRELLAS.

Ser. No. 599,161. FINKEL OUTDOOR PRODUCTS, INC., New York, N. Y. Filed June 15, 1950.

CATALINA

FOR UMBRELLAS.
Claims use since Jan. 1, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 539,110. WITCOMBE, MCGEACHIN & CO. INC., New York, N. Y. Filed Oct. 25, 1947.

Kensington

Applicant claims ownership of Registrations Nos. 139,943 and 175,240.
FOR TEXTILE FABRICS OF COTTON, SILK, WOOL, LINEN, MOHAIR, RAYON, AND COMBINATIONS THEREOF.
Claims use since November 1910.

Ser. No. 541,048. S. STEIN & CO., INC., New York, N. Y. Filed Nov. 13, 1947. (Sec. 2f.)

EDINBORO

The drawing is lined for shading. Applicant claims ownership of Registration No. 200,481.
FOR WOOLEN FABRICS IN THE PIECE AND IN CUT LENGTHS.
Claims use since May 1, 1924.

Ser. No. 541,049. S. STEIN & CO., INC., New York, N. Y. Filed Nov. 13, 1947. (Sec. 2f.)

ALPINE

The drawing is lined for shading purposes. Applicant claims ownership of Registration No. 207,105.
FOR WOOLEN FABRICS IN THE PIECE AND IN CUT LENGTHS.
Claims use since Sept. 1, 1898.

Ser. No. 556,548. BELK'S BUYING SERVICE, INCORPORATED, Charlotte, N. C. Filed May 8, 1948.

WINTER NITE

FOR BLANKETS.
Claims use since Feb. 27, 1948.

Ser. No. 561,633. W. S. LIBBEY COMPANY, Lewiston, Maine. Filed July 17, 1948.

Viking

Applicant claims ownership of Registration No. 369,066.
FOR BLANKETS.
Claims use since June 17, 1927.

Ser. No. 567,953. CHATHAM MANUFACTURING COMPANY, Elkin, N. C. Filed Nov. 1, 1948. (Sec. 2f as to "Chatham.")

BABY CHATHAM

Applicant claims ownership of Registrations Nos. 150,285, 311,097, and 325,154.
FOR BLANKETS.
Claims use since May 1946 on the mark as shown; and since June 1877 on the word "Chatham."

Ser. No. 573,907. WENNONAH COTTON MILLS COMPANY, Lexington, N. C. Filed Feb. 15, 1949.

SOLITE

FOR CARDED COTTON FABRICS, SOLD IN THE PIECE.
Claims use since July 28, 1948.

Ser. No. 578,055. SMITH TEXTILE CORPORATION, New York, N. Y. Filed Apr. 30, 1949.

PRINCE OIL OPAQUES

The words "Oil Opaques" are disclaimed.
FOR SHADE CLOTH.
Claims use since Sept. 21, 1948.

Ser. No. 578,056. SMITH TEXTILE CORPORATION, New York, N. Y. Filed Apr. 30, 1949.

Castle CAMBRIC

The word "Cambric" is disclaimed.
FOR SHADE CLOTH.
Claims use since Mar. 14, 1949.

Ser. No. 578,536. I. SCHNEIERSON & SONS, INC., New York, N. Y. Filed May 10, 1949.

Treasure Loom

The lining shown in the drawing is lined for the color blue. The word "Loom" is disclaimed.
FOR PIECE GOODS, INCLUDING DENIMS AND POPLINS, OF RAYON, SILK, COTTON, LINEN, AND COMBINATIONS THEREOF.
Claims use since Mar. 4, 1949.

Ser. No. 578,609. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., and St. Louis, Mo. Filed May 11, 1949.

Maycrest

FOR CARPETING MADE OF TEXTILE FABRIC OF WOOL, AND WOOL MIXTURE.
Claims use since Apr. 12, 1949.

Ser. No. 578,861. JOSEPH BANCROFT & SONS COMPANY, Wilmington, Del. Filed May 14, 1949.

FORTH-RITE

FOR DYED AND PRINTED FABRICS IN THE PIECE, COMPOSED ENTIRELY OF SYNTHETIC FIBERS OR OF MIXTURES OF SYNTHETIC FIBERS WITH COTTON.
Claims use since Mar. 15, 1949.

Ser. No. 579,131. ROOSEN SILKS LIMITED, London, England. Filed May 19, 1949.

NICOSA

Applicant claims ownership of United Kingdom Registration No. 645,788.
FOR PIECE GOODS MADE WHOLLY OF COTTON.
Claims use since Mar. 19, 1946, in Great Britain and Northern Ireland; and first used in commerce between the United Kingdom and the United States, on May 28, 1946.

Ser. No. 581,433. MINNESOTA MINING AND MANUFACTURING COMPANY, St. Paul, Minn. Filed July 1, 1949.

Lacelon

FOR PLASTIC WEB-LIKE FABRIC SUBSTITUTE SOLD IN SHEETS AND ROLLS USED FOR WINDOW DECORATING, PACKAGE ORNAMENTATION, FLORAL TYING, AND THE LIKE, AND TO SOME EXTENT AS A TRIM MATERIAL FOR HATS, ETC.
Claims use since March 1949.

Ser. No. 583,585. BLUE-SIMON CORPORATION, New York, N. Y. Filed Aug. 17, 1949.

WASH-A-LIN

The word "Wash" is disclaimed.
FOR RAYON FABRIC.
Claims use since Oct. 27, 1948.

Ser. No. 583,689. GOODALL-SANFORD, INC., Sanford, Maine. Filed Aug. 19, 1949.

PALM TROPIC

Applicant claims ownership of Registrations Nos. 97,416, 108,511, and 353,008.
FOR PIECE GOODS OF COTTON, MOHAIR, WOOL, SYNTHETIC FIBERS AND COMBINATIONS THEREOF AND SOLD IN BOLT.
Claims use since Feb. 16, 1949.

Ser. No. 584,018. SCHWOB LINENS, INC., New York, N. Y. Filed Aug. 25, 1949.

SHOWER PLAN

FOR HAND TOWELS, HUCK TOWELS, GUEST TOWELS, DAMASK TABLE CLOTHS, TEXTILE LUNCHEON SETS, TABLE NAPKINS, BED SPREADS, BLANKETS, DISH CLOTHS, FACE CLOTHS, POT HOLDERS, PILLOW CASES, BED SHEETS, FURNITURE SCARFS AND TEXTILE VANITY SETS.
Claims use since May 9, 1949.

Ser. No. 586,154. EICHMANN & HECHT, New York, N. Y. Filed Oct. 12, 1949.

SYNFAD

FOR PLASTIC FILM, SOLD BY THE YARD, FOR MAKING INTO SHOWER CURTAINS, RAINCOATS, AND THE LIKE.
Claims use since Aug. 15, 1949.

CLASS 43

THREAD AND YARN

Ser. No. 587,064. F. W. WOOLWORTH CO., New York, N. Y. Filed Oct. 29, 1949. (Sec. 2f.)

WOOLCO

Applicant claims ownership of Registrations Nos. 112,740, 511,445, and 516,913.
FOR THREAD AND YARN OF SILK, COTTON, WOOL, RAYON, NYLON, OR OF A COMBINATION OF TWO OR MORE OF THESE FIBERS.
Claims use since Nov. 1, 1914.

Ser. No. 589,676. PATONS & BALDWINS, INC., New York, N. Y. Filed Dec. 20, 1949.

Catriona Crepe

The word "Crepe" is disclaimed.
FOR YARN.
Claims use since September 1949.

Ser. No. 593,797. THE HEMINWAY & BARTLETT MANUFACTURING COMPANY, Watertown, Conn. Filed Mar. 11, 1950.

NYLGLOV

FOR SEWING THREAD OF NYLON.
Claims use since June 15, 1948.

Ser. No. 593,798. THE HEMINWAY & BARTLETT MANUFACTURING COMPANY, Watertown, Conn. Filed Mar. 11, 1950.

MONOBOND

FOR SEWING THREAD OF NYLON.
Claims use since Oct. 20, 1949.

Ser. No. 594,187. ALBANY FELT COMPANY, North Albany, N. Y. Filed Mar. 18, 1950.

ALFASET

FOR YARN.
Claims use since Feb. 15, 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 574,038. JUNG ARCH BRACE CO., Cincinnati, Ohio, assignor to Jung Products Inc., Cincinnati, Ohio, a corporation of Ohio. Filed Feb. 17, 1949.

Propody

FOR CORN PLASTERS, CALLUS AND BUNION PLASTERS, AND ADHESIVE COATED FELT SHEETS FOR USE BY CHIROPODISTS FOR TREATING FOOT DISORDERS.
Claims use since Feb. 3, 1949.

Ser. No. 583,334. BECTON DICKINSON AND COMPANY, East Rutherford, N. J. Filed Aug. 11, 1949.

SECURITY

FOR CLINICAL THERMOMETERS, HYPODERMIC SYRINGES, HYPODERMIC NEEDLES, AND BLOOD PRESSURE APPARATUS.
Claims use since 1921.

Ser. No. 593,724. CHARLES GREENBAUM, doing business as Thera-Plast Co., New York, N. Y. Filed Mar. 10, 1950.

Thera-Plast

FOR DEFORMABLE PUTTY-LIKE MATERIAL FOR USE IN THE THERAPEUTIC EXERCISE OF THE FINGERS, HANDS, WRIST, AND FOREARM.
Claims use since Jan. 27, 1950.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 511,208. THE DODGER COMPANY, Napoleon, Ohio, assignee, by mesne assignment, from Fort Dodge Bottling Works, Inc. Original filed, act of 1905, Oct. 21, 1946; amended to application under act of 1946, Principal Register, Nov. 17, 1948.

Dodger

FOR NON-ALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK.
Claims use since May 10, 1946.

Ser. No. 580,321. REYMER & BROTHERS, INCORPORATED, Pittsburgh, Pa. Filed June 11, 1949.

FOR (NON-ALCOHOLIC, MALTLESS) SOFT DRINKS AND SYRUPS FOR MAKING SAME.
Claims use since April 1939.

Ser. No. 590,645. C. O. & W. D. SETHNESS CO., Chicago, Ill. Filed Jan. 11, 1950.

Drinkmor

FOR CHOCOLATE FLAVORED BASE USED IN THE PREPARATION OF NON-ALCOHOLIC MALTLESS SOFT DRINKS.
Claims use since Dec. 11, 1922.

Ser. No. 591,075. DRINK ATOAST COMPANY, Riverside, N. J. Filed Jan. 19, 1950.

Atoast

FOR NON-ALCOHOLIC SYRUP USED IN PREPARATION OF MALTLESS SOFT DRINKS.
Claims use since Jan. 4, 1950.

Ser. No. 591,355. THE CLOVERDALE SPRING COMPANY, also known as Cloverdale Spring Company, Baltimore, Md. Filed Jan. 24, 1950.

TORCHY

FOR MALTLESS SOFT DRINKS AND FLAVORING MATERIALS USED IN MAKING THE SAME.
Claims use since Nov. 11, 1949.

CLASS 46

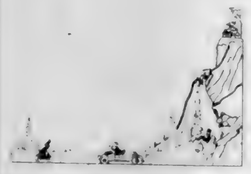
FOODS AND INGREDIENTS OF FOODS

Ser. No. 520,447. DRAKE BAKERIES INCORPORATED, Brooklyn, N. Y. Original filed, act of 1905, Apr. 10, 1947; amended to application under act of 1946, Principal Register, July 27, 1948.

DRAKE'S YANKEE

The surname "Drake's" is disclaimed.
FOR CAKE.
Claims use since Apr. 26, 1928.

Ser. No. 526,307. SIMONS & FRENCH COMPANY, INCORPORATED, New York, N. Y., and Sacramento, Calif. Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Principal Register, Feb. 9, 1948.



FOR FRESH DECIDUOUS FRUITS.
Claims use since June 29, 1931.

Ser. No. 527,505. CONSOLIDATED FOODS, INC., Nashua, N. H., by change of name from Philip Porter, Inc. Filed July 5, 1947. (Sec. 2f.)

Elegant

Applicant claims ownership of Registration No. 212,862.
FOR CANNED FRUITS; CANNED VEGETABLES; FRUIT AND VEGETABLE JUICES IN CONTAINERS; BAKED BEANS, INCLUDING PEA BEANS, RED KIDNEY BEANS AND YELLOW EYE BEANS; CANNED FISH; CANNED SHELL FISH; CANNED CHICKEN; CANNED EVAPORATED MILK; CONDIMENTS—NAMELY, TOMATO CATSUP, CHILI SAUCE AND MEAT SAUCES; FRUIT PRESERVES, JAMS, JELLIES AND MARMALADE; MAYONNAISE; SALAD DRESSING; TABLE SYRUPS—NAMELY, CORN SYRUP AND MAPLE SYRUP; MOLASSES; VINEGAR; PEANUT BUTTER; TEA AND COFFEE.
Claims use since February 1921.

Ser. No. 537,458. M. & J. B. KELLAM CO., Binghamton, N. Y. Filed Oct. 10, 1947.

ROYAL LUNCHEON

FOR COFFEE.
Claims use since January 1903.

Ser. No. 538,272. GENERAL GROCER COMPANY, also trading as General Coffee Company, St. Louis, Mo. Filed Oct. 18, 1947. (Sec. 2f.)

MANHATTAN

Applicant claims ownership of Registration No. 337,520.
FOR COFFEE.
Claims use since Feb. 20, 1895.

Ser. No. 538,464. STANLEY FRUIT COMPANY, Phoenix, Ariz. Filed Oct. 20, 1947. (Sec. 2f.)

Everipe

Applicant claims ownership of Registrations Nos. 224,768 and 256,853.
FOR FRESH CANTALOUPE.
Claims use since Feb. 20, 1924.

Ser. No. 539,529. KRISPY KREME DOUGHNUT COMPANY, Winston-Salem, N. C. Filed Oct. 30, 1947. (Sec. 2f.)

Krispy Kreme

Applicant claims ownership of Registration No. 367,524.
FOR DOUGHNUTS AND THE MIX FOR MAKING SAME.
Claims use since August 1934.

Ser. No. 540,141. ARMOUR AND COMPANY, Chicago, Ill. Filed Nov. 5, 1947.

ARMOURCLAD

Applicant claims ownership of Registration No. 415,625.
FOR HAMS AND BACON.
Claims use since 1908.

Ser. No. 542,459. JAMES H. FORBES TEA AND COFFEE COMPANY, St. Louis, Mo. Filed Nov. 26, 1947. (Sec. 2f.)

FORBES

Applicant claims ownership of Registrations Nos. 78,785, 107,165, and 189,642.
FOR COFFEE, COFFEE AND CHICORY, TEA, TEA BAGS, COCOA, FLAVORING EXTRACTS FOR FOOD PURPOSES—NAMELY, ALMOND, ANISE, CASSIA CINNAMON, LEMON, ONION, ORANGE, PEPPERMINT AND VANILLA; SPICES—NAMELY, RED PEPPER, CHILE POWDER, GROUND CELERY, COMINO, CREAM TARTAR, CASSIA BUDS, LEAF SAGE, CAKE SPICE, WHITE PEPPER, BLACK PEPPER, GROUND SAGE, GINGER, PUMPKIN PIE SPICES, CLOVES, ALLSPICE, BARBECUE SPICE, PAPRIKA, TURMERIC, MARJORAM, CATSUP SPICE, SAUSAGE SEASONING, CELERY SALT, AND CINNAMON; FOOD COLORINGS—NAMELY, BLUE, GREEN, ORANGE, RED, AND YELLOW; PREPARED MUSTARD, TAPIOCA, MINCE MEAT, COCKTAIL SAUCE, DICED FRUITS AND PEELS; IMITATION FLAVORS FOR FOOD PURPOSES—NAMELY, BANANA, BLACK WALNUT, CHERRY, MAPLE, PEACH, PINEAPPLE, RASPBERRY, RUM, SHERRY, AND WINTERGREEN; RED HOT SAUCE, PEPPER SAUCE, SALAD MUSTARD, BARBECUE SAUCE, SEA FOOD COCKTAIL SAUCE, AND BIRD SEED.
Claims use since 1876.

Ser. No. 554,863. THE CREAMETTE COMPANY, Minneapolis, Minn. Filed Apr. 17, 1948.

CREAMELLS

FOR MACARONI.
Claims use since Apr. 2, 1948.

Ser. No. 555,807. FALLBROOK CITRUS ASSOCIATION, Fallbrook, Calif. Filed Apr. 29, 1948.

LOMA VISTA

FOR FRESH CITRUS FRUITS.
Claims use since 1916.

Ser. No. 562,220. PLANTERS NUT AND CHOCOLATE COMPANY, Wilkes-Barre, Pa. Filed July 26, 1948.

No claim is made to the word "Peanut." Applicant claims ownership of Registrations Nos. 206,415, 121,818, and others.
FOR SALTED SHELLED PEANUTS, POTATO CHIPS, CANDIED AND BUTTERED POP CORN, AND DOUGHNUTS.
Claims use since June 1916.

Ser. No. 563,059. COMPAÑÍA MARÍTIMA PESQUERA S. A., Lima, Peru. Filed Aug. 9, 1948.

The representation of the fish is disclaimed. Applicant claims ownership of Peruvian Registration No. 28,866, dated Oct. 10, 1947.
FOR FRESH, CANNED, SALTED, PICKLED, AND FROZEN FISH.

Ser. No. 564,296. JOHN A. SNYDER, doing business as Snyder's Bakery Service, Oakland, Calif. Filed Aug. 27, 1948.

Culture "B"

The word "Culture" is disclaimed.
FOR SYNTHETIC BUTTER FLAVORING.
Claims use since Jan. 3, 1946.

Ser. No. 566,526. J. KENDLEY MARTIN, Atlanta, Ga., doing business as The Standard Feed Milling Company, Hopkinsville, Ky. Filed Oct. 6, 1948.

FOR DOG FOOD.
Claims use since Mar. 17, 1940.

Ser. No. 567,188. CREAMOLA FOOD PRODUCTS, LTD., Glasgow, Scotland. Filed Oct. 19, 1948.

CREMOLA

Applicant claims ownership of British Registration No. 499,217, dated May 27, 1929, filed Jan. 21, 1929, renewed Jan. 21, 1943.
FOR DESSERTS—NAMELY, CUSTARD POWDERS, BLANCMANGE POWDERS, PUDDING MIXTURES, AND GELATINE DESSERT PREPARATIONS.

Ser. No. 576,312. CLIFFORD AND GORE, INC., West Chester, Pa. Filed Mar. 30, 1949.

Vege-Crest

FOR VEGETABLE JUICE.
Claims use since Feb. 26, 1949.

Ser. No. 577,116. ESKIMO PIE CORPORATION, Bloomfield, N. J. Filed Apr. 14, 1949.

JOLLY CLUB

FOR COATED ICE CREAM BAR.
Claims use since Feb. 10, 1949.

Ser. No. 584,178. WESTERN FRUIT & PRODUCE CO., INC., Yakima, Wash. Filed Aug. 27, 1949. (Sec. 2f.)

WESTERN STAR

FOR FRESH DECIDUOUS FRUITS.
Claims use since 1918.

Ser. No. 585,119. HYGRADE FOOD PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 21, 1949.

Valleybrook BRAND

No claim is made to the word "Brand." Applicant claims ownership of Registration No. 183,315.
FOR BUTTER, FRESH EGGS AND CHEESE.
Claims use since Oct. 12, 1914.

Ser. No. 585,272. DEVONSHEER MELBA CORPORATION, West New York, N. J. Filed Sept. 24, 1949.

BAKORN

FOR COIN PUFFS, MADE OF PREPARED CORN MEAL, VEGETABLE OIL, BUTTER, CHEESE, AND SALT.
Claims use since Sept. 1, 1949.

Ser. No. 585,460. THE SOUTHERN COTTON OIL COMPANY, New Orleans, La. Filed Sept. 28, 1949. (Sec. 2f.)

Wesson

Applicant claims ownership of Registrations Nos. 145,013, 150,577, 150,578, 150,581, 150,582, and 168,645.
FOR COTTON-SEED OIL FOR SALADS AND COOKING.
Claims use since June 1899.

Ser. No. 586,738. DI GIORGIO FRUIT CORPORATION, San Francisco, Calif. Filed Oct. 24, 1949.

Try One

The drawing is lined for the colors red and blue. Applicant claims ownership of Registration No. 238,732.
FOR FRESH PEARS.
Claims use since 1923.

Ser. No. 586,844. THE DAN DEE PRETZEL AND POTATO CHIP COMPANY, Cleveland, Ohio. Filed Oct. 26, 1949.

DAN-DEE

Applicant claims ownership of Registrations Nos. 261,450, 301,078, and others.
FOR PRETZELS, POTATO CHIPS, POPCORN FLAVORED WITH OIL AND SALT, DEEP FRIED CHEESE FLAVORED CORN PRODUCT IN PUFFED FORM, AND DEEP FRIED JULIENNE POTATOES.
Claims use since August 1927.

Ser. No. 589,682. KENNETH N. RIDER COMPANY, INC., Trafalgar, Ind. Filed Dec. 20, 1949.

BIFFY

FOR CANNED VEGETABLES.
Claims use since Aug. 26, 1949.

Ser. No. 589,700. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed Dec. 21, 1949.

Glenside

Applicant claims ownership of Registration No. 287,098.
FOR CANNED PEACHES AND CANNED APRICOTS.
Claims use since Nov. 24, 1948.

Ser. No. 589,701. AMERICAN STORES COMPANY, Philadelphia, Pa. Filed Dec. 21, 1949.

HOM-DE-LITE

Applicant claims ownership of Registration No. 130,696.
FOR MAYONNAISE, SALAD DRESSING AND JELLIES.
Claims use since May 4, 1920, for mayonnaise and salad dressing; and since July 25, 1939, for jellies.

Ser. No. 590,172. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed Dec. 30, 1949.

PROBANA

FOR FOOD PRODUCT IN POWDER FORM CONTAINING POWDERED PROTEIN MILK, BANANA POWDER, DEXTROSE, AND AN ENZYMIC DIGEST OF PROTEIN USEFUL IN PREPARING SPECIAL DIETS.
Claims use since Sept. 14, 1949.

Ser. No. 590,238. SCHUCKL & CO., INC., Sunnyvale, Calif. Filed Dec. 31, 1949.

Emilio's

FOR CANNED TOMATO PASTE.
Claims use since Nov. 30, 1949.

Ser. No. 590,262. THE EAST ASIATIC COMPANY, INC., San Francisco, Calif. Filed Jan. 3, 1950.

Selandia

FOR CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED FRUIT NECTARS, DRIED FRUITS.
Claims use since Sept. 28, 1949.

Ser. No. 590,567. FRANK A. SWALM, doing business as Fra Ward Pet Food Company, Loma Linda, Calif. Filed Jan. 9, 1950.

SPORT

FOR CANNED DOG AND CAT FOOD COMPRISED OF HORSE MEAT, MEALS, MILK SOLIDS, FISH OIL, AND SEASONINGS.
Claims use since Dec. 10, 1949.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 585,021. THEO. HAMM BREWING CO., St. Paul, Minn. Filed Sept. 19, 1949. (Sec. 2f as to "Hamm.")

No claim is made to the name "St. Paul." The drawing is lined for the color red. Applicant claims ownership of Registration No. 276,567.
FOR BEER.
Claims use since May 1900.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 577,920. ALEXANDER WINOGRADOW, New York, N. Y. Filed Apr. 28, 1949.

Inlonée

FOR DECORATED PIECES OF METAL OR PLASTICS TO BE USED AS ORNAMENTAL SURFACES OR INLAYS FOR ARTICLES SUCH AS COMPACTS AND CIGARETTE CASES.
Claims use since Apr. 1, 1948.

Ser. No. 584,203. GLADYS B. ROWLAND, Hanover, Pa. Filed Aug. 29, 1949.

CAPSULE THOUGHTS

The word "Capsule" is disclaimed.
FOR PACKAGED GROUP OF CAPSULES, EACH CAPSULE CONTAINING A ROLLED SLIP OF PAPER ON WHICH IS PRINTED A VERSE, WISH, OR THOUGHT.
Claims use since July 9, 1949.

Ser. No. 588,427. COAT CONFORMERS, INC., New York, N. Y. Filed Nov. 28, 1949.

"Coat Conformer"

The word "Coat" is disclaimed.
FOR GARMENT HANGERS.
Claims use since Sept. 27, 1947.

Ser. No. 590,298. RALEIGH ALLEN, New York, N. Y. Filed Jan. 4, 1950.

Tiger Cushion

The word "Cushion" is disclaimed.
FOR RUBBER SLABS AND RUBBER MATS.
Claims use since May 6, 1949.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 564,407. E. HAMPTON SHANNON, doing business as Eve Shannon, New York, N. Y. Filed Aug. 30, 1948.

Misteria

FOR PERFUME, COLOGNE, AND TOILET WATER.
Claims use since July 1, 1948.

Ser. No. 573,531. COTY, INC., New York, N. Y. Filed Feb. 9, 1949.

PERVENCHE

FOR PERFUME, TOILET WATER, COLOGNE.
Claims use since Jan. 4, 1949.

Ser. No. 574,041. THE LIPMATCH COMPANY, Montreal, Quebec, Canada, assignor to The Lipmatch Company Ltd., Montreal, Quebec, Canada, a company of Canada. Filed Feb. 17, 1949.

Lipmatch

Applicant claims ownership of Canadian Registration No. N. S. 29,508, dated Aug. 6, 1948.
FOR LIP MAKE-UP.

Ser. No. 575,564. ASSOCIATED BRANDS, INC., Brooklyn, N. Y. Filed Mar. 17, 1949.

Latherizer

Applicant claims ownership of Registration No. 207,812.
FOR LIQUID SHAVING CREAM.
Claims use since July 15, 1925.

Ser. No. 575,577. EINOT, INC., Fremont, Nebr. Filed Mar. 17, 1949.

Einot

FOR PREPARATION IN LIQUID FORM FOR USE IN COLD WAVING HUMAN HAIR AND POWDER MISCIBLE WITH WATER FOR FORMING A SOLUTION FOR NEUTRALIZING THE RESIDUAL LIQUID PREPARATION IN THE HAIR AFTER THE WAVE IS FORMED.
Claims use since Oct. 25, 1946.

Ser. No. 579,058. VERNOL A. RAGSDALE, doing business as Tidee Company, also as Ragsdale Beauty Shop, St. Louis, Mo. Filed May 18, 1949.

SNAP-CURL

The word "Curl" is disclaimed.
FOR SOLUTION FOR USE IN SO-CALLED PERMANENT WAVING OF HUMAN HAIR.
Claims use since May 1, 1949.

Ser. No. 579,768. WILLIE WILSON, doing business as Fai Dells Products Co., Gary, Ind. Filed May 31, 1949.

The portrait is fanciful. The word "Dells" is disclaimed. The trade-mark consists of the words "Fai Dells," the representation of a human head and long hair, coupled with a circular design.
FOR HAIR DRESSING PREPARATION—NAMELY, HAIR OIL.
Claims use since Apr. 6, 1949.

Ser. No. 582,951. DAGGETT & RAMSDELL, INC., Newark, N. J. Filed Aug. 4, 1949.

Debonair

Applicant claims ownership of Registration No. 303,520.
FOR PERFUMES, COLOGNE, DEODORANTS, AND TALCUM.
Claims use since January 1949.

Ser. No. 586,587. BOTANY MILLS, INC., Passaic, N. J. Filed Oct. 20, 1949.

BOTALAN

FOR COSMETIC BASE MADE FROM LANOLIN.
Claims use since Jan. 13, 1949.

Ser. No. 586,684. CONSOLIDATED COSMETICS, Chicago, Ill. Filed Oct. 22, 1949.

TAMBOR

FOR LIPSTICK, FACE POWDER, PERFUME, AND BRILLIANTINE.
Claims use since Dec. 10, 1932.

Ser. No. 590,568. UNITED LABORATORIES, Cottonwood, Ariz. Filed Jan. 9, 1950.

Dressel

FOR HAIR DRESSING AND SCALP CONDITIONING COMPOSITION.
Claims use since Dec. 6, 1949.

Ser. No. 592,223. REJANE, INC., New York, N. Y. Filed Feb. 9, 1950.

CANASTA

FOR PERFUMES AND TOILET WATERS.
Claims use since Feb. 2, 1950.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 549,419. KAY DAUMIT, INC., Jersey City, N. J., and Chicago, Ill. Filed Feb. 11, 1948.

FOR SHAMPOO.
Claims use since Aug. 19, 1947.

Ser. No. 564,709. JOHN H. BRECK, INC., Springfield, Mass. Filed Sept. 4, 1948.

Brexcene

FOR HAIR SHAMPOO CREAM.
Claims use since July 1, 1948.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 585,626. AMERICAN BANK NOTE COMPANY, New York, N. Y. Filed Oct. 1, 1949.

The dates 1795–1879 are disclaimed.
FOR SERVICES IN THE GRAPHIC ARTS—NAMELY, ENGRAVING AND INTAGLIO PRINTING, LITHOGRAPHING, EMBOSSING, AND PRINTING WITH RAISED TYPE AND PLATES, AND MAKING DESIGNS, VIZ., ILLUSTRATIONS, ORNAMENTS, AND SPECIAL LETTERING, FOR SUCH WORK.
Claims use since 1879.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 549,758. SELECTED RISKS INDEMNITY COMPANY, Branchville, N. J. Filed Feb. 14, 1948. (Sec. 2f.)

SELECTED RISKS

FOR UNDERWRITING OF CASUALTY, FIRE, LIABILITY, COMPENSATION, AND INDEMNITY INSURANCE.
Claims use since Apr. 30, 1926.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 584,054. CUMMINS ENGINE COMPANY, INC., Columbus, Ind. Filed Aug. 26, 1949. (Sec. 2f.)

The word "Diesel" is disclaimed. Applicant claims ownership of Registrations Nos. 210,288, 214,074, 350,500, and 507,460.
FOR MAINTENANCE AND REPAIR OF DIESEL ENGINES AND PARTS THEREOF.
Claims use since Mar. 1, 1944.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 543,240. WEATHERS BROTHERS TRANSFER COMPANY, INC., Atlanta, Ga. Filed Dec. 3, 1947. (Sec. 2f.)

FOR MOVING AND TRANSFERRING BY MOTOR VAN OF MERCHANDISE AND OTHER ARTICLES AND MATERIALS.
Claims use since July 1936.

Ser. No. 590,382. MISSOURI-OKLAHOMA EXPRESS, INC., Kansas City, Mo. Filed Jan. 5, 1950.

The words "Missouri-Oklahoma Express" are disclaimed.

FOR FREIGHT TRANSPORTATION SERVICE BY TRUCK.

Claims use since October 1947.

CLASS 106

MATERIAL TREATMENT

Ser. No. 551,376. THE FABRI-FORM COMPANY, Byesville, Ohio. Filed Mar. 6, 1948.

FOR CUSTOM MOLDING OF PLASTICS.

Claims use since Sept. 1, 1943.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,308. MILITARY CAPS. DESMOND'S, Los Angeles, Calif., assignor to Desmond's, Inc., Los Angeles, Calif., a corporation of California.
Filed Dec. 9, 1943, Serial No. 465,651. Published July 10, 1945. Class 39.

444,309. FACE LOTIONS. FACE CONTOUR, INC., New York, N. Y.
Filed Oct. 20, 1945, Serial No. 490,240. Published July 25, 1950. Class 51.

444,310. TURNING MACHINE HAVING ASSOCIATED ELEMENTS TO MAKE THE CUTTING TOOL PURSUE A PATH IN RELATED TIMING WITH THE ROTATION OF THE SPINDLE TO CUT A WORK-PIECE WITH A CROSS-SECTION OTHER THAN ROUND. THE MONARCH MACHINE TOOL CO., Sidney, Ohio.
Filed Mar. 11, 1946, Serial No. 498,020. Published June 6, 1950. Class 23.

444,311. SELF-RISING FLOUR FOR PREPARATION OF FRIEDCAKES AND THE LIKE. MORRIS STERN, doing business as Quality Prepared Flour Company, Detroit, Mich.
Filed Aug. 2, 1946, Serial No. 506,784. Published June 27, 1950. Class 46.

444,312. SCREW-WORM KILLING PREPARATION IN PASTE, LIQUID, OR SEMI-LIQUID FORM FOR APPLICATION TO LIVESTOCK HAVING SCREW-WORMS. WILLIAM HENRY BONE, doing business under the name and style of Crown Products Company, Douglas, Ga.
Filed Sept. 13, 1946, Serial No. 508,966. Published July 25, 1950. Class 18.

444,313. MEN'S AND BOYS' SLACKS. MONROE MANUFACTURING CO., INC., Monroe, La.
Filed Oct. 30, 1946, Serial No. 511,755. Published Aug. 1, 1950. Class 39.

444,314. DETERGENT PREPARATION FOR CLEANING ROAD FILM FROM THE SURFACES OF AUTOMOBILES AND FOR CLEANING OTHER METALLIC PAINTED OR UNPAINTED SURFACES. FRANK COBBS, doing business as Cobbs' Manufacturing Company, Pontiac, Mich.
Filed Dec. 2, 1946, Serial No. 513,556. Published Aug. 15, 1950. Class 52.

444,315. ENGINES AND PARTICULARLY AVIATION ENGINES, GASOLINE MOTORS, DIESEL MOTORS, GAS MOTORS, TURBO-PROPULSION MOTORS, TURBO-REACTION MOTORS AND MACHINES TO USE WITH AVIATION ENGINES, PARTICULARLY COMPRESSORS AND TURBINES. SOCIÉTÉ NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION (S. N. E. C. M. A.), Paris, France.
Filed Mar. 19, 1947, Serial No. 519,300. Published June 6, 1950. Class 23.

444,316. MEN'S SPORTWEAR—NAMELY, JACKETS, SLACKS, AND OUTER SHIRTS. ASSOCIATED MILITARY STORES, Chicago, Ill.
Filed Apr. 14, 1947, Serial No. 520,604. Published June 27, 1950. Class 39.

444,317. CANNED ITALIAN STYLE TOMATOES. McKEON CANNING CO., INC., Burbank, Calif.
Filed May 16, 1947, Serial No. 522,475. Published Mar. 15, 1949. Class 46.

444,318. LAMINATED WOOD TRUSSES, BEAMS, RIBS, JOISTS, STUDS, AND POSTS, USED AS STRUCTURAL MEMBERS IN THE CONSTRUCTION OF BUILDINGS AND OF SHIPS. CLARK G. WILLIAMS, West Palm Beach, Fla.
Filed May 16, 1947, Serial No. 522,483. Published Aug. 15, 1950. Class 12.

444,319. PULSATION SUPPRESSING APPARATUS ADAPTED FOR USE IN TRANSMISSION LINES AND ADJACENT TO COMPRESSOR DISCHARGES. THE STEARNS-ROGER MANUFACTURING COMPANY, Denver, Colo.
Filed June 2, 1947, Serial No. 523,433. Published June 6, 1950. Class 23.

ACT OF 1946, PRINCIPAL REGISTER

533,273. MAKE-UP CREAM; HAIR DRESSING; BLEACHING CREAM; PRESSING OIL; DRY PERFUME; VANISHING CREAM; FACE POWDER; DEODORANT CREAM. MORTON MANUFACTURING CORPORATION, doing business under the name and style of Snow White Products Co., Lynchburg, Va.
Original filed, act of 1905, Oct. 17, 1946; amended to application under act of 1946, Principal Register, Nov. 6, 1947, Serial No. 511,030. Published Aug. 8, 1950. Class 51.

533,274. WASHING PREPARATION FOR HOUSEHOLD USE. PHIPPS PRODUCTS INC., Boston, Mass.
Original filed, act of 1905, Dec. 13, 1946; amended to application under act of 1946, Principal Register, Dec. 11, 1947, Serial No. 514,221. Published Aug. 15, 1950. Class 52.

533,275. CAST ALUMINUM EXERCISER HAVING THERAPEUTIC VALUE AND DESIGNED TO EXERCISE AND BUILD UP THE MUSCLES OF THE ABDOMEN AND LIMBS AND AID IN THE REDUCTION OF WEIGHT OF THESE PORTIONS OF THE BODY. HIPAWAY MANUFACTURING COMPANY, Swissvale, Pa.
Original filed, act of 1905, Feb. 21, 1947; amended to application under act of 1946, Principal Register, Sept. 2, 1947, Serial No. 517,910. Published Aug. 15, 1950. Class 44.

533,276. COIN OPERATED AUTOMATIC MERCHANDISE AND BEVERAGE VENDING MACHINES. ROWE MANUFACTURING CO., INC., Whippany, N. J.
Original filed, act of 1905, May 3, 1947; amended to application under act of 1946, Principal Register, Apr. 3, 1948, Serial No. 521,825. Published June 6, 1950. Class 23.

533,277. WHEAT FLOUR, WHOLE WHEAT FLOUR, GRAHAM FLOUR; BLENDED WHITE RYE AND WHEAT FLOUR; ETC. EAGLE ROLLER MILL CO., New Ulm, Minn.
Filed July 5, 1947, Serial No. 527,026. Published June 20, 1950. Class 46.

533,278. BATH SALTS. ROBERT H. CLARK, doing business as Robert H. Clark Company, Beverly Hills, Calif.
Filed July 5, 1947, Serial No. 527,555. Published Aug. 15, 1950. Class 51.

533,279. POWER OPERATED INDUSTRIAL, WAREHOUSE, AND CONSTRUCTION TRUCKS WHICH TRANSPORT, CARRY, AND CONVEY GOODS. CLARK EQUIPMENT COMPANY, Buchanan, Mich.
Filed July 10, 1947, Serial No. 528,259. Published Aug. 1, 1950. Class 19.

533,280. ANTI-FREEZE, RUST INHIBITOR, AND COMBINED ANTI-FREEZE AND RUST INHIBITOR FOR AUTOMOTIVE VEHICLE COOLING SYSTEMS. THE PURE OIL COMPANY, Chicago, Ill.
Filed July 11, 1947, Serial No. 528,374. Published Aug. 8, 1950. Class 6.

533,281. MEN'S AND WOMEN'S KNITTED WOOLEN SWEATERS IN PULLOVER, SLIPOVER, AND CARDIGAN STYLES; ETC. PRINGLE JOHNSTON IMPORTS, LTD., New York, N. Y.
Filed July 12, 1947, Serial No. 528,478. Published Aug. 1, 1950. Class 39.

533,282. MORTAR. THE BABCOCK & WILCOX COMPANY, New York, N. Y.
Filed July 18, 1947, Serial No. 528,854. Published Aug. 8, 1950. Class 12.

533,283. VARIOUS KINDS OF LEATHERS. J. GREENEBAUM TANNING CO., Chicago, Ill.
Filed July 21, 1947, Serial No. 529,048. Published July 11, 1950. Class 1.

533,284. LIQUID NON-ABRASIVE CLEANING PREPARATIONS FOR CLEANING METAL SURFACES. KLEM CHEMICALS, INC., Dearborn, Mich.
Filed July 24, 1947, Serial No. 529,427. Published Aug. 15, 1950. Class 52.

533,285. THE FOLLOWING CANNED AND PACKAGED FOOD PRODUCTS: SALMON, TUNA MEAT, SPICED LUNCHEON MEATS, MINCE MEAT, SHRIMP, CATSUP, VINEGAR, MUSTARD, SALAD DRESSING, FOOD FLAVORING EXTRACTS, PEANUT BUTTER, CHILI CON CARNE, SAUERKRAUT, TEA, SPICES, AND SALT. ASSOCIATED FOOD DISTRIBUTORS, INC., Coldwater, Mich.
Filed Aug. 12, 1947, Serial No. 531,077. Published June 27, 1950. Class 46.

533,286. BUTTER AND FRESH EGGS. ARMOUR AND COMPANY, Chicago, Ill.
Filed Aug. 23, 1947, Serial No. 532,196. Published June 20, 1950. Class 46.

533,287. APPLIANCES FOR ADMINISTRATION OF ANTI-BIOTICS, ANTIHISTAMINICS, SULFA DRUGS, HORMONES, AND BIOLOGICAL PRODUCTS BY INSUFFLATION AND INHALATION. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed Aug. 25, 1947, Serial No. 532,262. Published Aug. 15, 1950. Class 44.

533,288. TABLE SYRUPS, SORGHUM SYRUP. AMERICAN SYRUP & SORGHUM CO., St. Louis, Mo.
Filed Aug. 26, 1947, Serial No. 532,422. Published July 4, 1950. Class 46.

533,289. CANNED SALMON, TUNA, AND CRABMEAT. POINT ADAMS PACKING CO., Hammond, Oreg.
Filed Aug. 26, 1947, Serial No. 532,492. Published Dec. 6, 1949. Class 46.

533,290. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. GALAX KNITTING COMPANY, INCORPORATED, Galax, Va.
Filed Sept. 3, 1947, Serial No. 533,157. Published Aug. 1, 1950. Class 39.

533,291. STAMP PADS AND RUBBER STAMP INK. FULTON SPECIALTY CO., Elizabeth, N. J.
Filed Sept. 4, 1947, Serial No. 533,295. Published Aug. 15, 1950. Class 11.

533,292. NEGLIGEE AND WORK SHIRTS. A. M. SHRAGO & SONS, Goldsboro, N. C.
Filed Sept. 5, 1947, Serial No. 533,627. Published July 25, 1950. Class 39.

533,293. KNITTED OUTERWEAR—NAMELY, JACKETS, CREEPERS, PANTS, PULLOVERS AND SUITS, AND SNOWSUITS, SHORTS, OVERALLS, BATHING SUITS, AND BATHING TRUNKS, FOR INFANTS, CHILDREN, MEN, AND WOMEN. SHAWMUT INC., Stoughton, Mass.
Filed Sept. 9, 1947, Serial No. 533,930. Published July 11, 1950. Class 39.

533,294. DENTAL TWEEZERS. ARROW SUPPLY & TOOL CO., New York, N. Y.
Filed Sept. 10, 1947, Serial No. 533,971. Published Aug. 15, 1950. Class 44.

533,295. SAUSAGES AND MEAT LOAF. AUTH-LOFFLER, INC., Washington, D. C.
Filed Sept. 10, 1947, Serial No. 533,973. Published June 27, 1950. Class 46.

533,296. BRACES, APPAREL BELTS FOR OUTER WEAR, AND GARTERS MADE WHOLLY OR IN PART FROM LEATHER. HICKOK MANUFACTURING CO. INC., Rochester, N. Y.
Filed Sept. 30, 1947, Serial No. 536,252. Published June 27, 1950. Class 39.

533,297. CANDY. THE FAIR, Chicago, Ill.
Filed Oct. 1, 1947, Serial No. 536,372. Published July 4, 1950. Class 46.

533,298. MEDIUM SALT; TABLE SALT; SALT SPOOLS; SUGAR-CURE SALT; SUGAR-CURE SALT WITH FLAVOR, ETC. THE CAREY SALT COMPANY, Hutchinson, Kans.
Filed Oct. 8, 1947, Serial No. 537,153. Published June 20, 1950. Class 46.

533,299. HAIR DRYERS; HAIR WAVING MACHINES; CURLING RODS; HAIR STEAMERS; HAIR SPACERS, ETC. SAMUEL BONAT & BRO., INC., New York, N. Y.
Filed Oct. 22, 1947, Serial No. 538,597. Published July 18, 1950. Class 44.

533,300. NECKTIES. BEAU BRUMMEL TIES, INC., Cincinnati, Ohio.
Filed Nov. 4, 1947, Serial No. 540,024. Published Aug. 8, 1950. Class 39.

533,301. TENTS; TARPAULINS; AND TENTING AND CAMPING OUTFITS CONSISTING OF COOKING UTENSILS, ETC. HENRY MODELL & CO., INC., New York, N. Y.
Filed Nov. 14, 1947, Serial No. 541,161. Published July 25, 1950. Class 50.

533,302. SWEATERS, JACKETS, SUITS, CHILDREN'S CREEPERS, OVERALLS, SUN SUITS, SWIMMING SUITS, AND TRUNKS. WORCESTER KNITTING COMPANY, Worcester, Mass.
Filed Nov. 20, 1947, Serial No. 541,902. Published July 25, 1950. Class 39.

533,303. CLINICAL MALE URINALS, DRESSING BASINS, PAPER MORTUARY GOWNS, NURSING BOTTLE RACKS, URINE SPECIMEN BOTTLES, AND TOPS FOR THERMOMETERS. MEINECKE & COMPANY, New York, N. Y.
Filed Nov. 21, 1947, Serial No. 541,938. Published July 25, 1950. Class 44.

533,304. MEN'S AND WOMEN'S SHOES. J. P. SMITH SHOE COMPANY, Chicago, Ill.
Filed Dec. 3, 1947, Serial No. 543,229. Published Aug. 1, 1950. Class 39.

533,305. SURGICAL DRAINAGE PUMPS EACH HAVING A WORKING CHAMBER LINED WITH AN ELECTRICAL RESISTANCE FILAMENT, ETC. GOMCO SURGICAL MANUFACTURING CORP., Buffalo, N. Y.
Filed Dec. 26, 1947, Serial No. 545,475. Published July 25, 1950. Class 44.

533,306. SPRAYERS, SPRINKLERS, AND SPRAY IRRIGATION PIPING AND NOZZLE SYSTEMS FOR LAWN, GARDEN, AND GENERAL USE. THE SKINNER IRRIGATION COMPANY, Troy, Ohio.
Filed Dec. 31, 1947, Serial No. 545,904. Published Aug. 15, 1950. Class 13.

533,307. REFRACTORY BRICKS, BLOCKS AND PLATES AND OTHER BONDED REFRACTORY SHAPED ARTICLES SUCH AS FURNACE LININGS, AND REFRACTORY CEMENT. NORTON COMPANY, Worcester, Mass.
Filed Jan. 3, 1948, Serial No. 546,123. Published Aug. 15, 1950. Class 12.

533,308. FEED FOR HOGS CONTAINING A COMBINATION OF GRAINS, MEAT SCRAP, MINERALS AND VITAMINS; ETC. HALES & HUNTER CO., Chicago, Ill.
Filed Jan. 12, 1948, Serial No. 546,767. Published June 20, 1950. Class 46.

533,309. AUTOMOTIVE DUMP BODIES SUCH AS ARE USED ON DUMP TRUCKS FOR CONVEYING LOADS OF MATERIAL AND FOR DUMPING THE CONVEYED MATERIAL AT THE DESIRED DESTINATION. HERCULES STEEL PRODUCTS CORPORATION, Galion, Ohio.
Filed Jan. 12, 1948, Serial No. 546,770. Published Aug. 8, 1950. Class 19.

533,310. CASTABLE REFRACTORY MATERIAL. PLIBRICO JOINTLESS FIREBRICK COMPANY, Chicago, Ill.
Filed Jan. 12, 1948, Serial No. 546,787. Published Aug. 8, 1950. Class 12.

533,311. SOLE LEATHER. EBERLE TANNING COMPANY, Westfield, Pa.
Filed Jan. 13, 1948, Serial No. 546,834. Published July 18, 1950. Class 1.

533,312. PREPARED PIE CRUST DOUGH AND COOKIE DOUGH. K COOKIE DOUGH CO., Freeport, Ill.
Filed Jan. 15, 1948, Serial No. 547,128. Published June 27, 1950. Class 46.

533,313. MEN'S AND BOYS' PANTS AND OUTER SHIRTS AND LADIES' WESTERN STYLE PANTS, SHIRTS, JACKETS, AND SLACKS. DICKSON-JENKINS MANUFACTURING COMPANY, Fort Worth, Tex.
Filed Jan. 16, 1948, Serial No. 547,238. Published Aug. 15, 1950. Class 39.

533,314. MEN'S AND BOYS' TROUSERS, JACKETS, AND OUTER SHIRTS, AND LADIES' SLACKS. GLASER BROS. INC., St. Louis, Mo.
Filed Jan. 16, 1948, Serial No. 547,254. Published June 27, 1950. Class 39.

533,315. LUMBER PRODUCTS—NAMELY, MANUFACTURED FLOORING, ETC. KIRBY LUMBER CORPORATION, Houston, Tex.
Filed Jan. 20, 1948, Serial No. 547,558. Published Aug. 8, 1950. Class 12.

533,316. CANNED FRUITS, FROZEN FRESH FRUITS AND FROZEN FRESH BERRIES. WASHINGTON CANNERS COOPERATIVE, Vancouver, Wash.
Filed Jan. 26, 1948, Serial No. 548,031. Published June 27, 1950. Class 46.

533,317. SCARFS FOR WEAR AROUND THE NECK OR HEAD. TIMELY ACCESSORIES, INC., New York, N. Y.
Filed Jan. 27, 1948, Serial No. 548,120. Published Aug. 1, 1950. Class 39.

533,318. FRESH CITRUS FRUITS. ESCONDIDO ORANGE ASSOCIATION, Escondido, Calif.
Filed Jan. 31, 1948, Serial No. 548,490. Published June 20, 1950. Class 46.

533,319. LADIES', MEN'S, AND CHILDREN'S HOSIERY. GUILFORD HOSIERY MILLS, High Point, N. C.
Filed Nov. 20, 1947, Serial No. 549,380. Published Nov. 29, 1949. Class 39.

533,320. CANNED STUFFED GREEN PEPPERS, CANNED PIMIENTOS, CANNED MINT FLAVOR SAUCE, AND MARMALADE. KEHOE PRESERVING CO., Clay City, Ind.
Filed Feb. 11, 1948, Serial No. 549,448. Published June 27, 1950. Class 46.

533,321. INCANDESCENT LAMP COLORING FLUID CONTAINING INGREDIENTS ADHERING TO THE GLASS ENVELOPE OF THE LAMP TO COLOR, OR TO FROST THE SAME. MCGILL MANUFACTURING COMPANY, INC., Valparaiso, Ind.
Filed Feb. 12, 1948, Serial No. 549,559. Published Aug. 15, 1950. Class 6.

533,322. LINSEED OIL, TURPENTINE, READY-MIXED OIL PAINTS FOR EXTERIOR AND INTERIOR USE, ETC. DAVIS PAINT COMPANY, Kansas City, Mo.
Filed Feb. 25, 1948, Serial No. 550,495. Published Aug. 8, 1950. Class 16.

533,323. CHOCOLATE FLAVORED SYRUP. THE GREAT AMERICAN TEA COMPANY, New York, N. Y.
Filed Mar. 2, 1948, Serial No. 551,009. Published June 27, 1950. Class 46.

533,324. PRE-FABRICATED BUILDING STRUCTURES AND PARTS THEREOF—NAMELY, METAL SUPPORTING FRAMES AND SKELETONS, METAL GIRDERS, BEAMS AND PURLINS, ETC. STICHTING POLYNORMBOUW, Amsterdam, Holland.
Filed Mar. 5, 1948, Serial No. 551,334. Published Aug. 15, 1950. Class 12.

533,325. TABLECOVERS AND WINDOW CURTAINS, ALL MADE OF PLASTIC FILM MATERIAL AND BEARING PENNSYLVANIA DUTCH DESIGNS AND PRINTS. THE BEECHWOOD COMPANY, INCORPORATED, Stowe, Pa.
Filed Mar. 8, 1948, Serial No. 551,434. Published Aug. 15, 1950. Class 42.

533,326. BOYS' AND YOUNG MEN'S SUITS AND OVERCOATS. BEN WIENER AND BRO., New York, N. Y.
Filed Mar. 13, 1948, Serial No. 551,927. Published June 28, 1949. Class 39.

533,327. SPOONS AND SPATULAS FOR SURGICAL AND PHARMACEUTICAL USE. PAUL NIKLAUS WALDESBÜHL, Aargau, Switzerland.
Filed Mar. 23, 1948, Serial No. 552,821. Published Aug. 15, 1950. Class 44.

533,328. CANDY. KING CANDY COMPANY, Fort Worth, Tex.
Filed Mar. 29, 1948, Serial No. 553,286. Published July 4, 1950. Class 46.

533,329. DYESTUFFS AND VARIOUS CHEMICALS—NAMELY, SOFTENING AGENTS, PENETRANTS, DYESTUFF DEVELOPERS, AND REDUCING AGENTS, RETARDING AGENTS, "SANFORIZING" OILS, AND FINISHING AGENTS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,534. Published Aug. 15, 1950. Class 6.

533,330. VARIOUS CHEMICALS—NAMELY, SOFTENING AGENTS, PENETRANTS, DYESTUFF DEVELOPERS, AND REDUCING AGENTS, RETARDING AGENTS, "SANFORIZING" OILS, AND FINISHING AGENTS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,536. Published Aug. 15, 1950. Class 6.

533,331. VARIOUS CHEMICALS—NAMELY, SOFTENING AGENTS, PENETRANTS, DYESTUFF DEVELOPERS, AND REDUCING AGENTS, RETARDING AGENTS, "SANFORIZING" OILS, AND FINISHING AGENTS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,537. Published Aug. 15, 1950. Class 6.

533,332. DYESTUFFS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,538. Published Aug. 15, 1950. Class 6.

533,333. VARIOUS CHEMICALS—NAMELY, SOFTENING AGENTS, PENETRANTS, DYESTUFF DEVELOPERS, AND REDUCING AGENTS, RETARDING AGENTS, "SANFORIZING" OILS, AND FINISHING AGENTS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,539. Published Aug. 15, 1950. Class 6.

533,334. DYESTUFFS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,540. Published Aug. 15, 1950. Class 6.

533,335. DYESTUFFS. SOUTHERN DYESTUFF CORPORATION, Charlotte, N. C.
Filed Mar. 31, 1948, Serial No. 553,541. Published Aug. 15, 1950. Class 6.

533,336. PAINT ENAMEL. THE BLACK DIAMOND PAINT & VARNISH WORKS, INC., Cincinnati, Ohio.
Filed Apr. 8, 1948, Serial No. 554,084. Published Aug. 8, 1950. Class 16.

533,337. CANNED TANGERINE JUICE, CANNED GRAPEFRUIT JUICE, CANNED ORANGE JUICE, CANNED ORANGE AND GRAPEFRUIT JUICE, CANNED GRAPEFRUIT SECTIONS, AND CANNED GRAPEFRUIT AND ORANGE FOR SALAD. E. S. SMITH COMPANY, INC., Lakeland, Fla.
Filed Apr. 12, 1948, Serial No. 554,431. Published June 27, 1950. Class 46.

533,338. HOSE COUPLINGS. H. B. SHERMAN MANUFACTURING COMPANY, Battle Creek, Mich.
Filed Apr. 15, 1948, Serial No. 554,726. Published Aug. 15, 1950. Class 13.

533,339. ROOFING GRANULES OF STONE. QUARTEX CORPORATION, Chicago, Ill.
Filed Apr. 17, 1948, Serial No. 554,920. Published Aug. 15, 1950. Class 1.

533,340. PREFABRICATED GARAGES AND THE MATERIALS THEREFOR—NAMELY, FRAME MEMBERS, SIDING, SHEET WALL INSULATION, ETC. VICTORY BUILDERS, Chicago, Ill., assignor to Victory Builders & Lumber Co., Inc., Chicago, Ill., a corporation of Illinois.
Filed Apr. 17, 1948, Serial No. 554,932. Published Aug. 15, 1950. Class 12.

533,341. WOMEN'S AND GIRLS' COATS, SUITS, SLACKS, AND SKIRTS MADE FROM TEXTILE FABRIC. GILBERT ORIGINALS, INC., Chicago, Ill.
Filed May 7, 1948, Serial No. 556,434. Published Aug. 1, 1950. Class 39.

533,342. ROTARY PRINTING PRESSES. R. HOE & CO., INC., New York, N. Y.
Filed May 7, 1948, Serial No. 556,443. Published June 27, 1950. Class 23.

533,343. FLORISTS' PRODUCT—NAMELY, POTTED PLANTS. THE INDOOR GARDENER, INC., West Hempstead, N. Y.
Filed May 7, 1948, Serial No. 556,445. Published Aug. 15, 1950. Class 1.

533,344. ASPHALTIC ROOF PAINT, PRIMER AND ROOF COATING IN THE NATURE OF ROOF PAINT; METAL PAINTS; PAINT INTENDED TO BE USED ON CONCRETE AND OTHER CONSTRUCTION SURFACES. THE PHILIP CAREY MANUFACTURING COMPANY, Lockland and Cincinnati, Ohio.
Filed May 7, 1948, Serial No. 556,477. Published Aug. 8, 1950. Class 16.

533,345. PREPARED ROCK FOR USE IN AGRICULTURAL FERTILIZER PRODUCTS. CANADIAN REFRACTORIES LIMITED, Montreal, Quebec, Canada.
Filed May 15, 1948, Serial No. 557,109. Published Aug. 15, 1950. Class 1.

533,346. NATURAL FLOWERS. E. W. MCLELLAN CO., San Francisco, Calif.
Filed May 15, 1948, Serial No. 557,145. Published July 25, 1950. Class 1.

533,347. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, AND RUBBER, AND COMBINATIONS THEREOF. F. J. FRAPE LIMITED, Kettering, Northamptonshire, England.
Filed May 18, 1948, Serial No. 557,272. Published Aug. 15, 1950. Class 39.

533,348. LEATHER. SAWYER TANNING COMPANY, Napa, Calif.
Filed June 8, 1948, Serial No. 558,743. Published July 25, 1950. Class 1.

533,349. DOOR CHECKS AND DOOR CHECK PARTS SOLD FOR USE IN REPAIR AND REPLACEMENT IN DOOR CHECKS. DOR-O-MATIC CO., Chicago, Ill., assignor, by mesne assignments, to Logan Engineering Co., Chicago, Ill.
Filed June 11, 1948, Serial No. 559,011. Published Aug. 15, 1950. Class 13.

533,350. LIGNIN PREPARED FROM LIQUORS ORIGINATING IN THE ALKALINE PAPER PULP INDUSTRY. WEST VIRGINIA PULP AND PAPER COMPANY, New York, N. Y.
Filed Feb. 14, 1948, Serial No. 559,392. Published Aug. 15, 1950. Class 6.

533,351. VARNISHES AND VARNISH STAINS. JOHN LUCAS & COMPANY, INC., Philadelphia, Pa.
Filed June 24, 1948, Serial No. 560,120. Published Aug. 8, 1950. Class 16.

533,352. HOSIERY. SIDNEY J. STERN & CO., Chicago, Ill.
Filed July 8, 1948, Serial No. 560,939. Published Feb. 28, 1950. Class 39.

533,353. LADIES' AND MISSES' CUFFS, DICKEYS, BLOUSES, BLOUSETTES, JABOTS, AND NECKWEAR—NAMELY, COLLARS, SCARVES, NECKTIES, AND GILETS. ANN PHILLIPS, New York, N. Y.
Filed July 22, 1948, Serial No. 561,942. Published June 6, 1950. Class 39.

533,354. SEPARABLE SLIDE FASTENERS. WALDES KOHINOOR, INC., Long Island City, N. Y.
Filed July 22, 1948, Serial No. 561,961. Published Aug. 15, 1950. Class 13.

533,355. DYED RABBIT SKINS AND PELTS. OAKLAND FUR DYEING CO., INC., Brooklyn, N. Y.
Filed July 1, 1948, Serial No. 561,973. Published Aug. 15, 1950. Class 1.

533,356. COTTON PIECE GOODS. AKTIENGESELLSCHAFT A. & R. MOOS, Weisslingen, Switzerland.
Filed July 23, 1948, Serial No. 561,996. Published Aug. 15, 1950. Class 42.

533,357. ANIMAL FEEDS AND POULTRY FEEDS—NAMELY, FEEDS FOR CHICKENS, TURKEYS, PHEASANTS, PIGEONS, COWS, HORSES, PIGS, RABBITS, AND GOATS COMPRISED OF GROUND GRAINS, CONCENTRATES, AND MINERALS. ALBERS MILLING COMPANY, Los Angeles and Oakland, Calif., Portland, Oreg., and Seattle, Wash.
Filed July 26, 1948, Serial No. 562,172. Published June 27, 1950. Class 46.

533,358. SLIP-SHEETER FOR USE WITH STENCIL DUPLICATING MACHINES. MILO HARDING COMPANY, Los Angeles, Calif.
Filed Aug. 2, 1948, Serial No. 562,656. Published Aug. 1, 1950. Class 23.

533,359. WHEAT FLOUR. TEXAS STAR FLOUR MILLS, doing business as Pan American Flour Mills, Dallas, Tex.
Filed Aug. 5, 1948, Serial No. 562,892. Published Nov. 8, 1949. Class 46.

533,360. SHUTTER FRONTS FOR AUTOMOBILE ENGINE RADIATORS. THE BREWER-TITCHENER CORPORATION, Cortland, N. Y.
Filed Aug. 19, 1948, Serial No. 563,723. Published Aug. 8, 1950. Class 19.

533,361. COAL. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa.
Filed Apr. 2, 1948, Serial No. 563,988. Published Aug. 15, 1950. Class 1.

533,362. MEN'S OUTER SHIRTS. MCGREEVEY, WERRING & HOWELL, INC., New York, N. Y.
Filed Aug. 25, 1948, Serial No. 564,137. Published Aug. 1, 1950. Class 39.

533,363. CONTAINER OF FEATHERS FOR INSERTION INTO A PILLOW, CUSHION, OR COMFORTER FOR RESTORING THE BUOYANCY AND RESILIENCY THERETO BY THE ADDITION OF THE FEATHERS FROM THE CONTAINER. PHILIP W. BEHR, doing business as Pillopak Company, New York, N. Y.
Filed Aug. 30, 1948, Serial No. 564,369. Published Aug. 15, 1950. Class 1.

533,364. MEDICINAL PREPARATION FOR THE TREATMENT OF NEURITIS AND OTHER RHEUMATIC CONDITIONS. TOM C. SHARP, doing business as Tom C. Sharp Drug Co., Nashville, Tenn.
Filed Sept. 3, 1948, Serial No. 564,658. Published Aug. 15, 1950. Class 18.

533,365. SPONGES. REGINALD ALFRED BOSWELL, London, England.
Filed Sept. 13, 1948, Serial No. 565,037. Published Aug. 15, 1950. Class 1.

533,366. PHARMACEUTICAL PREPARATIONS FOR USE AS MUSCLE RELAXANTS, IN CONJUNCTION WITH THE USE OF ANAESTHETICS. THE BRITISH DRUG HOUSES, LIMITED, London, England.
Filed Sept. 15, 1948, Serial No. 565,167. Published July 25, 1950. Class 18.

533,367. CANNED, SMOKED, AND SALTED FISH. A. M. SMITH & COMPANY, LIMITED, Halifax, Nova Scotia, Canada.
Filed Sept. 27, 1948, Serial No. 565,970. Published July 4, 1950. Class 46.

533,368. READY TO WEAR CLOTHING—NAMELY, LADIES' DRESSES, SLIPS, AND BLOUSES. BELLMAN BROOK BLEACHERY COMPANY, Fairview, N. J.
Filed Oct. 1, 1948, Serial No. 566,207. Published June 27, 1950. Class 39.

533,369. DIATOMACEOUS EARTH IN HEMI-CYLINDRICAL SECTIONS USED FOR PIPE INSULATION. THE EAGLE-PICHER COMPANY, Cincinnati, Ohio.
Filed Oct. 1, 1948, Serial No. 566,216. Published Aug. 15, 1950. Class 12.

533,370. WHEAT FLOUR. TEX-O-KAN FLOUR MILLS CO., doing business as Morten Milling Company, Dallas, Tex.
Filed Oct. 7, 1948, Serial No. 566,670. Published Aug. 29, 1950. Class 46.

533,371. MEN'S CLOTHING — NAMELY, DRESS SHIRTS, ETC. BUTLER BROTHERS, Chicago, Ill.
Filed Oct. 12, 1948, Serial No. 566,861. Published June 6, 1950. Class 39.

533,372. BOOTS AND SHOES OF LEATHER FOR MEN, WOMEN, AND CHILDREN, OTHER THAN OVERSHOES. STEPHEN PUTNEY SHOE CO., Richmond, Va.
Filed Aug. 9, 1948, Serial No. 567,313. Published Aug. 1, 1950. Class 39.

533,373. BUILDING TILE, FACE AND COMMON BRICK, AND DRAIN TILE. MASON CITY BRICK & TILE COMPANY, doing business as Redfield Brick & Tile Co., Mason City, Iowa.
Filed Aug. 17, 1948, Serial No. 567,324. Published Aug. 8, 1950. Class 12.

533,374. DRESSED POULTRY AND FRESH EGGS. LEVINE PRODUCE COMPANY, David City, Nebr.
Filed Oct. 25, 1948, Serial No. 567,590. Published June 27, 1950. Class 46.

533,375. COLD CREAM FOR INFANTS. Q-TIPS INC., Long Island City, N. Y.
Filed Oct. 27, 1948, Serial No. 567,711. Published Aug. 15, 1950. Class 51.

533,376. AUTOMOTIVE EXHAUST PIPE, AUTOMOTIVE EXHAUST MUFFLER, AUTOMOTIVE EXHAUST TAIL PIPE, AUTOMOTIVE EXHAUST SYSTEM MUFFLER SAW, AUTOMOTIVE EXHAUST SYSTEM PIPE PEELER, GREASE GUNS. THE PURE OIL COMPANY, Chicago, Ill.
Filed Oct. 30, 1948, Serial No. 567,925. Published June 27, 1950. Class 23.

533,377. TWIST DRILLS. STAR EXPANSION BOLT COMPANY, New York, N. Y.
Filed Oct. 30, 1948, Serial No. 567,931. Published Aug. 1, 1950. Class 23.

533,378. FOOD EMULSIFIERS BEING ESTERS OF HIGHER FATTY ACIDS PARTICULARLY FOR USE IN THE MANUFACTURE OF FROZEN CONFECTIONS. ATLAS POWDER COMPANY, Wilmington, Del.
Filed Nov. 4, 1948, Serial No. 568,168. Published June 27, 1950. Class 46.

533,379. ACCORDIONS. INTERNATIONAL ACCORDION MANUFACTURING COMPANY, East Detroit, Mich.
Filed Nov. 13, 1948, Serial No. 568,735. Published July 25, 1950. Class 36.

533,380. PERFUMES. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed Nov. 15, 1948, Serial No. 568,801. Published Aug. 15, 1950. Class 51.

533,381. ICE CREAM. FROSTY MANORS, INC., St. Louis, Mo.
Filed Nov. 18, 1948, Serial No. 569,000. Published June 27, 1950. Class 46.

533,382. SOLE LEATHER. MIDDLEBURG TANNING CORPORATION, Philadelphia, Pa.
Filed Nov. 30, 1948, Serial No. 569,633. Published July 11, 1950. Class 1.

533,383. TURNING CHISELS, HALFTWIST BITS, REAMERS, END FACE MILLS, SLOT CUTTERS, ETC. AKTIEBOLAGET HÄRDMETALLVERKTYG, Ockelbo, Sweden.
Filed Dec. 2, 1948, Serial No. 569,730. Published June 6, 1950. Class 23.

533,384. WHITE SIDE-WALL TIRE CLEANER. VOGUE RUBBER COMPANY, Chicago, Ill.
Filed Dec. 7, 1948, Serial No. 570,136. Published Aug. 15, 1950. Class 52.

533,385. THUMB TACKS; FURNITURE SLIDE CASTERS AND CASTER WHEELS; DOOR KNOBS; ETC. B. ALTMAN & CO., New York, N. Y.
Filed Dec. 8, 1948, Serial No. 570,158. Published Aug. 15, 1950. Class 13.

533,386. MEN'S SUITS, TROUSERS, SPORT COATS, OUTER SHIRTS, AND SLACKS, TOPCOATS; LADIES' SUITS, SKIRTS, AND JACKETS. A. SAGNER'S SON, Baltimore, Md.
Filed Dec. 8, 1948, Serial No. 570,232. Published Aug. 15, 1950. Class 39.

533,387. DOG FOOD BASE, THE PRINCIPAL INGREDIENTS OF WHICH ARE WHEAT FLOUR, SOYA, YEAST, SALT, DEHYDRATED MEAT, AND YEAST-FOOD. GERARD G. SCHIFFHAUER, doing business under the name and style of Lackawanna Products Company, Lackawanna, N. Y.
Filed Dec. 13, 1948, Serial No. 570,438. Published June 27, 1950. Class 46.

533,388. LIVESTOCK INSTRUMENTS—NAMELY, JAW SPREADERS, CAPSULE FORCEPS, VACCINE SYRINGES, SERUM SYRINGES, CATTLE TROCARS, CASTRATING KNIVES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Dec. 16, 1948, Serial No. 570,645. Published Aug. 15, 1950. Class 44.

533,389. AIR PUMPS FOR INFLATING TYRES. BLUEMEL BROS. LIMITED, Wolston, England.
Filed Jan. 19, 1949, Serial No. 572,408. Published June 13, 1950. Class 23.

533,390. LAWN MOWERS. LUCIUS N. SMITH, doing business as Whirler-Glide Mower Company, Montverde, Fla.
Filed Jan. 19, 1949, Serial No. 572,463. Published Aug. 1, 1950. Class 23.

533,391. MEN'S, WOMEN'S, AND CHILDREN'S CLOTHING—NAMELY, OUTER SHIRTS, BLOUSES, DRESSES, JACKETS, COATS, AND SLACK SUITS. FISCH AND COMPANY, Los Angeles, Calif.
Filed Jan. 25, 1949, Serial No. 572,734. Published June 27, 1950. Class 39.

533,392. SPECIALLY PREPARED POLLEN. LEO C. ANTLES, trading as Fruit Tree Pollen Supplies Co., Wenatchee, Wash.
Filed Jan. 28, 1949, Serial No. 572,937. Published Aug. 8, 1950. Class 1.

533,393. MEDICINAL PREPARATION FOR ORAL USE IN THE TREATMENT OF VIRUS INFECTIONS. COLIN PHARMACAL CO., INC., Brooklyn, N. Y.
Filed Feb. 2, 1949, Serial No. 573,166. Published Aug. 15, 1950. Class 18.

533,394. MEDICINAL PREPARATION FOR ORAL USE IN THE TREATMENT OF VIRUS INFECTIONS. COLIN PHARMACAL CO., INC., Brooklyn, N. Y.
Filed Feb. 2, 1949, Serial No. 573,167. Published Aug. 15, 1950. Class 18.

533,395. BICYCLES, STROLLERS, MATERIAL HAULING TRUCKS, ETC. THE COLSON CORPORATION, Elyria, Ohio.
Filed Feb. 2, 1949, Serial No. 573,168. Published Aug. 8, 1950. Class 19.

533,396. COTTON PIECE GOODS. HAYTHORNTHWAITE & SONS LIMITED, Burnley, England.
Filed Feb. 9, 1949, Serial No. 573,547. Published Aug. 1, 1950. Class 42.

533,397. ENZYMATIC PREPARATION FOR REMOVAL OF STARCHES AND PROTEINS FROM WASHABLE FABRICS. WALLERSTEIN COMPANY, INC., New York, N. Y.
Filed Feb. 9, 1949, Serial No. 573,579. Published Aug. 15, 1950. Class 6.

533,398. WRISTBANDS AND BRACELETS FOR WATCHES MADE WHOLLY OR IN PART OR PLATED WITH PRECIOUS METALS, SOLD SEPARATELY FROM WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed Feb. 10, 1949, Serial No. 573,643. Published Aug. 8, 1950. Class 28.

533,399. ELECTRICAL CONTACT CLEANING COMPOUND. ROTOL CHEMICAL CORP., New York, N. Y.
Filed Feb. 16, 1949, Serial No. 573,975. Published Aug. 15, 1950. Class 52.

533,400. RADIATOR CLEANER TO REMOVE SLUDGE AND SCALE FROM RADIATORS, SUCH AS AUTOMOBILE RADIATORS. STET CHEMICAL COMPANY, South Bend, Ind.
Filed Feb. 16, 1949, Serial No. 573,991. Published Aug. 15, 1950. Class 52.

533,401. TEXTILE PIECE GOODS MADE OF COTTON, SILK, WOOL, LINEN, AND SYNTHETIC FIBERS OR MIXTURES OF THE SAID MATERIALS. SPRAY & BURGASS LIMITED, Netherfield, England.
Filed Feb. 19, 1949, Serial No. 574,167. Published Aug. 15, 1950. Class 42.

533,402. FOLDING WOODEN UNITS SERVICEABLE AS PARTITIONS AND DOOR-TYPE CLOSURES. SVENSKA KAROSSERI VERKSTÄDERNA AKTIEBOLAG, Katrineholm, Sweden.
Filed Feb. 23, 1949, Serial No. 574,394. Published Aug. 8, 1950. Class 12.

533,403. COTTON PIECE GOODS. PACOLET MANUFACTURING COMPANY, Pacolet, S. C.
Filed Feb. 26, 1949, Serial No. 574,590. Published Aug. 15, 1950. Class 42.

533,404. SEAMLESS STEEL TUBING. THE OHIO SEAMLESS TUBE COMPANY, Shelby, Ohio.
Filed Mar. 3, 1949, Serial No. 574,856. Published Aug. 15, 1950. Class 13.

533,405. COTTON AND RAYON PIECE GOODS. IMPERIAL TEXTILE CO. OF NEW YORK, INC., New York, N. Y.
Filed Mar. 4, 1949, Serial No. 574,910. Published Aug. 15, 1950. Class 42.

533,406. PRESSING OIL FOR THE HAIR. JAMES W. RAWLS, doing business under the trade name Golden State Supply, Los Angeles, Calif.
Filed Mar. 7, 1949, Serial No. 575,017. Published Aug. 15, 1950. Class 51.

533,407. CARBON COMPOUNDING MATERIAL USED PRINCIPALLY AS A FILLER IN RUBBER OR SYNTHETIC RUBBER. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed Mar. 14, 1949, Serial No. 575,425. Published Aug. 15, 1950. Class 1.

533,408. VITAMIN AND PROTEIN CONCENTRATE FEED SUPPLEMENT FOR POULTRY AND LIVE STOCK. FAW YAP CHUCK, doing business as Dr. F. Y. Chuck Research Laboratories, San Francisco, Calif.
Filed Mar. 18, 1949, Serial No. 575,626. Published June 27, 1950. Class 46.

533,409. SYNTHETIC RUBBER WEATHER STRIPPING. ARROWHEAD RUBBER COMPANY, Vernon, Calif.
Filed Apr. 4, 1949, Serial No. 576,566. Published Aug. 8, 1950. Class 12.

533,410. VEGETABLE WAX FOR GENERAL USE IN INDUSTRY. IMEX CORPORATION, Philadelphia, Pa.
Filed Apr. 5, 1949, Serial No. 576,642. Published Aug. 15, 1950. Class 6.

533,411. LIME AND PLASTER FOR CONSTRUCTION PURPOSES. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed Apr. 6, 1949, Serial No. 576,726. Published Aug. 8, 1950. Class 12.

533,412. TOILET SOAP. SAFEWAY STORES, INCORPORATED, Baltimore, Md., and Oakland, Calif.
Filed Apr. 12, 1949, Serial No. 576,987. Published Aug. 15, 1950. Class 52.

533,413. TOILET SOAP. SAFEWAY STORES, INCORPORATED, Baltimore, Md., and Oakland, Calif.
Filed Apr. 12, 1949, Serial No. 576,988. Published Aug. 15, 1950. Class 52.

533,414. WOOLEN PIECE GOODS. H. W. SCHWAB TEXTILE CORP., New York, N. Y.
Filed Apr. 12, 1949, Serial No. 576,991. Published Aug. 15, 1950. Class 42.

533,415. HAND PROTECTIVE COMPOSITION USED TO PREVENT DIRT FROM REACHING THE SKIN. CHARLES J. SPRUSIL, Corona, N. Y.
Filed Apr. 14, 1949, Serial No. 577,149. Published Aug. 8, 1950. Class 6.

533,416. COLLAR PINS MADE OF PRECIOUS METALS. JAMES D. WADE, doing business as Jim Wade & Company, Shreveport, La.
Filed Apr. 18, 1949, Serial No. 577,349. Published Aug. 15, 1950. Class 28.

533,417. COLD SETTING WATERPROOF CEMENT. RUBBER & PLASTICS COMPOUND COMPANY, INC., New York, N. Y.
Filed Apr. 26, 1949, Serial No. 577,736. Published Aug. 8, 1950. Class 12.

533,418. TREATED LEATHER SKINS SOLD PRIMARILY TO THE POCKETBOOK MANUFACTURERS. ANGLO-AMERICAN LEATHER CO., INC., Newark, N. J.
Filed May 5, 1949, Serial No. 578,250. Published Aug. 15, 1950. Class 1.

533,419. WHEAT FLOUR. THE COLORADO MILLING & ELEV. CO., doing business as Jerome Milling & Elev. Co., Denver, Colo.
Filed May 7, 1949, Serial No. 578,369. Published June 20, 1950. Class 46.

533,420. SOAP. NEWELL GUTRADT COMPANY, San Francisco, Calif.
Filed May 11, 1949, Serial No. 578,613. Published Aug. 15, 1950. Class 52.

533,421. MEDICINAL PREPARATION FOR THE TREATMENT OF MICRO-ORGANIC INFECTION. SCHERING CORPORATION, Bloomfield, N. J.
Filed May 11, 1949, Serial No. 578,636. Published Aug. 15, 1950. Class 18.

533,422. VITAMIN PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed May 13, 1949, Serial No. 578,830. Published Aug. 15, 1950. Class 18.

533,423. SAFETY RAZOR BLADES. BURMA-VITA COMPANY, Minneapolis, Minn.
Filed May 19, 1949, Serial No. 579,079. Published Aug. 1, 1950. Class 23.

533,424. AUTOMATIC CIGARETTE VENDING MACHINES. AUTOMATIC PRODUCTS CO., Minneapolis, Minn.
Filed May 21, 1949, Serial No. 579,256. Published June 6, 1950. Class 23.

533,425. NECKTIES. ALBERT A. MENDELSON, Portland, Oreg.
Filed May 23, 1949, Serial No. 579,338. Published Aug. 8, 1950. Class 39.

533,426. DETERGENT USED FOR LAUNDERING CLOTHES AND OTHER WASHING PURPOSES. JOHN MIELE, doing business as Economy Specialty Co., Jersey City, N. J.
Filed May 23, 1949, Serial No. 579,339. Published Aug. 15, 1950. Class 52.

533,427. DETERGENT USED FOR LAUNDERING CLOTHES AND OTHER WASHING PURPOSES. JOHN MIELE, doing business as Economy Specialty Co., Jersey City, N. J.
Filed May 23, 1949, Serial No. 579,341. Published Aug. 15, 1950. Class 52.

533,428. MEN'S AND BOYS' SHIRTS, FOR SPORTS AND DRESS WEAR, T SHIRTS, SLACKS, TROUSERS, JACKETS, AND COATS, PAJAMAS, SHORTS, UNDERSHIRTS, COMBINATION UNDERGARMENTS, AND BRIEFS. MARLBORO SHIRT COMPANY, INC., Baltimore, Md.
Filed May 26, 1949, Serial No. 579,545. Published June 27, 1950. Class 39.

533,429. WEARING APPAREL—NAMELY, BATH AND LOUNGING ROBES. GERTRUDE DAVENPORT, INC., New York, N. Y.
Filed May 28, 1949, Serial No. 579,672. Published July 11, 1950. Class 39.

533,430. WEARING APPAREL—NAMELY, SLEEPING GARMENTS. GERTRUDE DAVENPORT, INC., New York, N. Y.
Filed May 28, 1949, Serial No. 579,673. Published Aug. 15, 1950. Class 39.

533,431. LADIES' HATS. LISH BROTHERS, New York, N. Y.
Filed June 7, 1949, Serial No. 580,065. Published Aug. 8, 1950. Class 39.

533,432. TEXTILE COVERINGS FOR ROLLERS USED IN THE GRAPHIC ARTS. C. WALKER JONES COMPANY, Philadelphia, Pa.
Filed June 13, 1949, Serial No. 580,368. Published June 27, 1950. Class 23.

533,433. MEN'S, BOYS', WOMEN'S, AND GIRLS' DENIM PANTS AND JACKETS. THE BLACK MANUFACTURING CO., Seattle, Wash.
Filed June 15, 1949, Serial No. 580,459. Published July 11, 1950. Class 39.

533,434. AMMONIATED TOOTH PASTE. AMMONIATED TOOTH POWDER, AND AMMONIATED MOUTH WASH. DENTAL PHARMACEUTICAL CORPORATION OF AMERICA, Chicago, Ill.
Filed June 15, 1949, Serial No. 580,469. Published July 25, 1950. Class 51.

533,435. LAWN MOWERS OF THE GAS-POWERED TYPE. HAL-GAN PRODUCTS, INC., Elm Grove, Wis.
Filed June 16, 1949, Serial No. 580,591. Published June 6, 1950. Class 23.

533,436. BATHING SUITS. AQUA MFG. CO., INC., New York, N. Y.
Filed Jan. 18, 1949, Serial No. 580,709. Published Aug. 1, 1950. Class 39.

533,437. CLEANING, CLEANSING, AND DETERGENT CHEMICAL COMPOUNDS IN LIQUID, POWDER, AND/OR PASTE FORM OF GENERAL UTILITY. CIBA LIMITED, Basel, Switzerland.
Filed June 23, 1949, Serial No. 580,921. Published Aug. 15, 1950. Class 52.

533,438. CLEANING, CLEANSING, AND DETERGENT CHEMICAL COMPOUNDS IN LIQUID, POWDER, AND/OR PASTE FORM OF GENERAL UTILITY. CIBA LIMITED, Basel, Switzerland.
Filed June 23, 1949, Serial No. 580,922. Published Aug. 15, 1950. Class 52.

533,439. SCARFS. BARCLAY-CLOVER, INC., New York, N. Y.
Filed June 28, 1949, Serial No. 581,163. Published Aug. 1, 1950. Class 39.

533,440. CANNED PICKLES. WILLIAM AMERISE, doing business as Hazleton Macaroni Co., Hazleton, Pa.
Filed June 29, 1949, Serial No. 581,232. Published June 27, 1950. Class 46.

533,441. MEN'S AND BOYS' OUTER SHIRTS. CLUETT, PEABODY & CO. INC., Troy, N. Y.
Filed June 29, 1949, Serial No. 581,250. Published Aug. 1, 1950. Class 39.

533,442. LEATHER SHOES, MILITARY UNIFORMS, HOSIERY, NECKTIES, UNDER AND OUTER SHIRTS; MEN'S COATS AND CAPS. PAUL G. GALLIN CO., New York, N. Y.
Filed June 29, 1949, Serial No. 581,258. Published Aug. 15, 1950. Class 39.

533,443. NECKTIES AND SCARFS. THE RESISTO TIE CO., Baltimore, Md.
Filed July 5, 1949, Serial No. 581,539. Published June 27, 1950. Class 39.

533,444. LADIES' SCARFS. THE LOVABLE BRASSIERE CO., Atlanta, Ga.
Filed July 7, 1949, Serial No. 581,601. Published June 27, 1950. Class 39.

533,445. COLLARS. TRUBENIZING PROCESS CORPORATION, New York, N. Y.
Filed July 8, 1949, Serial No. 581,692. Published June 27, 1950. Class 39.

533,446. PRESSURE COOKERS AND PRESSURE CANNERS. NATIONAL PRESSURE COOKER COMPANY, Eau Claire, Wis.
Filed July 7, 1949, Serial No. 581,752. Published Aug. 15, 1950. Class 13.

533,447. TROUSERS FOR MEN. WILLIAM F. FRETZ & SON, Doylestown, Pa.
Filed July 16, 1949, Serial No. 581,786. Published Aug. 8, 1950. Class 39.

533,448. LEATHER FRICTION DRESSING. FREDERICK H. ECKER, doing business as Garvecol Company, Philadelphia, Pa.
Filed July 16, 1949, Serial No. 582,077. Published Aug. 15, 1950. Class 6.

533,449. CANNED VEGETABLES AND COFFEE. MORRIS SIEGEL, Wilkes-Barre, Pa.
Filed July 20, 1949, Serial No. 582,244. Published June 27, 1950. Class 46.

533,450. CANNED VEGETABLES AND COFFEE. MORRIS SIEGEL, Wilkes-Barre, Pa.
Filed July 20, 1949, Serial No. 582,247. Published June 27, 1950. Class 46.

533,451. WOMEN'S AND MISSES' COATS, SUITS, DRESSES, AND BLOUSES. FRED A. BLOCK, INC., Chicago, Ill.
Filed July 23, 1949, Serial No. 582,409. Published Aug. 15, 1950. Class 39.

533,452. CANNED FRUIT. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed July 23, 1949, Serial No. 582,413. Published June 13, 1950. Class 46.

533,453. FRESH VEGETABLES. J. S. DANENBERG, doing business as Danny Danenberg, El Centro, Calif.
Filed July 23, 1949, Serial No. 582,418. Published June 20, 1950. Class 46.

533,454. LATH PANS AND PRECAST CONCRETE JOISTS AND FILLER BLOCKS. ARNOLD STONE COMPANY OF NORTH CAROLINA, INC., doing business as Arnold Stone Company, Greensboro, N. C.
Filed Aug. 3, 1949, Serial No. 582,883. Published July 18, 1950. Class 12.

533,455. CASTERS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed Aug. 4, 1949, Serial No. 582,937. Published Aug. 15, 1950. Class 13.

533,456. CASTERS. THE BASSICK COMPANY, Bridgeport, Conn.
Filed Aug. 4, 1949, Serial No. 582,938. Published Aug. 15, 1950. Class 13.

533,457. WOMEN'S SCARVES. GRAHAM B. PEAKE, New York, N. Y.
Filed Aug. 4, 1949, Serial No. 582,995. Published July 25, 1950. Class 39.

533,458. LADIES' AND MEN'S BERETS. OCEANA IMPORTS INC., New York, N. Y.
Filed Aug. 10, 1949, Serial No. 583,281. Published July 25, 1950. Class 39.

533,459. MEDICINAL PREPARATION FOR THE TREATMENT OF MICRO-ORGANIC INFECTIONS. SCHERING CORPORATION, Bloomfield, N. J.
Filed Aug. 15, 1949, Serial No. 583,495. Published Aug. 15, 1950. Class 18.

533,460. LADIES' HOSIERY. ROBINSON MANUFACTURING COMPANY, Elizabeth City, N. C.
Filed Aug. 25, 1949, Serial No. 584,015. Published Aug. 15, 1950. Class 39.

533,461. DRUG INTENDED FOR USE IN THE TREATMENT OF HUMANS OR ANIMALS INFESTED WITH PARASITES. ABBOTT LABORATORIES, North Chicago, Ill.
Filed Aug. 27, 1949, Serial No. 584,090. Published Aug. 15, 1950. Class 18.

533,462. PREPARED MUSTARD AND PREPARED MUSTARD WITH HORSERADISH, ETC. LESTON COMPANY, St. Louis, Mo.
Filed Aug. 27, 1949, Serial No. 584,137. Published July 4, 1950. Class 46.

533,463. NECKTIES. HIS MAJESTY, INC., Poughkeepsie, N. Y.
Filed Aug. 29, 1949, Serial No. 584,197. Published Aug. 8, 1950. Class 39.

533,464. MEN'S OUTER SHIRTS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed Aug. 31, 1949, Serial No. 584,284. Published Aug. 8, 1950. Class 39.

533,465. MEN'S OUTER SHIRTS. THE MANHATTAN SHIRT COMPANY, New York, N. Y.
Filed Aug. 31, 1949, Serial No. 584,285. Published Aug. 8, 1950. Class 39.

533,466. MEN'S AND BOYS' SHIRTS. MYLAN MANUFACTURING CO., INC., New York, N. Y.
Filed Aug. 30, 1949, Serial No. 584,370. Published Aug. 8, 1950. Class 39.

533,467. PEARL NECKLACES, PEARL EARRINGS, PEARL BRACELETS, STRINGS OF PEARLS, ALL PEARL JEWELRY FOR PERSONAL WEAR AND ADORNMENT NOT INCLUDING WATCHES. WEINREICH BROTHERS COMPANY, New York, N. Y.
Filed Sept. 3, 1949, Serial No. 584,474. Published Aug. 8, 1950. Class 28.

533,468. AUTOMOBILE SEAT COVERS. GAMBLE-SKOGMO, INC., Minneapolis, Minn.
Filed Sept. 6, 1949, Serial No. 584,489. Published Aug. 8, 1950. Class 19.

533,469. METAL COMBINATION STORM WINDOWS. ACE INDUSTRIES COMPANY, Youngstown, Ohio.
Filed Sept. 27, 1949, Serial No. 585,356. Published Aug. 8, 1950. Class 12.

533,470. METAL COMBINATION STORM WINDOWS. ACE INDUSTRIES COMPANY, Youngstown, Ohio.
Filed Sept. 27, 1949, Serial No. 585,357. Published Aug. 8, 1950. Class 12.

533,471. MEDICINAL PREPARATION COMPRISING AS ITS PRINCIPAL INGREDIENTS RUTIN AND ASCORBIC ACID. R. J. STRASENBURGH COMPANY, Rochester, N. Y.
Filed Oct. 6, 1949, Serial No. 585,869. Published Aug. 15, 1950. Class 18.

533,472. CHILDREN'S TOILET SEATS. COLUMBIA PROTEKTOSITE COMPANY INC., Carlstadt, N. J.
Filed Oct. 8, 1949, Serial No. 585,992. Published Aug. 15, 1950. Class 13.

533,473. MEN'S, WOMEN'S, AND CHILDREN'S SHOES, MADE OF LEATHER, KID, FABRIC, AND KINDRED MATERIALS. CURTIS-STEPHENS-EMBRY CO., INC., Reading, Pa.
Filed Oct. 14, 1949, Serial No. 586,269. Published July 11, 1950. Class 39.

533,474. LOOM TEMPLES. DRAPER CORPORATION, Portland, Maine, and Hopedale, Mass.
Filed Oct. 22, 1949, Serial No. 586,687. Published Aug. 8, 1950. Class 23.

533,475. HAT BRAIDS. HENRY POLLAK, INC., New York, N. Y.
Filed Oct. 26, 1949, Serial No. 586,878. Published July 25, 1950. Class 40.

533,476. SELF-TAPPING SCREWS, DRIVE SCREWS, SCREWNAILS, AND MASONRY NAILS IN ASSEMBLY WITH RUBBER WASHERS. PARKER-KALON CORPORATION, New York, N. Y.
Filed Oct. 28, 1949, Serial No. 586,985. Published Aug. 15, 1950. Class 13.

533,477. DOORS AND DOOR FRAMES. THE AMERICAN-WELDING AND MANUFACTURING COMPANY, Warren, Ohio.
Filed Sept. 30, 1949, Serial No. 587,599. Published Aug. 8, 1950. Class 12.

533,478. SHEETS AND PILLOW CASES. ARKWRIGHT, INCORPORATED, New York, N. Y.
Filed Nov. 23, 1949, Serial No. 588,195. Published Aug. 1, 1950. Class 42.

533,479. BENZENE HEXACHLORIDE, BENZALDEHYDE, BENZOL, AND BENZOATE OF SODA. TENNESSEE PRODUCTS & CHEMICAL CORPORATION, Nashville, Tenn.
Filed Nov. 25, 1949, Serial No. 588,335. Published Aug. 15, 1950. Class 6.

533,480. INSECTICIDES. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed Nov. 30, 1949, Serial No. 588,554. Published Aug. 15, 1950. Class 6.

533,481. LADIES' SHOES OF LEATHER AND/OR FABRIC. COSMOS SHOE CO. INC., New York, N. Y.
Filed Dec. 3, 1949, Serial No. 588,744. Published Aug. 15, 1950. Class 39.

533,482. TEXTILE FABRIC GLASS CURTAINS, MADE OF ANY OF THE MATERIALS USUALLY EMPLOYED FOR THAT PURPOSE, SUCH AS SCRIM, MARQUISETTE, VOILE, ORGANDY, CASEMENT CLOTH, ETC. FAIRCLOUGH & GOLD, INC., Boston, Mass.
Filed Dec. 8, 1949, Serial No. 589,017. Published Aug. 15, 1950. Class 42.

533,483. COTTON PIECE GOODS. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed Dec. 9, 1949, Serial No. 589,059. Published Aug. 15, 1950. Class 42.

533,484. EMERGENCY SKID CHAIN APPLYING TOOL. RALPH D. PARKER, doing business under the name and style of Snow Joe Company, Newark, N. J.
Filed Dec. 12, 1949, Serial No. 589,227. Published July 18, 1950. Class 23.

533,485. FENDERWELTING. CROTTY CORPORATION, Quincy, Mich.
Filed Dec. 14, 1949, Serial No. 589,306. Published July 18, 1950. Class 35.

533,486. WOOLEN PIECE GOODS. W. P. WILLIS & CO., INC., New York, N. Y.
Filed Dec. 14, 1949, Serial No. 589,355. Published Aug. 15, 1950. Class 42.

533,487. SHOE SOLES. AVON SOLE COMPANY, Avon, Mass.
Filed Oct. 22, 1949, Serial No. 589,403. Published Aug. 15, 1950. Class 39.

533,488. PIECE GOODS CONSISTING OF MIXTURES OF RAYON AND NYLON. PACIFIC MILLS, Boston, Mass., and New York, N. Y.
Filed Dec. 17, 1949, Serial No. 589,524. Published Aug. 15, 1950. Class 42.

533,489. RAYON PIECE GOODS. CANTOR-GREENSPAN CO., INC., New York, N. Y.
Filed Dec. 21, 1949, Serial No. 589,708. Published Aug. 15, 1950. Class 42.

533,490. CUTTER CHAIN, CUTTER-CHAIN SPROCKETS, CUTTER-HEAD SHOES, CUTTER BARS, CUTTER BITS, AND CUTTER HEADS FOR MINING. THE CINCINNATI MINE MACHINERY CO., Cincinnati, Ohio.
Filed Dec. 23, 1949, Serial No. 589,830. Published Aug. 1, 1950. Class 23.

533,491. COTTON GOODS IN THE PIECE. AVONDALE MILLS, Sylacauga, Ala.
Filed Dec. 24, 1949, Serial No. 589,885. Published Aug. 15, 1950. Class 42.

533,492. FRICTION ELEMENTS FOR BRAKES AND CLUTCHES; FAN BELTS, RADIATOR HOSE AND GENERAL COUPLINGS, PARTLY MADE OF RUBBER. AMERICAN BRAKE SHOE COMPANY, New York, N. Y.
Filed Dec. 29, 1949, Serial No. 590,053. Published July 18, 1950. Class 35.

533,493. FABRICS IN THE PIECE COMPOSED OF COTTON, WOOL, SILK, AND SYNTHETIC FIBERS. CROMPTON COMPANY, Crompton, R. I.
Filed Dec. 31, 1949, Serial No. 590,218. Published Aug. 15, 1950. Class 42.

533,494. COTTON RUGS. LAWRENCE PRODUCTS COMPANY, INC., Attalla, Ala.
Filed Dec. 31, 1949, Serial No. 590,227. Published Aug. 15, 1950. Class 42.

533,495. BURIAL VAULTS. WILBERT W. HAASE CO., Forest Park, Ill.
Filed Feb. 3, 1950, Serial No. 591,925. Published Aug. 15, 1950. Class 2.

533,496. CHOLINE AND INOSITOL IN DOSAGE FORM. WYETH INCORPORATED, Philadelphia, Pa.
Filed Mar. 17, 1950, Serial No. 594,166. Published Aug. 8, 1950. Class 18.

Service Marks

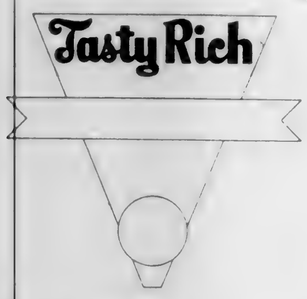
533,497. PUBLICIZING ORIGINAL SONGS SUBMITTED BY AMATEURS AND ADVERTISING THE GOODS AND SERVICES OF SPONSORS THROUGH THE MEDIUM OF A RADIO PROGRAM. EDWARD R. FRENCH, doing business under the name Top Tunes Company, Ocean City, N. J.
Filed June 22, 1948, Serial No. 559,961. Published Aug. 15, 1950. Class 101.

533,498. SERVICES RENDERED IN CONNECTION WITH OIL WELLS—NAMELY, ELECTRICALLY MEASURING THE CHARACTERISTICS OF SUBSURFACE STRATA SURROUNDING BORE HOLES. SCHLUMBERGER WELL SURVEYING CORPORATION, Houston, Tex.
Filed Oct. 7, 1949, Serial No. 585,954. Published Aug. 15, 1950. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

533,499. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FOOD SPECIALTIES, INC., Indianapolis, Ind. Original filed, act of 1905, Dec. 15, 1945; amended to application under act of 1946, Supplemental Register, June 2, 1948, Serial No. 493,336.



FOR PEANUT BUTTER AND SALAD DRESSINGS.
Claims use since Nov. 10, 1945.

533,500. (CLASS 19. VEHICLES.) AMERICAN CARRY-PRODUCTS COMPANY, INC., North Hollywood, Calif., assignee of American Products Company. Original filed, act of 1905, May 20, 1946; amended to application under act of 1946, Supplemental Register, Aug. 27, 1948, Serial No. 502,417.

THE CARRY-CART

FOR BABY STROLLER.
Claims use since Apr. 19, 1946.

533,501. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THOMSON-PORCELITE PAINT CO., Philadelphia, Pa. Original filed, act of 1905, Nov. 19, 1946; amended to application under act of 1946, Supplemental Register, Apr. 26, 1949, Serial No. 512,872.

SURFACE PREP

FOR LIQUID PREPARATION FOR REMOVING GLOSS FROM PAINTED AND ENAMELED SURFACES; FOR APPLICATION TO PAINTED AND ENAMELED SURFACES TO RENDER SAME TACKY AND TO PREVENT CHIPPING OF THE NEW FINISH; FOR MIXING WITH PAINTS AND ENAMELS TO CAUSE SAME TO ANCHOR MORE FIRMLY TO THE SURFACE TO BE COATED; AND FOR MIXING WITH PAINT OR ENAMEL TO RENDER SAME EASY TO APPLY IN A SMOOTH, EVEN FILM TO PREVENT RUNS AND SAGS, AND ASSURE GOOD DRYING OF THE NEW FINISH.
Claims use since June 1, 1946.

533,502. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GORDON JOHNSTON COMPANY, Kansas City, Mo. Original filed, act of 1905, Dec. 14, 1946; amended to application under act of 1946, Supplemental Register, Mar. 25, 1948, Serial No. 514,277.

The drawing is stippled for shading.
FOR POULTRY PICKING MACHINES AND MACHINES FOR STRIPPING LEAVES FROM TREES AND SHRUBS.
Claims use since Aug. 1, 1946.

533,503. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ARGIRO HERMANOS, Buenos Aires, Argentina. Original filed, act of 1905, Mar. 29, 1947; amended to application under act of 1946, Principal Register, Nov. 12, 1947; amended to Supplemental Register, Jan. 31, 1950, Serial No. 519,820.

ARGIRÓ

Applicant claims ownership of Argentinean Registration No. 194,519, dated Mar. 7, 1941.
FOR ELECTRIC MOTORS, ELECTRIC FANS, DYNAMOS, RECEIVING AND TRANSMITTING SETS, ELECTRIC CLOTH CUTTERS.
Claims use since Mar. 7, 1941, and use in commerce between Argentina and the United States in the year 1948.

533,504. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SAVAL COMPANY, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 9, 1947; amended to application, Supplemental Register, July 25, 1949, Serial No. 530,963.

"Shear-Seal"

FOR CONTROL VALVES TO REGULATE THE FLOW OF GASES, LIQUIDS OR FLUIDS AND INTEGRAL PARTS OF "SHEAR SEAL" VALVES AFORE-DESCRIBED.
Claims use since Sept. 1, 1944.

533,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA ALMOND GROWERS EXCHANGE, Sacramento, Calif. Original filed, act of 1946, Principal Register, Sept. 24, 1947; amended to application, Supplemental Register, Feb. 18, 1949, Serial No. 535,479.

GOLDEN STATE

Applicant claims ownership of Registration No. 276,348.
FOR SHELLED AND UNSHELLED ALMONDS.
Claims use since Nov. 2, 1927.

533,506. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ELECTRIC GAME COMPANY, INC., Holyoke, Mass. Original filed, act of 1946, Principal Register, Sept. 8, 1947; amended to application, Supplemental Register, Aug. 16, 1949, Serial No. 542,392.

ELECTRIC FOOTBALL

Applicant claims ownership of Registration No. 407,556.
FOR BOARD GAMES PLAYED WITH MOVABLE PIECES.
Claims use since June 1, 1934.

533,507. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PERRY COMPANY, Camilla, Ga. Original filed, act of 1946, Principal Register, Dec. 29, 1947; amended to application, Supplemental Register, June 22, 1950, Serial No. 545,642.

Perry's

FOR SALTED PEANUTS.
Claims use since Feb. 1, 1946.

533,508. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WAGNER BROTHERS, INC., Detroit, Mich. Original filed, act of 1946, Principal Register, Mar. 4, 1948; amended to application, Supplemental Register, May 3, 1950, Serial No. 551,211.

FLAT TOP

FOR METAL ANODES.
Claims use since Nov. 20, 1947.

533,509. (CLASS 4. ABRASIVES AND POLISHING MATERIALS.) G. HAROLD GILROY, doing business as Belvidere Laboratories, Belvidere, Ill. Original filed, act of 1946, Principal Register, Mar. 30, 1948; amended to application, Supplemental Register, May 5, 1949, Serial No. 553,359.

Metalglas

FOR PREPARATION IN PASTE FORM FOR POLISHING METAL, SILVERWARE, GLASS, PORCELAIN, AND ENAMEL.
Claims use since November 1933.

533,510. (CLASS 12. CONSTRUCTION MATERIALS.) OLAF J. OLMSTEAD, Janesville, Wis. Original filed, act of 1946, Principal Register, June 15, 1948; amended to application, Supplemental Register, July 22, 1950, Serial No. 559,238.

QUIK - WAY

FOR CLIPS FOR SUPPORTING FURRING AND THE LIKE—NAMELY, BRACKETS FOR FURRING, WALL REINFORCING STRIPS, AND TELLTALES FOR WALLS FOR INDICATING THE LOCATION OF EMBEDDED SUPPORTS.
Claims use since June 7, 1948.

533,511. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) W. DENT DOWLER, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 22, 1948; amended to application, Supplemental Register, Jan. 27, 1950, Serial No. 561,910.

talent toys by the Dowlers..

The drawing is lined for shading only.
FOR EDUCATIONAL TOYS FOR CHILDREN—NAMELY, EASELS FOR PAINTING OF THE MINIATURE TOY TYPE, BLACKBOARDS OF THE MINIATURE TOY TYPE, WATER COLOR PAINTS FOR FINGER PAINTING, CLAY FOR MOULDING OBJECTS, AND BOXES CONTAINING ONE OR MORE OF THE FOREGOING SOLD WITH PAINTING BRUSHES, CUPS, CRAYONS, CHALK, AND WATER COLORS AS A UNIT.
Claims use since June 18, 1948.

533,512. (CLASS 12. CONSTRUCTION MATERIALS.) WILBERT W. HAASE CO., Forest Park, Ill. Original filed, act of 1946, Principal Register, Sept. 2, 1948; amended to application, Supplemental Register, June 26, 1950, Serial No. 564,568.

SUPERSEAL

FOR ASPHALTIC SEALING COMPOSITION ESPECIALLY ADAPTED FOR USE IN SEALING CONCRETE BURIAL VAULTS.
Claims use since Aug. 5, 1948.

533,513. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SOMAY PRODUCTS, INC., Miami, Fla. Filed Nov. 18, 1948, Serial No. 569,019.

Only the Original Has the Red Top Hat

FOR OIL PAINT.
Claims use since May 15, 1947.

533,514. (CLASS 12. CONSTRUCTION MATERIALS.) VOORHEES RUBBER MFG. CO. INC., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 26, 1948; amended to application, Supplemental Register, May 22, 1950. Serial No. 569,496.

VOORHEES
RUBBER TILE
for Permanent Beauty
Durability and Economy

Applicant claims ownership of Registration No. 170,255.
FOR RUBBER FLOORING IN TILE FORM.
Claims use since Oct. 8, 1948.

533,515. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRIDE O' TEXAS CITRUS ASSOCIATION, Mission, Tex. Original filed, act of 1946, Principal Register, Dec. 17, 1948; amended to application, Supplemental Register, June 22, 1950, Serial No. 570,721.

HI SWEET

FOR FRESH CITRUS FRUIT.
Claims use since Nov. 12, 1948.

533,516. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) SOUTHERN COAL COMPANY, INC., Memphis, Tenn. Original filed, act of 1946, Principal Register, Feb. 14, 1949; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 573,853.

Powerhouse

FOR COAL.
Claims use since Jan. 24, 1949.

533,517. (CLASS 51. COSMETICS AND TOILET PREPARATIONS.) ADOLPH HORNER, doing business as Savoye Specialty Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 19, 1949; amended to application, Supplemental Register, Aug. 25, 1950, Serial No. 574,146.

HORNER'S
"FIRST OF IT'S KIND"
LIQUID
SHAVE

FOR LIQUID SHAVING CREAM, AND BEARD SOFTENER.
Claims use since Aug. 25, 1948.

533,518. (CLASS 34. HEATING, LIGHTING AND VENTILATING APPARATUS. JACKSON AND CHURCH COMPANY, Saginaw, Mich. Original filed, act of 1946, Principal Register, Mar. 15, 1949; amended to application, Supplemental Register, Mar. 3, 1950, Serial No. 575,472.

Poweraire

FOR COAL, OIL, AND GAS-FIRED FURNACES FOR USE IN HOME AND FACTORY HEATING.
Claims use since Jan. 15, 1948.

533,519. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOMA LINDA FOOD COMPANY, Arlington, Calif. Original filed, act of 1946, Principal Register, Apr. 12, 1949; amended to application, Supplemental Register, July 3, 1950, Serial No. 576,976.

GRAVY QUIK

FOR GRAVY MIX, MADE FROM WHEAT FLOUR, YEAST EXTRACT, SHORTENING, ONION POWDER, SOY MILK SOLIDS, CARAMEL, SALT, ARTIFICIALLY FLAVORED WITH HYDROLYZED VEGETABLE PROTEIN.
Claims use since Oct. 14, 1948.

533,520. (CLASS 12. CONSTRUCTION MATERIALS.) PEASE WOODWORK COMPANY, INC., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Apr. 22, 1949; amended to application, Supplemental Register, Aug. 29, 1950, Serial No. 577,548.

PEASE-FABRICATED HOME

Applicant claims ownership of Registrations Nos. 382,020 and 371,664.
FOR PREFABRICATED SECTIONAL HOUSES.
Claims use since Feb. 17, 1949.

533,521. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) PITTSBURGH WATERPROOF COMPANY, Pittsburgh, Pa. Original filed, act of 1946, Principal Register, May 13, 1949; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 578,819.

EMERALD

FOR TABLE FELT.
Claims use since Jan. 1, 1929.

533,522. (CLASS 2. RECEPTACLES.) SPERRY MFG. CO., Providence, R. I. Original filed, act of 1946, Principal Register, May 26, 1949; amended to application, Supplemental Register, July 14, 1950, Serial No. 579,565.

Sperry

FOR COMPACT CASES SOLD EMPTY.
Claims use since Jan. 1, 1947.

533,523. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PLASTIC SHEETING COMPANY, Portland, Oreg. Original filed, act of 1946, Principal Register, June 1, 1949; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 579,832.

Plasti-Creel

FOR PLASTIC FISHING CREELS.
Claims use since Sept. 1, 1948.

533,524. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATALANTA PRODUCTS CORP., New York, N. Y. Original filed, act of 1946, Principal Register, June 6, 1949; amended to application, Supplemental Register, May 22, 1950, Serial No. 580,009.

Krakus

FOR CANNED HAM.
Claims use since Dec. 1, 1948.

533,525. (CLASS 12. CONSTRUCTION MATERIALS.) DARGAN LUMBER MANUFACTURING COMPANY, Conway, S. C. Original filed, act of 1946, Principal Register, June 18, 1949; amended to application, Supplemental Register, June 17, 1950, Serial No. 580,718.

SUPERIOR DARGAN LUMBER

FOR LUMBER.
Claims use since Jan. 1, 1949.

533,526. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ROBERT PEACOCK, doing business as Peacock Products, St. Petersburg, Fla. Original filed, act of 1946, Principal Register, Aug. 2, 1949; amended to application, Supplemental Register, Sept. 1, 1950, Serial No. 582,854.

HANG AN CLIP

FOR COMPOSITE GARMENT HANGERS AND ARTICLE HOLDERS.
Claims use since June 24, 1949.

533,527. (CLASS 12. CONSTRUCTION MATERIALS.) MILLER VENTILATED AWNING CO., INC., Montgomery, Ala. Filed Jan. 16, 1950, Serial No. 590,939.

MILLER

FOR SHEET METAL AWNINGS.
Claims use since July 2, 1948.

533,528. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARROW MANUFACTURING COMPANY, Denver, Colo. Original filed, act of 1946, Principal Register, May 1, 1950; amended to application, Supplemental Register, Sept. 8, 1950, Serial No. 596,646.

STREAMLINER

Applicant claims ownership of Registration No. 433,570.
FOR TRACTOR-DRAWN RIPPERS, TRACTOR BULLDOZER AND ANGLE-DOZER BLADE ATTACHMENTS, AND TRACTOR-ATTACHABLE SNOWPLOW UNITS.
Claims use since January 1948.

TRADE-MARK REGISTRATIONS RENEWED

34,328. AJAX. Registered Mar. 20, 1900. Alexander F. Reid. Re-renewed Mar. 20, 1950, to The Gardy-Travers Company, Inc., New York, N. Y., a corporation of New York. BRAIDED COTTON SASH-CORD, HOP-TWINE, AND MATTRESS-TWINE. Class 7.

34,329. HERCULES. Registered Mar. 20, 1900. Alexander F. Reid. Re-renewed Mar. 20, 1950, to The Grady-Travers Company, Inc., New York, N. Y., a corporation of New York. BRAIDED SASH-CORDS AND FLAX THREAD OR GILLING-THREAD. Class 7.

35,185. "LYLE'S GOLDEN SYRUP" ETC. AND DRAWING. Registered Oct. 2, 1900. Abram Lyle & Sons, Limited. Re-renewed Oct. 2, 1950, to Tate & Lyle, Limited, London, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. SYRUP. Class 46.

35,599. "MALTEX" AND DRAWING. Registered Dec. 18, 1900. The Malted Cereals Co. Re-renewed Dec. 18, 1950, to Maltex Company, Burlington, Vt., a firm. FLOUR, BREAD, BISCUIT, CRACKERS AND CEREALS. Class 46.

35,700. REPRESENTATION OF CROSS AND STAR. Registered Jan. 1, 1901. American Swiss File & Tool Co., Elizabeth, N. J., a corporation of New Jersey. Re-renewed Jan. 1, 1951. FILES AND HAND-TOOLS, SUCH AS USED BY MACHINISTS, DIE-SINKERS, ENGRAVERS, JEWELERS, SILVERSMITHS, AND DENTISTS. Class 23.

35,701. REPRESENTATION OF CROSS AND TWO STARS. Registered Jan. 1, 1901. American Swiss File & Tool Co., Elizabeth, N. J., a corporation of New Jersey. Re-renewed Jan. 1, 1951. FILES AND HAND-TOOLS. Class 23.

77,401. REPRESENTATION OF FLAMING TORCH. Registered Apr. 5, 1910. J. J. Saville & Company, Limited, Sheffield, England, a corporation organized under the laws of Great Britain. Re-renewed Apr. 5, 1950. TOOL-STEEL AND STEEL IN BAR, ROD, SHEET, AND OTHER UNWROUGHT AND PARTLY-WROUGHT FORMS. Class 14.

77,420. TRIUMPH. Registered Apr. 5, 1910. J. J. Saville & Company Limited, Sheffield, England, a corporation organized under the laws of Great Britain. Re-renewed Apr. 5, 1950. TOOL-STEEL AND STEEL IN BAR, ROD, SHEET, AND OTHER UNWROUGHT AND PARTLY-WROUGHT FORMS. Class 14.

78,221. ZIMMERMAN'S. Registered May 31, 1910. G. F. S. Zimmerman & Company. Re-renewed May 31, 1950, to The G. F. S. Zimmerman Co., Inc., Frederick, Md., a corporation of Maryland. SHUTTER-FASTENERS. Class 13.

79,104. REPRESENTATION OF LIFE PRESERVER. Registered Aug. 9, 1910. Cling-surface Company, Buffalo, N. Y., a corporation of New York. Re-renewed Aug. 9, 1950. PRESERVATIVES FOR TRANSMISSION BELTS AND ROPES. Class 6.

79,107. C B. F. CO. AND DESIGN. Registered Aug. 9, 1910. Crescent Belt Fastener Company. Re-renewed Aug. 9, 1950, to Crescent Belt Fastener Company, Inc., New York, N. Y., a corporation of New York. FASTENERS, PLATES, CLAMPS, AND RIVETS MADE OF ANY METAL FOR MACHINERY BELTING. Class 13.

79,186. FLORIDIN. Registered Aug. 16, 1910. Hermann Bensmann, Bremen, Germany. Re-renewed Aug. 16, 1950, to The Chemical Foundation, Incorporated, New York, N. Y., a corporation of New York. MINERAL POWDER FOR DECOLORIZING OIL. Class 6.

79,322. PERFLO. Registered Aug. 30, 1910. Binney & Smith Company, East Orange, N. J., and New York, N. Y. Re-renewed Aug. 30, 1950, to The Peerless Carbon Black Company, Pittsburgh, Pa., a corporation of West Virginia. PIGMENT FOR PAINTS. Class 16.

79,441. REPRESENTATION OF RECTANGULAR FIGURE WITH HEAVY BAR EXTENDING VERTICALLY ACROSS SAME. Registered Sept. 6, 1910. North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut. Re-renewed Sept. 6, 1950. HARNESS RINGS, HOOKS AND LOOPS, SPURS, STIRRUPS, BITS, ETC. Class 3.

79,442. "OSHKOSH" ETC. AND DRAWING. Registered Sept. 6, 1910. The Oshkosh Brewing Company. Re-renewed Sept. 6, 1950, to Oshkosh Brewing Company, Oshkosh, Wis., a corporation of Wisconsin. BEER. Class 48.

79,610. QUINARSIN. Registered Sept. 20, 1910. Sharp & Dohme, Baltimore, Md. Re-renewed Sept. 20, 1950, to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland. REMEDY FOR THE TREATMENT OF MALARIA. Class 18.

79,690. P-Q-A. Registered Sept. 27, 1910. The Piqua Hosiery Co. Re-renewed Sept. 27, 1950, to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio. KNITTED UNDERSHIRTS, DRAWERS, AND UNION SUITS. Class 39.

79,915. DAG. Registered Oct. 18, 1910. International Acheson Graphite Co., Niagara Falls, N. Y. Re-renewed Oct. 18, 1950, to Acheson Colloids Corporation, Port Huron, Mich., a corporation of Michigan. LUBRICANTS CONTAINING GRAPHITE. Class 15.

79,954. MERCER. Registered Oct. 25, 1910. The American Thread Company, Jersey City, N. J. Re-renewed Oct. 25, 1950, to The American Thread Company, New York, N. Y., a corporation of New Jersey. SPOOL-COTTON, SEWING-COTTON, THREAD AND COTTON YARN. Class 43.

80,092. REPRESENTATION OF PORTRAIT OF DR. J. F. TRUE. Registered Nov. 1, 1910. Dr. J. F. True & Co., Inc., Auburn, Maine. Re-renewed Nov. 1, 1950, to Dr. J. F. True & Co., Inc., Natick, Mass., a corporation of Massachusetts. VERMIFUGE AND REMEDIES FOR INDIGESTION, BILIOUSNESS, HEADACHE, ETC. Class 18.

80,276. FARMSIDE. Reigstered Nov. 29, 1910. Fort Stanwix Canning Company, Rome, N. Y. Re-renewed Nov. 29, 1950, to General Foods Corporation, New York, N. Y., a corporation of Delaware. CANNED FRUITS AND VEGETABLES. Class 46.

80,310. DERMATYPE. Registered Dec. 6, 1910. Louis E. Fuller, New York, N. Y. Re-renewed Dec. 6, 1950, to A. B. Dick Company, Niles, Ill., a corporation of Illinois. STENCIL-PAPER AND STENCILS. Class 37.

80,388. KINGSLEY. Registered Dec. 13, 1910. S. Stein & Co. Re-renewed Dec. 13, 1950, to Kingsley Fabrics, Inc., New York, N. Y., a corporation of New York. WOOLEN PIECE GOODS. Class 42.

80,424. THIGENOL. Registered Dec. 20, 1910. The Hoffmann-La Roche Chemical Works, New York, N. Y. Re-renewed Dec. 20, 1950, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. A REMEDY FOR CUTANEOUS DISEASES. Class 18.

257,462. GULF. Registered June 11, 1929. Gulf Vegetable & Fruit Company. Renewed June 11, 1949, to Gulf Vegetable and Fruit Company, Inc., also doing business as Gulf Distributing Company, Weslaco, Tex., a corporation of Texas. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT; ETC. Class 46.

272,605. STANDARD RATE & DATA SERVICE. Registered July 8, 1930. Standard Rate & Data Service, Inc., Chicago, Ill., a corporation of Illinois. Renewed July 8, 1950. PERIODICAL PUBLICATION ISSUED MONTHLY AND ALSO AT IRREGULAR SHORTER INTERVALS. Class 38.

272,638. POLYCHROME FLINTS. Registered July 8, 1930. Franklin Pottery (Inc.), Lansdale, Pa. Renewed July 8, 1950, to American Encaustic Tiling Company, Inc., New York, N. Y., and Lansdale, Pa., a corporation of New York. WALL AND FLOOR TILES USED FOR THEIR DECORATIVE, SANITARY, OR SURFACE-WEARING QUALITIES. Class 12.

272,896. "JL" ETC. AND DESIGN. Registered July 15, 1930. John Layton & Co., Ltd., London, England, a corporation organized under the laws of Great Britain. Renewed July 15, 1950. LIQUID EGGS IN A FROZEN STATE. Class 46.

273,415. "BESTMAID" AND DESIGN. Registered Aug. 5, 1930. New York Merchandise Co., Inc., New York, N. Y., a corporation of New York. Renewed Aug. 5, 1950. COMBS NOT MADE OF PRECIOUS METAL. Class 40.

273,450. MOULDETTE. Registered Aug. 5, 1930. The William Carter Company, Needham Heights, Mass., a corporation of Massachusetts. Renewed Aug. 5, 1950. LADIES' UNDERWEAR OF KNITTED OR TEXTILE FABRIC, CORSETS, BRASSIÈRES, GIRDLES, AND A COMBINATION OF GIRDLE AND BRASSIÈRE. Class 39.

273,506. MILWAUKEE BOY. Registered Aug. 5, 1930. Pabst Corporation, Milwaukee, Wis. Renewed Aug. 5, 1950, to Pabst Brewing Company, Chicago, Ill., a corporation of Delaware. MALT SYRUP. Class 46.

273,542. "FLEW COUGH SYRUP" AND DESIGN. Registered Aug. 5, 1930. Benjamin R. Faunce, Riverside, N. J. Renewed Aug. 5, 1950, to Maude F. Faunce, Medford, N. J. COUGH SYRUP. Class 18.

273,546. TUMBLER LINED FOR RED. Registered Aug. 5, 1930. Joseph A. Tumbler, assignor to J. A. Tumbler Laboratories. Renewed Aug. 5, 1950, to J. A. Tumbler Laboratories, Inc., Baltimore, Md., a corporation of Maryland. CLEANER AND POLISH FOR AUTOMOBILES AND FURNITURE. Class 4.

273,575. TRU-LOK. Registered Aug. 5, 1930. Amalgamated Roofing Company. Renewed Aug. 5, 1950, to The Logan-Long Company, Chicago, Ill., a corporation of Ohio. SHINGLES. Class 12.

273,770. NATIONAL CREST. Registered Aug. 12, 1930. Geo. W. Caswell Co., San Francisco, Calif., a corporation of California. Renewed Aug. 12, 1950. COFFEE. Class 46.

273,939. FAUBY. Registered Aug. 19, 1930. Lionel Trading Co. Inc. Renewed Aug. 19, 1950, to Parfums Corday, Inc., New York, N. Y., a corporation of New York. PERFUMES, TOILET WATERS, FACE LOTIONS, FACE CREAMS, FACE POWDERS, ROUGES, AND LIP STICKS. Class 51.

274,044. BEL-AIRE. Registered Aug. 19, 1930. Gude's, Inc., Los Angeles, Calif., a corporation of California. Renewed Aug. 19, 1950. SHOES MADE OF LEATHER AND FABRIC, AND COMBINATIONS THEREOF. Class 39.

274,159. COLE'S. Registered Aug. 19, 1930. Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Renewed Aug. 19, 1950, to Cole Chemical Company, St. Louis, Mo., a corporation of Delaware. ENDOCRINE COMPOUNDS, CERISAL PREPARATIONS, KAVA KAVA, ETC. Class 18.

274,173. GEE-WHIZ. Registered Aug. 19, 1930. Hyman Hendel, New York, N. Y. Renewed Aug. 19, 1950. MEN'S AND BOYS' NECKTIES, MUFFLERS, AND HANDKERCHIEFS IN SETS. Class 39.

274,320. CHARMING. Registered Aug. 26, 1930. Max Kronstadt, doing business as Bristol Seamless Ring Co. Renewed Aug. 26, 1950, to Bristol Seamless Ring Company, New York, N. Y., a firm. FINGER RINGS. Class 28.

274,476. MENTHOLYPTUS. Registered Aug. 26, 1930. Hall Brothers (Whitefield) Limited, Whitefield, near Manchester, England, a British Company. Renewed Aug. 26, 1950. MEDICATED SWEETMEATS CONTAINING MENTHOL AND EUCALYPTUS FOR USE AS A PREVENTATIVE AGAINST COUGHS, COLDS, INFLUENZA, AND SIMILAR COMPLAINTS. Class 18.

274,533. THE CATHOLIC SCHOOL JOURNAL. Registered Sept. 2, 1930. The Bruce Publishing Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Sept. 2, 1950. PERIODICALS. Class 38.

274,611. AMERICAN OPTICAL VISION. Registered Sept. 2, 1930. American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts. Renewed Sept. 2, 1950. MAGAZINES OR PERIODICALS. Class 38.

274,686. PROF. A. T. WARD. Registered Sept. 2, 1930. The A. T. Ward Manufacturing Company. Renewed Sept. 2, 1950, to A. T. Ward Distributing Company, Cincinnati, Ohio, a corporation of Ohio. PREPARATION FOR THE TREATMENT OF CORNS, BUNIONS, AND CALLOUSES. Class 18.

275,086. "GOLDEN STATE" ETC. AND DESIGN LINED FOR RED AND GOLD. Registered Sept. 16, 1930. Golden State Milk Products Company. Renewed Sept. 16, 1950, to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware. BUTTER. Class 46.

275,109. "MERCURY" AND DRAWING. Registered Sept. 16, 1930. A. G. Spalding & Bros., New York, N. Y. Renewed Sept. 16, 1950, to A. G. Spalding & Bros. Inc., Chicopee, Mass., a corporation of Delaware. TENNIS RACKETS. Class 22.

275,149. OUTGRO. Registered Sept. 16, 1930. Wyeth Chemical Company, Wilmington, Del. Renewed Sept. 16, 1950, to Whitehall Pharmacal Company, New York, N. Y., a corporation of Illinois. MEDICINAL PREPARATION FOR THE TREATMENT OF INGROWING NAILS. Class 18.

275,440. NARRO-LUBE. Registered Sept. 23, 1930. Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts. Renewed Sept. 23, 1950. COMBINED TANK AND PUMP OUTFITS OF THE SELF-MEASURING TYPE FOR HANDLING OILS AND THE LIKE. Class 26.

275,501. BRIDGEPORT PLUMRITE STANDARD. Registered Sept. 23, 1930. Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut. Renewed Sept. 23, 1950. PIPING, TUBING, PIPE FITTINGS, PIPE COUPLINGS, VENT TUBES, AND SINK TRAPS, ALL OF METAL. Class 13.

275,502. BRIDGEPORT PLUMRITE COPPER. Registered Sept. 23, 1930. Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut. Renewed Sept. 23, 1950. PIPING, TUBING, PIPE FITTINGS, PIPE COUPLINGS, VENT TUBES, AND SINK TRAPS, ALL OF METAL. Class 13.

275,504. CARBORADIANT. Registered Sept. 23, 1930. The Carborundum Company. Renewed Sept. 23, 1950, to The Carborundum Company, Ningara Falls, N. Y., a corporation of Delaware. FURNACES AND PARTS THEREOF; RADIATING COMBUSTION CHAMBERS, ETC. Class 34.

275,571. "HILL'S CASCARA QUININE" ETC. AND PORTRAIT. Registered Sept. 23, 1930. The Larned Company, Detroit, Mich., assignor to The Larned Corporation. Renewed Sept. 23, 1950, to Whitehall Phar-

macal Company, New York, N. Y., a corporation of Illinois. MEDICINAL PREPARATION FOR THE TREATMENT OF COLDS AND HEADACHES. Class 18.

275,724. PALCO REDWOOD. Registered Sept. 30, 1930. The Pacific Lumber Company of Illinois, Chicago, Ill. Renewed Sept. 30, 1950, to The Pacific Lumber Company, San Francisco, Calif., a corporation of Maine. LUMBER AND MILLWORK. Class 12.

275,779. "RED TOP" AND DRAWING LINED FOR RED. Registered Sept. 30, 1930. Topp Oil & Supply Co. Renewed Sept. 30, 1950, to Topp Oil & Chemical Co., Milwaukee, Wis., a corporation of Wisconsin. LEMON HAND SOAP. Class 52.

276,026. H.S.G. Registered Oct. 7, 1930. Henri S. Gompes. Renewed Oct. 7, 1950, to Ruth Gompes, New York, N. Y. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, ETC. Class 51.

276,153. ELEKTROX. Registered Oct. 7, 1930. Clean Home Products Corporation, assignor to Apex Products Corporation. Renewed Oct. 7, 1950, to Clean Home Products, Inc., Chicago, Ill., a corporation of Delaware. DISINFECTANT AND DEODORANT. Class 6.

276,534. DURAGRIP. Registered Oct. 21, 1930. Phillips' Patents Limited, London, England, a company organized under the laws of Great Britain. Renewed Oct. 21, 1950. INDIA-RUBBER PLATES OR PADS FOR ATTACHMENT TO THE SOLES OR HEELS OF BOOTS AND SHOES. Class 39.

276,590. COLOR-RAY. Registered Oct. 21, 1930. Curtis Lighting, Inc., Chicago, Ill., a corporation of Illinois. Renewed Oct. 21, 1950. LIGHT-DIFFUSING SCREENS FOR REFLECTORS, LIGHTING FIXTURES, ETC. Class 34.

276,640. "AM CRE CO" AND DESIGN. Registered Oct. 21, 1930. American Creosoting Company. Renewed Oct. 21, 1950, to American Creosoting Company, Louisville, Ky., a corporation of Delaware. RAILROAD CROSSTIES, POLES, PILES, BRIDGE TIMBER AND TIES, SWITCH TIES, AND LUMBER TREATED WITH WOOD PRESERVATIVE. Class 12.

276,641. REPRESENTATION OF BORDER DESIGN. Registered Oct. 21, 1930. American Creosoting Company. Renewed Oct. 21, 1950, to American Creosoting Company, Louisville, Ky., a corporation of Delaware. RAILROAD CROSSTIES, POLES, PILES, BRIDGE TIMBER AND TIES, SWITCH TIES, AND LUMBER TREATED WITH WOOD PRESERVATIVE. Class 12.

276,989. "IVCO" ETC. AND DRAWING. Registered Nov. 4, 1930. Impervious Varnish Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Nov. 4, 1950. READY-MIXED PAINTS, PAINT ENAMELS, LACQUERS, PASTE PAINTS, PAINT OILS, JAPANS, VARNISHES, AND PAINT DRIERS. Class 16.

277,104. "BAMBY" AND DESIGN. Registered Nov. 4, 1930. The Campe Corporation, New York, N. Y., a corporation of Delaware. Renewed Nov. 4, 1950. WOMEN'S AND CHILDREN'S RAYON AND KNIT UNDERWEAR. Class 39.

277,346. "HOLO-KROME" AND DRAWING LINED FOR GREEN AND ORANGE. Registered Nov. 11, 1930. The Holo-Krome Screw Corporation, Hartford, Conn. Renewed Nov. 11, 1950, to The Holo-Krome Screw Corporation, West Hartford, Conn., a corporation of Connecticut. SCREWS. Class 13.

277,541. SLEEPCRAFT. Registered Nov. 18, 1930. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 18, 1950. SHEETS, PILLOWCASES, BLANKETS, AND BEDSPREADS OF COTTON AND WOOL AND MIXTURES THEREOF. Class 42.

277,875. "CRAYFISH" AND DRAWING LINED FOR RED. Registered Dec. 2, 1930. Consolidated Tea Company, Inc. Renewed Dec. 2, 1950, to Adolph Goldmark & Sons, Corp., New York, N. Y., a corporation of New York. CANDY. Class 46.

278,046. ROYAL AROMA CAKE. Registered Dec. 2, 1930. Apex Products Corporation. Renewed Dec. 2, 1950, to Clean Home Products, Inc., Chicago, Ill., a corporation of Delaware. DEODORIZER. Class 6.

278,509. SUN. Registered Dec. 23, 1930. Leon Weinstein, doing business as Security Shoe Supply Co. Renewed Dec. 23, 1950, to Security Shoe Supply Company, St. Louis, Mo., a firm. TOE PLATES, HEEL PLATES, AND BRACES FOR SHOES. Class 13.

278,623. "C. M. B" AND DESIGN. Registered Dec. 23, 1930. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Renewed Dec. 23, 1950. CLOTHING — NAMELY, MEN'S AND WOMEN'S SUITS, NECKTIES, AND MUFFLERS, ETC. Class 39.

278,724. "NEPCO" AND DESIGN. Registered Dec. 30, 1930. Nekoosa-Edwards Paper Company, Port Edwards, Wis., a corporation of Wisconsin. Renewed Dec. 30, 1950. WRAPPING AND PRINTING PAPER AND CONVERTING PAPERS USED IN THE MAKING OF PAPER BAGS, BOXES, NAPKINS, NOVELTIES, ETC. Class 37.

278,821. "SANTA CLARA" ETC. AND DRAWING. Registered Dec. 30, 1930. Southern Fertilizer & Chemical Company, Savannah, Ga., a corporation of Georgia. Renewed Dec. 30, 1950. FERTILIZERS. Class 10.

278,826. TABLE BELLE. Registered Dec. 30, 1930. The J. M. Smucker Co., Orrville, Ohio, a corporation of Ohio. Renewed Dec. 30, 1950. FRUIT PRESERVES. Class 46.

278,983. "M" & DESIGN. Registered Jan. 6, 1931. Southern Pacific Milling Company, San Francisco, Calif. Renewed Jan. 6, 1951, to Southern Pacific Milling Company, Santa Barbara, Calif., a corporation of California. DAIRY AND POULTRY FEED AND GRAIN. Class 46.

279,085. SQUADRON STRIPES. Registered Jan. 6, 1931. Cheney Brothers, South Manchester, Conn. Renewed Jan. 6, 1951, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut. CRAVATS. Class 39.

279,265. REPRESENTATION OF RECTANGULAR PANEL LINED FOR RED AND BLUE. Registered Jan. 13, 1931. Revere Copper and Brass Incorporated, New York, N. Y., a corporation of Maryland. Renewed Jan. 13, 1951. NONFERROUS METALS AND ALLOYS THEREOF IN THE FORM OF SHEETS, STRIPS, RODS, BARS, ROLLS, WIRE, SHAPES, ETC. Class 14.

279,289. NOX SPOTS. Registered Jan. 13, 1931. American Disinfecting Company. Renewed Jan. 13, 1951, to Adco, Inc., Sedalia, Mo., a corporation of Missouri. LIQUID SOAP SOLUBLE IN GASOLINE. Class 52.

279,605. BARBARA LEE. Registered Jan. 20, 1931. Associated Merchandising Corporation. Renewed Jan. 20, 1951, to The Associated Merchandising Corporation, New York, N. Y., a corporation of New York. WOMEN'S AND MISSES' HAND BAGS AND POCKETBOOKS OF LEATHER, BEADS, SILK, AND OTHER FABRICS. Class 3.

279,606. BARBARA LEE. Registered Jan. 20, 1931. Associated Merchandising Corporation. Renewed Jan. 20, 1951, to The Associated Merchandising Corporation, New York, N. Y., a corporation of New York. WOMEN'S AND MISSES' COATS OF SEASONAL MATERIALS, SUCH AS SILK, WOOLEN, AND FUR; ETC. Class 39.

279,643. OBERLAND. Registered Jan. 20, 1931. Gerber & Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 20, 1951. CHEESE. Class 46.

279,688. FÉLICE. Registered Jan. 20, 1931. Associated Merchandising Corporation. Renewed Jan. 20, 1951, to The Associated Merchandising Corporation, New York, N. Y., a corporation of New York. WOMEN'S AND GIRLS' DRESSES, COATS, LEATHER SHOES, WOMEN'S AND MISSES' HATS, ETC. Class 39.

279,698. JORDANE. Registered Jan. 20, 1931. Perkins Hosiery Mills. Renewed Jan. 20, 1951, to Jordan Mills, Inc., Columbus, Ga., a corporation of Georgia. KNITTED AND WOVEN FABRICS MADE OF WOOL, SILK, COTTON, SYNTHETIC THREADS OR YARNS, OR MIXTURE THEREOF. Class 42.

279,699. CABAÑA. Registered Jan. 20, 1931. Cheney Brothers, South Manchester, Conn. Renewed Jan. 20, 1951, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Class 42.

279,711. GLEN RAVEN VIVATONE. Registered Jan. 20, 1931. Glen Raven Cotton Mills. Renewed Jan. 20, 1951, to Glen Raven Cotton Mills, Inc., Glen Raven, N. C., a corporation of North Carolina. COTTON PIECE GOODS FOR THE MANUFACTURE OF AWNINGS, DRAPERIES, INDOOR AND OUTDOOR FURNITURE. Class 42.

279,722. FROSTETTES. Registered Jan. 20, 1931. The Hills Brothers Company, New York, N. Y., a corporation of New York. Renewed Jan. 20, 1951. GRANULATED COCOANUT. Class 46.

279,808. IMMERSOL. Registered Jan. 27, 1931. Nyanza Color & Chemical Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 27, 1951. CHEMICAL COMPOUNDS USED IN THE PREPARATORY TREATMENT OF TEXTILES, ETC. Class 6.

TRADE-MARK REGISTRATIONS CANCELED

54,211. 500. Registered June 19, 1906. Rosemary Manufacturing Company, Roanoke Rapids, N. C. DRY GOODS. Class 42. Canceled Oct. 5, 1950.

190,487. RAINGARD. Registered Oct. 14, 1924. Driesen, Meyer & Oronsky, New York, N. Y. OUTER SUITS AND OVERCOATS FOR MALES. Class 39. Canceled Oct. 13, 1950.

265,034. BREEZER. Registered Dec. 10, 1929. Weldon M. Ward, New York, N. Y. VENTILATED BEACH HATS. Class 39. Canceled Oct. 11, 1950.

347,176. CRACKER JACK. Registered June 15, 1937. Indianapolis Glove Company, Indianapolis, Ind. WORK GLOVES AND WORK MITTENS OF FABRIC, LEATHER, ETC. Class 39. Canceled Oct. 11, 1950.

422,477. STONEHURST. Registered July 23, 1946. D. B. Rosenblatt, Incorporated, Minneapolis, Minn. MEN'S OVERCOATS. Class 39. Canceled Oct. 11, 1950.

427,656. "ALKATROL ELECTRONIC" AND DESIGN. Registered Feb. 18, 1947. Noble Chemical Corporation, Chicago, Ill. CHEMICAL CLEANING COMPOUNDS FOR WASHING DISHES, BOTTLES AND OTHER CONTAINERS, ETC. Class 4. Canceled Sept. 29, 1950.

439,918. BEDMASTER. Registered July 27, 1948. Slumber Bedding & Mattress Co., Inc., New York, N. Y. BOX SPRINGS, MATTRESSES, ETC. Class 32. Canceled Oct. 11, 1950.

500,909. CRACKER JACK. Registered July 6, 1948. Indianapolis Glove Company, Indianapolis, Ind. WORK GLOVES AND WORK MITTENS OF FABRIC, ETC. Class 39. Canceled Oct. 11, 1950.

505,837. TERATONE. Registered Jan. 18, 1949. Carsolite Corporation, Maywood, Ill. CLEANSER AND RENOVATOR FOR TERRAZZO FLOORS. Class 4. Canceled Sept. 29, 1950.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

78,690. "RAINBOW" AND DESIGN. Registered July 5, 1910. Commercial Fertilizer Co., Montgomery, Ala. FERTILIZERS. Class 10. Corrected as follows: The disclaimer is canceled as inadvertently accepted.

526,603. KOMYRJ. Registered June 20, 1950. Atlas Powder Company, Wilmington, Del. EMULSIFYING, WETTING, AND DISPERSING AGENTS, BEING ESTERS OF FATTY ACIDS. Class 6. Corrected as follows: In the statement, line 7, description of merchandise, for the word "DISPENSING" read *DISPERSING*.

Erratum

In the notice of publication under section 12(*a*) of the Trade-Mark Act of 1946 of application Serial No. 561,082, C. I. T. Financial Corporation, New York, New York, appearing in the OFFICIAL GAZETTE of October 10, 1950, page 318, last line, for "Oct. 10, 1950" read *Aug. 21, 1948*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Reg. No. 271,634. Registered June 17, 1930. THE GILBERT SPRUANCE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

GILCO

FOR WAX FOR POLISHING FLOORS, WOODWORK, FURNITURE, LINOLEUM, AND AUTOMOBILES.
Claims use since on or about Nov. 27, 1929.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 271,938. Registered June 17, 1930. WESTERN CLOCK COMPANY, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

Ben Bolt

FOR CLOCKS AND WATCHES.
Claims use since June 19, 1929.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 34,974. Registered July 31, 1900. PEERLESS RUBBER MANUFACTURING COMPANY, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

RAINBOW

FOR RUBBER BELTING, GASKETS, HOSE, PACKING, AND UTENSILS MADE OF RUBBER.
Claims use since about Oct. 1, 1899.

Reg. No. 274,880. Registered Sept. 9, 1930. THE FEDERAL RUBBER COMPANY, Chicago, Ill., Cudahy, Wis., and Chicopee Falls, Mass. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

FEDERAL

FOR VEHICLE TIRES, INNER TUBES, TIRE FLAPS, BELTS AND BELTING, HOSE AND TUBING, TIRE AND TUBE PATCHES, PORTABLE TIRE AND TUBE REPAIR KITS, VALVE BASES, INSIDE TIRE SLEEVES, ANNULAR AND SECTIONAL AIR BAGS FOR TIRE REPAIRING, UNIVERSAL TRANSMISSION DISCS, AND TIRE-REPAIR PLUGS, ALL MADE WHOLLY OR PARTLY OF RUBBER, AND TIRE COVERS MADE OF WATERPROOFED FABRIC.
Claims use since on or about Oct. 10, 1929.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 433,737. Registered Oct. 28, 1947. MELVIN M. SCHWARTZ, Madison, Wis. Republished by registrant.

BIRTH-O-GRAM

The word "Birth" is disclaimed apart from the mark as shown.
FOR GREETING AND ANNOUNCEMENT CARDS AND PUBLICATIONS.
Claims use since July 22, 1946.

CLASS 39

CLOTHING

Reg. No. 276,244. Registered Oct. 14, 1930. JULIUS KAYSER & CO., New York, N. Y., a corporation of New York. Republished by registrant.

Sansheen

FOR HOSIERY.
Claims use since Apr. 10, 1930.

Reg. No. 276,389. Registered Oct. 21, 1930. MELVILLE SHOE CORPORATION, New York, N. Y., a corporation of New York. Republished by registrant.

Thom McAn

GRACE-FOOTE

FOR SHOES OF LEATHER, RUBBER, AND FABRIC AND COMBINATIONS OF THOSE MATERIALS.
Claims use since Jan. 1, 1930.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 394,352. Registered Mar. 31, 1942. ARTLOOM CORPORATION, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

CURLGLO

FOR CARPETS AND RUGS.
Claims use since July 13, 1936.

Reg. No. 394,353. Registered Mar. 31, 1942. ARTLOOM CORPORATION, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

SUPER CURLGLO

FOR CARPETS AND RUGS.
Claims use since July 13, 1936.

Reg. No. 398,041. Registered Oct. 6, 1942. ARTLOOM CORPORATION, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

The words "Woven by," and the pictorial representation of a loop of warp (or woof) thread, and of the tuft of which the pile of a rug is formed, are disclaimed apart from the mark as shown.
FOR CARPETS AND RUGS.
Claims use since Nov. 3, 1941.

Reg. No. 398,979. Registered Dec. 8, 1942. ARTLOOM CORPORATION, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

All the matter except the expression "Artloom" is disclaimed apart from the mark as shown.
FOR CARPETS AND RUGS.
Claims use since Nov. 3, 1941.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 274,902. Registered Sept. 9, 1930. THE NORTH AMERICAN TRADING & IMPORT COMPANY, Philadelphia, Pa., a corporation of Maryland. Republished by registrant.

NATICO

FOR MOLASSES.
Claims use since Mar. 15, 1930.

Reg. No. 274,904. Registered Sept. 9, 1930. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Republished by registrant.

WONDER-CUT

The word "Cut" is disclaimed apart from the mark as shown.
FOR BREAD.
Claims use since on or about Feb. 3, 1930.

Reg. No. 277,784. Registered Nov. 25, 1930. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y., a corporation of Delaware. Republished by registrant.

Hostess TWINKIES

FOR CAKE.
Claims use since on or about June 25, 1930.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 275,220. Registered Sept. 16, 1930. HARRY E. KIMBLE, Albuquerque, N. Mex. Republished by registrant.

FOR TOOTH POWDER.
Claims use since April 1928.

Reg. No. 284,080. Registered June 16, 1931. COMFORT MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

High Speed

FOR SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDERS, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL; SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES; LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, WASHING TABLETS, AND SHAMPOO SOAPS.
Claims use since Feb. 8, 1931.

Reg. No. 284,081. Registered June 16, 1931. COMFORT MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Pullproof

FOR SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDERS, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL; SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES; LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, WASHING TABLETS, AND SHAMPOO SOAPS.

Claims use since Jan. 2, 1931.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 284,080. Registered June 16, 1931. COMFORT MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

High Speed

FOR SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDERS, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL; SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES; LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, WASHING TABLETS, AND SHAMPOO SOAPS.

Claims use since Feb. 8, 1931.

Reg. No. 284,081. Registered June 16, 1931. COMFORT MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Pullproof

FOR SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAMS, SHAVING STICKS, SHAVING POWDERS, OUTFIT PACKAGES CONTAINING SOAP AND TOWEL; SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES; LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, WASHING TABLETS, AND SHAMPOO SOAPS.

Claims use since Jan. 2, 1931.

REISSUES

NOVEMBER 14, 1950

23,293

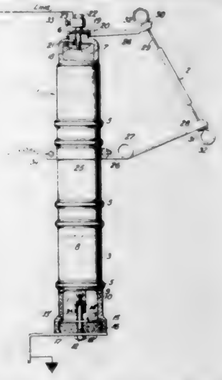
COMBINED LIGHTNING ARRESTER AND FUSE CONSTRUCTION

Ralph H. Earle, Wauwatosa, Wis., assignor to McGraw Electric Company, a corporation of Delaware

Original No. 2,490,952, dated December 13, 1949, Serial No. 669,256, May 13, 1946. Application for reissue March 17, 1950, Serial No. 150,170

7 Claims. (Cl. 200—115)

6. In a combined fuse construction and lightning arrester assembly, the combination with an elongated insulating tube having a line terminal at one end including a fuse link engaging contact, said line terminal exposed interiorly and exteriorly of said tube and a second terminal mounted on said tube intermediate the ends thereof and including a fuse link engaging contact, of a spark gap disposed in said tube, said gap having one electrode electrically connected to said line terminal and normally at substantially the same potential as said terminals and having a second electrode at the other end of said tube including a conductive element extending to the exterior of said tube for cooperation with a grounded connection the electrodes of said gap being positioned

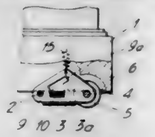


between said second terminal and said conductive element.

PATENTS

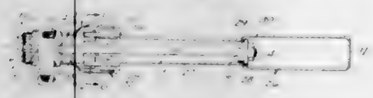
GRANTED NOVEMBER 14, 1950

2,529,475
SUPPORT FOR OFFICE MACHINES
Rolf Erik Annerén, Atvidaberg, Sweden, assignor to Aktiebolaget Facit, Atvidaberg, Sweden, a corporation of Sweden
Application June 19, 1946, Serial No. 677,773
In Sweden June 25, 1945
1 Claim. (Cl. 248—23)



A device for supporting the rearward portion of a calculating machine or the like the front of which is supported on fixed feet, said device comprising in combination, a shaft extending transversely of the machine adjacent the rear edge thereof, a pair of arms pivotally mounted on said shaft said arms being located one adjacent each side of the machine said arms extending rearwardly from said shaft, a second shaft extending substantially across the machine and mounted in the rearward ends of said arms, resilient means for holding said second shaft in its upper position, rollers mounted on said second shaft said rollers serving as supports for the rear of said machine, webs integral with the machine base normally resting on said second shaft so that the machine is supported at its rear in the lower of two positions, apertures in said arms, a latching bar extending through said apertures, resilient means normally holding said latching bar in a position to hold said arms in their lower position to thereby elevate the rear of the machine, and handle means for manual operation of said latching bar to thereby release said arms and said second shaft for return to the first mentioned position in which said webs rest against said second shaft.

2,529,476
RATCHET WRENCH
Victor N. Albertson, Minneapolis, Minn.
Application March 24, 1949, Serial No. 83,117
6 Claims. (Cl. 74—157)



1. In a device of the class described, a housing including a pair of rigidly connected spaced parallel walls having axially aligned apertures therein, a relatively fixed head plate intermediate said walls in spaced relation to each thereof and having an opening therein aligned with the openings in the housing, a pair of oscillatory head plates in said housing having opposite faces each engaging an opposite face of said fixed head plate and a wall of said housing, said oscillatory head plates having openings therein which are axially aligned with the openings in said housing but are of greater diameter than the openings in said housing and said fixed head plate, ratchet gears rotatable within the openings of said oscillatory head plates, opposite side faces of said ratchet gears engaging opposite sides of said fixed head plate and adjacent walls of the housing, said ratchet gears having teeth pitched in the same direction, a central hub on each of said ratchet gears extending axially outwardly through and being journalled in the aperture of the adjacent housing wall, whereby to maintain axial alignment of the ratchet gears and oscillatory head plates with the apertures in said housing walls, a pawl on each of said oscillatory head plates each engageable with a cooperating one of said ratchet gears, said ratchet gears having central openings extending axially therethrough, a tool holding stem extending through the openings in said ratchet gears and fixed head plate and maintaining the opening in said fixed head plate in axial alignment with the openings in said ratchet gears, said stem being freely rotatable in said fixed head plate and being locked against rotation with respect to said ratchet gears, a shank on said fixed head plate projecting laterally outwardly from said housing, handle means rotatably mounted on said shank, and power transmitting connections between said handle and said oscillatory head plates, whereby oscillatory movements of said handle will impart simultaneous oscillatory movements in opposite directions to said oscillatory head plates and rotary movements to said stem.

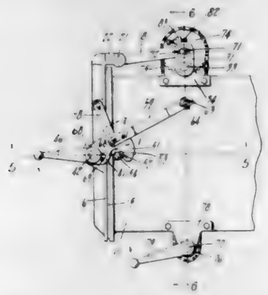
2,529,477
PROCESS FOR THE MANUFACTURE OF PEANUT PROTEIN
Jett C. Arthur, Jr., New Orleans, La., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application May 3, 1949, Serial No. 91,209
5 Claims. (Cl. 260—123.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. A process of preparing a dense, heavy, protein curd having a relatively quick settling rate, comprising: preparing a water-peanut meal suspension in the weight ratio of 10 parts of water to 1 part of meal; adjusting the pH of the suspension to about 7.5 with sodium hydroxide to peptize the protein; removing the insoluble portion of the meal and washing it with water which increases the ratio to 15 parts of water to 1 part of meal; introducing gaseous sulfur dioxide until the pH of the solution is about 4.5, the temperature during the introduction being maintained at 73° to 90° F., the rate of introduction of the SO_2 gas being about 0.23 pound per minute per 100 pounds of peanut meal, and isolating the protein curd from the liquor by physical separation.

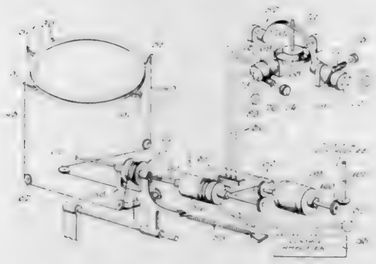
2,529,478
CASING DOOR OPERATOR
Neils P. Bach, Geneva, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application January 7, 1946, Serial No. 639,573
8 Claims. (Cl. 268—1)

8. In combination with a casing having an opening and a door for sealing said opening,

a yieldable hinge connection between said door and said casing for supporting the door and for moving it laterally relative to said casing, said yieldable hinge connection comprising a support arm pivotally connected at one side to said door, the other side of said support arm carrying a swing shaft and having pivot bearings pivotally disposed between the shaft and said casing for lateral swinging movement of the door relative to said casing opening, a locking device on said casing adjacent said door, latch means mounted on said door and engageable with said locking device in either of two positions, one for locking the door in closed position and the other for shifting said door straight out away from said casing to release it from the casing, and guide links connecting said door and said casing with said latch means for guiding said door into and out of locked position during yielding of said hinge connection.



2,529,479
AUTOMATIC STABILIZER FOR HELICOPTERS
Mortimer F. Bates, Brooklyn, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application May 15, 1945, Serial No. 593,948
In Great Britain November 10, 1944
14 Claims. (Cl. 244—17.13)

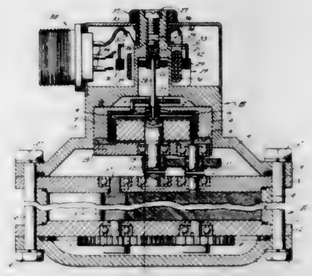


5. In an aircraft of the type having a rotary blade sustaining means and a pendulously suspended fuselage, a non-rotating member mounted to be tiltable in any direction relative to the fuselage, means maintaining said member in constant orientation relative to the plane of the path of the tips of the rotary blades, and pitch control means including mechanisms interconnecting said rotary blades with said non-rotating member whereby pendulous fuselage movements are ineffective insofar as pitch control is concerned.

2,529,480
TIMER
James H. Booth, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application January 31, 1944, Serial No. 520,563. Divided and this application June 8, 1946, Serial No. 675,454
15 Claims. (Cl. 200—30)

5. A timer comprising a pair of contiguous interlocking cylindrical members forming a housing, a timer shaft extending into said housing through one end thereof, a switch mounting plate seated against the inner end of one of said members, said plate having projecting arcuate lips, the other of said members having an eccentrically formed inwardly facing annular shoulder against which said lips are seated, and means for preventing relative rotation of said plate whereby rotational movement of one cylindrical member with respect to the other causes movement of said plate member toward and away from said shaft.

2,529,481
FLUID RATE OF FLOW INDICATOR
James C. Brewer, Dayton, Ohio
Application October 7, 1947, Serial No. 778,448
8 Claims. (Cl. 73—231)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A fluid rate of flow indicator comprising, a motor operated by the flow of fluid therethrough and driven at a rate of speed proportional to the volume of fluid passing therethrough in a given time period, a rotatably mounted magnet, means providing a driving connection from said motor to said magnet, a metallic rotor mounted to turn on its central axis in adjacent relation to said magnet and coaxial with respect thereto, spring means resisting rotary displacement of said rotor by the rotating magnetic field from said magnet, a relatively stationary perforate shield made of a non-magnetic material and interposed between said magnet and said rotor to prevent viscosity drag on said rotor by said rotatably mounted magnet due to fluid therebetween, means housing all of the foregoing indicator elements and being adapted to receive a portion of said fluid therein, and means to indicate the degree of displacement of said rotor by said rotating magnetic field.

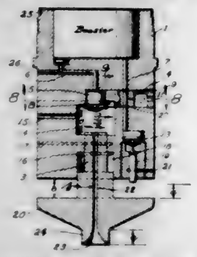
2,529,482
3-METHYL-HEXEN(2)-YNE(5) DERIVATIVES
Albert Businger, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application June 18, 1947, Serial No. 755,473. In Switzerland April 12, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 12, 1966
4 Claims. (Cl. 260—488)

1. Compounds of the formula

$$CH\equiv C-CH_2-C(CH_3)=CH-CH_2X$$

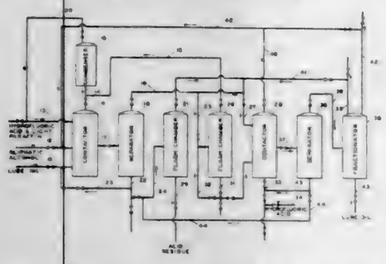
wherein X is selected from the group consisting of hydroxy, halogeno, acetoxy and methoxy radicals.

2,529,483
AIRCRAFT BOMB FUSE
James C. Byrnes, Jr., United States Navy
Application September 30, 1940, Serial No. 358,970
8 Claims. (Cl. 102—74)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



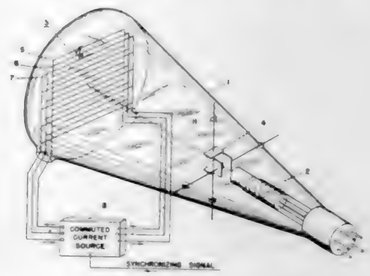
1. In an aircraft bomb fuse, the combination of a fuse body having a booster charge, a pair of fuse transmission means connected to said booster charge, a primer for setting off one of said fuse transmission means on impact with a solid, a primer for also setting off the other said fuse transmission means on impact with a liquid means for interrupting the first mentioned fuse transmission means and means operative upon the ignition of the second mentioned fuse transmission means to render operative said interrupting means.

2,529,484
TREATMENT FOR THE IMPROVEMENT OF LUBRICATING OILS
Paul H. Carnell, Alma, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 15, 1947, Serial No. 791,801
7 Claims. (Cl. 196—13)



1. The process of manufacturing a lubricating oil of improved viscosity index, color, and stability which comprises contacting a lubricating oil by thorough mingling with a mixture of at least one saturated aliphatic alcohol, hydrofluoric acid, and water not in excess of 5 to 10 weight per cent of the hydrofluoric acid present, in the proportion of alcohol, oil, and hydrofluoric acid of about 1:3:3 for about 5 to about 200 minutes at a sufficient pressure to maintain the hydrofluoric acid substantially liquid and a temperature of about —20 to about 40° F., and further treating said lubricating oil with a mixture of at least one saturated aliphatic alcohol, hydrofluoric acid, and water not in excess of 5 to 10 weight per cent of the hydrofluoric acid present, in the proportion of alcohol, oil, and hydrofluoric acid of about 1:1:1 to about 1:1:3 for about 5 to about 200 minutes at a sufficient pressure to maintain the hydrofluoric acid substantially liquid and a temperature of about 100 to about 500° F., and recovering said improved lubricating oil.

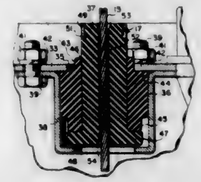
2,529,485
COLOR TELEVISION
Thornton W. Chew, United States Navy
Application October 9, 1945, Serial No. 621,397
33 Claims. (Cl. 178—5.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a television system including a transmitter and a receiver, a cathode ray tube in said receiver having an image modulated electron beam, means deflecting said beam in accordance with signals from said transmitter, a screen comprising electrically parallel screen wires having a dimension perpendicular to said electron beam and to their length small compared to the size of the image elements on said screen and arranged in a multiplicity of interleaved groups, the elements of each group having a common connection at each side of said screen and adapted to produce a primary color when impinged upon by the electron beam, a magnetic flux producer including said screen wires and causing flux around said wires and causing said beam to selectively impinge upon one of said groups in accordance with the scanning of objectives by said transmitter.

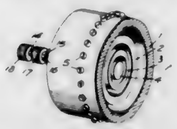
2,529,486
RESILIENT FAIR-LEAD
William S. Clarkson, Washington, D. C., and Jack H. Rupe, Mount Rainier, Md.
Application March 9, 1943, Serial No. 478,510
9 Claims. (Cl. 254—190)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a fairlead for mounting on a plate having an aperture therein, a central core having a bore therethrough, a sleeve having a central bore therethrough within which the core is tightly fitted, said sleeve having a reduced upper section fitting loosely in the aperture in the plate and an



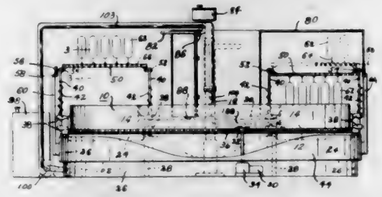
enlarged central section, a cup having a central aperture and adapted to tightly grip said enlarged central section of the sleeve, and means for attaching the cup to the plate with said central aperture thereof in alinement with said core.

2,529,487
ROTOR ASSEMBLY
Vernon E. Cooley, United States Army, Arlington, Va.
Application March 13, 1944, Serial No. 526,310
5 Claims. (Cl. 35—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



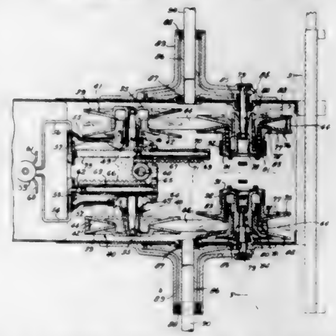
5. In a cryptographic device, a hollow cylindrical casing, a plurality of hollow cylindrical rotors telescopically arranged in the casing, and means for making electrical connections between a plurality of points on said rotors.

2,529,488
DIPPING MACHINE
Franklin E. Coppock, Frenchtown, N. J., assignor to Frederick A. Krause, West McHenry, Ill.
Application February 27, 1948, Serial No. 11,770
14 Claims. (Cl. 91—46)



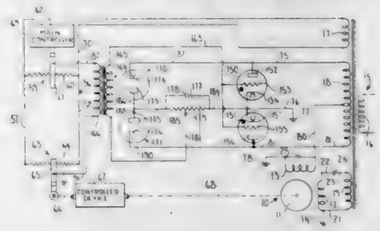
1. A dipping machine comprising a horizontally disposed circular tank adapted to contain a quantity of coating medium into which articles to be coated are dipped, means for revolving said tank about its central vertical axis, article supporting means carried by said tank, and means for lowering and raising said article supporting means in response to movement of said tank, said article supporting means comprising a support extending over a portion of said tank and means for rotating said support about a horizontal axis.

2,529,489
TORQUE DIVIDING DRIVING AND CONTROL MECHANISM FOR VEHICLES
George W. Curtis, Wauwatosa, Wis.
Application August 13, 1945, Serial No. 610,538
20 Claims. (Cl. 74—722)



10. In a vehicle having a pair of spaced propelling members one on each side of the vehicle, an engine, a driving connection between the engine and both of said propelling members, a pair of belt connected adjustable variable speed sheaves in the drive for each propelling member, hydraulically actuated means for causing reverse adjustment of the sheaves of one pair with respect to the corresponding sheaves of the other pair, hydraulic pumping mechanism in the circuit to said hydraulically actuated means, a manually movable member for operating said hydraulic pumping mechanism to vary the speed ratio between the two propelling members and cause steering of the vehicle, a power driven fluid pump, hydraulic means operable by said power driven pump for causing a like adjustment of the sheaves of both pairs simultaneously to increase or decrease the speed of the vehicle, and a valve for controlling the flow of hydraulic fluid from said power driven pump.

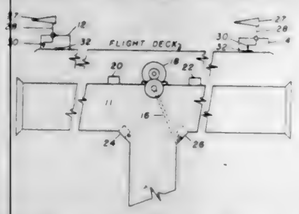
2,529,490
MOTOR CONTROL SYSTEM
William J. Field, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application December 30, 1943, Serial No. 516,237. Divided and this application November 12, 1948, Serial No. 59,608
18 Claims. (Cl. 318—212)



1. In a motor control system, an alternating current motor having a field winding, means for selectively applying to said winding a cyclically varying voltage of variable magnitude having a direct voltage component, and means for continuously applying to said winding a unidirectional voltage opposing in polarity the direct voltage

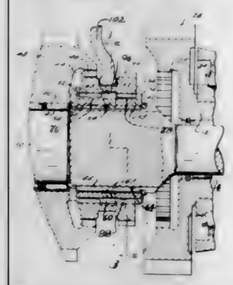
component of the cyclically varying voltage so as to cause the wave form of said cyclically varying voltage to approach the wave form of an alternating voltage, said unidirectional voltage being effective when said cyclically varying voltage is reduced beyond a predetermined value to cause a braking effect.

2,529,491
SMOKE CONTROL
John Gadzuk, Drexel Hill, Pa.
Application March 4, 1947, Serial No. 732,360
2 Claims. (Cl. 98—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for controlling discharge of gas from a smoke pipe, said apparatus comprising a first outlet in the smoke pipe and second outlet in the smoke pipe opposed to the first outlet; a damper movable into first position to open the first outlet and close the second outlet and movable into second position to open the second outlet and close the first outlet; an electric motor for rotating in one direction to move said damper into first position and for rotating in the opposite direction to move said damper into second position; an electric circuit including said motor, including limit switches for preventing movement of said damper beyond first position and second position, and including selector means for controlling the direction of rotation of said motor to move selectively said damper into first position or second position, and means responsive to the direction of the wind for operating said selector means.

2,529,492
POSITIVE CLUTCH MECHANISM
Alva B. Gilbert, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 5, 1947, Serial No. 766,267
13 Claims. (Cl. 192—67)



1. In a transmission clutch mechanism the combination of an inner member, an outer member, a first intermediate section, a second intermediate section and a third intermediate section, said members and sections being rotatable as a unit about a common axis and said second section being intermediate the said first and third sections, said second section being non-rotatably associated with one of said members and said first and third sections having a limited rotation relative to the same member, the other of said members and said intermediate sections being relatively shiftable axially for establishing a driving relationship between said members through one of said first and third sections independently of said second section.

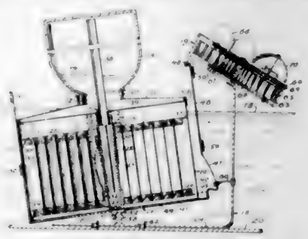
2,529,493
CHLOROALKYL ALKYL SULFITES AS NEW CHEMICALS AND INSECTICIDES
Walter D. Harris, Naugatuck, Herman D. Tate, Woodbridge, and John W. Zukel, Hamden, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 29, 1948, Serial No. 57,412
18 Claims. (Cl. 167—22)

8. 3-chloropropyl lauryl sulfite.

2,529,494
CHLOROALKYL ARYLOXYALKYL SULFITES AS NEW CHEMICALS AND INSECTICIDES
Walter D. Harris, Naugatuck, Herman D. Tate, Woodbridge, and John W. Zukel, Hamden, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 29, 1948, Serial No. 57,413
10 Claims. (Cl. 167—30)

7. A composition comprising a di-ester of sulfurous acid wherein one of the esterifying groups is a radical of the formula R—O—X—, wherein R is selected from the class consisting of monovalent aryl hydrocarbon radicals and such radicals substituted by at least one member of the group consisting of alkyl, alkoxy, cycloalkyl, halo and nitro, and X is an alkylene radical having 2 to 4 carbon atoms, and wherein the other esterifying group is a monochloroalkyl radical containing 2 to 4 carbon atoms in which at least one hydrogen atom is attached to the alpha carbon atom and in which the chlorine atom is attached to a carbon atom other than the alpha carbon atom, and a surface-active dispersing agent.

2,529,495
APPARATUS FOR TREATING FILM OR THE LIKE
William R. Harlow, United States Navy
Application October 31, 1947, Serial No. 783,425
3 Claims. (Cl. 95—99)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

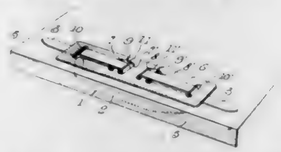


1. Apparatus for treating film or the like comprising a support, a pivot member on said support, a film treating tank, means mounting said tank for movement on said pivot member, means mounted on said support and connected to said tank mounting means for agitating said tank mounting means on said pivot, a solution container having means for liquid-tight connection to said tank when either one is inverted in relation to the other, said tank having cooperating means for providing said liquid-tight connection with said solution container, said solution container when disposed in inverted connection with said tank providing solution by gravity for treating film or the like in the tank and adapted to be agitated with said tank by said agitating means, said tank mounting means comprising a table member having a socket cooperating with said pivot member, said table supporting said tank, said table having an upstanding arm portion, a standard on said support carrying said agitating means at its upper end, an arm on said standard, said arm portion of said table having a slot therein for slidable pivotal engagement with said standard arm, said agitating means including a rotary drive arm rotating in a plane inclined in respect to the plane of the support, the end of said rotary drive arm being pivotally connected to the upper end of said upstanding arm portion of the said table for imparting agitation thereto.

2,529,496
FUEL HAVING IMPROVED KNOCK QUALITIES
Everett C. Hughes, Cleveland Heights, Ohio, and Milton H. Campbell, Wilmington, Del., assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application February 21, 1947, Serial No. 730,194
5 Claims. (Cl. 44—69)

1. Gasoline containing tetraethyl lead and an organic silicon compound soluble in the fuel in an amount up to 0.5 cc. per gallon of fuel.

2,529,497
PAPER FILE FASTENER
Frank L. Innacelli, Red Bank, N. J.
Application March 28, 1946, Serial No. 657,735
2 Claims. (Cl. 24—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A paper file fastener assembly comprising, in combination, a base member provided with spaced terminal tongues, and a compressor plate cooperating with the base member and provided with apertures adjacent to its ends arranged to receive the tongues, and having a plurality of pairs of longitudinally aligned openings located on either side of the transverse center line of the compressor plate, and keeper bars formed integrally with the compressor plate and raised above the surface thereof, the keeper bars bridging the plate between the pairs of aligned openings, the tongues projecting through the said openings beneath the keeper bars and bent back upon themselves over the keeper bars and projected through the end apertures in the compressor plate.

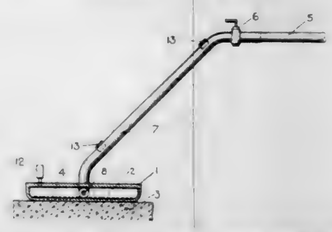
2,529,498
PROCESS FOR THE MANUFACTURE OF PENTAENES
Otto Isler, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application April 5, 1947, Serial No. 739,647. In Switzerland April 12, 1946
5 Claims. (Cl. 260—488)

5. A process comprising reacting, by means of a Grignard reagent, β-ionone with a Grignard of a compound selected from the group consisting of 1-hydroxy-3-methyl-hexene-(2)-yne-(5) and the lower alkyl ethers thereof, adding to the triple bond of the condensation product obtained 1 mol of hydrogen by partial hydrogenation, and subjecting the compounds thus produced to esterification and allyl rearrangement by means of an acylating agent, and thereafter splitting off acid from the resultant compound.

2,529,499
SALIVA EJECTOR
Bernard Jankelson, Seattle, Wash.
Application April 12, 1946, Serial No. 661,647
6 Claims. (Cl. 32—33)

1. An ejector of the character described comprising a rigid stem portion designed to hook over the lower tooth ridge, a tubular suction nozzle designed to lie on the floor of the mouth for the withdrawal of saliva, and a flexible tubular member connecting the nozzle and inner end of the said stem that permits the nozzle to automatically adjust itself to its intended position in the mouth.

2,529,500
APPARATUS FOR DRYING AND EXPEDITING THE SETTING OF PLASTIC CONCRETE
John Gunnar A. Johnson, New York, N. Y.
Application June 12, 1947, Serial No. 754,311
3 Claims. (Cl. 25—1)



1. Apparatus for drying and expediting the setting of wet concrete comprising a body enclosing a chamber having an air injection nozzle, an outlet member adjacent the discharge end of said nozzle, said member having a bore with a contraction therein, the body having a wall with

an exterior surface to make contact with the concrete, said wall having inlet openings therein, and screening means over said openings to prevent particles of concrete entering said chamber, so that air issuing from the nozzle removes water from the chamber and atomizes the water in its passage through the outlet member.

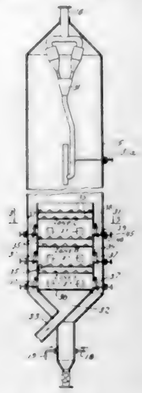
2,529,501
REEL FOR MOTION-PICTURE FILM AND THE LIKE
Wayburn E. Johnston, Minneapolis, Minn.
Application April 2, 1947, Serial No. 738,778
8 Claims. (Cl. 242—70)

1. In a device of the class described, a hub to receive winding material, spaced, radially-projecting, confining members on said hub, one of said confining members being in the nature of a cross-sectionally concave resilient head capable of being snapped back-and-forth between inwardly concave and outwardly concave positions so as to engage and disengage respectively the outer convolutions of the winding material and retaining itself in either of said positions.

2,529,502
TUBE SOCKET
William I. Kelly, Quakertown, Pa., and John R. Livingood, White Plains, N. Y., assignors to the United States of America as represented by the Secretary of War
Continuation of application Serial No. 509,674, November 10, 1943. This application May 28, 1948, Serial No. 29,865
2 Claims. (Cl. 173—328)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an electron tube socket having a base portion of insulating material, said base portion provided with a plurality of cavities including a like plurality of resilient pin clips, said pin clips each having an upper portion adapted to securely receive the pins of a tube, a constricted central portion and a lower terminal portion, said cavities in said base portion having an upper cup portion dimensioned so as to loosely contain the upper portion of said clips and a narrow portion dimensioned so as to loosely contain the constricted portion of said clips, the combination of means comprising a high center on said socket portion for fixing the extent to which a tube may be inserted into said socket and about which a tube may be rocked, limiter means for limiting the amount of rocking of a tube about said high center after its insertion into said clips, and wherein the excursion limiter consists of a tubular member fixed to the base, and extending upwardly therefrom, said tubular member having an inner diameter larger than the upper diameter of the electron tube surrounded by the tubular member, the difference in the said diameters permitting a predetermined limit of lateral excursion of an electron tube operably positioned in said socket.

2,529,503
CRACKING APPARATUS
Thomas B. Kimball, Greenwich, Conn., and Robert E. Howe, Sinclair, Wyo., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application May 14, 1947, Serial No. 748,052
4 Claims. (Cl. 23—288)

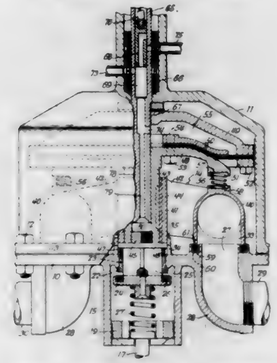


1. In a vertically disposed cylindrical fluid catalyst cracking reactor having at its upper end a port for products discharge and at its lower end a port for spent catalyst discharge, the combination with a conduit for introduction of an oil vapor-catalyst mixture into a lower zone of the reactor, said conduit terminating in an upwardly enlarging, funnel-shaped portion within the reactor, the vertical axis of which corresponds essentially to the vertical axis of the reactor, and of a maximum diameter smaller than that of the reactor, a cylindrical skirt extending upwardly from the upper end of said funnel-shaped portion so constructed and arranged as to delineate an annular space within the reactor in open communication at its lower end with the catalyst discharge port, a plurality of series of passageways extending through the skirt at different elevations connecting the respective zones delineated by the skirt, closure means actuatable from without the reactor, adapted to the opening and closing of the respective passageways whereby the depth of the catalyst bed in the zone enclosed by the skirt may be regulated, and a plurality of vertically spaced grids extending transversely across the said zone at elevations intermediate the respective series of passageways.

2,529,504
AMMUNITION FOR RECOILLESS FIREARMS
William J. Kroeger and Clarence Walton Musser, Philadelphia, Pa.
Application April 26, 1948, Serial No. 23,184
3 Claims. (Cl. 102—38)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

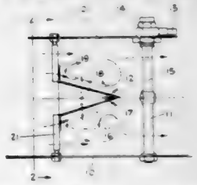
1. In ammunition for recoilless firearms having a gas expansion chamber, the combination of a projectile, a cartridge case communicating at its front with said projectile and being closed at its rear by a metal head, propellent powder within said case, a metal wall for said case forming for said powder a cylindrical enclosure and being perforated by a relatively large number of openings distributed throughout the circumference and length thereof and constituting a substantial percentage of the total case wall area, and an inner frangible lining for said case which prevents passage of said powder through said wall openings prior to firing but which disintegrates upon combustion of the powder and then allows essentially instantaneous radial escape of all the powder gas to the case exterior.

2,529,505
MULTIPORT VALVE
Andrew Kromhout, Elgin, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois
Application November 13, 1944, Serial No. 563,187
22 Claims. (Cl. 277—20)



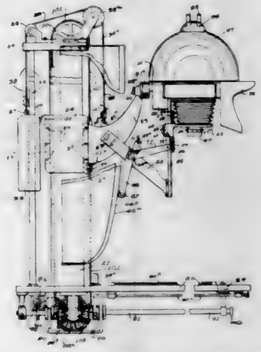
1. In a plate type valve the combination of a ported body member, a ported valve plate member adapted to effect different communication between the ports in the body member in different positions of rotation of the valve plate member, a cover on the body member enclosing said valve plate member, spring means cooperating with said valve plate member to press the same resiliently into sealed operative relationship to the body member, means for loading said spring means to seat the valve plate member under increased spring pressure comprising pressure fluid operable means and valve means for controlling the release of pressure and communication of said pressure fluid operable means with a source of pressure fluid supply, and means for turning said valve plate member from one position to another.

2,529,506
BURNER FOR LIQUID OR GASEOUS FUELS
Peter Lloyd, Camberley, and Alec David Richards, Fleet, England, assignors to Power Jets (Research and Development) Ltd., London, England, a British company
Application August 8, 1945, Serial No. 609,532
In Great Britain April 15, 1944
9 Claims. (Cl. 60—44)



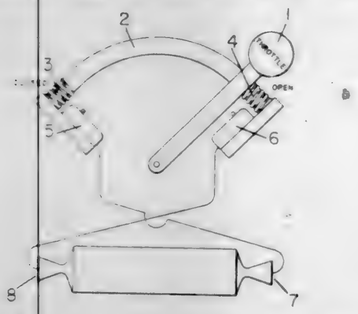
1. Combustion apparatus comprising a conduit for the flow of a combustion-supporting air stream therethrough, means for injecting a fuel jet into said conduit directed upstream relative to the general direction of said air stream, and means for leading a first portion of the said air stream through said jet to an inner region thereof located towards the base of the jet, the said jet being located so that the main body of air flows downstream around the jet to cause flow reversal thereof.

2,529,507
AUTOFOCUSING ENLARGER
Anthony Ludwig, Washington, D. C.
Application September 27, 1946, Serial No. 699,812
1 Claim. (Cl. 88—24)



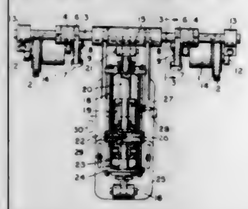
In an enlarging machine, an enlarging camera with relatively movable lens and negative holders and an automatic focusing mechanism with a plurality of controlling cams in close proximity to each other and on one side of the center of the camera, a bell crank lever connection between the lens and negative holders for moving one relative to the other, the bell crank connection comprising a rotatable shaft with means for preventing its axial movement, a pair of arms mounted on the shaft, one of the arms being fixed to the shaft and having a connecting means for lifting or lowering the lens holder relative to the negative holder, the other arm having shaft-connection means for preventing rotary movement about the shaft and for guiding the arm axially along the shaft to one of a plurality of positions for engagement with a selected cam and means for securing the second arm in adjusted position.

2,529,508
COMBINED THROTTLE LEVER AND ROCKET FIRING MEANS FOR ACCELERATION OR DECELERATION OF AIRCRAFT
Gilmour Craig MacDonald, Ames, Iowa
Application April 1, 1947, Serial No. 738,603
6 Claims. (Cl. 244—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for actuating emergency rocket thrust units of the type permitting either acceleration or deceleration of aircraft, comprising in combination, a throttle for control of the normal propulsion mechanism, emergency rocket thrust units secured to said aircraft, actuators for said rocket units, and control means between said throttle and said actuators, said means being effective to cause said actuators to function when the said throttle is shifted beyond the range of movement used in controlling the said normal propulsion mechanism.

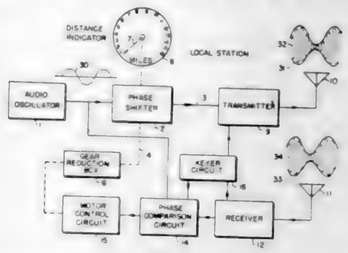
2,529,509
UNDERPLY TURNDOWN AND STITCHING DEVICE
Edwin E. Mallory, Cuyahoga Falls, and John W. White, Wadsworth, Ohio, assignors to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application April 29, 1947, Serial No. 744,736
12 Claims. (Cl. 154—10)



3. An underply turn down device adapted to turn down ply stock which is wrapped around a rotary tire building drum and which axially overhangs one end of the drum, comprising a support adapted to be moved laterally toward and away from the drum, turn down and hold down elements carried by said support in side by side relation and for similar movement and adapted when moved toward the drum to respectively engage the overhanging end of the ply stock thereon and to press the adjacent portion of the stock against the periphery of the drum, and means affording movement of said turn down element independently of said hold down element whereby said turn down element may be moved across the end of the drum to turn down the overhanging end of the stock while the adjacent portion of the stock is held against the drum by said hold down element.

4. The structure according to claim 3 further characterized in that said means comprises a resilient lost-motion connection between said hold down element and said support.

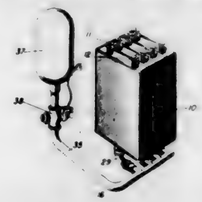
2,529,510
RADIO SYSTEM FOR MEASURING DISTANCE BY PHASE COMPARISON
Theodore M. Manley, Ann Arbor, Mich.
Application March 1, 1946, Serial No. 651,408
4 Claims. (Cl. 343—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for measuring distance between first and second points comprising, at said first point, means for generating a wave of fixed frequency and phase, a variable phase shifter coupled to said means, a radio transmitter modulated by the output of said phase shifter; means at said second point for receiving the signal from said transmitter and for retransmitting toward said first point a second signal modulated by the same wave as the received signal, a receiver at the first point for receiving said second signal and for deriving the modulation component thereof, phase comparing means for providing a voltage having a sign and value in accordance with the relative phase difference of said modulation component and said wave of fixed frequency and phase, a motor for operating said phase shifter in response to the voltage from said phase comparing means, said phase shifter being calibrated in terms of distance, electronic switch means for supplying blocking voltages for the control of the operation of said transmitter and said comparing means connected to be controlled from the receiver at said first point including means for controlling the operation of said switch means in response to the occurrence of signals in said receiver having the frequency of said fixed frequency wave.

2,529,511
DEFERRED ACTION BATTERY
Moyes J. Murphy, Arcadia, Calif.
Application August 14, 1947, Serial No. 768,678
4 Claims. (Cl. 136—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An electrolytic cell having a working chamber containing a set of battery plates, and a supplemental container portion for the electrolyte, a normally collapsed distensible bladder within said supplemental container portion, a tearable membrane separating the working chamber from its complemental portion, tearing means to rupture the membrane by the displacement of the electrolyte upon distention of the bladder, and a shield dividing the working chamber from said supplemental container portion, said shield be-

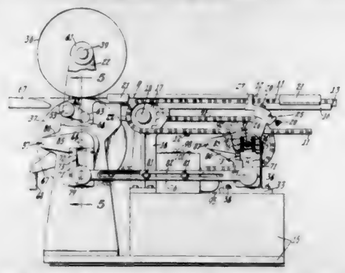


ing formed with narrow channels and having perforations along the channels remote from the bladder to prevent the bladder from sealing off the perforations.

2,529,512
UNSATURATED ALKYD FOAM RESINS
John B. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 4, 1948, Serial No. 25,093
9 Claims. (Cl. 260—2.5)

1. A process which comprises heating at 80 to 175° C., a composition comprising 100 parts of a mixture of an unsaturated polyester resin derived from a dihydrate alcohol and an alpha, beta-ethylenically unsaturated dicarboxylic acid with a vinylidene monomer copolymerizable therewith and from 0.1 to 10 parts of a monoacyl azide which is stable at temperatures ranging from 20 to 50° C. but which decomposes readily at 80 to 175° C.

2,529,513
GAUGE DRIVING DEVICE FOR SHEET FEEDING AND GAUGING MECHANISMS
William Pechy, Manasquan, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application October 26, 1948, Serial No. 56,618
10 Claims. (Cl. 271—8)

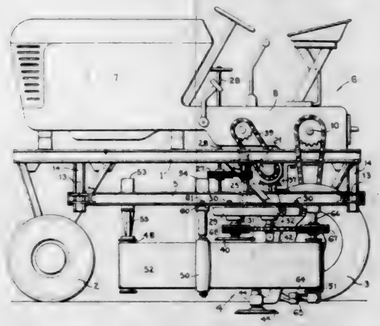


1. In a sheet feeding and gauging mechanism, the combination of feeding means engageable with a sheet of material for advancing it along a path of travel, a gauge shaft located at right angles to said path of travel, a sheet gauging device mounted for rotation on said gauge shaft said sheet gauging device having a gauging element engageable against the back edge of said advancing sheet for shifting said sheet into a gauged position, a sheet advancing shaft disposed parallel to said gauge shaft, sheet advancing means mounted on said sheet advancing shaft and including gripper elements disposed in a predetermined spaced relation to said gauging element for receiving said gauged sheet and for further advancing it in its gauged position, a crank secured to said gauge shaft, a crank of equal length secured to said sheet advancing shaft, and a rigid connection between said cranks to connect said gauging device and said sheet advancing means for operating said device and said means in timed relation, said rigid connection maintaining said predetermined spaced relation between said gauging element and said gripper elements during the gauging and gripping of said sheet.

2,529,514
METHOD OF VACUUM PACKING FOOD PRODUCTS UNDER AGITATION
Howell L. Roberts, Maywood, and Peter Sognefest, Broadview, Ill., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 8, 1947, Serial No. 767,664
15 Claims. (Cl. 99—214)

1. The method of packing vegetables and similar food products in hermetically sealed containers so as to preserve their color, flavor, texture, nutritive value and vitamin contents in improved condition, which consists in filling the product in the container with a quantity of canning liquid representing about 7% to 22% of full container volume to create hot sterilizing vapor and hot sterilizing liquid to effect rapid heat penetration when the container is heated and agitated but being insufficient to fill to an appreciable extent void spaces between the product particles and insufficient to appreciably extract color, flavor and nutritive values from the food product, hermetically sealing said container under a relatively high vacuum, then heat processing the sealed container to heat said vapor and canning liquid to a sterilizing temperature, and agitating said container during the processing period to cause the heated liquid to flow in the void spaces and over all of the product surfaces.

2,529,515
CELERY HARVESTER
Willard C. Silva, Sarasota, Fla.
Application September 5, 1945, Serial No. 614,498
8 Claims. (Cl. 55—107)



1. Celery harvester comprising a vehicle frame supported on vehicle wheels adapted to be drawn astride a row of standing celery longitudinally thereof, and a harvester unit beneath said frame including a sub-frame and the following instrumentalities carried thereby: laterally spaced longitudinally disposed members relatively rear-

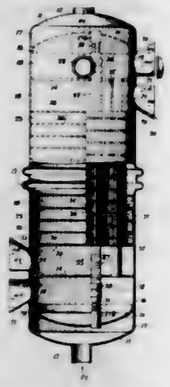
wardly convergent at their forward ends, defining between them a celery passage, top cutting means at an intermediate point in the length of said passage at a relatively high level, and root cutting means rearwardly of said top cutting means at a relatively low level, said top and root cutting means being in the path of celery moving rearwardly through said passage; means between said vehicle and sub-frames for raising and lowering said sub-frame bodily relative to said vehicle frame, without tilting it, for adjusting the ground depth of said root cutting means without changing the relative position of said instrumentalities, power means on said vehicle frame and driving connections from said power means to said raising and lowering means and to said top and root cutting means, the driving connections to said top and root cutting means including means for compensating for variations in the distance of said sub-frame from said vehicle frame.

2,529,516

HEAT EXCHANGER

Edward G. Scheibel, Nutley, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y.

Application January 15, 1946, Serial No. 641,276
9 Claims. (Cl. 257—224)



1. A heat exchanger comprising a cylindrical shell, a pair of header plates in spaced relation at each end of the shell extending thereacross defining two contiguous headers at each end of the shell, the end headers being for flow of oxygen therethrough, and the adjacent headers and the intermediate portion of the shell serving for alternate flow therethrough of air and nitrogen, two sets of tubes, one set of tubes for flow of oxygen therethrough connecting the end headers and the other set of tubes connecting the said adjacent headers, each tube of both sets of tubes having an interior accordion fin of foil-like metal of high heat conductivity arranged to form four series of substantially triangular-shaped channels extending longitudinally through the tube, the base portions of two series of the triangular-shaped channels being in intimate contact with the interior surface of the tube and the base portions of the other two series of channels being in contact with each other and disposed in a plane bisecting the tube longitudinally, and an accordion fin on the exterior of the tube arranged to form two series of triangular-shaped channels in contiguous relationship, with the base portions of the triangles of one series in intimate contact with the exterior surface of the tube and the base portions of the triangles of the other series spaced from the walls of said tube and arranged in a hexagonal outline surrounding the tube, said tubes being stacked within the shell to form a bundle of tubes, the inner tubes of said bundle having each side of the hexagonal outline of exterior fins in contact throughout substantially the full area thereof with the side of the hexagonal outline of a contiguous tube in the bundle, and the outer tubes in said bundle having at least three sides of said hexagonal outlines in contact with the sides of the hexagonal outlines of the exterior fins on contiguous tubes, the remaining sides of each of said hexagonal outlines surrounding said outer tubes being disposed opposite the interior surface of the shell, baffles disposed at spaced intervals along the length of the shell in the space between the interior surface of the shell and the said remaining sides of said hexagonal outlines on the outer tubes of said bundle, whereby flow of air takes place through the triangular channels defined by the said exterior fins, while at the same time flow of nitrogen takes place through the said adjacent headers and the interior of the second set of tubes, and upon reversal flow of air takes place through said adjacent headers and through the interior of the second set of tubes and flow of nitrogen takes place through the said triangular channels defined by the said exterior fins, the flow of oxygen taking place at all times through the end headers and the first-mentioned set of tubes, each set of fins on both the interior and exterior of each tube having at spaced points along the length thereof relatively narrow slots so that turbulent flow of oxygen, nitrogen and air takes place, the tubes and fins being of copper while the shell is of nickel steel, an expansion joint substantially midway between the ends of the shell and expansion joints in each oxygen tube in the portions thereof extending through said adjacent headers.

2,529,517

AMBULANCE COT HOOK

Earl L. Schofield, Rockford, Ill., assignor, by mesne assignments, to Superior Coach Corporation, Lima, Ohio, a corporation of Ohio

Application February 4, 1948, Serial No. 6,222
20 Claims. (Cl. 296—19)

1. In a cot hook, a horizontal hook-shaped jaw mounted on a support for releasably hooking onto an upright post or the like on one end of a cot disposed alongside the support, another horizontal hook-shaped jaw movably mounted on said support in spaced relation to the first jaw and facing in the same direction as the first jaw for releasably locking engagement with another upright post or the like on the other end of the cot, a single spring normally urging the second jaw to one extreme position in locking relation to the second post, a stationary abutment on said support in a fixed spaced relationship to the first jaw for engagement with the second post on the opposite side thereof from the second jaw, whereby end thrust of the cot in either a forward or rearward direction is assumed by the first jaw and abutment independently of the second jaw when the cot is in transit in fastened position, and manually operable means directly connected with said second jaw moving it in either direction, movement in one direction being against resistance of said spring.

2,529,518

CYCLOALKENYL HALOGENATED HYDROXYCINNAMIC ACIDS

Erwin Schwenk, Montclair, N. J., and Domenick Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Original application April 19, 1948, Serial No. 21,853. Divided and this application May 21, 1948, Serial No. 28,534
7 Claims. (Cl. 260—520)

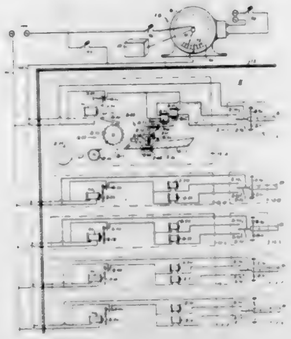
1. α-Cycloalkenyl-p-hydroxycinnamic acid substituted in at least one of the positions ortho to the hydroxyl by a halogen having an atomic number not less than 17 and not more than 53.

2,529,519

AUDIENCE-REACTION ANALYZING SYSTEM

Paul Schwerin, White Plains, N. Y., assignor to Schwerin Research Corp., New York, N. Y., a corporation of New York

Application September 28, 1948, Serial No. 51,630
14 Claims. (Cl. 346—33)



1. In an audience-reaction analyzing system for evaluating the reactions of an audience of a plurality of observers observing the progress of a performance, such as a radio broadcast performance: signal means including an array of a plurality of signal units, one for each observer; each signal unit having signal means selectively operable by an observer to establish a set of different signal conditions corresponding to different reactions of the observer to the performance; recording means including an array of a plurality of recording units for cooperation with the corresponding different signal units; each recording unit having a set of a plurality of punches corresponding to different signal conditions of the corresponding signal unit; record carrier elements operative to advance a succession of sheet elements of record sheet material along corresponding different recording units so that successive sheet elements of said sheet material shall be advanced to successive positions of alignment with the set of punches of the corresponding recording unit; control apparatus including control elements arranged to operate in predetermined synchronized relation to the progress of a performance for performing a succession of control operations synchronized with predetermined successive portions of the performance; each recording unit having punch selector means operative in accordance with the selective operation of the corresponding signal unit so that, depending on the different signal conditions of the corresponding signal unit, a control operation of said control apparatus shall cause a selected punch of the corresponding recording unit to punch a perforation in a selected record position of an aligned sheet element in accordance with the operation of said signal means; and interlinking elements interlinking the operation of said carrier elements with the operation of said recording units for causing each succession of sheet elements to be advanced to a successive punch position before performing another punching operation; and punch operating elements operative in response to a control operation for causing the different recording units to selectively punch perforations in a selected position of each of the record sheet lengths advanced along said recording units in accordance with the selected signal conditions of the corresponding signal units.

2,529,520

LOW-TEMPERATURE POLYMERIZATION PROCESS FOR UNSATURATES

William J. Sparks, Westfield, and John D. Garber, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 8, 1946, Serial No. 682,145
6 Claims. (Cl. 260—85.3)

1. A process for copolymerizing a mixture of 70 to 99% isobutylene and 30 to 1.0% of a material chosen from the class consisting of styrene and a multiolefin having more than 1 carbon to carbon double bond linkage per molecule and from 4 to 14 carbon atoms per molecule comprising the steps of polymerizing the mixture at a temperature between −40 and −164° C. in the presence of a dissolved Friedel-Crafts catalyst, a hydrocarbon as solvent for the polymer which solvent is liquid at the reaction temperature and an alkyl halide non-solvent for the polymer which non-solvent is a liquid at the reaction temperature, whereby the solid polymer is sufficiently solvated to permit a ready clearing of the reactor without producing a high viscosity mixture, the said solvent and nonsolvent being mixed in a proportion within the range of equal parts of nonsolvent and solvent to ⅓ solvent and ⅔ nonsolvent, the mixture being present in an amount such as to provide in the polymerization mixture from 15 to 35% of nonsolvent.

2,529,521

TRISUBSTITUTED ACETIC ACIDS

Nathan Sperber, Bronx, and Domenick Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application July 1, 1946, Serial No. 680,850
8 Claims. (Cl. 260—540)

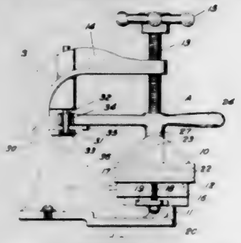
1. A method for the preparation of acetic acids containing three organic radical substituents on

the alpha-carbon atom which comprises treating a trisubstituted acetamide of the general formula

$$(R)_3C.CONH_2$$

wherein the R's represent organic radicals selected from the group consisting of alkyl, phenyl, cyclohexyl, dimethylaminoalkyl, and piperidinoalkyl, with a lower alkyl nitrite and a strong inorganic acid in the presence of an organic solvent.

2,529,522
VULCANIZING MOLD PRESS
Melvin W. Van Scoyk, Denver, Colo., assignor to Winner Equipment Company, Denver, Colo., a corporation of Colorado
Application April 9, 1946, Serial No. 660,668
2 Claims. (Cl. 18—18)



2. A tube plate comprising a support including a base, an overhanging arm, a horizontally extending shelf spaced above said base, and a vertical pin extending upwardly from said shelf; a lower plate mounted on said base; a horizontally movable arm pivoted on said pin, said arm having a beveled hole through which said pin extends and a depending boss adapted to rest on said shelf to maintain said arm in substantially horizontal position when said arm is moved to the side; an upper plate attached to said pivoted arm; a screw mounted on said overhanding arm for producing pressure between said upper and lower plates, said movable arm having a socket for receiving the lower end of said screw; a second boss depending from said pivoted arm beneath said socket for engaging said upper plate, said boss terminating in a substantially semi-cylindrical surface and said upper plate having a substantially semi-cylindrical groove for receiving said cylindrical surface; a pin extending laterally through the lower end of said second boss for attaching said upper plate to said arm; and means for heating an article clamped between said plates.

2,529,523
MINERAL LUBRICATING OIL COMPOSITION
Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 29, 1947, Serial No. 744,785
4 Claims. (Cl. 252—33)

1. A lubricating composition comprising a mineral oil base and blended therewith, in a proportion adequate to impart a detergent property to the composition, a mineral oil concentrate of compounds conforming to the formula

$$(RCOCH_2—SO_3)_nM$$

where R represents alkaryl radicals derived from a mineral oil containing aromatic hydrocarbons having alkyl side chains of from about 10 to about 26 carbon atoms, n is 1 or 2 and M is from the group consisting of the alkali and alkaline earth metals.

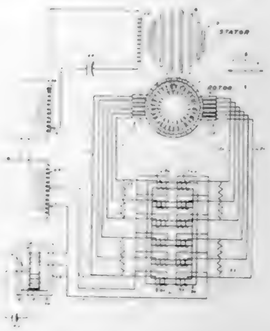
2,529,524
MINERAL OIL COMPOSITION
Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 16, 1947, Serial No. 774,431
3 Claims. (Cl. 252—33)

1. A mineral lubricating oil composition comprising a mineral oil base as its major component and containing as a detergent or dispersant an effective amount of a compound of the formula,

$$(RCOCH_2—SO_3—)_nM$$

in which R is an alkylated phenyl group comprising an alkyl radical containing from 10 to 26 carbon atoms, n is 1 or 2, and M an alkali or alkaline earth metal.

2,529,525
ALTERNATING CURRENT COMMUTATOR MACHINE
Leland Clay Weathers, Plymouth, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 28, 1948, Serial No. 41,113
6 Claims. (Cl. 318—244)

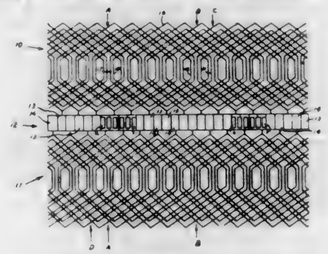


1. In a rotating dynamoelectric alternating current machine system including a machine of the shunt type having an armature, a commutator, an armature circuit and means to produce a mutual flux in the iron of said machine in phase with the armature circuit applied voltage, the combination with means for maintaining the armature current in phase with said mutual flux including a resonator transformer having a primary winding in series with said armature circuit and a secondary winding having a capacitor connected thereacross for inserting capacitive reactance into said armature circuit in an amount substantially equal to the inductive reactance of said circuit.

2,529,526
ALTERNATING CURRENT COMMUTATOR MACHINE
Leland Clay Weathers, Plymouth, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 28, 1948, Serial No. 41,114
6 Claims. (Cl. 318—244)

1. In an electrical machine, an armature winding comprising a plurality of electrically independent similar windings each having a plurality of coils, a commutator having a plurality

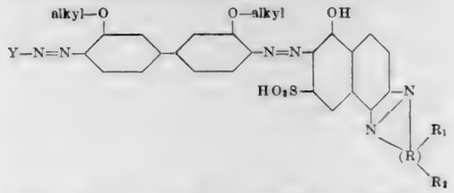
of commutator bars, the coils of each of said windings having their terminals connected to non-adjacent bars of said commutator, the active conductors of all of said coils being positioned in groups spaced an electrical angle equal to 360 electrical degrees divided by the number of coils



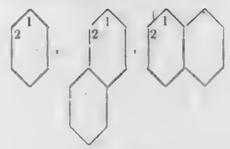
in each winding in said 360 electrical degrees, each of the coils of said windings having a plurality of portions of different pitch positioned to effectively space the coils of one winding from the coils of another winding an electrical angle equal to the electrical angle between the centers of adjacent commutator bars.

2,529,527
COPPER COMPLEX COMPOUNDS OF SUBSTANTIVE AZO DYESTUFFS AND A PROCESS OF MAKING SAME
Walt Wehrli and Ernst Iselin, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland
No Drawing. Application December 11, 1947, Serial No. 791,170. In Switzerland December 13, 1946
14 Claims. (Cl. 260—146)

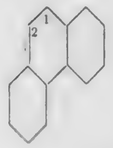
1. A copper complex compound of a substantive azo dyestuff of the formula



wherein Y stands for a hydroxynaphthalene sulfonic acid radical, R stands for a member of the group consisting of

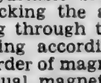


and



and R_1 and R_2 each represents a member of the

group consisting of hydrogen, hydroxy, methyl, methoxy, ethoxy and carboxy, the grouping



being connected to the remainder of the molecule at the indicated 1- and 2-positions.

2,529,528
MODIFICATION OF DRYING OILS
Gordon M. Williams, Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware
No Drawing. Application April 23, 1947, Serial No. 743,463
8 Claims. (Cl. 260—407)

7. The method of increasing the siccative power of double bonded fatty oils and the fatty acid thereof which comprises, halogenating at least a portion of the double bonds of said fatty compounds and thereafter reacting the halogenated product with a metallo-unsaturated aliphatic compound.

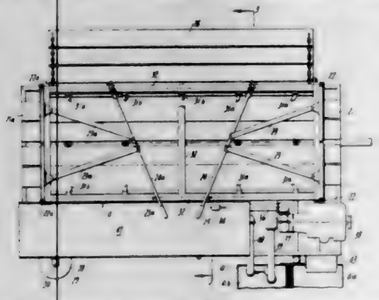
2,529,529
METHOD AND MEANS FOR LOCATING NEUTRAL POINT BRUSH SETTINGS
Philip D. Zemansky, San Francisco, Calif.
Application October 10, 1945, Serial No. 621,641
4 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of locating the neutral brush position in a direct current dynamo-electric machine having adjustable brushes comprising the steps of (1) locking the armature against rotation, (2) passing through the field circuit a direct current varying according to a periodic function and of an order of magnitude insufficient to reverse the residual magnetism in the field, (3) measuring the voltage across the armature caused by the pulsating field and (4) adjusting the position of the brushes until the armature voltage is a minimum.

2,529,530
LIVESTOCK SPRAYER
William Abildgaard and William H. Abildgaard, San Jose, Calif., assignors, by mesne assignments, to Livestock Sprayer Mfg. Co., San Jose, Calif., a corporation of California
Application July 1, 1946, Serial No. 680,696
2 Claims. (Cl. 119—159)

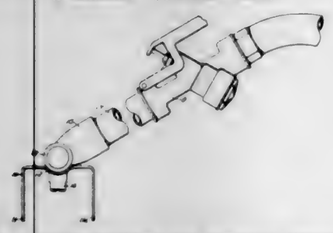
1. A portable livestock sprayer comprising a body having side walls and an apertured bottom

wall, wheeled supports for the body, gates at the respective ends of said body, said walls and said gates forming an enclosure for an animal, a spray system including a plurality of nozzles disposed about the bottom and side walls of the body, a supply tank mounted on and substantially against one of said walls with the top wall thereof providing an elevated platform form which the operator can view an animal in the enclosure, a drain tank below the apertured bottom



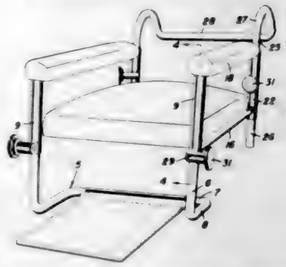
wall, a pressure system including a pump and a valve for supplying liquid under pressure to the nozzles, gate operating means connected to said gates, means mounting said gate operating means in position to be accessible to an operator standing on said platform, and a device for operating said valve, said device also being mounted in a position to be accessible to an operator standing on said platform, whereby the operator can, from one standing position, operate both said gate operating means and said device.

2,529,531
GRUB SCRUBBER
William Abildgaard and Charles C. Herbert, San Jose, Calif., assignors to Livestock Sprayer Mfg. Co., San Jose, Calif., a corporation of California
Application March 17, 1947, Serial No. 735,151
2 Claims. (Cl. 119—156)



1. In a grub scrubber for treating livestock, a rake structure comprising a pair of spaced apart parallel rows of teeth connected by a central support portion extending substantially transversely to the teeth and offset from the working ends thereof, the respective teeth of the rows being evenly staggered with respect to each other and the working ends of the teeth being blunt and, for the removal of the grub of the warble fly, being approximately one-quarter inch in width, and the spacing between adjacent teeth being approximately from one-quarter to one-half inch to provide complete treatment of the area covered by the rake structure, the spacing of said teeth providing for straddling of a sore in the area being treated to exert a squeezing action thereon, the spacing of said rows being approximately four times the spacing of adjacent teeth in said rows to enable said rows to contact the hide being treated along lines respectively on opposite sides of sores in the hide so that pressure exerted on said hide along said lines of contact will cause the hide part intervening between said lines to bulge outwardly with a convex curvature to thereby open the outer parts of the sores, a conduit member mounted on said rake structure and extending between said rows of teeth and being spaced from said rows, and nozzle means on said conduit member substantially equidistant from the respective rows of teeth, and spaced from each of said rows for directing spray of insecticide directly on sores held open by the teeth of said two rows pressing simultaneously on the hide along said lines of contact.

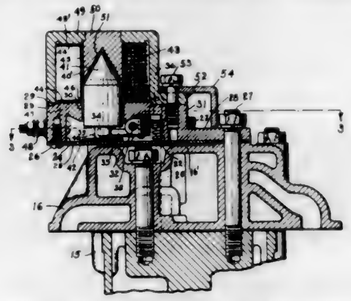
2,529,532
AUXILIARY SEAT FOR BEAUTY PARLOR CHAIRS AND THE LIKE
Sylvia H. Abbott, North Redondo, and James F. Hutchinson, Gardena, Calif.
Application April 5, 1949, Serial No. 85,534
3 Claims. (Cl. 155—131)



1. An auxiliary seat for chairs comprising a front substantially U-shaped support forming a pair of front legs, a rear inverted substantially U-shaped hanger, front and rear pairs of tubes slidably receiving the front legs and lower ends of the hanger respectively, means securing the front legs and ends of the hanger in slidably adjusted position in the tubes, arms pivotally connected to the front and rear tubes, and a seat pivotally connected to the front and rear tubes, said hanger being adapted to engage a swingably inclined back of a main chair for swinging movement therewith, and said support being adapted to rest on the seat of the main chair for rocking movement to maintain the auxiliary seat and arms horizontal with the main seat.

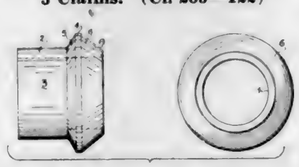
2,529,533
SOLENOID PLUNGER MECHANISM
John R. Almond, Cleveland, and William C. Bosworth, Lakewood, Ohio, assignors to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 3, 1945, Serial No. 632,582
3 Claims. (Cl. 175—341)

1. Valve control mechanism comprising a solenoid winding, a solenoid armature having a groove in the end thereof outside of said winding, a lever fulcrumed between its ends and having two arms, the first of said arms extending into said groove and engaging the inner side thereof, resilient means in said groove and engaging the outer side thereof, mechanical means engageable with and actuatable by the second of said arms, resilient biasing means constantly urging said mechanical means against said second arm and the first arm away from said inner side of the groove, said resilient means serving to transmit to the lever motion of the solenoid armature in opposition to



the urging of said biasing means upon energization of the solenoid winding and serving to transmit to the solenoid armature motion of the lever under the urging of said biasing means upon de-energization of said solenoid winding.

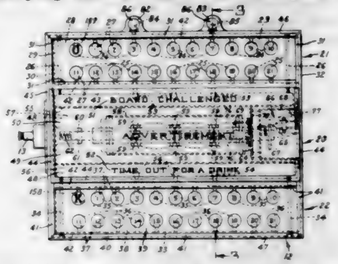
2,529,534
ADAPTER
Norbert C. Beerli, Mayfield Heights, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application March 20, 1946, Serial No. 655,743
3 Claims. (Cl. 285—122)



1. A fitting comprising an axially apertured body member, said aperture having a cylindrical section and a flaring section leading therefrom terminating in an edge, a fluid-conducting member terminating in a portion having an internal outwardly flaring conical surface, an adapter member having a cylindrical sleeve portion positioned in and guided by the cylindrical section of said body member aperture, said sleeve portion terminating in a radially enlarged portion having axially oppositely facing generally radially extending surfaces, the surface of said adapter facing the sleeve portion being divergent from the flared surface of said body member and making line sealing engagement with said edge thereof, the other generally radial surface of said adapter being conical and making sealing engagement with the conical surface of said fluid-conducting member, and nut means threaded to said body member to clamp the parts together.

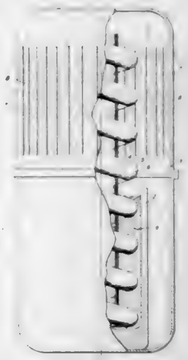
2,529,535
SHUFFLEBOARD SCOREBOARD
Friedrich H. Bertelsmeyer, Stamford, Conn.
Application October 4, 1946, Serial No. 701,294
6 Claims. (Cl. 177—384)

1. In a display apparatus, a body including an intermediate section and upper and lower sections, a corresponding number of individual compartments in each of said upper and lower sections, indicators for each of said compartments and at each side thereof, means in each of said compartments and adapted when energized to make clearly visible the indicators at both sides of the compartment, means to successively energize said means of a selected section, a movable means in said intermediate section carrying advertisements and adapted to be



brought into registry with windows in the section, means to advance said movable means to bring various of said advertisements into registry with said windows, and means to automatically energize said movable means advancing means on the energizing of predetermined ones of said means.

2,529,536
FLUID EVAPORATING DEVICE
Johan Bjorksten, Chicago, Ill.
Application October 26, 1945, Serial No. 624,757
3 Claims. (Cl. 299—20)

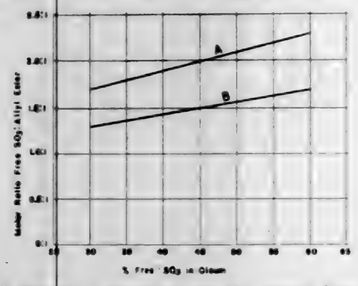


1. A liquid evaporating device comprising, in combination, a liquid-holding member, a reversible wick-supporting member, extending transversely of the liquid holding member; wick means extending transversely of the wick-supporting member and having substantially similar wick portions on each side of said wick-supporting member long enough to be immersed in the liquid, said wick portions being connected with each other and said wick-supporting member being readily detachable relative to the liquid holding member.

2,529,537
SULFONATION OF ALLYL ESTERS
John S. Brod, Wyoming, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
Application July 13, 1948, Serial No. 38,405
13 Claims. (Cl. 260—400)

1. The process of preparing substantially neutral wetting, sudsing and washing agents which

comprises admixing an allyl ester of soap-forming monocarboxylic acids containing about 8 to about 22 carbon atoms with oleum containing 30 per cent to 60 per cent by weight of free sulfur trioxide to effect reaction between allyl ester and oleum thereby forming a sulfonic acid, the oleum being added to the allyl ester in such manner and amount that the molar ratio of free sulfur trioxide added:allyl ester lies above line



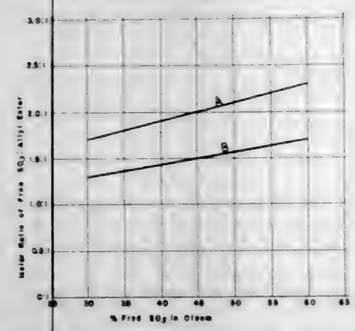
B of Figure 1 when all of the oleum has been added but at no time during the addition lies substantially above line A, maintaining the temperature between 10° C. and 60° C. while the reaction takes place, and thereafter eliminating excess free SO_3 and sulfuric acid and neutralizing the sulfonic acid at a temperature not substantially above 50° C. to a pH above 4.5 to form a water-soluble salt and in such a manner that the mixture is at no time substantially alkaline.

2,529,538

SULFONATION OF OLEFINS

Ronald A. Henry, Inyokern, Calif., and John S. Brod, Wyoming, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

Application July 13, 1948, Serial No. 38,406
19 Claims. (Cl. 260—400)



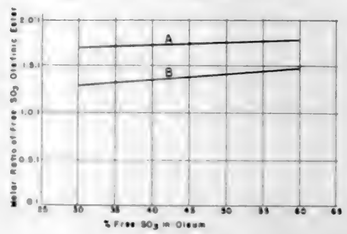
1. The process of preparing wetting, sudsing and washing agents which comprises admixing a high molecular allyl ester with oleum containing from 30 per cent to 60 per cent free sulfur trioxide by weight to effect reaction between said ester and said oleum, the oleum being added to the ester in such manner and amount that the molar ratio of free sulfur trioxide added:allyl ester lies above line B of Figure 1 when all of the oleum has been added, but at no time during the addition lies substantially above line A, while restraining the temperature of the reaction mixture from rising substantially above 60° C.; thereafter admixing the acid mixture with a high molecular olefine, to cause reaction therewith while restraining the temperature of the reaction mixture from rising substantially above 60° C.; and thereafter neutralizing the product to form a water-soluble salt by mixing therewith an alkaline neutralizing agent in such manner that the mixture is at no time substantially alkaline and while restraining the temperature from rising substantially above 50° C.

2,529,539

SULFONATION OF UNSATURATED ESTERS

John S. Brod, Wyoming, Ohio, and Ronald A. Henry, Inyokern, Calif., assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

Application July 13, 1948, Serial No. 38,407
19 Claims. (Cl. 260—400)



1. A process of preparing wetting, sudsing and washing agents which comprises admixing an olefinic ester, said ester being that of a soap-forming high molecular monocarboxylic acid and a low molecular monohydric olefinic alcohol, with oleum to effect reaction therewith in the presence of a thinning agent having the chemical formula

$$RC(=O)-OR'$$

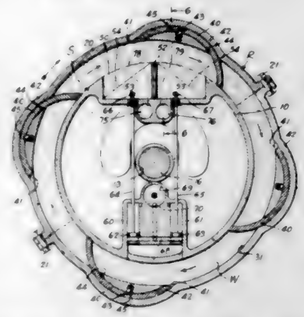
wherein R is an alkyl group containing not less than one nor more than 3 carbon atoms and R' is an alkyl group containing not less than one nor more than 5 carbon atoms.

2,529,540

HYDRAULIC RESISTANCE BRAKE FOR ROTARY MEMBERS

Ralph E. Cornwell, La Canada, Calif.

Application August 25, 1949, Serial No. 112,203
9 Claims. (Cl. 188—90)



1. Hydraulic braking mechanism comprising: a stator; an annular rotor receiving the stator and co-acting therewith to define therebetween an annular working chamber for liquid; segmental shaped vanes mounted in the rotor for oscillatory movement from one extreme position to another to dispose one end portion or the other thereof in spanning relation to the working chamber for circulation of the liquid in the chamber by the vanes when the rotor is rotating; a main valve mounted in the stator for movement from a non-operating position to an operating position in the working chamber so as to oppose circulation of liquid in the latter by the vanes; said valve having a cam surface extending circumferentially of the stator and by which the vanes are oscillated from one extreme position to the other so as to permit the vanes to pass the valve when the latter occupies an operating position; and means by which a restricted circulation of liquid in the working chamber can be effected around the valve when in operating position, so as to produce a braking action upon the rotor.

2,529,541

KNITTED STRUCTURE AND METHOD OF PRODUCING SAID STRUCTURE

William P. Crawley, Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application November 5, 1946, Serial No. 707,793
4 Claims. (Cl. 66—172)

1. Method which comprises producing a continuous structure composed of a plurality of knitted articles the adjacent edges of which are joined by a single course of a yarn formed from fibers of a copolymer of vinyl chloride and vinyl acetate which have been stretched by about 800%, said joining yarns having a yarn count and denier the same as the yarn count and denier of the yarns forming the joined articles, but having a lower fusing temperature than that of any thermoplastic yarns present in the knitted articles, and thereafter simultaneously subjecting the joining yarns to heat and applying tension to the structure to convert the highly stretched copolymer fibers to a softened condition in which they tend to contract strongly in opposition to the restraining force of the stitches of the joined articles and to effect disintegration of the joining yarns to discrete particle form, thereby disconnecting the articles.

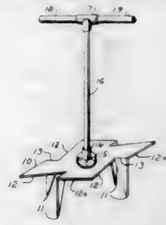
2,529,542

HAND CULTIVATOR AND WEEDER

Peter De Conti, New Britain, Conn.

Application October 29, 1948, Serial No. 57,360
3 Claims. (Cl. 97—61)

1. In a hand cultivator and weeder, a handle and a base thereon, said base having a circular series of flat prongs depending at right angles thereto and integral therewith, the planes of said flat prongs all being tangent to a circle



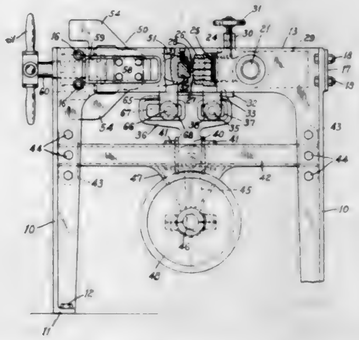
which is concentric with said handle, and of minor size in relation to the base.

2,529,543

STAMP FORMING APPARATUS

Stanley Diuk, Canton, Ohio, assignor to Tru-Mark Mfg., Inc., Canton, Ohio, a corporation of Ohio

Application May 28, 1947, Serial No. 750,921
11 Claims. (Cl. 101—401.5)



1. Stamp forming apparatus including a frame, a stamp blank holder and a die block holder, means pivotally mounting said holders in opposed relation in said frame, one of said pivotal mountings being slidable in said frame, screw means for feeding said slidably mounted holder toward and away from said other holder, power driven reciprocating means, and means operatively connecting said reciprocating means to said holders for oscillating said holders simultaneously in the same direction.

2,529,544

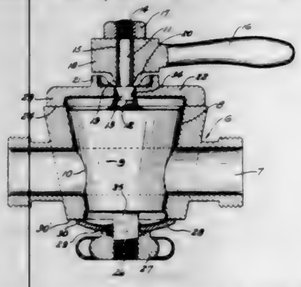
LIFT PLUG VALVE

Walter Ebert, Kenosha, Wis., assignor to Tri-Clover Machine Co., Kenosha, Wis., a corporation of Wisconsin

Application March 6, 1947, Serial No. 732,706
9 Claims. (Cl. 251—97)

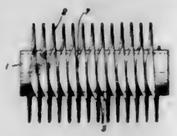
1. A valve comprising a valve body having a tapered bore, a tapered plug having a port therein, said plug being cooperable with said tapered bore and rotatable therein, a stem projecting from the large end of said tapered plug, a cover for the large end of the tapered bore of said valve body having an opening through which the stem of the plug non-rotatably extends, a handle rotatable on a projecting end of said stem, cooperating cam means on the inner portion of said handle and on said cover operable to cause axial movement of the plug during initial rotat-

ing movement of the handle, said cam means having engaging portions arranged to thereafter cause rotating movement of the cover and plug



upon further rotating movement of said handle, and yielding means normally urging said tapered plug into seated position.

2,529,545
FINNED TUBING
Ray C. Edwards, Glen Rock, N. J.
Application October 14, 1948, Serial No. 54,369
5 Claims. (Cl. 257—262.20)



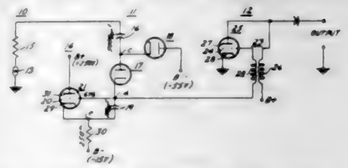
1. An improved heat exchange device consisting of a spiral wrapped finned metallic tube in which each fin bears a lip based on a line lying in the plane of each fin, all of the said base lines lie in a plane approximately parallel to the axis of the tube, said lips being on the same side of successive fins.

2,529,546
MANUFACTURE OF HYDROGEN CYANIDE
Leonard Fallows and Eric Vernon Mellers, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 7, 1945, Serial No. 633,534. In Great Britain January 9, 1945
16 Claims. (Cl. 23—151)

1. Process for the manufacture of hydrogen cyanide, which comprises subjecting formamide in the vapor phase to thermal decomposition in the presence of a catalyst comprising a metal tungstate.

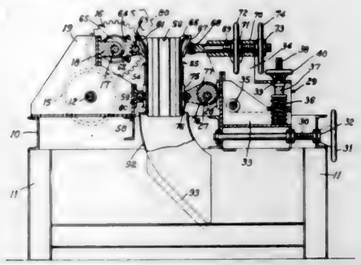
2,529,547
FREQUENCY DIVIDER
Joseph F. Fisher, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 23, 1948, Serial No. 16,410
8 Claims. (Cl. 250—27)

1. A frequency-dividing circuit comprising: a blocking tube oscillator; a source of recurrent voltage pulses of substantially equal amplitude; means, including a storage capacitor, responsive to said recurrent voltage pulses for cumulating incremental voltages whose amplitudes successively decrease; means, including an amplifier tube, responsive to said cumulating incremental voltages for developing and cumulating other incremental voltages whose amplitudes successively



increase; means for combining additively in an aiding sense both of said cumulating voltages; and means for applying said combined voltages to said blocking tube oscillator.

2,529,548
APPARATUS FOR CONDITIONING BAGGED MATERIAL
Clarence D. Fox, Quebec, Quebec, Canada, assignor of twenty one-hundredths to Maurice Stopford Cotterell, North Sidney, Nova Scotia, Canada, and twenty-five one-hundredths to Charles Edward McCormick, Fremont, Ohio
Application May 29, 1948, Serial No. 30,115
8 Claims. (Cl. 241—266)

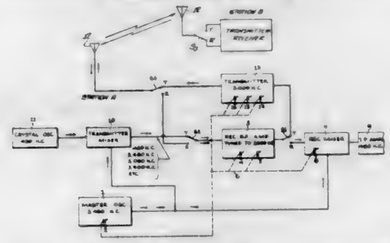


1. A machine for conditioning bagged material, including two, spaced, opposed pairs of substantially upright plates forming a substantially rectangular opening therebetween substantially conforming to the cross-sectional shape of the bagged material, means for intermittently alternately moving one opposed pair of plates inward and outward and for simultaneously moving the other opposed pair of plates intermittently outward and inward, and means for passing bagged material downward between said plates.

2,529,549
METHOD OF CLEANING CEMENT SURFACES PREPARATORY TO PAINTING
Irving A. Halpern, North Hollywood, Calif.
No Drawing. Application June 30, 1947, Serial No. 758,227
4 Claims. (Cl. 134—6)

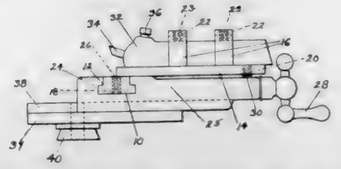
1. The method of cleaning cement and concrete surfaces preparatory to painting, consisting essentially of the steps of spreading over the surface to be cleaned an aqueous solution containing from five to eighty parts by volume of phosphoric acid (75%), twenty to ninety-five parts by volume of a solution in water of an alcohol volatile at room temperature, said water and alcohol being in proportions by volume of one to one-and-one-half of water to one volume of alcohol and an effective amount of a wetting agent for cement surfaces under strong acid conditions; brush-scrubbing the surface; adding a limited amount of water to the mixture on the surface; repeating the brush-scrubbing; scraping off the excess mixture; and washing off the surface with a large excess of water.

2,529,550
TWO-WAY RADIO COMMUNICATION SYSTEM
Walter A. Harris, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 27, 1944, Serial No. 546,845
5 Claims. (Cl. 250—6)



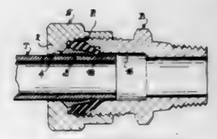
5. In a two-way communication system, a plurality of radio stations adapted to communicate with one another on the same frequency, each station comprising a transmitter, a receiver provided with tunable radio frequency amplifier circuits, a first oscillator, and a transmit-receive switching means for effectively coupling said oscillator through the tunable radio frequency amplifier circuits of the receiver to the transmitter to thereby provide a filter network to assure transmission of a carrier frequency substantially identical to that utilized for reception, and another oscillator coupled to said switching means and cooperating with said first oscillator in the transmitting position only of said switching means.

2,529,551
MACHINE LATHE
Edward F. Hausam, Normandy, Mo.
Application July 16, 1947, Serial No. 761,311
2 Claims. (Cl. 82—37)



1. The combination of a tool rest having an elongated T-slot and a tool post, said tool post comprising an elongated T-shaped foot dimensioned to engage the elongated T-slot in said tool rest, a base integral with said foot, said base having a front end overlying the rear part of said foot and having the front edge thereof spaced rearwardly of the front edge of said foot, a central part and a rear end, disposed wholly rearwardly of said foot, tool holding means on said base, a plurality of set screws carried in threaded openings in said foot and another set screw carried in a threaded opening in the rear end of said base, all of said set screws bearing against said tool rest, said plurality of set screws acting upon said foot and said tool rest to lock said foot in said slot of said tool rest, said other set screw acting upon said base and said tool rest to bend said base with respect to the foot and thereby create stresses within said base which are greater than stresses created in said base by the action of a work piece on a tool held in said tool holding means whereby said tool post is held rigid relative to said tool rest.

2,529,552
TUBE COUPLING WITH RUBBER SEAL
Robert E. Herold, Cleveland, Ohio, assignor to The Weatherhead Company, Cuyahoga County, Ohio, a corporation of Ohio
Application May 24, 1946, Serial No. 671,928
6 Claims. (Cl. 285—90)



1. In a tube coupling, a coupling body member, a nut having an abutment flange, a deformable metallic tube gripping sleeve member and a rubber ring member, said sleeve member having a cutting edge for shearing and displacing material of a tube, said rubber ring surrounding and bodily engaging all exposed surfaces of said sleeve member when the parts are assembled with a tube, said nut being threaded to said body member with its abutment flange engaging the rear portion of said rubber ring, the nut and tapered body parts being formed to provide a recess to receive and be partially filled by said rubber ring and to apply radial and axial pressure on said ring whereby a vibration resistant joint is provided.

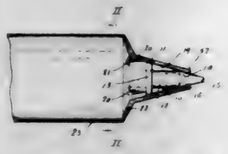
2,529,553
PREPARATION OF ALIPHATIC ALCOHOLS
William Hunter, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 4, 1946, Serial No. 713,915. In Great Britain January 16, 1946
8 Claims. (Cl. 260—639)

1. Process for the manufacture of a lower aliphatic alcohol containing less than four carbon atoms, which comprises absorbing in sulphuric acid of at least 85% concentration at least 0.8 molar part of an olefin of 2–3 carbon atoms per molar part of sulphuric acid, mixing with the absorption product at least 1.2 times its own weight of water, heating the mixture to hydrolyze the alkyl sulphates, separating any oil matter from the hydrolysis products by decantation, distilling the residue under subatmospheric pressure to obtain a head product of dilute aqueous alcohol of less than four carbon atoms of high purity, and continuing the distillation to obtain as base product sulphuric acid of at least 70% concentration, the base temperature throughout the distillation being maintained below 115° C.

2,529,554
CLOSURE FOR COLLAPSIBLE TUBES
Helmuth R. Katzmann, Buffalo, N. Y.
Application June 2, 1949, Serial No. 96,650
5 Claims. (Cl. 222—322)

1. The combination with a collapsible tube containing semi-liquid material, of a dispensing

nozzle at one end of the tube, the nozzle having a tapered bore thereby forming a measuring cylinder, a metering valve slidably mounted within said cylinder, the valve having a body, a tapered valve at the outer end of the body for sealing engagement with the measuring cylinder, an actuating tip formed at the extreme outer end of



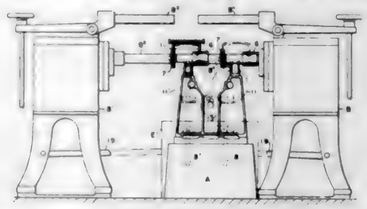
the body and projecting beyond the end of the nozzle for manual engagement to open the nozzle, and a valve flange formed at the inner end of the body and having its periphery tapered for sealing engagement with the tapered bore of the cylinder synchronously with the engagement of the tapered valve at the outer end of the body.

2,529,555
HEDDLE
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 16, 1946, Serial No. 710,265
2 Claims. (Cl. 139—96)

1. A heddle for loom harness made from a strip of material initially of uniform width from end to end, a central warp eye in said strip, and mortises at each end thereof for mounting the heddle on the supporting rods in a harness frame, the strip being cut away above and below the warp eye, but on one side only at each location, said cut-away portions extending from the central portion in which the warp eye is located to points adjacent the end mortises, and the cut-out above the warp eye being on the opposite edge of the strip from that of the cut-out below the warp eye.

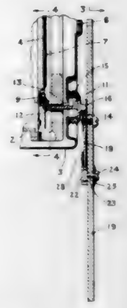
2,529,556
APPARATUS FOR MANUFACTURE OF TRUSSES
Stefan Keller, Munchen-Pasing, Germany
Application March 9, 1949, Serial No. 80,390
In France April 15, 1948
9 Claims. (Cl. 219—4)

1. In an apparatus for the weld-production of lattice beams composed of lateral chords and cross struts, a conveyor track, a welding unit positioned in the approximate center of said track, two adjacent roller trains one being an idling and the other one a welding roller train parallelly located on said track, conveyors supported on said roller trains, means to move



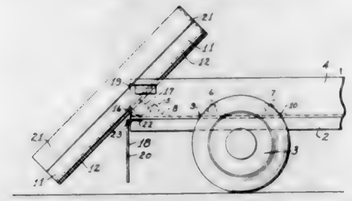
stepwise and for the distance between the ends of two adjacent parallel cross struts said welding roller train through the operational range of said welding unit and switch means to operate said welding unit during the passage of said beam portions.

2,529,557
MECHANISM FOR SETTING THE NEEDLES OR INDICATING HANDS OF HERMETICALLY SEALED VOLTMETER OR ANALOGOUS INSTRUMENTS
Herbert I. Keroes, Irvington, N. J., assignor to The Daven Company, Newark, N. J., a corporation of New Jersey
Application July 26, 1946, Serial No. 686,310
5 Claims. (Cl. 171—95)



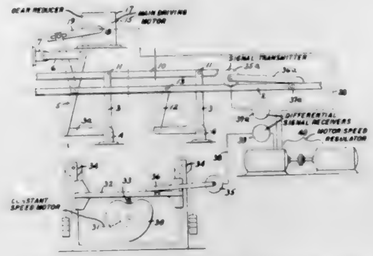
1. The combination with a volt meter or like instrument including a dial and an indicating hand for co-operation with said dial, of a hermetically sealed housing enclosing said volt meter, means for setting said indicating hand to desired positions relative to its normal rest position, including an indicating hand moving pin extending through said housing, a sealed bellows about the portion of said pin exteriorly of said sealed housing, said bellows attached to the housing with a fluid tight seal, a stud carried by said bellows and extending outwardly from the outer sealed end of the bellows, a face plate engaged by the outer end of said stud, said face plate attached to said housing in such manner as to provide limited compression of said bellows through its contact with said stud, and manually operated means carried by said face plate and engaging said stud to cause a wobbling movement of said pin through its connection with said bellows in moving said indicating hand, said stud having a semi-spherical outer end for slidable engagement with said face plate.

2,529,558
DUMPING BODY
Anthony T. Klingebiel, Richmond, Ind.
Application January 19, 1948, Serial No. 3,065
4 Claims. (Cl. 298—14)



1. In combination, a fixed body having a hinged end gate releasably secured to one end thereof, a dumping body located within the fixed body, means supporting the dumping body for longitudinal movement, a stop member located in the fixed body adjacent the end gate thereof, a stop block carried by the dumping body and adapted to engage the stop member, with the engagement of the stop block with the stop member in longitudinal movement of the dumping body arresting the longitudinal movement of the dumping body and permitting the dumping body to tilt to a dumping position, and with the hinged end gate of the fixed body providing means releasably securing the dumping body in the fixed body.

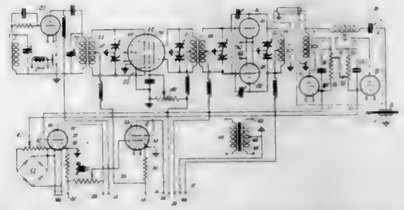
2,529,559
TRAVERSE MECHANISM FOR WINDING MACHINES
William H. Kreamer, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 27, 1946, Serial No. 718,830
9 Claims. (Cl. 242—43)



1. Traverse mechanism for winding machines comprising a carrier to be traversed, a variable-velocity motor for driving the carrier, a cam, means for driving the cam at constant speed, a device co-operating with the cam for developing an electrical signal the character of which is dependent on the change in contour of the cam, and means responsive to the electrical signal for controlling the velocity of the motor.

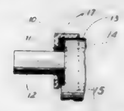
2,529,560
CONTROL APPARATUS FOR RADIO-FREQUENCY HEATING
Bohumir A. Larys, Murray Hill, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 28, 1947, Serial No. 788,533
6 Claims. (Cl. 219—47)

1. In a control system for maintaining constant the radio-frequency current to a variable-thickness dielectric load, a radio-frequency generator, a dialectric load, means for deriving a first voltage proportional to the current to the load, and a second voltage proportional to the output voltage of said generator, means for rectifying



said voltages, means for combining preselected portions of said rectified voltages to produce a single voltage which is a function of the thickness of the load, and means responsive to said single voltage for maintaining substantially constant the current to the load.

2,529,561
MICROMETER DUST GUARD
Joseph O. Le Comte, Cleveland, Ohio
Application April 30, 1947, Serial No. 744,815
1 Claim. (Cl. 288—3)

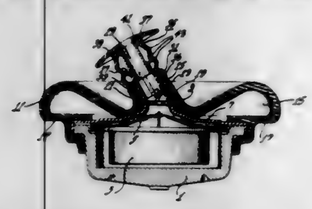


A dust guard for the spindle of a micrometer comprising a retainer member having a generally sleeve-like portion circumferentially discontinuous throughout its length, an end wall integral with said sleeve-like portion and having an aperture adapted to receive and clear the spindle of a micrometer, said sleeve portion being slit along a plane generally normal to the sleeve axis and intermediate the length of the sleeve to form first and second radially expansible portions, the first of said expansible portions being joined to said end wall at one edge and being free to expand somewhat due to its discontinuity, the second expansible portion forming a pair of opposed spring fingers to accommodate and grip a micrometer barrel, the edge of said first expansible portion also being adapted to spring over the end of the micrometer barrel, and a packing washer for sealing engagement with the micrometer spindle disposed in the generally cup-shaped recess formed by said end wall and first expansible portion.

2,529,562
ADJUSTABLE EARPIECE FOR RECEIVERS
Daniel W. Martin, Blackwood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 2, 1947, Serial No. 719,651
13 Claims. (Cl. 179—182)

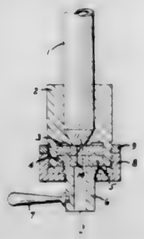
1. An earcap for headset telephone receivers which comprises a pad adapted to be placed against the outer portion of the ear to provide an external acoustical seal therefor, said pad having a chamber therein adapted to receive a telephone receiver, and a pleated tubular member extending from said pad and terminating in a freely disposed end, said tubular member communicating with said chamber to provide a pas-

sage for sound waves emanating from the telephone receiver, said freely disposed end being of a size to seat against the auditory canal of the ear at the entrance thereof to provide an in-



ternal acoustical seal for the ear, said pleated tubular member including means whereby it is longitudinally compliant for adjustment in an axial direction for accommodation to ears of different sizes.

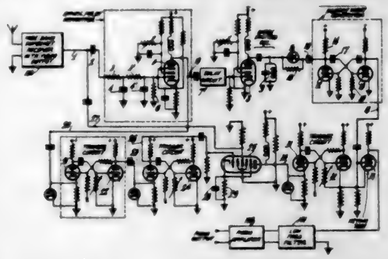
2,529,563
STRETCH TUBE ORIFICE
Hugh Miller, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 24, 1946, Serial No. 718,182
5 Claims. (Cl. 68—212)



1. Yarn guiding apparatus comprising supporting means, two relatively rotatable adjacent orificed discs having a common axis mounted on the supporting means, the orifice in each disc having a central area communicating with an eccentric area, means for rotating one of the discs relative to the other, complementary mating means between the opposed faces of the two discs for holding the central area of each orifice in registry in all relative positions of the two discs.

2,529,564
PULSE MULTIPLEX RECEIVING SYSTEM
William A. Miller, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 17, 1946, Serial No. 697,396
9 Claims. (Cl. 179—15)

1. In a pulse communication system wherein a plurality of spaced equal duration intelligence conveying pulses and at least one synchronizing pulse are transmitted for each frame or cycle of operations and wherein the occurrence time or phase of each intelligence conveying pulse is variable over a range by the signal modulation, the method of operation which includes receiving the transmitted pulses, producing from only the received synchronizing pulse a plurality of substantially equally spaced square waves corresponding in number to the number of pulses received during each frame or cycle of operations, separating the intelligence conveying pulses from the synchronizing pulse, combining the square waves with the separated intelligence car-



rying pulses in such manner as to convert the time modulated intelligence pulses to width modulated pulses.

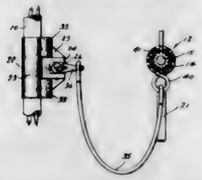
2,529,565
BOOT DRYING TREE
Donald A. Mills, Duluth, Minn.
Application June 15, 1946, Serial No. 677,009
5 Claims. (Cl. 211—34)

3. In a boot drying tree, two wire-like tapered frames pivotally united at both ends for folding or unfolding, the pivotal connection at the outside of the wider end terminating in means for suspending said tree, and at the inside of said wider end in a screw-threaded wing nut for subsequent loosening or tightening to move or hold said wire-like frames in their desired relationship to each other.

2,529,566
GLASS BONDED INSULATING COMPOSITION
Albert J. Monack, Rutherford, N. J., assignor to Mycalex Corporation of America, Clifton, N. J., a corporation of New Jersey
No Drawing. Application August 17, 1948, Serial No. 44,791
2 Claims. (Cl. 106—53)

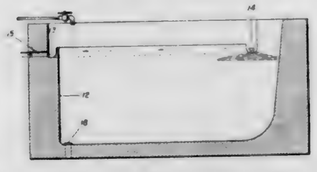
1. An electrical insulating composition consisting of a disperse phase comprising 40–70% by weight of finely divided mica powder and a low melting glass bonding medium made by fusing a composition consisting essentially of 7–13% of cryolite, 6–14% of alkali carbonates selected from the group consisting of sodium, potassium and lithium carbonates, 6% of alkaline-earth carbonates selected from the group consisting of barium, strontium and calcium carbonates, 36–41% of boric acid and 45–26% of lead oxide calculated at PbO.

2,529,567
DRILL CHUCK KEY HOLDER
Ludwig F. Neck, Kenmore, N. Y.
Application November 30, 1948, Serial No 62,714
1 Claim. (Cl. 24—73)



A key holder for portable drill machines and the like formed of a metal sheet shaped to provide a cylindrically shaped body part, one margin of said sheet that extends lengthwise of the cylindrical body part being divided to form spaced portions and an outwardly extending leg therebetween, a fastening means passing through said leg and the opposite margin of the sheet to clamp the body part to a support, said spaced portions being rolled to provide resilient spaced key-retaining members in registration with each other for receiving a key, and said leg being free of the key-retaining members along its opposite sides to leave the registered relation between the members undisturbed while tightening the fastening means.

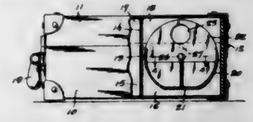
2,529,568
BATHTUB
Arthur Edward O'Hara, Montreal, Quebec, Canada
Application April 23, 1947, Serial No. 743,303
2 Claims. (Cl. 4—173)



1. In bathtubs, a bathtub comprising a front wall, side walls and a rear wall, water inlet means located over said front wall, a water outlet in the bottom of said bathtub, a formed trough extending part way around the inside of said bathtub adjacent to the top thereof, said trough extending across said front wall and continuing along each of said side walls in continuous unbroken formation and terminating short of said rear wall, said trough having a cut-out at each end thereof providing access to said trough of the water in said bathtub when same reaches the level of the cut-out, an overflow drain in said front wall and leading into said trough at that point and adapted to drain off the water flowing along said trough.

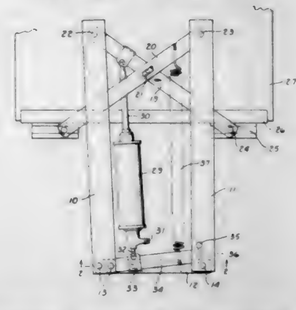
2,529,569
TRAVELING BAG COMBINED WITH REMOVABLE AND CONTINUOUSLY SELF-RIGHTING COSMETIC TRAY
John L. Overton, Seattle, Wash.
Application November 29, 1946, Serial No. 712,955
3 Claims. (Cl. 190—51)

1. A lady's travelling case comprising hingedly connected top and bottom sections producing the case proper and having coplanar partitions serving as a continuous separating wall dividing the interior of both the top and bottom sections into a cosmetic compartment and a clothing compartment when the case is closed with each said compartment being open to the top when the case



is open, and a tray for the reception of cosmetics rotatably supported by the side walls of said cosmetic compartment for continuously self-righting movement, the weight center of the tray lying below the swivel axis thereof.

2,529,570
REGULATOR MECHANISM
John B. Parsons, Toledo, Ohio
Application January 8, 1947, Serial No. 720,848
1 Claim. (Cl. 268—125)



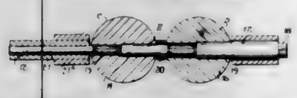
A regulator mechanism comprising a frame having a pair of laterally-spaced stanchions, a cross bar extending between the adjacent portions of said stanchions at one end, said cross bar having end portions overlapping the last-mentioned ends of said two stanchions, a pivot connecting one end portion of said cross bar and one stanchion, the opposite end of said one stanchion being relatively moveable toward and away from the other stanchion, the intermediate portion of said cross arm being embossed outwardly to lie in a plane outside the plane of said stanchions, a pair of spaced rivets fixedly connecting the other end portion of said cross bar to the other stanchion, a pair of cross arms pivoted together intermediate their ends, pivotal connections between corresponding ends of their arms and said stanchions, and means for swinging said arms whereby the pivotally mounted stanchion rocks toward and away from the other stanchion during the swinging of said cross arms from one extreme position to the other, the last-named means including a piston having a piston rod pivoted to one of the cross arms, a cylinder for said piston, a compensating arm for said cylinder pivotally supported at one end on one of said pair of spaced rivets in substantially overlapping relation to the adjacent end of said cross arm, said compensating arm extending between said stanchions and lying generally horizontally opposite said cross arm, a stop on said one stanchion for said compensating arm for limiting the upward swinging movement thereof, the lower portion of the free end of said compensating arm being cut away to enable same to swing downwardly against said pivot substantially into posi-

tion of alignment with respect to said cross bar, and a coil spring connected to the other cross arm at the other end and to said compensating arm at the other end.

2,529,571
INDUCTION DISK FOR WATTHOUR METERS AND THE LIKE
John Prince and Maurice Whitehead, Hollinwood, England
Application October 15, 1945, Serial No. 622,420
In Great Britain October 21, 1944
14 Claims. (Cl. 171—264)

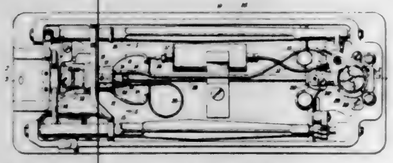
1. An improved induction disc comprising an inner flat annular member of a metal having a lower density than that of aluminum and which is chemically unstable when exposed to the atmosphere, said metal having a conductivity/mass ratio greater than that of aluminum, and a sheath of stable material surrounding said metal.

2,529,572
CARBURETOR VALVE
Frank J. Raybould, Lakewood, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application January 15, 1946, Serial No. 641,232
4 Claims. (Cl. 251—11)



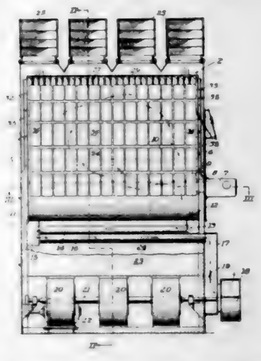
1. A valve assembly comprising a shaft having a splined portion and a cylindrical portion, the outside diameter of the splined portion being larger than the diameter of the cylindrical portion, a disc like valve member having a plurality of integral diametrically disposed outwardly extending substantially semi-cylindrical portions, said portions extending in alternately opposite directions, said semi-cylindrical portions engaging the cylindrical portion of the shaft and firmly gripping the splined portion of the shaft, and terminal bearing and supporting means on said shaft.

2,529,573
OIL METERING DEVICE FOR SEWING MACHINES
Herman Ritter, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 12, 1947, Serial No. 785,347
7 Claims. (Cl. 112—256)



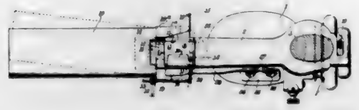
1. A sewing machine having a frame including a bed-portion, a reservoir containing lubricant associated with the sewing machine and including means for establishing a flow of lubricant therefrom, a rotary loop-taker, a rotary shaft journaled in the bed-portion for actuating the loop-taker, a lubricant conducting line connecting to the reservoir for supplying lubricant to the loop-taker, a metering device for governing the flow of lubricant to the loop-taker, and a replaceable lubricant filter in said line disposed between the metering device and the reservoir.

2,529,574
DIRECT FIRED HOT-AIR HEATING APPARATUS
Ralph M. Rush, Pittsburgh, Pa., assignor to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 4, 1945, Serial No. 614,312
5 Claims. (Cl. 126—110)



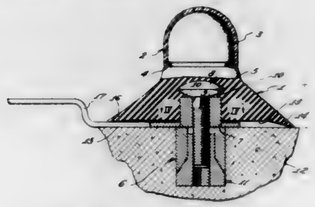
1. A unit heater comprising heat-conducting walls forming a horizontally extending internally fired combustion chamber having an outlet for the escape of products of combustion from points above the bottom of said chamber and adjacent to one end thereof, an outer casing having walls spaced from said heat-conducting walls and forming passageways for air to be heated, a header below said combustion chamber into which said outlet opens, a pass of horizontal heat-exchange tubes communicating at one end with said header, a flue-box communicating with the opposite end of said pass of heat-exchange tubes, an exhaust fan mounted upon the wall of said flue-box with the fan inlet opening through the wall of the flue-box, a burner opening through the combustion chamber wall adjacent to and above said header, said burner being directed to deliver a burning column of fuel and air longitudinally into the lower portion of said chamber and adapted to effect, in conjunction with said exhaust fan, the sweep of the flames and hot products of combustion through a succession of horizontal courses of flow, one of which extends in horizontal direction along the lower portion of said combustion chamber and away from said outlet, another of which extends in horizontal direction along the upper portion of said combustion chamber and then downward through said outlet, and another of which extends below the other courses in horizontal direction through said pass of heat-exchange tubes into said flue-box and exhaust fan, a fan for driving air upwardly through said passageways over the hot external surfaces of said heat-exchange tubes and said combustion chamber, a motor, and means for connecting said exhaust and air fans to said motor.

2,529,575
SEWING MACHINES FOR MAKING FABRIC TUBES
Rudolph J. Sailer, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application August 18, 1947, Serial No. 769,137
9 Claims. (Cl. 112—63)



1. In combination with a sewing machine having a frame including a cylindrical bed, stitch-forming mechanism, and a work-feeding mechanism for feeding work across said bed; an arbor supported on a free end of said bed and extending outwardly therefrom at an angle thereto, and means to direct a strip of material to the stitch-forming and work-feeding mechanisms and helically about said arbor, with the opposite marginal portions of the strip in overlapping relationship to cause the machine to sew together the overlapped marginal portions of the strip as the strip is fed helically along said arbor.

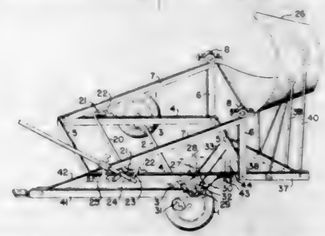
2,529,576
WARNING DEVICE
Charles D. Scanlon, Los Angeles, Calif.
Application April 13, 1949, Serial No. 87,310
6 Claims. (Cl. 88—79)



1. In a reflective warning device, the combination of: a body member formed of a flexible resilient material having a base portion defining a base surface and surmounted by an upper portion, said upper portion and the sides of said base portion defining an exposed surface; a highly reflective coating covering said exposed surface; a protective cap member of transparent material covering said upper portion and the coating thereon; and means securing said cap member to said body member.

2,529,577
SWATH TURNER
Robert Harold Schempp and Edward Hans Schempp, Maidstone, Saskatchewan, Canada
Application June 3, 1948, Serial No. 30,765
2 Claims. (Cl. 56—370)

1. In a machine providing a pickup adapted to take up grain in the swath and a conveyer receiving grain from the pickup and elevating the grain for discharge, with means for driving the pickup and conveyer, a swath turning attachment comprising a sheet metal body mounted to receive grain from the conveyer, the bottom portion of said body extending rearwardly from the conveyer and having one side open for discharge of grain and the other side curved upward and over the bottom portion, the curved portion of



said body inclining rearwardly towards the outlet side of the body.

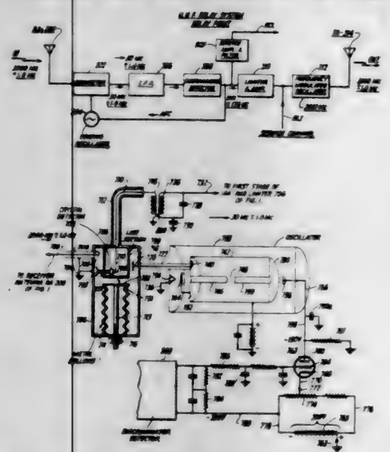
2,529,578
SACHET
Gladys Gale Thompson, St. Louis, Mo.
Application October 25, 1943, Serial No. 507,643
2 Claims. (Cl. 299—24)

1. A sachet of the character described comprising a strip of fabric whose length is many times its width, said strip being folded back upon itself at a position intermediate its ends to provide two plies whose edges lengthwise of the strip are aligned, means securing said plies together along their opposite aligned edges from the position whereat said strip is folded for a substantial distance to form a pocket having a mouth at the terminus of said securing means, and the ends of said strip extending freely beyond said pocket for a distance sufficient to be tied into a knot across the mouth of the pocket to close the same.

2,529,579
FREQUENCY CONTROL OF HIGH-FREQUENCY OSCILLATIONS
Leland E. Thompson, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original applications February 6, 1945, Serial No. 576,453, and March 15, 1946, Serial No. 654,553. Divided and this application January 29, 1948, Serial No. 5,013
4 Claims. (Cl. 250—36)

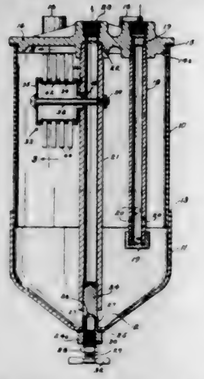
1. A control circuit for an oscillation generator, said oscillation generator comprising a container containing an electron emitting cathode and an anode, a cavity resonator having a gap, means including one or more sources of unidirectional potential for maintaining said resonator at a positive potential with respect to said cathode and said anode at a negative potential with respect to said cathode, said control circuit comprising a vacuum tube having a plate conductively connected to the anode of said oscillator, and having a grid, and a cathode, a circuit including a source of potential of said aforesaid means extending from said last cath-

ode to the cathode of said oscillator so arranged as to maintain a negative voltage on the plate of said vacuum tube with respect to the cathode



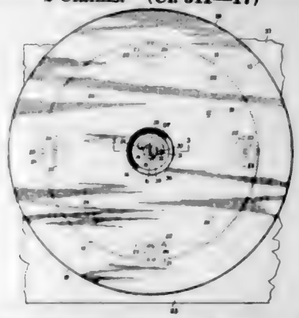
of the oscillation generator, and a circuit for applying controlling voltages to the grid of said vacuum tube to vary the conductivity thereof.

2,529,580
LIQUID STRAINER
George M. Walton, Shaker Heights, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application January 15, 1948, Serial No. 2,492
2 Claims. (Cl. 210—187)



1. A liquid strainer comprising a tubular housing having top and bottom end closing members, one of said members being removable, a tube extending longitudinally through the central portion of said housing, said tube being provided with open communication through one of said end closing members, means clamping said end closing members to said housing whereby to hold said removable member in end closing position, means for introducing a stream of liquid into the lower portion of said housing, a filter element in the upper portion of said housing having discharge communication with the interior of said tube, said filter element communication providing the sole communication between the said tube and said housing, said filter element comprising a foraminous shell having a closed end and having an open end communicating with said tube, a bolt secured to said closed end and passing through said open end and there secured to said tube, and a filter element outside of said shell and having filtrate communication therewith.

2,529,581
ROTARY PACKAGE HOLDER FOR ATTACHMENT TO SHELVES
George D. Wiepert, Branford, Conn., assignor to The Merriam Manufacturing Company, Durham, Conn., a corporation of Connecticut
Application May 27, 1947, Serial No. 750,763
2 Claims. (Cl. 311—17)

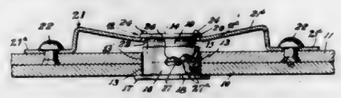


1. A rotary package-holding assembly, including in combination: a plate-like mounting-member having a flat bottom surface arranged to engage on and to be attached to the upper surface of a shelf or the like and having an upwardly-projecting tubular stud, the said tubular stud being provided with a vertical passage extending therethrough from top to bottom and adapted to receive a headed screw or like fastening-member which is extendible downwardly into a shelf to secure the said mounting-member thereto, the head of said screw being of less diameter than the diameter of said stud; a plurality of rollers mounted for rotation about substantially-radial axes upon the said plate-like mounting-member in position to support the hereinafter-mentioned package-holder; a plate-like rotary package-holder located above the said mounting-member and resting upon the said plurality of rollers, the said package-holder having an apertured bearing-portion detachably engageable with and bearing, for rotation, upon the said tubular stud in a plane below the upper end thereof, the aperture in the said bearing-portion being sufficiently large to permit the package-holder to be moved vertically over the upper end of the said stud and the head of said vertical screw; and manually-operable latch-means pivotally mounted on said package-holder and engageable with the upper end of said stud to releasably hold the said rotary package-holder against vertical displacement with respect to the said tubular stud.

2,529,582
FASTENING DEVICE
Victor F. Zahodiakin, Short Hills, N. J.
Original application November 20, 1940, Serial No. 366,397, now Patent No. 2,355,196, dated August 8, 1944. Divided and this application July 10, 1944, Serial No. 544,274
6 Claims. (Cl. 24—221)

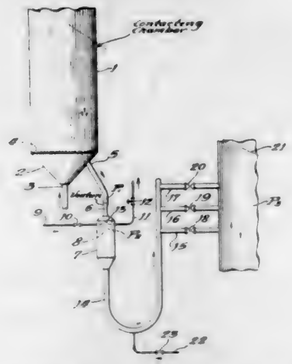
1. A fastening device for juxtaposed members, said device comprising a sectional clamp one

section of which is telescopic within another one of said sections, one of said sections having a spiral slot starting at an overlapping edge to the other section and said other section having a radially projecting lug engageable in said slot whereby rotation of one section with respect to the other feeds the lug into said spiral slot and draws the sections into telescopic contraction, flanges at the outer ends of said sections for ex-



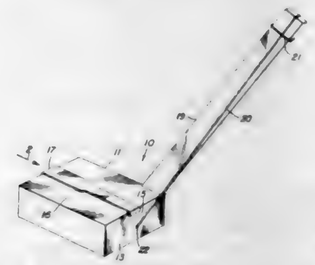
erting clamping pressure on said members as said sections are telescoped, and a resilient yoke interposed between one of said flanges and the next adjacent said member, said yoke having ends projecting laterally from and having a middle part depressible with said one of the flanges, and having non-rotating attachment to the said one of the flanges, and the laterally projecting yoke ends being non-rotatively secured to the said next adjacent member.

2,529,583
CONTROLLING FLOW OF SUBDIVIDED SOLID PARTICLES
George F. Adams, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 6, 1948, Serial No. 63,824
4 Claims. (Cl. 214—17)



2. A method for metering the flow of subdivided solid particles from one confined contacting zone to a second confined contacting zone which comprises, passing said particles from a first contacting zone through a fixed venturi restriction into an enlarged confined receiving zone, introducing an inert fluid medium into said receiving zone and withdrawing said medium therefrom in a manner maintaining a controlled superatmospheric pressure therein, continuously discharging particles from said enlarged receiving zone in continuously moving U-shaped particle column maintaining a hydrostatic pressure seal on said receiving zone, and continuously passing subdivided solid particles from said U-column to said second confined contacting zone at a rate varying with said controlled pressure effected in said receiving zone and the pressure differential between the inlet and outlet ends of the venturi restriction.

2,529,584
MUSICAL INSTRUMENT
Mack C. Alexander, Charlotte, N. C.
Application August 1, 1947, Serial No. 765,315
5 Claims. (Cl. 84—173)



1. A musical instrument, comprising in combination, a hollow housing including an opening forming a mouth-piece, a vibratory reed mounted in said housing, a projecting arm secured to said housing, and a stretched resilient member secured to said reed and to said arm.

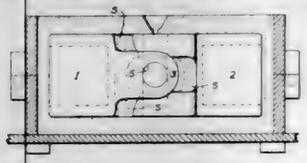
2,529,585
PREVENTION OF MIST ON TRANSPARENT SHEETS AND REFLECTORS
Archibald St. John Austin, Princes Risborough, Reuben Hillel Sapiro, Pinner, and Reginald Percy Fraser, Kingston Hill, England
No Drawing. Application January 9, 1946, Serial No. 640,144. In Great Britain January 10, 1945
9 Claims. (Cl. 154—46.8)

1. As an article of manufacture, a multiple-layer composite flexible sheet material for adhesively applying a thin flexible transparent anti-misting sheet to transparent glass and glass substitutes and to mirrors and reflectors, said multiple-layer material comprising a thin flexible transparent sheet of water-absorbent cellulosic material, a flexible layer of dry transparent adhesive activated by water and carried by one surface of said cellulosic sheet, a second flexible layer of dry adhesive carried by the other surface of said cellulosic sheet, and a flexible sheet of protective or backing material adhesively carried by said second layer, the adherent qualities of the said two layers of adhesive being so graded that when the article as a whole is wetted and promptly applied to the said glass or reflector by smoothing out thereon with the first mentioned adhesive layer in contact therewith the protective sheet can be removed by stripping without detriment to the physical character of the water absorbent cellulosic sheet in its attachment to said glass or reflector whereby the lat- is rendered anti-misting.

2,529,586
METHOD OF CASTING UNIVERSAL JOINTS
Jesse Barber, Spokane, Wash.
Application April 3, 1945, Serial No. 586,368
3 Claims. (Cl. 22—203)

1. The method of casting an articular frame including a hub and four radial trunnions, which consists in assembling a pair of universal joint members each having a pair of lobes fashioned with apertures in sand mold sections that cover all surfaces of the members except the surfaces defining said apertures and thereby forming a

sectional matrix for the hub in communication with the apertures in the lobes, pouring molten



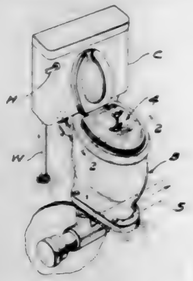
metal into said matrix and apertures, and cooling the molten metal.

2,529,587

TOILET SEAL FOR AUGMENTING THE FLUSHING CAPACITY OF TOILET TANKS IN UNSTOPPING SEWERS

Harry U. Bates and John T. Perkins, Los Angeles, Calif.; said Bates assignor to Jess E. Teel, Los Angeles, Calif.

Application November 12, 1947, Serial No. 785,454
1 Claim. (Cl. 4—257)



In a removable closure for sealing the top opening of a water flushed closet bowl to provide an air tight chamber for pressure flushing of the discharge from the bowl, said bowl having means at the edge of its top opening adapted for engagement with a clamping member, a rigid plate shaped to fit on the top of the bowl and to completely cover the top opening thereof, resilient sealing means on the underside of said plate, said plate and sealing means having aligned openings therethrough, a threaded stem extended through said openings so that said sealing means resiliently presses against the stem and seals the opening in the plate about the stem, a clamping bar fixed to the lower end of said stem operative to engage and disengage the clamp engaging means of the bowl, a nut threaded on the stem so as to bear against the plate for releasably holding the bar in closure clamping position for clamping the plate on and releasing the plate from the bowl, the clamping position compressing part of the resilient means between the margin of the plate and the top edge of the bowl, and a winged member fixed on the upper part of the stem operative for turning the stem and clamping bar to clamping and releasing positions, to hold the stem during tightening of the nut, and to indicate the position of the clamping bar under the plate.

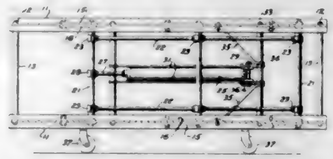
2,529,588

CAR SQUEEZE

Ernest S. Beckett, Penryn, Calif.

Application February 16, 1948, Serial No. 8,651
3 Claims. (Cl. 105—369)

1. A car squeeze comprising a pair of spaced frames a plurality of like toggle links connecting said frames to retain them in parallel relationship, means connecting all of said toggle links to compel them to extend and collapse in unison, an extending end on one part of at least



one toggle link and jack means engaging between one of said frames and said extending end to extend the toggle links and spread the frames by force.

2,529,589

MOUSETRAP

Arthur Biery, Pine Island, Minn.

Application November 28, 1949, Serial No. 129,852
4 Claims. (Cl. 43—61)

1. An animal trap comprising a base having a pair of upstanding side walls, an elongated upper wall having a forward portion pivoted to said side walls and a rear portion movable toward and away from the base, a closure pivoted to the side walls adjacent and beneath the forward portion of said upper wall, means yieldingly urging the closure to a closed position against the base, and tripping means between the closure and the upper wall for retaining the closure open and the rear portion of the upper wall spaced from the base until the upper wall is raised by an animal contacting the same.

2,529,590

PREPARATION OF A HYDROCARBON DRYING OIL

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 29, 1946, Serial No. 713,076
5 Claims. (Cl. 196—78)

2. A process for the production of a hydrocarbon material having drying properties which comprises contacting at a temperature below about 200° C. an aluminum halide of a middle halogen with an olefinic hydrocarbon and a molar excess of a hydrogen halide of a middle halogen, said molar excess being based upon the quantity of aluminum halide utilized, continuing the reaction until a molar equivalent of the hydrogen halide relative to the amount of aluminum halide has combined with the latter and with said hydrocarbon, separating from an upper, substantially saturated, hydrocarbon layer a lower layer comprising an aluminum halide-hydrogen halide-hydrocarbon complex addition product, subjecting said lower layer to hydrolysis to liberate the hydrocarbons from the complex addition product, and recovering the thus liberated hydrocarbons.

2,529,591

PREPARATION OF SYNTHETIC RESINS FROM A DICHLOROALKANE AND A HYDROCARBON FRACTION CONTAINING CHLORO-AROMATIC HYDROCARBONS

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 21, 1946, Serial No. 717,801
5 Claims. (Cl. 260—2)

1. A process for preparing a resin which comprises reacting a dichloroalkane having from two to five carbon atoms per molecule and a fraction containing paraffins, cycloparaffins, a chloro-aromatic hydrocarbon and an alkyl aromatic hydrocarbon having at least two replaceable nuclear hydrogen atoms at a temperature of from about 60° to about 100° C. in the presence of a Friedel-Crafts metal halide catalyst, continuing the reaction for a time period of from about 0.75 to about 24 hours, preventing precipitation of the resultant resinous product by maintaining a mole excess of dichloroalkane during the reaction such that upon completion of the reaction the mole ratio of unreacted dichloroalkane to the sum of said paraffins and cycloparaffins is at least 2:1, and recovering the dissolved resinous product from the final reaction mixture.

2,529,592

AIR CIRCULATING APPARATUS

John R. Boyle, Chicago, Ill., assignor to Westerlin & Campbell Company, Chicago, Ill., a corporation of Illinois

Original application November 26, 1941, Serial No. 420,460. Divided and this application July 21, 1945, Serial No. 606,434
7 Claims. (Cl. 257—2)

1. In air circulating apparatus, the combination of an air supply duct for supplying air under pressure, a grille or discharge opening extending substantially longitudinally of said supply duct through which air is discharged into the room or other enclosure, a movable wall extending substantially longitudinally of said duct for controlling the volume of air flowing from said duct to said discharge opening, means coacting with said movable wall for causing it to be responsive to the static pressure in said duct, a thermal exchange conduit in said duct, temperature responsive means regulating the effective area of impingement of the air against said thermal exchange conduit prior to the issuance of the air through said discharge opening, a balanced damper valve controlling the volume of air flowing from said duct to said discharge opening, temperature responsive means for actuating said damper valve, and manually actuated adjusting means for adjusting the position of said damper valve.

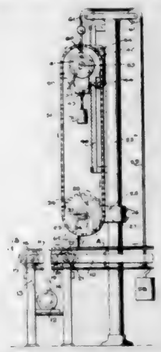
2,529,593

LENGTH-MARKING APPARATUS

James C. Carlin, Norristown, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a corporation of New York

Application July 9, 1946, Serial No. 682,247
2 Claims. (Cl. 91—12)

1. Length-marking apparatus for impressing upon a moving web of material a series of marks respectively designating points of severance of the web into strips of predeterminedly fixed uniform length comprising a conveyor for the moving web of material; and a web-marking mechanism comprising a vertical post disposed at the side of said conveyor, a pair of vertically spaced parallel transversely disposed shafts disposed over the conveyor, a bracket assembly for the lower of said shafts slidably carried by said post and having means for fixing the bracket and shaft in any desired vertical position on said post, a rack mounted on the post, a second as-



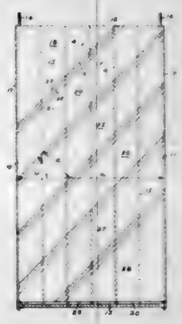
sembly having a pinion engaging said rack for movably supporting the upper of said shafts on the rack, each shaft having a sprocket wheel mounted thereon near its free end and over the conveyor, said wheels being disposed in a vertical plane, an endless sprocket chain carried by said wheels, an outwardly directed marker carried by said chain, an inker for said marker carried by said upper shaft spaced from the wheel for inking the marker as it passes between the inker and the wheel, and single drive means for the conveyor and sprocket chain.

2,529,594

COLLECTING ELECTRODE STRUCTURE FOR ELECTRICAL PRECIPITATORS

Ralph L. Chamberlin, Middlesex, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application December 22, 1947, Serial No. 793,301
1 Claim. (Cl. 183—7)



In an electrical precipitator including gas inlet and outlet means for establishing a horizontal flow of gas therethrough, a collecting electrode structure comprising a substantially rectangular frame substantially vertically dis-

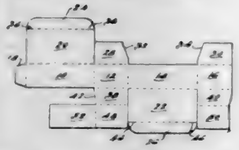
posed in the gas stream and parallel to the direction of gas flow, a plurality of plate members mounted on each face of said frame in substantially parallel relation to provide extended surfaces on each face of said frame substantially continuous between edges of said frame, said plate members defining a hollow space therebetween, adjacent plates on each face of said frame having substantially parallel edges obliquely disposed with respect to said frame, the upper edge of a subjacent plate overlapping the lower edge of a superjacent plate and the overlapping portions of adjacent plates being spaced apart to provide slots obliquely facing the stream of gas flowing through the precipitator, said slots opening into said hollow space, vertical baffle plates on opposite edges of said frame extending transversely to the direction of gas flow through the precipitator and substantially beyond the extended surfaces of the electrode structure, and a plurality of horizontally spaced vertical frame members confined within said hollow space and extending between opposed interior surfaces of said plate members to divide said space into a plurality of vertical dust conduits.

2,529,595

SHIPPING AND DISPLAY BOX

Richard J. Cody, Evanston, Ill., assignor to Federal-Mogul Corporation, Detroit, Mich., a corporation of Michigan

Application January 28, 1948, Serial No. 4,813
1 Claim. (Cl. 229—28)



A shipping storage and display carton comprising a box having vertical side and end walls arranged generally in the form of a rectangle and a bottom integrally connected along a fold line to the bottom edge of one of said side walls; bottom panels integrally connected along fold lines to the bottom edges of said end walls, said panels extending across and lying flatly against said bottom, each to a point approximately one fourth the distance from its respective end of the box; vertical transverse partition panels integrally connected along fold lines to the inner transverse edges of said bottom panels, said partition panels extending substantially the full depth of the box; and a vertical diagonal partition connected along a fold line to a vertical edge of one of said transverse partition panels, said diagonal partition extending the full depth of the carton and from the edge of the partition panel to which it is attached to the diagonal, opposite edge of the other partition panel.

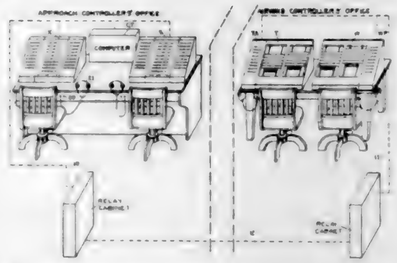
2,529,596

AIRPLANE APPROACH CONTROL SYSTEM

Nelson B. Coley, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application June 24, 1948, Serial No. 34,961
12 Claims. (Cl. 177—353)

1. An approach control system for governing airplane approaches to an airport at respective flight altitudes wherein supervision of flights of airplanes is transferred from an airways controlled at one station to an approach controller at a remote station as respective airplanes approach the airport comprising in combination, control boards in the respective stations, each of said control boards having manually operable means and an indicator lamp for each flight altitude disposed thereon at positions on the board comparable to the respective flight altitudes, two line circuits connecting the two stations for each flight altitude, a relay at each station for each flight altitude, circuit means including one of said line circuits for normally energizing said relay at said one station from said remote station, circuit means including the other of said line circuits for normally energizing said relay at said remote station from said one station, circuit means at each of the stations effective in response to actuation of said manually operable means for a selected flight altitude for deenergizing said line circuit that is normally energized at that station for that flight altitude, and means for energizing said indicator for a selected flight altitude in response to the designation of that flight altitude by the actuation of said manually operable means at that station for that altitude only provided that energy is fed through one of said line circuits for that flight altitude from the other station.



8. An approach control system for airplanes in approach to a runway comprising in combination; a plurality of marker beacons spaced from each other in longitudinal alignment with the runway at one end thereof marking the limits of each of two adjoining holding stacks, one of said beacons being common to both stacks; a control board having a clearance button, a clearance indicator, an occupancy indicator, and occupancy designation means disposed thereon for each stack for a particular flight altitude; clearance indication control means responsive to the actuation of said clearance button for either of said stacks for energizing said clearance indicator for that stack only provided that said clearance button for the adjoining stack for that flight altitude has not been actuated; and occupancy indication control means responsive to the designation of occupancy at said particular flight altitude in either of said adjoining stacks for energizing said occupancy indicator for both adjoining stacks.

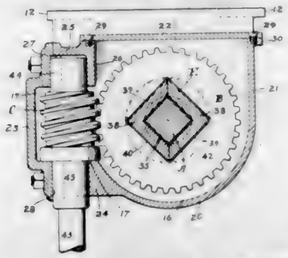
2,529,597

WINDING MECHANISM FOR DECK HOISTS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application April 12, 1947, Serial No. 741,034
5 Claims. (Cl. 74—425)

1. In a chain winding mechanism, the combination with a worm wheel; of a rotary worm meshing with said worm wheel, said worm wheel having an axial opening therethrough of angular cross section; a housing enclosing said worm wheel and worm; a lengthwise divided, two-part bearing sleeve having its opposite ends journaled in the housing, said sleeve having a portion of angular cross section slidingly telescoped in the angular opening of said worm wheel, said sleeve



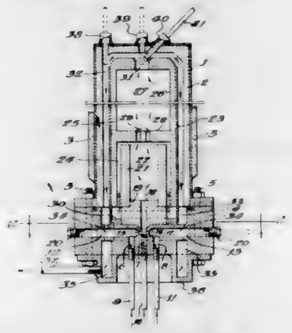
having an angular bore; and a cylindrical winding shaft having a reduced portion of angular cross section between its ends slidingly telescoped within the angular bore of said sleeve.

2,529,598

REACTOR FOR HIGH-TEMPERATURE CRACKING

Richard M. Deanesly, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application August 30, 1949, Serial No. 113,229
6 Claims. (Cl. 23—284)



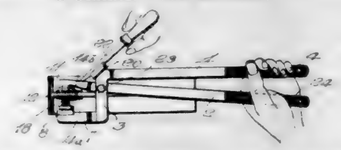
1. A reactor for effecting the mixing and contacting of fluid reactant streams which comprises in combination, an inlet section having a plurality of fluid inlet ports thereto with at least two of said ports converging and opposing one another at a mixing throat, said throat connecting with and discharging axially into an open-ended inner tubular member forming an inner reaction section, an intermediate tubular member circumscribing and spaced from said inner member providing an inner annular fluid passageway and an orifice communicating with the outlet end of said inner reaction section, an inlet port through said inlet section communicating with said inner annular passageway, a portion of said intermediate tubular member extending beyond the first said reaction section and forming a second open-ended reaction section contiguous with the first, a confined outer tubular member spaced from said intermediate member and providing an outer annular passageway communicative with the outlet end of said second reaction section, and fluid outlet means from said outer annular passageway at said inlet section, whereby a resulting product stream passes through last said passageway in heat exchange relationship with said intermediate tubular member.

2,529,599

BRAKE PIN TOOL

Wade W. Dick, Shreveport, La.

Application June 16, 1949, Serial No. 99,384
2 Claims. (Cl. 29—227)



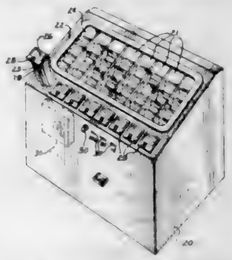
1. A hand tool comprising a pair of tool operating members, one of said members having a substantially right angular bend portion therein and terminating in a linear extension substantially normal to the right angular bend, said right angular bend portion being slotted centrally thereof for the passage of the other of said tool members, said last mentioned tool member being pivoted within the slotted portion of said right angular bend portion at a position adjacent said first mentioned tool member, a yoke terminating in operating projections carried by said second mentioned tool member, a socket recessed portion aligned centrally with said yoke and carried by the linear extension of said first mentioned tool member, and a fulcrum lug carried by said first mentioned tool member at the junction of the right angular bend portion thereof with the tool member and inclined in the direction of the yoke in said second mentioned tool member, said fulcrum lug having a longitudinally extending socket recess therein for guiding a pry tool in a direction through the yoke of said second mentioned tool member.

2,529,600

ARTICLE DELIVERY MECHANISM

Charles H. Dixon, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan

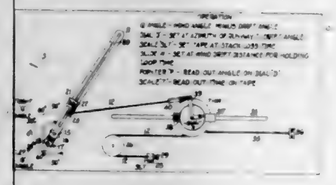
Application October 21, 1947, Serial No. 781,159
9 Claims. (Cl. 312—67)



1. In a vending machine having a housing which encloses a plurality of inclined chutes for storing articles to be vended and feeding the same by gravity to the lower ends of said chutes, the combination comprising dispensing receptacles at the lower ends of said chutes for receiving the lower of the articles in said chutes and movable from an initial locked position to an elevated delivery position, such movement being in a plane substantially normal to the paths of the articles in said chutes, a supporting partition in

said housing for said dispensing receptacles, latching means including coacting members carried respectively by said partition and by each of said dispensing receptacles, the members of said means being adapted to coact in response to the absence of an article in a selected one of said dispensing receptacles to prevent elevation of the same, and a second latching means also including coacting members carried respectively by said partition and by each of said dispensing receptacles, the members of said second means being adapted to coact in response to the presence of an article in said one of said dispensing receptacles to preclude the return of the same to the initial locked position.

2,529,601
FLIGHT CALCULATOR FOR AIRPLANES
John E. Freehafer, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application November 12, 1947, Serial No. 785,422
16 Claims. (Cl. 235—61)

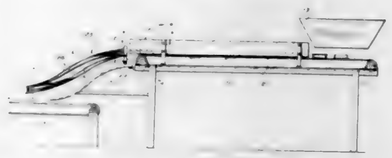


2. In a computer for landing maneuvers of a predetermined duration and including a holding loop having a procedure turn of specified time radius, said holding loop being of a length dependent upon the length of time consumed in a holding stack following the initiation of the landing maneuver before the holding loop is started, means including a wheel of a radius proportional to the radius of said procedure turn, a flexible member located about the circumference of said wheel and held in position to simulate said holding loop, the length of said flexible member being proportional to a predetermined time, means for shortening said flexible member to an extent proportional to the time said airplane loses in said holding stack between the initiation of a landing maneuver and the time it passes a specified point at which it starts said holding loop, and means for indicating the time an airplane must fly following the passage of said point until it reaches a point of tangency on said procedure turn by indicating the length of said flexible member between a point simulating said point and the point of tangency between said flexible member on said wheel since the flexible member has its length selected in accordance with said stack loss time.

2,529,602
ION EXCHANGE MATERIAL AND METHOD OF MAKING THE SAME
Stanley H. Frohmader, Madison, Wis., assignor to Research Products Corporation, Madison, Wis., a corporation of Wisconsin
No Drawing. Application September 2, 1948, Serial No. 47,540
9 Claims. (Cl. 252—193)

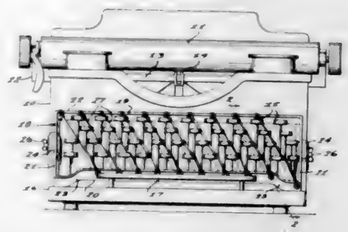
1. An ion exchange material comprising the water insoluble resinous reaction product of formaldehyde and naphthalene sulfonic acid of which acid at least 75% is in the alpha form.

2,529,603
CAN SELECTOR
Ellis C. Galt, Pacific Grove, Calif.
Application September 10, 1945, Serial No. 615,305
1 Claim. (Cl. 198—33)



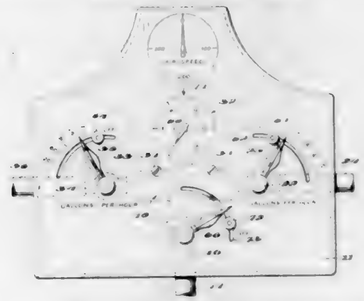
An apparatus for orienting a group of cans each of which has adjacent one end a peripheral laterally extending bead comprising a table, a conveyor mounted on said table, means for delivering cans to said conveyor adjacent one end of said table, side members carried by said table above said conveyor, wiper plates carried by said side members for leveling said cans, bars secured to said side members and converging towards the other end of said table for guiding said cans into a single file, a selector box secured between said side members spaced above said conveyor and in advance of the converging ends of said bars, said box having open ends, a longitudinal slot in the base of said box of sufficient width to allow passage of a can, guide blades secured to the upper surface of the base of said box extending partially into said slot at the opposite longitudinal sides thereof adapted to engage the bead of a can, and chute means in advance of said box for receiving and inverting a can delivered from said guide blades.

2,529,604
ANTIJAMMING ATTACHMENT FOR TYPEWRITERS
William A. Gooch, Istrouma, La.
Application June 15, 1948, Serial No. 33,170
2 Claims. (Cl. 197—101)



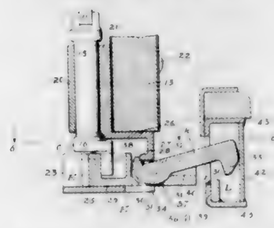
2. An anti-jamming attachment for a typewriter comprising a generally rectangular frame having end members and side members, means on said end members for releasably securing said attachment in operative position on a typewriter, and a plurality of separator bars extending between said side members and secured at their ends to said frame side members, said separator bars being inclined relative to said frame side members and positioned one between each two adjacent rows of typewriter keys extending between the top and bottom of a typewriter keyboard and immediately below the key tabs when said attachment is secured in operative position on a typewriter.

2,529,605
LIQUID REGULATING ASSEMBLY IN A SPRAY NOZZLE SYSTEM
August W. Gustafson, Corpus Christi, Tex.
Application March 8, 1948, Serial No. 13,722
3 Claims. (Cl. 299—58)



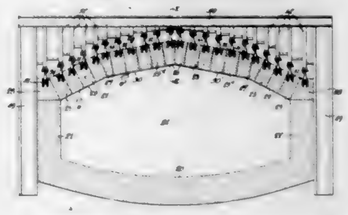
1. Liquid control means for an insecticide distributor nozzle comprising, an instrument panel, means providing a chamber mounted in back of said instrument panel, a pressure gauge in association with said chamber mounted with a dial thereof visible from the front of said instrument panel, conduit means for supplying liquid under pressure into said chamber, a valve in said conduit means, a lever at the front of said instrument panel actuating said valve, movable stop means carried by the instrument panel for arresting movement of said lever to a closed position of said valve, conduit means extending from said chamber to a distributor nozzle, a valve in the last-mentioned conduit means, a lever actuating the second valve arranged in front of said instrument panel, and means for arresting the movement of the second lever to a closed position of the second valve, and means associated with said gauge indicating a normal pressure within said chamber.

2,529,606
DETACHABLE LATCH ARM FOR DOOR FASTENERS
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application June 18, 1947, Serial No. 755,416
3 Claims. (Cl. 292—192)



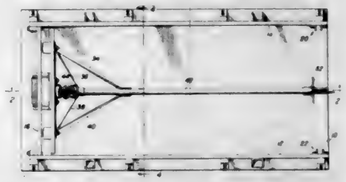
1. In a fastener for a hinged door of a container, the combination with a vertically disposed, rotary operating bar mounted on the door; of a guide stirrup depending from said door; a slide having reciprocating movement in said stirrup; a latch element pivotally connected between its ends to said slide, said element having a tail portion at its inner or front end and a hook member at its outer or rear end engageable with the container to detachably lock the slide to the container; means on said bar for reciprocating said slide by rotation of the bar; and a stop on said guide stirrup in the path of movement of the tail portion of said latch element for tripping said element to lift the hook member thereof out of locking engagement with the container.

2,529,607
SUSPENDED FURNACE ROOF
Russell Pearce Heuer, Villa Nova, Pa., assignor to General Refractories Company, a corporation of Pennsylvania
Application July 3, 1944, Serial No. 543,240
7 Claims. (Cl. 110—99)



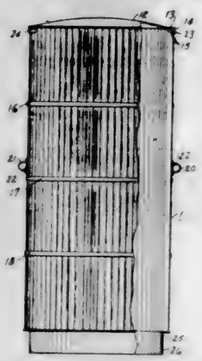
1. A refractory brick for suspended furnace roofs having a recess from one lateral face of the brick located wholly at one corner of the brick, at the intended upper end, the recess lying wholly on one side of the longitudinal axis of the brick when viewed from the lateral face having the recess, and the longitudinal axis of the recess being wholly on that side of the longitudinal axis of the brick when viewed from that lateral face, the recess being above the center of gravity of the brick at the intended angle of suspension of the brick, and a comolded metallic socket supported within the recess, the socket being nonsymmetrical with respect to the longitudinal axis of the brick.

2,529,608
UNLOADING ENDGATE FOR TRUCKS
Victor C. Hueneman, Garner, Iowa
Application March 30, 1948, Serial No. 17,971
5 Claims. (Cl. 214—82)



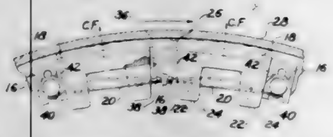
1. An attachment for a wagon having a bottom, sides and a back comprising a baffle, a bracket secured to the rear of said baffle having a roller journaled thereon, said roller rollingly supported on the wagon bottom, and means secured to said bottom and said baffle for slidingly actuating said baffle over said bottom, said means including a flexible member secured to the bottom of the wagon, a pulley mounted on said baffle having said flexible member entrained therearound, said roller being spaced farther from said baffle than said pulley to prevent contact of the pulley with said back, and means secured to said baffle forming a longitudinal passage with said flexible element disposed therein for shielding said flexible element, vertical rails secured to said sides, and a vertically movable endgate slidably disposed in said rails.

2,529,609
CIRCULAR ANNEALING INNER COVER
Morris L. Jacob, Pittsburgh, Pa., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 22, 1949, Serial No. 134,447
5 Claims. (Cl. 263—49)



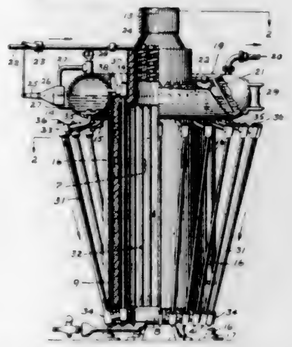
1. A circular annealing inner cover consisting of a plurality of corrugated steel plates each arcuately curved transversely of the corrugations to a uniform radius of curvature selected and integrally connected to form a complete symmetrical cylinder of predetermined diameter, the crests and troughs of the corrugations being substantially circular and merge tangentially into one another, the adjacent plate edges matching to form a continuous series of uniform corrugations circumferentially of the inner cover, the spacing between crests and the depth of said corrugations selected to provide a surface area twice the wall area of a smooth cylinder having a diameter substantially equal to the smaller inside diameter of the corrugated cylinder, an upwardly dished roof having an integral annular flange, the width of which flange is equal to the depth of the corrugations which are continuously secured to said flange to provide a gas tight top, a plurality of spaced continuous hoops encircling and supported on the cylindrical wall to brace the same, and an annular reinforcing ring the width of which is equal to the depth of the corrugations continuously secured to the lower ends of the corrugations.

2,529,610
CENTRIFUGAL CLUTCH
Harry T. Jensen, Milford, and Fritz E. Hiller, Stratford, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application January 15, 1946, Serial No. 641,397
3 Claims. (Cl. 192—105)



1. In a centrifugal clutch, a driving member, a driven member, a centrifugally operated shoe rotated by said driving member for transmitting torque by friction to said driven member, a leaf spring supported by a pair of abutments on said shoe in a position transverse to a radius of said clutch with said abutments bearing at spaced points on a face of said spring intermediate the ends of the latter and in a direction to move said spring with said shoe toward the periphery of the clutch, and means for providing a virtually straightline deflection curve for said spring including a second pair of abutments carried by said driving member engaging said spring on the opposite face thereof from said first-mentioned abutments and opposing the aforesaid movement of said spring by said shoe, each of said second pair of abutments being located nearer the end of said spring than the corresponding abutment of said first pair and also having a line bearing on said spring transverse to the length of the latter spaced inwardly from the adjacent end thereof and having a support on said driving member which remains a fixed distance laterally from the adjacent abutment on said shoe throughout the entire flexing movement of said spring.

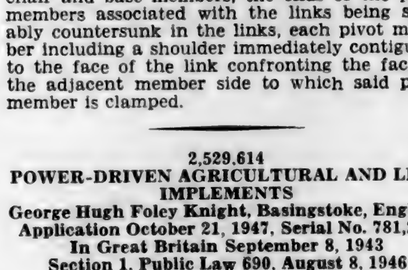
2,529,611
WATER-TUBE BOILER
Floyd L. Kallam, Pasadena, Calif.
Application October 22, 1945, Serial No. 623,722
14 Claims. (Cl. 122—333)



1. In a water-tube boiler, an upright tubular shell stepped inwardly near its top and defining a heat-exchanging chamber arranged for the upward flow of a heated fluid therethrough, a boiler head encircling the shell at approximately the shell step level and providing the steam chamber of the boiler, downcomer tubes extending downwardly from the bottom of the boiler head externally of the shell, upcomer tubes connecting the bottoms of the downcomer tubes with the steam chamber and arranged in a circle coaxial with the axis of the heat-exchanging chamber and adjacent the inside wall surface of the shell, a support ring encircling the larger shell portion at an upper level thereof and engaging the shell and boiler head for the support thereof therefrom, and support legs extending from the ring to a level below that of the bottom of the boiler assembly.

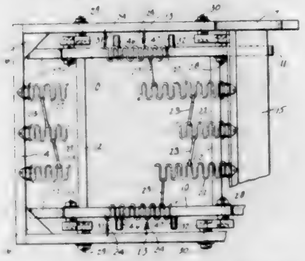
2,529,612
MOWER ATTACHMENT FOR MOTOR VEHICLES
Allan J. Kayser, Denver, Colo.
Application February 4, 1948, Serial No. 6,257
1 Claim. (Cl. 56—25)

Means for supporting a mower bar attachment from a vehicle having a chassis and a body projecting sidewardly beyond said chassis, comprising: a brace plate secured to one side of said chassis and projecting sidewardly beneath and beyond said body; a hooked bar secured to and extending upwardly from said brace plate, thence



inwardly over a portion of said body to support the outer extremity of said brace plate; and means for suspending said mower bar attachment from said brace plate.

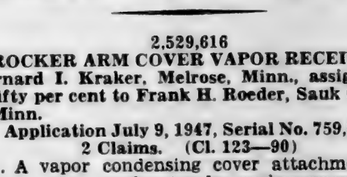
2,529,613
ROCKER SUSPENSION
Walter B. Kirkwood, Tipton, and Wayne R. Stevens, Atlanta, Ind., assignors to Tipton Furniture Company, Inc., Tipton, Ind.
Application May 8, 1946, Serial No. 668,072
3 Claims. (Cl. 155—61)



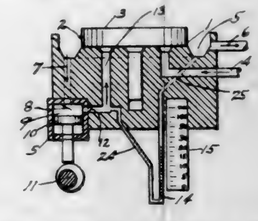
3. In a rocker having a chair member and a base member, each having spaced parallel sides, adjacent sides of said members being disposed in close proximity to each other, the combination therewith of a pair of substantially equal length links disposed between each pair of such sides and of a thickness approximately half the distance therebetween, and oppositely directed pivot members carried by each link and near the ends thereof and clamped to the adjacent chair and base members, the ends of the pivot members associated with the links being suitably countersunk in the links, each pivot member including a shoulder immediately contiguous to the face of the link confronting the face of the adjacent member side to which said pivot member is clamped.

2,529,614
POWER-DRIVEN AGRICULTURAL AND LIKE IMPLEMENTS
George Hugh Foley Knight, Basingstoke, England
Application October 21, 1947, Serial No. 781,221
In Great Britain September 8, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires September 8, 1963
3 Claims. (Cl. 180—1)

1. An automotive agricultural land vehicle comprising an elongated upper horizontal frame, a lower horizontal frame beneath and shorter than the upper frame, said lower frame being disposed between the ends of the upper frame, struts rigidly connecting said frames together, a land supporting wheel mounted on one end of the upper frame, means for attaching an agricultural tool to the other end of the upper frame, a propulsion wheel substantially smaller than said land supporting wheel rotatably mounted on the lower frame, said propulsion wheel having on its periphery ground gripping means, a motor of substantial weight secured to the upper frame directly above the propulsion wheel so that substantially all its weight is effective to urge said propulsion wheel against the ground, and a train of gears connecting said motor to said propulsion wheel.



2,529,615
APPARATUS FOR CONTINUOUSLY AND INSTANTLY MEASURING EFFICIENCY
Joseph M. Krafft, Alexandria, Va.
Application June 5, 1947, Serial No. 752,855
6 Claims. (Cl. 73—114)

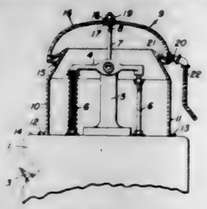


1. An apparatus for producing a pressure differential as a function of the ratio of the rates of viscous flow of two fluids of the same viscosity comprising a flow restricting valve interposed in each fluid path with relatively movable and fixed parts, linkage connecting corresponding parts of both valves so as to maintain equal clearance between the restricting surfaces of said parts, a constant load tending to simultaneously close both valves, the reaction to said load being the sum of the pressure differentials incurred in the flows through the valves times their respective effective movable surface areas, connections adjacent to said restricting surfaces for measuring the pressure differential across one of said valves.

2,529,616
ROCKER ARM COVER VAPOR RECEIVER
Bernard I. Kraker, Melrose, Minn., assignor of fifty per cent to Frank H. Roeder, Sauk Centre, Minn.
Application July 9, 1947, Serial No. 759,821
2 Claims. (Cl. 123—90)

1. A vapor condensing cover attachment for encasing the overhead valve rocker assembly of internal combustion engines comprising a hood having a continuous wall, a peripheral inward depression in said wall adjacent the top of said wall, whereby a minimum of splashed oil will

be collected, said depression consisting of an inwardly and upwardly extending element constituting a condensate collecting channel and a



drain passage from the lowermost portion of channel, through said wall and discharging exteriorly of said hood and engine.

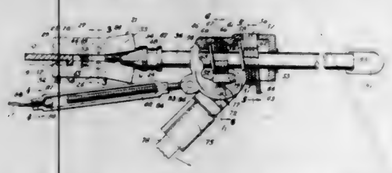
2,529,617

CABLE PULLING AND TIGHTENING DEVICE

Charles A. Kunkel, New Richmond, Ohio

Application March 27, 1948, Serial No. 17,427

1 Claim. (Cl. 29—267)



A brake cable pulling device which comprises a compression rod, a jack housing mounted on and slidable along the rod, means for locking the jack housing to the rod against movement in one direction, means including a handle for advancing the jack housing along the rod in the opposite direction, means on the jack housing for securing a brake cable thereto, means at the end of the rod from which the jack housing is advanceable for securing the rod to a brake drum comprising a screw threaded in an axial bore in said end of the rod, a transverse bar attached to said screw remote from said rod, a pair of jaw members mounted on said transverse bar, at least one of said jaw members being pivotally mounted on said transverse bar, each of said jaw members having a portion on one side of the transverse bar engageable with said end of the rod and a gripping face disposed on the other side of the transverse bar, said rod being rotatable in said jack housing to drive said end of the rod against the jaw members to urge the gripping faces thereof together.

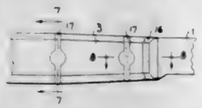
2,529,618

KNIFE HANDLE CONSTRUCTION

Robert J. Slavsky and John R. Slavsky, Detroit, Mich., assignors to Shaw and Slavsky, Inc., Detroit, Mich., a corporation of Michigan

Application June 30, 1948, Serial No. 36,203

7 Claims. (Cl. 30—344)



1. In a knife, a handle body comprised of one piece and having a longitudinal slot cut from one end and from edge to edge thereof, said body having also a peripheral groove crossing the edges of said slot, a tang in said slot, a separate rivet passed through said body and tang, said groove communicating with the ends of said rivet, and cast metal filling said groove and covering said rivet.

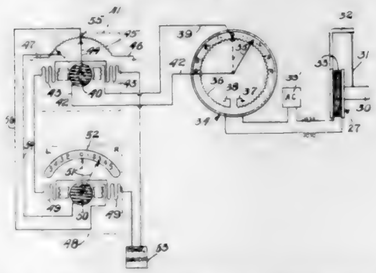
2,529,619

AERIAL NAVIGATION SYSTEM

George A. Maney, Skokie, Ill.

Application September 4, 1944, Serial No. 552,620

2 Claims. (Cl. 264—1)



1. In a navigation system for a moving vehicle, means for indicating departure from a predetermined reference point comprising a support structure mounted for movement in three planes at right angles to each other, gyroscopic mechanism mounted on said structure for maintaining it oriented in a fixed direction, thereby to establish a reference line irrespective of direction of movement of the vehicle, means for registering acceleration and deceleration in a direction fixed with respect to said reference line, a pair of watt hour meters each having a voltage coil and a current coil, said current coils being connected to a source of constant current, means for applying an electromotive force across the voltage coil of one of said watt hour meters proportional to the accelerating or decelerating forces, means for applying an electromotive force across the voltage coil of the other watt hour meter proportional to the extent of movement of the movable element of the first watt hour meter, whereby the movement of the movable element of said second watt hour meter is an indication of the component of departure of the vehicle from the reference point as measured along an axis parallel to said fixed direction of movement.

2,529,620

HUSKING AND CLEANING MACHINE

Carl H. Marnach and Norman G. Schatz, Newberg, Oreg.

Application May 19, 1948, Serial No. 27,908

2 Claims. (Cl. 130—30)

1. A nut husking and cleaning machine comprising a first frame, an endless flexible conveyor screen supported in said frame, a series of spaced idler rollers mounted in said frame and

engaging the lower side of the upper conveyor run between the ends thereof, a loosely suspended apron secured to said frame above and in engagement with the upper conveyor run, a second frame movable longitudinally of said first frame and simultaneously movable toward and away from said apron, a series of resilient fingers mounted on said second frame above and in engagement with the apron for depressing the apron against the conveyor, operable means for moving the second frame lengthwise of the first frame in either direction and simultaneously at right angles to the frame and apron, said operable means being links and also comprising means holding the second frame in a predetermined position relative to the first means.

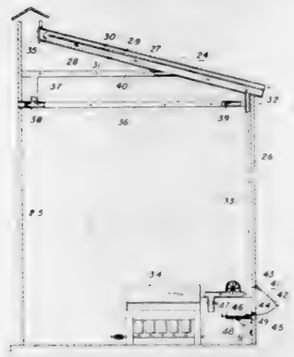
2,529,621

DRYING HOUSE

Reubin E. Mayo, Maury, N. C.

Application May 31, 1946, Serial No. 673,591

16 Claims. (Cl. 263—1)



6. An apparatus of the character described, comprising an open type fuel burning unit, a conduit for conducting air to said unit where it may mix with the products of combustion and pass upwardly through material in a drying house, a roof comprising top and bottom heat conducting portions spaced apart with a partition therebetween to provide upper and lower passageways, said conduit communicating with the lower ends of said passageways, damper means in the roof for controlling the flow of air from either or both of said passageways into said conduit, and other damper means for controlling the introduction of air from the atmosphere into the upper ends of the passageways or from the house into said passageways.

2,529,622

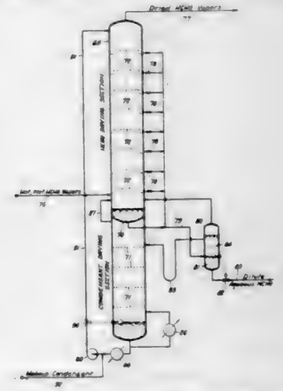
FORMALDEHYDE PURIFICATION AND POLYMERIZATION WITH SELECTIVE CONDENSATION OF WATER VAPOR

Vesta F. Michael, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application May 22, 1947, Serial No. 749,860

15 Claims. (Cl. 260—340)

1. A process for purifying and concentrating formaldehyde which comprises contacting a vaporous stream containing formaldehyde and water with an inert, water-immiscible liquid at a temperature below the dew point of said vaporous



stream, and withdrawing a vaporous effluent containing a diminished concentration of water.

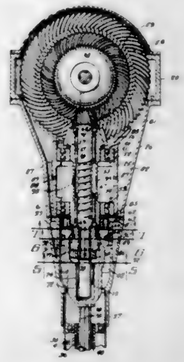
2,529,623

TWO-SPEED REAR AXLE TRANSMISSION

Victor E. Murray, Cincinnati, Ohio, assignor of sixty per cent to Charles H. Reedy, Cincinnati, Ohio

Application December 30, 1947, Serial No. 794,468

7 Claims. (Cl. 74—700)



1. In a two-speed rear axle transmission for a motor vehicle, the combination with a conventionally housed rear axle assembly having two ring gears, and a vehicle drive shaft within a torque tube, of a clutch casing fixedly connected to the rear end of said torque tube, a cup shaped clutch member mounted for rotation with the drive shaft and for limited reciprocation axially thereof in said casing, an elongated cylindrical housing adapted at its rear end for detachable connection with the open rear end of the said clutch casing, two angle contact bearings in opposed relation, mounted on the inside wall at the forward and rear ends respectively of the cylindrical housing, a tube shaft supported on said bearings and transmitting thrust in both directions thereto, a large bevel pinion on the rear end of said tube shaft meshing with one of the ring gears, the bevel pinion and relatively opposite end of its shaft being counterbored to provide anti-friction races therein, a solid elongated

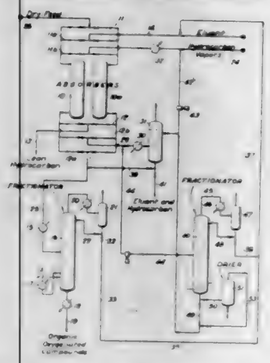
shaft extending through and beyond said tube shaft, a small bevel pinion on said elongated shaft meshing with the other of said ring gears, a collar on the solid shaft abutting the pinion and serving as a complementary race to the counterbore in the bevel pinion in the tube shaft, antifriction end thrust bearing members seating directly on said races, integral external clutch teeth on the forward end of the tube shaft extending into the clutch casing, a removably mounted clutch element adapted for fixed adjustment on the forward end of said elongated shaft, antifriction bearing members seating directly on the remaining counterbored race in the tube shaft and the end of said clutch member, the clutch element being provided with external clutch teeth similar to the integral teeth on the tube shaft and spaced axially therefrom, complementary internal teeth on the cup shaped clutch overhanging the forward ends of said shafts and selectively engageable on the external teeth of said shafts, and exteriorly controlled means for shifting said clutch.

2,529,624

REVIVIFICATION OF ADSORBENTS

Wallace J. Murray, Dedham, Mass., assignor, by mesne assignments, to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application October 13, 1948, Serial No. 54,314
4 Claims. (Cl. 260—450)



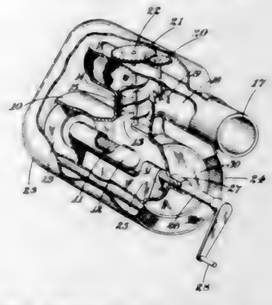
1. In the process of recovering organic oxygenated compounds from a hydrocarbon stream containing dissolved carboxylic acids, ketones, aldehydes and alcohols wherein the bulk of the oxygenated compounds are removed from the hydrocarbon stream by extraction with a solvent and the remaining hydrocarbon stream is washed with water, dried, and contacted with a solid adsorbent for removing unextracted portions of the oxygenated compounds, the improved method of operation which comprises activating the adsorbent by contacting it at a temperature of 150° to 200° C. with the vapor of a hydrocarbon boiling within the naphtha boiling range whereby the adsorbent is wetted with said hydrocarbon, contacting the wetted adsorbent with said dried hydrocarbon containing unextracted oxygenated compounds at a temperature of about 20° to 40° C. for selectively adsorbing oxygenated compounds on the adsorbent and withdrawing hydrocarbons from which oxygenated compounds have thus been removed, subsequently contacting said adsorbent with an eluant which has a higher capacity for adsorption than the initially adsorbed oxygenated compounds and which is lower boiling than said initial oxygenated compounds whereby the initially adsorbed compounds are displaced, withdrawing the displaced compounds and unadsorbed eluant liquid and distilling the lower boiling eluant liquid from the higher boiling oxygenated compounds, subsequently displacing adsorbed eluant liquid from the adsorbent by contacting the adsorbent at a temperature between about 150° and 200° C. with a hydrocarbon boiling in the naphtha boiling range, removing displaced eluant with the major portion of the last named hydrocarbon while leaving the adsorbent wet with hydrocarbon and ready for further adsorption of oxygenated compounds, separating displaced eluant liquid from the hydrocarbon with which it is admixed, combining the eluant from the fractionation and separation steps and re-employing said combined eluant and said separated hydrocarbon respectively in repeated cycles as hereinabove set forth.

2,529,625

VACUUM CLEANER

Laszlo Namenyi-Katz, London, England

Application May 16, 1949, Serial No. 93,623
4 Claims. (Cl. 183—6)



1. A dust disposal device for a vacuum cleaner comprising a collecting chamber having an inlet and an outlet, a filter in said outlet to permit the passage of air out of the collecting chamber and to prevent the passage of dust, a combustion chamber, a worm feed for feeding the collected dust from the collecting chamber into the combustion chamber, means for igniting the dust in the combustion chamber and means for passing the filtered air from the collecting chamber around the outside of the combustion chamber to cool said combustion chamber.

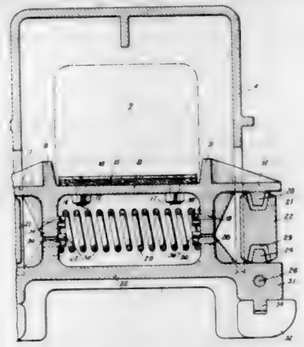
2,529,626

CUSHIONING AND CENTERING DEVICE FOR RAILWAY CAR COUPLERS

Karl T. Nystrom, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application January 29, 1947, Serial No. 725,129
8 Claims. (Cl. 213—61)

1. A device for supporting and centering a laterally movable car coupler upon a member fixed to a car; said device comprising a carrier adapted to move laterally with a coupler, a rocker interposed between each end of the carrier and the adjacent end of said member to support said coupler, said carrier having spaced depending webs, each web having a vertical slot therein, said member having spaced upwardly projecting webs extending into said slots, respectively, a resilient element having each end thereof engageable with one of said depending webs and one of said upwardly projecting webs when the carrier is in centered position and associated therewith so that upon lateral movement of the carrier in either direction one of said depending webs com-



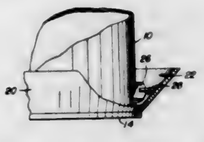
presses the resilient element against the opposite upwardly projecting web, which compression causes the carrier to return to centered position when free to do so.

2,529,627

WATERING DEVICE

John Charles Oldfield, Yakima, Wash.

Application May 12, 1949, Serial No. 92,897
1 Claim. (Cl. 119—77)



In a watering device including a dish-shaped trough having a bottom, an upwardly and outwardly extending side wall and an annular groove in said bottom at the lower edge of said side wall, and an inverted tank having an open annular lower end portion thereof rotatably seated in said groove, means for separably attaching said tank to said trough, said means comprising a set of circumferentially spaced lugs secured to and projecting inwardly from the inner surface of said side wall substantially above said bottom, and a set of spiral arcuate strips secured at one longitudinal edge thereof to the outer surface of said tank and projecting outwardly therefrom, said strips affording inclined upper surfaces frictionally engageable with lower surfaces of the respective lugs whereby to sustain the tank in position on the trough.

2,529,628

EDUCATIONAL FLAG

Miriam S. Pollock and Morris P. Pollock, Brookline, Mass.

Application October 3, 1949, Serial No. 119,301
2 Claims. (Cl. 35—73)

1. An educational puzzle for teaching the construction and component parts of the American flag comprising a substantially rectangular base, a blue field on said base, a plurality of holes in said field arranged to form a rectangular portion at one corner thereof, pegs removably receivable in said holes, and red and white slats removably receivable on the remaining portion of said field, forty-eight holes being provided and said pegs

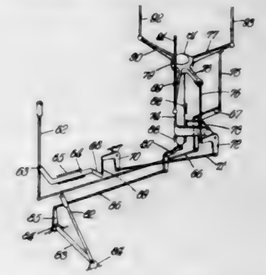
including star-shaped heads each having an abbreviation of one of the states disposed thereon.

2,529,629

ROTARY-WING AIRCRAFT WITH PLURAL ROTORS

Cyril George Pullin, Tadburn, Ampfield, and Kenneth Watson, Woolston, Southampton, England, assignors, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Application July 26, 1947, Serial No. 763,858
In Great Britain July 30, 1946
3 Claims. (Cl. 244—17.23)



1. In an aircraft having at least three sustaining rotors arranged to rotate on spaced generally upright axes offset in different directions from the center of gravity of the aircraft, a flight-control system which comprises in combination with control means, a spider or like member which can be tilted about any horizontal axis and has as many arms or linkage pick-up points as there are rotors, which arms or pick-up points are disposed in plan in corresponding relationship to the lines joining the several rotor centres to the c. g. of the aircraft, and independent control circuits operated by the control means for displacing the spider or like member in the pitching and rolling planes respectively, each of said spider arms or pick-up points being connected to means for varying the lift of the corresponding rotor, in such a way that the control system is "isotropic" in the sense herein defined.

2,529,630

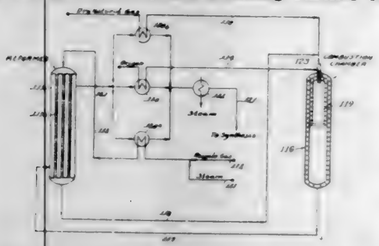
PROCESS FOR THE MANUFACTURE OF SYNTHESIS GASES

Eric H. Reichl, Orinda, Calif., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

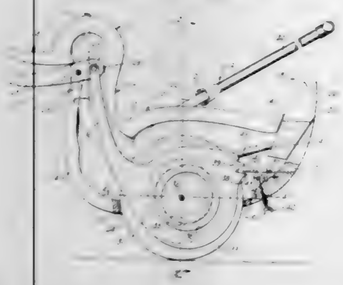
Application April 25, 1947, Serial No. 743,889
1 Claim. (Cl. 48—215)

In a process for producing a mixture of carbon monoxide and hydrogen for effecting synthesis

with a promoted iron catalyst, the improved method of operation which comprises mixing water vapor with carbon dioxide and methane to form a reformer gas charge, contacting said gas charge with a reforming catalyst in a reforming zone at a temperature in the range of about 1200° to 1500° F. under conditions for converting only about 10% to 45% of said methane endothermically to produce a hot gas mixture containing carbon oxides, hydrogen and unreacted methane, adding both oxygen and additional methane to said hot gas mixture and effecting further conversion in a combustion zone, supplying heat to said combustion zone by partially burning said unconverted and additional methane with said oxygen to maintain combustion temperature in the range of about 1900° F. to 2600° F. and sufficient to effect substantially complete conversion of methane and carbon dioxide into hydrogen and carbon monoxide, supplying the endothermic conversion heat in the reforming zone by indirect contact with hot products produced in said combustion zone, and withdrawing said products for use as synthesis gas after they have been cooled by said indirect contact with the reforming zone.

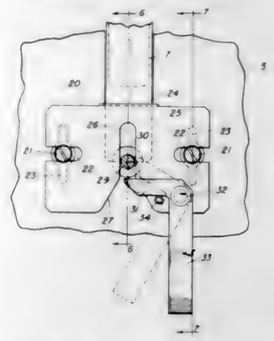


2,529,631
MOVING AND SOUNDING FIGURE TOY
Oak L. Ritter, San Francisco, Calif.
Application December 26, 1947, Serial No. 793,879
3 Claims. (Cl. 46—98)



1. In an animated sounding toy simulating a living creature, including a hollow body, a hollow neck, a head having a movable lower jaw, sounding means in said body, and running gear rotatably mounted on said body; the improvement comprising a tail, means mounting said tail on said body for movement relative thereto, said tail including a cam surface inwardly of said body, said running gear including a rotatable axle, a cylindrical cam eccentrically fixed to said axle for rotation therewith, an eccentric pivotally mounted on said cam inwardly of said body, an integral extension of said eccentric extending through said neck, means operatively connecting said extension to said jaw to actuate the latter, a second integral extension of said eccentric, said second extension being intermittently engageable with said sounding means to actuate the latter, a third extension on said eccentric, said third extension being intermittently engageable with said cam surface of said tail to actuate the latter, and means on said body for engaging said sounding means for silencing the same.

2,529,632
WATER CLOSET CONSTRUCTION
Irving H. Russell, Oak Park, and James A. Sloan, River Forest, Ill., assignors to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application October 21, 1946, Serial No. 704,558
5 Claims. (Cl. 4—70)

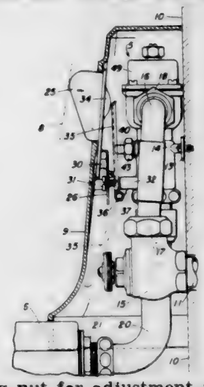


1. In a water closet combination, a water closet bowl, a flush valve for flushing the water closet bowl, together with a housing for concealing the flush valve, and means for fastening said housing directly to said flush valve, said fastening means comprising a bracket on said housing and an engaging member on said flush valve, said bracket having a vertical slot therein adapted to slidably engage said engaging member as the housing is placed over the flush valve, bracket supporting studs on said housing, said bracket having horizontal slots therein engaging said supporting studs whereby said bracket is free to shift horizontally as it is slid onto the flush valve to compensate for variations in the position of said flush valve with respect to said water closet bowl.

2,529,633
WATER CLOSET CONSTRUCTION
Irving H. Russell, Oak Park, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application December 30, 1946, Serial No. 719,246
2 Claims. (Cl. 4—250)

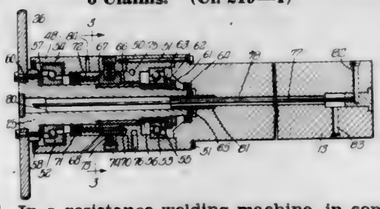
1. In combination, a flush valve and a housing for enclosing the flush valve, means for removably supporting said housing on said flush valve comprising a bracket arranged on the rear of said housing engaging an adjustable screw on said flush valve, an operating button extending through said housing and supported thereon, an upwardly extending lever pivoted at its lower end to said flush valve and having its upper end arranged directly behind and in operative relation to said operating button, a plunger on said flush valve for operating the same arranged between the ends of said lever and directly behind the same and operated thereby when the operating button is actuated, said lever having a cut out portion at its lower

pivoted end through which said adjustable screw extends so that the housing can engage said screw on the front side of said lever, a locking nut on said adjusting screw arranged behind said lever, said lever arranged to be rotated downward to expose said plunger and



said locking nut for adjustment purposes when said housing is removed, and a spring arranged on the pivoted end of said lever for biasing the same lightly against said plunger and away from said operating button to enable said housing to be placed in position without contacting said lever.

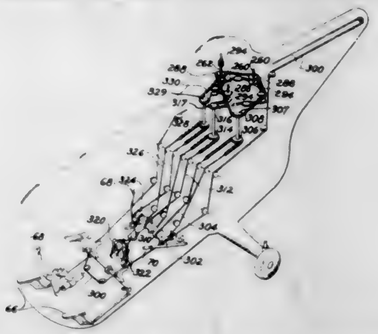
2,529,634
SLIDING CONTACT SYSTEM FOR CONDUCTING ELECTRIC CURRENTS
David Sciaky, Chicago, Ill., assignor to Welding Research, Inc., Chicago, Ill., a corporation of Illinois
Application August 2, 1949, Serial No. 108,164
6 Claims. (Cl. 219—4)



1. In a resistance welding machine, in combination, a current conducting arm, a shaft journalled by the arm and providing an electrode wheel, a plurality of segments of conductive metal having surface contact with the arm and also the shaft, means applying pressure to the segments in two directions to thereby maintain pressure contact of the same with the arm and the shaft, and other means completing an electric circuit through the segments.

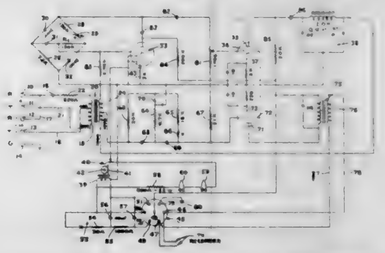
2,529,635
HELICOPTER ROTOR CONTROL MECHANISM
Igor I. Sikorsky, Bridgeport, William E. Hunt, Brooklyn, and Edward F. Katzenberger, Bridgeport, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 31, 1945, Serial No. 625,794
6 Claims. (Cl. 170—160.25)

1. In a helicopter having rotor blades mounted for universal movement in response to aerodynamic forces and to changes in the angle of incidence thereof, the combination of means for controlling the angle of incidence thereof cyclically and collectively comprising, universally tiltable and bodily movable means for controlling the angle of incidence, and manual control means including a plurality of jack screws, each having two relatively rotatable threaded mating parts, and sprocket and chain actuators for said parts,



said manual control means having connections with said sprocket and chain actuators for rotating corresponding parts of all of said jack screws simultaneously to actuate said movable means bodily to change the pitch of said blades collectively and having other connections for rotating the mating parts of certain of said jack screws to tilt said movable means and change the pitch of said blades cyclically.

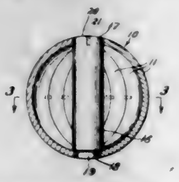
2,529,636
RECORDER-CONNECTOR FOR USE IN TELEPHONE CONVERSATION RECORDING
John P. Smith, Jr., Verona, N. J., assignor to The Daven Company, Newark, N. J., a corporation of New Jersey
Application September 9, 1949, Serial No. 114,801
22 Claims. (Cl. 179—6)



1. In a recorder-connector for connecting a conversation recorder in a telephone line, line connecting means for connecting the recorder-connector in a telephone line including an audio transformer, terminals to provide connection between the transformer and the wires of a telephone line, means connected in circuit with said transformer to sound a tone warning at predetermined time intervals for a predetermined time duration, means connected in circuit with said transformer for amplifying the voice current flowing through the transformer, a terminal element, means connecting said terminal element in circuit with both said tone warning sounding circuit means and said voice amplifying means,

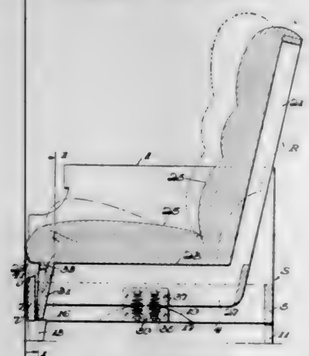
each terminal means including means for connection with a conversation recorder to transmit both the tone warning and amplified voice to the recorder.

2,529,637
FORM FOR MAKING INFLATABLE GAME BALL CARCASSES
William J. Sonnett and William A. Sonnett, Ada, Ohio
Application May 12, 1948, Serial No. 26,568
2 Claims. (Cl. 18—45)



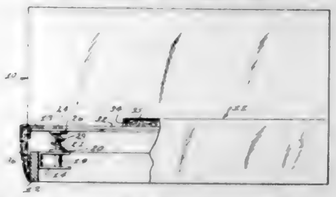
2. A core mold for making an inflatable game ball carcass having a number of sector pieces assembled in edge to edge relationship, arcuately formed ends on each piece, the common ends of the pieces forming round, axially aligned openings in diametrically opposed portions of the core mold, a cylindrical master rod snugly positioned in the openings with each of the pole portions of its side wall in surface contact with the common ends of the sector pieces forming an opening, the ends of the rod being provided with convex surfaces flush with, and complementary to, the spherical surface formed by the assembled sector pieces, said ends constituting with the exterior surfaces of the sector pieces an unbroken mold surface for the core, and a relatively small threaded bore formed through one convex surface of the master rod.

2,529,638
ROCKING CHAIR
William F. Spradlen, Knoxville, Tenn., assignor to Royal Manufacturing Co., Inc., Knoxville, Tenn., a corporation of Tennessee
Application May 19, 1949, Serial No. 94,113
11 Claims. (Cl. 155—71)



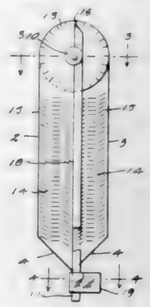
1. A rocking chair combination including a stationary base unit having a front cross rail, a rockable unit including a chair seat and back rockably supported within said stationary base unit and a front panel fixed to said rockable unit for motion therewith, said panel operable within said base unit and behind said front cross rail.

2,529,639
SPRING MOUNTING FOR SEATS
Peter Sterzer, Muskegon, Mich.
Application August 2, 1949, Serial No. 108,153
4 Claims. (Cl. 155—50)



2. A furniture seat mounting assembly comprising a bracket attachable to a seat-supporting frame, a plate attachable to a seat frame, a pair of telescopically-associated members carried by said bracket, means connecting one of said members to said plate, a spring seat carried by said bracket concentrically with said members, a spring seat carried by said plate concentrically with said members, a compression spring surrounding said members between said spring seats, and means limiting spring induced movement of said plate away from said bracket.

2,529,640
DESK OR POCKET BEVEL
William Thomas, San Francisco, Calif.
Application May 28, 1945, Serial No. 596,156
2 Claims. (Cl. 33—75)

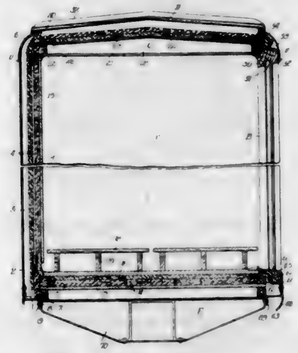


1. An instrument of the class described comprising a pair of legs pivotally connected to one another at one end and, having contacting edges and non-contacting edges, said legs being movable to position the contacting edges in abutting engagement, and a center bar pivoted on the pivotal connection and having an edge adapted for alignment with the contacting edges of the legs and having a shorter end terminating in a point, beveled on the edge opposite said edge aforementioned and having a longer end extending to beyond the free ends of the legs.

2,529,641
PREFABRICATED RAILWAY REFRIGERATOR CAR
Gustav P. Torburn, San Carlos, Calif.
Application December 22, 1945, Serial No. 636,975
14 Claims. (Cl. 105—363)

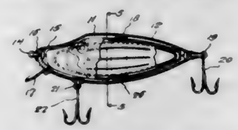
1. A prefabricated railway refrigerator car comprising a unitary vertical wall structure comprising spaced vertical posts with the upper portions thereof curved inwardly and an upper

chord conforming to the curved portions of the posts and secured thereto and terminating in a substantially horizontally disposed U-section comprising an upper arm and a lower arm with a space between said arms, said lower arm being above and supported by the curved portions of the posts, a unitary roof structure supported by



said upper arm and provided with a depending marginal flange which substantially closes said space, and bolts passing through apertures in said roof structure and said upper arm with the nuts on the upper ends thereof, whereby upon removal of said nuts said roof structure may be removed without disturbing the wall structure.

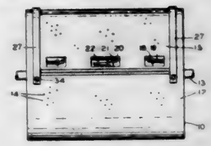
2,529,642
FISH LURE
Ralph H. Vaughn and Conrad M. Lofien, Oak Ridge, Tenn.
Application April 15, 1947, Serial No. 741,448
2 Claims. (Cl. 43—42.32)



1. A plug type fishing lure assembly comprising a two part hollow body of transparent material; a two part hollow colored liner fitting the interior of said body and removable therefrom; a weight carrier fitting the interior of said liner and removable therefrom, said weight carrier comprising a thin walled hollow member of resilient material tapered from the mid length portion toward both ends thereof, and having spaced longitudinal slits therein between the end portions thereof to provide elongated resilient ribs therebetween, and a weight in one end of said weight carrier.

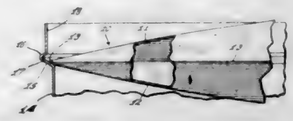
2,529,643
CYLINDER DOOR BAND LOCK
Frank Vetorino, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application August 3, 1946, Serial No. 688,205
5 Claims. (Cl. 220—41)

2. In combination, a work holding drum having a cylindrical wall provided with a charging opening, a door for said opening slidably circumferentially of the drum, a clamping band mounted on the drum and extending over a side edge of the door, said door and band being provided with cooperating interengaging abutment members so located and arranged that during final stage of door closing movement the door abutment member engages the band abutment member and



thereby tightens the clamping band upon the door, and interengaging door locking parts on the door and drum including beveled surfaces so arranged that advance of the locking parts to locking position completes door closing movement and thereby produces maximum clamping effect of said band upon the door.

2,529,644
EXPANSIBLE CLOSURE FOR CONTAINERS
Robert C. Webber, Indianapolis, Ind.
Application April 11, 1945, Serial No. 587,659
1 Claim. (Cl. 220—24.5)

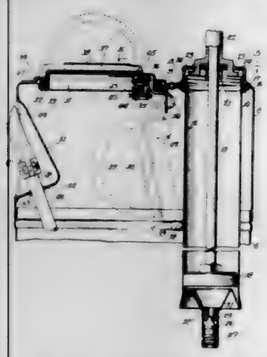


The combination with a receptacle having an open mouth, of a closure for coaction with said receptacle mouth, one of said coacting elements being formed to provide a perimetral tongue and the other of said coacting elements being formed to provide a perimetrally extending groove in facing relation to said tongue and adapted to receive the same, said closure comprising a hollow, gas-tight body substantially in the form of a double convex disc and containing a fluid having a high coefficient of expansion in response to temperature changes in the range between 0° F. and 70° F., said body being freely movable into and out of said receptacle mouth at room temperatures but being perimetrally expansible, upon substantial reduction in temperature, to engage said tongue in said groove, whereby said closure is held against removal from said receptacle mouth so long as such reduced temperature is maintained.

2,529,645
SPRAYING APPARATUS
John Winks and Lynn Fletcher, Lowell, Mich., assignors to Lowell Specialty Company, Lowell, Mich., a corporation of Michigan
Application June 13, 1945, Serial No. 599,258
6 Claims. (Cl. 222—401)

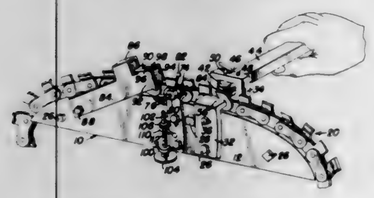
2. A spraying apparatus, comprising a pressure holding container consisting of a central cylindrical portion and top and bottom end portions secured thereto in pressure tight relation, said top portion being provided with a refilling opening and a pump opening, a closure for said refilling opening, a pump cylinder disposed in said pump opening, said cylinder having an integral peripheral flange of greater dimensions than said pump opening, a gasket interposed between said flange and the inner face of said top wall of the container, said cylinder having an end portion projecting into said pump open-

ing, the projecting end of said cylinder being provided with threads, said refilling opening being of greater dimensions than said peripheral flange thereby to receive said cylinder bodily



therethrough, and a pump cap threaded on said projecting end and reacting against the exterior of the container whereby said cylinder is relatively permanently clamped in position in the container.

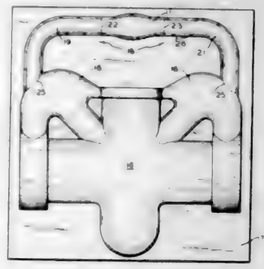
2,529,646
COMBINATION CHAIN SAW SERVICING TOOL
Joseph Wolf, Hood River, Oreg.
Application July 8, 1949, Serial No. 103,627
6 Claims. (Cl. 76—63)



1. A combination chain saw servicing tool comprising a pair of vertically disposed clamping plates, means adjustably connecting the clamping plates, a horizontally swingable saw tooth setting member mounted on the clamping plates and overlying the upper edges of both clamping plates, means for retaining a selected saw tooth of a chain saw in position to the setting member, a feeler gauge mounted on the clamping plates and disposed adjacent the setting member, a raker tooth gauge pivoted to said clamping plates for vertical swinging movement, and an adjustable support and stop for said raker tooth gauge, said adjustable support and stop being carried by one of the clamping plates and limiting pivotal movement of said raker tooth gauge toward said clamping plates.

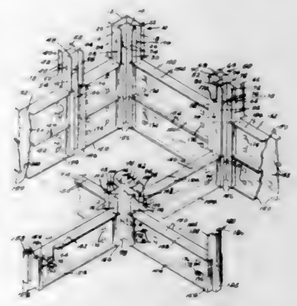
2,529,647
PATTERN FOR FOUNDRY CASTING MOLDS
Dale Arnette, Granite City, Ill., assignor to Key Company, East St. Louis, Ill., a corporation of Missouri
Application September 17, 1948, Serial No. 49,740
3 Claims. (Cl. 22—164)

1. In a pattern for a casting mold, a pattern board, a casting pattern secured to said board, and a rubber gate strip pattern of uniform convex arcuate cross section connecting with



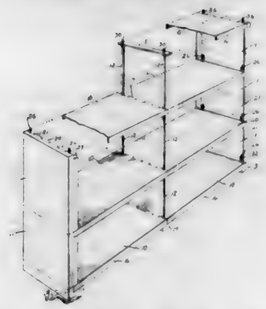
said casting pattern and secured to said pattern board.

2,529,648
FORM FOR CONCRETE CONSTRUCTION
William E. Borton, Omaha, Nebr.
Application November 20, 1947, Serial No. 787,184
3 Claims. (Cl. 25—131)



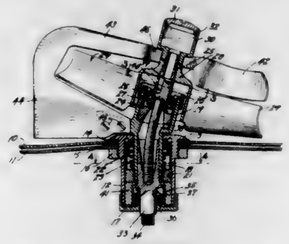
3. In a form for the purpose described, a construction for forming a corner between two walls disposed at a right angle to each other comprising: a pair of upright members forming a two-wall corner standard set in use, said uprights being elongated and spaced apart from each other in use, each of said members having two longitudinal surfaces disposed in use at a right angle with respect to each other, the surfaces of one of said members each being disposed in use confronting and in parallelism with one of the surfaces of the other of said members, said surfaces each having flanges on their longitudinal terminal edges, the flanges of each of said surfaces being disposed in use at a right angle away from the parallel confronting surface of the other of said members; a plurality of elongated wall-form members for disposal between different standards sets, said wall-formed members each having a substantially flat side, said wall-form members having ends having transverse slots therein disposed at a right angle to said flat sides and opening toward said flat sides, said slots being of widths for receiving said flanged edges of said standards; means for securing said uprights together in spaced apart relationship with respect to each other; and means for securing certain of said wall-form members together in spaced apart relationship with respect to each other and to said uprights.

2,529,649
SECTIONAL SHELVING
George Coplen, Colorado Springs, Colo.
Application December 6, 1947, Serial No. 790,050
3 Claims. (Cl. 211—148)



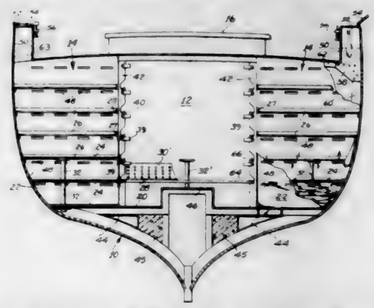
1. Sectional shelving comprising: two end base members adapted to rest upon the floor; a series of dove tailed projections along the top of each base member; a pair of studs projecting upward from each base member; a shelf extending between said base members and resting thereon, there being dove tailed notches in the extremities of said shelves receiving said dove tailed projections to resist separation of said base members; an end plate resting on each base member and acting to hold said shelf in said notches, said end plates having openings for the reception of said studs; a second series of dove tailed notches along the top of each end plate; and a second shelf extending between said end plates and resting thereon, there being dove tailed notches in the extremities of said second shelf engaging said second series of dove tailed notches to resist separation of said end plates.

2,529,650
IMPELLER FOR DISHWASHING MACHINES
Harold G. Davis, Denver, Colo.
Application July 3, 1944, Serial No. 543,392
2 Claims. (Cl. 308—22)



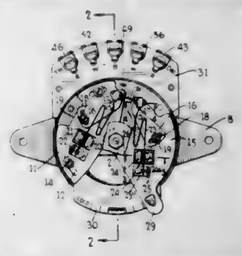
1. In a dishwashing machine of the type having an impeller shaft axially positioned within a rotatable housing which in turn is positioned within a stationary outer housing, means for resisting rotation of said rotatable housing comprising: an annular bearing member secured upon said rotatable housing and projecting outwardly toward said outer housing; a cylindrical compression spring surrounding said rotatable housing and resting against said bearing member; and an annular sealing member surrounding said rotatable housing and being positioned between the other extremity of said spring and said outer housing, said spring acting to force said sealing member into frictional engagement with said outer housing to resist the tendency of said rotatable housing to rotate with said impeller shaft.

2,529,651
FISHING BOAT HOLD AND COLD STORAGE CONSTRUCTION
Raymond A. Davis, Seattle, Wash.
Application June 26, 1948, Serial No. 35,507
9 Claims. (Cl. 62—14)



1. In a fishing vessel or the like, the combination comprising a plurality of fish pens arranged at the sides of the vessel and within its hold, a plurality of separate fish supporting trays mountable in vertically spaced relation within said pens to receive and support separate piles of fish thereon, and air duct means communicating with the spaces between said trays for effecting passage of cooling air substantially uniformly over all of said trays.

2,529,652
LIMIT SWITCH
Allen A. Dicke, Montclair, N. J., assignor to Crown Controls Company, Inc., New Bremen, Ohio, a corporation of Ohio
Application November 16, 1948, Serial No. 60,210
6 Claims. (Cl. 200—138)



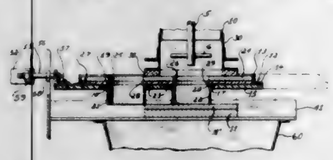
1. A limit switch for use in temperature control systems comprising, in combination, a thermo-responsive actuator, a mounting member, a supporting bracket on said mounting member, a flexible contact blade carried by said supporting bracket in a position where it may be engaged by said actuator, and at least one contact carried by said mounting member in a position where it is engageable by said contact blade, a magnet mounted adjacent said contact, and magnetic material associated with said contact arm so that the contact arm is attracted toward said contact, the contact arm being formed with convolutions between the point where it may be engaged by the actuator and the point where

it is engageable with the contact, whereby the resiliency of the contact blade is increased so that energy may be stored therein by the actuator while the magnet is holding the contact blade in engagement with the contact, until the convoluted contact blade is strained sufficiently to overcome the pull of the magnet whereupon the contacts will be separated quickly by the energy stored in said convoluted contact blade.

2,529,653
TERMINAL STRIP FOR ELECTROMAGNETS
Hirsch E. Epstein, Chicago, Ill., assignor of one-half to Louis R. Duman, Chicago, Ill.
Application June 11, 1947, Serial No. 753,863
3 Claims. (Cl. 175—21)

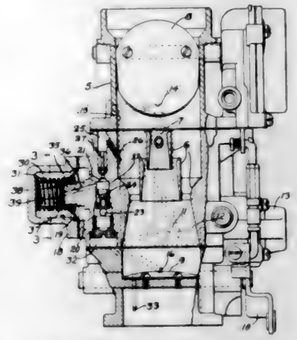
3. The combination with an electromagnetic circuit element having a laminated core, an exposed core end, a clamp engaged upon said exposed end and having opposed jaws gripping the surfaces of the core to hold same in assembly, of a terminal member comprising a tri-partite flat member, one flap of which is engaged between a jaw and a core surface, another of which is free and carries metallic terminal means mounted thereon and a third flap disposed between the jaw and the second flap as an insulation shield, all three flaps having substantially a common hinge axis.

2,529,654
RECIPROCATING MEASURING POCKETS HAVING VOLUME VARYING MEANS
Emmett J. Gilmore, Montrose, and Ernest P. Lutz and Zoltan Lutz, Los Angeles, Calif.
Application July 23, 1946, Serial No. 685,670
5 Claims. (Cl. 222—305)



1. In a filling machine, a fixed hopper having a discharge spout, a sleeve slidable on and depending from said spout, a frame, a slide support fixed to said frame below said sleeve, a reciprocable slide assembly guided in said frame between said slide support and said sleeve and including plates mounted one upon the other and having registering openings therein adapted to register with said sleeve, measuring sleeves fixed to and depending from the lowermost of said plates in line with said openings and having their lower ends slidably mounted on said slide support, a yieldable pad carried by said slidable sleeve and contacting the uppermost of the plates of said slide assembly to prevent leakage between the slidable sleeve and said slide assembly; spring means associated with said frame, said slidable sleeve and said slide assembly for yieldably urging said pad on the sleeve against said uppermost plate and yieldably urging said measuring sleeves against said slide support and means for reciprocating said slide assembly, said slide support being arranged to maintain the lower end of said measuring sleeves closed only when said measuring sleeves are in registry with said slidable sleeve on the spout.

2,529,655
CARBURETOR ACCELERATING PUMP
Otto Henning, Clayton, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application December 17, 1945, Serial No. 635,572
4 Claims. (Cl. 261—34)

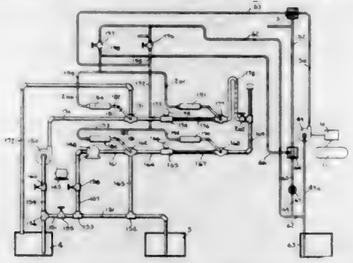


1. In a carburetor, a fuel supply chamber, a mixture conduit, and an accelerating pump comprising a pressure chamber, a diaphragm forming a movable wall therefor, said diaphragm having a central orifice, a cylinder secured in said orifice, a stationary plunger received in said cylinder and forming a dash pot therewith, fluid connections between said supply chamber and the pump pressure and dash pot chambers, a check valve in one of said dash pot connections, and opposing substantially spaced valve seats for said valve, said valve being apertured and one of said seats being constructed relative thereto so that the passage of fluid in said last connection is substantially unrestricted when said valve engages said last seat, the other valve seat being constructed and arranged to substantially restrict fluid flow in said last connection when said valve is seated thereagainst, and there being substantial clearance past said valve when free of both of said seats whereby said diaphragm and cylinder are permitted initial movement in one direction substantially free of restriction from said dash pot and subsequent movement of said diaphragm in said direction is restricted by said dash pot.

2,529,656
BINDER SUPPLY SYSTEM
Henry C. Hettelsater, Whitefish Bay, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Original application December 13, 1943, Serial No. 514,177. Divided and this application December 15, 1944, Serial No. 568,255
4 Claims. (Cl. 299—46)

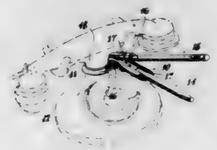
1. In a binder fluid supply system for a material treating apparatus of the class described, the combination comprising a binder fluid reserve tank, a binder fluid pump, a spray pipe, a supply conduit connecting the discharge of said pump

with said spray pipe, a proportioning by-pass valve in said supply conduit, having a side branch rejection port, a conduit for disposing of rejected fluid from said side branch port, means connecting the inlet of said pump with said reserve tank, a cut off valve in said supply conduit adjacent to said spray pipe, a spring loaded hydraulic actua-



tor for said by-pass valve, a second spring loaded hydraulic actuator for said cut off valve adapted to respond to a lower actuating pressure than said first mentioned hydraulic actuator, and means for supplying hydraulic actuating fluid to said actuators under controlled adjustable pressure.

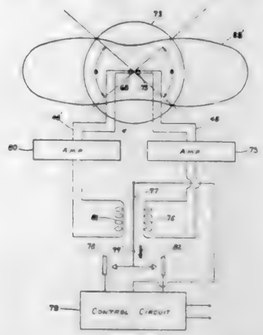
2,529,657
COMBINED PEN AND PENCIL HOLDER
John J. Kennedy, Richmond Hill, N. Y.
Application November 30, 1946, Serial No. 713,372
4 Claims. (Cl. 24—81)



3. A combined pencil and pen holder comprising, in combination, a supporting member, a helical sleeve element for holding a pen carried by said member, a socket disposed at an inclined angle with said sleeve element for holding a pencil, and a tongue integral with said sleeve for supporting said socket, the end of said tongue extending into said socket and being adapted in conjunction with said socket to frictionally engage the tip of said pencil, said socket having a longitudinally inclined groove on its external periphery for registration therein of a clip of said pen.

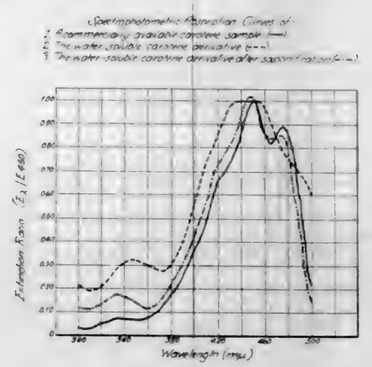
2,529,658
TRANSDUCER AND SYSTEM
Frank Massa, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application January 31, 1944, Serial No. 520,568
1 Claim. (Cl. 177—386)

In a system for controlling the initiation of an event; a first microphone having a first sensitivity pattern; a second microphone having a second sensitivity pattern; means connecting said two microphones together closely adjacent each other with their sensitivity patterns overlapping and immovable with respect to each other thereby defining in space a first zone where the first microphone is more sensitive than the second microphone and a second zone where the second microphone is more sensitive than the first microphone; and a differential switch device having two spaced apart coils one of which is connected to said first microphone and the other of which is connected to said second microphone, only a single armature movably mounted between said two coils to be differentially acted upon by the two fields set up by said two coils and carrying



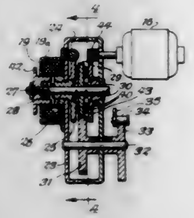
two contacts; control circuit means; and two spaced apart contacts connected to said control circuit means and positioned to be engaged one by one contact on said movable armature and the other by the other contact on said movable armature in accordance with the position of said armature due to the resultant force of said two fields.

2,529,659
CAROTENE DERIVATIVE AND METHOD OF PREPARING THE SAME
Daniel Melnick, Flushing, N. Y., assignor, by mesne assignments, to Duffy-Mott Company, Inc., New York, N. Y., a corporation of New York
Application August 13, 1947, Serial No. 768,616
12 Claims. (Cl. 99—11)



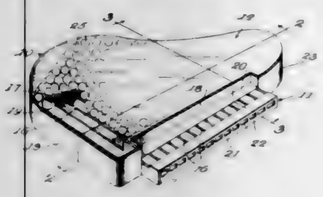
1. As a new composition of matter, the condensation product of carotene and sorbitan monolaurate (ethylene oxide)$_{10}$ characterized by its spectrophotometric curve having a broad plateau in the absorption maximum at a wave length of from 435 to 455 millimicrons and the absence of an absorption peak at a wave length of 475 millimicrons.

2,529,660
HAND AND POWER DRIVE
Alvin D. Meyer, Kenmore, and Carl F. Carlzen, Buffalo, N. Y., assignors to Colonial Radio Corporation, Buffalo, N. Y.
Application October 25, 1944, Serial No. 560,290
2 Claims. (Cl. 74—625)



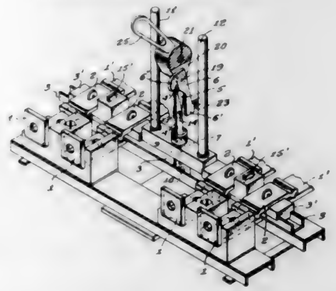
1. In radio apparatus, in combination, a movable element, manual and power means for driving said element, said manual drive including an irreversible mechanical coupling, a shaft, a pair of driving members mounted on said shaft, a driven member on said shaft between said driving members, said driven member having friction material on opposite faces thereof, a spring for urging said shaft in one direction axially, a solenoid for moving it in the opposite direction and means for engaging said manually operated means as soon as said power operated means is disengaged.

2,529,661
COMBINATION CANDY-FILLED MUSICAL TOY AND BANK
Jacob H. Millstein, Jeannette, Pa.
Application January 30, 1948, Serial No. 5,428
2 Claims. (Cl. 46—11)



1. A combination candy-filled musical toy and bank comprising a flat receptacle simulating a piano in top plan, said receptacle having bottom, side and top walls, a partition wall rising from the bottom wall and terminating in spaced relation to the top wall forming two compartments in the receptacle, said bottom wall projecting outwardly of the receptacle at one side thereof and carrying an upstanding wall at its outer edge with a series of openings therein, parallel ribs rising from the outwardly projecting portion of the bottom wall with each of said openings between an adjacent pair of ribs and said ribs extending inwardly of the receptacle to the partition wall to form a musical instrument of the type known as "Pipes of Pan," said top wall carrying a cover member spaced therefrom and engaged with the upper edges of the partition wall and ribs, and the side wall having an opening therein communicating with the compartment spaced from the musical instrument.

2,529,662
ELECTRIC CIRCUIT BREAKER
Adriano Pipponzi, Busto Arsizio, Italy
Application April 3, 1946, Serial No. 659,195
In Italy April 21, 1945
5 Claims. (Cl. 200—106)

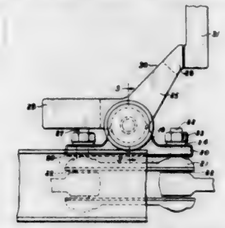


1. An automatic circuit breaker comprising in combination at least two fixed contacts; a bridging contact member adapted to connect said fixed contacts; a movable contact support member carrying said bridging contact member movably between contact making position in contact with said fixed contacts and contact breaking position spaced from said fixed contacts; spring means tending to move said movable contact support member together with said bridging contact member from operative into inoperative position of the same; a first toggle lever turnably secured at one end to said movable contact support member; a second toggle lever turnably secured at one end to said first toggle lever at a point spaced from that point at which said first toggle lever is secured to said movable contact support member; an operating double-armed lever arranged turnably about a stationary pivot and manually operable by turning of one of its lever arms; pivoting means turnably securing said second toggle lever at its other end to the other lever arm of said operating double-armed lever; a catch projection provided on one of said toggle levers; a holding double-armed lever turnably pivoted about pivoting means; a catch hook on one end of one lever arm of said holding double-armed lever adapted to engage said catch projection provided on one of the toggle levers only when said bridging contact member is in operative position; stop means provided on the same lever arm of said holding double-armed lever as said catch hook and associated with the same so as to prevent turning of said toggle levers into and beyond aligned position; and electro-magnetic operating means for turning said lever means so as to release said catch means, permitting said toggle levers together with said movable contact support member and said bridging contact member to be moved by action of said spring means from operative into inoperative position of said bridging contact member.

2,529,663
PUSHER DOG CONVEYER ASSEMBLY
George H. Robinson, Royal Oak, Mich., assignor to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan
Application June 6, 1946, Serial No. 674,827
2 Claims. (Cl. 198—170)

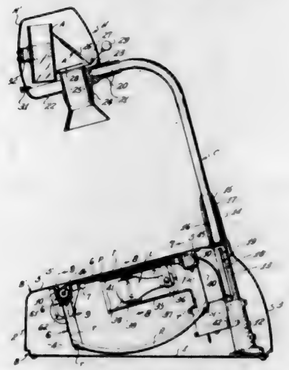
2. In a conveyor line along which independently supported loads are to be moved, a driving means comprising a power driven chain of the type having center links, side bars and removable

locking pins, a chain track having transversely spaced members between which said chain is suspended, the top surface of said track members providing a running surface for wheels on either side of said chain, special locking pins for mounting bracket members as well as for connecting the chain links, bracket members mounted with said locking pins on top of said chain, axles mounted on said bracket members, wheels rotatably mounted on said axles for running along the top surface of said track, pusher dogs articulately mounted



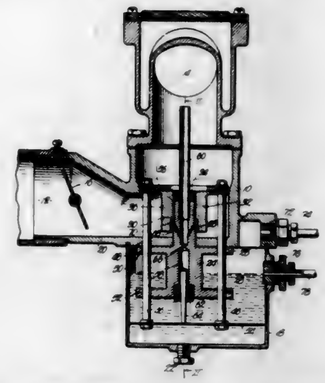
on said axles, said pusher dogs having normally upwardly extending members for drivingly engaging said loads and tailpieces whose weight urges said members to their upward driving position, the upper surface of said locking pins serving as a stop for limiting the articulation of said pusher dogs in a manner whereby the engaging member of said loads may be moved past said pusher dogs in a forward direction but will otherwise be drivingly engaged automatically by said pusher dogs.

2,529,664
VISUAL EDUCATIONAL PROJECTOR
Hudson B. Roysher, Los Angeles, Calif., assignor to Ward Hickok, Beverly Hills, Calif.
Application February 14, 1948, Serial No. 8,385
7 Claims. (Cl. 88—24)



1. An optical projector comprising: a base; an ellipsoidal reflector carried by the base; a light source on the base offset from the focal axis of the reflector; a transparent platen on the base and disposed in a plane at a right angle to the focal axis of the reflector for supporting a light transmitting image bearer, there being an aperture in the base adjacent the platen and image bearer; and a head extended from said base including an objective unit and reflecting means focally alined with the ellipsoidal reflector for receiving light from the ellipsoidal reflector and projecting the same upon an image receiving surface.

2,529,665
FLOATLESS CARBURETOR
Andrew Craig Russell, Shawnee, Okla.
Application May 12, 1947, Serial No. 747,409
1 Claim. (Cl. 261—50)

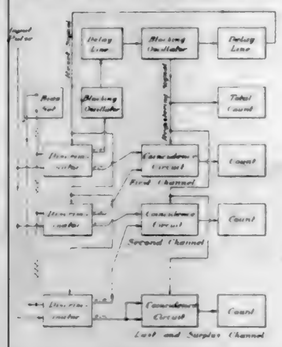


In a carburetor for internal combustion engines having a housing, a continuous air passage through the housing, a fuel bowl depending from one wall of the housing, a tubular member in the fuel bowl and extending into the housing through said one wall thereof, said tubular member having a mixing chamber formed therein and a plurality of passages disposed to direct air from the housing into said mixing chamber and thence downwardly against the surface of fuel therein, the improvement of which includes a collar having an outturned flange at the upper end thereof and a plurality of grooves formed on the periphery of the collar below said flange, said grooves being parallel to the axis of rotation of the collar, a portion of the collar being in circumscribing relationship with the tubular member adjacent the outermost ends of said passages and spaced therefrom; a movable annular valve in the passage and resting on said flange when at one end of its path of travel; a second valve operably joined to the first valve for controlling the flow of fuel from the bowl to the mixing chamber, said collar being threadably mounted on the tubular member for adjusting the position of the valves at said one end of the path of travel; and a set screw threadably mounted in the housing for engagement with said grooves whereby said collar is releasably held from movement out of adjustment.

2,529,666
PULSE HEIGHT ANALYZER
Matthew L. Sands, Everett, Mass., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application July 19, 1948, Serial No. 39,539
4 Claims. (Cl. 250—27)

1. An impulse discriminating and counting system comprising a plurality of electronic channels, a flip-flop circuit in each of said channels, means for biassing the flip-flop circuits in each channel with a selected value of potential different than the value of potential in the other channels, means connected to each flip-flop circuit to lock it in its unstable state for a selected interval; a coincidence circuit, and registering means connected to said coincidence circuit, means for impressing a pulse to be registered on the coincidence circuit within said selected in-

terval, means electrically coupling the coincidence circuit to the respective channel flip-flop circuit to activate it, and means electrically coupling the coincidence circuit to the flip-flop circuit of the channel having the next higher bias,



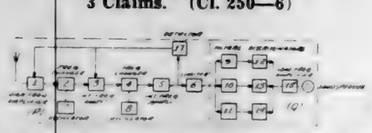
whereby the coincidence circuit permits its respective channel to register a pulse having an amplitude corresponding to the selected bias of the respective channel, and not to register a pulse having an amplitude acceptable to a channel having a higher bias.

2,529,667

RADIO-ELECTRIC TRANSMITTING SYSTEM

Raymond Villem, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France

Application January 21, 1948, Serial No. 3,630
In France January 4, 1947
Section 1, Public Law 690, August 8, 1946
Patent expires January 4, 1967
3 Claims. (Cl. 250—6)



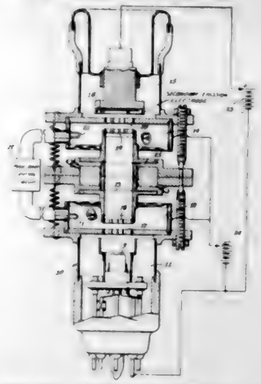
2. A radio communication system, comprising in combination, a network including at least six fixed transmitting stations distributed over a territory; and at least one mobile receiving station displaceable within the limits of the territory, all said fixed transmitting stations emitting, at the same time and with corrected phases, identical low frequency signals on carrier waves frequency modulated according to the frequencies of said low frequency signals, each of said fixed stations operating on a single carrier frequency and the carrier frequencies belonging, respectively, to different ones of said fixed stations having at least three different values, any two of said fixed stations bein geographically near to each other having different carrier frequencies and any two of said fixed stations having the same carrier frequencies being separated from each other by a distance exceeding the sum of the ranges of the respective fixed stations; each of said receiving stations equipped with single means for receiving the various frequency modulated carrier waves transmitted by said fixed stations, means for separating the frequency spectra corresponding to different carrier frequencies, and means for extracting from said frequency spectra the modulated low frequency signals which they contain.

2,529,668

ELECTRON DISCHARGE DEVICE OF CAVITY RESONATOR TYPE WITH REVERSE FLOW OF ELECTRONS

Chao Chen Wang, South Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 12, 1944, Serial No. 553,677
3 Claims. (Cl. 315—6)



1. An electron discharge device of the cavity resonator beam type comprising a cathode, a pair of hollow body resonators having coaxially aligned openings therethrough aligned with the cathode for passage therethrough of an initial beam of electrons from the cathode, means beyond both of said resonators coaxially aligned with said openings and cathode opposite said cathode operable in conjunction with said initial beam for obtaining a secondary flow of electrons in a reverse direction to the flow of electrons of said initial beam, a tubular connection between said resonators coaxial with the openings thereof, said tubular connection comprising a passageway for the said initial beam and constituting both a field free enclosed drift space for the electrons of the initial beam and an anode for the electrons of said secondary reverse flow of electrons, and cooling means for said tubular connection between said resonators.

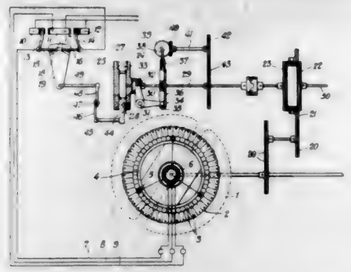
2,529,669

POWER FOLLOW-UP SYSTEM OR REMOTE CONTROL SYSTEM

John Percival Watson, Westminster, London, England, assignor to Vickers-Armstrongs Limited, London, England, a company of Great Britain

Application February 26, 1947, Serial No. 731,107
In Great Britain July 19, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 19, 1959
8 Claims. (Cl. 318—32)

1. A power follow-up system comprising a motor having a stator field winding, a commutator, connections between consecutive segments of the commutator and consecutive tappings of said field winding, a rotor formed as an inductor rotor, a rotational brush system for co-operation with said commutator, a sensitive input shaft, and further comprising a first differential gear with one side member connected to said input shaft, an output shaft driven from said rotor, a connection between said output shaft and the center member of said first differential gear, a second differential gear with one side member connected for rotational displacement with said brush system, a driving connection from the rotor output shaft to the other side member of said second differential, and



transmission means between the other side member of said first differential and the center member of said second differential.

2,529,670

SWEETENING GASOLINE

George W. Ayers, Chicago, Ill., and Erskine E. Harton, Laramie, Wyo., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application July 31, 1948, Serial No. 41,893
6 Claims. (Cl. 196—29)

1. The method of sweetening substantially water-white hydrocarbon liquids containing mercaptans comprising, agitating the liquid to be sweetened with an aqueous alkali metal hydroxide solution containing as a catalyst a small amount of sulfonated wood tar sufficient to accelerate oxidation of sulfur compounds in the hydrocarbon, aerating the mixture and separating from the mixture the sweetened hydrocarbon liquid.

2,529,671

PURIFICATION OF THIONYL CHLORIDE

William E. Bissinger, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application August 4, 1948, Serial No. 42,539
8 Claims. (Cl. 23—203)

1. A method of reducing the sulfuryl chloride content of thionyl chloride contaminated by sulfuryl chloride in amount which is minor with respect to thionyl chloride which comprises heating the contaminated thionyl chloride with a compound selected from the group consisting of hydrocarbons and partially halogenated hydrocarbons, until a substantial portion of sulfuryl chloride has been reacted and separating thionyl chloride from the reaction mixture.

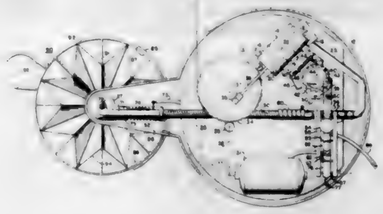
2,529,672

DISPENSING APPARATUS

William A. Black, Montclair, N. J.

Application February 6, 1947, Serial No. 726,877
15 Claims. (Cl. 219—39)

1. Apparatus for dispensing a measured quantity of liquid at an elevated temperature from a reservoir to a receptacle comprising: means providing a fluid outlet for the reservoir; positive-displacement pumping means connected to said outlet for pumping liquid therethrough at a given uniform rate of flow; a discharge outlet for said pumping means for dispensing liquid to the receptacle; heating means associated with the fluid path between said outlets and having a rate of heat generation proportioned to said rate of flow; and means for actu-



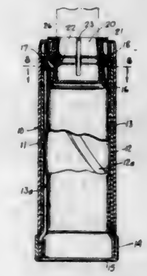
ating said pumping means and for simultaneously operating said heating means for a predetermined operating interval, thereby to dispense a measured quantity of liquid at said elevated temperature.

2,529,673

LIPSTICK HOLDER

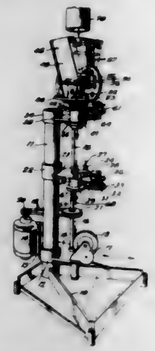
Lucille Blake, New York, N. Y.

Application November 16, 1946, Serial No. 710,349
6 Claims. (Cl. 206—56)



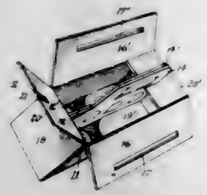
1. In a lipstick holder having a closed end and an open end, a carrier cup mounted for longitudinal movement within said holder, actuating means for propelling and repelling said carrier cup between the open end and the closed end of said holder, said actuating means being operable from the outside of said lipstick holder and being associated with a stop member positioned to stop the propulsion of said carrier cup when said carrier cup reaches the open end of said lipstick holder and before said carrier cup is ejected from said open end, said carrier cup having an annular, radially outwardly extending groove intermediate the top and bottom thereof, a plurality of spaced longitudinal slots extending downwardly from the top edge thereof, and a lipstick holder cup removably insertable within said carrier cup, said holder cup having an annular, radially outwardly extending protuberance intermediate the top and bottom thereof, said annular protuberance cooperating with said annular groove in said carrier cup for removably securing said holder cup therewithin, said holder cup having a resilient side wall which is split longitudinally to enable the diameter of said side wall to be varied, whereby to accommodate lipsticks of varying diametral sizes.

2,529,674
FIBER SPINNING APPARATUS AND METHOD
Fred A. Bluhm, Michigan City, Ind., and Dudley W. Hayes, Chicago, and Albert H. Zeigler, Kenilworth, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
Application April 18, 1947, Serial No. 742,278
18 Claims. (Cl. 57—28)



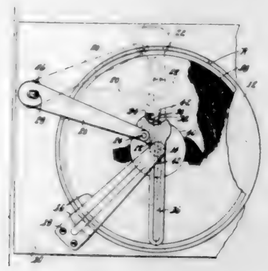
1. In fiber spinning apparatus, a frame, a hopper mounted therein, means for rotating a portion of the fibers in the hopper to form a fiber strand, and means for rotating the strand at a different rate of rotation to the rate of rotation of said hopper to form said strand into a rope body.

2,529,675
CONSTRUCTION OF CARTONS
Laurence William Brulin, New York, N. Y.
Application September 8, 1948, Serial No. 48,283
2 Claims. (Cl. 229—52)



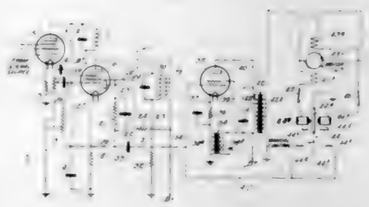
1. A carton structure which includes vertical spaced side wall members, a vertical integrally connected end wall disposed between said side walls, bottom walls integrally connected to the bottoms of said side walls and adapted to be disposed in abutting planar relation, vertical intermediate walls integrally connected to the inner edges of the bottom walls and adapted to be disposed in abutting lateral relation, a second end wall integrally connected to the side edge of one of the side walls and adapted to be swung into position at right angles to the adjacent ends of said side walls, spaced foot plates on the bottoms of the end walls and adapted to be horizontally disposed projecting into the carton along and above the bottom walls and embracing between them the abutting intermediate walls, handle sections extending upward from the tops of the intermediate walls, slitted cover sections connected to the top edges of the side walls and adapted to be swung over toward each other and to receive the handle sections in said slits.

2,529,676
TONE ARM
Jerry R. Carris, Washington, Iowa, assignor of one-half to Riley R. Osborn, Chicago, Ill.
Application April 5, 1945, Serial No. 586,751
5 Claims. (Cl. 274—23)



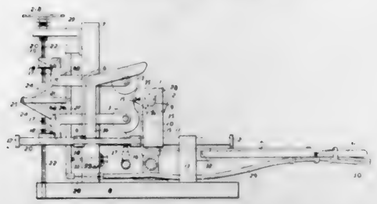
1. In a tone arm for phonographs and the like a primary arm, a secondary arm pivoted thereto, a needle supported by said secondary arm, and a center pin, said secondary arm being engageable with said center pin to maintain a relation between said needle and the record groove wherein the needle is tangent to the groove at all positions of the secondary arm.

2,529,677
MOTOR TUNING SYSTEM FOR RECEIVING SYSTEMS
Nelson P. Case, Oak Park, Ill., assignor to The Hallicrafters Co.
Application February 13, 1947, Serial No. 728,317
17 Claims. (Cl. 250—40)



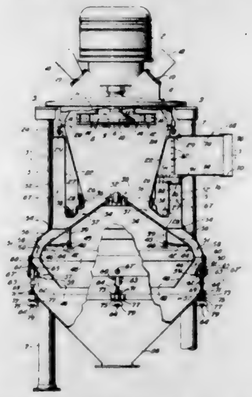
1. In a receiving system having variable tuning means and means for developing an actuating voltage having characteristics which vary as a function of the tuning with respect to a received signal, apparatus of the character described, including: motor means adapted to vary said tuning means; circuit means including said motor means and a first normally open switch; a second independently operable normally open switch; control means mechanically interconnecting said switches and operable to close said first and second switches; and electronic means adapted to control an energizing voltage in said circuit and maintain only said first switch closed, said electronic means being coupled to said means for developing an actuating voltage and being operated by said actuating voltage to cause said first switch to open and said energizing voltage to be removed when said receiving system has been tuned to approximate resonance with said received signal.

2,529,678
METHOD OF AND APPARATUS FOR PRODUCING FLATTENED GLASS TUBING
Leonard C. Casselle, Thame, England
Application August 4, 1949, Serial No. 108,475
In Great Britain August 26, 1947
5 Claims. (Cl. 49—7)



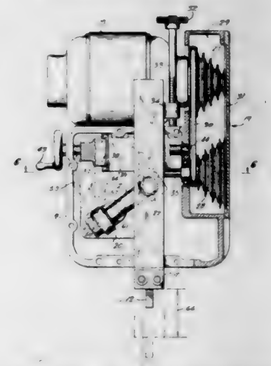
2. Apparatus for producing flattened glass tubing from round glass tubing including a framework on which a pair of parallel rollers is carried by rocker arms, a carriage slidable in said framework towards and from said rollers and a support on said carriage for supporting the glass tube and former with the axis of the tube parallel with the axes of said rollers.

2,529,679
SCOURER-ASPIRATOR AND METHOD
Robert Benjamin Dodds, Woodbridge, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application October 21, 1947, Serial No. 781,130
13 Claims. (Cl. 146—221.7)



1. In apparatus for treating bulk products, the combination of, means forming a casing having a product-inlet opening at the top and a product-discharge opening at the bottom, a rotor mounted within said casing beneath said inlet opening and adapted upon rotation to subject the product particles to an impacting action against the side of said casing and to impart to the product particles rapid rotary movement, an inwardly tapering scouring shell mounted beneath said rotor and adapted to receive the product as it is discharged from said rotor and to direct the product downwardly in a thin unimpeded annular stream, conical surface forming means forming with the bottom of said shell an annular product-directing chute including baffle structure to stop the rotary movement of the product and to direct the product downwardly and radially-outwardly, means forming an annular aspirating passageway exteriorly of said shell and including an annular aspirating gap at the exit end of said chute and across which said product flows, and means to flow a stream of air upwardly through said aspirating passageway and through said product at said gap.

2,529,680
SLOTTING MACHINE
Theodore F. Eserkaln, Wauwatosa, and Charles A. Parske, Milwaukee, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application July 11, 1946, Serial No. 682,850
9 Claims. (Cl. 90—40)



1. In a machine tool of the reciprocatory ram type, a frame, a ram slidably mounted in said frame for reciprocating movement along its longitudinal axis, power driven actuating mechanism slidably mounted in said frame for adjusting movement along a path transverse to the longitudinal axis of said ram, an oscillatory arm carried by and driven by said actuating mechanism for oscillatory movement in the direction of movement of said ram, and linkage slidably engaging said arm and operatively interconnecting said arm and said ram, the arrangement being such that movement of said actuating mechanism relative to said ram axis causes said arm to slide in said linkage and changes the effective length of said oscillatory arm thereby affording adjustment of the length of the stroke of movement imparted to said ram.

2,529,681
FUSED DDT COMPOSITIONS CONTAINING AN ABSORBENT INERT
Albert L. Flenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1945, Serial No. 585,801
5 Claims. (Cl. 167—42)

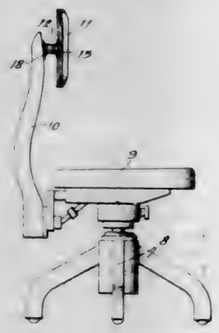
1. The method which comprises heating DDT to a temperature above fusion but below about 110° C. and gradually feeding the fused DDT, in proportions to give a dry product, into a mass of a finely divided absorbent inert solid powder while maintaining the temperature of the absorbent powder above the fusion temperature of DDT but below 110° C. and while stirring the powder to effect a mixture of the fused material and the absorbent powder, the rate of addition of the fused DDT into the absorbent powder being con-

trolled so that the mixture remains as an apparently dry powdered solid thruout the addition and mixing operation.

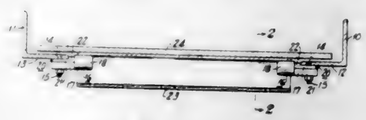
2,529,682
2,2- BIS(4- METHOXYPHENYL)-1,1,1-TRICHLOROETHANE INSECTICIDAL DUST AND PROCESS FOR MAKING SAME
Albert L. Flenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 16, 1946, Serial No. 683,988
5 Claims. (Cl. 167—42)

1. The method for preparing an insecticidal dust composition containing 2,2-bis(4-methoxyphenyl)-1,1,1-trichloroethane as an essential active ingredient which comprises gradually introducing the 2,2-bis(4-methoxyphenyl)-1,1,1-trichloroethane in a fused state at a temperature above 90° C. but below about 115° C. into a mass of adsorbent powder while agitating the powder to effect a mixture of the fused material and the adsorbent powder, the rate of addition of the fused 2,2-bis(4-methoxyphenyl)-1,1,1-trichloroethane into the adsorbent powder being controlled so that the mixture remains as an apparently dry pulverulent solid thruout the addition and mixing operation, and continuing the agitation following completion of the addition of the fused 2,2-bis(4-methoxyphenyl)-1,1,1-trichloroethane while cooling the mixture to a temperature not in excess of about 50° C., whereby there is obtained a free-flowing dust product characterized by having the 2,2-bis-(4-methoxyphenyl)-1,1,1-trichloroethane adsorbed in the pores and on the surfaces of the adsorbent powder.

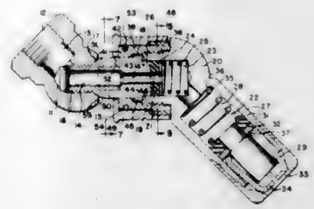
2,529,683
YIELDABLE CONNECTOR FOR THE BACK REST OF CHAIRS
Martin Fox, Chicago, Ill., assignor to The Seng Company, a corporation of Illinois
Application December 21, 1946, Serial No. 717,681
3 Claims. (Cl. 155—158)



1. A pair of yieldable connector members for securing a back-rest resiliently to the back frame of a chair, each of said connector members comprising: a short resilient post of stiffly elastic material, the lateral surface of said post being normally closed against admission of fabrics brought into contact therewith; and fastening brackets for each end of said post for securing it to a back-rest and back frame which are relatively movable.

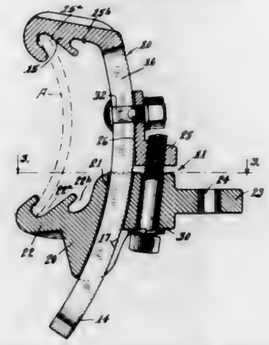
2,529,684
SUPPORT FOR CONVEYER ROLLERS
Karl W. Gass, Pittsburgh, Pa., assignor to Amsler Morton Corporation, Pittsburgh, Pa., a corporation of Delaware
Application December 26, 1946, Serial No. 718,277
1 Claim. (Cl. 198—184)

A conveyor belt support comprising spaced frame members, a parallel series of oppositely disposed pairs of brackets mounted on said frame members to project toward each other, each bracket having an upwardly facing arcuate bearing surface integral with its outer end, a roller for each pair of said brackets, a cavity in each end of each roller to provide an inner annular bearing surface that is larger than and extends over the bracket, the inner annular bearing surfaces of the roller cavities riding on and moving relative to the integral arcuate bearing surfaces on the brackets.

2,529,685
LUBRICATING DEVICE
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application May 27, 1946, Serial No. 672,599
9 Claims. (Cl. 285—96.1)



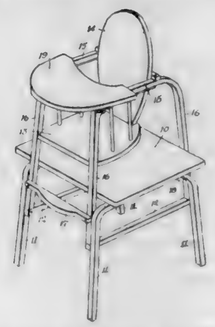
1. A lubricant discharge nozzle comprising, a conduit member, a nozzle member, means forming a swivel connection between said members, whereby their angular relationship may be changed, a series of locking teeth associated with and rotatable by said nozzle member, said swivel connecting means including a member encompassing said locking teeth, a series of cooperating locking teeth adapted to engage the first mentioned locking teeth and associated with said encompassing member interiorly thereof, means affording relative sliding movement of said encompassing member on said nozzle member to engage and disengage said teeth to afford relative rotation of said nozzle member with respect to said encompassing member when said teeth are disengaged, and frictional means interposed between said encompassing and nozzle members tending to oppose but affording said sliding movement, said means affording said relative sliding movement and said frictional means being wholly contained within the circumferential confines of said encompassing member.

2,529,686
BUMPER HITCH
Harold C. Green, Hastings, Nebr., assignor to Dutton-Lainson Company, Hastings, Nebr., a corporation of Nebraska
Application July 12, 1948, Serial No. 38,322
9 Claims. (Cl. 280—33.44)



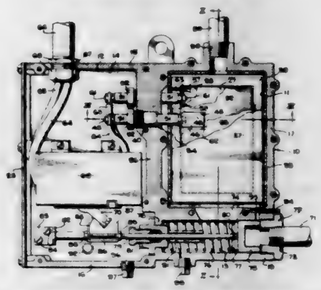
1. A trailer hitch comprising a clamp member having an upright leg, terminating at one end in a forwardly extending leg, a clamp head mounted for vertical adjustment on said upright leg, said head having a forwardly extending leg, a portion of the cooperating surfaces of said upright leg and said clamp head being formed with a series of cooperating, transversely extending serrations for assisting in maintaining said parts in a predetermined position of adjustment, said forwardly extending legs of said clamp member and head being formed with oppositely facing, cooperating hook features, disposed in approximate vertical alignment, and means for firmly securing said head on said upright leg of the clamp member, with said hook features disposed in a desired, spaced apart cooperating relation, for engagement with the upper and lower edges of an automobile bumper.

2,529,687
TABLE AND CHAIR
Bernard J. Greenbaum, Westport, Conn.
Application May 25, 1946, Serial No. 672,232
3 Claims. (Cl. 155—39)



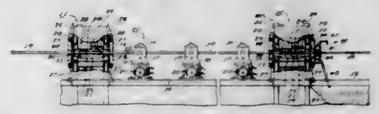
1. A table having a top and legs, a chair having legs and disposable with the legs snugly enclosing the adjacent front and rear edges of the top, and means on the legs of the table to support the legs of the chair resting thereon.

2,529,688
ELECTRIC FLUID HEATER
Edward L. Grupp, Glendale, Calif.
Application April 26, 1947, Serial No. 744,145
8 Claims. (Cl. 219—40)



1. A fluid heater including: a housing; a partition in said housing forming two compartments; a cylinder in said housing; an electric switch in one of said compartments; a heating unit in the other of said compartments, said heating unit comprising a pair of electrodes; means for biasing said electrodes toward one another; and means for retaining said electrodes at a desired distance apart, said biasing means being supported in floating relation to the first named compartment; an electric conductor connecting said switch and said heating unit; means for connecting a source of current to said switch; a piston in said cylinder; a fluid inlet and a fluid outlet connected with said heating unit compartment; means actuated by said piston in response to fluid pressure in said inlet for actuating said switch, and an adjustable port connecting said inlet with said other compartment for equalizing the pressure therebetween.

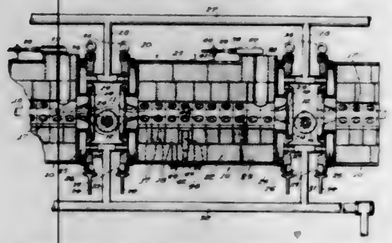
2,529,689
PROCESS OF HEAT-TREATING METAL WORK OF ELONGATED EXTENT
Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application March 23, 1944, Serial No. 527,771
8 Claims. (Cl. 148—13.1)



3. In the art of processing metal work of elongated extent, such as, for example, copper, brass, bronze and stainless steel, the improvement which comprises, passing the work through a place of heating, progressively heating successive longitudinal portions of the work by directing a cluster of converging radiant heat rays in said place of heating about the periphery of the work in such a manner that the rays overlap at the peripheral surface of the work so as to heat saturate successive longitudinal portions of the work substantially uniformly about the entire periphery thereof to a desired high temperature to anneal the work before it leaves the place of heating, producing the radiant heat rays by combustion of fuel at a number of regions at close range to the work in such a manner that flame impingement of the work is avoided and said radiant

heating of the work will be augmented by convection heating effected by the high temperature combustion gases which completely envelop the work and sweep at a relatively high velocity over the peripheral surface thereof and discharge into the atmosphere at the regions at which the work enters and leaves the place of heating, the high temperature combustion gases discharged into the atmosphere at the region at which the work leaves the place of heating enveloping the work at a vicinity outside the place of heating immediately adjacent to such region, rapidly cooling successive longitudinal portions of the work immediately upon leaving the place of heating by applying a quenching medium thereto at said vicinity at which the work is enveloped by the high temperature combustion gases, and passing the work continuously through the place of heating.

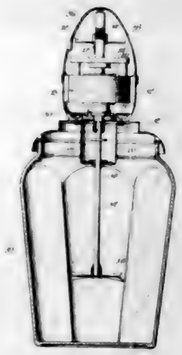
2,529,690
HEATING APPARATUS
Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application June 29, 1945, Serial No. 602,323
24 Claims. (Cl. 263—3)



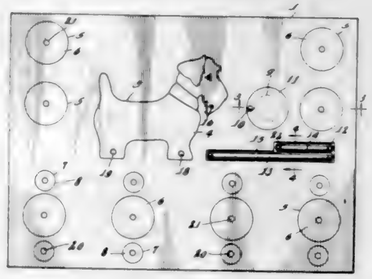
6. Apparatus for heating work of elongated extent including a furnace comprising structure forming a refractory walled chamber, a wall of refractory material at each end of said chamber having an aperture therein, said apertures serving as entrance and exit openings at opposite ends of the furnace for the work and through which heated gases are discharged from the chamber about the work when the latter passes through the chamber, a hollow manifold at each end of the furnace adjacent to said end walls, each of said manifolds having inlet and outlet openings for circulating a coolant therethrough, said structure including a number of rows of burners comprising blocks of refractory material extending lengthwise of said chamber between the entrance and exit openings, the blocks in said rows being in abutting relation and the end blocks in each of said rows being in abutting relation with the end walls, the inner face of each burner forming a part of the refractory lining for said chamber and serving as an independent source of radiant heat, and means to supply gaseous fuel individually to each burner for combustion at the inner face thereof to heat the latter to incandescence.

2,529,691
CHURN
Alvin W. Holstein and Donald F. McCarron, St. Louis, Mo., assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application August 17, 1948, Serial No. 44,778
8 Claims. (Cl. 259—99)

1. In an electric churn of the character disclosed, an electric motor, an impeller, and an operative connection between said motor and said impeller comprising a tubular shaft through the armature of said motor and a rod depending from the lower end of said tubular shaft, said rod having oppositely spiraled grooves with return portions at the upper and lower ends thereof, and a connecting element between said tubular shaft and said rod having a projection entering said grooves.



2,529,692
KNOCKDOWN WHEELED TOY
Lydia M. Holmes, St. Augustine, Fla.
Application November 5, 1945, Serial No. 626,689
2 Claims. (Cl. 46—22)

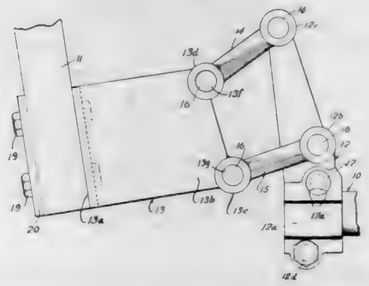


2. A toy device of the character described including: a front board having a plurality of openings of the shape of toy parts, at least one of said openings having the outline of an animal, others of said openings being of the size and shape of a wheel, and others of said openings being of the size and shape of a spacer; a rigid non-frangible backing board immovably secured to the front board and forming a permanent bottom for each of said openings so that toy parts may be removed from and replaced in said openings as desired; a toy piece of the peripheral outline of said animal, removably mounted in said one of the openings; a wheel part removably mounted in each of the wheel openings; and a spacer part removably mounted in each of the spacer openings, said toy piece, wheels and spacers being of such size and shape as each to fit one of said openings, whereby said toy piece, wheels and spacers may be stored in said toy device and removed when desired for assembling into a toy.

2,529,693
MUSICAL INSTRUMENT
Hal Horne, New York, N. Y.
Application May 9, 1946, Serial No. 668,385
5 Claims. (Cl. 46—182)

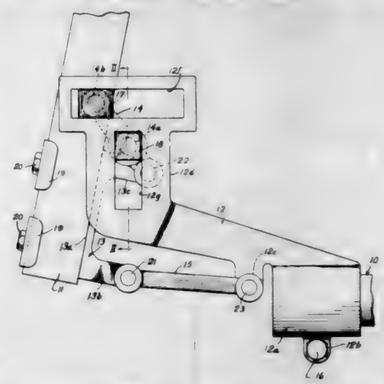
1. A sound-modifying instrument which has a hollow body which comprises two shells, said shells having abutting edge-flanges, said hollow body having an inlet mouth-portion at its front end, said hollow body having a front to rear longitudinal axis, each said shell having a respective head at its respective edge-flange, each said head being located rearwardly of said mouth-portion and forwardly of the rear end of said body, said heads extending transversely in respective opposed directions from the respective shells, each said shell having a respective edge-portion which abuts the inner face of the head of the other shell, said heads being located on a line extending laterally relative to said longitudinal axis, said hollow body having transverse clamping means which hold said edge-flanges in abutting relation, said shells being transversely vibratory in a zone which is located rearwardly of said transverse clamping means and said heads, said transverse clamping means being located rearwardly of said mouth-portion and forwardly of said rear end of said body.

2,529,694
PICKER STICK LINKAGE
George H. Hufferd, Shaker Heights, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application July 27, 1948, Serial No. 40,894
5 Claims. (Cl. 139—149)



1. A linkage for controlling the movement of a picker stick of a loom comprising a primary bracket adapted for securement to the rock shaft of the loom, said primary bracket defining a pair of vertically spaced pivot bearings overlying the end of said rock shaft, a secondary bracket of generally U-shaped configuration having its base portion adapted for securement to a picker stick and disposed with the arm portions thereof projecting toward said primary bracket, said arm portions of said secondary bracket being sufficiently laterally spaced to straddle said primary bracket, a first pair of aligned pivot bearings respectively formed in the lower part of said arm portion, a second pair of aligned pivot bearings respectively formed in the upper part of said arm portions, a pair of first links pivotally connected between the lower pivot bearing of said primary bracket and said lower pivot bearings of said secondary bracket, and a pair of second links pivotally connected between the upper pivot bearing of said primary bracket and said upper pivot bearings of said secondary bracket, said pairs of links being constructed and arranged to control the movements of said picker stick to shift the shuttle-engaging portion thereof along a substantially straight line path.

2,529,695
PICKER STICK SLIDE LINKAGE
George H. Hufferd, Shaker Heights, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application July 27, 1948, Serial No. 40,895
6 Claims. (Cl. 139—149)

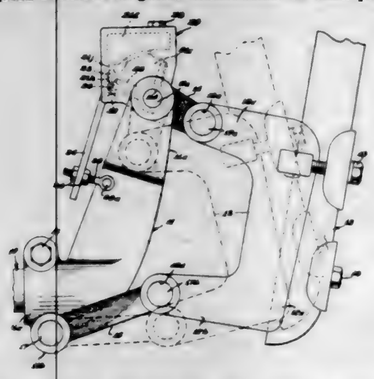


1. A linkage for controlling the movement of a picker stick of a loom comprising bracket means adapted for rigid securement to a picker stick, a support bracket adapted for fixed mounting on a loom rock shaft, said support bracket defining a pair of angularly disposed slide tracks, slide blocks respectively disposed in said slide tracks, and a link pivotally secured to both said slide blocks and to said bracket means.

2,529,696
HYDRAULIC PICKER STICK CHECK
George H. Hufferd, Cleveland, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application September 24, 1948, Serial No. 50,950
14 Claims. (Cl. 139—161)

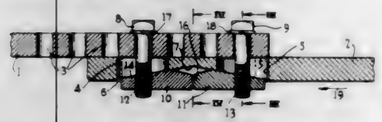
1. In a linkage for controlling the movement of a picker stick of a fly shuttle loom having first and second linkage members pivotally connected and relatively angularly shiftable as a function of the movement of the picker stick, the improvements comprising a housing defining an hydraulic chamber secured to said first linkage member, a piston vane cooperating with said hydraulic chamber and angularly movable therein, and means connecting said piston vane to said second linkage member, whereby relative pivotal movement of said first and second linkage members produces an angular shifting of said piston in said hydraulic chamber, said hydraulic cham-

ber being constructed and arranged to yieldingly oppose relative angular movement of said piston



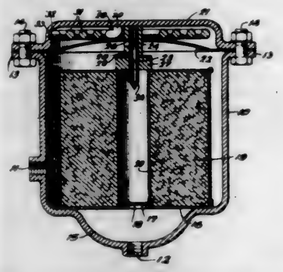
vane by fluid checking action, thereby checking the movements of said picker stick.

2,529,697
JOINT
Samuel P. Hull, Wilton, Conn.
Application January 30, 1948, Serial No. 5,449
3 Claims. (Cl. 287—58)



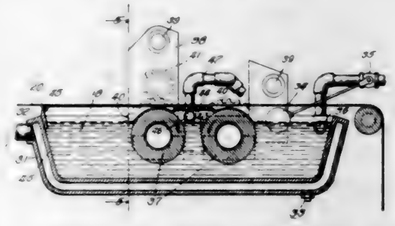
2. In an adjustable joint, including, in combination: a first member; a second member, bolts passing through both members; nuts on each bolt, one of said nuts and one of the members abutting along a face inclined to the longitudinal axis of the members and another of said nuts and the said one member abutting along a face inclined to the longitudinal axis of the members and to the other inclined face whereby a longitudinal movement of a member relative to the other member tightens the grip of one or the other bolt and nut.

2,529,698
FILTER APPARATUS
Earl T. Julius, Skokie, Ill.
Application July 13, 1946, Serial No. 683,472
2 Claims. (Cl. 210—183)



1. A filter adapted for the treating of oil, comprising a casing providing a filter chamber open at its top, a head casing recessed on its lower side to provide a head chamber above the filter chamber, means for releasably securing said casing members together, a filter cartridge in said filter chamber provided with a vertical central passage, means for introducing liquid into said chamber about the exterior of said cartridge, means communicating with the lower end of said central passage for withdrawing liquid, a closure for the upper end of said passage and having an aperture therethrough, a tube extending through said aperture and upwardly into said head chamber, said tube having a laterally-opening port, a sleeve rotatably mounted on said tube and having an inlet opening alignable with the port of said tube, and a temperature-responsive coil member having one end anchored to said head casing and the other end anchored to said sleeve for rotating said sleeve when the temperature of the incoming liquid reaches a predetermined temperature and causes an expansion of said temperature-responsive coil, said sleeve being removable from said tube and with said head casing when the head casing is separated from said first-mentioned casing.

2,529,699
APPARATUS FOR COATING PAPER WITH CARBON WAX
John Lach, Chicago, Ill., assignor to Uarco Incorporated, a corporation of Illinois
Application September 12, 1947, Serial No. 773,583
4 Claims. (Cl. 91—30)

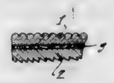


1. Apparatus for coating paper with carbon wax comprising: a pan for holding a quantity of liquid wax; means for maintaining the liquid wax in said pan at a temperature above room temperature; a pair of adjacent driven rolls dipping into the wax and rotating in opposite directions; a plate mounted between said rolls and closely adjacent thereto so that wax will be carried by the rolls to the upper side of said plate and a ridge of wax will be maintained on the plate above the tops of the rolls; and means for drawing a web of paper above the tops of the rolls and into contact with the ridge of wax, said web traveling in timed relation to the movement of the rolls.

2,529,700
METHOD OF ELECTROLYTICALLY PRODUCING ZINC OF HIGH PURITY
Sherwin Pope Lowe, George William Long, Kenneth William Downes, and George Henry Kent, Flin Flon, Manitoba, Canada, assignors to Hudson Bay Mining and Smelting Co. Limited, Winnipeg, Manitoba, Canada
No Drawing. Application August 1, 1946, Serial No. 687,707
9 Claims. (Cl. 204—119)

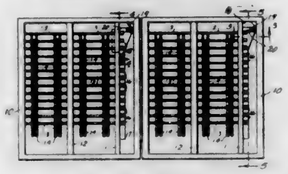
1. The method of electrolytically refining zinc to a high purity from a zinc sulphate electrolyte containing at least one of the impurities, lead, copper, cadmium and iron, to reduce at least the lead content of the zinc deposited, which comprises adjusting the pH of the electrolyte to a state of substantial equilibrium neutrality, said neutrality being a pH of about 5.1 to 5.5, adding to the electrolyte a stable aldehyde selected from the group consisting of formaldehyde, acetaldehyde, propionaldehyde, n-butyraldehyde, and 2-ethylbutyraldehyde, in an amount sufficient to reduce the amounts of said impurities in the zinc which is deposited by an amount greater than the reduction in such impurities incident to electrolysis in the absence of such aldehyde, meanwhile maintaining said electrolyte substantially free of nitrogen containing compounds, and passing electric current from an impure zinc anode containing at least one of said impurities to a cathode through said electrolyte containing said aldehyde, to deposite zinc of high purity.

2,529,701
REAR PROJECTION VIEWING SCREEN
Ioury G. Maloff, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 13, 1947, Serial No. 747,620
6 Claims. (Cl. 88—28.93)



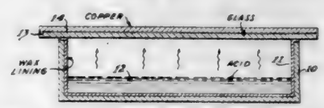
1. A rear view projection screen comprising a laminated structure of two substantially flat transparent outer sections and an interlayer sheet integrally bonded therewith, one of said sections having a Fresnel type lens of about 50 lines per inch formed on its outer surface, the other of said sections having about 100 parallelly arranged vertical ribs per inch formed on its outer surface, and said interlayer comprising a sheet of normally transparent material having an index of refraction approximately the same as that of said sections and having incorporated therein about 14.4 per cent of translucent silica of colloidal fineness whereby said screen has a light transmission value of about 84 per cent.

2,529,702
FOLDING CARD FILE
Ross D. Miller, Denver, Colo.
Application October 24, 1947, Serial No. 781,785
5 Claims. (Cl. 40—102)



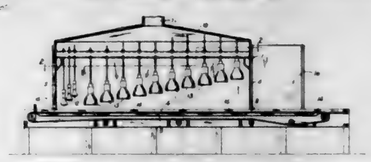
1. A book-type card file of the character described comprising a pair of hingedly-associated panels closable into marginally-registered superposition and separable into coplanar relation of their inner meeting faces, shallow compartments longitudinally disposed within and opening through the inner meeting faces of said panels, exposable, upon separation of the latter, spacedly-parallel, like rods journaled for independent rotation in laterally traversing relation with said compartments, card-mounting clips fixed to and radially of said rods within certain of said compartments to nest in overlapping succession wholly therewithin at corresponding rotational limits of their supporting rods, and means wholly within and shiftable longitudinally of a panel side compartment for the selective rotation of said rods.

2,529,703
PRODUCTION OF LOW REFLECTANCE SKELETONIZED SURFACE ON GLASS
Frederick H. Nicoll and Ferd E. Williams, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Original application May 28, 1943, Serial No. 488,938. Divided and this application October 8, 1946, Serial No. 701,903
6 Claims. (Cl. 41—42)



3. The method of reducing the index of refraction of glass which includes the steps of exposing said glass to vapor emanating from a solution of 45 volume % of ethylene glycol and 55 volume % of 1% hydrofluoric acid, and continuing said treatment until a predetermined interference color is observed when the surface of said glass is observed in white light.

2,529,704
METHOD OF DRYING AMMUNITION PRIMERS
Fredrich Olsen, Alton, Ill., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware
Application February 24, 1944, Serial No. 523,693
13 Claims. (Cl. 34—4)

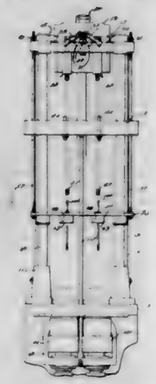


1. In the art of making ammunition primers, the process comprising, providing primer cups loaded with wet priming composition, arranging the loaded cups in a single layer, passing the loaded cups through a zone irradiated with near infra red light of an intensity such as to elevate the temperature of the primers immediately to at least 70° C. and maintaining cups under the near infra red irradiation of intensity such as to maintain but not substantially exceed said initial temperature for at least three minutes.

2,529,705
BROACHING MACHINE
Denes Pataki, Detroit, and Benedict Welte, Lake Orion, Mich., assignors to Colonial Broach Company, Warren Township, Mich., a corporation of Delaware
Application June 6, 1947, Serial No. 753,006
11 Claims. (Cl. 90—33)

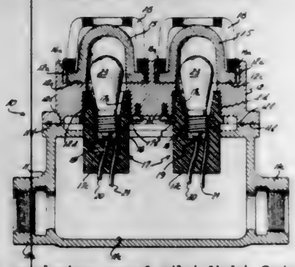
1. In a machine for broaching an opening in a workpiece, a work support adapted to sustain the work against the force exerted by the broaching operation and having an opening to permit the passage of the broach, a reciprocating broach handling chuck located on one side of the work support, a broach pulling chuck located on the

opposite side of the support for receiving the broach from the broach handling chuck and pulling it through the work to effect the broaching stroke, a reciprocating slide, a releasable connection between the slide and the broach handling chuck, adapted to permit the broach handling



chuck to advance with the broach during the broaching stroke independently of the slide, and means independent of the broach for guiding the handling chuck throughout its reciprocating movement to maintain the same in alignment with the opening in the work support.

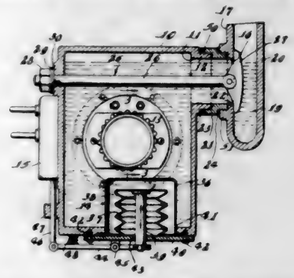
2,529,706
EXPLOSION-PROOF PILOT LIGHT
William C. Pearson, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application January 13, 1949, Serial No. 70,631
3 Claims. (Cl. 177—329)



1. An explosion-proof pilot light fixture comprising a substantially rectangular shell-like body portion defining a pair of concentric internally threaded bores in an upper part thereof, a socket unit comprising a molded plastic body having a receptacle shell and conductor wires integrally molded therein, said socket unit body defining an externally threaded cylindrical portion for removable assembly in one of said bores of said body and a light transmitting enclosure unit removably received in the other of said bores of said body.

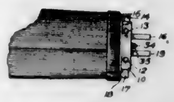
2,529,707
WATER HEATER FOR INTERNAL-COMBUSTION ENGINES AND THE LIKE
Bert H. Pierce, Chicago, Ill.
Application November 12, 1946, Serial No. 709,137
8 Claims. (Cl. 123—142.5)

4. A water heater of the character described for heating the water in the cooling system of an internal combustion engine, said heater comprising: a chamber normally substantially filled with water and having a single opening therein for registering with a similar opening in the



engine block; a securing means adapted to extend from the inner surface of said engine block opening through a wall of said chamber for holding the chamber tightly against said engine block opening; and a heating means for heating the water within the chamber.

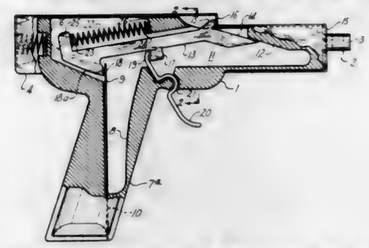
2,529,708
TROUSER CUFF SHAPER
Samuel Schussel, Jamaica, N. Y.
Application August 19, 1949, Serial No. 111,273
3 Claims. (Cl. 223—61)



3. A trousers cuff spreader which comprises a housing, a pair of slide plates disposed against the adjacent front and rear walls of the housing and having fingers extending outwardly therefrom to be inserted into the cuff end of a trouser leg, a spring connected between the slide plates and tending to keep them in a normal retracted inoperative position, rack elements on said slide plates, a pair of aligned pivoted plates disposed between the slide plates and having dependent pawls thereon to engage the respective rack elements and hold the slide plates in any extended position, a spring connecting the pivoted pawl-carrying plates and tending to press the pawls into engagement with the rack elements, a release bar disposed to engage the free ends of the pivoted plates when operated, a spring engaging the release bar to hold it in retracted position, and a head on said bar to be engaged by the finger of the operator to press it into contact with the free ends of said pivoted plates to release the pawls from the rack elements and allow the spring connecting the slide plates to restore them to normal inoperative position.

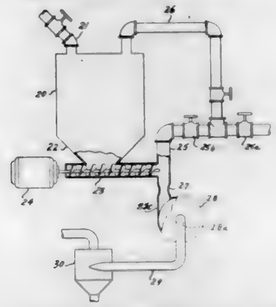
2,529,709
TOY GUN
Joseph A. Sigg, Pittsburgh, Pa.
Application May 28, 1946, Serial No. 672,806
4 Claims. (Cl. 46—191)

1. In a toy gun having a frame member shaped to form the chamber, barrel and grip, of a housing mounted thereon for reciprocatory movement relative to the barrel, said housing having a spring normally biasing the same into one position relative to the frame and barrel, an actuator for displacing the housing in the direction to compress the spring and a trigger mechanism for said actuator, a spring normally biasing said actuator in the direction to hold the trigger in



the inactive position, and cam means in the path of movement of the actuator for tripping the latter when the housing has been advanced to its foremost position, whereby the two springs mentioned above retract the actuator to its normal position.

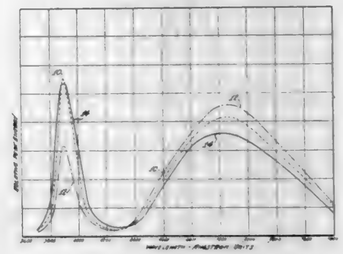
2,529,710
METHOD OF STERILIZING
Alamjit D. Singh, Chicago, Ill., assignor to Institute of Gas Technology, Chicago, Ill., a corporation of Illinois
Application October 30, 1947, Serial No. 782,984
4 Claims. (Cl. 99—153)



1. A method of sterilizing corn meal which comprises feeding said corn meal into a confined space accessible to the traversing flow of a gas therethrough, flowing a gas through said space at a rate sufficient to fluidize said corn meal, maintaining the temperature within said space high enough to sterilize said corn meal, discharging corn meal from said space, forming the discharged corn meal into a suspension in a rapidly flowing gas under pressure and suddenly expanding the flowing gaseous suspension of corn meal to explosively shatter said corn meal whereby in the event of discoloration effected during said sterilizing step the color of the corn meal is improved.

2,529,711
METHOD OF MAKING A ZINC OXIDE PHOSPHOR
Arthur L. J. Smith, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application May 27, 1948, Serial No. 29,577
14 Claims. (Cl. 252—301.6)

14. The method of making zinc oxide phosphor comprising the steps of, firing zinc oxide at a temperature of at least 907° C. in a reducing atmosphere, firing the fired zinc oxide at a temperature of at least 907° C. in a substantially neutral atmosphere selected from the group consisting of an inert atmosphere and an atmosphere consisting essentially of an inert gas containing the equivalent of from 0% to 0.3% of oxygen, and cooling the twice fired material also in an atmosphere selected from said group.



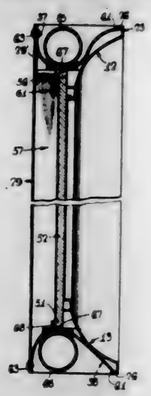
2,529,712
ORGANIC BONDED ABRASIVE PRODUCT
Ernest Douglas Teague, Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 8, 1948, Serial No. 37,513. In Great Britain September 30, 1947
7 Claims. (Cl. 51—298)

1. An abrasive article comprising abrasive grains bonded with a bond comprising from 50 volume percent to 95 volume percent of shellac, at least 50 percent of the remainder of the bond by volume being synthetic resin selected from the group consisting of phenol formaldehyde and glyptal and mixtures thereof, and said bond containing between 5 percent and 50 percent inclusive of nitroparaffin having between 2 and 4 carbon atoms by weight based on the synthetic resin.

2,529,713
PICTURE FRAME CONTAINING BED LIGHT AND INDIRECT LIGHT UNITS
Gerald Thurston, New York, N. Y., assignor to Lightolier Company, New York, N. Y., a corporation of New York
Application January 2, 1948, Serial No. 67
6 Claims. (Cl. 240—4)

1. An article of the character described comprising a substantially rectangular frame, a substantially concave trough shaped reflector mounted on said frame at the bottom thereof and transversely thereacross with the trough facing downwardly, a substantially concave trough shaped reflector mounted on said frame at the top thereof and transversely thereacross with the trough facing upwardly, a transparent plate mounted on said frame between the convex faces of said reflectors and supported thereby, each of said reflectors having a longitudinal slot therein with the bottom and top edges of said transparent plate being longitudinally aligned with the slots in said reflectors at the bottom and top of the frame respectively and in juxtaposition thereto whereby when a lamp is associated with each of said reflectors the bottom reflector will cast a downwardly directed light and the top

reflector will cast an upwardly directed light and the light from said lamps will pass through the



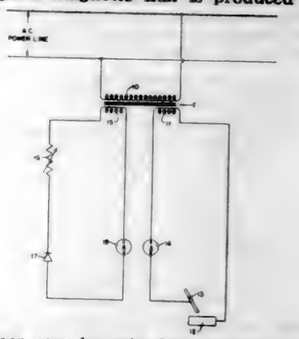
associated top and bottom edges of said transparent plate to illuminate the latter.

2,529,714
VENETIAN BLIND
Walter Turkowski, Hollywood, Ill.
Application May 26, 1947, Serial No. 750,555
8 Claims. (Cl. 160—166)

1. The combination with window blinds comprising two blinds, each consisting of a plurality of vertically suspended slats having means for turning adjustment about their lateral axis of a frame in which said blinds are mounted at their upper ends, said frame including end block members, rod members extending downwardly from each of said block members, and means extending therefrom for rigidly holding said slats in vertical position.

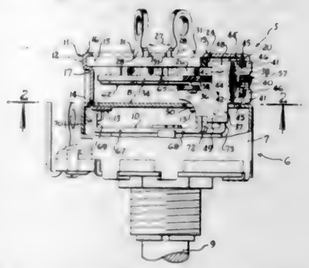
2,529,715
ARC WELDING METHOD AND APPARATUS
Joseph M. Tyrner, New York, N. Y., and Nelson E. Anderson, Scotch Plains, N. J., assignors to Air Reduction Company, Incorporated, a corporation of New York
Application September 30, 1948, Serial No. 51,924
4 Claims. (Cl. 315—276)

1. In an A. C. arc welding system in which the work and the electrode are connected to the secondary winding of a welding transformer, the method of eliminating harmful effects in the transformer which would otherwise be caused by the flux produced in the transformer core by the magnetomotive force created by any D. C. component of current flowing through said secondary winding as a result of partial current rectification in the arc, which comprises inducing an auxiliary alternating current from the primary winding of the transformer, rectifying such auxiliary alternating current, utilizing the resulting direct current to produce an additional magnetomotive force which opposes said first-named magnetomotive force, and adjusting the value of said additional magnetomotive force until substantially no magnetic flux is produced in the



transformer core by said first-named magnetomotive force.

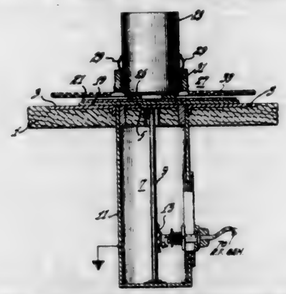
2,529,716
SNAP SWITCH
Adrian J. Vaksvik and Mervin B. Arisman, Elkhart, Ind., assignors to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana
Application July 8, 1948, Serial No. 37,724
13 Claims. (Cl. 200—67)



1. In an electrical control device of the character described: a substantially cup-shaped housing having side and end walls; switch mechanism in the housing including a switch arm; an actuator for said switch arm; a connection between the actuator and the housing side wall whereby the actuator is supported from the side wall for rocking motion about an axis parallel to the axis of the housing and directly adjacent to the housing side wall: an edge portion on said actuator directly adjacent to and facing the housing side wall and upon which the switch arm is fulcrumed for swinging motion about an axis parallel to the housing axis and directly adjacent to the housing side wall; and a toggle connection between the switch arm and the actuator by which rocking motion of the actuator effects swinging motion of the arm about said fulcrum with a snap action.

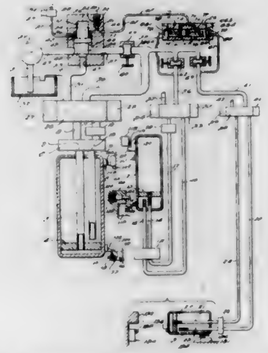
2,529,717
HEAT SEALING APPLICATOR WITH REMOVABLE ELECTRODE
Wiley D. Wenger, Riverton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 26, 1946, Serial No. 679,349
10 Claims. (Cl. 219—47)

1. An applicator for applying to a dielectric material simultaneous pressure and a high frequency electric field from the oscillations generated by a high frequency oscillation generator having high potential and ground potential terminals, said applicator comprising a grounded base plate coupled to said ground potential terminal, a high potential electrode coupled to said high potential terminal and having its working surface substantially in the plane of said base plate, a low potential electrode adapted to be capacitively coupled with said high potential elec-



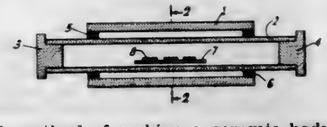
trode with said material between said electrodes, and a conductive flange, said low potential electrode and said conductive flange being removably coupled mechanically and electrically whereby said low potential electrode is removable from said flange, said conductive flange being positionable on said low potential electrode to capacitively couple with said base plate when said high and low potential electrodes are brought into capacitive relationship.

2,529,718
BROACHING MACHINE
Benedict Welte, Lake Orion Township, Oakland County, Mich., assignor to Colonial Broach Company, Detroit, Mich., a corporation of Delaware
Application August 21, 1944, Serial No. 550,330
10 Claims. (Cl. 90—33)



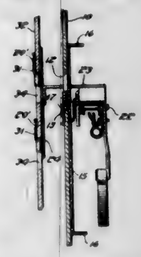
1. In a hydraulic shuttle pull-broaching machine, a double-acting positive displacement motor for operating a movable worktable between a retracted and a broaching position, a double-acting positive displacement motor for operating a broach-handling slide between a retracted and an advanced position, a double-acting positive displacement motor for operating a broaching ram through a broaching and a broach-return stroke, a separate four-way reversing valve for controlling admission of operating liquid to each motor, separate means for shifting each four-way valve, each said means including a pair of solenoids, energization of one of which causes a shift of the valve in one direction and energization of the other causes a shift in the opposite direction, and automatic means controlled by the position of the motors for energizing said solenoids one at a time in sequence to produce a complete cycle of operations including an advance of the table to broaching position, an advance of the broach-handling slide, a broaching stroke of the ram, a retraction of the table, a broach-return stroke of the ram, and a retraction of the broach-handling slide, said last-named means including automatic means operable to return the broach-handling slide to its fully-returned position before any advance of the table, automatic means to return the ram to fully-returned position before any advance of the broach-handling slide, automatic means to prevent advance movement of the broach-handling cylinder if the table is not fully advanced and automatic means to prevent a broaching stroke of the ram if the table is not fully advanced.

2,529,719
HIGH DIELECTRIC MATERIALS AND METHOD OF PRODUCING THEM
Chandler Wentworth, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 20, 1947, Serial No. 775,189
15 Claims. (Cl. 25—157)



1. A method of making a ceramic body characterized by having a dielectric constant higher than 10,000 comprising firing a molded body comprising a mixture of barium and strontium titanates in a reducing atmosphere for from about 5 minutes to about 1 hour at a temperature of 2,300°–2,700° F.

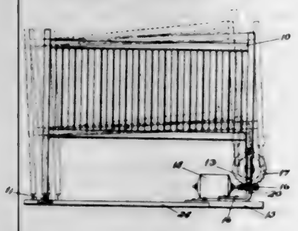
2,529,720
MOUNTING MEANS FOR OSCILLATORY DISPLAY DEVICES
Joseph S. Yarrow, Litchfield County, Conn.
Application December 3, 1948, Serial No. 63,323
10 Claims. (Cl. 40—52)



1. A display device comprising a stationary vertical panel provided with rectangular holes having horizontal walls therethrough; motor means including a framework disposed against the rear face of the panel; clips each perma-

nently secured to said means and having a forwardly open channel portion with the flanges thereof disposed against the vertical walls of each of said holes and having a tongue in engagement with the horizontal wall and the front marginal portion of the panel.

2,529,721
CRIB AND MECHANISM FOR OSCILLATING THE SAME
Sydney N. Baruch, New York, N. Y., assignor to Norton Patents Corporation, New York, N. Y., a corporation of New York
Application March 21, 1949, Serial No. 82,662
3 Claims. (Cl. 5—109)

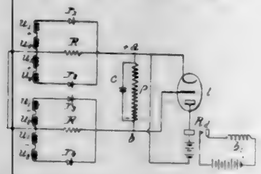


1. A device for rocking a crib or the like comprising means for guiding one end of said crib for reciprocation, and means for causing the opposite end of said crib to move through a path generally defining a complete circle.

2,529,722
BUFFING AND POLISHING COMPOSITIONS AND METHOD OF PREPARATION
Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 27, 1948, Serial No. 46,563
10 Claims. (Cl. 51—305)

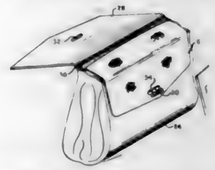
1. A buffing and polishing composition comprising a mass of binder material and comminuted abrasive material distributed therethrough, said abrasive material consisting essentially of multi-sized particles derived by grinding tailings of conglomerated copper ore.

2,529,723
DEVICE FOR MEASURING AND COMPARING FUNCTIONS
André Chevallier, Paris, France, assignor to Société Union D'Electricite, Paris (Seine), France, a society of France
Application April 5, 1945, Serial No. 586,778
In France April 14, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 14, 1962
2 Claims. (Cl. 172—245)



1. A phase comparator for two sinusoidal voltages both of the same frequency which comprises, in combination, two full-wave rectifier units including each at least one resistance and two contact rectifiers having each its output connected with the same end of said resistance so as to pass both of the rectified currents from said rectifiers respectively in the same direction through said resistance, voltage limiting means for transforming each of said sinusoidal voltages into a sinusoidal voltage in phase therewith but of constant amplitude, means for impressing on the two rectifiers of one rectifier unit a current proportional to the sum of said constant amplitude voltages and on the two rectifiers of the other rectifier unit a current proportional to the difference of said last mentioned voltages, one of the rectifiers of each rectifier unit being arranged to pass one alternation and the other the other alternation of the current imparted to said unit, one of said resistances having one end thereof connected with one end of the other, the two other ends of said resistances being connected to corresponding sides of said rectifiers so as to obtain across the ends of the whole of said two resistances in series a voltage equal to the difference of the respective voltages supplied by said rectifier units, an output circuit connected across said terminals and indicator means in said output circuit for giving the value of the constant voltage corresponding to the power factor in said output circuit.

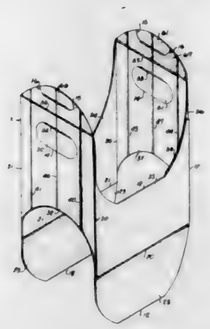
2,529,724
CARRYING KIT REMOVABLY INSERTABLE INTO A PURSE OR THE LIKE
Sylvia T. Conwiser, New York, N. Y.
Application March 21, 1947, Serial No. 736,229
2 Claims. (Cl. 150—34)



2. A carrying kit adapted to be removably inserted into a purse having a closing flap, said kit comprising a body having side and end walls, a closing flap secured to one of said side walls and manipulatable independently of said purse flap, and a compartment on the exterior surface of the side wall to which said closing flap is secured, said compartment being rendered accessible by opening movement of said purse flap alone, and rendered inaccessible by opening movement of said purse and kit flaps together, all of said side and end walls and said kit closing flap including expandable folds, said kit thus being expandable in more than one direction so as to be conformable to the interior of a number of different sized purses.

2,529,725
BOTTLE CARTON
Grover C. Currie, Charlotte, N. C., assignor to Dacam Corporation, Charlotte, N. C., a corporation of North Carolina
Application September 10, 1948, Serial No. 48,624
3 Claims. (Cl. 229—52)

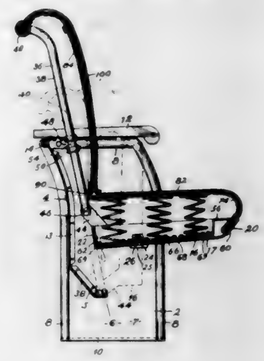
1. A paper carton comprising a pair of side walls and a pair of end walls with one of the end walls having a flap extending therefrom adapted to be secured to one end of one of the side walls and each of the side walls having downwardly depending bottom flaps hingedly secured thereto and each of the end walls having a finger opening therein for the reception of the fingers of a hand for carrying the carton filled with bottles, each of the side walls having cut away portions at their upper edges conforming in contour to the contour of the lower edges of the bottom flaps and each of the end walls having a convex upper surface and a concave lower surface of the same curvature, the top portions of the end walls being scored transversely for folding down onto the inside surface of the end walls, the upper portions of the end walls having glue spots therein for securing the folded down upper portion of the end walls, the extreme upper portion of the end walls being scored transversely and having cut portions extending from the ends of the last



named score line to the upper edges of the end walls, whereby the extreme upper end of each end wall can be folded into the finger openings in the end walls, each end wall being scored vertically medially thereof and being scored at the junction point with the side walls and each end wall also being scored vertically a short distance away from each hinge line scoring at the ends of the side walls to thus provide beveled corner portions to the carton when filled with bottles having a collective overall dimension greater than the length of the side walls, the medial vertical score lines of the end walls allowing outward bulging of the end walls to thus allow the carton to be folded flat with the two side walls having their inner surfaces disposed against each other and the inner surfaces of the end walls being disposed against each other in folded position.

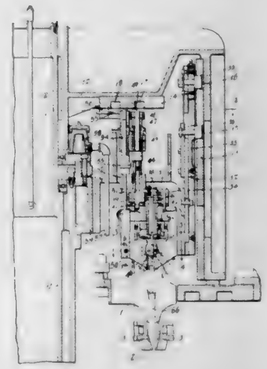
2,529,726
FOLDING CHAIR
John M. Dorton, Bonner Springs, Kans.
Application August 23, 1946, Serial No. 692,432
4 Claims. (Cl. 155—84)

1. A chair comprising a pair of spaced standards, a sheet metal member uniting the standards and provided at its bottom portion with a supporting element, a seat structure extending between the standards and operably connected thereto intermediate its front and rear ends and adapted to be swung upward or downward, and a cushioned back structure operably connected to the standards and the rear portion of the seat structure adapted to move downward with the rear portion of the seat structure and rest upon



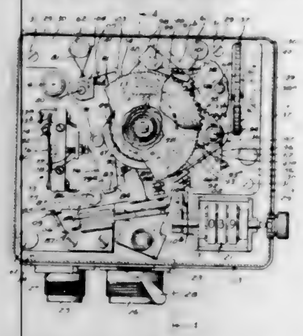
the ledge when the front end of the seat structure is swung upward.

2,529,727
SEEDING APPARATUS
Guy A. Dunn, Oakland, Calif., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York
Application September 15, 1944, Serial No. 554,316
7 Claims. (Cl. 146—40)



1. In an apparatus of the class described, the combination of a plate, coring knives mounted in the plate, means supported by the plate providing keys extending in the seed pods of the fruit, means for supporting fruit halves on the plate, means for rotating the coring knives to cut the seed pods from the fruit halves, means operative to hold the seed pod sections from movement away from the plate and operative in conjunction with the key means to prevent shifting of the seed pod sections with relation to the plate, and means operative while the seed pods are held in position for separating the fruit halves from the plates and from the seed pod sections.

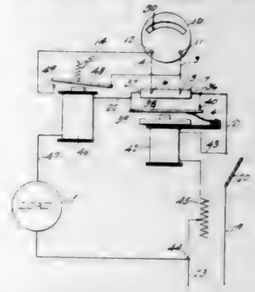
2,529,728
INTERVALOMETER
Leonard W. Gacki, Jamaica, N. Y., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application January 31, 1944, Serial No. 520,575
10 Claims. (Cl. 161—1)



1. In a device for serially effecting impulses at selective predetermined intervals, the combination of, a motor, a member constantly rotated by said motor, a rotatable element, means cyclically operated by said member for rotating said element a predetermined amount for every revolution of said member, selector means for setting said element relative to said member in any of a plurality of positions to predetermine the period of total movement of said element, a second member constantly rotated by said motor, a switch, and releasable means for opening and closing said switch, said releasable means including an arm normally held in switch opening position, said arm including a follower which engages the periphery of said second member which holds said follower and accordingly said arm in switch opening position during a major portion of the rotation of said second member, said second member including a portion which when juxtaposed to said arm member allows switch closing movement of said arm, said last-mentioned means also including a lever which engages said arm to hold said arm in switch opening position, said lever having a portion engageable by said rotatable element at the end of its predetermined period of movement for swinging said lever out of engagement with said arm to release said arm for switch closing operation when said arm is juxtaposed to said portion of said second member.

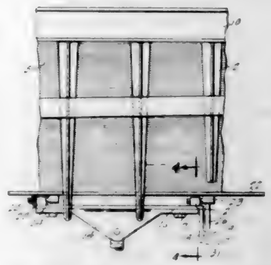
2,529,729
MEANS FOR MAINTAINING ACCURACY OF PRECISION AMMETERS
Roy M. Hanson, Oakland, Calif.
Application February 18, 1946, Serial No. 648,451
2 Claims. (Cl. 171—95)

1. Means for maintaining the accuracy of an ammeter against initial surges and overloads comprising; a main circuit including a main line switch and a main line shunt and a load; an ammeter biased across said main line shunt, a normally closed auxiliary shunt biased across said main line shunt; an electro-magnetic normally open short circuiting switch connected across said ammeter with the electromagnet in series circuit from one side of said main circuit through said main line shunt and auxiliary shunt in parallel and through the load to the other side of the main circuit to short out the ammeter under excessive loads of extended durations; a time-delay electromagnet for opening said auxiliary shunt for initial surge following a brief time delay period after closing the main line switch and connected across the main circuit to one side of the main and auxiliary shunts, and to the other side of the main circuit, whereby, when the main



line switch is closed, the current flows through the main line shunt and auxiliary shunt in parallel to decrease the current flow through the ammeter, with the time-delay electromagnet opening the auxiliary shunt following the initial surge of current.

2,529,730
MEANS FOR LEVELING LABELS TRANSVERSELY FOR LABELING
Frank Henares, San Leandro, and Carlos Gallegos, Decoto, Calif.
Application May 7, 1948, Serial No. 25,568
10 Claims. (Cl. 271—61)

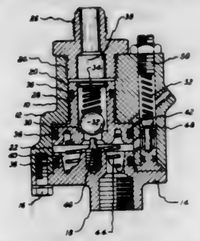


1. In a labeling machine having guides for a stack of labels and a label plate and means for leveling said label plate longitudinally to compensate for variations in thickness of the respective ends of the top surface of the stack; a label table mounted on said label plate, and inclinable adjusting means cooperative between said label table and label plate for adjusting transversely the level of the top one of a stack of labels supported on said label table, to compensate for variations in thickness of the respective sides of the labels.

2,529,731
DEBOOSTER
Charles Hollerith, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application September 20, 1946, Serial No. 698,166
5 Claims. (Cl. 137—153)

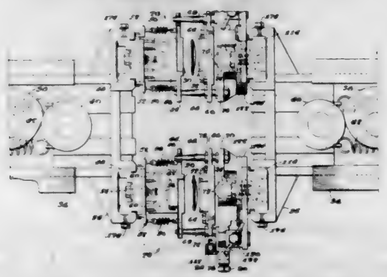
1. A compact minimum stroke fluid pressure debooster comprising a body having merging cylindrical chambers of different diameter, a

stepped piston supported in said chambers for limited axial movement, an axial passage through said piston, a valve seat defined in said passage between the high and low pressure sides of said piston, a check valve on the high pressure side of said piston engaging with said seat, said piston dividing said chamber into high and low pressure chambers with the effective pressure area on the low pressure side of said piston on one side of said seat being greater than the effective pressure area on the high pressure side of said piston on the other side of said seat, unseating means for said check valve constructed and arranged to engage with said valve and lift it from its seat to throttle



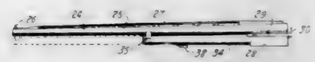
fluid pressure between said high and low pressure chambers upon movement of said piston by high pressure in one direction, fluid pressure throttled by said valve reacting against the greater effective area of said piston on the low pressure side of said seat to move said piston in the opposite direction to regulate and control the throttling action of fluid pressure, the essential stroke of said piston being established by the closed and maximum unseated positions of said valve, and spring means acting upon said piston for continuously urging the piston in a direction away from said unseating means, whereby said check valve is normally closed.

2,529,732
CONTAINER FORMING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application April 15, 1947, Serial No. 741,642
17 Claims. (Cl. 154—1)



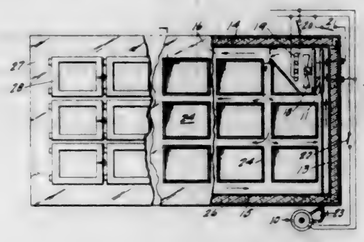
1. In a container forming machine, in combination, a pair of cooperating sealing members, one of said sealing members being supported for shifting movement in any direction in a plane substantially parallel to the other sealing member, and means associated with said other sealing member and engageable with said first member for causing the latter to be shifted into alignment therewith during the sealing operation, and means for supporting said one sealing member including a backing member, and means for yieldably retaining the sealing member in slidable engagement with the backing member to permit said shifting movement.

2,529,733
FIREARM
Rufus A. King, Wichita Falls, Tex.
Application December 26, 1947, Serial No. 793,851
1 Claim. (Cl. 42—40)



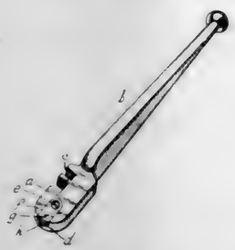
A single barrel assembly for a firearm of the tilting breech type having a frame for receiving and supporting a superimposed double barrel assembly and a cooperating fore-stock including, a full length upper barrel, a lower barrel member underlying and secured to the inner portion of the upper barrel, the barrel member being of such length as to be disposed substantially wholly in the frame and fore-stock with its outer end terminating at the medial portion of said upper barrel when the barrel assembly is mounted in said frame and said fore-stock attached thereto, whereby the weight and feel of the breech end of the double barrel assembly is obtained and the cross-wind resistance appreciably reduced.

2,529,734
DEFROSTING SYSTEM IN REFRIGERATED LOCKER
Ralph E. Lehmann, Felton, Calif.
Application February 18, 1947, Serial No. 729,265
5 Claims. (Cl. 62—102)



2. A refrigerator comprising; a cabinet having top, bottom, front, back and end walls; a plurality of locker cans sealed to said front wall and opening therethrough and extending rearwardly in spaced relation to said rear wall and peripherally spaced from each other and from the top, bottom and end walls to provide circulatory paths about each locker can; and a door for each locker can and including sealing means; one of said locker cans having openings for inlet and discharge of air and having a refrigerating unit therein including air circulating means, and also including heating means; and manual control means for selectively controlling said refrigerating unit and said heating means for refrigeration, and for rapid defrosting of the inside walls of the locker cans at will; said cabinet containing a supply of entrapped air at substantially atmospheric pressure for forced circulation about said refrigerating coils and heating means and said circulatory paths by said air circulating means.

2,529,735
GLASS CUTTER
Harry Martin, Cornbrook, Manchester, England
Application March 15, 1947, Serial No. 734,882
In Great Britain March 20, 1946
1 Claim. (Cl. 49—52)



An improved wheel glass cutter including a head provided with a handle extending therefrom, said head having on one side thereof an elongated recess of lesser width than the width of the head and whose opposed sides are generally parallel with each other and with the handle, an insert of the same general shape and size as the recess which is received in and which engages the sides of the recess with a relatively snug fit, cutter wheel, the inner surface of the outer section of the insert being cut away to form, with the opposed wall section of the recess, a housing for the cutter wheel, a pivot for the cutter wheel which is secured to the insert and which extends towards such wall section of the recess, a portion of the periphery of the wheel projecting from the housing, and a screw for securing the insert in the recess.

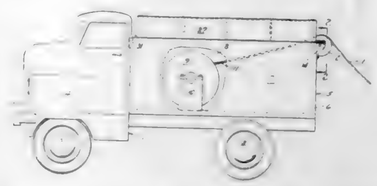
2,529,736
HETERODYNE FREQUENCY MODULATOR WITH DISTORTION COMPENSATION
Stephen W. Moulton, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 15, 1948, Serial No. 65,301
7 Claims. (Cl. 332—18)

1. In a heterodyne frequency-modulation system, a source of a signal of predetermined frequency, means for mixing said last-named signal with an input signal of modulated frequency to yield a third signal comprising a plurality of frequency components, at least one of which tends to be frequency-modulated in some degree in substantial accordance with the frequency modulation of said input signal, means for substantially reducing the tendency of said one component to be frequency-modulated, whereby there are imparted to a second of said components frequency variations according in some degree to the modulation of said input signal, the frequency of said last-named component also tending to vary as a function of the rate of change with time of the frequency of said modulated input signal, means for substantially reducing said last-named variation, said means comprising a passive electrical transducer included in the input circuit to said modulator and operative to distort said frequency-modulated input signal, and means for deriving an output signal which varies in frequency in accordance with the frequency variations of said second component.

2,529,737
COMBINATION DETACHABLE HANDLE AND CAN PUNCH
Edward M. Oliver and Benjamin F. Malherbe, Denver, Colo.
Application March 25, 1949, Serial No. 83,462
3 Claims. (Cl. 30—123)

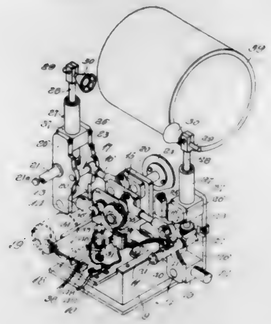
3. A combined can opener and can handle comprising: a pointed fang adapted to extend over the top of the can; a hook formed on said fang adapted to engage the bottom of the upper flange of the can; a handle portion formed on said fang which, when swung upwardly, will swing said fang downwardly into cutting engagement with the top of said can; and a flap hinged on the lower extremity of said handle portion and adapted to swing into engagement with the side of said can.

2,529,738
SPINDLE BAR MOUNTING BRACKET AND THE LIKE
Buford W. Olson, Minneapolis, Minn., assignor to Chas. Olson & Sons, Inc., Minneapolis, Minn., a corporation of Minnesota
Application December 2, 1949, Serial No. 130,642
7 Claims. (Cl. 280—1)



1. In combination with a truck body having a generally rectangular platform and laterally-spaced rigid side frame members and cable spool mounting means on said platform, a pair of co-operating socket-forming brackets secured to the rear end of said side frame members in opposed relationship, one of said sockets opening horizontally and the other thereof opening horizontally and upwardly, a spindle bar seated in said opposed sockets and displaceable axially with respect to one of said sockets and radially upwardly with respect to the other, an axially opening recess in the end of said spindle bar end seated in the upwardly opening socket, a restricted opening in the end wall of said last named socket axially aligned with the recess in said spindle bar, and an extensible and retractable lock pin mounted for sliding movements in the restricted opening of said bracket for movements into and out of said recess.

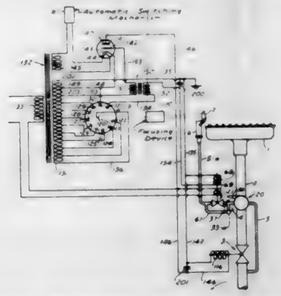
2,529,739
TIRE MAKING MACHINE
Conious E. Powers, Natchez, Miss.
Application May 13, 1949, Serial No. 93,083
4 Claims. (Cl. 154—9)



1. In a tire making machine a rotatable tire drum, a frame structure mounted adjacent said drum, a base plate slidably mounted with respect to said frame structure, a rock shaft mounted transversely of said frame structure, a base carried by said rock shaft above said frame structure and tiltable with respect thereto, a motor carried by said base, crankshaft journalling means supported by said base, a crankshaft system mounted in said crankshaft journalling means and driven by said motor, a tilting cam connected with said crankshaft system, a cam follower mounted on said frame in coplanar relation with said tilting cam whereby said base may be angularly shifted in position, vertically extending members pivotally mounted with respect to said rock shaft, connections between said crankshaft system and said vertically extending members, roller turning shafts journalled with respect to said vertically extending members, transversely extending roller spindles carried by said shafts, band rollers mounted on said spindles, said band rollers being displaceable linearly of said rotatable tire drum under control of said crankshaft system, and means carried by said vertically extending members for orienting said band rollers for compacting layers of fabric carried by said rotatable tire drum into a tire carcass.

2,529,740
SAFETY CONTROL SYSTEM FOR FLUID FUEL BURNERS
William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation of California
Application August 9, 1946, Serial No. 689,425
20 Claims. (Cl. 158—117.1)

1. In a fluid fuel control system: a main burner; an electrically operated main valve for controlling fuel flow to the main burner; a pilot burner; an electrically operated pilot burner valve for controlling fuel flow to the pilot burner; a photoelectric tube having a photo-sensitive cathode and adapted to be energized by an alternating current supply for rectifying the alternating current and supplying unidirectional current for operating said pilot burner valve, the flame of the pilot burner activating said cathode; supplementary means for supplying current to operate the



main valve; and control means energizable by the current operating the pilot burner valve, and when energized to control said supplementary means to pass current to operate said main valve.

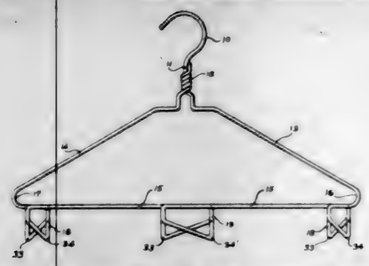
2,529,741
CONTROL MECHANISM FOR EPICYCLIC GEARBOXES
Glyn P. Roberts, Brewood, England
Application August 15, 1949, Serial No. 110,244
In Great Britain August 16, 1948
4 Claims. (Cl. 74—473)

1. Control mechanism for the selection of gears in an epicyclic gear-box by angular movement of a camshaft in the gear-box, comprising a gear-lever angularly movable about a fixed axis, an angularly movable shaft adapted to be coupled to the camshaft, gearing of different ratios, and means for selectively coupling the gear-lever to said shaft through said gearing whereby equal gear-selecting movements of the lever to opposite sides of a neutral position effect angular movements of said shaft and camshaft of different amplitudes.

2,529,742
GARMENT HANGER
Robert L. Robertson, Kansas City, Mo.
Application November 13, 1945, Serial No. 628,052
7 Claims. (Cl. 223—91)

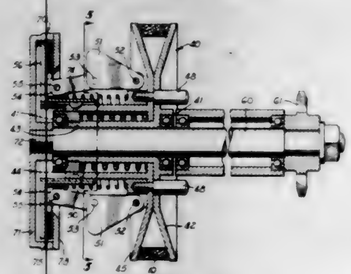
1. A garment hanger having a body portion having clips depending therefrom in fixed posi-

tion, said clips having pairs of opposed jaws having a normal tendency to engage with each other and a member of flexible sheet material folded



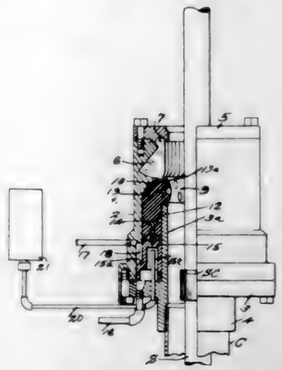
to provide a plurality of plies clamped between said jaws, said plies being separable at the lower edge of said member for insertion of a garment therebetween.

2,529,743
POWER TRANSMISSION
Esley F. Salsbury and Ford W. Harris, Los Angeles, Calif., assignors to Salsbury Corporation, a corporation of California
Application April 13, 1946, Serial No. 661,993
2 Claims. (Cl. 74—230.17)



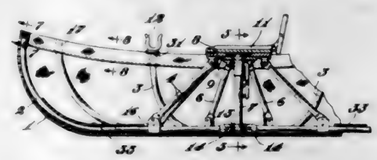
1. In a transmission, a pulley and clutch assembly through which power may be transmitted from a V-belt to a shaft comprising: a V-belt of trapezoidal section; a shaft; a fixed disc and a movable disc, said discs having oppositely inclined frusto-conical faces which are so placed as to grip the sides of a V-belt, said discs being so connected that they are forced to rotate together and so mounted that they can rotate freely on said shaft, said fixed disc being restrained so that it cannot move axially with relation to said shaft and said movable disc being so mounted that it can move axially of said shaft within limits toward or away from said fixed disc; a major compression spring so mounted as to force said discs toward each other; a primary clutch member rigidly mounted on said shaft and having a primary clutch face; a secondary clutch member having a secondary clutch face so placed that it can be brought into frictional engagement with said primary face, said secondary clutch member being so mounted on an extension of said secondary disc that it can move axially within limits toward or away from said secondary disc; a minor compression spring which exerts an axial force materially less than the axial force exerted by the major spring, said minor spring being so mounted that it forces said secondary disc and said secondary clutch member apart; and a centrifugally actuated mechanism so placed as to pull said secondary disc toward said secondary clutch member, said centrifugally operated mechanism having a sufficient range to permit the secondary clutch face to be forced out of contact with the primary clutch face when the centrifugal member is in its retracted position and the two discs are nearest each other, and to permit the secondary clutch face to engage the primary clutch face before the discs start to be pulled apart by the centrifugally operated mechanism.

2,529,744
CHOKING COLLAR BLOWOUT PREVENTER AND STRIPPER
Frank J. Schweitzer, Brea, Calif.
Application May 18, 1946, Serial No. 670,800
3 Claims. (Cl. 286—16)



1. A blow-out preventer and pipe stripper including a casing head shell having a cylindric bore face with a fixed inwardly guide arch at its upper end, an inner tubular wall spaced from and concentric with said bore face and in which a tool string having a shoulder projection may pass axially, a tubular, flexible packer fitted and bodily endwise movable in the space between said bore face and said wall and which is directed by said arch inwardly toward an interposed tool string, a pressure operated piston means connected to and for bodily shifting the packer to extrude it from said space at the upper end, and a buttress means normally pocketed in open position in the shell and being moved centripetally onto the top surface of and by and as the upper end of the packer is extruded from said guide arch.

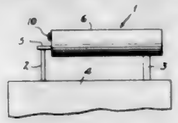
2,529,745
COLLAPSIBLE BOAT
Malcolm N. Stanley, Newton, Mass.
Application August 4, 1949, Serial No. 108,462
1 Claim. (Cl. 9—2)



In a collapsible boat the combination of a flexible skin for the boat, a plurality of light

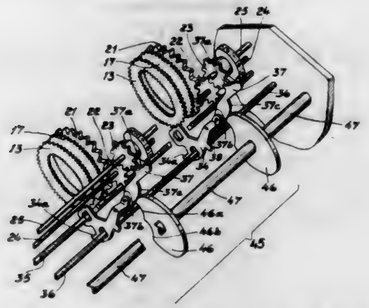
metal, hollow tubes interconnected to form a framework for the skin, at least one of said tubes being disposed with its open outer end upwardly directed at the gunwale of the boat, a folded portion at the periphery of the skin covering said end and a grommet secured in the folded portion above said end to admit the pivot pin of an oarlock thereto, thereby providing a receptacle for the oarlock so that the oarlock serves to hold the skin in a fixed position relative to the framework.

2,529,746
TORCH CONSTRUCTION FOR ELECTRIC LIGHTERS
Nathan N. Stern, Cleveland, Ohio
Application October 17, 1947, Serial No. 780,457
6 Claims. (Cl. 175—296)



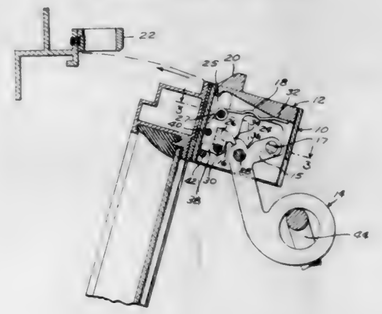
1. A torch member for an electric lighter adapted to be energized by an external source of current which comprises a tubular member enclosing a reservoir for lighter fluid and serving as a contact member, a resistance wire, an electrically conductive disc within said tubular member, said disc carrying a contact member and electrically connected to an end of said resistance wire, a second electrically conductive disc overlying the first disc and apertured to permit passage therethrough of said contact member in spaced relation to said second disc, said second disc being electrically connected to the opposite end of said resistance wire, and insulation material disposed between said discs, said second electrically conductive disc having edge portions in contact with electrically conductive portions of said tubular member.

2,529,747
ALIGNING MEANS FOR CRAWL-CARRY TRANSFER MECHANISMS
Sture Toorell, Atvidaberg, Sweden, assignor to Aktiebolaget Facit, Atvidaberg, Sweden, a joint-stock company of Sweden
Application May 29, 1948, Serial No. 30,079
In Sweden June 6, 1947
4 Claims. (Cl. 235—136)



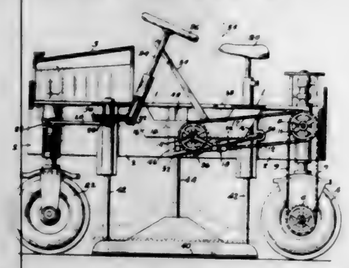
1. An aligning mechanism for a totalizer having a tens transfer device of the crawl-carry type comprising in combination a numeral wheel pinion fixed to each numeral wheel of the totalizer, a cooperating drive gear for each numeral wheel pinion, said numeral wheel pinions each having a plurality of tooth spaces of differing depths the tooth roots forming a spiral, each drive gear having teeth of varying radial height forming a spiral, said pinions and gear intermeshing with the longest tooth interfitting with the deepest tooth space, a plurality of aligning members each having separate surfaces adapted to simultaneously engage one with a tooth space of the corresponding numeral wheel pinion and the other with a tooth of the corresponding numeral wheel drive gear, a plurality of gear segments each articulately connected to one of said aligning members, said gear segments being adapted to mesh with one of the gears of the calculating gear train associated with the next higher denominational order of numeral wheel, and means for moving said aligning members sequentially into contact with a tooth and tooth space of the corresponding numeral wheel drive gear and numeral wheel pinion respectively to thereby cause oscillation of said connected gear segments through an amount dependent upon the particular pair of tooth spaces and teeth contacted.

2,529,748
LATCH
Louis Toth, Flushing, N. Y.
Application December 1, 1945, Serial No. 632,221
7 Claims. (Cl. 292—164)



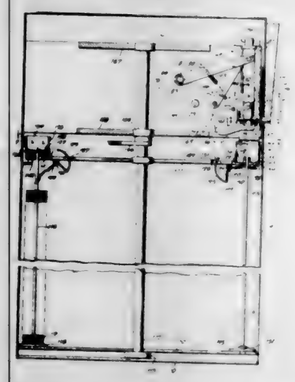
1. In a latch for swinging sashes of windows or doors, a fastening assembly including a casing, a block sliding in the casing having a catch adapted to engage a strike upon closure of the sash, a lever to actuate the block pivoted in the casing, interengaging members on the lever and block providing a lost motion connection between the lever and block, said interengaging members including spaced abutment walls in the block and an abutment member on the lever of less width than the space between said walls, so constructed and arranged that movement of the lever in one direction will bring the lever abutment member into contact with one of the abutment walls in the block to retract the block in the casing, and movement of the lever in the other direction will bring the abutment member into contact with the other wall in the block, said lever being movable in said second direction far enough to bring said abutment member at least to a position of alignment in the direction of movement of the block with respect to the pivot point of the lever to lock the block in its extended position, said lost motion connection permitting movement of the block independently of the lever when the lever is in an intermediate position.

2,529,749
LIFTING VELOCIPEDE
Estes M. Wade, Burlingame, and Lawrence J. Costa, Oakland, Calif.; said Costa assignor to said Wade
Application January 21, 1949, Serial No. 71,868
2 Claims. (Cl. 214—75)



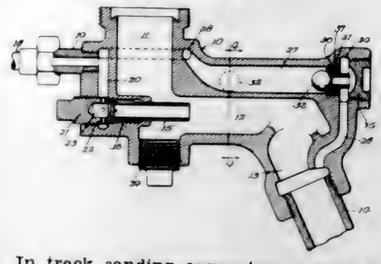
1. A velocipede comprising an inverted U-shaped frame having opposite depending sides; running gear mounted below opposite ends of said sides; pedal-operated driving gear mounted upon said frame and connected to said running gear on one end of said sides; steering mechanism mounted upon said frame and operatively connected to the running gear upon the opposite ends of said sides; lifting shoes slidably mounted for vertical movement on opposite sides and intermediate said running gear thereon; and lever-actuated mechanism mounted upon said frame and operatively connected to said shoes and adapted to move the same vertically.

2,529,750
TICKET MACHINE
Richard I. N. Weingart, New York, N. Y.
Application September 28, 1949, Serial No. 118,307
20 Claims. (Cl. 164—15)



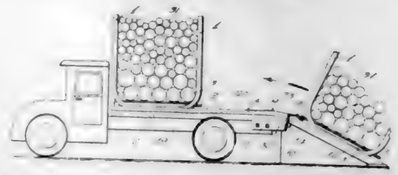
1. In a ticket machine, the combination of a ticket cutter for cutting the ticket from the patron's stub portion thereof, a punch for perforating the ticket, a spindle disposed below the punch, and means comprising a stripper associated with the punch for applying the punched tickets to the spindle, a support for the lower end of the spindle, and means for providing support for the upper end of the spindle while permitting downward travel of the tickets thereon, such means comprising a retractable element formed with spindle-holding means, a receptacle which receives the upper end of the spindle in spaced relation, the receptacle being open at its upper and lower ends and being arranged to receive the tickets and afford support against lateral movement thereof as they are applied to the upper end of the spindle, the lowermost ticket being arranged to move the retractable element out of spindle-supporting position as the tickets within the receptacle support the spindle relative to such receptacle, and means for retaining plural tickets within the receptacle in such spindle-supporting position including plural, vertically-spaced fingers extending into the receptacle.

2,529,751
SAND TRAP
William H. White, Roanoke, Va., assignor to Morris B. Brewster Co., Inc., Chicago, Ill.
Application March 17, 1947, Serial No. 735,161
4 Claims. (Cl. 291—11)



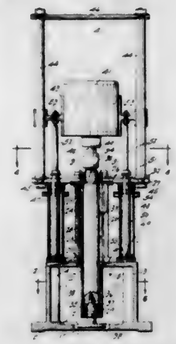
1. In track sanding apparatus, a sand trap, comprising: a casing having embodied therein inlet and discharge legs for sand, a duct for delivering a clean-out blast to the discharge leg, and an elongated valve chamber; an air nozzle in the casing for discharging sand therefrom; a single connection for delivering air into the casing from an engineer's control valve; means in the casing for conducting air from said connection to the nozzle and to said chamber; and a valve for automatically controlling a clean-out blast, disposed in the trap casing, and including a seat, and a valve member in said chamber normally spaced from said seat adapted for retarded movement by air from said connection to said seat, and to deliver a clean-out blast of limited duration to the clean-out duct during said retarded movement, and movable by gravity away from the seat when the supply of air to the connection is cut off.

2,529,752
METHOD AND APPARATUS FOR LOADING AND TRANSPORTING LOGS AND OTHER MATERIALS
Charles E. Whittle, Brunswick, Ga.
Application May 14, 1948, Serial No. 27,105
8 Claims. (Cl. 214—85)



1. In an apparatus for loading and transporting heavy loads by transportation unit, in combination a transportation unit body structure, a pallet frame structure including longitudinally extending tubular skids for receiving and confining a load, a pair of spaced L rails extending longitudinally of the transportation unit body structure means carried by the transportation unit body structure between said L rails for moving the loaded pallet into position thereon with said tubular skids sliding in said L rails and separate means for maintaining said loaded pallet structure in position on the transportation unit body structure between said L rails during transportation.

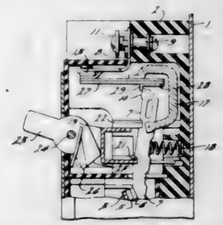
2,529,753
VERTICAL BORING MACHINE
John C. Williams, Oakland, Calif.
Application November 20, 1948, Serial No. 61,274
5 Claims. (Cl. 77—4)



1. A boring machine comprising; a base; a head plate; a cylindrical spacer for supporting said head plate and supported by said base; diametrically located cylinders mounted between said base and said head plate and a piston for each cylinder and having a piston rod projecting upwardly through the head plate; a pair of spaced vertical slide bars supported by said head plate and projecting upwardly; a motor supported by said piston rods and guided by said slide bars; a spindle sleeve slidable in said cylindrical spacer and secured against axial or rotative movement relative to said motor; a spindle rotatable in said spindle sleeve and retained against axial movement therein; and means for controlling flow of fluid under pressure to and from said cylinders; said spindle terminating at the lower end of said spindle sleeve and having means for mounting a cutting tool axially therein; whereby said spindle is supported throughout its length by said spindle sleeve irrespective of advancement or retraction of the cutting tool in a work piece.

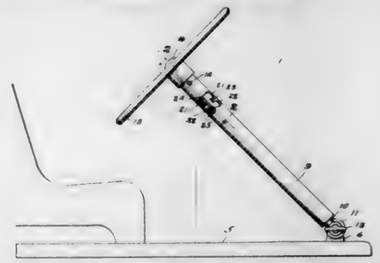
2,529,754
CIRCUIT BREAKER
Wallace T. Allen, Dearborn, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Original application December 24, 1942, Serial No. 470,044. Divided and this application October 21, 1949, Serial No. 122,629
6 Claims. (Cl. 200—116)

1. An automatic circuit breaker, separable contacts, a switching member for effecting separation of the said contacts to open the circuit through the breaker, a thermostatic member for initiating operation of said switching member, a flexible lead interconnecting said thermostatic member and said switching member, said flexible lead being secured to said thermostatic member intermediate the ends thereof whereby but a portion of said thermostatic member is in series circuit with said contacts, a thermally inactive member secured to that portion of said thermostatic member which is not in series circuit with said contacts, said thermally inactive member being attached to said thermostatic member only near one extremity of said thermally inactive member and having a latching surface near the opposite



extremity of said thermally inactive member engageable with said switching member, said series circuit portion of said thermostatic member being movable toward releasing position on the occurrence of moderate overload current, at least that portion of said thermally inactive member having the latching surface also being movable relative to said thermostatic member on said occurrence of a moderate overload current so as to tend to maintain said latching surface in engagement with said switching member.

2,529,755
TOY MOTOR VEHICLE SIMULATED STEERING WHEEL
Julian F. Alter, Greeneville, Tenn.
Application July 13, 1949, Serial No. 104,417
3 Claims. (Cl. 46—1)

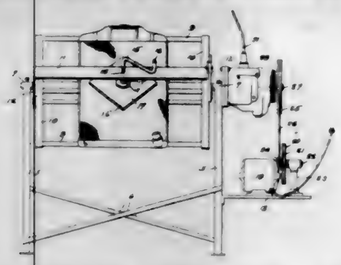


1. A toy of the class described, comprising a base, a simulated vehicle steering post, means for adjustably connecting the steering post to the base for angular adjustment with respect to the base, a steering wheel mounted for rotary movement on the free end of the steering post, a spring member disposed within the hub of the steering wheel normally urging the steering wheel into close engagement with the end of the post restricting rotary movement of the steering wheel with respect to the post.

2,529,756
DEVICE FOR CLEANING RADIATORS
James L. Bacus, Pendleton, Oreg.
Application January 17, 1945, Serial No. 573,297
1 Claim. (Cl. 134—150)

A device for supporting motor vehicle radiators while being flushed, comprising a support,

a rectangular frame mounted for rotary movement within the support, said frame embodying side bars against which a radiator is positioned, a screw clamp supporting bar having one of its ends pivotally connected to the frame the opposite end of the bar being removably secured to the frame, said bar having a threaded opening disposed intermediate its ends,



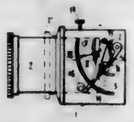
an adjustable screw clamp including a threaded portion operating through the threaded opening of the bar, a wide radiator clamping member adjustably mounted at one end of the screw clamp, said wide clamping member adapted to clamp a radiator against the side bars of the frame, whereby the frame and radiator supported thereby may be rotated agitating flushing fluid contained within the radiator.

2,529,757

REFLEX CAMERA, INCLUDING MIRROR GUIDES AND RESILIENT STOP MEMBER

Georges Baer, Paudex Lausanne, Switzerland, assignor to Pignons S. A., Ballaigues, a corporation of Switzerland

Application May 14, 1947, Serial No. 747,966
In Switzerland July 16, 1946
8 Claims. (Cl. 95—42)



1. In a photographic apparatus, the combination, comprising, a framework, an objective support axially slidable in said framework, an objective carried by said support, a mirror support movable from a photographing to a viewing position in said framework, a reflex mirror on said support, manually operable means moving said mirror support between said positions, resilient means urging said operable means to move said mirror support toward the viewing position, a resiliently biased stop member on said framework and opposing and overcoming the urge of the resilient means, and means for adjusting the stop member and engaged by same under urge of the resilient bias.

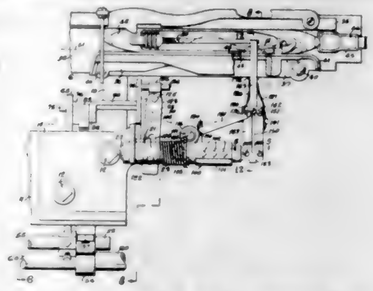
2,529,758

THREAD EXTRACTING, CLAMPING, AND CUTTING DEVICE FOR LOOMS

George F. Bahan, Greenville, S. C.

Application September 23, 1949, Serial No. 117,378
11 Claims. (Cl. 139—260)

2. An improved thread extracting, clamping and cutting device for use in combination with a filling replenishing loom having a lay and a shuttle box at the replenishing side of the loom for receiving a shuttle having filling thread therein, and the shuttle box having a box front provided with an opening adjacent the thread discharging end of a boxed shuttle, the improved clamping and cutting device comprising a support secured to the loom, a thread extracting bar mounted for sliding movement in the support and being disposed in substantially the same horizontal plane as the shuttle upon a beat-up stroke of the lay, hook means on the thread engaging end of said thread extracting bar for engaging the outgoing thread through said opening in



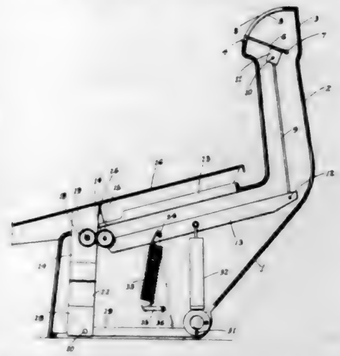
the shuttle box front, means engageable by the lay of the loom for imparting sudden movement to the thread extracting bar in a direction away from the lay of the loom for withdrawing the outgoing thread from the shuttle box, a spring loaded clamping member engaging one side of said thread extracting bar and a spring loaded cutting member engaging the other side of said thread extracting bar whereby, upon movement of the thread extracting bar in a direction away from the lay of the loom, the filling thread will be pulled past the clamping member to be clamped thereby and will also be pulled past the cutting member to be severed thereby.

2,529,759

SPRING SCALE

Harry D. Benson, Fresno, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California

Application April 23, 1947, Serial No. 743,318
9 Claims. (Cl. 265—68)



1. Spring balanced scales including a movable load support, a spring operatively connected at one end to the support, a weight-responsive pointer operatively connected to the support adapted to read on a fixed scale point under predetermined weight on the scales, and a crank unit connected to the spring to quick-change the initial loading thereof corresponding to different predetermined weights; the crank unit including a manually turnable shaft, and a crank on the shaft connected to the free end of the spring, the shaft being turnable to shift the crank and spring end between stop positions on opposite sides of dead-center relative to the spring.

2,529,760

PROCESS OF TREATING A WATER BASE DRILLING MUD TO REMOVE CONTAMINATING SULFATE IONS

William E. Bergman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 27, 1949, Serial No. 73,232
12 Claims. (Cl. 252—8.5)

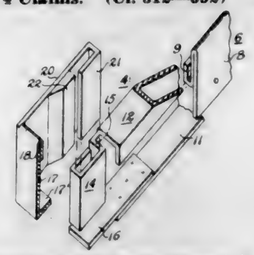
7. The process of treating a water base drilling mud comprising water and clayey materials to remove contaminating sulfate ions which comprises the steps of alkalizing said mud, providing barium ions to precipitate said sulfate ions, and providing hydroxide ions to maintain alkalinity, by adding a minor amount of a substance selected from the group consisting of the metal barium, barium hydroxide, barium oxide, barium peroxide, barium carbide, and barium hydride, in an amount sufficient to reduce the 10 minute gel strength of said drilling mud in the presence of sulfate ions.

2,529,761

SKIRT FOR SAFES

Frederick J. Bremer, Hamilton, Ohio, assignor to The Mosler Safe Company, Hamilton, Ohio, a corporation of New York

Application July 22, 1949, Serial No. 106,215
4 Claims. (Cl. 312—352)



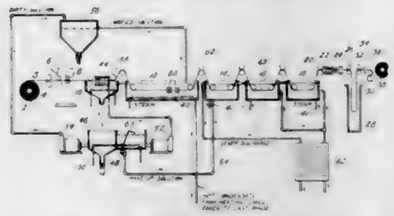
1. A skirt adapted for attachment to the bottom of a movable safe to conceal the wheels thereof comprising support members adapted for attachment to the opposite sides of the safe at the bottom thereof, each of said support members having a trough-like flange at the upper edge thereof, a side skirt plate for each side of the safe, each side plate being provided with flanges disposed to be received in said trough-like flange, the front ends of said side plates being provided with vertically disposed U-shaped flanges, a support member at the bottom of said U-shaped flanges, a front skirt plate extending from one side skirt plate to the other and being provided at its ends with U-shaped flanges complementary to the U-shaped flanges on said side plate, said side plates being slidable forwardly to a position where said front plate can be raised to disengage the ends thereof from said side plates, and when said front plate is supported by said side plates and the side frame members are moved rearwardly the front plate is under and substantially flush with the front wall of said safe.

2,529,762

METHOD AND APPARATUS FOR CONTINUOUS CLEANING OF METAL STRIP

Andre H. Brisse, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application April 11, 1946, Serial No. 661,251
7 Claims. (Cl. 134—10)



4. A cleaning line for removing dirt and oil from metal strip comprising means for moving the strip through the line, a first tank at the entry end of the line, said tank containing cleaning liquid, pressure jets adjacent the first tank for spraying hot cleaning liquid on said strip, a second tank containing cleaning liquid through which the strip passes after passing through the first tank, a settling tank, a conduit leading from the lower portion of the first tank to the settling tank, a clarifying unit, means for delivering a controlled portion of the liquid in the settling tank to the clarifying unit, a conduit leading from the clarifying unit to the exit end of the second tank, means for delivering a controlled portion of the liquid in the settling tank to the pressure jets, a plurality of rinse tanks through which the strip passes after leaving the second cleaning tank, means for introducing clean water into the last rinse tank, the water in said rinse tanks flowing from the last to the first rinse tank, means for taking controlled amounts of the solution from the first rinse tank and introducing it into the cleaning liquid circulating system, and means for controlling the flow of solution from the first rinse tank to the circulating system.

5. A continuous method of removing dirt from metal strip or the like comprising spraying hot cleaning liquid on the strip, then passing the strip through a tank of cleaning liquid, clarifying the dirty liquid sprayed on the strip, delivering a portion of said clarified liquid to the exit end of the cleaning tank, delivering another portion of said clarified liquid to the cleaning liquid being sprayed, then passing the strip through a plurality of rinse tanks with the hot water from the last rinse tank flowing through the tanks toward the first tank, and taking solution from the first rinse tank and introducing it at a controlled rate into the cleaning liquid being clarified.

2,529,763

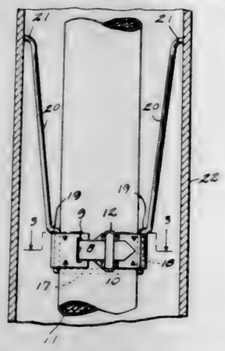
GEOPHYSICAL SAFETY CATCH

Lloyd R. Deputy and Lena F. Deputy, Jennings, La.

Application November 22, 1946, Serial No. 711,564
1 Claim. (Cl. 102—21.8)

In combination with an explosive charge enclosing sleeve, a spring support mounted on the sleeve and adapted to support it in a vertical conduit, said spring support including a resilient strand and a sleeve encircling metal strap se-

curing the strand to the sleeve, said strap having fastening means adjustably connecting the ends thereof and securing the strap around the sleeve, inwardly extending prongs struck from the strap and embedded in the sleeve, said strap having oppositely disposed outwardly offset portions, said strand having an arcuate intermediate portion engaging partially around the sleeve below the strap, said arcuate intermediate portion terminating in upwardly extending leg portions dis-

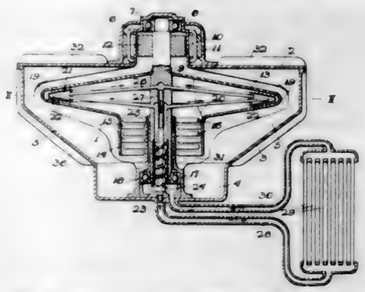


posed between the sleeve and the outwardly offset portions of the strap, said strand having corresponding upwardly diverging end portions projecting from the upper ends of said upwardly extending leg portions each having an outturned conduit wall engaging terminal, said upwardly diverging end portions being biased outwardly by the resiliency of the strand for urging the outturned terminals into frictional engagement with the wall of the conduit to support the charge enclosing sleeve in the conduit.

2,529,764
MAGNETIC COMPASS
Leon G. Dufilho, Shreveport, La.
Application October 27, 1947, Serial No. 782,297
5 Claims. (Cl. 33—222)

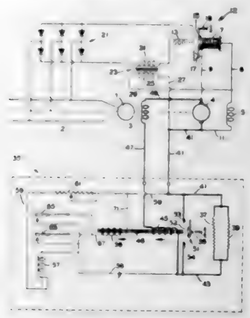
1. A pocket compass, comprising a relatively long cylindrical body portion, a spindle for a compass magnet projecting axially from one end of said body portion, a hollow carrier open at its bottom and having an inverted U-shaped groove therein, a compass magnet in the shape of an inverted U fitted in the groove of said carrier, said carrier and said cap being cooperatively freely pivoted on said spindle, and a protecting transparent cap carried by the end of said body portion, and surrounding and enclosing said compass magnet, the outside diameter of said protecting transparent cap being approximately the same as the outside diameter of said body portion.

2,529,765
CENTRIFUGALLY OPERATED MACHINE
Hellmuth Alfredo Arturo Exner, Florida, Argentina
Application October 14, 1947, Serial No. 779,661
3 Claims. (Cl. 62—136)



1. In a centrifugally operating refrigerating machine the combination comprising a closed housing, a shaft journaled in the housing, a hollow rotor affixed to the shaft and communicating through its lower end with the housing, atomizing nozzles carried by the rotor and establishing communication between the housing and rotor vaporizing means associated with the lower end of the rotor, a reservoir for liquid refrigerant in the housing and below the lower end of the rotor, a hollow ring rigid with the rotor, inlet means for other liquid refrigerant connected at one end to the ring, radiator means connected to the other end of the inlet means, outlet means for the other liquid refrigerant connected at one end to the ring and at the other end to the radiator means.

2,529,766
EXCITER CONTROL
Lawrence E. Gartner, Hasbrouck Heights, and Joseph W. Allen, Montclair, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 29, 1948, Serial No. 57,254
7 Claims. (Cl. 322—24)



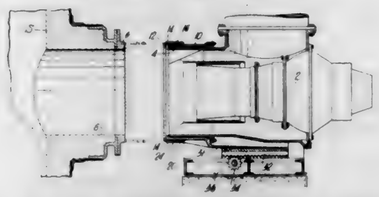
1. In a control system, the combination with a generator having a field magnet winding,

means for regulating the energization of said field winding, and a resistor in circuit with said winding, of a relay switch means for closing a shunt circuit for said resistor when the voltage drop across said resistor exceeds a predetermined value, said relay switch means including an auxiliary winding connectable across said resistor and a main winding connected in series relation between said resistor and field magnet winding.

2,529,767
PRESSURE COOKER CLOSURE
Alex M. Gorfin, New York, N. Y., assignor to Legion Utensils Co., Long Island City, N. Y., a limited partnership of New York
Application September 21, 1946, Serial No. 698,532
2 Claims. (Cl. 220—40)

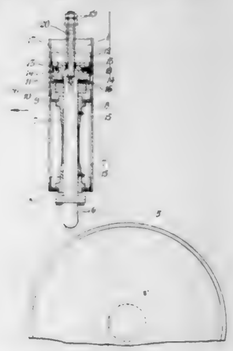
1. A pressure cooker comprising, a kettle member having an outwardly projecting annular flange at its open top, said kettle member and flange being of substantially uniform wall thickness throughout and said flange having inner and outer annular parts of which the inner part is offset axially inwardly of said kettle member relative to said outer part so as to provide an annular shoulder between said parts, and said outer part having angularly spaced portions inclined to the central axis of said member and being peripherally notched intermediate said portions, a removable cover member for said kettle member, an annular gasket interposed between said members and bearing against said inner annular flange part and shoulder on said kettle member, and followers projecting from said cover member, said followers being passable through said peripheral notches into cooperative alignment with the inclined flange portions of said kettle member on bringing said members into closing relation, and said followers cooperating with said inclined flange portions to clamp said members against the interposed gasket on relative rotation between said members in their closed relation.

2,529,768
SELF-ALIGNING SLEEVE FOR PRESSURE-TYPE GAS BURNERS AND THE LIKE
Charles M. Guy, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application September 14, 1948, Serial No. 49,146
2 Claims. (Cl. 158—109)



1. A packing sleeve for a gas burner having a fuel nozzle projecting from the end thereof comprising a cylindrical member slidingly mounted circumferentially around said nozzle, a packing ring slidably mounted around the outer surface of said cylindrical member and projecting from the forward end thereof, a collar slidably mounted around said cylindrical member adjacent said packing ring, said packing ring being supported by said collar, a plurality of resilient means mounted around said cylindrical member at spaced intervals urging said collar supported packing ring forward beyond the forward end of said cylindrical member, said resilient means consisting of a stop ring fixedly mounted around said cylindrical member in spaced relationship with said collar, said stop ring having a longitudinal bolt hole therethrough, a tap bolt having a diameter slightly less than the diameter of said bolt hole extending through said bolt hole and having its forward end threaded into said collar, and its other end projecting rearwardly of said stop ring, the longitudinal movement of said tap bolt being limited by a pair of lock nuts threaded around its rearwardly projecting end adjacent said stop ring, and a compression spring mounted around said tap bolt intermediate said collar and said stop ring bearing against said collar on its one end and against said stop ring on its other end.

2,529,769
CASTER WITH ANGULAR VIBRATION DAMPER
George Hallewell, Stamford, England, assignor to Blackstone and Company Limited, Stamford, England
Application November 12, 1947, Serial No. 785,393
In Great Britain May 20, 1947
3 Claims. (Cl. 16—35)

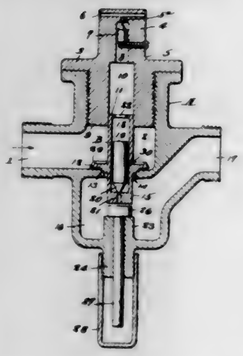


1. A caster assembly comprising a load frame, a spindle journalled in said load frame, a caster wheel journalled on said spindle at right angles to the axis of said spindle, load transmitting elements respectively attached to said spindle and to said frame and disposed substantially in axial alignment with said spindle and with the frame attached element frictionally bearing on and supported by said spindle attached element, and means adjustably connecting at least one of said elements to its attachment for permitting a deviation relative to the spindle axis to maintain full bearing engagement between said elements.

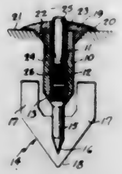
2,529,770
GAS SAFETY VALVE
Andrew R. Hanson, Oklahoma City, Okla.
Application March 7, 1947, Serial No. 733,118
5 Claims. (Cl. 137—153)

1. A device of the character described comprising, a casing having a gas conduit there-

through provided intermediate its length with a passageway having a valve seat, a member above said valve seat comprising a cylinder the upper end of which is provided with an outlet communicating with the atmosphere, an upwardly and outwardly closing check valve adapted to close said outlet, a hollow elongated tubular piston in said cylinder, a main disc-like cut-off valve carried by said piston external of the cylinder and adapted on downward movement to close the passageway in the conduit and on upward movement to seat in gas-tight engagement against the lower end of the piston communicating with the cylinder, said piston provided with a passageway positioned immediately above the cut-off valve and communicating with the space between said valve and the lower end of the cylinder when the main cut-off valve is in engagement with the cylinder end, and means in the form of a manually operable lifter for moving the main cut-off valve to the aforesaid fully elevated position.

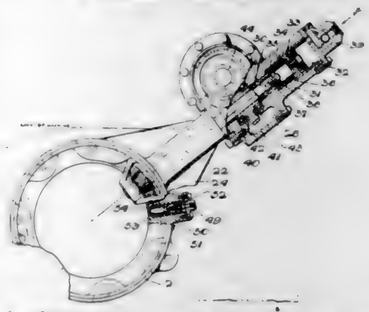


2,529,771
GOLF PRACTICE TEE
George W. Herman, Long Hill, Conn.
Application February 28, 1949, Serial No. 78,783
7 Claims. (Cl. 273—35)



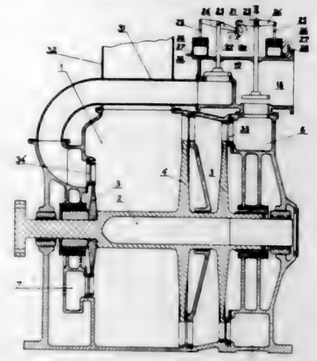
1. A golf practice tee comprising a body member provided with a longitudinal passage, a rounded cap secured to the upper end having an opening in alignment with said passage, a spade member including a lateral wing adapted to be forced into the ground, said spade member also including a stud threaded into the lower end of the body member for longitudinal adjustment therein, and a marking element mounted in the passage above said stud and supported by the stud for adjustment thereby to a position to project above the top of the cap for marking a golf club swung over the cap.

2,529,772
CHUCK OPERATING MECHANISM
George A. Highberg, West Hartford, Conn.
Application January 10, 1949, Serial No. 70,022
5 Claims. (Cl. 279—4)



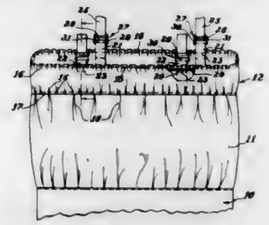
5. A chuck jaw opening and closing fluid power unit for machine tools comprising a bracket formed with fastener openings for mounting on the headstock of the machine, said bracket also serving as a support for the elements of the said power unit, said elements comprising a spindle with a pinion gear for turning a part of a chuck to open or close the jaws thereof, a fluid motor for imparting forward axial movement to said spindle and pinion into engagement with the chuck part to be turned, a spring for returning the spindle and pinion to neutral position when the said fluid motor is deenergized, a fluid motor for imparting rotation to said spindle and pinion at the same instant the spindle and pinion engage with the chuck part, whereby the power is transmitted to open or close the chuck jaws, means adapted to lock the body of the chuck against turning operating simultaneously with the said referred to motors, and a spring adapted to unlock said lock means when said motors are neutral.

2,529,773
POWER PLANT
Johan Erik Johansson, Goteborg, Sweden, assignor to Aktiebolaget Gotaverken, Goteborg, Sweden, a corporation of Sweden
Application September 29, 1944, Serial No. 556,433
In Sweden November 22, 1943
1 Claim. (Cl. 253—70)



An elastic fluid turbine including a casing having a rotatable turbine shaft therein, said shaft having two forward turbine wheels and a reverse turbine wheel mounted thereon, one of said forward wheels and the reverse wheel constituting impulse wheels and the other forward wheel a reaction wheel, said turbine having individual admission members for supplying driving fluid to the turbine, one of said forward wheels having a blade rim mounted thereon, annular inlet chambers for the forward and reverse turbine wheels, each of said chambers being divided into separate arcuate sectors including a forward sector and a reverse sector that communicate individually with each of said individual admission members, spaced valve means in the admission member for controlling the flow of the driving fluid to the forward and reverse wheels, each of said admission members being arranged to receive driving fluid separately from separate sources of elastic driving fluid, and guide vanes in front of the blade rim and communicating directly with a complementary inlet chamber sector, said guide vanes being constructed so that the pressure drop therebetween becomes substantially critical at normal supply of driving fluid to the blade rim.

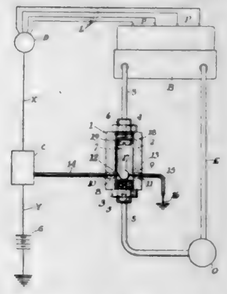
2,529,774
LADY'S UNDERGARMENT
Sam Landau, New York, N. Y.
Application November 19, 1948, Serial No. 60,969
4 Claims. (Cl. 2—73)



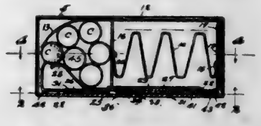
3. In a strapless undergarment of the character described having a bodice portion adapted to fit over the body, a hollow band of substantial width secured to the upper edge of the said bodice portion, said band comprising an inner band ply and an outer band ply, said plies secured to one another along their upper edges in extended relation, said plies secured to one another along their lower edges and to the upper edge of the said bodice portion in gathered relation whereby said upper edge is restricted to approximate body girth, a relatively thin elastic element of circular cross section of a length less than said band disposed within said band and extending therearound, and means for retaining said elastic element adjacent the upper edge of said band.

2,529,775
ENGINE SAFETY SWITCH
Lewis W. Maddox, Clarksville, Ga., assignor of one-half to Clyde Owen, Atlanta, Ga.
Application January 20, 1948, Serial No. 3,222
1 Claim. (Cl. 200—81.9)

A safety switch of the type inserted within the oil pressure and ignition lines of an internal combustion engine for short circuiting the ignition line upon lack of sufficient pressure in the oil line, which switch comprises a cylindrical tube that has integral threads at both the top and bottom ends thereof, the threads at the top being internal threads, an inlet plug threaded to the threads at the bottom of said tube and having an axial bore for admitting oil from the pressure line, an outlet plug threaded into said internal threads of the top of said tube and having an axial bore for exhausting oil to the pressure line, a metal ball of a diameter substantially larger than said bores and freely enclosed within said tube to be selectively movable against said plugs to seal the bores therein, spaced electric contacts extending inwardly from the sides and in the bottom portion of said tube to be bridged by said ball when it moves against the inlet plug and is at rest, an integral extension on the bottom of said outlet plug and depending into said tube, said extension surrounding the bore in said outlet plug and having a diameter that is smaller than the diameter of the interior of said tube, and radial slots in the bottom of said extension and extending from said plug bore to the periphery of said extension to by-pass oil around said ball when the ball is forced by oil pressure against said extension and seals the bore therein.



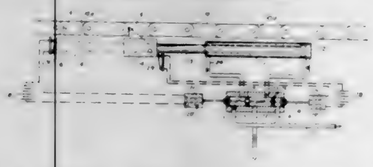
2,529,776
CIGARETTE CASE WITH EJECTOR AND AGITATOR
Henry Maschek, San Francisco, Calif.
Application April 14, 1947, Serial No. 741,264
1 Claim. (Cl. 206—41.2)



A device of the class described, comprising a case having an ejection opening at one end, said case being proportioned to receive a supply of parallel cigarettes disposed longitudinally of the case, a plate mounted therein adjacent one side wall of the case, an angular lever pivoted to the plate, means for operating the lever, cigarette ejection means connected to the lever and aligned with the ejection opening, said means being at the other end of the case and being spaced approximately a cigarette length from the opening when the other end is engaged by said means, an agitator piece slidably mounted on the plate, said piece curved to extend inwardly of the case whereby to disturb a supply of cigarettes when the agitator piece is slidably moved, a lug on the agitator piece engageable by the lever, whereby to move the agitator piece in one direction simultaneously with lever actuation of the ejection means, a spring connected to the agitator piece yieldably tending to move it in the other direc-

tion, said agitator piece moving transversely of the longitudinal axes of the cigarettes, and yielding means mounted on the case tending to maintain one of a supply of cigarettes deposited therein in position over the ejection means.

2,529,777
CONVEYER DRIVE
William H. McInnis, Windsor, Ontario, Canada
Application October 23, 1946, Serial No. 705,157
2 Claims. (Cl. 198—135)



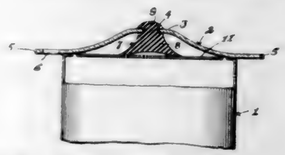
1. A conveyor drive comprising a fluid actuated piston mounted in parallel relation to a conveyor, valve means controlling the flow of fluid to said piston for reciprocating the same, solenoids controlling said valve means, a connecting rod connected to said piston, a casing at the end of said rod, a drive dog carried by said casing adapted to operatively engage the conveyor when moved in one direction, and spaced electric switches in the path of movement of said casing, said switches being electrically connected with said solenoids and operated by said casing to alternately energize said solenoids.

2,529,778
PROCESS FOR MAKING TUNGSTEN MONOCARBIDE FROM TUNGSTEN-CONTAINING MATERIAL
Philip M. McKenna, Greensburg, Pa., assignor to Kennametal Inc., Latrobe, Pa., a corporation of Pennsylvania
No Drawing. Application January 12, 1949, Serial No. 70,588
29 Claims. (Cl. 23—208)

1. The process of producing tungsten monocarbide (WC) from tungsten-containing material comprising the preparation of a charge containing the said material, silicon and carbon, heating the charge to a temperature above 2000° C. to cause carbon to combine with tungsten to form tungsten carbide and silicon to combine with other metals in the charge to form silicides thereby preventing the formation of insoluble intermetallic compounds with tungsten, cooling the resulting regulus, leaching the regulus material with acid to remove the acid-soluble portion thereof, and subjecting the remaining undissolved portion to gravity separation to separate a light portion, relatively low in density, containing the silicides, from a heavy portion, relatively high in density, the heavy portion consisting substantially of tungsten monocarbide (WC).

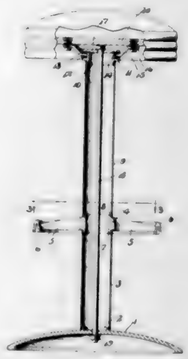
2,529,779
LID CATCHER
Charles McLellan, Los Angeles, Calif.
Application September 10, 1948, Serial No. 48,707
2 Claims. (Cl. 294—64)

1. Means to support a can lid after being severed from the can, said means comprising a narrow strip of spring material, said strip being bowed upwardly at the middle and having lateral ends projecting in opposite directions for resting on the upper edge of a can after the lid has been severed therefrom, said strip having a loosely-fitting centrally disposed elastic vacuum



cup extending downwardly from the strip to rest on and support a can lid, and said strip being freely revolvable on said vacuum cup.

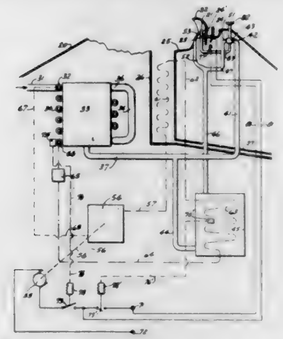
2,529,780
STOOL HAVING A ROTATABLE SEAT
Harry W. Miller, Muskegon Heights, Mich.
Application April 23, 1947, Serial No. 743,416
3 Claims. (Cl. 155—95)



1. In a structure as described, a base, a hollow tubular column having its lower end against the base and extending upwardly therefrom, said base having locating means extending within the lower end of the column, a sleeve extending partly into the upper end of the column having a horizontal outwardly extending ledge against which the upper end of the column bears, said sleeve extending above the ledge, a plate closing the upper end of the sleeve and extending outwardly beyond said sleeve, fastening means extending longitudinally of the column and through said base and plate, and a seat having an annular flange rotatably mounted between said ledge and plate, said seat being located above the plate.

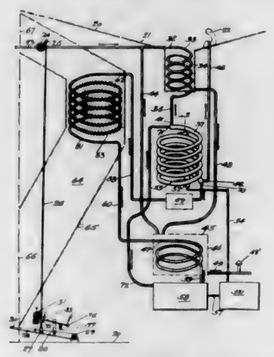
2,529,781
WATER COOLER HAVING ADJUSTABLE DRINKING WATER TEMPERATURE AND WATER BLEED
Samuel O. Morrison, Media, Pa., assignor to Sunroc Refrigeration Company, Dover, Del., a corporation of Delaware
Application January 27, 1947, Serial No. 724,636
13 Claims. (Cl. 62—7)

1. In a drinking fountain, automatic refrigeration means for cooling drinking water to a comparatively low drinking water temperature, means for warming a portion of the cooled drinking water to a comparatively high drinking water temperature, a mixing valve accessible to adjustment by the user, connections to the mixing valve for water at the comparatively low and comparatively high drinking water temperatures, a dispenser and connections from the mixing valve



to the dispenser for distributing the mixed effluent from the mixing valve.

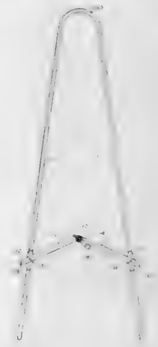
2,529,782
SAFETY REFRIGERATOR
Samuel O. Morrison, Media, Pa., assignor to Sunroc Refrigeration Company, Dover, Del., a corporation of Delaware
Application September 12, 1947, Serial No. 773,591
17 Claims. (Cl. 62—7)



1. In a safety water cooler, a refrigeration unit including an electric drive and a water inlet, a dispenser connected to the unit without intermediate valve shut-off and receiving cooled water therefrom, a water valve in the inlet, a switch controlling current to the electric drive, and an operator accessible to the user in position to drink from the dispenser, mechanically interconnected with the valve and with the switch and which both closes the switch and opens the valve.

2,529,783
FUR STRETCHER
Charles Herbert Olds, Prince George, British Columbia, Canada
Application December 22, 1948, Serial No. 66,601
3 Claims. (Cl. 45—24)

1. A fur stretcher comprising a frame made of a single length of flexible resilient material, a pair of arms extending angularly therefrom, a flattened portion formed near the free extremity of said arms, a pair of cross arms pivotally secured to said portion, a hook formed on the free extremity of each cross arms, means to secure



said cross arms in a predetermined position, and means to prevent the stretcher from folding beyond a predetermined position.

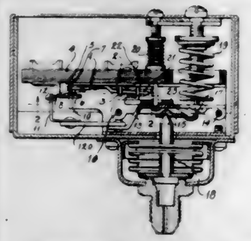
2,529,784
CONDENSATION PRODUCTS OF UREA, MONOALKYL UREA, FORMALDEHYDE, AND MONOHYDRIC ALIPHATIC ALCOHOL
John F. Olin, Grosse Ile, and Paul D. Morton, Wyandotte, Mich., assignors to Sharples Chemicals Inc., a corporation of Delaware
No Drawing. Application July 8, 1946, Serial No. 682,156
11 Claims. (Cl. 260—45.2)

1. In the manufacture of improved thermosettable condensation products of the urea-formaldehyde type, the process comprising blending together a product obtained by heating in the presence of a catalyst, a mixture comprising a monoalkyl urea containing from 4 to 12 carbon atoms in the alkyl radical, at least an equal weight of an unsubstituted saturated monohydric aliphatic alcohol containing from 3 to 8 carbon atoms and formaldehyde, with a second product obtained by heating, in the presence of a catalyst, urea, at least an equal weight of an unsubstituted saturated monohydric aliphatic alcohol containing from 3 to 8 carbon atoms and formaldehyde, the proportion of said first product to said second product in the blend being less than that required to provide a 7:3 weight ratio of alkylurea to urea entering into the two products of the blend, but sufficient to impart a desired degree of plasticization to the thermoset resin derivable from said blend upon heating.

2,529,785
SNAP ACTION SWITCH
Lawrence M. Persons, Chesterfield, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application May 15, 1947, Serial No. 748,222
8 Claims. (Cl. 200—83)

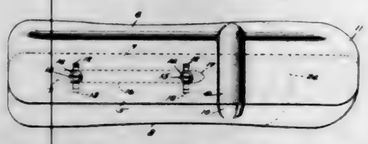
1. A pressure switch comprising a contact carrier movable between two positions, means for imparting moving force to said carrier, said means including a spring continuously biasing the carrier in a direction substantially perpendicular to the direction of movement of said carrier, a thrust link interconnecting said spring and said carrier, said spring being movable in a direction substantially parallel to the direction of movement

of said contact carrier to actuate the latter, and a lost motion connection between said means and



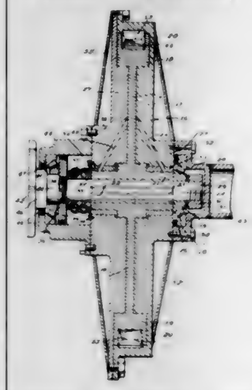
said carrier to limit movement of the former relative to a given position of the latter.

2,529,786
FOREARM SPLINT
Frederick C. Shaw, Lincoln, Ark.
Application November 30, 1948, Serial No. 62,615
1 Claim. (Cl. 128—89)



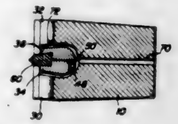
In a splint member a pair of detachably connected lapping splint sections, and a pressure bar extended longitudinally of said sections, said sections having registering transverse slots, and fastening means extended through the slots and into the pressure bar, thus to permit relative transverse movement of the splint sections, for adjustments of said splint member as to width, said pressure bar being adjustable bodily independently of the splint sections, and either end of the pressure bar being adjustable independently of the other end.

2,529,787
OIL DRIVEN TURBINE MOTOR VEHICLE WHEEL
Anton Shepelrich, Sayville, N. Y.
Application May 12, 1945, Serial No. 593,487
1 Claim. (Cl. 180—66)



A turbine motor for driving a vehicle wheel comprising a housing, a driven shaft having a flange plate on its outer end adapted to be secured to the vehicle wheel, a rotor in said housing having a hub keyed on said driven shaft, an inner bearing cap removably secured to the inner side of said housing over the inner end of said drive shaft, a stationary axle shaft fixed at one end to said cap, an anti-friction bearing between the inner end of the driven shaft and said cap, an outer bearing cap removably secured to the outer side of said housing over the outer end of said driven shaft, a second anti-friction bearing between the outer end of the driven shaft and the outer bearing cap, an oil seal ring and an inner grease retainer on the outer end of said driven shaft between the hub of the rotor and the second anti-friction bearing, and an outer grease retainer between the outer bearing cap and the flange plate at the outer side of the second-named anti-friction bearing.

2,529,788
DRILL
Carl A. Signell, Dover, N. J.
Application July 6, 1948, Serial No. 37,211
2 Claims. (Cl. 255—64)



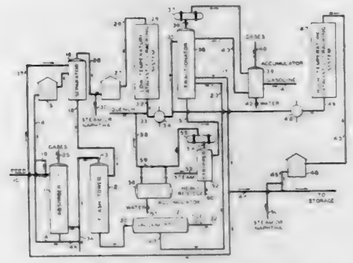
2. For use in drilling rock and other earth formations, a cutter comprising a head block having at one end a longitudinal recess and a relatively deeper longitudinal recess extending transversely of said first-mentioned recess, a pair of short bits positioned in said first longitudinal recess and spaced from each other, a guide positioned in said deeper recess and composed of two elements disposed in side by side relationship, a long bit in said guide and means for maintaining all of said bits assembled in said head, including a notch and a communicating groove in said guide and disposed at the bottom of said deeper recess, a resilient locking member having an enlarged end seated in said notch and engaging the bottom of said deeper recess, said head having a fluid passage therein, and a branch passage in said guide in communication with said fluid passage.

2,529,789
PIVOT RETRACTABLE CASTER FOR FURNITURE RAILS
Max Simonowitz, Jamaica, N. Y.; now by judicial change of name Max C. Simon
Application November 8, 1946, Serial No. 708,592
1 Claim. (Cl. 311—103)

The combination with a furniture structure having a side member provided with an elongated substantially rectangular recess formed longitudinally therein for a spaced depth, the inner face of said recess being divided vertically into identical sections, one of said sections being removed with the exception of a small shoulder retained integral with the back face of said side member and extending inwardly of said removed section from the end of said recess, a block hinged to the remaining back face of the recess

at the line of division of said sections, said block normally abutting with said shoulder and closing said removed section, a caster wheel and finger grip mounted on the rearwardly disposed face of said block, a fastening element carried on that end of said block remote to said hinged connection, a complementary fastening element carried on the end wall of said removed rear face section adjacent said shoulder retaining said block in closed disposition, and a second fastening element complementary to that element carried by said block secured to the end of said recess adjacent the closed section of said rear face to removably secure said block face flush with said remaining section and presenting the caster beyond the front face of the side member of the furniture structure.

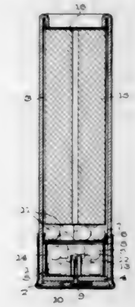
2,529,790
THERMAL AND CATALYTIC CRACKING OF HYDROCARBONS
Paul M. Waddill, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 30, 1947, Serial No. 794,555
3 Claims. (Cl. 196—49)



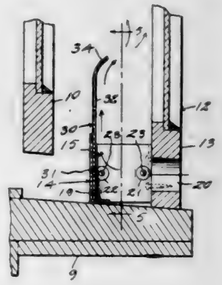
1. A process for the conversion of hydrocarbons which comprises thermally cracking a hydrocarbon oil, separating the non-vaporized residue from the thermally cracked oil, flashing a lighter gas oil portion from said residue and admixing said portion in liquid phase with the hydrocarbon oil before subjecting it to said thermal cracking, catalytically cracking all of the non-residual portion of the thermally cracked hydrocarbons in a first catalyst zone, recovering an intermediate hydrocarbon fraction from the catalytically cracked hydrocarbons directly passing said fraction to another catalyst zone and therein cracking said portion under more severe conditions of temperature than those in first mentioned zone.

2,529,791
POWER GAS GENERATING CARTRIDGE
Edward Whitworth, West Kilbride, and Thomas Thomson, Kilmarnock, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application November 26, 1946, Serial No. 712,268
In Great Britain November 26, 1945
8 Claims. (Cl. 102—39)

2. A power gas generating blank cartridge of the type wherein there is provided, in the proximity of an exposed portion of an ignition means at the cartridge base, a partition of combustible material extending across the cartridge and bearing on its proximal side a deflagrating powder coating capable of direct ignition by said ignition means and of igniting a portion of the combustible charge disposed on said proximal side of the partition characterized in that said partition is provided with at least one perforation.

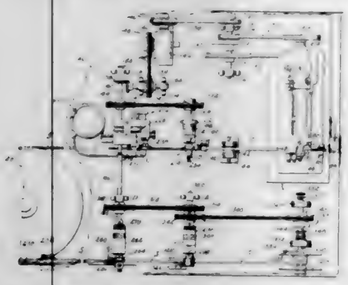


2,529,792
STORM SASH VENTILATOR AND DEFLECTOR
William Wityaz and Frank Kendra, Chicago, Ill.
Application February 14, 1947, Serial No. 728,454
2 Claims. (Cl. 98—97)



1. In combination with a window sash having a bottom rail provided with at least one vent opening, a housing secured to the inner side of said sash rail and with which said vent opening communicates at its inner end, said housing having an inner side wall spaced from said sash rail and an open top, a combination closure and deflector plate insertable through said open top of the housing, a first means connected to and disposed in said housing adjacent the sash rail to engage and press a portion of the plate against the inner side of the sash rail for closing said vent opening, a second means connected to and disposed in said housing adjacent said inner side wall to engage and hold said plate portion against the inner side wall and out of engagement with the sash rail for admitting air to the housing through the vent opening, and said plate having a deflector portion extending upwardly from the housing and curved toward the sash, when the plate is disposed against said inner side wall, for deflecting the air rising from the housing back toward the window sash, said housing having end walls disposed substantially perpendicular to said sash rail and inner side wall, said first means and second means each comprising a pair of rollers journaled in the housing on said end walls.

2,529,793
APPARATUS AND METHOD FOR USE IN MAKING RIBBED STRIPS FOR INSOLES
Frederic E. Bertrand, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 30, 1946, Serial No. 658,378
11 Claims. (Cl. 154—1.8)

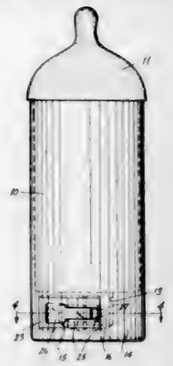


1. In an apparatus for use in the manufacture of ribbed strips, comprising a plurality of layers, adapted for attachment to insoles to provide sewing ribs thereon, the combination of a folder provided with a guideway for a multi-ply strip, mechanism carried by the folder for folding layers of the strip toward each other while holding another layer in an unfolded condition, a plurality of rolls for drawing the strip progressively through the guideway and folding mechanism and for thereafter pressing the folded layers together to form a rib, means for applying cement to portions of the strip, and means for attaching a separate strip of material to the cemented portions of the strip to reinforce said strip.

10. That improvement in methods of making ribbed strips adapted for attachment to insoles to form sewing ribs thereon which consists in providing a strip comprising a plurality of superimposed layers of indefinite length stitched together along their mid portions, moving the multi-ply strip in a predetermined path, folding the free margins of the upper layers of the strip toward each other during such movement while holding the lower layer in an unfolded condition, progressively pressing the folded portions of said upper layers together during said movement to form an upstanding rib while maintaining the lower layer in a substantially flat position to form a base for said rib, guiding a reinforcing layer progressively to the inner side of the rib and to the surface of the base layer adjacent to said inner side and securing the reinforcing layer to said inner side and adjacent surface, said reinforcing layer extending beyond said adjacent surface to provide a reinforcement for the insole, and pressing the strip to bend the upstanding rib downwardly against the base layer and thereby to cause the rib thereafter to assume a permanently inclined position relatively to said base layer.

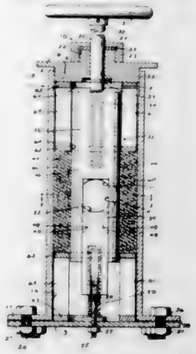
2,529,794
VALVED NURSING BOTTLE
Abner E. Brown, Richmond Heights, Mo.
Application June 2, 1947, Serial No. 751,746
15 Claims. (Cl. 215—11)

3. In a nursing bottle, a port adjacent the bottom thereof, a valve mechanism for controlling flow through said port including valve actuating means, said valve actuating means including an operating member engageable and operatable by a digit of a hand holding the bottle, said operating member being pivotally supported upon the bottle on a pivot fixed relative to the valve mechanism and having an end engageable by the digit for the pivoting operation, and means associated with the operating member for causing



opening of the valve when the operating member is pivoted to one position and closing of the valve when it is pivoted to another position, said operating member remaining in either position until manually moved to the other position.

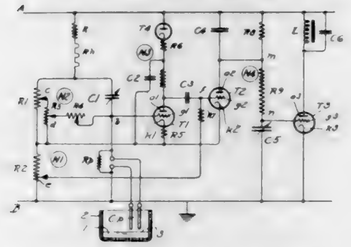
2,529,795
VALVE
Melvin L. Bryer, Beeville, Tex.
Application September 26, 1947, Serial No. 776,172
7 Claims. (Cl. 251—62)



1. In a valve, the combination with a valve structure wall, having a pair of axially aligned ports, a valve assembly including a cylindrical gate section having end walls and an arcuate side wall and an elongated slot extending from the the end wall, toward the opposite end wall and falling short of this opposite end wall, providing a slot bottom disposed outwardly of the planes of said ports when said valve is open, said slot opening into said side walls and having its longitudinal axis intersecting the axes of said ports, a follower section, slidably carried by the gate section, having a slot bottom-facing surface and a face facing said valve structure wall, means urging said follower section longitudinally along said slot toward said slot bottom, means preventing rotation of said gate section with respect to said follower section, and means limiting movement

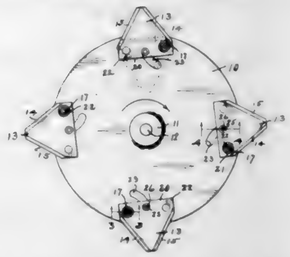
of said follower section toward said slot bottom, whereby a fluid passageway is provided defined by said ports, said slot bottom, said surface and the adjacent portions of the walls of said slot adjacent and extending to said slot bottom, said last-named means, in conjunction with said valve structure wall, said follower and the walls of said slot, also preventing rotation of said follower section with respect to said gate section and said valve structure wall.

2,529,796
ELECTRONIC CONTROL APPARATUS
Phillip J. Cade, Cambridge, Mass., assignor to Photoswitch, Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application May 12, 1944, Serial No. 535,361
14 Claims. (Cl. 250—27)



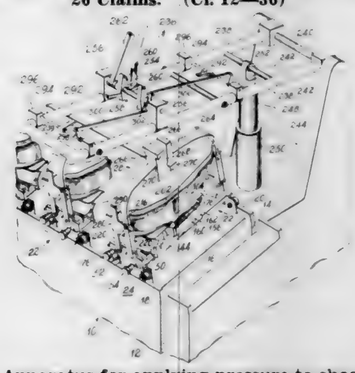
12. Electronic apparatus for detecting changes of a supervising impedance comprising: an alternating current source having first and second terminals, a detecting bridge network including two series connected resistance arms connected across said source and two series connected capacitance arms connected across said source, one capacitance arm consisting of a capacitance probe adapted for immersion in the material whose level is to be supervised; a shunting resistor connected between the junction point of said resistance arms and a variable tap on one of said resistance arms, and a grid return resistor connected between the junction point of said capacitance arms and a variable tap on said shunting resistor; a first electron discharge device having a control electrode connected to said grid return resistor; and a cathode connected to a point between said resistance arms; a rectifier and a filter network in the anode connection of said discharge device; a second electron discharge device having a control grid, an anode connected to said first terminal and a cathode connected to a point between said two resistance arms; a capacitor arranged for coupling the control grid of said second device to the output circuit of said first device; a biasing network connected to said source and including in series connection a low resistance connected to said first terminal, a high resistance, and a low impedance condenser connected to said second terminal, and a capacitor shunting said low resistance, the anode connection of said second device being through said parallel-connected shunting capacitor and low resistance; and a third electron discharge device having an output circuit connected to said source, a load impedance in said output circuit, and a control grid connected to a point between said high resistance and said low impedance capacitor, so that the charge on said low impedance capacitor, resulting from an increase in the conductivity of said second device, applies to said last named control grid a voltage tending to render said third device less conductive.

2,529,797
MOWER WITH YIELDINGLY RETRACTABLE KNIVES
Raymond R. Cauble, Indianapolis, Ind.
Application June 7, 1946, Serial No. 675,059
2 Claims. (Cl. 56—295)



1. In a rotary cutter, a rotatable disk; a cutter section; means for pivotally attaching the section to said disk whereby a portion of the section may extend beyond the periphery of said disk; said attaching means engaging said section to one side of the central axis of the section, the center of mass being on said axis; whereby the weight distribution of the section thereabout is such as to cause the section to swing on said pivot means under centrifugal action induced by rotation of said disk to provide such extension beyond the disk; said attaching means being fixed in location in respect to both said disk and said section; and stop means limiting said swinging; said stop means comprising a pair of spaced apart abutments on said disk, and an abutment on said section between said pivot means and said cutting edge to swing between said disk abutments in an arc, the center of the radius of curvature of which is at said attaching means.

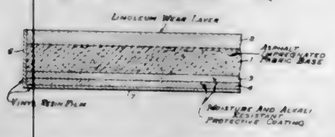
2,529,798
MACHINE FOR APPLYING PRESSURE TO SHOE BOTTOMS
Frank E. Cole, Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 5, 1947, Serial No. 726,609
26 Claims. (Cl. 12—36)



1. Apparatus for applying pressure to shoe bottoms comprising a supporting table, a plurality of press members carried by said table for movement into and out of a loading station thereon, each of said press members comprising means for supporting a shoe in inverted position and a

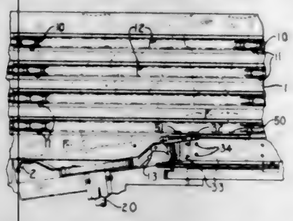
pressure-applying pad engageable with the bottom of a shoe on the supporting means, and power-operated means at said loading station independent of the movement of the press members for lifting a pad out of engagement with the bottom of a shoe on the associated supporting means.

2,529,799
MOISTURE RESISTANT COVERING MATERIAL
Harold W. Crockett, Berkeley, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a corporation of Delaware
Application July 6, 1948, Serial No. 37,118
3 Claims. (Cl. 154—49)



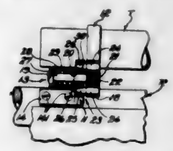
1. Covering material comprising a fibrous foundation sheet impregnated with a waterproofing agent, a top linoleum wear layer, a vinyl chloride-vinyl acetate copolymer resin providing a moisture impervious film on the back of such sheet, and a moisture and alkali resistant coating between said moisture impervious film and said sheet; said coating comprising the reaction product of a fatty acid pitch and an oil reactive synthetic resin, and containing a moisture and alkali resistant mineral filler.

2,529,800
FEEDER GAUGING MEANS FOR FISH DRESSING MACHINES
Alvin L. Erickson, Seattle, Wash., assignor to Smith Cannery Machines Company, Seattle, Wash., a corporation of Washington
Application October 21, 1940, Serial No. 362,080
30 Claims. (Cl. 17—2)



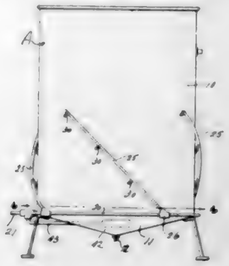
1. A feeder table for fish dressing machines comprising means to support and advance the fish flatwise and disposed crosswise of the direction of advance to and past a beheading point, a rail disposed generally parallel to the direction of advance, directed in general towards the beheading point, and projecting within the fish's path of advance to engage the rear edge of the pectoral girdle, the rail at a point in advance of the registry point, having a section which is inclined to shift the fish, if the latter is withdrawn too far towards its tail end, by engagement with the pectoral girdle in the direction of its length and toward its head end, said rail, including its inclined section, being so located, and terminating at such point, relative to the beheading point, that such engagement will guide the fish properly to the beheading point, and fixedly positioned means spaced from and parallel to the inclined section, to engage the rear edge of the opposite side of the pectoral girdle, and cooperating with the inclined rail section to shift the fish as it advances, bodily towards its head end, if necessary to effect proper registry.

2,529,801
HINGED TELESCOPE GUN SIGHT MOUNT
George D. Fisk, Bellflower, Calif.
Application March 31, 1947, Serial No. 738,287
6 Claims. (Cl. 33—50)



1. A mount for a telescope gun sight comprising a first member attachable to a gun, a second member attachable to a telescope, said members having adjacent connecting lugs projecting transversely from the gun and telescope respectively and received one behind the other, means connecting said second member to the first through said lugs for relative swinging movement about an axis extending longitudinally of the gun barrel and for limited movement in the direction of said axis, whereby the telescope may be swung about said axis between a sighting position above the gun and a retracted position at the side of the gun, one of said lugs having a pair of openings spaced angularly about said axis and located a common radial distance therefrom, a pin projecting axially from the other lug at said distance from the axis and movable axially into one of said openings in the sighting position of the telescope and into the second opening in its retracted position, and yielding means urging said lugs axially together to move the pin into the openings in said two positions respectively.

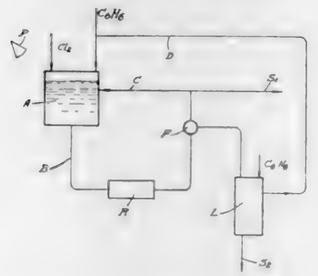
2,529,802
CLEANING MACHINE FOR DRY AND WET CLEANING OF GARMENTS AND THE LIKE
Willie F. Glass, Gulfport, Miss.
Application July 1, 1946, Serial No. 680,693
2 Claims. (Cl. 68—183)



1. In a washing machine the combination of an elongated, upstanding cylindrical container having a compartment therein, means for admitting a washing liquid to the compartment, pressure fluid supplying means, including a pipeline encircling the container adjacent the bottom thereof, riser conduits extending therefrom and inclined to the longitudinal axis of the container

and extending upwardly along its outer surface, spaced-apart laterals extending from each riser conduit and opening into said compartment, and other conduits opening into the compartment and extending radially from said pipeline.

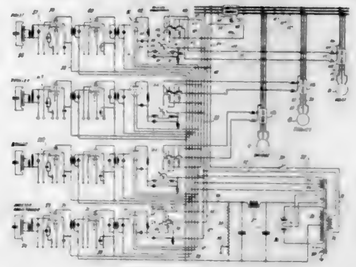
2,529,803
PHOTOCHEMICAL PREPARATION OF γ BENZENE HEXACHLORIDE
Max Gonze, Forest-Brussels, Belgium, assignor to "Solvay & Cie," Brussels, Belgium, a Belgian Company
Application August 23, 1946, Serial No. 692,722
In Belgium September 24, 1945
8 Claims. (Cl. 204—163)



1. A process of producing a concentrated solution of γ benzene hexachloride in benzene, comprising introducing into a vat containing benzene a quantity of chlorine gas sufficient to obtain a solution approximately saturated with γ isomer, the reaction being carried out under the influence of light, continuously circulating the reacting liquid from said vat to a crystallizer and back into said vat, cooling the liquid in said crystallizer, separating the crystals of the α and β isomers in said crystallizer, washing said crystals with fresh benzene, and using the washing solution as starting material for further chlorination, the liquid at the end of the chlorination comprising a concentrated solution approximately saturated with γ isomer.

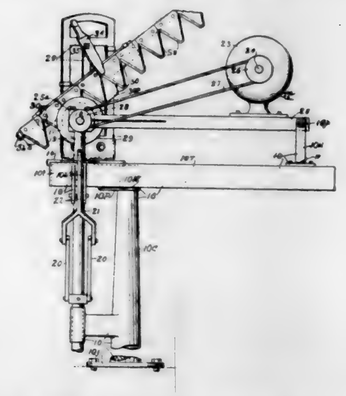
2,529,804
REMOTE HOIST CONTROL
Walter Harnischfeger, Milwaukee, and Glenn Koehler, Madison, Wis.
Application April 27, 1946, Serial No. 665,362
6 Claims. (Cl. 250—2)

5. In a remotely controllable power unit a transmitter adapted to transmit a continuous signal subject to manually selected series of interruption pulses of predetermined duration, spacing, and number of pulses; a receiver responsive to the signal transmitted by said transmitter; a receiver operated relay means; a main power switch activated by said relay means adapted to complete a power circuit to an operating unit as long as a signal is being transmitted and received; a selector switch having means for selectively completing a plurality of circuits, an advancing magnet, retaining means and a clearing magnet adapted to act upon said retaining means to cause said selector switch to return to a home position; circuit connections between said relay means and said selector switch magnets adapted to cause said selector switch to move to complete predetermined circuits in response to series of predetermined numbers of pulse interruptions; a plurality of control circuits adapted to be selectively completed by said selector switch; and an operating unit connected



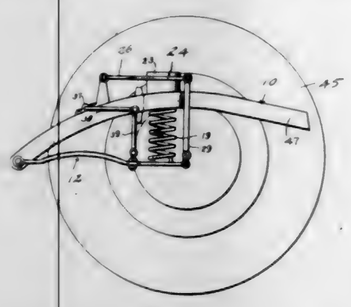
to be supplied with power through said main power switch and adapted to be controlled as to its operating condition by said control circuits completed by said selector switch.

2,529,805
MACHINE-SICKLE SHARPENER
Ira Hunter, Carlisle, Ky., assignor of one-half to Ivan S. Kendall, Carlisle, Ky.
Application March 12, 1947, Serial No. 737,113
4 Claims. (Cl. 51—56)



1. In a sickle-supporting mechanism, the combination of a normally upright frame, an elongated sickle-receiving clamp-jaw having its middle portion mounted on the upright frame by a pivot so it is adapted to be adjusted from a horizontal position to different oppositely inclined positions, abutments mounted on said upright frame and adapted to be adjusted upward and downward and caused to abut against said clamp-jaw at opposite sides of said pivot, means to secure said abutments in their various adjusted positions and thereby cooperate with said pivot to secure said clamp-jaw in its various adjusted positions, a second clamp-jaw pivotally mounted on said upright frame and adapted to be swung on its pivotal mounting so as to be pressed against elected parts of a sickle when the latter is seated on the sickle-receiving clamp-jaw, and manipulative means to apply and release pressure of said second clamp-jaw.

2,529,806
VEHICLE SUSPENSION
Joseph Konopka and Edward J. Konopka, Detroit, Mich.
Application May 22, 1947, Serial No. 749,644
1 Claim. (Cl. 267—20)

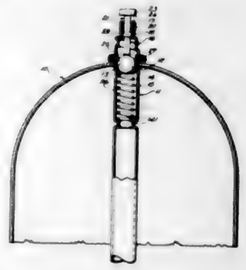


A wheel suspension means for the frame or chassis of a vehicle comprising a transversely disposed horizontal bar fixed between the longitudinal side members of said frame, said side members formed with openings along the length thereof, a rock lever carried by said bar adjacent each of the side members and extending along the length of said frame, each said lever being formed of a rear plate, a pair of divergent arms integral with said plate and pivotally engaging said bar, a downwardly opening socket for each lever fixed to said frame above said opening, an upstanding annular flange carried by said plate, a downwardly extending spring between each socket and lever and engaging at its lower end about said flange, a second lever associated with each of said first named levers and engaging about said socket, means rockably mounting said second lever on the upper side of said frame, a pair of links pivotally connected between each of said first named lever and said second lever, and a wheel spindle carried by one of said links.

2,529,807
HAIRSPRING COLLET
Fritz Marti, La Chaux de Fonds, Switzerland
Application March 28, 1946, Serial No. 657,874
In Switzerland May 5, 1945
2 Claims. (Cl. 58—115)

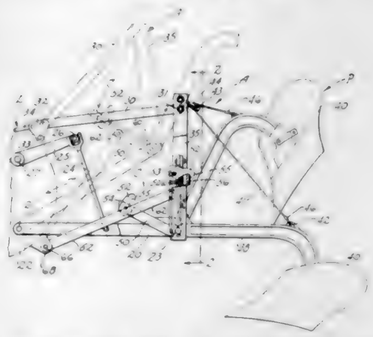
1. In combination with a balance-wheel staff, a hair spring, a collet having the form of a sleeve provided with a side wall and adapted to be thrust on the balance-wheel staff, and having two lateral notches in said side wall to let pass the inner end of the hair spring, a U-shaped member comprising two branches connected by a transverse bar rotatably mounted within said sleeve, said member being adapted to clamp upon rotation thereof the hair spring between its transverse bar and the inner wall of said sleeve.

2,529,808
VALVE DEVICE FOR PRESSURE FLUID CONTAINERS
Earnest E. Martin, Pasadena, Calif., assignor to Universal Properties, Inc., Los Angeles, Calif., a corporation of California
Application September 24, 1946, Serial No. 698,925
16 Claims. (Cl. 222—394)



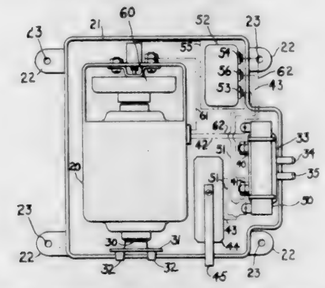
1. The combination comprising a siphon tube for pressure fluid containers, and a check valve in said tube, the entire thickness of the wall of the tube being annularly deformed to present an inside annular shoulder against which the valve seats to prevent fluid discharge from the container.

2,529,809
AUTOMATIC POWER LIFT TRIP FOR TWO-WAY PLOWS
William Fisk Mellen, Whittier, Calif., assignor to Alice Marian Mellen, Whittier, Calif.
Application November 24, 1947, Serial No. 787,724
16 Claims. (Cl. 97—29)



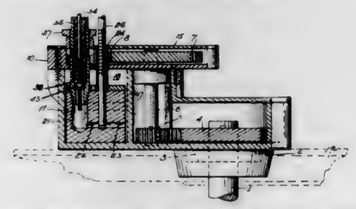
1. In a two-way plow: plow beams respectively carrying oppositely pitched plow bottoms adapted to be simultaneously raised and lowered respectively; a frame upon which said beams are swingingly mounted for vertical movement of said plow bottoms; means for supporting said frame and plow bottoms upon a tractor for automatic raising and lowering of the frame and plow bottoms as a unit by a power lift on the tractor; arms respectively connected with said beams and their plow bottoms for swinging the latter on said frame; bracket means to be mounted on the tractor; link means mounted upon said bracket means; means for operatively and alternately connecting said link means with said arms for alternate swinging of said plow bottoms when said frame is raised; and shiftable means included in said connecting means for alternate engagement with said arms to connect said link means thereto to cause said arms to swing said plow bottoms through raising of said frame.

2,529,810
POWER UNIT
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 30, 1945, Serial No. 607,825
11 Claims. (Cl. 235—62)



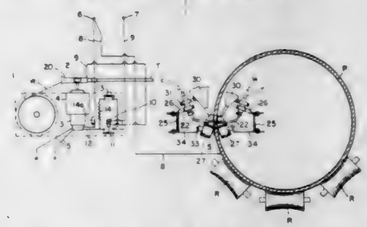
1. The combination with a calculating machine or the like having a base and calculating mechanism mounted on said base, said base having an aperture therein, of an electrical power unit to supply said power for driving the mechanism comprising a plurality of electrical elements including a motor and a switch therefor mounted on a unitary support, and wiring for connecting said elements in circuit, said wiring being contained within said unit, said unit being adapted to be introduced through said aperture for installation in said machine and to be withdrawn through said aperture for removal from the machine, a coupling member on said motor, a coupling member connected to said mechanism, and orienting means for determining the relative positions of said base and said support when said unit is introduced through said aperture, said coupling members being so located relative to said base and said support respectively as to be placed in mutual driving engagement when the relative positions of said base and support are determined by said orienting means.

2,529,811
GEAR PUMP BRAKE FOR REVOLVING DOORS
Holger G. E. Nordin, Chicago, Ill.
Application August 8, 1946, Serial No. 689,080
3 Claims. (Cl. 188—92)



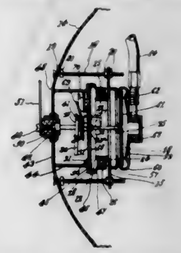
1. In fluid brakes for revolving doors, a housing, a fluid reservoir in said housing, a pump immersed in said reservoir, ducts in said pump communicating with said reservoir, a needle valve leading into said pump controlling the liquid flow through one of said ducts, a sleeve in said housing extending through said reservoir into said pump communicating with one of said ducts, a valve seat in said sleeve, said sleeve formed with opposed perforations opening into said reservoir, a valve casing in said sleeve formed with a valve port in its base and with opposed perforations and an annular recess in registry with said sleeve perforations, a pressure sensitive valve connecting said sleeve and valve casing controlling the flow of liquid through said members, said valve yieldingly seating in said valve port but normally disposed upon said valve seat, and manually operable means for adjusting said pressure valve.

2,529,812
METHOD OF AND APPARATUS FOR ARC WELDING
Vladimir Peters, Lakewood, Ohio, assignor to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio
Application June 5, 1948, Serial No. 31,314
18 Claims. (Cl. 219—10)



1. In a method of forming a welded seam confined between two juxtaposed metallic work-piece edges, the steps which consist in simultaneously traversing the line of juncture between such edges with two electric arcs, one on each side of the seam to be formed and substantially opposite to each other, and providing metal to form the seam simultaneously from opposite sides thereof and in amount approximately sufficient to fill the space between such edges, such arcs being respectively capable of fusing such seam to more than half the depth thereof, whereby a common pool of molten metal is formed by their conjoint action.

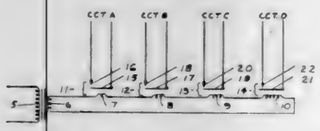
2,529,813
TIRE PRESSURE GAUGE
Clarence Poe Potts, Macon, Ga., assignor to Safety Tire Gauge, Inc., Atlanta, Ga., a corporation of Georgia
Application January 16, 1948, Serial No. 2,729
3 Claims. (Cl. 200—58)



2. For use with a vehicle wheel body having a valved tire thereon and a hub cap mounted on

the wheel body, a tire pressure gauge comprising a rotatable member, means adapted to be attached to the hub cap for supporting said member for rotation with said hub cap, a non-rotatable member supported by said rotatable member, means for holding said non-rotatable member against rotation, an electrical contact assembly supported by the non-rotatable member and including a flexible contact, a plunger carried by said flexible contact and a second flexible contact adapted to be engaged by the first flexible contact, means carried by the rotatable member and actuated by the pressure in the tire for moving said plunger and first flexible contact into engagement with the second flexible contact, and an adjustable cam carried by the non-rotatable member for adjusting the position of the second flexible contact towards and from the first flexible contact.

2,529,814
RESONANT SWITCH SYSTEM
Harry Reifel, Waltham, Mass., assignor, by mesne assignments, to Stevens-Arnold Inc., Boston, Mass., a corporation of Massachusetts
Application August 14, 1946, Serial No. 690,389
4 Claims. (Cl. 175—320)

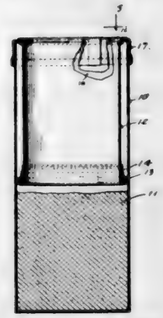


1. A resonant switch system comprising a first resonant armature, a first contact touched by said armature when it is vibrated at its resonant frequency, a second armature resonant at a frequency higher than that to which said first armature is resonant, a second contact touched by said second armature when it is vibrated at its resonant frequency, a first energizing winding for said first armature, and a second energizing winding for said second armature connected in series with said first winding, said second winding having more turns than said first winding.

2,529,815
KEY IDENTIFICATION MEANS
Walter F. Rothe, Washington, D. C.
Original application July 25, 1946, Serial No. 686,129. Divided and this application December 16, 1947, Serial No. 791,983
2 Claims. (Cl. 40—2)

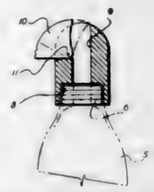
1. In a key head, an indicating concavo-convex skeleton character formed in said head, the convex side of said character on one side of the head providing a raised surface above the body of the head, said raised surface following the skeleton contour of the character on its convex side, to thereby be distinguishable by touch, and a channel formed in the reverse concave side of said character opposite to said raised convex surface and following the skeleton contour of the character in the head on its concave side, and a luminous surface on the bottom surface of said channel adapted to be visible in the dark.

2,529,816
ICE CREAM CONTAINER INSERT
Leroy Charles Rowe, Elkworth, Mich.
Application January 27, 1948, Serial No. 4,612
1 Claim. (Cl. 220—63)



An ice cream container, a sleeve protecting liner for the upper portion only thereof comprising a flexible cylindrical inner liner, a split band of flexible material secured to the top of said liner, said band extending downwardly on the outside of the upper end of the container, the bottom edge of said liner being reverted and stitched to provide a hem, and a resilient metal split ring carried by the lower end of said liner within said hem and adapted to expand said lower end outwardly for engagement with the inner surface of the container to hold said lower end against upward movement.

2,529,817
DISPENSING CLOSURE
T. J. Duke Russell, Studio City, Calif.
Application June 22, 1945, Serial No. 600,854
1 Claim. (Cl. 222—556)

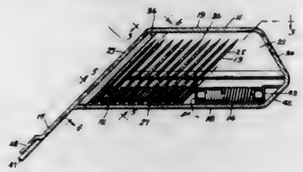


A closure for containers, comprising a body adapted to be mounted on a container, said body being circular in cross section, having a dome-shaped outer end and an opening therethrough for passage of material to be dispensed, said opening being square in cross section at the outer end portion thereof, said body having a longitudinal slot extending inwardly of the outer end thereof and extending through the wall of the body from said opening to the outside of said body, said body forming a planar ledge at the inner end of the slot, and a substantially quadrant-shaped plate-like closure element for said opening pivotally mounted in said slot about an axis located inwardly of the outside of said body and immediately above said ledge, said closure element fitting said slot sufficiently tightly to remain in adjusted position and being so mounted that when in outward position the opening through said body is unobstructed and one of the radii edges of the element forms a continuation of the wall of said opening and the other extends radially outward of said opening beyond the outer wall of said body, said ledge forming a stop for said other of said radii edges, the arcuate edge of said closure element extending beyond the outside of said body whereby the same may be readily engaged by a person desiring to operate the closure, said closure element being pivotally movable to an inward position whereby the end of the first mentioned radii edge contacts the opposite wall of said opening at its outer end to close said opening.

2,529,818
LEATHER SHOE PART BLANK AND METHOD OF MAKING
George F. Ryan, Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 24, 1948, Serial No. 67,115
4 Claims. (Cl. 36—27)

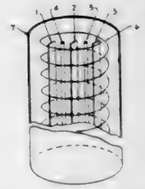
2. The method of preparing a leather outsole for use in a spring heel shoe which comprises moistening a flat leather outsole blank, inserting longitudinally extending staples therein so that they bridge that portion of the outsole which is to underlie the breast of the heel of the shoe to which the outsole is to be attached, molding the outsole blank with the staples therein, releasing the blank from the molding pressure, permitting the blank to dry and then removing the staples.

2,529,819
RAZOR BLADE MAGAZINE
Justin Simon, Brooklyn, and Richard S. Temko, New York, N. Y.
Application June 9, 1945, Serial No. 598,442
4 Claims. (Cl. 206—16)



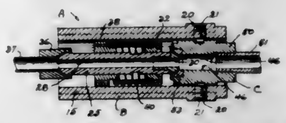
1. Razor blade magazine construction for use with a stack of blades, said stack having a central longitudinal stack axis which extends through all of the blades in the stack, each of said blades being movable axially with respect to said stack axis in a first direction, in a second direction parallel to the cutting edge thereof, and in a third direction which is substantially in the plane of the blade and at an angle with respect to said second direction, said construction comprising; a casing within which the stack of blades is contained having a discharge opening, said opening having a central opening axis which is substantially perpendicular to the portion of the casing wherein said opening is located; each blade lying in a plane substantially perpendicular to said portion of the casing; means to urge the blades in said first direction simultaneously in the general direction of said opening and said stack axis, said opening axis being askew with respect to said stack axis; and ejector means for shifting a blade from said stack in said second direction so that the central axis of said blade which is substantially perpendicular to the principal planar surfaces thereof may take a position wherein said blade axis intersects said opening axis; said first mentioned means acting to move said last mentioned blade into alignment with said discharge opening; whereby the blade aligned with the discharge opening may pass outwardly from the casing therethrough.

2,529,820
ELECTRON TUBE STRUCTURE
Joseph C. Smiley, Jr., Philadelphia, Pa., assignor of one-half to Donald T. Wilson, Philadelphia, Pa.
Application May 23, 1949, Serial No. 94,910
12 Claims. (Cl. 250—27.5)



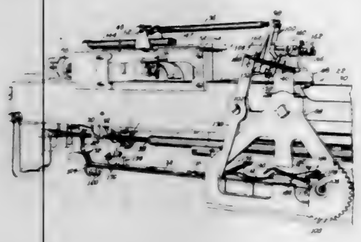
1. In an electron tube of a type applicable to various circuit arrangements and the use of a separate heated cathode in the grid and anode circuits, comprising a control-grid and encircling anode, a structure positioned within enclosure formed by said control-grid, parallel to and in isolated relation to said control-grid, of three relatively spaced grid circuit unheated cathodes with an interposed grid circuit indirectly heated cathode and an interposed anode circuit indirectly heated cathode, said grid circuit unheated cathodes co-acting with said grid circuit indirectly heated cathode at cathode end of grid circuit to obtain a grid circuit separate from anode circuit through electron stream within tube envelope.

2,529,821
HIGH-PRESSURE COUPLING
Kenneth M. Snider, Mansfield, Ohio, assignor of one-half to Marion A. Knapp, Mansfield, Ohio
Application May 9, 1947, Serial No. 747,096
6 Claims. (Cl. 285—178)



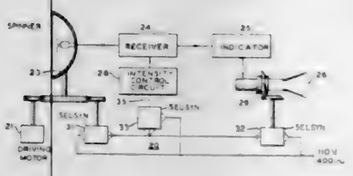
1. In couplings, a first coupling part including a cylindrical portion provided with a projection extending into the passageway therein, a second coupling part having an outer end, an inner end, an outer face and a groove in said outer face, provided with a mouth opening into said outer end and falling short of said inner end, said groove being a true helix from its mouth to substantially its inner end, and being constructed and arranged to receive said projection, and means carried by said first coupling part tending to force said second coupling part outwardly of said first coupling part when said projection is at the inner end of said groove.

2,529,822
CHARGER FOR AUTOMATIC GUNS
Ernest W. Stacey, Beverly, and Augustus D. Willhauck, Stoneham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 2, 1946, Serial No. 659,053
7 Claims. (Cl. 89—1)



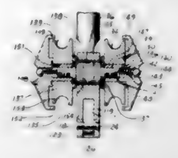
1. In combination with an automatic gun provided with a receiver, a feeder for delivering cartridges to the receiver, a breech block, a lock frame movable from battery to recoil position to effect movement of the breech block away from battery position and to provide a space for delivery of a cartridge to the receiver, and means for temporarily holding the lock frame in recoil position; a charger comprising an actuator movable in one direction to move the lock frame from battery to recoil position in which it is temporarily held by said means, and connections which are associated with said actuator and said feeder and are movable in timed relation with said actuator for operating said feeder while the lock frame is in its recoil position to cause a cartridge to be fed to the receiver and to cause the releasing of the lock frame preparatory to chambering said cartridge.

2,529,823
PLAN POSITION INDICATOR
Merle A. Starr, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 9, 1945, Serial No. 592,799
7 Claims. (Cl. 343—118)



1. A radar receiving system, including a rotatable antenna for receiving signals, a means for amplifying said signals, a cathode ray tube connected to be illuminated by the amplified signals, means for producing a voltage whose magnitude depends on the rate of rotation of said antenna, a means for controlling the gain of said amplifying means and being so connected to said voltage producing means that the signal illumination intensity of said cathode ray tube will remain substantially unchanged during changes in the rate of rotation of said antenna.

2,529,824
DENTAL HAND PIECE
Martin Staunt, Chicago, Ill.
Application March 13, 1947, Serial No. 734,383
2 Claims. (Cl. 32—26)

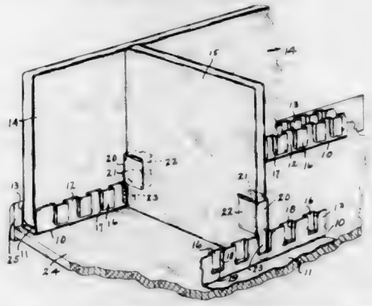


1. In an improved wrist joint, the combination of a solid metal body of rounded triangular shape provided with a through bore at one side and having a pair of parallel flanges separated by a slot at each of its ends, a metal shaft having a longitudinally knurled cylindrical surface having a pressed fit in said through bore, wrist joint members pivoted between said flanges in said slots, said shaft having a reduced threaded portion at each of its ends, a combined guard and trunnion member for each end of said shaft, said members each having a cylindrical portion threaded on the shaft to form a trunnion, and having an integral radially extending guard body acting as a thrust bearing, each of said trunnions rotatably supporting a circular pulley having a partially circular groove in the periphery of each pulley bordered by radially projecting edge flanges, said guard having a substantially cylindrical guard flange extending axially over the adjacent edge flange of the pulley in position to prevent the pulley belt from getting in between the pulley and the guard.

2,529,825
PREPARATION OF CYCLIC 1,2-KETOLS HAVING 10 TO 18 CARBON ATOMS IN RING
Max Stoll, Geneva, Switzerland, assignor to Firmenich & Co., successeurs de la societe anonyme M. Naef & Cie., Geneva, Switzerland, a corporation of Switzerland
No Drawing. Application December 6, 1946, Serial No. 714,650
8 Claims. (Cl. 260—586)

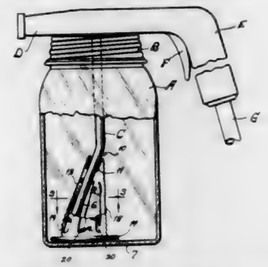
1. Process for preparing a solid crystalline cyclic 1,2-ketol, having 10 to 18 carbon atoms in the cycle, crystallizable to a substantially pure white solid crystalline product having a definite melting point by internal condensation of a lower monohydric aliphatic alcohol ester of an open chain dicarboxylic acid having a chain length including the carboxyl-carbons of 10 to 18 carbon atoms, comprising reacting in an apparatus from which all oxygen has been displaced by a boiling solvent and a substantially oxygen free inert gas, by slowly adding the open chain ester in said continuously maintained inert atmosphere to a mixture of melted and finely divided alkali metal with a dry low boiling inert solvent while thoroughly stirring and refluxing the same, decomposing the metallic derivative formed, neutralizing and washing all in a similarly oxygen free inert atmosphere and maintaining the weight ratio of the total quantity of oxygen present in the reaction mixture during the entire operation to the total quantity of ester reactant less than the limit of 1:1000.

2,529,826
COUNTER PARTITION HOLDER
Carl R. Walker, Indianapolis, Ind., assignor to Syndicate Glass, Inc., Indianapolis, Ind., a corporation of Indiana
Application February 15, 1947, Serial No. 728,855
3 Claims. (Cl. 312—140)



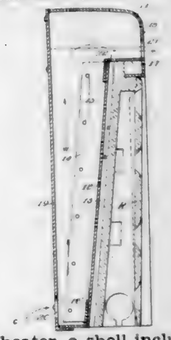
1. For a supporting wall and partition panels, the combination of a pair of yielding wall and panel engaging members; a tongue rigidly extending downwardly from said members; an elongated member in the nature of a trough opening from its upper side, having spaced side walls normally inclined, elastically inwardly one toward the other to receive compressively between those walls a panel, and said elongated member having a bottom web uniting the lower portions of said trough side wall; and a plurality of wall sections extended at longitudinally spaced intervals along and outwardly from at least one of said trough walls a distance equal substantially to the thickness of said tongue, said extended sections terminating above the lower end of said trough wall a distance to permit said tongue to lap over that wall portion below said section when inserted therebehind.

2,529,827
SCREEN FOR PAINT GUNS
John D. Yarnell, Seattle, Wash.
Application August 22, 1945, Serial No. 612,062
2 Claims. (Cl. 210—170)



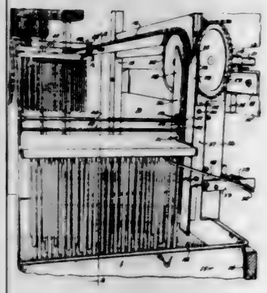
1. A screen for obliquely disposed suction tubes for spraying paint and lacquer liquids from a receptacle, comprising a relatively fine meshed flexible sieve having substantially a conical configuration in outline to prevent the liquid congealing on the top thereof when the supply is lowered, and to screen the material to be sprayed, the apex of the cone being provided with an aperture for entrance of the tube, the edges of the aperture being rolled down and inward for a collar for adjustably retaining the screen upon the tube, one side portion of the cone adjustably disposed upon and along the upper wall of the oblique portion of the tube for support, and the other side portion of the cone being shorter, to permit the cone to be turned around by the tube within the receptacle and above the base thereof when the tube is revolved for attachment to the receptacle top, a bottom sieve attached across the lower edges of the cone walls in spaced relation below the mouth of the tube and above the floor of the receptacle to provide free passage of the liquid from the receptacle through the meshes of the sides and bottom of the cone, the outer edges of the bottom of the cone and the lower edges of the sides thereof being crimped together for attachment and rigidity, and the sides having grooves pressed therein for further rigidity of the cone, while suspended in the receptacle for spraying.

2,529,828
HOT-AIR GAS HEATER WITH RADIANT
George William Zimbelman, Signal Mountain, Tenn., assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn., a corporation of Tennessee
Application March 13, 1946, Serial No. 653,977
2 Claims. (Cl. 126—90)



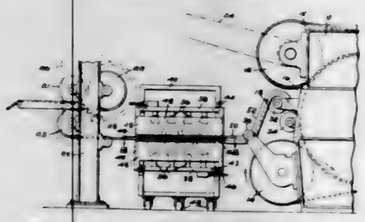
1. In a gas heater, a shell including a vertical rear wall, opposite vertical side walls, a top wall interconnecting the upper edges of the rear and side walls, a front wall depending from the front edge of the top wall, the lower edge of the front wall defining the upper edge of a front opening in the shell, and a horizontal wall disposed below the top wall and extending rearwardly from the front wall and terminating between same and the rear wall, a sheet steel back wall mounted between the side walls and beneath the horizontal wall in spaced relation to the rear wall and providing with said shell walls a chamber, the back wall having spaced parallel ribs defining upright channels in the rear face of the back wall and providing supports for clay radiants set into the shell and also defining vertical air spaces between the back wall and the radiants, apertures in the rear wall adjacent the bottom thereof, apertures in the front wall above the horizontal wall, and apertures in the horizontal wall above the air spaces between the back wall and the radiants, the apertures in the rear and front walls providing for the flow of cool air upwardly along the rear face of the back wall, and the apertures in the horizontal wall providing for the flow of air upwardly between the back wall and radiants and which air becomes heated from contact with the wall and radiants and passes horizontally with the air admitted through the apertures in the rear wall, through the apertures in the front wall.

2,529,829
CANDLE DIPPING MACHINE
Charles T. Banks, Neenah, Wis., assignor to Victrylite Candle Company, Oshkosh, Wis., a corporation of Wisconsin
Application October 5, 1948, Serial No. 52,837
20 Claims. (Cl. 18—24)



1. In a candle dipping machine, the combination of a candle dipping tank, a conveyor; spaced sprockets engaged by said conveyor for causing the same to travel in a substantially U-shaped path above said tank; cam members mounted adjacent said sprockets; a candle-wick suspending frame; and means for suspending said frame from said conveyor, said suspension means coacting with said cams to limit said frame to rectilinear movement only while the portion of the conveyor from which said frame is suspended travels in said substantially U-shaped path.

2,529,830
VULCANIZING METHOD AND APPARATUS
John M. Bierer, Waban, Mass., assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application May 13, 1948, Serial No. 26,807
7 Claims. (Cl. 18—6)

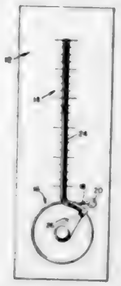


1. In a continuous vulcanizing machine comprising a vulcanizing drum, two rolls adjacent to the drum, and an endless pressure band supported on the rolls and extending therefrom about an arcuate portion of the drum and providing a bite between the band and drum adjacent one of the rolls; mechanism including a plurality of rolls spaced from the drum forwardly of said bite for receiving and elongating sheet strip material to be vulcanized, means including said vulcanizing drum for feeding the elongated sheet strip along and in a path from said mechanism and into the bite said path including a straight portion between said mechanism and drum, and two radiant heaters uniformly spaced from opposite faces of the strip along said straight portion of the path for heating the strip by radiant energy directed onto said faces as the strip passes through said straight portion of the path to the bite.

2,529,831
BLEACHING OF ORGANIC MATERIAL
John D. Brandner, West Walker Township, Schuylkill County, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 3, 1947, Serial No. 745,717
4 Claims. (Cl. 260—345)

3. A process for bleaching an ester of a polyethenoxy ether of sorbitol which comprises reacting said ester with between about 0.05% and about 2% of sodium chlorite contained in an aqueous solution and between about 0.05% and about 0.5% of citric acid contained in an aqueous solution, at a temperature above about 70° C. and no greater than about 120° C.

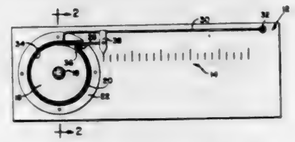
2,529,832
INDICATOR MECHANISM
Adrian Paul Brietzke, La Crosse, Wis., assignor to Northern Engraving & Manufacturing Co., La Crosse, Wis., a corporation of Wisconsin
Application August 27, 1946, Serial No. 693,311
3 Claims. (Cl. 116—135)



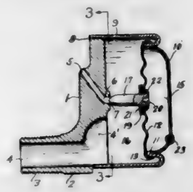
1. An indicator mechanism, comprising a rigid, substantially plane surface supporting member, a vertical dial marking thereon, a substantially rigid wire guide having one end rigidly secured to said supporting member, substantially the remainder of said wire guide being spaced from the plane of said supporting member, the extended end of said wire guide being positioned at and terminating adjacent the lower end of said dial marking and disposed in a line parallel with the plane of said supporting member and directed in the direction of said dial marking, a flexible tubular member surrounding and slidable on said wire guide, said flexible tubular member having sufficient rigidity as to normally sustain itself in straight line form in vertical position and in the absence of applied pressure, and operating means mounted on said supporting member and connected to said flexible member for sliding it on said wire guide and extending it off of and beyond the extended end of said wire guide, whereby said flexible tubular member when extended forms an extension of said extended end of said wire guide and is adapted to follow along said dial marking.

2,529,833
INDICATOR MECHANISM
Adrian Paul Brietzke, La Crosse, Wis., assignor to Northern Engraving & Manufacturing Co., La Crosse, Wis., a corporation of Wisconsin
Application August 27, 1946, Serial No. 693,312
1 Claim. (Cl. 116—135)

An indicator mechanism, comprising, a supporting member, a dial on the supporting member, a rotatable member mounted on the supporting member adjacent one end of the dial, an enclosing member secured to the supporting member in surrounding relation to the periphery of said rotatable member forming an annular space therein, a wire guide secured to said supporting member, said wire guide lying on a line adjacent to and parallel with said dial and having one end adjacent said enclosing member, a pointer slidable on said wire guide, said enclosing member having a tangential opening directed on a line between said wire guide and said dial and parallel therewith, a normally straight flexible member having one end secured to said rotatable member and adapted to coil around the periphery of said rotatable member in said annular space, said flexible member having sufficient rigidity to resume its normal shape in the absence of applied pressure and tending to uncoil from said rotatable member, the cross-sectional dimension of said flexible member being substantially equal to the radial dimension of said annular space, said flexible member adapted to be extended and retracted through said opening on rotation of said rotatable member, the portion of said enclosing member defining said opening guiding said flexible member in a straight line along and adjacent to said dial, the extended end of said flexible member being secured to said pointer, said flexible member, on extension and retraction through said opening, being adapted to slide said pointer along said wire guide and move it along said dial.



2,529,834
AIR VENT VALVE
William W. Carron, Chicago, Ill.
Application January 11, 1947, Serial No. 721,557
2 Claims. (Cl. 236—64)



2. An air vent valve for a heating system, including a peripherally screw threaded mounting head, an integral tubular stem projecting from one side thereof with the outer side of its bore substantially coincident with the periphery of the head, a vent passage through said head, a valve seat surrounding the entrance orifice of the passage at the inner side of the head, an internally screw threaded cup shaped housing engageable with the screw threaded periphery of the head, a concentric inwardly projecting fold in the closed end of the cup shaped housing, a flexible diaphragm, a marginal flange thereon perpendicular to the plane of the diaphragm engaged with the inwardly projecting flange dividing the interior of the housing into two non-intercommunicating chambers, a body of thermally responsive expansible and contractible fluid confined in one of said chambers, a normally open valve member carried by the flexible diaphragm and projected into engagement with the valve seat surrounding the entrance to the vent passage upon deflection of the diaphragm incident to expansion of the confined charge of expansive fluid, the construction and arrangement being such that while the confined body of thermally responsive fluid is normally contracted, the valve member will be normally retracted away from its seat to maintain the vent passage open for escape of air entering the valve chamber through the tubular stem, and upon entrance of heated medium into said chamber and consequent expansion of said confined body of thermally responsive fluid, the deflection of the diaphragm incident thereto will close the vent passage to prevent the escape of heated steam or vapor by which the temperature of the confined body of thermally responsive material has been increased.

2,529,835
METAL-CASTING MOLDS AND PROCESSES AND MATERIALS FOR PRODUCING THE SAME
Manvel C. Dailey, Elmhurst, and Joseph R. Parsons, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 18, 1947, Serial No. 722,954
13 Claims. (Cl. 22—188)

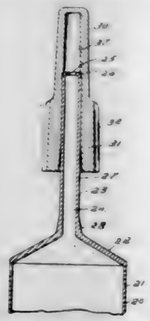
6. Process of producing a highly permeable calcium sulfate metal-casting mold which comprises mixing calcined gypsum and a foaming agent with water to yield a slurry, agitating said slurry to generate gaseous bubbles therein, casting the resulting aerated slurry against a pattern, allowing the thus cast slurry to set, removing it from the pattern, and removing the water therefrom.

9. A mold for casting molten metal, consisting essentially of a body containing a filler, and set calcium sulfate dihydrate crystals that are interlaced and acicular in shape and which body is provided with innumerable individual contiguous voids arranged in foam-like formation, said voids having perforated walls rendering said voids intercommunicating, the surface of said mold intended for contact with molten metal being smooth and merely microporous, and the permeability of said mold lying within the range of from about 0.7 to 250 A. F. A. permeability units.

2,529,836
APPLICATOR FOR TREATMENT OF DISEASES OF THE UDDER
Henry Saulnier Darlington, Media, Pa., assignor to A. H. Wirz, Inc., Chester, Pa., a corporation of Pennsylvania
Application February 20, 1950, Serial No. 145,241
3 Claims. (Cl. 128—261)

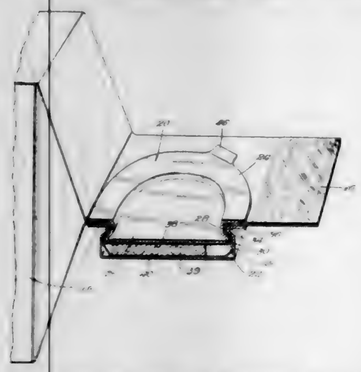
1. An applicator for treatment of diseases of the udder in cattle comprising a collapsible tube, a tip on the collapsible tube of unbroken smooth exterior having an externally tapered portion adjoining the collapsible tube and an elongated smooth tubular extension of uniform outside diameter from the forward end of the tapered portion clear to the end of the tip and a cap on the tip of elastomeric material comprising a thickened hub, a relatively thinner sleeve extending forward of the hub and a closed end wall on the sleeve, the hub and sleeve having an internal bore

substantially as long as the tip which closely conforms to the tip throughout the length and at



least in part has a free inside diameter smaller than the outside diameter of the tip.

2,529,837
DOUBLE COMPARTMENT NESTING BAND PACKAGE
William E. Denison, Chicago, Ill., assignor to Tammen and Denison, Inc., Chicago, Ill., a corporation of Illinois
Application December 10, 1947, Serial No. 790,791
12 Claims. (Cl. 99—171)

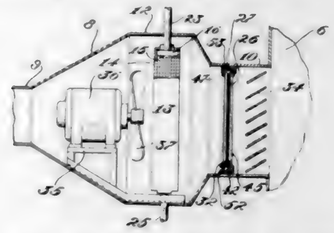


1. A package for holding separate two materials until received by the user comprising an envelope having flexible walls, a band engaging the outside surface of a portion of one wall, and a nesting band engaging the outside surface of a portion of an opposite wall and frictionally seated in the first band so as to form a compartment between the walls of the package lying within and on the same side of the nesting bands and separate from the compartment formed between the remaining portions of the walls of the envelope.

2,529,838
PREPARATION OF N,N-DIALKYLACRYLAMIDES
John G. Erickson, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 23, 1948, Serial No. 50,890
3 Claims. (Cl. 260—561)

1. The method comprising heating an amine of the formula R_2NH, in which R is an alkyl radical containing at least five carbon atoms, with a monomeric acrylic ester free from interfering substituents under superatmospheric pressure to produce the corresponding N,N-dialkylacrylamide.

2,529,839
AIR CONDITIONER
Thomas H. Garvey, Natick, and Paul V. Scally, Randolph, Mass.
Application June 10, 1947, Serial No. 753,606
3 Claims. (Cl. 261—106)



1. An air conditioner comprising a substantially rectangular screen frame assembly having side, top and bottom screen frame members and a sheet of foraminous material substantially bridging the gap between said screen frame members and having its sides and ends secured respectively to said screen frame members, a longitudinal passage formed in said top screen frame member, extending substantially between the side screen frame members adjacent the tops thereof and outwardly transversely of the upper portion of at least one of said side frame members to provide an opening for said passage in one outer side wall of the frame assembly, a conduit detachably mounted in said passage and extending outwardly of the frame assembly through said opening, said conduit being provided with a series of perforations through which a liquid may flow to said sheet of foraminous material, and means for detachably connecting said conduit to a source of liquid, whereby said conduit may be removed from said longitudinal passage by withdrawing it through said opening and without removing the foraminous material from the screen frame members.

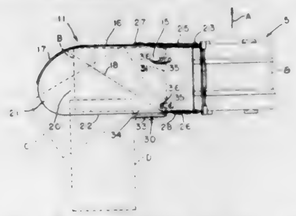
2,529,840
BIS-SUBSTITUTED CHLORODIAZINES AND METHODS OF PREPARATION THEREOF
Richard Paul Germann, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 26, 1947, Serial No. 764,015
14 Claims. (Cl. 260—256.5)

1. Bis(3-Y phenylsulfonyl) 2 - amino-5-halopyrimidine where Y represents a radical selected from the group consisting of free amino, radicals which are convertible to free amino by hydrolysis, and radicals which are convertible to free amino by reduction.

2,529,841
COMPOSITION RAIL TIE
Harvie W. Goddin and Einar V. Bulow, Washington, D. C.
No Drawing. Application December 11, 1944, Serial No. 567,634
1 Claim. (Cl. 106—98)

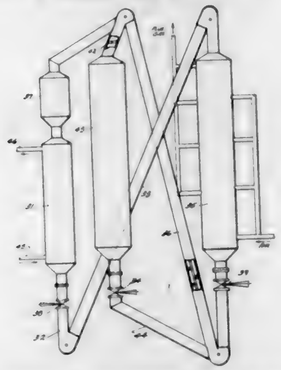
A railroad cross tie, the body of which is composed of a composition containing, by volume, about 22 to about 28% of pulverized pyroxite the great bulk of which can pass a 200 mesh screen about 11% to about 19% of pulverized diatomite the great bulk of which can pass a 200 mesh screen, about 27% to about 45% of granular quartzite, substantially all coarser than ¼ inch size and about 22% to about 28% of a cement functioning as a hardening agent, which cement in the absence of the pulverized pyroxite, has hydraulic properties.

2,529,842
BALING PRESS TAILBOARD
Frank D. Jones and James R. West, Ottumwa, Iowa, assignors to Deere Manufacturing Co., a corporation of Iowa
Application March 23, 1945, Serial No. 584,298
10 Claims. (Cl. 193—43)



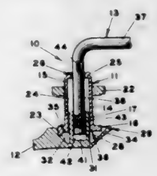
1. A tail board for a pick-up type baler having a bale case disposed transversely of the direction of movement in the field, said tail board comprising a floor extending laterally from the discharge end of said bale case and having substantially straight and parallel front and rear edges, the inner or receiving portion of said floor adjacent said bale case being generally horizontal, the outer portion of said floor being inclined downwardly and rearwardly, and a raised guide along the rear edge of said floor comprising a member extending along said rear edge and spaced above the latter, the outer end of said member turning downwardly to serve as a fulcrum about which the bales are turned as they slide down said inclined portion of the floor.

2,529,843
CONTACT MASS LEVEL CONTROL
Eddie R. Kehrer, Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1948, Serial No. 10,839
1 Claim. (Cl. 196—52)



The method of controlling the flow of a catalyst to a hydrocarbon reactor that comprises continuously delivering catalyst to a point above the reactor, flowing the catalyst as a continuous dense gravitational mass from said point to a hopper located above the reactor, continuously measuring the catalyst level within the hopper, and establishing a gravitational flow path from said delivery point to a storage zone normally isolated from said point when the level of the catalyst in the hopper rises above a predetermined point while maintaining the flow path from said point to said hopper.

2,529,844
FLUSH LEVER
Fred M. Keller, Grand Rapids, Mich.
Application March 26, 1949, Serial No. 83,741
1 Claim. (Cl. 4—67)

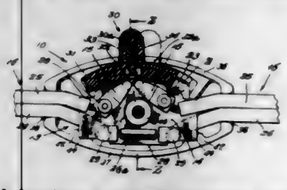


A single action flush handle assembly mountable upon a flush tank side wall having an opening therethrough, comprising in combination: a substantially cylindrical mounting fixture extending through said tank opening and having a circumferential, integral, radially outwardly extending flange exterior of said tank with a lug extending axially therefrom near the radially outer edge thereof, said fixture having a coaxial, cylindrical chamber therein and a bearing portion having a cylindrical opening therethrough communicating with said chamber and of reduced internal diameter with respect thereto; means exteriorly engaging the interior end of said fixture for securement thereof to said tank; a handle having a head with a cylindrical sleeve extending therefrom and rotatably supported within the exterior end of said chamber; a pair of spaced bosses on the inside of said head facing said flange and near said sleeve cooperating with said lug to limit the rotation of said handle and engaging said flange for spacing said head from said flange; a lever having a perpendicularly disposed cylindrical shank portion near one end thereof, the extremity of said one end being non-rotatively secured within said sleeve; and a point on said shank portion spaced from said extremity being rotatably supported within the opening in said bearing portion and a bead on said shank portion adjacent to the interior end of said fixture for limiting the outward axial movement of said shank portion with respect to said fixture.

2,529,845
FEED-THROUGH SWITCH
Edwin H. Lockwood, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application April 21, 1947, Serial No. 742,795
3 Claims. (Cl. 200—168)

1. In a switch, a plate having contact members thereon and lead wires connected with said contact members; a casing comprising two parts secured together and located on opposite sides of said plate and having cooperating shoulders supporting and positioning said plate; said casing including an inwardly-facing channel formed

on the interior thereof opposite an edge of said plate; a switch operator slidably engaged in said channel, the edge of said plate opposite said



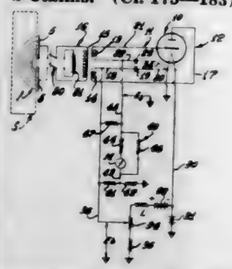
channel having a guard-forming configuration such that the switch operator is prevented from leaving the channel by the edge of said plate.

2,529,846

ZERO SUPPRESSION SYSTEM FOR ELECTRONIC MOISTURE REGISTER INSTRUMENTS

Marvin L. McBrayer, Alhambra, and August John Swyke, Arcadia, Calif., assignors to Moisture Register Company, Alhambra, Calif., a corporation of California

Application February 24, 1948, Serial No. 10,436
2 Claims. (Cl. 175—183)



1. In a moisture testing instrument of the character described, a vacuum tube oscillator having an output circuit and having an indicating meter arranged to indicate the amount of power drawn from said output circuit, said indicating meter having an instrument scale with end limits and an indicator hand movable thereover, output electrodes having a gap therebetween for an electric field into which a sample of material may be placed, means in the circuit of said oscillator for adjusting the electrical state thereof to cause said indicating hand to register zero deflection on said scale for the power absorption from said oscillator resulting from placement of a standard sample of material of a predetermined sensible moisture percentage in the field of said output electrodes, an electrical resistor, and switch means for connecting said output circuit across either said output electrodes or said resistor, said resistor having power absorption characteristics equivalent to that of said sample of material of predetermined moisture content.

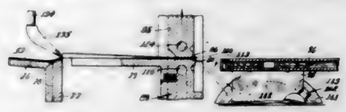
2,529,847

APPARATUS FOR MANUFACTURING CLOSURES FROM FLEXIBLE PLASTIC MATERIAL

Raymond H. McClellan, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois

Application March 6, 1948, Serial No. 13,467
24 Claims. (Cl. 154—42)

1. Apparatus for forming closures from a continuous tube of a flexible plastic material, comprising means for intermittently feeding the continuous tube of flexible plastic material longitudinally, means comprising a pair of normally biased apart clamping jaws receiving the flexible plastic material from the feeding means, said intermittent feeding means being arranged to stationarily position the forward end of said fed plastic material adjacent to one of the clamping jaws, means for severing the plastic material when in the stationary position at a point between



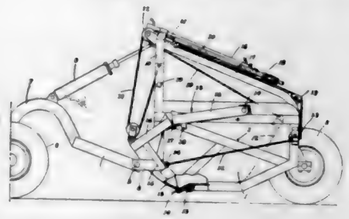
the clamping jaws and the feeding means whereby two open edges result, means for clamping the jaws together when the plastic material is in the stationary position, said feeding means being arranged to protrude the forward edge of said plastic material beyond the clamped jaws, a heating means mounted upon said apparatus, means for sealing said forward edge of the tube by subjecting it to the heating means, and means for cooling said clamping means.

2,529,848

APRON MOUNT AND CONTROL FOR CARRY-TYPE SCRAPERS

Donald E. Murray, Modesto, Calif.

Application April 4, 1947, Serial No. 739,439
5 Claims. (Cl. 37—126)



1. In a scraper which includes a bowl having a forwardly movable endgate and a vertically adjustable apron, a power cylinder mounted lengthwise on top of the bowl, said cylinder including a projecting piston rod, guided cables leading from the piston rod operative to advance the endgate and lift the apron upon motion of said rod in one direction, the apron being mounted for a relatively sharp rearward scooping action as it approaches closed position, and a guided pull cable system leading from the piston rod and connected to the apron to urge the same rearwardly upon motion of said rod in a direction opposite to the direction which advances the endgate and lifts the apron.

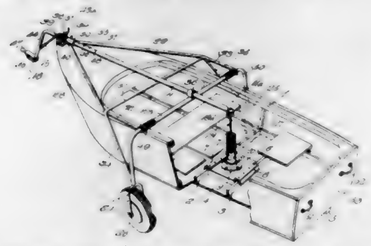
2,529,849

TRAILER FOR BOAT HANDLING

Earl William Oeth, Evansville, Ind., assignor of one-third to Ruby A. Oeth, Evansville, Ind.

Application September 30, 1946, Serial No. 700,313
9 Claims. (Cl. 214—65)

1. In an apparatus of the class described, a boat having a fulcrum device secured to the bow and a screw-threaded connecting flange secured adjacent the stern, a trailer comprising a frame and wheeled support, connection means between said frame support and the fulcrum device adjacent the bow of the boat and connection means between said frame support and the screw-threaded flange adjacent the stern of the boat, said last mentioned connection means including a guide cylinder screw-threaded at one end for



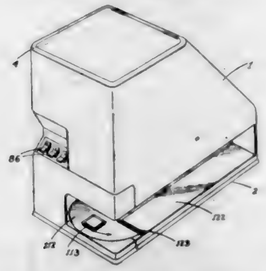
detachably engaging the screw-threaded flange adjacent the stern of the boat, a coil spring and a coacting plunger operatively connected with said coil spring and movable axially of said cylinder and detachably connected with said frame support, and forming a single pendant suspension for the boat from said trailer.

2,529,850

BUTTER SLICING AND DISPENSING MACHINE

Walter R. Scharsch, Los Angeles, Calif.

Application March 29, 1945, Serial No. 585,447
12 Claims. (Cl. 31—6)



1. A butter slicing device including a bulk butter container, a slicing chamber in register with the container, means to move the bulk butter from the container into the chamber, a plunger movable through the chamber, a pair of guides, the members thereof lying respectively on opposite sides of the chamber, a second pair of guides, the members thereof lying respectively on opposite sides of the first pair of guides, blocks on the plunger slidable on the first pair of guides, tension springs connected to such blocks and which are placed under tension with the advancement of the plunger, other blocks slidable on the guides, tension springs connected with said other blocks, said other blocks being engageable by the first named blocks with the advancement of the plunger, means to releasably hold said other blocks at the forward end of the chamber, means responsive to the movement of the butter into the chamber to release said other blocks, and a butter cutting element on said other blocks which, upon release of said blocks, will be drawn through the butter by movement of said blocks under the tension of the springs connected therewith, whereby to cut a segment from the bulk butter.

2,529,851

ADHESIVE COMPOSITION

Paul H. Scrutchfield, Hannibal, Mo., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 14, 1949, Serial No. 99,117
5 Claims. (Cl. 260—9)

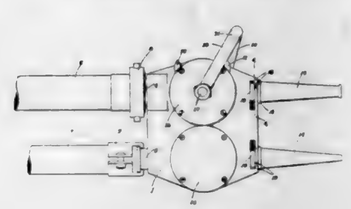
1. An adhesive composition, adaptable for use in the manufacture of water resistant corrugated fiber board comprising from 1 to 5 parts by weight of a partially hydrolyzed starch, from 1 to 4 parts by weight of an ungelatinized starch base and from 1% to 4% by weight of borax based on the total starch solids used, in aqueous dispersion with 2.5% to 20% solids by weight of a ketone-formaldehyde resin, wherein said ketone is a member of the group acetone, methyl ethyl ketone, and cyclohexanone, having a mol ratio of 1:1 to 1:6 respectively, said percentage by weight being based on the total amount of starch solids present and in which the water present in relation to the total starch solids present is within the ratio of 2:1 to 5:1 respectively and said dispersion having a pH of between 10 and 12.5 and a thin film of said adhesive being capable of setting at a temperature varying between 140° F. and 158° F. in from less than 1 second to 10 seconds.

2,529,852

DUAL VALVE UNIT

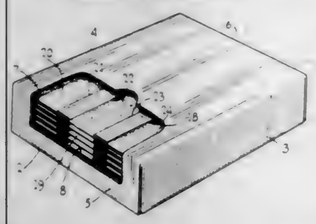
Ward E. Snowden and Harvey F. Raynor, Modesto, Calif., assignors, by mesne assignments, to Ward E. Snowden, Modesto, Calif.

Application April 3, 1945, Serial No. 586,317
1 Claim. (Cl. 277—59)



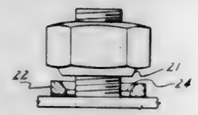
A dual nozzle unit, for fire fighting, comprising an upstanding, transversely relatively thin body having opposed flat side faces in substantially parallel relation, the body being formed with a pair of longitudinal passages therethrough one above the other, means for connecting inlet and outlet fittings with each of said passages, a valve in each passage, each valve being rotatable about its respective axis, which axis extends transversely of the body in the direction of the thin dimension of said body, an axial stub shaft on each valve, one stub shaft projecting through one flat side face of the body, and the other stub shaft projecting through the opposite flat side face of the body, an upstanding lever arm on each stub shaft, such lever arms being of predetermined differential length, flat and extending upwardly from the stub shafts in close face to face relation with respect to the adjacent side faces of the body, projecting to upper end terminations substantially equi-distant above said body when said lever arms are in predetermined corresponding working positions, and finger pieces on the upper ends of said flat lever arms projecting toward each other for separate or simultaneous engagement by one hand.

2,529,853
FOLDED TISSUES AND DISPENSER THEREFOR
Donald C. Taggart, Westfield, N. J., assignor to The General Cellulose Company, Inc., Garwood, N. J., a corporation of New Jersey
Application February 15, 1946, Serial No. 647,821
1 Claim. (Cl. 206—57)



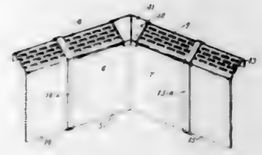
A packaged stack of paper sheets consisting of a dispensing container and a stack of folded sheets adapted to be individually withdrawn from the container, said container having a section bounded by perforated lines and extending transversely across the top and one end of the container from a perforated line adjacent one edge of the container to a perforated line adjacent the opposite edge of the container, the section being partially severable from the container to form an opening therein and also to serve as a hinged hanger flap therefor; each sheet of said stack being folded to form four longitudinally extending tabs overlapping the same side of the sheet, the sheets being disposed in the container with their tabs facing the top thereof, said section extending in a direction transverse to that of the tabs so that when the opening is formed in the container only an end portion of the sheets and tabs thereon is exposed, whereby each sheet may be individually withdrawn from the container by grasping one of the partly exposed tabs, the remaining sheets of said stack being confined within the container.

2,529,854
COMBINATION LOCK NUT AND WASHER
Lawson Tarwater, Redlands, Calif., assignor, by direct and mesne assignments, of one-third to Norman P. Marshall, one-third to William S. Marshall, and one-third to George Henry Ide, all of Redlands, Calif.
Application November 19, 1945, Serial No. 629,504
4 Claims. (Cl. 151—19)



1. Lock nut and washer means for use in combination with a bolt extending through a work element or the like providing a flat face against which the said means can be tightened comprising a nut member having a depending flange providing a circular shoulder eccentrically disposed with relation to the axis of the threaded bore of the nut, a resilient spirally shaped split washer adapted to be positioned against the work element, said washer having a circular recess for the reception of the flange portion of said nut, whereby tightening of said nut against said washer serves to flatten said washer into tight engagement with said work element and subsequently causes said recess and said flange to cooperate to exert lateral thrust on said nut and securely lock the same on the bolt.

2,529,855
FLEXIBLE CORNER
George D. Waterman, Hartford, Conn., assignor to The Vulcan Radiator Company, Hartford, Conn., a corporation of Connecticut
Application July 2, 1947, Serial No. 758,535
1 Claim. (Cl. 189—86)



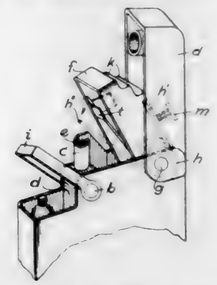
A flexible corner unit of the character described constructed of sheet metal and formed to provide a pair of adjoining wall portions extending substantially perpendicular to each other and having rearwardly extending upper portions co-extensive therewith and with their adjacent ends forming a notch therebetween at the corner of said unit, and a covering corner member secured to the adjacent end of one of said upper portions and extending over said notch and overlapping the adjacent end of the other upper portion, the said corner covering member being free of the said other portion and the wall portions being normally relatively movable to permit said unit to accommodate variations in angles of corners between two adjoining walls.

2,529,856
PROCESSES OF PREPARING WATER-SOLUBLE MELAMINE-FORMALDEHYDE RESINS AND PRODUCTS THEREOF
Herbert J. West and William T. Watt, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 18, 1944, Serial No. 568,780
13 Claims. (Cl. 260—67.6)

1. The process which comprises refluxing a mixture of methyl alcohol with an acidified polymethylol melamine until a clear solution is obtained, substantially immediately neutralizing the solution by the addition of an alkaline material, and dehydrating the neutralized solution to give a product which in its dry form is a resinous solid at room temperatures and which is substantially infinitely miscible with water at room temperatures, the dehydration being effected under heat and under a vacuum sufficiently high so that the temperature of the heated mass does not substantially exceed 90° C. during dehydration.

2,529,857
FLINT TENSIONING MEANS FOR LIGHTERS
Robert Wiessner, Vienna, Austria, assignor to Arthur Dubsky, Elmhurst, N. Y.
Application February 19, 1948, Serial No. 9,427
In Germany April 19, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires April 19, 1959
3 Claims. (Cl. 67—7.1)

2. In a pocket lighter, a device for pressing the flint against the rubbing wheel, comprising a cap pivotally mounted at the lighter casing within the lighter lid, said cap being provided with steps, a bow pivotally mounted at the lighter casing and adapted to engage with any of said steps,

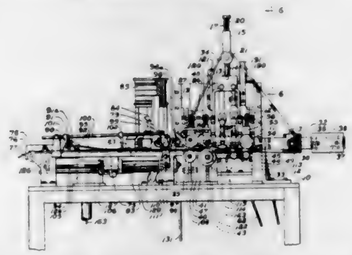


a spring and a stop arranged in said cap, one end of said spring adapted to engage with the flint when said cap is closed and with said stop when it is opened, the other end of said spring bearing against said cap.

2,529,858
HOIST CHAIN EQUIPMENT
Irvin L. Young, Chicago, Ill.
Application December 27, 1945, Serial No. 637,340
7 Claims. (Cl. 74—246)

1. A chain drive comprising a sprocket, and a chain for the same, the chain links presenting terminal concavities in the zones of sprocket-tooth application, and the sprocket teeth being extended in the direction of such concavities to be pocketed by the latter and impart rotary driving pressure to the chain, each pivoting zone being formed by multiple series of alternating ears receiving a common pintle pin.

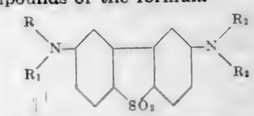
2,529,859
MACHINE FOR APPLYING COVERING MATERIAL TO ENDLESS BELTS
Robert R. Ambler, Akron, and Roger D. Weston, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application November 29, 1946, Serial No. 713,016
8 Claims. (Cl. 154—3)



5. Apparatus for applying a strip covering to an endless flexible article, said apparatus comprising a movable carriage having means for supporting the article and presenting a substantially straight reach thereof for covering, means for moving said carriage to and from a covering station, means at said station for folding a strip of material about the article progressively in the region of its straight reach, said folding means including means for advancing the article circumferentially, feeding means presenting the leading end of the strip material at said folding means, a cutter in the path of the strip material for severing a trailing end of the material from a supply thereof, and a timer for controlling operation of said cutter, said timer including a timing cam for operating said cutter, means on the article advancing means for advancing said cam, and means actuated by movement of said carriage from said covering station for resetting said cam.

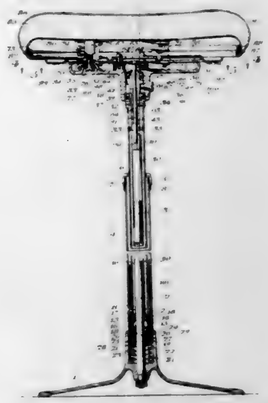
2,529,860
2,8-DIAMINODIBENZOTHIOPHENE DIOXIDE AND N,N'-DERIVATIVES
Edward Delbert Amstutz, Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware
No Drawing. Application June 24, 1947, Serial No. 756,795
6 Claims. (Cl. 260—329.3)

4. Compounds of the formula



in which R, R_1, R_2 and R_3 are selected from the group consisting of hydrogen, acetyl, aldehyde-bisulfite, aldehyde-sulfoxalate and nitrogen-containing 5- and 6-membered heterocyclic groups, with the proviso that not more than one of the groups R, R_1, R_2 and R_3 is an N-heterocyclic group.

2,529,861
ADJUSTABLE SEAT SUPPORTING STRUCTURE
Robert C. Angell and George H. Browne, Prince Bay, N. Y., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 1, 1945, Serial No. 614,074
11 Claims. (Cl. 155—94)



1. A seat supporting structure provided with a standard affording a leg, a seat post adjustable up and down with respect to said standard, a seat supported by said seat post, locking means ar-

ranged to engage said seat post with respect to said standard to prevent downward movement of said seat relative to said standard, separate locking means comprising bearing balls arranged to engage said standard with respect to said seat post to prevent upward movement of said seat post relative to said standard in any vertical position within its range of movement, and means arranged to contemporaneously render both said locking means inoperative.

2,529,862

DIAPHRAGM UNIT AND METHOD OF FABRICATING SAME

Paul H. Bilhuber, Douglas Manor, N. Y., assignor to Steinway & Sons, New York, N. Y., a corporation of New York

Application June 22, 1943, Serial No. 491,782
1 Claim. (Cl. 84—192)

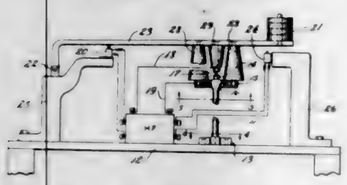
The method of conditioning wood to be fabricated into a diaphragm unit for a musical instrument which comprises electrostatically baking the wood in an ultra high-frequency electrostatic field of about six to eight megacycles for a time and at a temperature in the range approximately 375° F. to approximately 425° F. so as to remove oleo resins and at least some of the water of constitution from the wood while cooling at least a portion of the wood surface so as to maintain a termperature differential in the order of 15° to 30° F. between the inside and outside of the wood and thereby avoid discoloration of its surface.

2,529,863

METHOD AND APPARATUS FOR MAKING HARD THERMOPLASTIC TUBE ASSEMBLIES

Claude Thomas Bowen, Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application October 30, 1948, Serial No. 57,473
9 Claims. (Cl. 18—1)



1. The method of joining a pair of members in frictional engagement, one of said members comprising electroconductive material and the other of said members comprising thermoplastic dielectric material, which method comprises providing an electrode, placing at least a portion of said dielectric member between said electrode and said electroconductive member, establishing an alternating high frequency electrostatic field between said electrode and said electroconductive member to heat and soften said dielectric member uniformly throughout that portion subjected to said field, and simultaneously forcing said pair of members into frictional engagement with each other.

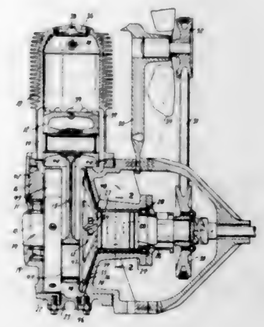
5. Apparatus for joining an electroconductive member with a thermoplastic dielectric member in frictional engagement which comprises an electrode, means for maintaining said electrode adjacent the portion of said dielectric member to be joined to said electroconductive member, means for establishing a high frequency alternating electrostatic field between said electroconductive member and said electrode, and means for forcing said members into frictional engagement with each other while maintaining said electrostatic field in effect.

2,529,864

SUPERCHARGER

Procter Brevard, Tower, Minn.

Application September 25, 1948, Serial No. 51,239
4 Claims. (Cl. 123—73)



3. In an internal combustion engine of crankcase charged type, a crankcase, a crankshaft rotatable therein, and a supercharger for charging the crankcase with fuel mixture under above-atmospheric pressure, wherein said supercharger comprises a circular wall element integral with the crankshaft, radial vanes on said wall element defining passages therebetween, closed on one side by the wall element, said vanes being tapered toward the periphery of the wall element, and said crankcase having a wall portion presenting a frusto-conical face closely adjacent the vanes and closing said passages.

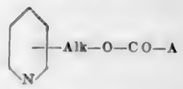
2,529,865

PYRIDYLALKYL ESTERS OF AROMATIC SUBSTITUTED ACETIC ACIDS

Robert R. Burtner, Skokie, and John M. Brown, Chicago, Ill., assignors to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois

No Drawing. Application April 5, 1947, Serial No. 739,644
13 Claims. (Cl. 260—295)

1. A member of the group consisting of a pyridylalkyl ester of a di-aromatically substituted acetic acid, which has the formula



wherein Alk is a lower alkylene radical and A is a member of the group consisting of diarylmethyl, 9-fluorenyl, 9,10-dihydro-9-anthryl and 9-xanthyl radicals, and salts thereof.

2,529,866

COPOLYMERS OF VINYL BENZOATE AND POLYUNSATURATED CARBONATE ESTERS

Earl J. Carlson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 1, 1947, Serial No. 745,255
18 Claims. (Cl. 260—77.5)

1. A hard, clear, non-thermoplastic polymeric material prepared by the polymerization of a mixture of from 10 to 60 percent by weight of vinyl benzoate with from 40 to 90 percent by weight of a compound of the formula

wherein R is an alkenyl radical containing from 2 to 7 carbon atoms and having a methylene group attached by a double bond to a carbon atom, A is a polyvalent unreactive organic radical containing from 2 to 19 carbon atoms and selected from the class consisting of hydrocarbon radicals, radicals of the structure $R_1—O—R_1$ wherein each R_1 is a hydrocarbon radical containing more than 1 carbon atom, and halogen-substituted hydrocarbon radicals, and x is a number from 2 to 4.

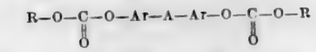
2,529,867

COPOLYMERS OF VINYL ESTERS OF ALIPHATIC ACIDS WITH DIALKENYL-CARBONATE ESTERS OF ALKYLENE BIS-PHENOLS

Earl J. Carlson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 1, 1947, Serial No. 745,256
15 Claims. (Cl. 260—77.5)

1. A hard, clear, non-thermoplastic polymeric material prepared by the polymerization of a mixture of from 1 to 50 percent by weight of a vinyl ester of a saturated aliphatic monocarboxylic acid containing from 2 to 12 carbon atoms with from 50 to 99 percent by weight of a compound of the formula



wherein R is an alkenyl radical containing from 2 to 7 carbon atoms and having a methylene group attached by a double bond to a carbon atom, Ar is a bivalent aromatic radical selected from the class consisting of arylene and nuclear halogenated arylene radicals and having its connecting valences on aromatic nuclear carbon atoms, and A is an alkylene radical containing from 1 to 7 carbon atoms.

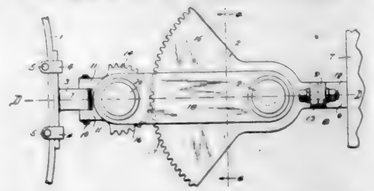
2,529,868

HITCH COUPLING

John S. Connors, Cleveland, Ohio

Substituted for abandoned application Serial No. 673,860, June 11, 1946. This application December 4, 1947, Serial No. 789,729
10 Claims. (Cl. 280—33.44)

1. A hitch coupling for securing a trailing vehicle to a towing vehicle comprising a plurality of members pivotally secured together, a pivotal connection between one of said members and the towing vehicle, a pivotal connection between another of said members and the trailing vehicle, the axes of said first-mentioned pivotal connection and said second-mentioned pivotal connection being in planes perpendicular to each other, and means associated with said plurality of members and operative to prevent turning of the



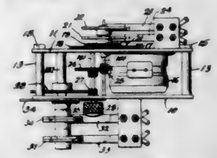
trailing vehicle independently of the towing vehicle.

2,529,869

MASTER-CONTROL CLOCK

Gustave T. Fredstrom, Chicago, Ill.

Application November 9, 1948, Serial No. 59,076
5 Claims. (Cl. 58—25)



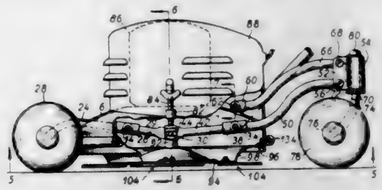
1. In a master clock for transmitting control and correction impulses to a slave clock, a shaft, a ratchet gear rigidly affixed thereto, a driving gear freely rotatable on said shaft, a ratchet carried by the driving gear adapted to engage the ratchet gear, power means for turning the driving gear at one revolution per minute, a second shaft, a gear train coupling the shafts operative to turn the second shaft at one revolution per hour, a cam on each shaft, a switch adapted for intermittent actuation by the cam on the first shaft, and a double-throw switch adapted for intermittent actuation by the cam on the second shaft.

2,529,870

ROTATING DISK POWER LAWN MOWER

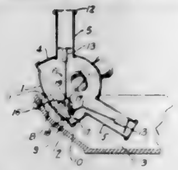
Adolph W. Golasky, National Park, N. J.

Application May 13, 1947, Serial No. 747,612
6 Claims. (Cl. 56—25.4)



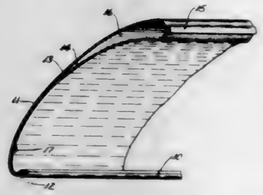
1. A lawn mower comprising a frame, a vertical shaft rotatably mounted in the frame, an annular blade support connected to the lower end of the shaft, a cutter blade pivotally mounted on the periphery of the bottom face of the blade support, a slot in the blade support adjacent the cutter blade, a coil spring having one end secured to the top of the blade support and the other end passing through the slot and secured to the cutter blade, the outer end of said slot being located so as to act as a stop on the action of the spring when the cutter blade is in cutting position at an angle to a radial line passing through the axis of the shaft and the pivot of the blade, and supporting wheels connected to the frame.

2,529,871
CIGARETTE EXTINGUISHER
Joseph S. Hart, Jr., San Leandro, Calif.
Application August 16, 1946, Serial No. 691,051
8 Claims. (Cl. 131—235)



1. In combination, an ash tray and a cigarette extinguisher comprising a barrel assembly revolvable in the tray and having a plurality of barrels arranged angularly with respect to the axis of rotation for passing successively through upwardly inclined and downwardly inclined positions, pistons disposed in the barrels, and rotatable anchoring means for the pistons mounted below the axis of the barrel assembly to cause relative displacement between each barrel and its piston substantially along the axis of the barrel when the barrel assembly is turned.

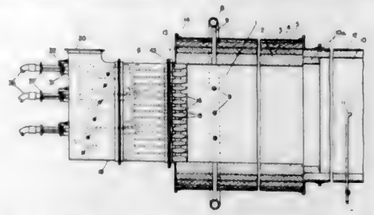
2,529,872
COLLAPSIBLE CONTAINER
Victor H. Hasselquist, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 1, 1945, Serial No. 613,994
17 Claims. (Cl. 4—177)



1. A collapsible liquid container comprising a bottom member, a marginal wall member of flexible material secured thereto about its periphery and overlying the bottom member, said wall member having a flexible margin, and means at the margin for buoyantly supporting the wall above the bottom member in the presence of a liquid within the container, said means comprising a double walled pocket of said wall member having in the unfilled condition of the container communication with the atmosphere at a position below the upper margins of the container and in the filled condition of the container being sealed by the liquid within the container.

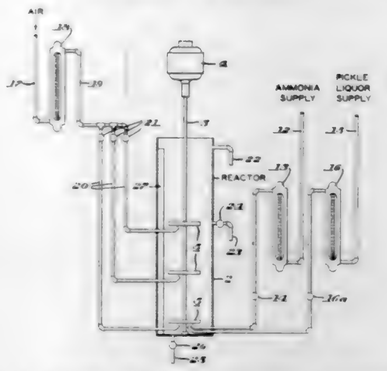
2,529,873
MANUFACTURE OF CARBON BLACK
George L. Heller, Monroe, La., assignor to Columbian Carbon Company
Application January 15, 1948, Serial No. 2,399
11 Claims. (Cl. 23—209.8)

6. A furnace for the production of carbon black which comprises an elongated, unobstructed and unrestricted heat insulated chamber, a burner block of substantial thickness coextensive with the transverse area of the chamber and positioned in one end thereof, a wind-box adapted to contain air under super-atmospheric pressure secured to the burner block, a connection adapted to the passing of air under pressure to the wind-box, a plurality of substantially parallel burner ports, not over 2 inches in diameter and of a depth not less than 4 diameters, extending through said block and uniformly spaced over the surface of said block, the number and size of said burner ports being such that not less than 50% of the area of the burner block face is plane surface, the outer ends of the respective ports opening into the wind-box, a fuel gas manifold within the wind-box, a plurality of fuel gas spuds each connected with the manifold by a



tube of a length substantially greater than the depth of the burner ports, the spuds and connecting tubes being positioned coaxially with the respective burner ports, a connection for supplying fuel gas under pressure to the manifold, said fuel gas manifold being so constructed and arranged within the wind-box as to be adapted to be moved therein toward and away from the burner block without altering the alignment of the spuds with the axis of the respective burner ports, and a connection adapted to the injection of a gaseous medium into that end of the chamber adjacent the burner block.

2,529,874
PROCESS FOR MANUFACTURING AMMONIUM SALTS AND MAGNETIC IRON OXIDE FROM SOLUTIONS OF FERROUS SALTS
Richard D. Hoak, Mount Lebanon Township, Allegheny County, Pa., assignor to Mellon Institute of Industrial Research, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1947, Serial No. 776,504
5 Claims. (Cl. 23—200)

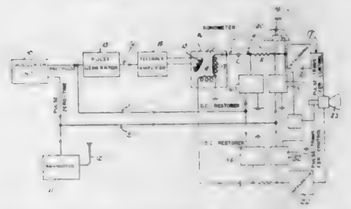


1. A process for producing pure ammonium salt and a rapidly settling magnetic iron oxide, which comprises carrying out a first step by mixing streams of ammonia, an aqueous solution of ferrous salt and air in a reaction zone to form a bath, regulating said streams so that at the end of said first step the bath contains in solution from 0.1 gram to 5 grams of iron per liter and the bath contains precipitated iron oxide in which the atomic ratio of ferric iron to ferrous iron is less than 2, thereafter in a second step subjecting the bath to an oxidation treatment during an oxidizing period by agitating the bath and supplying air to it in a greater proportion relative to the ferrous salt than was used during the first step and until the atomic ratio of ferric iron to ferrous iron in the precipitated oxide is between 2:1 and 3.5:1 and until the bath contains substantially no iron in solution, said steps being carried out at atmospheric pressure and with an excess of ammonia above the stoichiometric requirements of said ferrous salt, and separating the precipitate from the solution.

2,529,875
CONTROL SYSTEM WITH REMOTE SET POINT ADJUSTMENT AND WITH REMOTE INDICATION
George E. Howard, Gates, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application December 31, 1946, Serial No. 719,509
6 Claims. (Cl. 236—51)

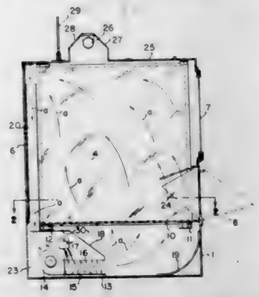
1. In a pneumatically operated condition controller for maintaining a condition at a desired set point, means for sensing deviations in said condition from said set point, a pneumatic couple comprising a relatively movable nozzle supplied with compressed air or the like and a baffle for variably obstructing the escape of compressed air through said nozzle and thereby varying the back pressure at said nozzle, means including said sensing means for changing the spacing between said baffle and nozzle in response to each deviation, a relay valve operated by said back pressure, a pneumatically operated member for applying a medium to correct the deviation in said condition, means including said relay valve for applying compressed air at controlled pressures to said member, a second pneumatic couple comprising a relatively movable nozzle supplied with compressed air or the like and a baffle for variably obstructing the escape of compressed air through said nozzle and thereby varying the back pressure at said nozzle, means including said sensing means for changing the spacing between said baffle and nozzle of said second couple in response to said deviation, a second relay valve having an outlet and actuated by said last-mentioned back pressure, for supplying to said outlet compressed air at controlled pressures, means including a bellows responsive to said last-mentioned controlled pressures to reduce the change in the space relation between said baffle and said nozzle of said second couple, due to any given deviation in said condition, a remote station provided with a pneumatically operated condition indicator, and a pipe extending between said outlet and said indicator.

2,529,876
GENERATOR FOR ELECTRICAL OSCILLATIONS
Lionel Jofeh, Stonehouse, England, assignor of one-half to A. C. Cossor Limited, London, England, a company of Great Britain, and one-half to The Sperry Gyroscope Company Limited, Brentford, England, a company of Great Britain
Application December 14, 1948, Serial No. 65,245
In Great Britain December 12, 1947
8 Claims. (Cl. 343—5)



1. Time base apparatus for providing two trains of pulses whose wave form is of saw-tooth shape and whose amplitudes and polarities are collectively representative of the angular displacement of a rotatable member, the apparatus comprising two output inductors arranged substantially in mutually perpendicular relation, an input circuit including at least one input inductor co-operating with said output inductors, means for rotating said input inductor relatively to said output inductors in synchronism with said rotatable member to couple said input circuit to said output inductors in dependence upon the sine and cosine respectively of the angle of displacement of said rotatable member, a source of pulses of rectangular wave form, means for applying said pulses of rectangular wave form to said input circuit, and means for integrating the outputs of said output inductors respectively.

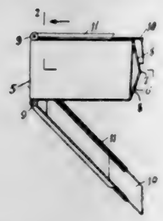
2,529,877
BULK DISPENSING CABINET FOR POPCORN AND THE LIKE
Morris Ladge, Newton, Mass.
Application May 18, 1946, Serial No. 670,817
6 Claims. (Cl. 34—88)



1. A device for displaying and dispensing popcorn and the like comprising a cabinet closed on all sides having erect side walls through which the pop-corn within the casing can be seen, a removable screen partition extending

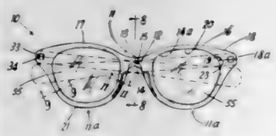
completely across the inside of the cabinet, a dispensing door hinged substantially in the plane of the screen partition having front and side elements and adapted to be swung in a V-angle outwards and downwards, said door having a plate positioned above it attached to the forward side wall of the casing and extending inward over the door in its closed position, conduit means at the corners of the casing extending through said screen to the inside just short of the top of the casing and means positioned below the screen having an inlet communicating with said conduit for drawing air through the conduits and an outlet for sending it up through the screen.

2,529,878
CLOSURE FOR RECEPTACLES
Alfred Edouard Lamarthe, Paris, France, assignor to Fa-Clie Fastener Corporation, New York, N. Y.
Application June 25, 1948, Serial No. 35,260
2 Claims. (Cl. 150—10)



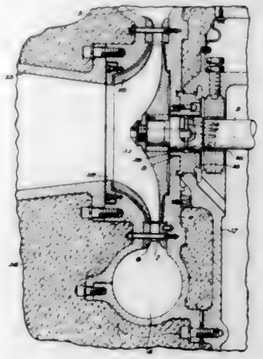
1. A closure for receptacles comprising a rigid frame member having a sloping side forming a part of the aperture's contour, a movable frame member formed of telescoping sections complementing the aperture's contour, and hinges at the ends of the rigid and movable frame members, connecting the two, whereby said movable frame member can be moved to and from the rigid frame member in a plane substantially perpendicular to the sloping side of the rigid member but angular to the median plane of the rigid frame member, said movable frame having a spring section the inherent resiliency of which tends to retain the shape it assumes at the open or closed position of the closure.

2,529,879
OPHTHALMIC MOUNTING
Monroe B. Levoy, Newtown, Conn.
Application April 3, 1948, Serial No. 18,840
1 Claim. (Cl. 88—41)

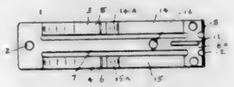


Spectacles comprising a frame formed of cast malleable aluminum and having a bridge and lens receiving rims integral therewith and extending from opposite sides of the bridge, said rims each consisting of upper and lower arms curved longitudinally and having inner ends merging into each other and adjoining side portions of the bridge, the outer ends of the arms being free from each other and inwardly increasing in width and forming enlarged outer end portions having elongated inner edge faces, said inner edge faces being one formed intermediate its width with a rib extending its full length and the other with a rib-receiving groove, hinge ears formed integral with the enlarged end portions of said arms and extending rearwardly therefrom and formed with aligned openings, temples formed of malleable aluminum having front ends formed with integral hinge ears projecting laterally from their inner side faces and disposed in overlapping relation to the hinge ears of the arms and formed with openings registering with the openings therein, and fasteners passing through the registering openings and serving as pivot pins for the temples and as the sole means for the securement of the outer end portions of the upper and lower arms together with the ribs seated in the grooves and bracing the arms against movement relative to each other.

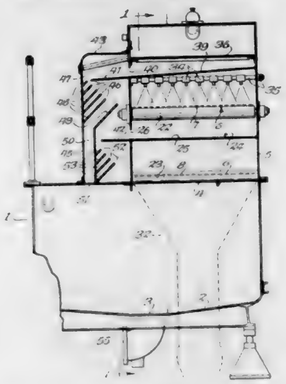
2,529,880
TURBOEXPANDER
Arthur W. McClure, Jeannette, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania
Application March 15, 1949, Serial No. 81,461
3 Claims. (Cl. 62—123)



1. A low temperature turbo-expander comprising a casing having front and rear walls connected by an encircling side wall forming a toroidal chamber provided with an inlet for cold high pressure gas, the front wall of the casing having a central outlet opening therein, the rear wall of the casing having a central opening therein, a bearing mounted behind said rear wall opening, a shaft rotatably mounted in said bearing and extending forward through said rear opening into the casing, a bladed expander wheel rigidly mounted on the shaft in the casing for receiving gas from said chamber and delivering it to said outlet at a lower pressure and temperature, and a seal connected to said rear wall in front of said bearing and encircling the shaft to reduce leakage of gas from the casing rearwardly along the shaft toward said bearing, the shaft being provided with at least one radial passage extending inward from a point between the ends of said seal and also being provided with an axial passage connecting the inner end of the radial passage with said outlet, whereby a large proportion of said gas leakage along the shaft is led through said passages to the casing outlet.

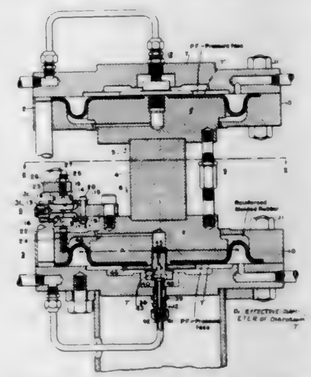
2,529,881
SNAP SWITCH HAVING A BLADE TORSIONALLY MOUNTED
Edwin August Miller, Fairfield, Conn.
Application November 19, 1947, Serial No. 786,835
3 Claims. (Cl. 200—67)

1. A switch blade associated with a base support and comprising a cantilever type of tension member having a free extremity and a portion engageable by an actuator for assisting the movement of said free extremity from one to another of relatively spaced stops provided by said base; substantially wide transversal extensions provided by said tension member at the rear thereof, each of said extensions being secured upon one of two pedestals provided by said base support and each extension having a neck of lesser width than that of said extensions to provide for said tension member a weakened twistable connection between said pedestals; a reinforcing rib formation at said tension member and extending longitudinally therewith in both directions beyond said weakened connection; and compression arms, each having an end carried adjacent the forward end of said tension member and a rear end held under compression by a portion of said supporting base intermediate the length of said tension member, said compression arms thus held having looped portions out of the plane of said tension member, an acting engagement by said actuator distorting the tension member as the cantilever force overcomes the compression arms and snaps the said free extremity of the tension member from one to the other of said stops.

2,529,882
HOP STRAINER
Carl F. Mittman, Buffalo, N. Y.
Application December 6, 1946, Serial No. 714,439
14 Claims. (Cl. 210—198)



1. A self-cleaning hop strainer and trub separator which comprises an inclined reticulated plate, means for directing down the plate a stream of cooked hops and wort, a fine mesh, reticulated, endless belt having spaced apart, superposed stretches, with one end portion of the upper stretch disposed below the lower end of said plate in a position to receive therefrom the hops and some of the wort of said stream, said belt having end portions connecting the superposed stretches, a collecting member disposed beneath said plate, another collecting member disposed beneath said upper stretch of the belt for collecting wort passing through that stretch of the belt, a pair of trub separators, each separator having a series of sedimentation cells with its cells arranged at successively lower levels and each cell overflowing into the next lower cell until the lowest cell, one of said collecting members having an outlet discharging into the highest cell of the series of one separator, the other of said collecting members having an outlet discharging into the highest cell of the series of the other separator, means for collecting the overflow from the lowest cells of each series, means for spraying with water the spent hops on said upper stretch of said belt during its travel, means disposed below the discharge end of the upper stretch of said belt to receive the spent hops falling from said upper stretch as the belt then descends, a bath of hot water disposed below and through which the lower stretch of the belt travels, means at the descending end portion of the belt for delivering a forceful spray against the descending portion of the belt to dislodge any adhering hops, and means for directing a sterilizing medium against the ascending end portion of the belt.

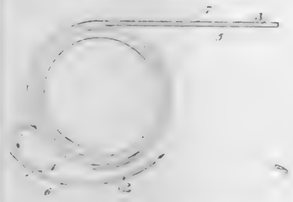
2,529,883
VIBRATION DAMPING DEVICE
Harry A. Otto, Pittsburgh, Pa., assignor to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 3, 1946, Serial No. 659,346
2 Claims. (Cl. 188—98)



1. A vibration damping device comprising a rigid member having concavities in its opposite faces, said concavities being separated by a wall integral with said rigid member, said wall having a restricted passageway providing communication between said concavities, a diaphragm extending across each concavity, said diaphragms being secured by their marginal edges in fluid-tight relationship to said rigid member whereby each concavity with its diaphragm forms a fluid-tight chamber, a rigidly supported bearing member pressing on each diaphragm in a direction inwardly of its associated concavity, the area of contact of said bearing members with their respective diaphragms being less than the area of the respective diaphragms that is included within the secured marginal edges there-

of so as to provide annular slack portions between said bearing members and said marginal edges, means for independently adjusting said bearing members in a direction towards or away from said wall whereby the slack portions and consequently the effective areas of said diaphragms may be adjusted when said chambers are filled with a fluid, the spacing between said bearing members being fixed for each adjusted position thereof, a fluid filling said chambers to such extent that air is excluded therefrom and the diaphragms are at all times in contact with said fluid, whereby relative movement between said rigid member and said bearing members causes one or the other of said diaphragms to be pressed in a direction into its associated concavity and the other diaphragm is pressed outwardly of its associated concavity by the displacement of fluid through said restricted passageway, and means for so connecting said vibration damping device to a vibratable member that relative movement between said rigid bearing members and said rigid concavitied member is effected in response to vibration of said vibratable member.

2,529,884
METHOD OF LAMINATING METAL FOIL
Richard S. Reynolds, Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application June 17, 1946, Serial No. 677,385
1 Claim. (Cl. 154—129)

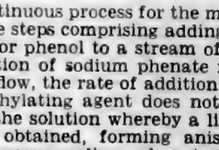


A method of applying a reinforcing material to extremely thin metal foil comprising the steps of rolling two sheets of extremely thin metal foil together in superimposed relation between rollers so as to produce a double-foil sheet wherein said sheets of metal foil have mat surfaces in face-to-face contact and polished exterior surfaces, winding said double-foil sheet into a coil whereby one of said sheets of metal foil will be exterior and the other of said sheets of metal foil will be interior peeling back the exterior sheet of foil for about one turn of the coil until it meets the interior sheet of foil, placing the polished surfaces in face-to-face contact to form a new double-foil sheet, unwinding the new double-foil sheet from the coil and leading at least one of the mat faces of the new double-foil sheet into bonding contact with a sheet of other material while the polished surfaces of the two sheets of foil are still in face-to-face contact.

2,529,885
DELAYED ACTION COAGULANT
Daniel S. Sears, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 2, 1947, Serial No. 738,947
20 Claims. (Cl. 260—85.1)

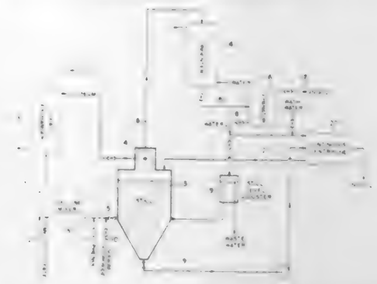
20. In combination with an aqueous dispersion of a rubbery butadiene-styrene copolymer, 0.1 to 10% by weight of sodium formaldehyde sulfoxylate based on the weight of rubbery copolymer in said dispersion and hydrogen peroxide in an amount of from ¼ to 3 times the weight of said sulfoxylate.

2,529,886
COLD WAVING PROCESS
William B. Semco, Los Angeles, Calif., assignor to Artistic Beauty Products Company, Los Angeles, Calif., a corporation of California
Application February 3, 1950, Serial No. 142,197
10 Claims. (Cl. 132—7)



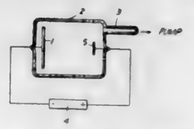
1. Steps in a cold waving process in which a waving compound such as ammonium or sodium thioglycollate or thioglycollic acid is applied to the hair, the hair allowed to process and subsequently treated with an agent for "neutralizing" the effect of any remaining waving compound, including the step of subsequently testing for the presence of traces of the cold waving compound by contacting the hair while still wet, with a body having, at its surface a substance adapted to chemically react with the cold waving compound in a manner to give a clear indication of the presence of said traces of cold waving compound.

2,529,887
PROCESS FOR THE PREPARATION OF ANISOLE
Walter D. Smutz, Warrensville Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 19, 1949, Serial No. 94,226
7 Claims. (Cl. 260—612)



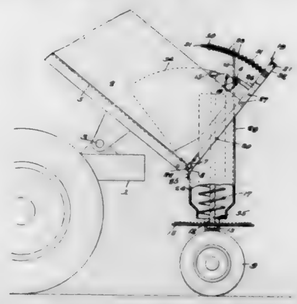
1. In a continuous process for the manufacture of anisole, the steps comprising adding a methylating agent for phenol to a stream of refortified aqueous solution of sodium phenate maintained in turbulent flow, the rate of addition being such that the methylating agent does not exceed its solubility in the solution whereby a liquid reacting mass is obtained, forming anisole in the stream of aqueous sodium phenate by passing the liquid reacting mass thru a heating zone, separating the anisole formed from unreacted aqueous sodium phenate, adding phenol and an alkaline sodium compound selected from the group consisting of sodium hydroxide and a sodium carbonate continuously in substantially equimolecular proportions to at least a portion of the unreacted aqueous sodium phenate to form said refortified aqueous solution of sodium phenate, and continuously cycling a stream of the refortified sodium phenate for admixture with said methylating agent as aforementioned, said additions of phenol, alkaline sodium compound, and methylating agent being in substantially the stoichometric proportions required for the formation of anisole.

2,529,888
ELECTRON DISCHARGE DEVICE
Alfred Sommer, Iver, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application February 25, 1948, Serial No. 10,941
In Great Britain June 29, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 29, 1966
10 Claims. (Cl. 250—165)



1. A method of producing an electron discharge device having an electrode sensitised to be an emitter of impact electrons, including the steps of depositing metal under conditions involving exposure to air, subjecting the metal deposit to an electric discharge in hydrogen, whereby effects of exposure to air are reduced, and sensitising said deposit in vacuo before exposure to air.

2,529,889
ROAD SANDING MACHINE
Clifford E. Sullivan, Reisterstown, Md.
Application June 20, 1946, Serial No. 678,047
4 Claims. (Cl. 275—8)

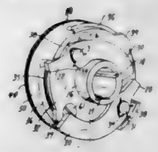


1. In a sanding extension for a tiltable dump body, a hopper hinged intermediate its upper and lower ends to the rear end of said body and projecting rearwardly and downwardly from and forming an extension of said body, the upper portion of said hopper being open at its front in full communication with the interior of said body, said hopper including forwardly extended side wings in sliding contact with the side walls of the body; a carriage rigid with the lower end of the hopper and including road-engaging wheels; an axle mounted in the carriage for rotation by the wheels; an upstanding feed worm rotatably mounted in and extending downwardly through the lower end of the hopper to feed material through said lower end of the hopper; a distributing disk secured to the lower end of the feed worm for rotation therewith; a geared driving connection between the axle and the feed worm; spaced rods pivotally connected at one end to the rear end of the body and slidable in the hopper wall at the upper end of the hopper; and a pair of springs on each rod, the springs of each pair exerting pressure against opposite sides, respectively, of the hopper wall.

2,529,890
PROCESS FOR PRODUCING ANTIHALATION PHOTOGRAPHIC ARTICLE
André Emile Van Dormael, Heverlee-Louvain, and Laurent Aloys Van der Auwera, Mortsel-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium
No Drawing. Application September 23, 1947, Serial No. 775,741. In Great Britain September 27, 1946
1 Claim. (Cl. 117—34)

A process for the manufacture of an anti-halation layer on a photographic glass plate, which comprises spreading upon the glass plate a mixture of furfurylidene-4-methyl-3-phenyl-1-pyrazolone-5 dissolved in alcohol and methylenedisalicylic acid in alcohol.

2,529,891
IMPULSE COUPLING
Edward A. Vogel and Howard R. Lindbeck, Beloit, Wis., assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application January 31, 1949, Serial No. 73,852
4 Claims. (Cl. 171—209)

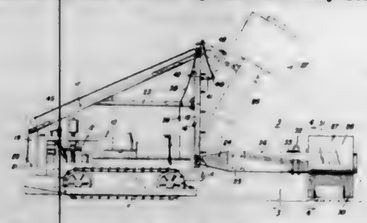


1. In an impulse coupling for a magneto, a cup-shaped driving member, a driven member including a magneto shaft mounting hub and a disc thereon, a pawl plate adapted for mounting in face-to-face relation with the hub disc, pawl elements carried by said pawl plate, said hub disc having a plurality of threaded holes therein arranged in sets, said pawl plate having holes therein equal in number to the number of holes in each of the sets of holes in the hub disc, threaded elements for attaching the pawl plate to the disc, said threaded elements extending through the holes in the pawl plate and threaded into the holes of a selected set of the threaded holes in the hub disc, thereby connecting the pawl plate and disc in relative angular positions determined by the selected set of disc holes receiving the threaded elements, and interengaging radial teeth on the mating faces of the pawl plate and hub disc.

2,529,892
POWER HAMMER ATTACHMENT FOR TRACTORS
Archie Q. Adams, Clatskanie, Oreg.
Application September 15, 1947, Serial No. 774,086
1 Claim. (Cl. 262—14)

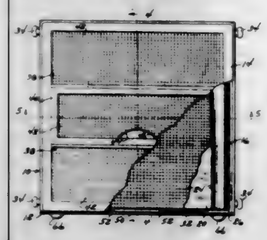
A power hammer attachment for a tractor having a power takeoff which includes a vertical

frame adapted to be fixed to one end of the tractor, a lever pivoted at one end adjacent the lower end of the frame to swing in a vertical arc, a head mounted on the lever adjacent its end remote from the pivoted end, a sheave mounted in the frame adjacent its upper end, a winding drum coupled to the power takeoff of the tractor, a cable trained over the sheave and being coupled at one end to the winding drum for winding thereon, a link carried by the lever adjacent the



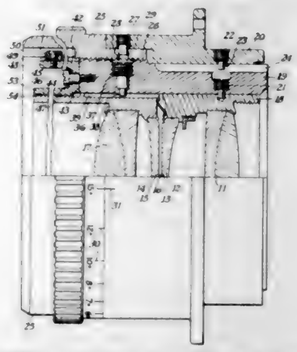
head, a loop on the end of the cable remote from the winding drum, a hook pivotally mounted on the loop for engagement through the link on the lever detachably to couple the lever to the cable, a retaining ring slidable on the loop for engaging the hook and holding it in coupling position, a fork pivoted on the frame near its upper end and a manually actuated cable to swing the fork about its pivot into ring-engaging and releasing position when the lever attains a predetermined elevated position relative to the frame.

2,529,893
COLLAPSIBLE POULTRY CRATE
Louis L. Albert, Irvington, N. J.
Application May 10, 1946, Serial No. 668,746
1 Claim. (Cl. 119—19)



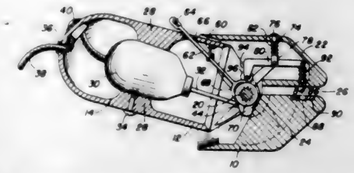
A collapsible poultry crate for use in shipping poultry in alive condition, which comprises a bottom frame, having an inwardly extending ledge on an inner surface thereof adjacent the bottom edge of said frame, a removable floor positioned on said ledge, a wire mesh floor secured to the inner surface of the frame above and parallel to the said first floor, the frame intermediate of said floors being provided with ventilating apertures, an upper frame, corner posts hinged at one end to the inner surface of said bottom frame in vertical relation to said bottom frame and supporting the upper frame on the upper end thereof, side portions hinged to said bottom frame in vertical position and engaging said corner posts to completely enclose said crate, and the upper frame being provided with a depending peripheral flange engaging the outer surfaces of said sides and corner posts, parallel relatively spaced members mounted in said upper frame, a removable frame supported by said members and said upper frame and said removable frame provided with sections of wire mesh, said removable frame provided with a hand hold for the removal thereof and a door in one of said sides for access to said crate and feeding troughs carried by said sides.

2,529,894
OBJECTIVE MOUNT
Fred E. Altman and Joseph A. Blash, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 28, 1948, Serial No. 29,798
14 Claims. (Cl. 88—57)



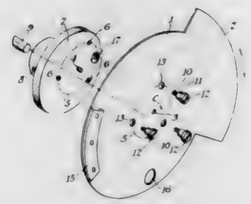
1. An optical objective comprising at least four components separated by air spaces, one of said air spaces having zero power, means for focusing the objective as a whole to vary the magnification, means for varying the air space of zero power, and means for coordinating the change in air space of zero power with the change in magnification to maintain a flat image field at different magnifications.

2,529,895
ELECTRICAL CUTTING AND PUNCHING MACHINE
George V. Anderson, Hailey, Idaho
Application May 6, 1948, Serial No. 25,385
9 Claims. (Cl. 164—89.5)



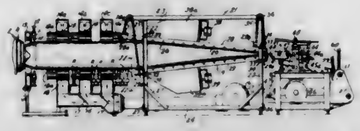
9. A combination cutter and puncher comprising a head having an upper fixed jaw and a lower fixed jaw spaced relative to the upper jaw, said head being open at one end, a handle engaging the open end of the head, a driven shaft pivotally connecting the head to the handle, an electric motor mounted in the handle and having a drive shaft, means operatively connecting the driven shaft to the drive shaft, a cutter carried by the driven shaft for rotation therewith, said cutter having cutting edges, a stationary plate carried by the lower cutting jaw and having a cutting edge cooperating with the cutting edges of the cutter, a slidable pin carried by the upper jaw, resilient means urging the slidable pin to a lowered position, a lever pivoted intermediate its ends to said slidable pin, a cloth puncher pivoted to one end of said lever, said upper jaw having a guide opening slidably engaging the puncher, a spring for urging the puncher in a raised position, a roller carried by the remaining end of the lever, a cam rotatably carried by the driven shaft for engaging the roller, a friction plate fixed on the driven shaft normally spaced from the cam, a collar slidably carried by the driven shaft, and a lever for urging the collar into engagement with the cam for rotation of the cam with the driven shaft.

2,529,896
SHUTTER FOR MOTION-PICTURE APPARATUS
Lee T. Askren, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 8, 1947, Serial No. 784,905
5 Claims. (Cl. 88—19.3)



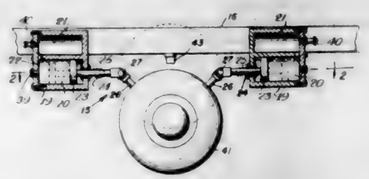
2. A shutter mechanism for motion picture apparatus comprising a driven shaft, a pivot eccentrically carried thereby, a shutter pivotally mounted to turn on the pivot, means for limiting the turning movement of the shutter on the pivot, said shutter being balanced and having a center of gravity radially offset from the pivot whereby variations in angular speeds of the driven shaft at substantially operating speed will not be transmitted to the shutter.

2,529,897
PROCESS OF AND APPARATUS FOR MANUFACTURING THIN WALL TUBING
James Bailey, West Hartford, and Clarence G. Reber, Newington, Conn., assignors to Plax Corporation, Hartford, Conn., a corporation of Delaware
Application January 17, 1948, Serial No. 2,936
19 Claims. (Cl. 18—14)



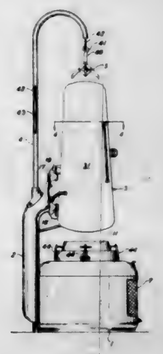
1. The process of forming tubing of thermoplastic material which includes continuously extruding solvent-free thermoplastic material in a plastic condition through an annular die in the form of a tube, collapsing the tubing at a point downstream of said die, introducing fluid pressure into the tube and expanding a portion of the tube between the die and the point of collapse by blowing the tube upstream of said point to a predetermined size larger than its extrusion diameter, and automatically regulating the blowing pressure to maintain said predetermined size.

2,529,898
AXLE SUSPENSION DEVICE FOR VEHICLES
Albert Lloyd Batik, New York, N. Y.
Application July 14, 1947, Serial No. 760,885
1 Claim. (Cl. 280—124)



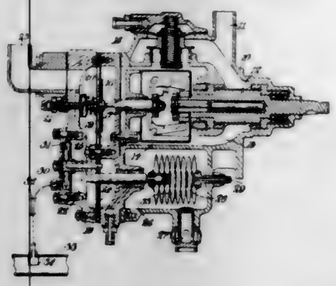
In a device of the character described, the combination of a non-rotatable axle housing having a cylindrical outer surface provided with a plurality of spaced annular grooves, a pair of collar-like members secured to said housing at the opposite sides of said grooves, inturned opposing flanges provided on said members, a pair of arcuate guides disposed in coplanar relation between the members and provided with arcuate grooves to slidably receive said flanges, outstretched suspension rods provided on said guides, said guides having concave inner surfaces concentric with and spaced from the outer surface of said housing, and sets of rotatable anti-friction elements provided in said grooves and engaging the concave surfaces of said guides.

2,529,899
PRESSING MACHINE FOR PANTS AND THE LIKE
Howard O. Bayler, Los Angeles, Calif.
Application February 21, 1948, Serial No. 9,996
5 Claims. (Cl. 38—21)



1. In a device for pressing trousers and the like, the device having a base with means at the top thereof adapted to receive the open waist portion of an inverted pair of pants, a standard extending upwardly from one side of the base, an elongated vertically arranged central mandrel supported by the standard over the base and which mandrel is configurated to receive a pants' leg on each side thereof and the crotch of a pair of pants at the bottom thereof, and a pair of outer mandrels hingedly supported by the standard which are adapted to close-in the central mandrel and press pants legs.

2,529,900
FUEL FLOW CONTROL FOR INTERNAL-COMBUSTION ENGINES
Paul Whibley Bedale, Littleover, Derby, and John Oliver Philip Hughes, Duffield, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application October 29, 1946, Serial No. 706,314
In Great Britain October 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 3, 1965
1 Claim. (Cl. 123—139)



A fuel-injection device for a supercharged internal combustion engine comprising in combination a fuel-pump; a discharge conduit from said fuel-pump; a first throttle valve in said conduit; a second throttle valve in said conduit in series with and downstream of said first throttle valve; a third throttle valve in said conduit in series with said first throttle valve and in parallel with said second throttle valve; a speed-responsive loading device loading said first throttle valve to open with a load proportional to the square of engine speed N; a pressure-responsive loading device loading said first throttle valve to close with a load proportional to the pressure drop across said second and third throttle valves, whereby in operation said first throttle valve is adjusted to maintain said pressure drop directly proportional to the square of engine speed; pressure responsive means responsive to boost pressure p_c and to ambient atmospheric pressure p_a; an operative connection between said pressure responsive means and said second throttle valve, whereby said second throttle-valve is adjusted solely by said pressure responsive means to have an area which varies according to the function

$$\left(p_c-\frac{1}{n}p_a\right)$$

where n is a constant approximately equal to the compression ratio of the engine; temperature responsive means responsive to induction temperature t_c; an operative connection between said temperature responsive means and said third throttle valve; whereby said third throttle valve is adjusted solely by said temperature responsive device to have an area which varies according to the function (t_0-t_c), t_0 being a mean value of induction temperature; the combination being operative to control the fuel flow F through said conduit in accordance with the equation

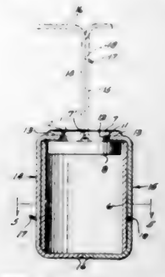
$$F=N\left[k_1\left(p_c-\frac{1}{n}p_a\right)+k_2(t_0-t_c)\right]$$

where k_1 and k_2 are constants.

2,529,901
BAIT CASTING DEVICE
Leo S. Behrens, Baton Rouge, La.
Application August 18, 1949, Serial No. 110,963
6 Claims. (Cl. 124—17)

1. A casting device comprising a base member having a longitudinal slot therein, a block slidably mounted in said base and guided by said slot, resilient means urging said block toward one end of said base, means for retaining the block at the other end of said base, and catapult means attached to said block, said catapult means comprising a lever pivotally connected medially thereof to said block.

2,529,902
TOBACCO CARTRIDGE FOR SMOKING PIPES
Leo Beiser, New York, N. Y.
Application August 30, 1946, Serial No. 694,018
1 Claim. (Cl. 131—3)

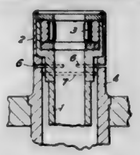


A device for filling smoking pipes with tobacco, comprising a tubular casing for holding tobacco and having its opposite ends open, diametrically oppositely arranged finger engaging elements disposed adjacent to the upper end of the tubular casing and bent laterally outwardly from the sides of the tubular casing and integral therewith, laterally inwardly projecting plunger stops formed from the material of the finger engaging elements and projecting inwardly of the sides of the tubular casing at the top end thereof, a plunger longitudinally slidably mounted within the tubular casing, lateral arms hingedly connected to the top of the plunger near opposite sides of the same and adapted to swing from inwardly to outwardly projecting lateral positions, longitudinal arms carried by the lateral arms and adapted to lie close to opposite sides of the tubular casing when the lateral arms are in the laterally outwardly projecting positions, one longitudinal arm having an opening, the other longitudinal arm carrying a resilient latch element which projects laterally outwardly when the longitudinal arms lie close to the sides of the tubular casing, and flat lateral extensions on the lower ends of the longitudinal arms and projecting inwardly adjacent to the bottom end of the tubular casing to positions where their free edges meet to completely cover the bottom end of the tubular casing when the longitudinal arms lie close to the sides of the casing, the longitudinal arms being swingable to axially extended contacting positions above the top end of the tubular casing where the flat lateral extensions project laterally outwardly upon opposite sides of the contacting arms to form a substantially flat thumb actuator for the plunger, the resilient latch element engaging in the opening of the opposite longitudinal arm while the longitudinal arms are axially extended to detachably secure the longitudinal arms together.

2,529,903
FRAME STRUCTURE JOINT
Karl Vilhelm Rudolf Berggren, Stockholm, Sweden
Application July 24, 1945, Serial No. 606,784
In Sweden March 9, 1944
2 Claims. (Cl. 20—0.5)

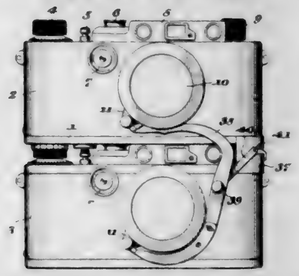
1. Frame structure joint comprising three elongated structural elements disposed with their longitudinal axes in a common plane and intersecting each other at a common point, one of said elements being formed in the zone of the joint with a plurality of open mutually spaced slots parallel to each other and to said common plane, a second element having in the zone of the joint a plurality of mutually spaced lamellae fitted in some of the slots of said first element and the third element having in the zone of the joint a plurality of mutually spaced lamellae fitted in others of the said slots of the said first element, and means to secure the lamellae of said second and third elements in the slots of said first element.

2,529,904
HIGH-SPEED SPINNING OR TWISTING SPINDLE
Karl Beerli, Uster, Switzerland, assignor to Spindel-, Motoren-und Maschinenfabrik A. G., Uster, Switzerland
Application February 4, 1948, Serial No. 6,280
In Switzerland February 7, 1947
5 Claims. (Cl. 308—228)



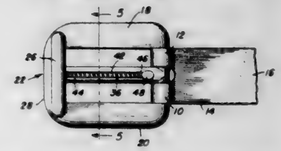
1. In a high speed spinning spindle mounting, a bearing sleeve for holding the spindle shaft, a bearing housing for holding the said bearing sleeve, said bearing sleeve and spindle housing being united toward their outer ends into a unitary body, by mutually interfitting portions one of said portions near the location of the interfitting being provided in different transverse planes with a plurality of slots, the adjacent groups of slots being peripherally offset with respect to each other so that attachment bars will be produced that are correspondingly offset with respect to each other, for the connecting bars resulting from the cross slots.

2,529,905
APPARATUS FOR COMBINING TWO CAMERAS
Willem Lodewijk Berssenbrugge, The Hague, Netherlands, assignor to E. Leitz, Inc., New York, N. Y.
Application March 14, 1946, Serial No. 654,251
In the Netherlands February 15, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires February 15, 1961
11 Claims. (Cl. 95—11)



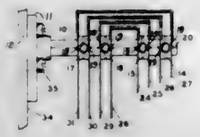
1. An apparatus for combining two cameras comprising a loading cover on one of said cameras, means on said loading cover for securing the other camera detachably thereto, means engaging the shutter operating means of each camera acting to transmit movement of the shutter operator of one camera to the shutter operator of the other camera and means on said loading cover for transmitting the actuation of the shutter operator of the first camera to actuate the shutter operator of the second camera through said engaging means.

2,529,906
BELT BUCKLE
Arthur Biery, Pine Island, Minn., assignor of one-half to Lawrence W. Thomforde, Pine Island, Minn.
Application January 13, 1948, Serial No. 1,960
2 Claims. (Cl. 24—163)



1. A belt buckle comprising an open, substantially rectangular frame, a tubular guide paralleling the longer sides of the frame and having end portions integrally formed with the shorter sides of said frame, said guide having a longitudinal slot therein, a substantially L-shaped member having its longer leg received in said guide for sliding movement, the shorter leg of said L-shaped member being slidably received in said slot, a lip integrally formed with the shorter leg of said L-shaped member, a shoulder provided on the longer leg of said L-shaped member, a coil spring embracing the longer leg of said L-shaped member and biased between said shoulder and one side of said frame to urge said L-shaped member in one direction, and a substantially U-shaped guide having its leg portions rigidly secured to said frame, the web of said U-shaped guide overlying and being spaced laterally from one side of said frame to define a belt receiving opening.

2,529,907
MOUNTING FOR INSTRUMENT POINTERS AND PEN ARMS
Clinton A. Blakeslee, Middlebury, Anthony J. Balanda, Wolcott, and Ernest F. Dyson, Waterbury, Conn., assignors to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application November 27, 1945, Serial No. 631,048
2 Claims. (Cl. 346—145)

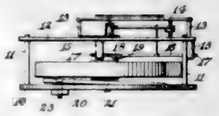


1. In a measuring instrument: a pillar, a plurality of bracket means adapted to be supported thereon at one end and including means to selectively clamp the same independently therealong, bearing members at the opposite end of each of said bracket means and each including oppositely-directed pins affording trunnions extending at right angles to a bracket means, all trunnions being aligned with one another, and a U-shaped deflectable member fitted over a pair of the bracket means, its arms engaging respective and oppositely-directed trunnions thereof.

2,529,908
CARGO HOIST
William A. Bortner, Baltimore, Md., William W. Collins, Wilmington, Del., and Eugene J. Tousignan, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application September 15, 1945, Serial No. 616,564
13 Claims. (Cl. 244—137)

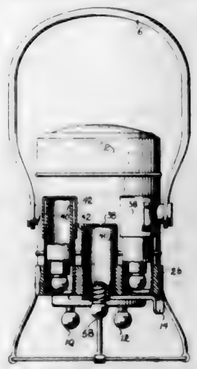
3. In an airplane comprising a fuselage, wings extending laterally therefrom adjacent the top of the fuselage, oppositely disposed cargo loading doorways in the sides of said fuselage under said wings, a continuous track means having its end portions secured in and extending along the under side of the wings and its intermediate portion extending through said fuselage and doorways, a carriage mounted to move along said track means, said track means being unobstructed throughout its entire length whereby said carriage is movable therealong from a position under one wing through the fuselage to a position under the opposite wing, and cargo hoisting means mounted on said carriage.

2,529,909
MOUNTING FOR FLEXIBLE CAPSULES FOR OPERATING TRANSMISSIONS
Tom Bowen, Brighton, England, assignor to Pullars Instruments Limited (formerly Pullars Electric Co. (Brighton) Limited), Brighton, England, a British company
Application July 17, 1947, Serial No. 761,726
In Great Britain December 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 6, 1965
4 Claims. (Cl. 73—386)



1. An instrument responsive to changes of pressure comprising a metal mounting plate, a resilient tongue punched out of said plate so as to be secured thereto at one end, a set screw engaging a threaded hole in said plate and engaging said tongue so as to adjust its flexure, a capsule mounted on said tongue and having at least one flexible wall adapted to be subjected to varying pressure, a mechanical transmission mounted on said plate and having a part connected to said capsule.

2,529,910
ELECTRIC LANTERN
Lee Broshears, Fowler, Ind.
Application May 15, 1946, Serial No. 669,934
2 Claims. (Cl. 240—10.63)

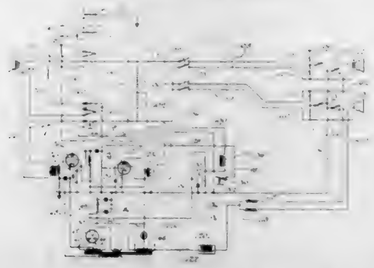


1. A portable electric signal lamp comprising a housing, lamps extending from the bottom of the housing, a support partially surrounding, and secured to one side of the housing, and said support being provided with vertically extending openings therein, and the bottom of said support extending into the opening to form an annular flange for the opening, contacts insulatingly connected to the support and extending into the opening and contacts insulatingly connected to the flange, a cylinder disposed above the contacts within the opening and extending upwardly and outwardly of the opening, a cap having spaced cylindrical walls adapted to be placed over the cylinder and have sliding engagement with the cylinder, the cap having a lamp bulb socket portion, contact terminals extending through the portion and adapted to respectively engage with the contacts supported by said flange as the cap is moved downwardly, to energize the lamp bulb within the socket portion, and means for retaining the cap in an elevated position whereby to confine the lamp bulb within the opening of the support and out of view and electrically disengaged from the contacts on the flange, an electric source within the housing and connectors extending from the contacts of the support into the housing for connection with the electric source.

2,529,911
COPOLYMERS OF ACRYLONITRILE AND N-ALLYL AND N-2-METHALLYL CYANIDES
John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application January 6, 1950, Serial No. 137,258
12 Claims. (Cl. 260—85.5)

1. A copolymer of from 60 to 98% by weight of acrylonitrile and from 40 to 2% by weight of a compound selected from the group consisting of N-allyl cyanide and N-2-methallyl cyanide.

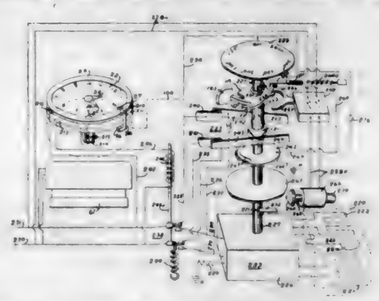
2,529,912
INTERCOMMUNICATING APPARATUS
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application August 13, 1947, Serial No. 768,367
15 Claims. (Cl. 179—1)



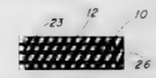
1. Communication apparatus including an amplifier, a device usable both as a receiver and a transmitter, means including a communication control switch for selectively connecting said device to the input or output of said amplifier and energizing the amplifier to render it operative, means including a relay controlled by said communication control switch for controlling the operativeness of the energized amplifier, a second device usable as a receiver and transmitter, and means including switch means located in proximity to said second device controlling said relay for also controlling the operativeness of the energized amplifier.

2,529,913
DOMESTIC APPLIANCE
Robert R. Candor, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application July 19, 1943, Serial No. 495,293, now Patent No. 2,416,084, dated February 18, 1947. Divided and this application April 17, 1946, Serial No. 662,776
17 Claims. (Cl. 161—1)

1. A timer having a time hand, an on indicator, an off indicator, means to lock said time hand and on indicator together when said time hand coincides with said on indicator after said on indicator has been set away from said off indicator, and means to unlock said time hand and on indicator when said time hand carries said on indicator to said off indicator.

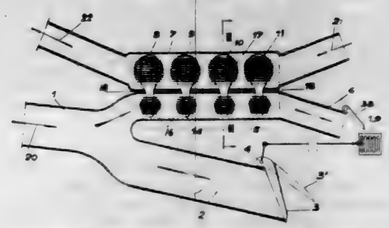


2,529,914
ELECTRICAL HEATING ELEMENT
Ansel P. Challenner, Norman, Okla., assignor to Denison Mattress Factory, Denison, Tex., a partnership
Application June 22, 1950, Serial No. 169,623
6 Claims. (Cl. 201—63)



1. An electric heating element comprising an elongate inner conductor surrounded with electrical insulating material; an outer elongated cylindrical conductor closely surrounding said insulating material, said inner and outer conductors having means to electrically connect at one end of the element in series with a pair of terminals of a source of electrical energy, said inner and outer conductors at the other end of the element being electrically connected together, said inner conductor having substantially higher electrical resistance than said outer conductor whereby substantially all of the potential drop of the heating element is confined to said inner conductor.

2,529,915
HEATING AND ANTIFREEZING APPARATUS FOR AIRCRAFT
Gaston Chausson, Asnieres, France, assignor to Societe Anonyme des Usines Chausson, Asnieres, France, a company of France
Application July 17, 1946, Serial No. 684,343
In France August 3, 1945
3 Claims. (Cl. 237—2)



1. Heating apparatus for aircraft comprising, in combination, an engine exhaust pipe divided

into two branches, one of said branches being smaller in diameter than the exhaust pipe proper and than the other branch, an air supply pipe extending along a portion of said smaller exhaust branch and in side-by-side relation therewith, a plurality of closed boiler heat exchange units extending between and into said smaller exhaust branch and air supply pipe, and closure members selectively operable to close said exhaust branches.

2,529,916
COMBINED IGNITION AND STARTER SWITCH
Patrick H. Childress, Waynesboro, Va., assignor of one-fourth to Dennis W. May, Waynesboro, Va.
Application October 12, 1948, Serial No. 54,147
7 Claims. (Cl. 200—44)

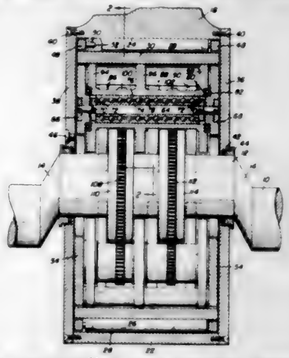
2. A combined ignition and starter switch comprising a housing, a stationary contact in said housing, a movable contact for an ignition circuit and a movable contact for a starter circuit in said housing normally in an opened position, the movable contact for the ignition being tiltable from a normally opened position into engagement with the stationary contact for closing the ignition circuit, the movable contact for the starter circuit being slidable from a normally opened position into engagement with the stationary contact for closing the starter circuit, a stem in said housing between the said movable contacts, a key adapted to be thrust longitudinally into the housing and fitted about the stem, said key having its inner end formed with a bevelled surface constituting a cam for engaging the movable contact of the ignition circuit and tilting the same to its closed position when the key is thrust into the housing, and a member adapted to be actuated by turning of the key to shift the contact for the starter circuit to its closed position while the key holds the ignition circuit closed.

2,529,917
PROCESS FOR PREPARING ALKYL ISODEHYDROACETATES
Harry W. Coover, James E. Guillet, and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 24, 1949, Serial No. 117,716
17 Claims. (Cl. 260—344)

1. A process for preparing an alkyl isodehydroacetate comprising condensing, in a closed vessel, an alkyl acetoacetate containing from 1 to 6 carbon atoms in the alkyl group at a temperature of from 25° to 100° C. in the presence of an initial concentration of from 1.2 to 4 mols of hydrogen chloride per mol of alkyl acetoacetate.

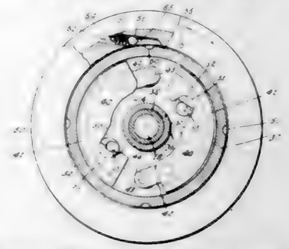
2,529,918
RING ROLL BEARING
Royal G. Cramer, Zanesville, Ohio
Application April 18, 1949, Serial No. 88,179
11 Claims. (Cl. 308—205)

1. A bearing assembly comprising a shaft having a gear thereon, a plurality of bearing rolls surrounding said shaft, each of said bearing rolls having a gear meshing with said shaft gear, a bearing sleeve rotatably supported upon said shaft by said bearing rolls, an outer bearing



member surrounding said bearing sleeve, a plurality of anti-friction bearing elements interposed between said outer member and said bearing sleeve.

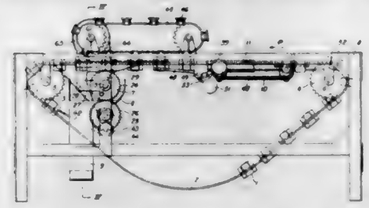
2,529,919
AUTOMATIC CLUTCH FOR MOTOR BICYCLES
George J. Cunningham, Indianapolis, Ind.
Application August 27, 1947, Serial No. 770,802
16 Claims. (Cl. 192—48)



1. A motor-bike clutch, comprising a clutch driving-member, a clutch driven-member, a clutch drum on said driven member, clutch shoes on said driving member and movable rearwardly of the normal direction of rotation thereof, means operative upon such rearward movement to progressively force said shoes outward into uniform clutching engagement with said drum, whereby said clutch has a servo action, spring means connected to urge said clutch shoes forward in opposition to their rearward movement by said servo action and capable of overcoming said servo action, and centrifugal means connected to said shoes to oppose the force of said spring means and effective to overcome it at normal cruising speeds of said driving member but substantially ineffective against it at idling speeds.

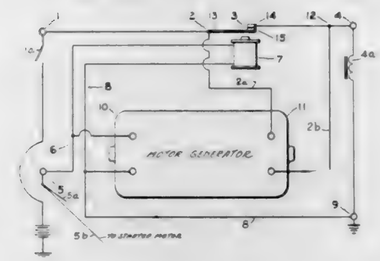
2,529,920
MEANS FOR DRESSING FISH
Paul Danielsson, Stora Essingen, Sweden, assignor to Arenco Aktiebolag, Stockholm, Sweden, a joint-stock company of Sweden
Application December 27, 1946, Serial No. 718,686
In Sweden December 29, 1945
19 Claims. (Cl. 17—3)

1. In a fish dressing machine, a spit having a free end, means associated with said spit for relatively moving the fish and said spit to cause said spit to enter the gill openings of the fish by its free end and to force a portion of the gills out of the fish, gill removing means operatively associated with the spit, and driving means associated with said gill removing means



and said spit for relatively moving said gill removing means and said spit to cause said gill removing means to catch the gills near to the spit and at a point behind the free end of the spit and to move said spit and said gill removing means apart to pull the gills out of the fish supported by said spit.

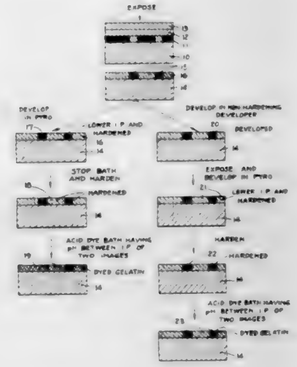
2,529,921
STARTER BOOSTER
Elton Davolt, Kelso, Wash.
Application May 6, 1946, Serial No. 667,518
6 Claims. (Cl. 123—179)



1. In an engine starting system comprising a battery, a starter motor, a switch therefor and a spark coil primary circuit: an auxiliary motor-generator set; electric conducting means, connecting the starter motor switch with the auxiliary motor-generator set, adapted to establish activating means to the auxiliary motor-generator set by establishing electrical connection between said set and the battery during the period the starter switch is closed; electric conducting connection between the generator of the auxiliary motor-generator set and the spark coil primary circuit, adapted to cause current to flow from the auxiliary motor-generator to the spark coil primary circuit during the time the starter motor switch is closed.

2,529,922
COLOR PROCESS INVOLVING CHANGE IN ISOELECTRIC POINT OF GELATIN
David Dean and Robert C. Houck, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 28, 1948, Serial No. 12,018
5 Claims. (Cl. 95—88)

1. The method of forming a colored image in a gelatino-silver halide emulsion layer which comprises exposing the layer to a subject, developing the exposed area of said layer to form developed and undeveloped areas, hardening and lowering the isoelectric point of the gelatin in only one of said areas by development in a tanning developer, hardening the gelatin in the remaining area of said layer without changing its isoelectric point, and treating the layer with a solution of a dye at a pH between the pH's of the isoelectric points of the two areas to dye the gelatin of one of said areas without dyeing the gelatin in the other of said areas.



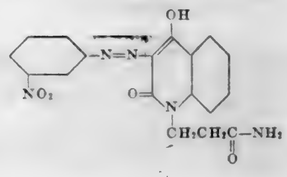
2,529,923
2-(2-HYDROXYETHOXY)ETHYLAMINE
Joseph B. Dickey, Rochester, N. Y., and James G. McNally, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application April 22, 1943, Serial No. 484,078. Divided and this application October 1, 1946, Serial No. 700,374
7 Claims. (Cl. 260—584)

1. 2-(hydroxyethoxy)ethylamine.

2. A process for preparing 2-(2-hydroxyethoxy)ethylamine comprising condensing ammonia with diethylene glycol, at a temperature of from 160 to 400° C., in the presence of a hydrogenation catalyst.

2,529,924
MONOAZO COMPOUNDS CONTAINING A 4-HYDROXYQUINOLONE-2 GROUP
Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application January 7, 1948, Serial No. 1,065
4 Claims. (Cl. 260—155)

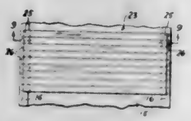
3. The azo dye compound having the formula:



2,529,925
BOAT TRAILER
Joe W. Donalson and Keith B. Oberhansly, Panama City, Fla.; said Oberhansly assignor to Frederick B. Hanna, Logansport, Ind.
Application August 27, 1946, Serial No. 693,341
2 Claims. (Cl. 214—65)

1. A boat carrying trailer comprising: a pair of spaced longitudinal frame members, a transverse frame member connecting the spaced ends of said longitudinal members, a rotatable shaft mounted above and in the plane of said transverse member, a pair of vertical strut members extending downwardly from the ends of said transverse member, a wheel mounted at the lower end of each of said vertical members, a pair of winches slidably mounted on said shaft and adjustable axially of said shaft to exert vertical lift on the opposite sides of a boat, a flexible supporting member underlying said transverse member and having means at each end for permanently and adjustably securing the same adjacent the junction of said transverse members and said vertical members whereby to support a boat tightly against said transverse member without loading said winches.

2,529,926
VISIBLE INDEX
William A. Downs, Hempstead, N. Y.
Application August 8, 1944, Serial No. 548,548
11 Claims. (Cl. 129—16.7)



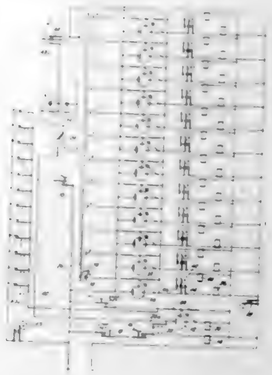
7. In a visible index of the type embodying a panel having spaced inwardly directed parallel flanges, the combination with said panel of a series of narrow elongated visible index members cooperating with said flanges and slidably mounted on said panel in non-overlapping relation, each of said members being of a uniform thickness from end to end and having in each end thereof a slot of a size and depth slightly greater than the thickness and width of said flanges to freely receive the latter therein, and each of said members being formed of card stock, whereby index data can be posted on a plane surface thereof and each member can be flexed to endwise engage it with and disengage it from said flanges.

2,529,927
HAIRBRUSH WITH SLIDABLE BRISTLE CLEANING MEANS ATTACHED THERETO
Howard Wilson Fisk, Juneau, Alaska
Application May 27, 1946, Serial No. 672,423
2 Claims. (Cl. 15—159)

1. A hair brush including a head having bristles extending from one side thereof, an apertured cleaning plate slidable on said bristles into and from engagement with said head, hooks on said plate slidable endwise through said head to guide sliding movement of said plate and having beaks for engaging said head on the side opposite said bristles to limit sliding movement of said plate from engagement with said head, said

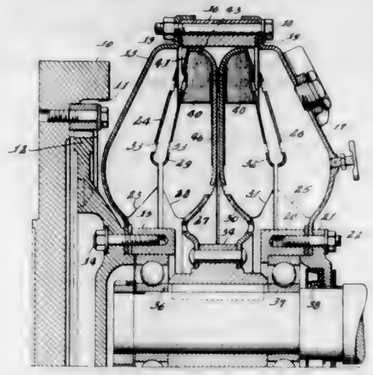
hooks being pivoted to said plate with pivots thereof spaced from the plate for swinging down against said head into parallel overlying relation thereto to hold said plate engaged with said head, said head having apertures therein at an angle to the plane of said head for receiving and frictionally locking said beaks therein to hold said hooks in downswung position.

2,529,928
TUBE FAILURE DETECTION CIRCUIT
Eugene A. Ford, deceased, late of Endicott, N. Y., by Endicott Trust Co., executor, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 30, 1949, Serial No. 102,224
11 Claims. (Cl. 315—324)



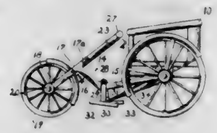
1. In an electrical control device having a work circuit including an electron tube, a current responsive control element in series with said tube, and means for periodically energizing said work circuit, a tube testing circuit including said electron tube, a relay having normally closed contact points in series with said tube in said testing circuit, means operative upon deenergization of said work circuit for energizing said testing circuit whereby a circuit completed through said tube will energize said relay and open the points thereof, a relay circuit including said relay and a current responsive device, and means operative upon energization of said testing circuit for energizing said relay circuit, thereby energizing said last named current responsive device upon failure of said tube to pass energizing current to said relay.

2,529,929
BLADE BLOCKS IN HYDRAULIC COUPLINGS
Maurice Foster, deceased, late of Rockford, Ill., by Richard T. Rehwald, administrator, Rockford, Ill., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application November 23, 1946, Serial No. 711,965
4 Claims. (Cl. 103—115)



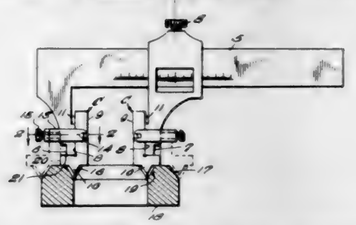
1. An hydraulic coupling member including an annular shell, an annular core ring and radial blades cooperably related to define radial passages, and fixed blade blocks inserted in selected and less than all of the passages, each block including a web closing the outer end of the associated passage and wings telescopically related to the adjacent blades.

2,529,930
TRICYCLE
Louise M. Jones Foulke, Brooklyn, N. Y.
Application February 20, 1948, Serial No. 9,809
1 Claim. (Cl. 280—282)



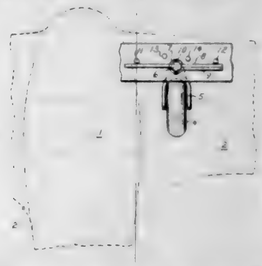
A tricycle comprising a frame having rear wheels thereon, said frame having a cylindrical sleeve on the forward end thereof, a cylindrical column pivotally mounted in said sleeve and extending from both ends thereof, the lower end of said column having a fork thereon, a dirigible wheel rotatably mounted in said fork, a steering post pivotally secured to the upper end of said column, and resilient means normally urging said post into alignment with said column, said column having an axial cylindrical socket in the upper end thereof, said post having an axial cylindrical socket in the lower end thereof, said sockets having the same diameter, said resilient means comprising a coiled spring having approximately one-half the length thereof mounted in one of said sockets and the remainder of the length thereof mounted in the other of said sockets, said spring having a diameter nearly equal to the diameter of said sockets.

2,529,931
AUXILIARY CONTACT FOR CALIPERS
John F. Gallup, Sr., Newington, Conn.
Application September 26, 1945, Serial No. 618,648
3 Claims. (Cl. 33—143)



1. In combination with calipers including a beam having a lateral fixed main contact at one end and a second coacting adjustable main contact movable on the beam, said main contacts having inner straight edge portions, an auxiliary contact for each of said main contacts comprising a shank and a work-contacting terminal on one end of said shank, said shank having a straight longitudinal outer edge flatly engageable with the inner straight edge portion of the associated main contact and provided with a transverse slot having an open end at the inner edge of said shank, and a screw clamp for securing each auxiliary contact to the associated main contact, said clamp comprising a U-shaped yoke embracing the associated main and auxiliary contacts and having a cross-pin engaged in the slot of said auxiliary contact to removably connect the latter to the clamp, and a set screw threaded through the outer portion of the yoke and impinging against the outer edge of said main contact.

2,529,932
AIRPLANE CROSS-WIND UNDERCARRIAGE
John Harlin Geisse, Madison, Wis.
Application November 14, 1947, Serial No. 786,118
6 Claims. (Cl. 244—103)

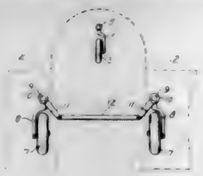


1. An airplane cross wind undercarriage including laterally spaced main wheels, caster mountings for said main wheels, and means yieldably resisting the castering of said main wheels, said means imposing a greater resistance to toeing in than toeing out.

2,529,933
AIRPLANE CROSS-WIND UNDERCARRIAGE
John Harlin Geisse, Madison, Wis.
Application December 20, 1947, Serial No. 792,910
8 Claims. (Cl. 244—103)

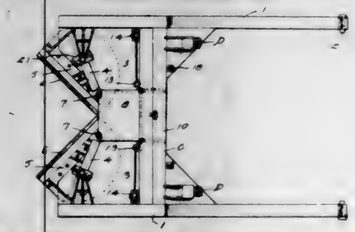
1. A cross-wind undercarriage for airplanes including laterally spaced ground engaging elements, caster mountings for said ground engag-

ing elements, and means constraining said ground engaging elements to caster simultaneously in the same direction, said means including



means constraining said ground engaging elements to toe out one relative to the other when castering.

2,529,934
CUTTER ATTACHMENT FOR TRACTORS
Dale Gracey, Osceola, and Eldon Cain, Leon, Iowa
Application May 20, 1949, Serial No. 94,452
1 Claim. (Cl. 144—34)

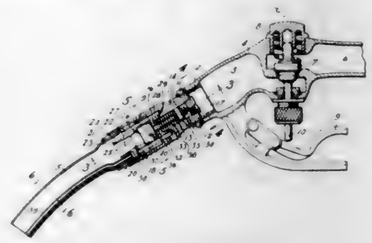


In a cutter attachment for tractors, a supporting frame consisting of parallel side bars adapted to be hinged to the tractor frame and formed at their front ends with inwardly extending base plates, a pair of oppositely disposed cutting blades mounted at the front of the supporting frame and working under said base plates, a guide-plate mounted for end-wise movement in the supporting frame behind the cutting blades, diagonally disposed blade closing arms working on the upper faces of the base plates and loosely connected at their rear ends with the front corners of the guide-plate, blade holders carried by said blade closing arms and attached to the cutting blades, cables connected to the inner or rear corners of the guide-plate, coil springs connected with the free ends of the cables and normally maintaining the cutting blades in operative or cutting position, pairs of oscillating bearing rollers for the blade closing arms, top bearing plates for said bearing rollers and horizontal supporting brackets extending inwardly from the front ends of the side members of the supporting frame to which said top plates are journaled.

2,529,935
ACID-FADING INHIBITION USING CERTAIN 1,4-DIARYL PIPERAZINES
Harry W. Grimmel, Riegelsville, and Alfred Guenther, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 15, 1947, Serial No. 780,106
10 Claims. (Cl. 8—61)

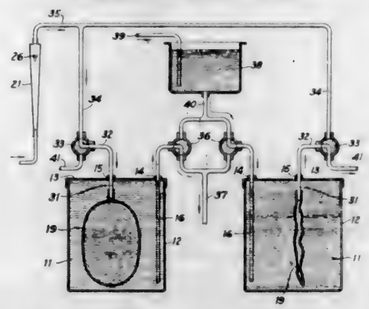
3. Textile material resistant to gas fading and stable to washing comprising cellulose acetate colored with an aminoanthraquinone dyestuff and containing 1,4-diphenyl piperazine.

2,529,936
AUTOMATIC SAFETY SHUTOFF VALVE FOR HOSE NOZZLES
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application August 22, 1946, Serial No. 692,213
1 Claim. (Cl. 226—127)



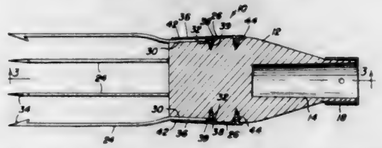
An automatic safety shut-off valve for hose nozzles, comprising, a first casing section having an inlet end adapted for connection to the outlet of a hose nozzle and having an inlet opening therein, said section having in its other end thereof a socket with a cylindrical wall and a flat base wall normal to the axis of the cylindrical wall, a cylinder located coaxially of said socket and extending from the base of the socket toward said inlet opening, the outer head of said cylinder being formed by part of the base of said socket, a piston in said cylinder, a rod fixed to the piston and extending through said outer head into the socket, a valve fixed to said rod and located in said socket, a spring in the cylinder around the rod for moving the piston toward said inlet end and said valve against the base of the socket, an inner head for the cylinder accessible from said inlet opening, said first section having supporting ribs for said cylinder extending from the inlet opening to and opening into the base of said socket, and two relatively large passages of arc-shaped cross section located between said ribs, said first section also having two relatively small passages one in each said rib and each connecting at one end to the outer end of the cylinder and at the other end opening into the base of said socket, a second casing section having a cylindrical wall engaged with the cylindrical wall of said socket and a flat inner end face abutting the flat base of the socket, said second casing having in its inner end face a chamber closed at one end by the base of the socket and housing said valve and encompassing the open ends of both said arc-shaped passages in said base, said second section having coaxially thereof a Venturi passage extending from the valve chamber to its outer end and two relatively small passages connecting at one end one with each of the first-named small passages and extending one to the throat of the Venturi passage and the other to the outer end of the second section, interengaging tongue and groove means on the engaged cylindrical surfaces of the first and second sections to insure registration of the respective passages therein, a spout having an outturned flange inserted into the outer end of the socket, an annular nut threaded into the outer end of said socket for pressing said flange against the outer end face of the second section and the latter against the base of the socket, and a vent conduit extending through said spout from the outlet end of the latter to the outer end of said second casing section.

2,529,937
LIQUID METERING DEVICE
Joseph B. Hale, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 2, 1944, Serial No. 552,537
3 Claims. (Cl. 222—263)



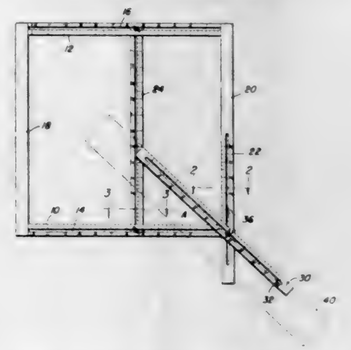
1. A liquid metering device comprising, in combination, a sealed receptacle containing a liquid to be discharged at a uniform rate, a discharge outlet for said receptacle, a flexible bag positioned within said liquid and adapted to be inflated to displace said liquid and to force the latter from said receptacle through said outlet, a tank, a water supply line connected to said tank, an overflow for said tank to maintain a constant level therein, a pipe connecting said tank to said bag to supply water thereto at a constant head to inflate said bag, a valve positioned in the pipe between said tank and bag to control the rate of supply of water to said bag to correspondingly control the rate of flow of the liquid from said receptacle, and means positioned intermediate said valve and said bag for indicating both the rate of flow of water to said bag and the rate of discharge of the liquid from said receptacle.

2,529,938
FROG GIG
Jesse F. Hearndon, Fellsmere, Fla.
Application February 4, 1948, Serial No. 6,249
1 Claim. (Cl. 294—61)



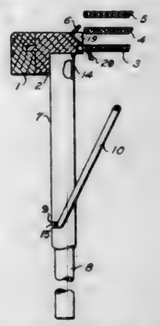
In a frog gig, the combination of a multi-sided head provided in lateral surfaces thereof with grooves extending inwardly from one end of the head and terminating at their inner ends in circular seats, a set of spears each including a shank and a circular eye at one end of the latter, the eyes of said spears being positioned in said seats and said shanks extending outwardly through said grooves beyond the adjacent end of the head, outer end portions of said shanks being offset laterally beyond the corresponding lateral surfaces of said head and terminating at their outer extremities in inturned hooks, fastening elements extending through said eyes into said head for securing the spears thereto, and a set of keeper plates secured to the lateral surfaces of the head and extending over portions of said shanks in said grooves to prevent lateral spreading of the outer portions of the spears.

2,529,939
RAFTER GAUGE
Ray C. Higgins, Charleston, Ill.
Application May 14, 1948, Serial No. 27,052
2 Claims. (Cl. 33—97)



1. A rafter gauge comprising a bottom rail and a top rail having slots, a first side rigidly attached to said bottom and top rails, a second side having a slot and graduations, said second side being attached at one end to said top rail and projecting below said bottom rail, the slot in said second side projecting below said bottom rail, an intermediate rail, means for attaching said intermediate rail to said top and bottom rail, said top and bottom rails having graduations thereon, a slide having an elongated aperture, and means adjustably attaching said slide to the second side.

2,529,940
FOLDING LEG TABLE
Walter C. Higley, Hillsdale, Mich.
Application December 6, 1945, Serial No. 633,175
3 Claims. (Cl. 311—77)



3. In a folding table having a permanent top provided with four angled ends and a marginal rim border on said top and removable tops re-

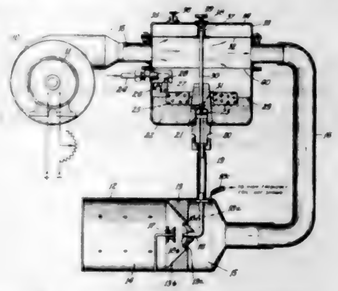
ceivable on the permanent top within the border the improvement comprising a sectional tubular leg pivoted to each angled end of said table and said leg having said sections in telescopic arrangement with each other, a pivoted spring tensioned V-shaped brace carried by the table and means on said leg fixed to said leg and having a tongue thereon co-acting with the apex of said brace to retain said sectional leg in extended adjusted relation of the sections to each other.

2,529,941
THERMOSTATIC SWITCH
Frederick Louis Hollister, Richmond, England
Application August 12, 1946, Serial No. 689,901
In Great Britain August 13, 1945
13 Claims. (Cl. 200—137)

1. An electric switch of the character described comprising a stationary contract, supporting means for said stationary contact, a movable contact, a channel lever carrying said contact, a support pivotally carrying said lever, a magnetic armature for effecting operation of said lever, magnetic means adjacent said contacts to afford a supplementary shunt path for magnetic flux for spark quenching on separation of said contacts, spring means for actuating said lever, and a pivoted insulated cradle support for said spring, said pivoted insulated cradle support being housed together with said lever within the channel confines thereof.

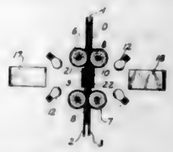
2,529,942
FUEL FEED CONTROL FOR OIL BURNERS
Harry B. Holthouse, Chicago, Ill., assignor, by mesne assignments, to Vapor Heating Corporation, a corporation of Delaware
Application February 28, 1946, Serial No. 650,826
2 Claims. (Cl. 261—30)

2. In a control apparatus for maintaining a uniform mixture of liquid fuel and air comprising means for supplying said air under pressure including a variable speed blower and a conduit leading therefrom to a predetermined location, a liquid fuel supply chamber interposed in and forming a part of said air conduit, whereby the fuel in the chamber is subjected to the air pressure maintained in said conduit, a fuel delivery conduit leading from a delivery orifice in said chamber to said predetermined location, a diaphragm positioned across said chamber and defining a wall portion of said conduit so as to respond directly to variations in the air pressure, a valve for controlling the outlet orifice secured to said diaphragm and adapted to proportionately vary the effective area of the fuel delivery orifice in relation to variations of the air pressure, and means for damping both the valve opening and valve closing movements of the diaphragm comprising means defining an air chamber positioned above the diaphragm having



a restricted opening to the atmosphere, a valve for varying the effective size of said restricted opening, a compression spring positioned to bear on the upper face of the diaphragm and means for adjusting the compression of said spring.

2,529,943
PHOTOGRAPHIC RECORDING EQUIPMENT
Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 22, 1946, Serial No. 642,600
2 Claims. (Cl. 88—24)

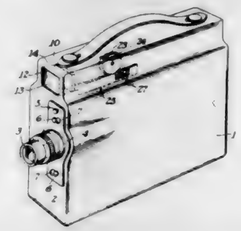


1. In photographic recording apparatus for simultaneously photographing both sides of a document, the combination with a camera, a document station, and reflecting means on each side of said station for directing to side by side positions the reflected images of the obverse and reverse sides of said document together with the images transmitted through said document onto a sensitized material in said camera, of light means for simultaneously illuminating both sides of said document when at said station, and a pair of filters each adjacent opposite sides of said document station and each complementary in color to the other filter, each of said filters being between said light means and the respective side of said document station and positioned in the optical axis of said apparatus, each transmitting light of a predetermined color to the respective sides of said document, and each absorbing light of complementary color to eliminate the images formed by the light transmitted through said document.

2,529,944
MULTIPLE IMAGE VIEW FINDER
Robert B. Houck, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 24, 1948, Serial No. 10,267
3 Claims. (Cl. 88—1.5)

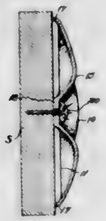
1. A view finder system for viewing a subject and adapted to have an adjustable field of view

to correspond to camera lenses of different focal length and comprising a negative front component including axially spaced positive and negative lenses forming a virtual image of the subject at a distance varying with the spacing between said two lenses, an ocular for reimaging said virtual image to form another virtual image, means for mounting said positive lens so that it can be moved from the system when the negative lens is moved to an extreme forward position in which it alone forms a virtual image of the subject at a distance beyond the range of said two lenses in combination, a slide member carrying said negative lens to adjust it axially of the system, a scale member slidably mounted in side-



by-side relation with said slide member and calibrated in camera lens focal lengths which cooperate with a stationary index, the adjacent edges of each of said slider and scale members provided with gear teeth, a pinion in toothed engagement with both of said slider and scale members for adjusting them simultaneously until the slider member assumes the position in which the negative lens reaches its extreme forward position at which time its teeth disengage the pinion and further adjustment of the pinion in moving the scale member to bring the shorter focal length reading opposite the index causes the scale member to engage and move the positive lens out of the system.

2,529,945
MOLDED SURFACE ORNAMENTATION
Nathaniel Hyman, Woodmere, N. Y.
Application March 22, 1949, Serial No. 82,827
2 Claims. (Cl. 41—10)



1. An ornamental block comprising a concavo-convex body of substantially rectangular shape, a depending rim integral with said body, said body being formed with a central valley and a depressed planar flat portion in the center of said valley, a boss formed on the underside of said block and directly below said flat portion, said rim being spaced vertically further from said flat portion than said boss, and diagonal creases extending across the body from the corners to said central valley.

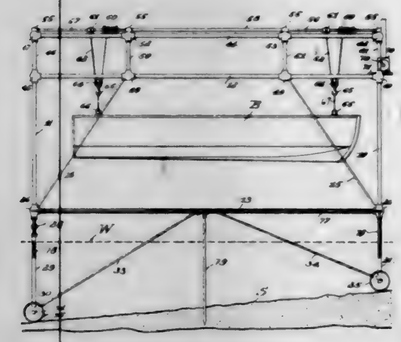
2,529,946
COOLING DEVICE FOR THE CASINGS OF THERMIC MOTORS, INCLUDING GAS TURBINES
Roger Jean Imbert, Paris, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application August 27, 1945, Serial No. 612,865
In France October 30, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1961
3 Claims. (Cl. 60—44)

1. In or for gas turbine plants, a device for cooling the pipes, burner casings and similar structures which are traversed by hot gases, said device comprising an inner heat resistant wall for enclosing the hot gases, an outer pressure resistant wall surrounding said inner wall and spaced therefrom, both said walls being provided with a plurality of substantially equally spaced ports, the ports of one wall being substantially opposite those of the other wall, openwork material disposed in the space between the two said walls, and means for supplying cooling aeriform fluid under pressure at the said ports of the outer wall, whereby said cooling fluid is caused to flow through said ports and said openwork material and the ports of the inner wall, in a direction substantially opposed to the flow of heat dissipated by said inner wall.

2,529,947
CLUTCH-HEAD TORQUE INDICATING WRENCH
Richard A. Johnson, West Union, Iowa
Application November 22, 1946, Serial No. 711,774
8 Claims. (Cl. 73—139)

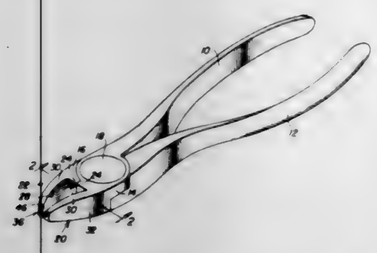
1. A socket wrench of a clutch-head type comprising an elongated handle having a fixed annular head, a centrally socketed clutch-head confined for limited rotation within the confines of said annular head, top and bottom washers on opposite sides of and fastened to said head, a third washer spaced from the top washer and also fastened to said head, a ring-like member interposed movably between the third-named and top washers and including detents frictionally contacting said top washer and further including an extension forming an indicating finger, the latter being parallel to and movable with as well as in relation to said handle.

2,529,948
COMBINED HOIST AND DOCK
Alton H. Jones, Canandaigua, N. Y., assignor of one-half to John Bain, Palmyra, N. Y.
Application April 29, 1946, Serial No. 665,817
2 Claims. (Cl. 61—67)



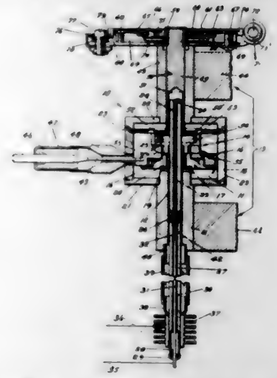
1. A movable dock for temporary storage of a boat, comprising a framework open at both ends to permit a boat readily to be moved into or out of the dock between the sides of the framework, supporting means for the framework comprising two pairs of legs, one pair of legs being disposed at the forward end of the dock and the other pair of legs being disposed at the rear end of the dock, a wheel secured to the foot of each leg to permit rolling the dock into and out of the water, said forward pair of legs, at least, being vertically adjustable to compensate for the slope of the bottom on which the wheels rest, and hoisting mechanism mounted on the top of the frame including means attachable to a boat.

2,529,949
CUTTER
Geoffrey B. Jones, Oak Park, and Bernard E. Jones, Oakland, Mich.
Application March 11, 1948, Serial No. 14,216
5 Claims. (Cl. 30—186)



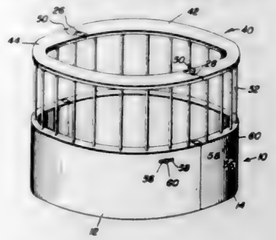
1. A cutting tool comprising a pair of pivoted levers terminating in inwardly tapered companion jaws, said jaws having opposed, downwardly and inwardly inclined faces, a channeled guide provided in each of said inclined faces, the channel guides of said jaws being perpendicular to each other, cutter blades slidably positioned in said guides, said blades having retainer grooves, and retainer shoulders integrally formed with said jaws and received in said retainer grooves.

2,529,950
TUNABLE ELECTRON DISCHARGE DEVICE
Erich Nevin Kather, South Lincoln, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application May 10, 1946, Serial No. 668,847
7 Claims. (Cl. 250—27.5)



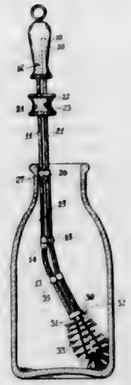
1. A tunable electron-discharge device comprising: a cathode; an anode structure, provided with a plurality of anode members, spaced from said cathode; each pair of adjacent anode members, together with that portion of said anode structure lying therebetween, defining a cavity resonator; and means, supported adjacent said cavity resonators and movable with respect thereto, for simultaneously altering the distributed capacitance and inductance thereof in the same direction; said last-named means including a plurality of conducting members each of which, is movable intermediate a pair of adjacent anode members to increase the capacitance existing therebetween, and a plurality of additional conducting members each of which, is movable intermediate a pair of adjacent anode members to decrease the existing inductance thereof; said first and second named conducting members lying in planes parallel to the longitudinal axes of said cavity resonators and being completely offset with respect to each other.

2,529,951
COMBINATION PLAY PEN AND SANDBOX
Kenneth I. Kaye, Green Bay, Wis.
Application January 12, 1949, Serial No. 70,486
4 Claims. (Cl. 5—99)



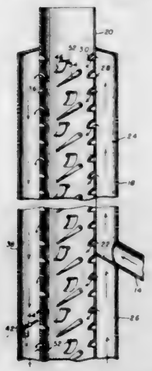
1. A combination play pen and sand box comprising upper and lower enclosures, a plurality of rods fixed to said upper enclosure and slidably carried by said lower enclosure, a channel provided in said lower enclosure, a locking bar slidably received in said channel and having a plurality of openings slidably receiving said rods, the lower ends of said rods adapted to bear against said locking bar adjacent said openings when the enclosures are extended relative to each other, and means for operating said locking bar.

2,529,952
BRUSH FOR CLEANING CONTAINERS
Joseph Leunis, Long Island City, N. Y.
Application January 24, 1948, Serial No. 4,151
11 Claims. (Cl. 15—164)



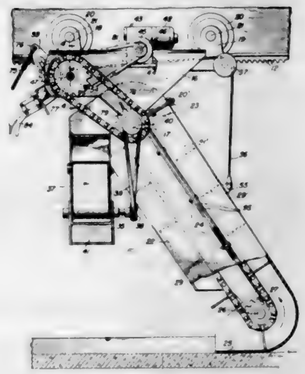
1. A tool device comprising a handle, a pair of shanks mounted in said handle, one shank being fixedly mounted and the other shank being slidably mounted, a member fixed to said slidably mounted shank, flexible resilient shank extensions fixed to and extending beyond the outer ends of said shanks, means connecting the outer ends of said extensions together, and an implement connected to said last named means.

2,529,953
GRAIN DRIER
Stanley J. Malecek, Morton, Minn.
Application July 7, 1947, Serial No. 759,322
6 Claims. (Cl. 34—65)



1. In a grain conditioning apparatus, a vertical housing, means for feeding grain into the top of the housing, means for removing grain at the bottom of the housing, treating gas inlet openings in one vertical wall of the housing, treating gas outlet openings in the opposite housing wall, a supply duct for said inlet openings, an exhaust duct for said gas outlet openings, baffles adjacent the gas inlets and outlets and extending inwardly, further inverted U-shaped baffle means at the bottom of said housing adjacent the grain removing means, and pivotally mounted baffles vertically spaced within the housing.

2,529,954
BARN CLEANER AND LOADING MACHINE
Floyd E. McCann, Milwaukee, Wis., assignor of one-half to Erwin C. Noeldner, Loyal, Wis.
Application March 11, 1946, Serial No. 653,528
4 Claims. (Cl. 198—93)

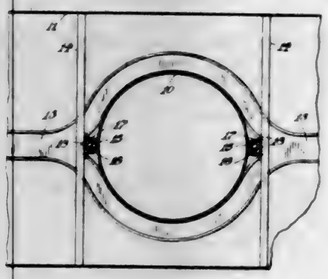


1. In a device for collecting manure and other waste material from a manure collecting trough in the ground, an overhead track arranged above and running along said trough, a trolley frame supported on said track for longitudinal movement along the same, a conveyor unit comprising a plurality of conveyors supported by said trolley frame, one of said conveyors being an elevating conveyor, provided with a collecting head adapted to enter into and to slide within said trough and with means for seizing the material entering said collecting head and for carrying it upwardly, a further transversely arranged conveyor located adjacent the first named conveyor near the upper end thereof, for substantially transversely directed transport, a chute for discharging the material at the end of the last named conveyor, means for driving each of said conveyors, engageable means on said trolley frame and on said track for moving said conveyor carrying trolley frame along said track, a control shaft, hand controlled means mounted on said shaft for engaging and disengaging the aforesaid engageable means on said trolley frame and said track and further means mounted on said shaft for raising and lowering said elevating conveyor, said means including a hoisting means and a hand operated clutch mechanism and brake mechanism for connecting said hoisting means with the driving means.

2,529,955
MOUNTING OF GAS TURBINE ENGINES IN AIRCRAFT
Frederick William Walton Morley, Aston-on-Trent, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application February 2, 1948, Serial No. 5,703
In Great Britain February 11, 1947
8 Claims. (Cl. 248—5)

1. A mounting for a gas-turbine-engine permitting rotation of the engine relative to an air-

craft structure in the plane of the mounting, including a link structure comprising a plurality of cranked levers circumferentially disposed around and pivoted on the engine whereof one arm of each lever is pivotally connected to the aircraft structure and the other arm of each lever



is linked to the corresponding arm of another of said levers by a plurality of pivotally connected rods which at their point of connection are joined to the engine by a link pivoted on the engine.

2,529,956

METHOD FOR MAKING SILICON ESTER RESINS

James Robertson Myles and Neil Hunter Ray, Northwich, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application August 6, 1946, Serial No. 688,717. In Great Britain November 29, 1944

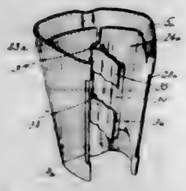
Section 1, Public Law 690, August 8, 1946
Patent expires November 29, 1964
4 Claims. (Cl. 260—2)

1. The method of preparing an organosiloxane polymer which comprises admixing substantially anhydrous tertiary butyl alcohol with a hydrolyzable chlorosilicic ester of the formula $(RO)_nSiCl_{4-n}$, wherein R is a monovalent radical from the group consisting of secondary alkyl and cycloalkyl and n is an integer from 1 to 3 inclusive, reacting the above two compounds with the application of heat, and separating the resulting organo-siloxane polymer.

2,529,957

TIE KNOT FORMER

Victor M. Newman, New York, N. Y.
Application December 3, 1946, Serial No. 713,624
8 Claims. (Cl. 2—153)



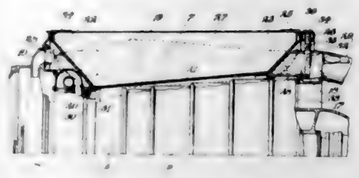
4. A necktie tying form comprising an arcuate hollow structure having a longitudinal rearward opening extending from the top edge to the bottom edge thereof, means on said structure to engage the ends of a tie length portion defining a knot formation whereby said tie length portion may be folded around said structure to produce such formation, spring-operated clamping means within the hollow of said structure and accessible through said rearward opening thereof for receiving and engaging an opposite length of said necktie, said clamping means comprising crossed-over members which are normally in contact so as to grip said opposite length of said necktie, and means to separate said crossed-over members for releasing said opposite length.

2,529,958

MEANS FOR SUPPORTING GAS-TURBINE POWER PLANTS

Frank Morgan Owner and Alec George Henstridge, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application November 13, 1946, Serial No. 709,522
In Great Britain October 9, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 9, 1965
3 Claims. (Cl. 60—41)



2. The combination with a gas-turbine engine comprising a compressor assembly, an axial-flow compressor constituting part of said assembly, combustion equipment to receive air from the compressor assembly and in which fuel is burnt and a turbine to drive the compressor assembly, said turbine which is driven by the hot gases from the combustion equipment, being supported from one end of the compressor assembly with the combustion equipment supported therebetween, of a frusto-conical member having outwardly-flared end pieces of frusto-conical form, a mounting ring secured to one end piece, means fixing one end piece to the compressor assembly, a connection between the mounting ring and the compressor assembly said connection allowing of relative radial and axial movements between the assembly and the frusto-conical member and a cantilever structure secured to said mounting ring to support the gas turbine engine as a unit.

2,529,959

PROCESS FOR QUICK FREEZING

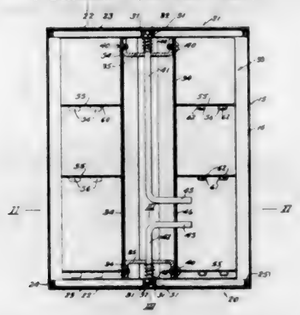
John Lomholdt-Pedersen, Gentofte, Denmark
No Drawing. Application August 1, 1946, Serial No. 687,711. In Denmark January 31, 1945
5 Claims. (Cl. 62—173)

1. The process for the quick freezing of nutrients and foodstuffs, or similar food products containing aqueous liquids, which comprises: quickly freezing the food product to be frozen by subjecting said food product to a neutral, cold freezing liquid so that said food product is frozen throughout, all juice therein being thoroughly frozen, and the core of said food product is at a temperature below 0° C.; and then subjecting said completely frozen food product to further cooling below 0° C. by subjecting it to the cooling action of a current of a cold gas, thereby completing said freezing process.

2,529,960

CABINET HAVING A ROTATABLY MOUNTED SHELF UNIT

Emile J. Pelletier, Clarence, N. Y.
Application June 11, 1946, Serial No. 675,909
7 Claims. (Cl. 312—157)

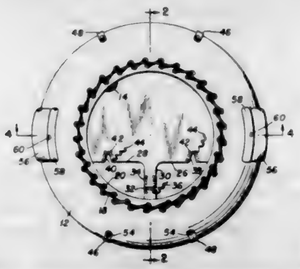


1. A cabinet comprising an outer casing having a top and a bottom, an axially expansible pivot member rotatably supported in suitable bearings carried by said top and said bottom, said top and said bottom each being formed with a guideway extending from the perimeter thereof toward and terminating at the bearing carried thereby for guiding the ends of said pivot member into registering positions with said bearings, means for detaching said pivot member ends from said bearings, and shelf means supported by said pivot member.

2,529,961

FLOAT

Robert A. Phillips, Flint, Mich., assignor of one-half to Silas T. Faust, Luzerne, Mich.
Application May 23, 1947, Serial No. 750,023
1 Claim. (Cl. 9—17)

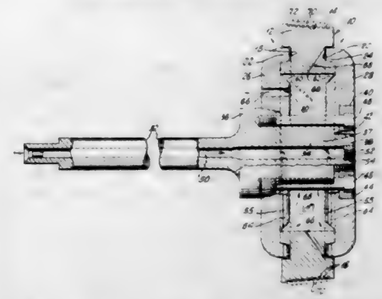


A float comprising an endless pneumatic tube, an endless tubular cover for said tube, a seat secured to the lower inner periphery of the cover, and shoulder straps terminally secured to said cover, said cover being flexible and divided on a line extending along the upper inner periphery of said cover, and lacing to fasten said cover on said tube, said seat being cut away at one side to accommodate the legs of a user of the float, and means to change the effective length of the edge portion of the cut-away portion comprising a V-shaped notched portion in said edge portion, eyelets in said notched portion and a lace extending through said eyelets and tied to partially close the notch in said notched portion, a tongue portion extending from a central part of said edge portion to the adjacent portion of the cover, said tongue being transversely divided into two portions and having eyelets with a lace extending through said eyelets in the two portions and tied to control the effective length of the tongue and thus to positionally adjust the edge of the cut-away portion of said seat relative to said cover.

2,529,962

METHOD AND APPARATUS FOR PRODUCING MINERAL WOOL

Edward R. Powell, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 17, 1947, Serial No. 748,863
12 Claims. (Cl. 18—2.6)

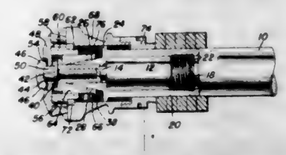


1. In a rotor construction, a tire having annular grooves in the side walls thereof, end plates having flanges extending into the annular grooves and defining with the tire a hollow interior section, a bored shaft supporting said rotor for rotation, and ducts leading from the bore to the hollow interior section adjacent the tire, whereby a cooling liquid may be introduced through said bore and conducted directly to said tire.

2,529,963

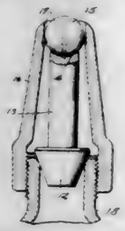
HOLDER FOR TRIMMING TOOLS

George Prodromos, Winston-Salem, N. C.
Application December 26, 1947, Serial No. 793,792
6 Claims. (Cl. 12—88)



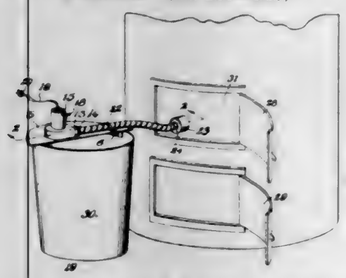
1. In a rotary cutting tool an elongated shaft mounted to rotate about its longitudinal axis, a sleeve encircling the shaft and threadedly engaged therewith adjacent one end thereof, a hollow conical projection on the sleeve, said projection extending axially from the sleeve, at the end thereof remote from the shaft, a spindle carried by the shaft and extending axially therefrom through the conical projection on the sleeve, an expansible collar mounted on the conical projection for entering the bore in a cutter and supporting the cutter on the shaft and a cutter guard carried by the spindle and detachably connected thereto at the end thereof remote from the shaft for holding the cutter against endwise movement when the sleeve is rotated about the shaft to advance the conical projection toward the cutter and expand the collar.

2,529,964
COMBINED BOTTLE TOP AND APPLICATOR
Walter Raab, Albany, N. Y.
Application March 17, 1949, Serial No. 81,945
1 Claim. (Cl. 15—132.7)



A combined container closure and applicator, comprising a body portion having a threaded end positioned over the threaded discharge end of a container, and a stopper disposed within the body portion, said stopper adapted to move into the discharge end of the container closing the container, a stem rising from the stopper and having a recessed upper end, and a ball movable in the recessed end of the stopper, said body portion having grooves disposed opposite to the ball, portions of the body portion engaging over the ball holding the ball on the stem, said ball projecting beyond the end of the body portion providing an applicator for material passing through the body portion, and said stopper being movable to close the discharge end of the container by pressure directed to the ball.

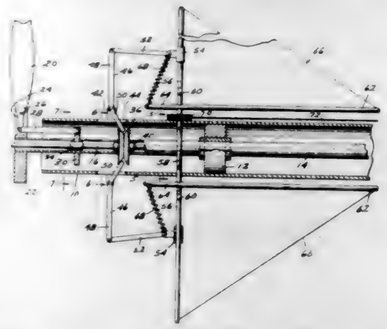
2,529,965
DUST ELIMINATOR FOR ASH CANS
Cecil V. Rentz, Niles, Ohio
Application August 8, 1946, Serial No. 689,085
2 Claims. (Cl. 126—242)



1. Means for exhausting dust from an ash receptacle to a furnace comprising a receptacle open at one end, a plate closing a portion of the open end of said receptacle, said plate provided with an air vent, a valve pivoted to said plate for controlling the flow of air through the air vent, an exhaust conduit communicating with the vent and adapted to extend into a furnace, a fan housed on said plate and including a propeller for directing the air from said receptacle to said conduit, and means for diffusing a flow of air leaving said conduit.

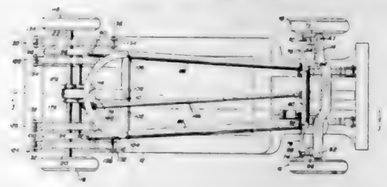
2,529,966
PROPELLING ROD FOR PARACHUTIST
Luis Alberto Villafuerte Rozas, Cuzco, Peru
Application August 15, 1946, Serial No. 690,776
3 Claims. (Cl. 244—138)

1. A device of the character described, comprising a tubular body, a tubular axle mounted in said body, propelling means mounted on the end of said tubular axle, a second axle mounted for sliding movement in said tubular axle, links connected to the inner ends of said propelling means, means on said second axle connected to the links on the inner ends of said propelling means for placing said propelling means in op-



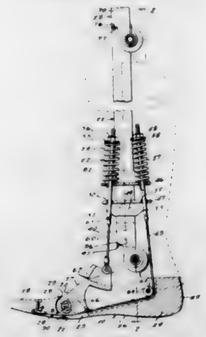
erative and inoperative positions, means for imparting motion to said second axle and a spring wound manually operated winding bobbin on said tubular body for imparting rotating motion to said propelling means, and the means for imparting motion to said second axle being located exteriorly of, but secured to said body.

2,529,967
MOTOR VEHICLE STEERING APPARATUS
Peter L. Roxwood, Passaic, N. J.
Application March 29, 1948, Serial No. 17,605
5 Claims. (Cl. 180—6.32)



1. A steering and running mechanism for a four wheel motor vehicle comprising a frame, a pair of steerable wheels carried by said frame, a steering column mounted on said frame, a depending bracket arm actuated by said column, a steering linkage connected between said arm and said wheels, a pair of longitudinal actuating arms pivoted to said steering linkage and responsive to movement thereof, a rear wheel assembly carried by said frame including a pair of axles having wheels journaled on their extending ends, an intermediate idler shaft interposed between said axles, a rigid shaft transversely carried by the frame in spaced proximity to the idler shaft, a sleeve slidably positioned on said idler shaft, oppositely extending prongs and grooves on said sleeve, complementary engaging elements carried by said axles, means responsive to the longitudinal movement of the actuating arms for slidably moving said idler shaft sleeve on the shaft, a gear carried by said sleeve, a driving gear on said rigid shaft in constant engagement with the sleeve gear, bevel gears in engagement with said driving gear, a drive shaft connected to one of the bevel gears.

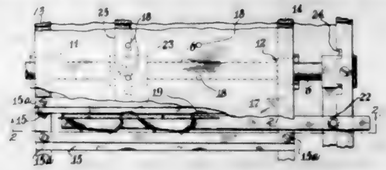
2,529,968
MECHANISM FOR ARTIFICIAL LEGS
Hansel Sartin, Tujunga, Calif.
Application June 15, 1948, Serial No. 33,192
4 Claims. (Cl. 3—6)



1. Mechanism for an artificial leg comprising a two-part foot piece, means hingedly connecting the two parts of said foot piece together for relative movement about a substantially transverse axis, a pair of spaced-apart strut bars upstanding from the rear part of said two-part foot piece, means connecting the lower ends of said strut bars to said foot piece for limited pivotal movement about an axis substantially transverse to said foot piece, and spring means carried by said strut bars and operatively connected to said foot piece to resiliently control movement of said foot piece relative to said strut bars and movement of the two parts of said foot piece relative to each other, said means pivotally connecting said two parts of said foot piece comprising a partly-cylindrical, transversely-extending protrusion on the front end of the rear part of said foot piece rotatably received in a partly-cylindrical, transversely-extending socket in the rearward end of the toe part of said foot piece, a pair of transversely-extending shoulders on said rear part disposed one in the upper and one in the lower surface of the latter at the upper and lower edges of said protrusion, a pair of transversely-extending shoulders on said toe part disposed one at the upper and one at the lower edge of said socket and cooperating with said rear-part shoulders to limit movement of said toe part relative to said rear part in both directions, a pair of spaced-apart, substantially parallel hinge tongues secured in said toe part and having apertured ends extending into arm-receiving slots in said rear part, and a pivot pin extending transversely through said rear part and said hinge arms pivotally inter-connecting said foot-piece parts.

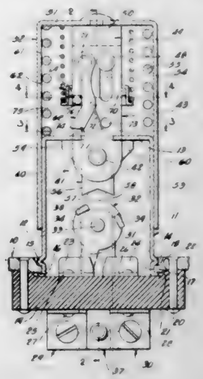
2,529,969
SHUTTLE-HOLDING AND MOUNTING MECHANISM FOR SEWING AND QUILTING MACHINES
Kurt Schlegel, New York, N. Y.
Application May 29, 1946, Serial No. 673,133
6 Claims. (Cl. 112—196)

1. A shuttle-holding and mounting mechanism for sewing and quilting machines comprising, the combination with a slidable support for a shuttle-drive-bar, a shuttle-drive bar mounted on said support, a race-partition arranged adjacent to said drive-bar and a shuttle having a flat surface facing and reciprocable along said race-partition, of a shuttle-mounting cage member mounted on said shuttle-drive-bar and provided with a shuttle seat having a bottom edge provided with a shuttle supporting portion on which the shuttle is adapted to rest and a top portion functioning as a guide bar adapted to prevent excessive tilting movement of the shuttle and extending above the upper surface of the shuttle in substantially parallel relationship to the flat partition-facing surface there-



of, and means connected with said cage member and adapted to engage a portion of the shuttle and to retain said shuttle in alignment with said race-partition, whereby the entire shuttle is loosely supported and held against excessive lifting and tilting movements during reciprocation and passage thereof through the needle thread loops.

2,529,970
ELECTRIC SWITCH
William Schmid, Bronson, Mich.
Application July 17, 1945, Serial No. 605,483
8 Claims. (Cl. 200—70)



1. An electric switch, comprising: a casing having an end wall, relatively stationary contact means disposed in said casing; cooperating oscillatable contact means disposed in said casing and constructed and arranged for movement from a first circuit closing position to a second circuit closing position; actuating means for said relatively movable contact means; a first stop and a catch pivotally connected to said actuating means for movement relative to the stop, a first spring carried by the catch and normally engaging the stop to maintain the catch in a position for engagement with the end wall of the casing, a housing, operating means in the housing and constructed and arranged for movement relative to said actuating means, an abutment on said operating means; means including a second spring, constructed and arranged to bias said actuating means from an inactive position into an actuating position; means, including a third spring, constructed and arranged to bias said operating means into a normal position and said actuating means into an inactive position; and means so

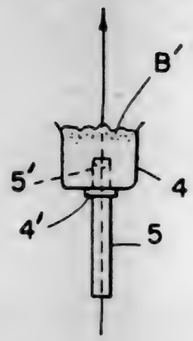
constructed and arranged that movement of said operating means relatively to said actuating means will cause the catch to engage the end wall of the casing to permit gradual compression of said second spring and also cause said abutment to pivot the catch and compress the first spring against said stop until the catch becomes disengaged from the end wall whereupon said actuating means will execute a snap movement to move said relatively movable contact means from said first position to said second position.

2,529,971

METHOD AND APPARATUS FOR THE PRODUCTION OF BEAD AND WIRE ASSEMBLIES

Joseph Schmidinger, Lake George, N. Y.

Application July 31, 1946, Serial No. 687,334
15 Claims. (Cl. 49—1)



1. The method of forming a bead on a wire which comprises the steps of assembling together a wire and a die having a charge forming recess, forming an offset portion in the wire, relatively moving the wire and the die to bring the offset portion of the wire in said recess, charging the recess with a charge of granular fusible material and then fusing the granular mass into a solid body about the offset portion of the wire.

9. In an apparatus for forming beads on a wire, the combination of means for successively forming offset anchoring portions in the wire at spaced intervals, means for assembling charges of granular fusible material about the offset anchoring portions and means for fusing the charges thus formed into solid bodies about the anchor portions of the wire.

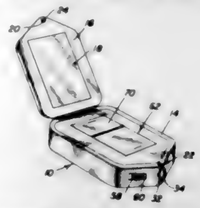
2,529,972

COMBINATION ILLUMINATED VANITY CASE AND UTILITY LIGHT

Charles F. Scott, Mina, Nev.

Application July 31, 1947, Serial No. 765,067
2 Claims. (Cl. 240—6.45)

1. A vanity case comprising an elongated casing having a forward tapered end, a cover hinged to said casing, means for locking said cover in a closed position to said casing, a mirror on the inner face of said cover, a pair of spaced parallel oppositely arranged battery cells removably carried within said casing at opposite sides thereof, resilient contact clips carried by said casing supporting said battery cells, a conductor between one end of each of said battery cells, the tapered end of said casing having an aperture in its apex, a sleeve positioned in the aperture and disposed longitudinally of said case, a circuit between said sleeve and one of said battery cells, an electric lamp carried by said sleeve, the head portion of said lamp being recessed in said casing, a contact plate secured to said casing disposed at the tapered end of the casing and having one end



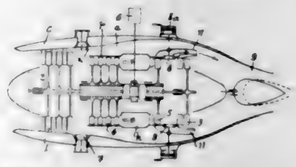
turned outwardly to engage the terminal of said lamp, a bell crank lever switch pivotally mounted on said plate, a contact finger carried by one of said battery cells engaging said switch for completing a circuit between said battery cells and said lamp, and a finger gripping knob carried by said switch for actuating said switch.

2,529,973

ARRANGEMENT FOR THE STARTING OF TWO SHAFT GAS TURBINE PROPELLING MEANS CHIEFLY ON BOARD OF AIRCRAFT

Marcel Henri Louis Sédille and Roger Jean Imbert, Paris, France, assignors to Societe Rateau (Société Anonyme), Paris, France, a company of France, and René Anxionnaz, Paris, France

Application May 2, 1947, Serial No. 745,576
In France May 29, 1946
2 Claims. (Cl. 60—35.6)



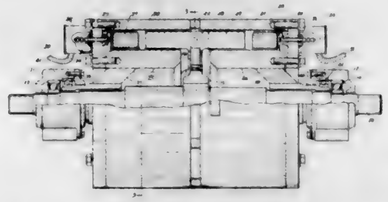
1. A turbo-propeller for an aircraft adapted for easy self starting, comprising a tunnel-like casing extending in the fore and aft direction of said aircraft and provided with a front air inlet aperture and with a rearwardly directed expansion nozzle, an annular partition in said casing beginning at a point spaced from the said front aperture and ending in advance of the expansion nozzle, said partition providing between it and the casing an annular air passage extending towards the said expansion nozzle, an air compressor including a low pressure unit sucking atmospheric air through said front aperture and a high pressure unit coaxially arranged with reference to the first unit but mechanically independent thereof, said low pressure unit being arranged in the said casing between said front aperture and the adjacent end of said partition so that a part of the air at low pressure delivered by said unit goes directly towards said expansion nozzle through said annular air passage, while the high pressure unit is arranged inside said partition, a combustion chamber inside said partition for generating hot gases from the air delivered by said high pressure unit, two gas turbine units arranged inside said partition, said units being fed in series with the hot gases issued from said chamber, said units being coaxially mounted and mechanically independent of each other, the high pressure gas turbine unit driving the high pressure air compressor unit and the low pressure gas turbine unit driving the low pressure air compressor unit, controllable means arranged transversely in said casing and around said casing in the interval between the delivering side of said low pressure compressor unit and the beginning of said partition for providing an auxiliary air inlet between the two compressor units, controllable means arranged transversely on said partition and around said partition for providing an auxiliary gas outlet between the two gas turbine units, and extraneous means including an auxiliary motor for starting the rotation of the group consisting of the high pressure air compressor unit and the high pressure gas turbine unit.

2,529,974

EDDY CURRENT DYNAMOMETER

Erasmus D. Smith, Shaker Heights, Ohio, assignor to The Electric Products Company, Cleveland, Ohio, a corporation of Ohio

Application January 21, 1948, Serial No. 3,645
2 Claims. (Cl. 172—285)



1. An eddy current dynamometer comprising a field structure made up of a pair of oppositely facing aligned outer frame members, spacers interposed between the inner ends of said outer frame members to provide spaces between them, a pair of oppositely facing cylindrical inner frame members disposed within said outer frame members and cooperating therewith to provide a pair of axially spaced aligned annular air gaps, end members for securing said inner and outer frame members together, a rotor within said field structure comprising a shaft, bearings adjacent the ends of said field structure for supporting said shaft, a hub on said shaft disposed centrally of said field structure, a plurality of axially extending circumferentially spaced rotor bars supported by said hub and having end portions disposed in said air gaps, and means for supporting said field structure concentrically of said shaft, said supporting means providing openings at the ends of said field structure between said shaft and said inner frame members whereby rotation of the rotor will draw cooling air into the interior of said field structure through said openings and discharge it through the spaces between the ends of said outer frame members.

2,529,975

METHOD OF MAKING COLOR PRINTS FROM COLOR TRANSPARENCIES

Lawrence W. Smith, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application March 11, 1948, Serial No. 14,334
12 Claims. (Cl. 95—2)

1. The method of printing a multi-color transparency containing a negative color image onto a photographic printing material whose sensitivty lies in three different regions of the spectrum, which comprises uniformly illuminating said transparency with light which contains energy in said three regions of the spectrum, introducing into the beam of light transmitted by said transparency a given quantity of diluting light containing energy in said three regions of the spectrum and having a color composition which would cause said printing material to reproduce substantially as gray if exposed solely thereto, integrating the light transmitted through the transparency and the diluting light introduced therein, determining the hue and

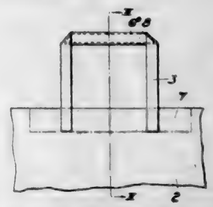
amount by which said integrated light departs from light which will print gray on said printing material, adjusting the color of said light being integrated until the integrated light has the same printing characteristics for said printing material as light which will print gray on said printing material, eliminating the diluting light from the beam transmitted by the transparency, and then focusing and printing said transparency onto the printing material with the transmitted beam as so adjusted.

2,529,976

METHOD FOR MANUFACTURING HANDLES FOR CARRYING BAGS AND THE LIKE

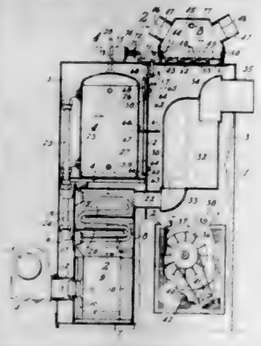
Oscar Mauritz Strandberg, Enskede, Sweden

Application August 20, 1946, Serial No. 691,752
In Sweden August 24, 1945
3 Claims. (Cl. 93—1)



1. A method for manufacturing handles for bags comprising folding at least one strip of suitable material a suitable number of times from both longitudinal edges towards the middle of the strip, equally broad parts being folded in from each side, folding the folded parts thus obtained against each other, cutting off the strip, which all over has the same cross sectional area without recesses, in lengths suitable for the handle, slitting the end parts open between the folded parts of the strip, bending the strip into U-shape, after which the flaps thus obtained are attached to the respective bag sides, the intermediate portion thereof serving as a grip for the hand.

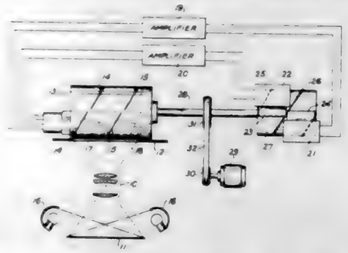
2,529,977
WARM AIR AND HOT-WATER HEATING APPARATUS
Cecil A. P. Thomas, West Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application March 29, 1949, Serial No. 84,197
6 Claims. (Cl. 126—101)



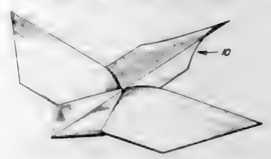
1. Warm-air space-heating and hot-water heating apparatus, comprising, a casing having therein a chamber with an inlet for air to be heated and an outlet for heated air to flow to the space to be heated, valve means for opening or closing said outlet, a second casing forming a combustion chamber having an inlet and an outlet; gas-conducting passage means connected at one end to the second-named outlet, extending through the first-named chamber and terminating outside the latter with an outlet; said passage means including a radiator located in the first-named chamber for heating the air in such chamber, a storage tank for hot water; piping connected to said tank, forming with the tank a circulating system and located in part in said passage means; a burner connected to the inlet of and firing into said combustion chamber, a first control for the burner responsive to the temperature of the water in said tank for starting the burner when the temperature of such water falls to one predetermined value and for stopping the burner when the temperature of such water rises to a second predetermined value; a second control for the burner adapted to respond to the temperature of the air in the space to be heated and operable independently of the first-named control to start the burner when the temperature in said space falls to one predetermined value, to continue the operation of the burner after the first control opens in response to the rise in temperature of the water in said tank, and to stop the burner when the temperature in said space rises to another predetermined value; and actuating means for said valve means responsive to the temperature of the water in said tank for opening and closing the valve means when the temperature of such water is respectively above or below a predetermined value higher than the second-named predetermined value.

2,529,978
FACSIMILE COPYING APPARATUS
Russell G. Thompson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 22, 1948, Serial No. 22,683
7 Claims. (Cl. 178—6.6)

1. In facsimile apparatus, scanning means for simultaneously deriving separate signals corresponding to the optical values of sequential segments of a line traversing a picture to be reproduced, a recording device including a plurality of independently and simultaneously actuatable printing bars having their printing edges in alignment, individual means responsive, respectively, to the independent signals for actuating said printing bars, and a scanner for cooperating with all of said printing bars simultaneously, whereby separate portions of the picture to be reproduced will simultaneously be synthesized on a single record sheet moving between said printer bars and the scanner.



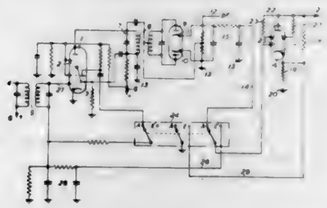
2,529,979
SHEET MATERIAL TOY AIRCRAFT
Robert B. Turnbull, Holly, Mich., assignor of one-third to Eileen M. Turnbull and one-third to John H. Bush, both of Flint, Mich.
Application December 6, 1948, Serial No. 63,638
1 Claim. (Cl. 46—79)



In a toy aircraft, a first and a second flat blank of material, said first blank being substantially square, creases extending diagonally of the blank and said blank being folded along said creases to form a triangular shaped blank of four thicknesses of material, and said triangular shaped blank being formed with creases in two of the thicknesses of material to form a square shaped member juxtaposed on the remaining two thicknesses of triangular blank, said remaining two thicknesses forming wings for the aircraft, and said square shaped member having tucks therein to form a nose section, the said remaining two thicknesses having a fold extending thereacross, a portion of the nose section projecting forwardly thereof, and said second blank having converging front edges disposed between said remaining two thicknesses to form a tail section and fuselage.

2,529,980
INDICATING TUNING DEVICE, PARTICULARLY FOR FREQUENCY-MODULATION RECEIVERS
André Violet, Boulogne-Billancourt, France
Application June 23, 1949, Serial No. 100,922
In France April 30, 1948
7 Claims. (Cl. 250—40)

1. In combination with a receiver for frequency modulated waves provided with a balanced tunable frequency discriminator, a local source of low frequency waves, means for amplitude modulating the waves received by said receiver with said low frequency waves, means for applying said modulated waves through said discriminator,



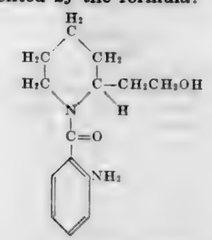
and an indicator responsive to the amplitude of the low frequency modulated direct current component in the output of said discriminator for indicating the tuning of said discriminator.

2,529,981
BLEACHING SILVER IMAGES
Paul W. Vittum, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 28, 1945, Serial No. 631,500
4 Claims. (Cl. 95—88)

1. The method of removing only the silver images from a photographic layer containing silver and color developed dye images of the class consisting of azomethine, indaniline and indophenol dyes, which comprises treating said layer containing said silver and dye images with a strong acid solution of a quinone having a pH of 1.5 to 3.5, said solution containing an alkali-metal halide selected from the group consisting of chlorides and bromides, but being free of organic solvent, followed by fixing.

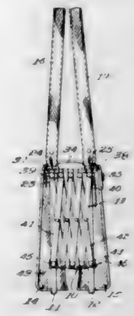
2,529,982
1-o-AMINOBENZOYL-2-β-HYDROXYETHYL-PIPERIDINE
Lewis A. Walter, East Orange, N. J., assignor to Maltbie Laboratories, Inc., a corporation of New Jersey
No Drawing. Application October 15, 1949, Serial No. 121,629
1 Claim. (Cl. 260—294)

1-o-aminobenzoyl - 2 - β - hydroxyethylpiperidine represented by the formula:



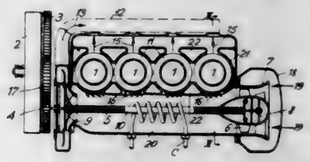
2,529,983
BATHTUB HANDBAG
Edna V. White, Wheelersburg, Ohio
Application June 10, 1949, Serial No. 98,336
2 Claims. (Cl. 4—177)

1. A collapsible combination bath tub and hand bag comprising spaced vertically disposed end frames, a fabric bath tub suspended between the said end frames, lazy tongs positioned between and connecting the said end support frames, shoulder straps extended upwardly from the said frames, pouches carried on the outer surface of the said end support frames, a flap extended from



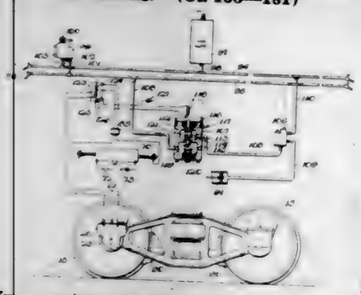
the outer wall of one of the pouches over the pouches, tub and frames with the device in the collapsed position, and means securing the edge of the said flap to the outer wall of the other pouch for retaining the said parts in the said collapsed position.

2,529,984
AIR-COOLED SUPERCHARGED COMBUSTION ENGINE
Hans Wiederkehr, Zurich, and René Feiss, Winterthur, Switzerland, assignors to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application November 13, 1945, Serial No. 628,278
In Switzerland November 13, 1944
1 Claim. (Cl. 123—41.65)



In an air-cooled supercharged internal combustion engine comprising, a casing, a plurality of cylinders in line, a cowling secured to the casing and enclosing parts of the engine cylinders, a flywheel outside the casing, at one end of the line of cylinders, a first blower for supplying both cooling air and combustion air, and a second blower for compressing the combustion air, the impellers of both blowers being fixed to a common shaft which is journaled in the engine casing and driven by the engine, and the air supplied by the first blower being conducted in two parallel branches, one of the latter supplying engine cooling air and the other engine combustion air, the improvement comprising disposing the second blower immediately adjacent that engine cylinder which is next to the flywheel, and forming the conduit which conducts the air from the first blower along the said shaft to the second blower as part of the engine cowling, said cowling having baffles which separate said conduit from the engine cylinders, so that the air passing to the second blower through said conduit does not contact any of the cylinder walls.

2,529,985
DECELERATION BRAKE CONTROL
Allison R. Williams, Washington, D. C.
Application May 9, 1949, Serial No. 92,170
21 Claims. (Cl. 188—181)



1. In a system of the character described, in combination with a rotary member and mechanism for controlling the speed of rotation thereof, means for producing a source of energy proportional to the normal angular deceleration of said member, means for producing a source of energy proportional to the actual deceleration of said member, means for opposing said sources of energy to obtain a force which is proportional to the difference therebetween, and means operable by said force and acting to actuate said mechanism as soon as actual angular deceleration exceeds the normal angular deceleration.

2,529,986
WINDOW REGULATOR WITH VARIABLE COUNTERBALANCE
Paul Baker Witmer, Lancaster, Pa.
Application June 12, 1945, Serial No. 599,072
8 Claims. (Cl. 268—122)

1. An operating device for a window, comprising a first gear and a second gear, a lever means connected with said first gear and carrying the window, an arm on said second gear, a counterbalance weight slidably mounted on the arm, a third gear between said first and second gears adapted to rotate said first and second gears in the same direction, means for sliding said counterbalancing weight on said arm, whereby to change its effective leverage with reference to the leverage exerted by the weight of the window whereby the window is opened and closed, said means including a first rod, a rack on said rod and a segmental gear means eccentrically connected with the weight and meshing with said rack, a second rod, and a latching means adapted to engage one of said gears to lock the same against rotation, said latching means pivotally connected to said second rod.

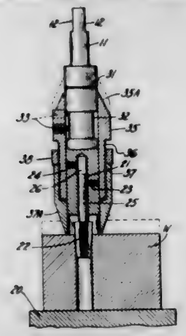
2,529,987
CARD INDEX TRAY AND BOTTOM STOP THEREFOR
Carl F. Wolters, New Canaan, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application May 20, 1943, Serial No. 487,744. Divided and this application December 27, 1946, Serial No. 718,762
1 Claim. (Cl. 129—16)

In a card index tray having side members formed with longitudinal grooves adjacent the bottom inner edges opening inwardly, a solid non-metallic bottom stop having a wedge-shape in vertical longitudinal cross section, a transverse channel formed in the central bottom portion, a pair of spaced finger apertures intersecting said channel in transversely extending relation through said stop, a pair of slide members extending in end-to-end relation and slidably retained in said transverse channel having finger pieces formed therein normally located in said apertures for manual engagement to slide said members toward each other, said stop having a recess in the bottom thereof communicating with said transverse channel and a resilient member seated in said recess with opposite ends secured one to each slide member for normally projecting said slide members outwardly in opposite directions to engage the outer ends in the grooves in said side members for retaining said bottom stop in said tray, said resilient member retaining said slide members is assembled relation in said stop against removal and limiting outward sliding movement by engaging said stop at the sides of said recess.

2,529,988
TOOL
Edward A. Zempel, Milwaukee, Wis., assignor to Walter T. Meinhardt, Cook County, Ill.
Application June 14, 1946, Serial No. 676,670
1 Claim. (Cl. 10—147)

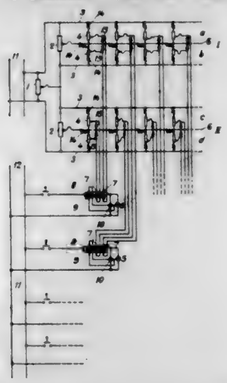
A tool comprising adjustably constantly secured together elongated sleeve members which while connected are movable one relative to the other, and having a common smooth axial bore therethrough of uniform diameter, an elongated tool holder disposed in said bore and having an end portion thereof projecting therebeyond, the tool holder having a snug sliding rotatable and reciprocatory fit in the said bore, the tool holder inwardly of the said projecting end and concentric with respect to one of the sleeve members having formed thereon a circumferential groove of less cross-sectional diameter than the remainder thereof and thus providing inner and outer spaced circular shoulders, the last mentioned sleeve

member having an opening in its wall opposite the said circumferential groove in the tool holder, a pin in said opening and having its inner end disposed in the said groove, the adjustable connection between the said sleeves allowing for different adjustments, whereby the outward stroke of the tool holder and the tool element that is



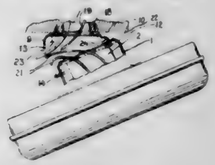
carried thereby, and which tool element projects beyond the end of the said other sleeve, is regulated, this said other sleeve having an extreme free end portion that is adapted to engage the work in spaced relation to the said tool, and the said pin limiting the inward or outward movement of the tool holder and tool element relative to both of the said sleeves.

2,529,989
LIGHTING CONTROL
Algot Arvidsson, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application August 9, 1949, Serial No. 109,286
In Sweden September 23, 1948
3 Claims. (Cl. 315—291)



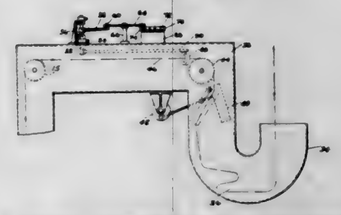
1. A stage lighting system, comprising a control current source, two main control circuits, a dimming means connected in parallel to said source for alternately supplying control voltage to either of said main control circuits, scene circuits for a plurality of lighting scenes capable of being reset, fading means joining said lighting scenes in pairs to said main control circuits for alternately supplying control voltage to either of said scene circuits, transductors, selecting means for adjusting the current to be applied to the direct current control windings of said transductors, and means connecting the alternating current windings of said transductors to lamps to be controlled, and each transductor for at least one lamp being provided with as many direct current control windings as there are circuits coupled to said main control circuits.

2,529,990
SUPPORT FOR LIGHTING FIXTURES EMPLOYING ELONGATED TUBULAR LAMPS
Charles Edward Barker, Essex, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application November 20, 1945, Serial No. 629,756
5 Claims. (Cl. 240—51.11)



1. In combination with a fixture for tubular lamps, means for securing the fixture to a support comprising a generally flat attaching plate means for securing the plate to said support, an elongated temporary supporting panel extending down from said plate and having supporting trunnions parallel thereto and extending horizontally from the bottom edge of its ends, a recess in the top wall of the fixture chassis having a portion thereof long enough to receive said panel and trunnions and a portion long enough to receive the panel only whereby when the fixture is lifted to insert the panel and trunnions in said recess and then moved laterally the fixture will hang in temporary spaced relation to the plate upon the trunnions of said panel, means to lock the fixture in operating position with a portion of the top wall of the fixture chassis along an edge of said recess overlying said plate and including means on the plate remote from said panel to lock the fixture to the plate.

2,529,991
PLAITER
Harold H. Belcher, Orange, Mass., assignor to Rodney Hunt Machine Company, a corporation of Massachusetts
Application June 18, 1947, Serial No. 755,276
4 Claims. (Cl. 68—5)



4. A plaiter comprising wall means forming a storage chamber portion and a steam chamber portion connected to and in communication with the upper end of the storage chamber portion, said steam chamber portion having an opening remote from said storage chamber portion to permit the entry of cloth, a feed roll in said steam chamber portion above said storage chamber

portion for moving cloth through said steam chamber portion into said storage chamber portion, a shaft extending through a wall of said steam chamber portion substantially perpendicular to the said feed roll, an arm secured at one end to said shaft within said steam chamber portion, cloth guiding means adjacent the other end of said arm between said opening and said feed roll, and actuating means outside said steam chamber portion operatively connected to said shaft for oscillating said shaft.

2,529,992

PRODUCTION OF N'-p-CHLOROPHENYL-N⁵-ISOPROPYL BIGUANIDE

Leonce Edouard Bessot, Paris, and Pierre Garet, Choisy-le-Roi, France, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate

No Drawing. Application February 14, 1949, Serial No. 76,423. In France February 20, 1948
6 Claims. (Cl. 260—565)

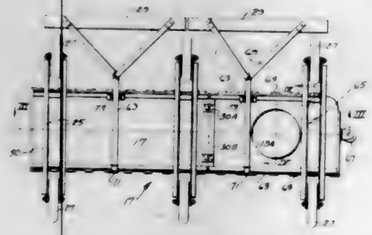
1. Process for the preparation of N¹-p-chlorophenyl-N⁵-isopropyl biguanide which comprises heating the p-chlorophenyl cyanamide salt of isopropyl guanidine at a temperature below the decomposition temperature of the said biguanide.

2,529,993

SUCTION STREET SWEEPER

Boykin B. Boyce and William B. Powell, Memphis, Tenn.

Application July 16, 1946, Serial No. 683,861
4 Claims. (Cl. 15—371)



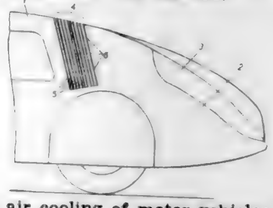
1. In a pick up street sweeper which includes a suction fan; a sweeper unit, including a collection box, and wheeled carriers supporting said box independently of other parts of said sweeper; brush means forward of said box, and a suction pipe connecting said box and said fan; a said collection box which includes a top apertured for connection to said suction pipe and otherwise imperforate; flexible curtains, secured respectively along the front and rear edges of said top and weighted at their lower edges; and end walls respectively depending from the opposite side edges of said top, said curtains and said end walls being supported by said carriers in street surface adjacency but substantially free from contact therewith, the front said curtain and the right hand said end wall respectively terminating substantial amounts short of the front right hand corner of said box to establish an entrance for trash into said box, said top aperture being positioned adjacent the right hand side of said box, whereby brush displaced trash may freely enter said box through said entrance and is induced by said fan to enter, and brush loosened dust is drawn beneath said curtains and ends and both trash and dust are drawn into said fan.

2,529,994

AIR INLET STRUCTURE FOR REAR ENGINE COMPARTMENTS OF STREAMLINED VEHICLES

Rudolf Brežek, Prague-Smichov, Czechoslovakia, assignor to Tatra narodni podnik, Koprivnice, Czechoslovakia

Application February 27, 1948, Serial No. 11,783
In Germany October 27, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires October 27, 1962
2 Claims. (Cl. 180—54)



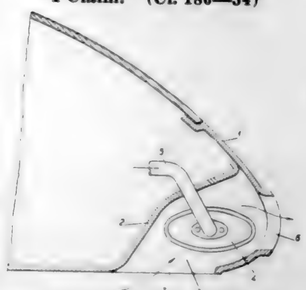
1. In the air cooling of motor vehicles having a streamline body with the engine at the rear, a rear engine compartment in said streamline body, a grid structure covering a slot extending transversely the entire width of the vehicle body above said engine compartment to admit cooling air thereinto, said grid structure comprising a plurality of parallel ribs extending lengthwise of the vehicle body and a plurality of parallel bars extending transversely of the vehicle body, said bars consisting of sheet metal strips secured to said rib, said strips being bent with their rear edges directed inwardly so as to reduce their resistance to the entrance of air through said slot and into said engine compartment.

2,529,995

ARRANGEMENT OF MUFFLERS AND VEHICLE BODY CHAMBERS THEREFOR

Rudolf Brežek, Prague-Smichov, Czechoslovakia, assignor to Tatra narodni podnik, Koprivnice, Czechoslovakia

Application February 27, 1948, Serial No. 11,785
In Czechoslovakia May 2, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 2, 1966
1 Claim. (Cl. 180—54)



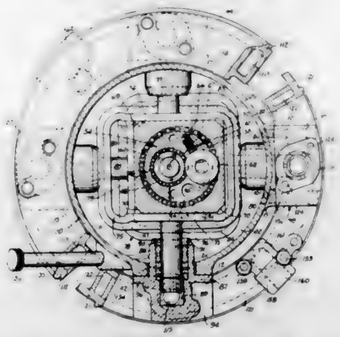
A housing arrangement for a muffler in motor vehicles having a streamlined body and a rear engine compartment, comprising a chamber wherein the muffler is adapted to lie transversely of the vehicle and a partition wall separating the muffler chamber at said rear end of the streamlined body from the engine compartment, said muffler chamber having an opening at the bottom in its forward portion and an opening at said rear end of the streamlined body, through which openings cooling air may enter and escape.

2,529,996

EPICYCLIC DRIVE

Lindsay H. Browne, Westport, Conn., assignor to American Brake Shoe Company, a corporation of Delaware

Application February 12, 1946, Serial No. 647,078
17 Claims. (Cl. 74—50)



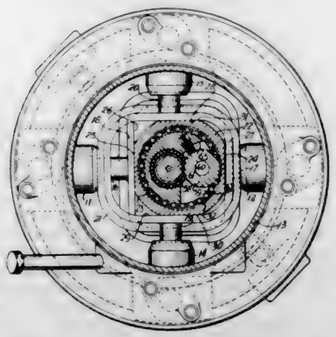
1. In an epicyclic drive, a rotatable shaft, an inner race on said shaft, a member adapted to be gyrated, said member including an inwardly facing outer race, a roller member between said races, a filler block between said races and having its outer surface parallel to said outer race and its inner surface parallel to said inner race, a cavity formed in said filler block to clear said roller, and spring loaded means carried on said filler block and urging said roller member into rolling engagement with said races.

2,529,997

EPICYCLIC DRIVE

Lindsay H. Browne, Westport, Conn., assignor to American Brake Shoe Company, a corporation of Delaware

Application December 7, 1946, Serial No. 714,777
16 Claims. (Cl. 74—86)



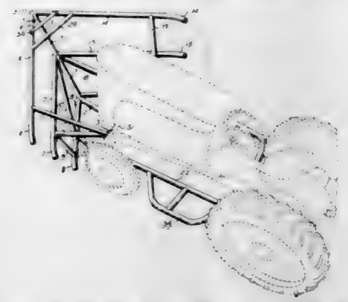
1. In an epicyclic drive, a rotatable shaft and means to drive the same, an inner race on said shaft, a member adapted to be moved on a gyratory path, said member including an inwardly facing outer race, a roller member between and engaging both said races, a filler block between said races and adapted to hold said races in eccentric relationship, said filler block having a portion thereof cut away to accommodate said roller member, a boss formed integral with said filler block and concentric with said shaft, and means cooperating with said boss for taking off rotary power therefrom.

2,529,998

BRUSH SPREADING ATTACHMENT FOR TRACTORS

John H. Q. Burke, Oklahoma City, Okla.

Application July 17, 1950, Serial No. 174,327
7 Claims. (Cl. 97—192)



6. An underbrush spreader attachment for tractors comprising a substantially V-shaped prow for disposition in front of a tractor, and extending from a point adjacent the ground to a point adjacent the top of the tractor, the apex portion of said prow being a single upwardly and forwardly inclined member forming the leading edge thereof, means for securing the prow to the tractor, and additional underbrush deflecting members carried by the securing means for disposition between the front and rear wheels of the tractor.

2,529,999

DIAPER

Laura A. Chambers, San Francisco, Calif.

Application January 16, 1950, Serial No. 138,879
3 Claims. (Cl. 128—295)

1. A diaper-like garment comprising an hourglass shaped blank folded upon itself to form a pant structure, a bag suspended from the bottom of said garment and an inverted fluid-retaining cup positioned in said bag.

2,530,000

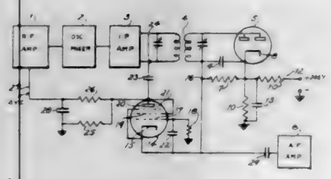
AUTOMATIC VOLUME CONTROL ARRANGEMENT

Luther W. Couillard, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application November 1, 1945, Serial No. 628,145
6 Claims. (Cl. 250—20)

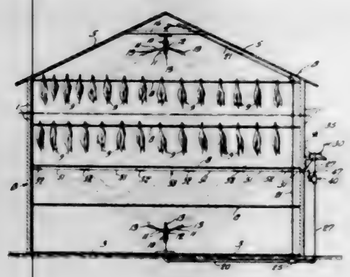
1. A volume control arrangement for carrier wave receiving systems, comprising a carrier

wave amplifier, a carrier wave rectifier having circuit connections to said amplifier for continuously rectifying both weak and strong carriers, a load circuit connected to said rectifier to develop therein demodulated audio frequency signal voltages, a single gain control amplifier tube of the grid-controlled type, means to apply the carrier before rectification to the plate of said gain control amplifier tube so that the operating plate potential thereof is derived solely from said carrier, circuit means connecting said



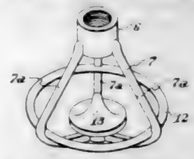
load circuit to the input of said gain control amplifier tube to correspondingly vary the plate current of said tube for both weak and strong carriers, a separate load circuit for said gain control amplifier tube for developing direct current voltages proportionate both to the level of the carrier before rectification and to the amplitudes of the demodulated signals from said rectifier, and means for applying said direct current voltages to a gain control element of said carrier wave amplifier.

2,530,001
FIRE EXTINGUISHER
Malcolm H. Cowan, Parkton, N. C.
Application August 2, 1948, Serial No. 41,961
3 Claims. (Cl. 169—9)



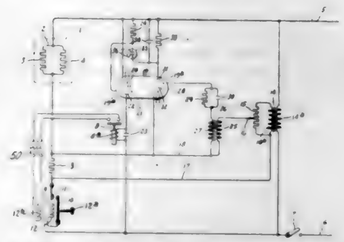
1. A fire extinguisher for a tobacco curing barn or other building, said fire extinguisher comprising a rotary sprinkler positioned in the lower area of said building adapted to provide a mist of fire extinguishing fluid directed upwardly and outwardly, a cooperating rotary sprinkler positioned in the upper area of said building adapted to provide a mist of fire extinguishing fluid directed downwardly and outwardly, means for automatically supplying fire extinguishing fluid to said rotary sprinklers comprising a pipe connected to a supply of fire extinguishing fluid, a normally closed valve associated with said pipe and fire detecting means in said building associated with said valve and providing for opening of said valve in the event of fire.

2,530,002
COOLING TOWER SPRAY
Joseph A. Coy, Tulsa, Okla.
Application October 28, 1948, Serial No. 57,104
1 Claim. (Cl. 299—130)



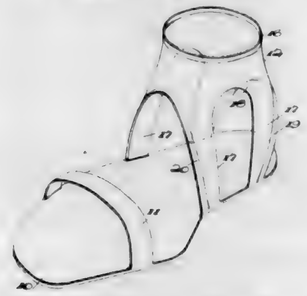
A diffusing and spraying device adapted to be supported below a discharge nozzle, said device comprising a downwardly extending spider below the nozzle, said spider being formed from spaced arms, an annular spraying ring round in cross section connecting said arms and having its axis on the axis of the nozzle, a diffusing cone carried by the spider at its lower end below the spraying ring on the axis of the nozzle having its apex upwardly disposed, said diffusing cone having its outer surface curving downwardly, outwardly and upwardly whereby fluid projected against the apex thereof from the nozzle will be diffused downwardly, outwardly and upwardly and into engagement with the inner side of the spraying ring.

2,530,003
ELECTRIC CONTROL DEVICE
George C. Crowley, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application February 21, 1947, Serial No. 730,173
4 Claims. (Cl. 219—20)



4. A control for an electric heating device having a heating winding with high temperature coefficient of resistance, an impedance in series with said winding whereby a change in the temperature of said winding produces a change in the resistance thereof, and, when energized, a consequent change in the voltage drop across said series impedance, a vacuum tube circuit having a normal current flow in a portion thereof and a control grid means biased by a predetermined change in said voltage drop to produce a change in said current flow, a high resistance device, relay means operated by said change in current for effectively connecting said high resistance device in series with said heating winding, and a thermal relay means actuated in response to current flow through said high resistance device after a predetermined time delay, actuation of said thermal relay means effectively removing said grid bias for re-establishing said normal current flow in said vacuum tube circuit and thereby operating said relay means for effectively disconnecting said high resistance device from said heating winding.

2,530,004
SANDAL WITH INTEGRAL RETAINING STRAPS
Joseph Di Guglielmo, Philadelphia, Pa.
Application June 9, 1948, Serial No. 31,977
1 Claim. (Cl. 36—11.5)



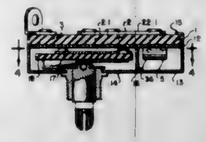
An integrally formed bathing sandal of rubber including a flat flexible sole provided near the toe portion thereof with a transverse toe loop and near the heel portion thereof with pairs of thin highly elastic straps rising from the side edges of the sole, the pairs of straps converging toward the sole and having their confronting edges spaced apart a substantial distance at their points of connection with the sole, the rearmost straps of said pairs of straps being adapted to engage over the nub of the heel of the foot and defining an opening adapted to receive the rear portion of the heel therethrough, a thin highly elastic anklet of substantial width connecting the upper ends of said straps and adapted to encircle and grip the leg above the ankle, the straps of each pair of straps having straight downwardly converging inner edges and the anklet being formed at each side at the upper ends of said edges with a gripping lip having a semi-circular lower edge extending between and merging with said straight edges to define a spatulate-shaped opening between the straps at each side of the sandal, said openings being of a height to receive the side nobs of the ankle bones therethrough and said lips being adapted to conform to the contour of the leg immediately above said nobs and to grip the leg for resisting downward slippage of the anklet on the leg, a thickened band reinforcing the rear edges of the rearmost straps to extend over the nub of the heel for resisting rearward thrust of the foot, and a thickened band reinforcing the forward edges of the foremost straps to extend over the instep of the foot for resisting forward thrust of the foot.

2,530,005
PRESSURE GAUGE
Daniel O. Druge, Oakland, Calif.
Application March 29, 1946, Serial No. 658,114
1 Claim. (Cl. 73—419)

A pressure gauge comprising a cylinder having an air inlet at one end, a piston in said cylinder, a coil spring extending between the opposite end of said cylinder and said piston tending to move said piston toward said inlet, an elongated pressure indicating element extending through said spring coaxial therewith and through the said opposite end of said cylinder and provided with spaced pressure indicating marks on a side thereof, an indicator carried on said opposite end of said cylinder and projecting outwardly of said opposite end cooperating with said element and marks for indicating the mark on said element to be read, said indicator being movable longitudinally of said element independently of said spring and piston for varying its position relative to said marks and locking means for releasably securing said indicator in adjusted position, said element including a cylindrical end portion ad-

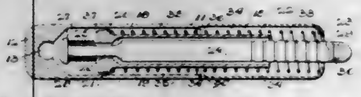
jacent said piston formed with a tapered end engageable with said piston, said element including said end portion being separable from said piston, and friction means in said cylinder for frictionally holding said element in extended position upon movement of said piston toward said inlet, said cylindrical end portion being only slightly less in diameter than the diameter of said spring.

2,530,006
ROTARY SWITCH CONSTRUCTION
Gilbert S. Ellithorpe, Chicago, Ill.
Application February 26, 1948, Serial No. 11,152
5 Claims. (Cl. 200—11)



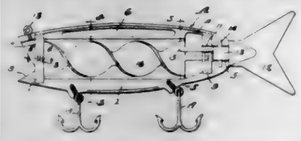
1. In an electric switch assembly comprising a base having a plurality of angularly spaced contacts on one face and cover means mounted on said base and enclosing said contacts, a switch mechanism comprising a shaft rotatably mounted in said cover means and projecting outwardly therefrom, the inner end of said shaft terminating adjacent the inner face of said cover, a floating disc-like dielectric carrier disposed within said cover means beyond the inner end of said shaft and facing said contacts, a contact plate mounted on said carrier and positioned to engage said contacts selectively upon rotation of said carrier, a driving means for said carrier mounted fast on the inner end of said shaft and having radially disposed angularly spaced axially projecting lugs in driving engagement with said carrier, said carrier being axially slidable on said lugs, and a resilient arm on said driving means bearing axially inward against said carrier to urge the same toward said contacts, said arm being disposed in an intermediate angular position relative to said lugs.

2,530,007
FISHING HOOK SNAPPER
Simon Euzent, Baltimore, Md.
Application May 6, 1949, Serial No. 91,801
6 Claims. (Cl. 43—15)



3. A fishing hook snapper comprising an elongated shell member, a sleeve member slidably disposed in said shell member, a plunger slidably disposed in said sleeve member, means yieldably urging said sleeve member forwardly relative to said shell member, means yieldably urging said plunger forwardly relative to said sleeve, said plunger having its rearward end protruding through the rearward end of said shell, said sleeve having one end thereof radially resilient, said resilient end having a forwardly facing shoulder, said shell having a rearwardly facing seat adapted to engage said shoulder when said sleeve is in a protracted position, said plunger having a rearward enlarged section adapted to hold said radially resilient end outward when in a given protracted position and thereby maintain said shoulder in engagement with said seat and a reduced section forward of said enlarged section, whereby when said plunger is protracted beyond the given position, it releases said resilient end and said shoulder becomes disengaged from said seat under the action of said yieldable means.

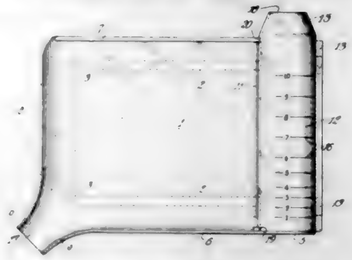
2,530,008
FISH LURE
Albert Fey, Detroit, Mich., assignor to Makall Corporation, Detroit, Mich., a corporation of Michigan
Application August 29, 1947, Serial No. 771,167
2 Claims. (Cl. 43—26.2)



1. A fish lure comprising an elongated hollow body formed to simulate live bait, the ends of the body being open whereby water passes through the body, a pivoted rudder-like tail piece mounted at the rear end of the body, a projection connected with the tail piece extending forwardly within the body, a helical rotatable strip disposed longitudinally within the body, one end thereof engaging the projection of the tail piece at intervals, moving the projection and tail piece in one direction as the helical strip moves therewith, and means for limiting movement of the tail piece in one direction.

2,530,009
TABLET COUNTING DEVICE
Mack B. Fields, Chicago, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application February 22, 1945, Serial No. 579,276
7 Claims. (Cl. 222—158)

1. A device of the class described, comprising a tray having a receptacle at one side thereof, said receptacle extending downwardly from the surface of said tray, a cover for said receptacle, said cover being hinged to said receptacle so as to be capable of being opened and closed, an end closure for one end of said receptacle, the other end thereof being open, and flanges extending upwardly from the side of said tray opposite to



the side having said receptacle and from one of the sides of the tray extending between said receptacle and said first-mentioned flange, said flanges being extended in cooperative relation from the tray to form a spout.

2,530,010
VAT DYESTUFFS
Walter Fioroni, Binningen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application August 28, 1945, Serial No. 613,227. In Switzerland September 25, 1944
1 Claim. (Cl. 260—274)

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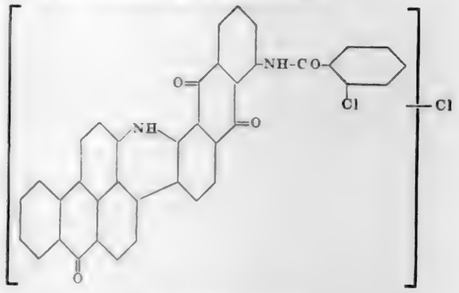
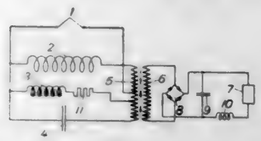
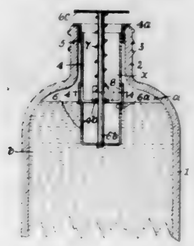


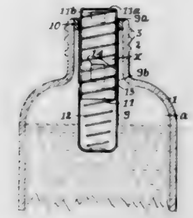
2,530,011
MEANS FOR PRODUCING A CONSTANT CURRENT
Harry Forssell, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Västerås, Sweden, a Swedish corporation
Application August 21, 1947, Serial No. 769,978
In Sweden February 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 1, 1963
4 Claims. (Cl. 323—6)



1. Means for deriving a substantially constant alternating current from a variable voltage comprising alternating current terminals, a transformer winding composed of a plurality of electromagnetically cooperating parts, a substantially inductive current path and a substantially capacitative current path connected in parallel to said terminals and each including one of said parts, and a third current path connected to said terminals and containing a reactor with an iron core in series with a resistor and another of said winding parts, said last winding part acting to oppose the ampereturns of the others of said winding parts.

2,530,012
DISPENSING ATTACHMENT FOR LIQUID CONTAINER NECK, HAVING A RECIPROCABLE MEASURING TRAP COMBINED WITH A DISPENSING VALVE
Erich Gronemeyer, Pompton Plains, and Samuel Cherba, Totowa, N. J.
Application August 2, 1945, Serial No. 608,417
6 Claims. (Cl. 222—356)



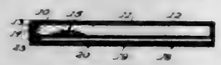


1. A measured quantity liquid dispenser adapted for use with a bottle having a liquid receiving main cavity and a neck communicating therewith, the neck having means for receiving and securing a cap thereover, the dispenser comprising a rigid walled receiver adapted to be positioned in the neck of the bottle so as not to interfere with application of the cap to the bottle neck, the receiver comprising a first member, such first member being an open tube of such length that the bottom end thereof will project a substantial distance into the neck of the bottle, such first member having a radial flange on its upper end, such flange being adapted to rest upon the upper edge of the bottle, the receiver being completed by a second member, the second member being an upwardly facing elongated cup-shaped member, one of said first and second members being slidably received within the other member in fluid tight relationship therewith, means constantly urging the first and second members into contracted relationship with each other, a stop means for limiting the upward travel of the second member, means comprising a stem connected to the second member and a cover disc attached to the top thereof selectively to close the top end of the first member, the parts being so related that when the second member is at the top of its travel the cover disc projects but a relatively small distance above the top of the first member, the first member having an opening in the wall theerof at a location which will be within the main cavity of the bottle but a substantial distance above the lower end of the second member, the second member having an imperforate portion of its upper wall covering such opening in the first member when the second member is in raised position, the top of the side wall of the second member being so located that when the cover disc attached to the second member is depressed to a level so that it substantially contacts the upper end of the first member the opening in the wall of the first member is uncovered by the wall of the second member to provide a passage through such opening into the receiver.

3. A measured quantity liquid dispenser adapted for use with a container having a liquid receiving main cavity and a neck at the top thereof communicating therewith, the neck having means for receiving and securing thereover a cap independent of the dispenser, the dispenser comprising a rigid walled receiver adapted to be positioned in the neck of the container so as not to interfere with the application of the cap to the container neck, and over the top of the dispenser, the receiver comprising a first member having side walls in the form of a tube, the bottom end of such side walls being adapted to project at least a substantial distance into the neck of the container, the receiver being completed by a second member having side walls in the form of a tube, the side walls of one of said members being slidably received within the side walls of the other of said members in fluid tight relationship therewith, means constantly urging one of said members in one direction with respect to the other, a stop means for limiting such relative travel of the two members, one of said members projecting a substantial distance below the other so that it will extend into the cavity of the container, said member having an imperforate cup-shaped lower end forming the lower end of the receiver, selectively operable closure means for the neck of the container attached to the relatively movable member and adapted to project a relatively small distance above the neck of the container when in open, inoperative, position, one of said members having a port in the side wall thereof at a location such that the port will be located within the main cavity of the container but a substantial distance above the lower cup-shaped end of the receiver, the side wall of the other member being so constructed and arranged as to cover and close the port in the side wall of the one member when the members are in one extreme position of travel with respect to each other, and means operatively connecting the selectively operable closure means for the neck of the container with the other member, which covers and closes the port in the side wall of the one member, the selectively operable closure means for the neck of the container being so spaced from the portion of the side wall of the other member which selectively covers and closes the port in the side wall of the one member that when the closure means for the neck of the container is in open, inoperative, position the port in the side wall of the one member is closed, and that when the closure means for the neck of the container is in closed, operative, position such port in the side wall of the one member is open, providing communication between the cavity of the container in the neck of which the receiver is adapted to be placed, and the receiver.

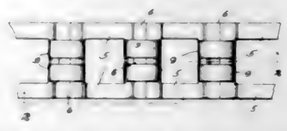
4. A measured quantity dispenser adapted for use with a container having a liquid receiving main cavity and a neck at the top thereof communicating therewith, the neck having means for receiving and securing thereover a cap independent of the dispenser, the dispenser comprising a rigid walled receiver adapted to be positioned in the neck of the container so as not to interfere with application of the cap to the container neck, and over the top of the dispenser, the receiver comprising a first member, such first member being an upwardly directed elongated cup-shaped member, such first member being of such length that the bottom end thereof projects a substantial distance into the main cavity of the container when the dispenser is assembled therein, such first member having means thereon for attaching it to the top of the container neck to form a fluid tight connection therewith, the receiver being completed by a second member, the second member being a downwardly facing elongated cup-shaped member, said second member being slidably received within the first member in fluid tight relationship therewith, means constantly urging the first and second members into expanded relationship with each other, a stop means for limiting the upward travel of the second member so that the cup-shaped upper end of such member projects but a relatively small distance above the top of the first member, the second member having a first port in the upper sidewall thereof so positioned as to lie above the top of the first member when the second member is in fully elevated position with respect to the first member and to lie within and to be closed by the side wall of the first member when the second member is depressed so that its upper end lies substantially flush with the upper end of the first member, the first member having a port in the wall thereof at a location within the main cavity of the container but a substantial distance above the lower end of the first member, the second member having an imperforate portion of its lower wall covering and closing such port in the side wall of the first member when the second member is in fully elevated position, the second member having a second port in its lower wall, so located that when the upper cup-shaped end of the second member is depressed to a level substantially that of the top end of the first member the last described ports in the walls of the first and second members coincide to provide communication through such ports between the cavity and the receiver, the first and second ports in the second member being so spaced longitudinally thereof and the port in the first member being so spaced from the top of such first member that at no point within the range of travel of the second member within the first member is there provided into and through the dispenser an open path of communication from the lower end of the receiver to the atmosphere.

2,530,013
MAGNETIC TOY
Frank G. Hanback, Allegany, N. Y.
Application February 19, 1946, Serial No. 648,692
2 Claims. (Cl. 46—45)



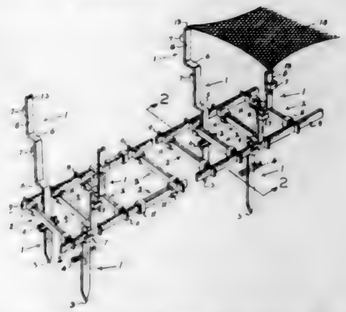
1. A magnetic toy comprising a substantially-flat, circular, hollow casing composed of two sheets of transparent plastic material and an hermetically-sealed joint uniting the circular edge portions of said sheets to hold them in spaced relation, a multiplicity of magnetically-attractable elements permanently confined in the space between said sheets and protected from moisture by said sealed joint, a circular pictorial-sheet holder having a circular side wall with an inner diameter of a size to receive and frictionally grip a peripheral portion of said casing to releasably retain the latter in said holder, and at least one flat circular pictorial-sheet confined in said holder by said casing and having a diameter corresponding substantially to the internal diameter of said side wall, said sheet bearing a pictorial subject to be changed in appearance, the entire upper area of said pictorial sheet being visible through the spaced transparent sheets of said casing, whereby a manually guided magnet when moved over the top of said casing may move said elements to any selected portion of said pictorial sheet to change the appearance of the pictorial subject thereon.

2,530,014
CHAIN CONSTRUCTION
Samuel A. Holmes, Storm Lake, Iowa
Application December 17, 1947, Serial No. 792,233
1 Claim. (Cl. 74—249)



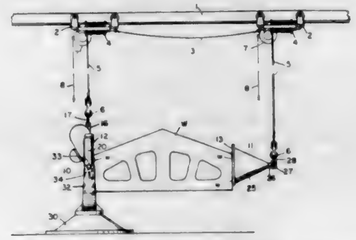
A chain link comprising side bars and end bars connecting the side bars, a curved end section extending from one of the end bars, the free edge thereof being spaced from the bar of which it forms a part, providing an open bearing in which an end bar of a link is pivotally held in forming a chain, and malleable tongues integrally secured to the end bar adjacent to the curved end section at one of their respective ends, said tongues overlying the open bearing in spaced relation therewith and said tongues being bendable into engagement with the curved end section closing the major portion of the open bearing, securing adjacent links together.

2,530,015
TRELLIS
Addy S. Kouri, Oklahoma City, Okla.
Application March 20, 1948, Serial No. 16,121
2 Claims. (Cl. 47—46)



1. In a knock-down trellis assembly, the combination of: a plurality of pointed legs adapted to be thrust into the earth's surface, each leg having a plurality of vertical portions which are off-set laterally, said legs adapted to be assembled in the ground in laterally spaced pairs, with the off-set portions of each pair uppermost and most remote from each other; a rigid outwardly extending loop of strap-like material carried by each of said vertical portions, with the edge of the material presented upwardly; longitudinally extensible horizontal strap-like side members extending between similar legs of a plurality of said pairs, said side members positioned on edge and being notched upwardly to removably engage the upper edges of said loops; and a plurality of longitudinally extensible horizontal strap-like cross-members positioned on edge and extending laterally between two of said side members, said cross-members removably connected solely to the side members, said side members and cross-members having complemental notches in their respective edges whereby the upper edges of all reside in a single plane when they are in assembled relation.

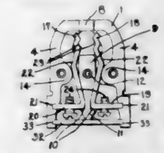
2,530,016
WORK SUPPORT
George G. Landis, South Euclid, and Norman J. Hoenie, Cleveland Heights, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a corporation of Ohio
Application March 26, 1945, Serial No. 584,968
2 Claims. (Cl. 29—284)



2. In combination, a work support comprising a floor stand, a frame mounted thereon for swiveling action about a vertical axis and having horizontally disposed trunnion bearings, a head stock having correspondingly disposed trunnions disengageably journalled in such bearings, said head stock including a work-supporting member rotatably mounted thereon, the rotative axis of which lies transversely of such trunnion axis, a tail stock adapted also to support such work at a point spaced from said head stock for rotation about such axis of rotation, flexible overhead lifting means to elevate and support said tail stock and thereby determine the oscillatory position of said head stock and work relative to said floor stand, and indexing mechanism included in said head stock to index such work and member and hold the same in desired position about such axis of rotation regardless of the oscillatory position thereof.

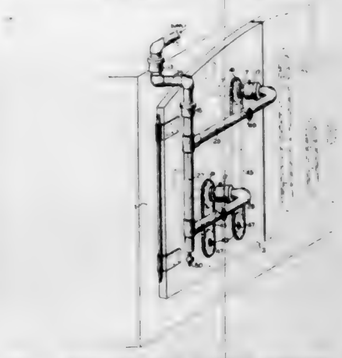
2,530,017
FLUORESCENT LAMP HOLDER
Solomon Levenson, Salem, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application November 3, 1944, Serial No. 561,730
1 Claim. (Cl. 173—328)

A lamp holder for tubular lamps of the type which have a pair of contact pins in their bases, comprising a body of insulating material, a chamber in the body opening rearwardly away from the lamp and presenting front and side walls, a substantially triangular pin receiving aperture in said front wall opening into said chamber the apex of said substantially triangular aperture being truncated and co-extensive with the top of said body of insulating material and the walls of said body of insulating material which define said truncated apex being substantially convex, said aperture having at least a portion of its periphery presenting a radius to embrace the lamp pins and confine the rotation of the lamp to a predetermined axis when it is inserted in the holder, a central abutment in said chamber extending vertically from a position substantially horizontally in line with the bottom



edge of said aperture to the bottom of said body and having flat side portions, a pair of semi-cylindrical side abutments extending inward from said side walls substantially midway of the body height to a point near said central abutment and opposite the upper extremity of said flat side portions, a pair of spring conductors in said chamber extending upward to engage the lamp pins and downward between the side and central abutments said conductors having flat portions engaging the flat portions of the central abutment from a position at the level of the side abutments down to their lower extremities, screw means on said conductors for connecting them to a circuit and a back plate to close said chamber.

2,530,018
FLUID JET CLEANER FOR BOILERS
Conrad G. Marks, Jasper, Ind.
Application December 31, 1948, Serial No. 68,700
1 Claim. (Cl. 122—391)



In a boiler blower system wherein a jet arm, having jets directed toward boiler flues to be cleaned, is positioned interiorly of a hinged boiler door, and wherein an extension of said arm extends perpendicularly through said door and means are provided for rotating said jet arm by rotation of the exterior portion of said jet arm extension, and a steam supply is provided for said jets, a steam supply unit comprising a general supply pipe terminating in an offset swivel

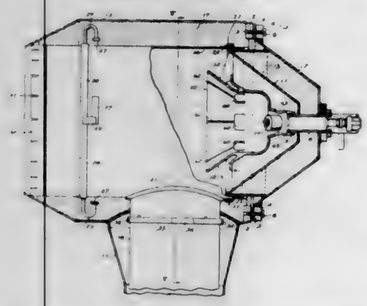
joint with its axis approaching but apart from the extended axis of said door hinges, a main pipe extending parallel to the axis of said door hinges and outwardly spaced apart therefrom, an elbowed connection pipe connecting said swivel terminating said general supply pipe with said main pipe line, a tap line leading from said main line to said jet arm extension, said tap line being perpendicular to said main pipe line and extending parallel to said boiler door, a swivel joint interposed in said main pipe line between said tap line and said elbowed pipe connections, whereby said swivel joints accommodate angular changes caused by the difference in the positioning of the axis of said door hinges and said swivel terminating the general supply line when said door is swung open or closed, and a telescopic swivel joint interposed between said tap line and said jet arm extension, whereby the swivel allows rotation of said jet without disturbing the supply unit and the telescoping action accommodates variations in spacing of said tap line with respect to said door caused by said angular changes.

2,530,019

COMBUSTION CHAMBER WITH SIDE AIR ENTRANCE AND HOLLOW IGNITION CONE

Martin A. Mayers, Pittsburgh, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania

Application November 11, 1944, Serial No. 563,052
14 Claims. (Cl. 60—44)



5. A continuous combustion chamber comprising a substantially cylindrical casing open at its front end and provided with a lateral inlet through which a stream of air is adapted to flow diametrically across the casing to the opposite side thereof, a hollow ignition cone disposed at the rear end of said casing with its larger end facing forward and projecting only a short way across said inlet to deflect a small amount of the air stream back along the outside of the cone, the cone's side wall being provided with openings to admit said deflected air to the inside of the cone, and a fuel injector extending through the wall in the back portion of the cone for injecting fuel inside the cone.

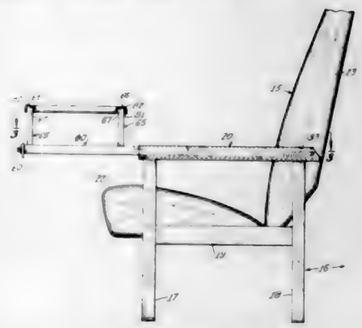
2,530,020

TRAY SUPPORTING MEANS

Warren McArthur, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y., a corporation of the United States

Application November 16, 1946, Serial No. 710,331
5 Claims. (Cl. 155—127)

1. In supporting means for a tray or the like, a hollow support, a member telescopically mounted in the support, detent means for controlling sliding movement of the member with respect to the support, a first arm pivotally connected proximate one end to the member, a second arm pivotally connected proximate one end to the member, the axes of the pivotal connections being substantially parallel, said arms being disposed in



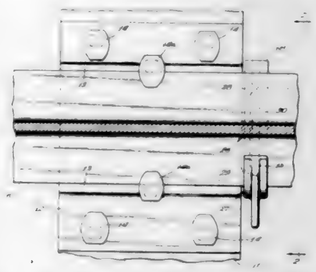
the support with their other ends projecting toward each other, means for imparting movement to the arms about their respective pivotal connections upon release of the detent means and predetermined protracted movement of the member with respect to the support, and means for limiting said movement of each arm about its pivotal connection.

2,530,021

RAIL ANCHOR

Richard A. McLaughlin, Canton, Ohio, assignor, by mesne assignments, to Poor & Company, Chicago, Ill., a corporation of Delaware

Application December 13, 1948, Serial No. 65,000
1 Claim. (Cl. 238—327)



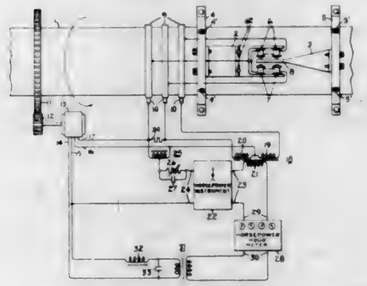
A rail anchor comprising a bar T-shaped in cross-section, including a relatively wide vertically disposed central rib extending the full length of the bar and horizontal arms at opposite sides of the central rib, bent at one end into hook form with the horizontal arms of the T defining the inner surfaces of the hook and providing relatively wide flat faces for gripping the top and bottom surfaces, respectively, of one base flange of the rail with the said vertical rib extending around said bend and to the end of the hook to provide vertical reinforcement therefor and the body being formed at its other end with shoulder means for engaging the vertical edge portion of the other base flange of the rail; a portion of the vertically disposed rib underlying the horizontal arms beneath the rail base being slit lengthwise of the body adjacent said horizontal flanges and the metal beneath the slit pressed outwardly from its original plane to provide a relatively long and wide tie abutting surface whose vertical plane is located outside the vertical side planes of said horizontal arms and the said horizontal arms providing a chord for restraining transverse and lengthwise flexing of the outwardly pressed portion of said vertical rib.

2,530,022

INTEGRATING LOAD METER FOR ROTATING SHAFTS

Alfred V. Mershon, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 26, 1948, Serial No. 46,195
2 Claims. (Cl. 73—136)



1. A load meter for a rotating shaft comprising alternator means for generating first and second alternating voltages in phase quadrature and each proportional in amplitude and frequency to the rotational speed of such shaft, at least two magnetic strain gages mounted upon such shaft so that the inductance of at least one gage increases and the inductance of at least one other gage decreases responsive to twisting of the shaft, a transformer having two portions of its primary wound in bucking relation to each other, said two portions respectively being connected in series with said increasing inductance and decreasing inductance strain gages to form an essentially inductive bridge circuit, connections to energize said bridge circuit by said first voltage, said bridge circuit being balanced when no torque is transmitted by such shaft and unbalanced when the shaft is twisted by transmitted torque, so that current is induced in the secondary of said transformer which is proportional in amplitude to the torque transmitted by the shaft, and means responsive to the product of the amplitude of said second voltage and the amplitude of said current.

2,530,023

COLOR CINEMATOGRAPHY

Warren Millais, New York, N. Y., assignor to Walter A. Amend, Sr., Great Bend, Kans.

Application June 13, 1944, Serial No. 540,053
19 Claims. (Cl. 88—16.4)

1. The method of motion picture photography and projection in colors which comprises exposing one frame of a sensitive film successively through a filter passing substantially all wavelengths in the visible spectrum except a band of red wavelengths and a filter passing substantially all wavelengths of the visible spectrum except a band of yellow wavelengths, then exposing the next frame of the film successively through a filter passing substantially all wavelengths of the visible spectrum except a band of green wavelengths and a filter passing substantially all wavelengths in the visible spectrum except a band of blue wavelengths, then exposing the third frame of the film like the first and the fourth frame like the second and so on for all of the

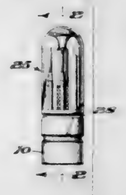
frames of the film, projecting the images of the frames of a positive corresponding to the frames of the sensitive film exposed through the filters blocking red and yellow light, successively through a filter passing only green light and a filter passing only blue light and each other frame successively through a filter passing only red light and a filter passing only yellow light.

2,530,024

TOOL PACKAGE

William S. Moody, Cranston, R. I., assignor to Moody Machine Products Co., Inc., a corporation of Rhode Island

Application September 30, 1949, Serial No. 118,731
5 Claims. (Cl. 206—17)



1. A tool package comprising a cylindrical base having a central axial recess with a tool holder having one end portion therein and a circular head at the other end, said base also having a plurality of recesses arranged about said axial recess and spaced therefrom, a plurality of tools to fit into said holder located in said plurality of recesses, a cylindrical cap having a curved dome-like closed end engaging the circular head of the tool holder along a circular line and an open end telescoped over said base and tightly frictionally gripping the same to maintain the holder engaging the end of said central recess in which it is located and encasing said tools.

2,530,025

QUINAZOLINE DERIVATIVES AND PROCESS OF MAKING SAME

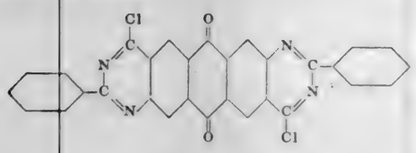
Eduard Moergeli, Neuewelt, Paul Sutter, Binningen, and Walter Kern, Sissah, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 24, 1947, Serial No. 756,808. In Switzerland July 9, 1946
9 Claims. (Cl. 260—251)

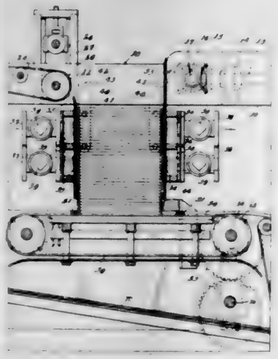
1. Process for the manufacture of a quinazoline derivative which comprises reacting an acyl-

amino-anthraquinone-orthonitrile with phosphorus pentachloride at elevated temperature, and recovering the said quinazoline derivative.

9. As a new product the diquinazoline derivative of the formula



2,530,026
APPARATUS FOR SATURATING EDGE PORTIONS OF FIBERBOARDS
Carl G. Muench, Glenview, Ill., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application October 25, 1945, Serial No. 624,505
4 Claims. (Cl. 91—43)



1. In an apparatus for saturating the edges of felted fiber boards, a foraminous wall, means superposing a plurality of sheets of board form material into a stack having an edge face, means positioning and retaining an edge of the stack substantially in contact with a face of the foraminous wall and means supplying saturant under pressure against that side of the foraminous wall remote from its surface which is substantially in contact with an edge face of the stack of boards.

2,530,027
SADIRON HOLDER
Howard A. Perrigo, Hamden, Conn.
Application December 31, 1947, Serial No. 795,087
4 Claims. (Cl. 248—117.1)

1. An iron holder comprising: a wire-frame having legs arranged to secure said frame in spaced relationship on a substantially-vertical support; a transverse base-rail at the lower end of said frame; longitudinal guide-rails intermediate the upper and lower ends of said frame; an imperforate heat insulating plate; means to suspend said plate intermediate said vertical-supporting surface and the vertical plane of said frame; and a harness comprising forked arms arranged to extend across said plate, the outer free ends of said arms being slidably mounted on the longitudinal guide-rails of said wire-frame, said harness being adapted thereby to hold the nose of an iron supported in said frame against said transverse base-rails against said imperforate

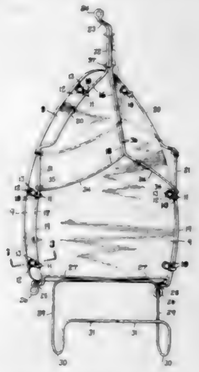


plate and to automatically adjust itself to irons of different sizes mounted in said wire-frame.

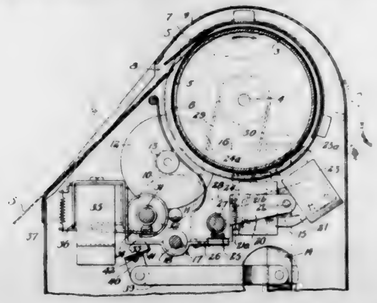
2,530,028
MACHINE FOR WASHING CLOTHES
Wilhelm Henning Petersén, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application October 6, 1945, Serial No. 620,670
In Sweden November 28, 1944
4 Claims. (Cl. 68—190)

1. A washing machine comprising a container for clothes to be washed, nozzles arranged in staggered relation to each other on two opposite sides of the container, the nozzles on the one side having cross sections the width of which increases upwardly, and the nozzles of the opposite side having cross sections the width of which increases downwardly, an intermittently working pump for washing liquid, means connecting said pump to the nozzles for pushing currents of washing liquid through the same towards the clothes in the container thereby giving them a wave-like turning and lifting movement.

2,530,029
EQUALIZER FOR SUPPORTING MAGNETIC RECORDING AND ERASING HEADS
Chester C. Pond, Melrose Park, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 25, 1947, Serial No. 743,806
9 Claims. (Cl. 179—100.2)

1. In a machine for use with magnetic records, a backing member adapted to support a record during scanning, a pair of magnetic scanning heads adapted to engage a record so supported

and positioned to sequentially scan a single path on the record, a mounting for said heads comprising a lever having a fulcrum between the heads and means for resiliently urging said heads



against the surface of a record, and additional resilient means urging the trailing head against the record with greater pressure than the leading head.

2,530,030
RACK ENGAGING LEVER CARRIED DETENT
Ernest George Francis Robertshaw, Baildon, England
Application November 13, 1947, Serial No. 785,649
In Great Britain November 18, 1946
8 Claims. (Cl. 74—536)

1. A control lever comprising in combination a pivoted operating lever, a pivoted control handle, a fixed ratchet rack, a pawl element on a yoke element which is pivoted to said operating lever to enshroud said control handle and which has two cam surfaces thereon one on each side of said yoke, said pawl element being lockable in engagement with said fixed ratchet rack, and a pawl operating cam member pivotally carried by said control handle and adapted to cooperate with either of said two cam surfaces on said yoke element in order respectively to lock or unlock said pawl element relatively to said ratchet rack, said control handle being capable of a limited degree of movement relatively to said operating lever in more than one plane and limited by said yoke element to enable said pawl operating cam member to be brought selectively into engagement with either of said cam surfaces.

2,530,031
HONDA BREAKAWAY
Faucette S. Rudolph, Torrance, Calif.
Application September 9, 1948, Serial No. 48,352
3 Claims. (Cl. 119—153)

1. A honda break-away comprising a pair of members each having a socket to receive an end of the honda rope, means to secure said ends in said sockets, one of said members having an open tubular end and the other a short projection adapted to be loosely received therein, a channel in the tubular end, a groove around the projection, a spring ring in the groove and another in the channel, said rings being positioned to interlock when the parts are telescoped.

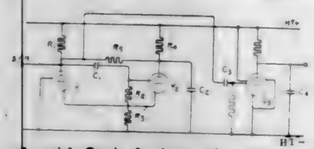
2,530,032
DOLL
Wallace Schier, Forest Hills, and David L. Doggett, Mount Kisco, N. Y.
Application July 17, 1946, Serial No. 684,131
8 Claims. (Cl. 46—141)

1. A doll, comprising a body having a padded smooth-topped layer in the throat area; a head structurally independent of said body disposed on said layer, the area of said head overlying said layer being imperforate, and said head and said layer forming upper and lower walls of a passage; strap means secured to said body and to said head for tightly but flexibly securing said head to said body, whereby said passage is normally substantially imperceptible; and means at the rear of said body to receive food-simulating articles which may be introduced into said passage.

2,530,033
SENSITIVE FLIP-FLOP CIRCUIT
Graham J. Scoles, London, England, assignor to General Electric Company, a corporation of New York
Application January 30, 1948, Serial No. 5,356
In Great Britain February 19, 1947
6 Claims. (Cl. 250—27)

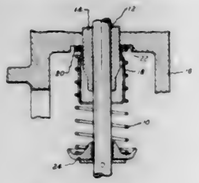
1. A flip-flop circuit comprising a pair of electron discharge devices, each with an anode, a

cathode and a control electrode, biasing means for a first one of said devices for biasing said first device to non-conduction during conduction of the second of said devices, said means comprising a common cathode impedance for said cathodes, a long time constant control electrode circuit for said second device connected to the



anode of said first device, whereby application of a synchronizing signal to said second device which tends to reduce conduction in said second device causes conduction of said first device, a resistor directly interconnecting said anodes, and a capacitor connected directly from a point of fixed potential to a point on said resistor.

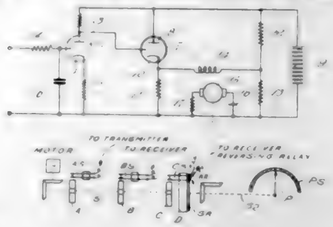
2,530,034
SPRING DAMPENER
John L. Sjolander, Cleveland, Ohio, assignor to Cleveland Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Application January 31, 1947, Serial No. 725,545
2 Claims. (Cl. 267—1)



1. A spring dampener of the type described comprising a longitudinally split sleeve forming throughout a substantial portion of one end and intermediate portion a substantially continuous unbroken surface, an out-turned flange at the opposite end, the portion of said sleeve adjacent said flange defining longitudinally extending circumferentially spaced slots located between said intermediate portion and flange and projecting into a portion of said flange.

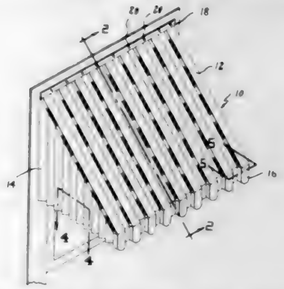
2,530,035
ECHO SOUNDER AND OTHER DEVICE FOR DISTANCE MEASURING IN WATER
James Watt, Chelmsford, England, assignor to Marconi Sounding Device Company Limited, London, England, a company of Great Britain
Application January 13, 1948, Serial No. 2,073
In Great Britain January 15, 1947
7 Claims. (Cl. 177—386)

1. A sub-aqueous distance measuring device of the periodic pulse echo type comprising means for periodically transmitting pulses; means for receiving reflected pulses; means for effecting the operation of said receiving means in a succession of equal sub-periods of which any two successive sub-periods have a combined duration not exceeding the transmission period; means for controlling receiver sensitivity during alternate sub-periods whereby, in the absence of received echoes, the received energy content during alternate sub-periods averaged over a length of time long relative to the transmission period substantially equals the received energy content in the remaining sub-periods averaged over the same time; means for comparing the two averaged energy contents; automatic means for altering the times of commencement of said sub-



periods in dependence upon any inequality between said averaged energy contents until equality therebetween is restored; and means for indicating distance in terms of the time difference between transmission pulses and said times of commencement required to restore said equality.

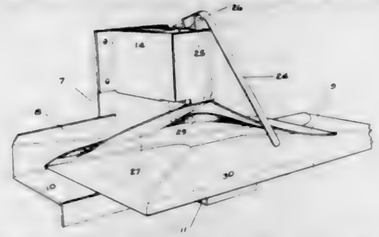
2,530,036
AWNING
Edward M. Williams, Houston, Tex.
Application November 15, 1946, Serial No. 710,207
1 Claim. (Cl. 20—57.5)



A substantially unitary and rigid awning comprising a pair of rigid side members and a rigid cover piece, said cover piece having each side member rigidly secured to opposite edges thereof, said side members formed as a continuous chain of modified V channels, having one leg longer than the other, said cover piece formed as a continuous chain of alternately reversed U channels and outwardly struck louvers in the said modified V channels and in the shorter leg thereof and inwardly struck longitudinally spaced louvers in each leg of the said U channels.

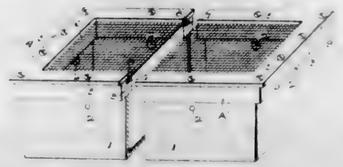
2,530,037
ENVELOPE MOISTENER AND SEALER
Paul Willis, San Francisco, Calif.
Application June 9, 1947, Serial No. 753,407
1 Claim. (Cl. 120—6)

A device for sealing envelopes embodying in its construction a base, a fluid reservoir secured thereto and spaced above said base, a flange depending from said reservoir and extending at an angle beneath the bottom of the same and toward the front portion of the base, a moistening pad fixed to the top face of said flange, a valve in the bottom of the reservoir capable of releasing fluid to the pad, means including a downwardly extending lever for operating the valve, means pivotally securing the upper end portion of the lever to the said reservoir, means carried by said base for receiving and guiding the inner glued portion of an envelope flap to and across the said moisten-



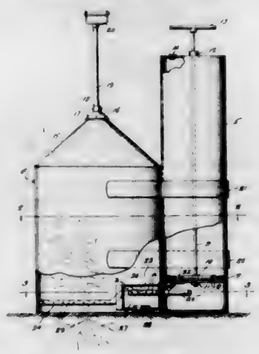
ing pad, means for sealing the flap to the envelope, the said sealing means including a member on the top of the base at the rear extremity thereof and extending at an angle upwardly therefrom toward the moistening pad.

2,530,038
INSPECTION AND CLEANING TABLE FOR TEXTILES
D. Otis Wylie, Charlotte, N. C.
Application September 2, 1948, Serial No. 47,507
4 Claims. (Cl. 68—240)



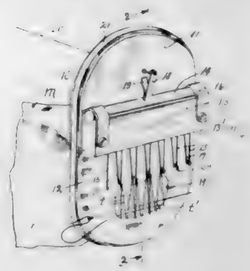
1. An inspection table for textile mills, said table having a top formed with an opening a framework having an opening and including a part supported by the top above the opening and a second part fitting into the opening and a screen mounted over the opening.

2,530,039
PLANT DUSTER
Harry R. Ashcraft, Edgewood, Md.
Application August 26, 1946, Serial No. 693,068
1 Claim. (Cl. 43—147)



A plant dusting apparatus comprising a plant covering hood, a vertically disposed air cylinder at the side of the hood, means for securing the cylinder to the hood, a plunger rod operating through the top of the cylinder and provided with a piston at its lower end and within the cylinder, a handle at the upper end of the rod and at the outer side of the cylinder, a chemical containing box located on the inside of the hood and secured to the side wall thereof, and an opened loop-shaped pipe extending circumferentially within the hood and having leg portions projecting through the chemical containing box and through the side wall of the hood and into the lower portion of the cylinder, below said piston, said leg portions being open at their free ends and terminating in close proximity to each other, said loop-shaped pipe being formed with openings, said leg portions each having a barrier therein at a point within the confines of the chemical containing box, said leg portions having openings therein at each side of their respective barriers.

2,530,040
DARNING DEVICE
Max D. Baumgart, New York, N. Y.
Application March 29, 1949, Serial No. 84,149
4 Claims. (Cl. 139—33.5)

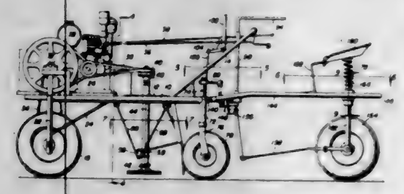


1. A manually operable darning last or device, comprising a pair of plates adapted to be resiliently joined to clamp the material to be darned between them, a member fixed to one of said plates, a series of hooked elements fixed thereon in a uniformly spaced relationship, a cylindrical member rotatably borne on said fixed member, a similar series of hooked elements fixed on said rotatable member in a similar uniform spaced relationship, said hooked elements being adapted to support lengths of a thread to form warps, said second series being adapted to be swung rearwardly and forwardly to form a warp shed between themselves and the fixed elements for the alternate passage of a weft thread through the warp shed after the hole of the material has been covered by said warps, and means for turning the said turnable member.

2,530,041
POWER MOWER
John H. Bennett, Falls County, Tex.
Application January 28, 1948, Serial No. 4,740
8 Claims. (Cl. 56—25.4)

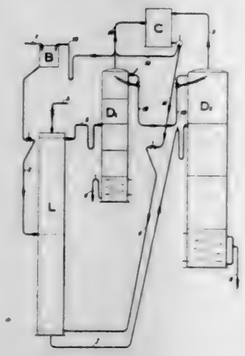
1. In a power mower, a frame, a pair of stub axles carried by said frame, a driving wheel mounted on each stub axle, a power shaft journalled transverse the front end of said frame and above the same, an engine mounted on said frame, said power shaft having a mid-section connected to said engine and aligned end sections individ-

ually connected to said stub axles and a one way clutch interposed between said mid-section and



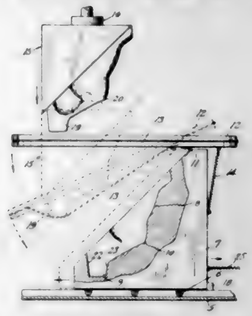
each end section, said end sections being disposed vertically above said stub axles.

2,530,042
SEPARATING HIGHER MOLECULAR ALCOHOLS FROM THE SOAPS OBTAINED IN THE PREPARATION OF THE SAME
Vsevolod Blinoff, Paris, France, assignor to Société Anonyme dite: Societe D'Innovations Chimiques dite: Sinnova ou Sadic, Maux, Beauval, France
Application October 11, 1947, Serial No. 779,384
In France March 11, 1947
4 Claims. (Cl. 260—643)



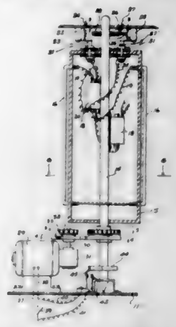
1. A continuous method for the separation of high molecular fatty alcohols from their mixtures with soap obtained in the preparation of the same comprising admixing a high molecular alcohol and soap mixtures with a solvent for the high molecular alcohol in which the soap is less soluble than in water and introducing the resulting mixture into the middle portion of a washing-tower, introducing wash-water into the top portion of said tower, discharging aqueous soap solution containing a small quantity of the solvent from the bottom of the tower, feeding the same into the top part of a first distillation column, condensing solvent vapors that escape from the top of the said first distillation column, tapping solution of high molecular alcohol from the top of the aforesaid washing tower, leading said last named solution into a second distillation column in which the solvent is separated from the high molecular alcohol, condensing solvent vapors that escape from the top of the said second distillation column, and re-using the solvent condensate from the first and the second distillation columns to treat further amounts of the high molecular alcohol and soap mixture.

2,530,043
METHOD AND APPARATUS FOR DRAWING PLASTIC SHEET MATERIAL
Gustave W. Borkland, Marion, Ind.
Application December 3, 1945, Serial No. 632,542
11 Claims. (Cl. 18—19)



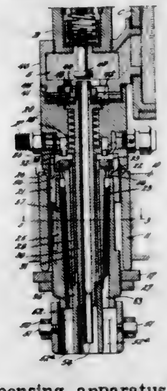
9. Apparatus for drawing a sheet of thermoplastic material comprising a rectilinearly reciprocable male die member, a frame for securing the edge portions of a sheet to hold it flat and extending across the path of said die preparatory to the drawing operation, and means for mounting said frame for rocking movement to vary the angle of the line of pressure of the die on the sheet and for reciprocation transversely with respect to the path of movement of said die member to vary the position of the sheet with respect to said path.

2,530,044
ILLUMINATED CHANGEABLE SIGN DEVICE
Guillermo Lopez Castillon, San Antonio, Tex.
Application July 25, 1947, Serial No. 763,682
1 Claim. (Cl. 40—77)



A changeable sign comprising a support, a regular polygonal rotor, a shaft extending through said rotor being fixed thereto and rotatably journalled in said support, a motor, a continuously rotating drive shaft operatively connected to said motor, a gear fixed on said rotor shaft, a gear segment fixed on said drive shaft engageable with said gear for intermittently rotating said rotor, a disc fixed on said drive shaft and formed with an arcuate recess on one side in registry with said gear segment, a cam member on said rotor shaft formed with arcuate side edges for engagement with said disc and arcuate corners engageable in the recess in said disc for holding said rotor while said segment is out of mesh with said gear, lamps carried by the sides of said rotor, circuit connecting means for said lamps including a resilient contact arm, a cam on said rotor shaft engaging said contact arm for breaking the lamp circuit in timed relation to the rotation of said rotor, a motor circuit for said motor including a control switch, and a shunt switch across said latter switch, said latter switch including a resilient contact arm engageable with a fixed contact member, and a cam on said rotor shaft associated with said first cam and said segment gear engaging said latter resilient contact arm for shunting said control switch thereby connecting the motor circuit to complete each intermittent movement of said rotor.

2,530,045
DISPENSING APPARATUS
Bruce G. Copping, Atlanta, Ga., assignor to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application July 18, 1946, Serial No. 684,398
7 Claims. (Cl. 138—46)



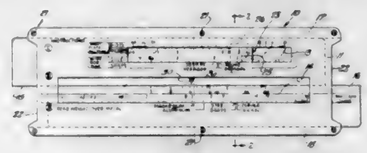
1. In a dispensing apparatus for liquids, in combination, a conduit leading from a source of supply to a discharge port, and means in said conduit immediately in advance of said discharge port dividing the same into a plurality of transversely elongated passages each of which is of such small cross section and of such length that the pressure energy of fluid passing therethrough is substantially consumed and the liquid is caused to issue therefrom and to pass through said discharge port at low velocity and in a non-turbulent manner.

2,530,046
DIAPER
James H. Crossingham, Mount Airy, N. C., assignor to Mount Airy Knitting Co., a corporation of North Carolina
Application November 3, 1947, Serial No. 783,672
2 Claims. (Cl. 128—284)

1. Diaper comprising an elongated substantially rectangular widthwise stretchable sheet having back and front portions adapted to be upturned to bring said portions in embracing relation respectively to the back and front of the body, a rubber band extending across the end of each portion secured at its ends to said sheet adjacent the lateral edges thereof, a pair of fastening devices adjacent each end of the back band, the devices of a pair being transversely spaced and secured solely to said sheet so as to be relatively movable in a transverse direction when said sheet is stretched, complementary fastening devices adjacent the ends of the front band selectively engageable with the outer or inner fastening devices of said pairs, so as to include the full length of the back band in the elastic circumferential girth line formed by the bands, or

to exclude the end portions of the back band therefrom, without altering the full length of the front band which is included in said girth line, and a pad congruent with the intermediate portion of said sheet, stitched thereto at one side only.

2,530,047
SLIDE RULE
Norman F. Dewar, Gages Lake, Ill., assignor to Graphic Calculator Company, Chicago, Ill., a corporation of Illinois
Application June 27, 1946, Serial No. 679,819
12 Claims. (Cl. 235—70)

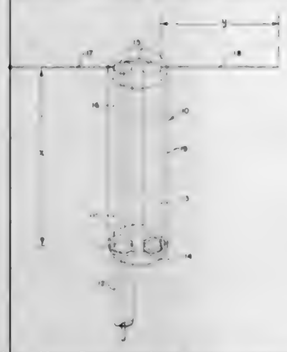


1. A slide rule comprising a body portion having an elongated slot, a scale carried by said body portion, a scale movable with respect to said body portion and underlying said portion, and a cursor having a hairline and movable with respect to both said scales, said cursor having parallel shoulders slidably engageable with the longitudinal margins of said slot and having at least one flange lying between said body portion and movable scale.

2,530,048
UNBALANCED-TO-BALANCED IMPEDANCE MATCHING DEVICE
Clare Driscoll, Brookline, Mass., assignor to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,103
4 Claims. (Cl. 250—33)

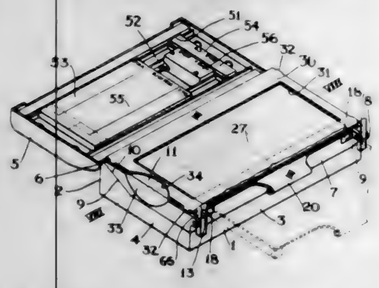
1. A system for minimizing standing waves in a broad band radio frequency transmission system wherein a balanced load is matched to an unbalanced line including in combination a dipole antenna each of whose elements differs in length by substantially .05 wavelengths from one quarter wavelength at the center frequency of the desired frequency band of operation and a

transformer device comprising a section of coaxial transmission line having a predetermined length and having an inner conductor and a concentric outer conductor spaced therefrom, an additional conductor substantially equal in length to said coaxial line length and disposed in spaced parallel relation to said coaxial line to form a balanced two conductor transmission line with said outer conductor, the length of said additional conductor and said coaxial line differing from said quarter wavelength in the opposite direction from and by the same amount as the length of said dipole elements and a shorting member



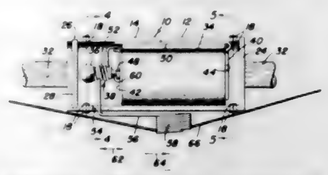
connecting the first end of said additional conductor to the outside of said outer conductor at the first end of said coaxial line, the second end of said additional conductor being connected to said inner conductor at the second end of said coaxial line, one of said dipole elements being connected to the second end of said additional conductor and the other of said dipole elements being connected to said outer conductor at the second end of said coaxial line whereby the reactance of said dipole and said transformer device substantially cancel above and below the center frequency of the operating range.

2,530,049
HOLDER AND PRINTER FOR SALES SLIPS
Olaf Erland Ekblom, Boylston, Mass., assignor, by direct and mesne assignments, of one-half to Joseph A. Dunn, Boston, Mass., and one-half to Katherine M. Hannum, New York, N. Y.
Application February 21, 1944, Serial No. 523,213
12 Claims. (Cl. 101—287)



1. A holder for sales slips comprising, in combination, a hollow base adapted for the storage of duplication sheets and blank sales slips in an interleaved assembly, a writing plate slidably mounted on said base and over the stored sheets and slips so as to be shiftable back and forth thereby to cover and uncover said hollow base, means for guiding the free end portions of the sheets and slips so that they may be manually drawn from the bottom of said base and over the top surface of said writing plate, a cover attached to said base, a type holder carried by said cover for presenting type to the sheets and slips when the cover is closed with said type substantially embracing the area of a slip, and a pressure-exerting means attached to said writing plate so as to press the sheets and slips against the type whenever said writing plate is shifted so as to uncover said base and thereby produce complete sales forms on said slips.

2,530,050
SIGNALING DEVICE FOR FISHING LINES
Enoch Evans, Great Bend, Kans.
Application March 22, 1948, Serial No. 16,287
1 Claim. (Cl. 43—17)

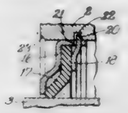


In a signalling device, the combination of a battery, a bulb and a combined battery holder, bulb socket and actuator comprising a single piece of wire providing a straight stem extending longitudinally at a side of said battery, one end portion of said wire being in the form of a flat spiral disposed at one end of and in a plane perpendicular to said stem and affording a holder member engageable with one end of said battery, an intermediate portion of said wire being in the form of a substantially circular loop disposed at the other end of and in a plane perpendicular to said stem and affording a coacting holder member engageable with the other end of the battery, a further intermediate portion of said wire constituting a helical bulb socket having its axis parallel to said stem and movable toward and away from said coacting holder member, and a continuation of the socket forming portion of the wire affording a substantially L-shaped actuating arm extending longitudinally at a side of said battery and terminating in a helix constituted by the other end portion of said wire, said helix having its axis perpendicular to said stem and being adapted to receive and frictionally engage an actuating line between the coils thereof, whereby the bulb in said socket may be operatively engaged with the battery in the holder by movement of said helix in a direction parallel to said stem.

2,530,051
FUSE OR HEAT EXPLODED LINK
Robert O. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application August 7, 1944, Serial No. 548,450
10 Claims. (Cl. 200—142)

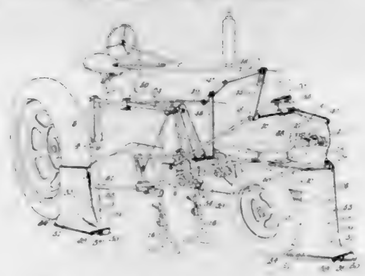
1. A safety device, a hermetically sealed one piece, frangible envelop, a liquid capable of expanding when heated housed within said envelop, means forming part of a mechanical connection attached to said envelop, and conductor means extending through said envelop for electrically connecting said liquid with said mechanical connection, and means forming part of said safety device for setting said device to explode, or rupture at a predetermined temperature.

2,530,052
BEARING SEAL
David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application February 4, 1948, Serial No. 6,141
4 Claims. (Cl. 288—3)



4. A bearing seal comprising a cup-shaped retaining ring, a sealing ring fitting therein, said retaining ring having an annular web and a peripheral flange and having a plurality of suitably angularly spaced openings in said flange, and a split contractible resilient locking ring fitting in said retaining ring and having radiating projections protruding through said openings, said sealing ring being between said web and locking ring.

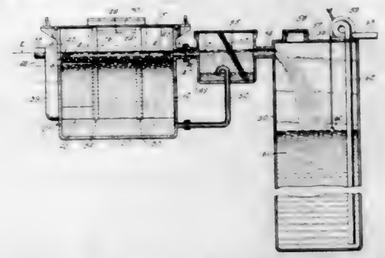
2,530,053
TRACTOR WHEEL GUARD
Thomas Curtis Glass, La Grange, Ga.
Application October 29, 1948, Serial No. 57,320
4 Claims. (Cl. 97—192)



4. A stalk lifting attachment for tractors of the row-crop type comprising a sheet-metal hood adapted for vertical disposition and having an outwardly flared skirt at its lower end, the bottom edge of said outwardly flared skirt being bent under, whereby said hood may be mounted over a horizontally disposed and substantially V-shaped sweep with the bent-under bottom edge of said hood underlying said sweep.

2,530,054
LIQUID SEPARATOR
Arthur Gordon, Chicago, Ill.
Application December 4, 1946, Serial No. 714,043
6 Claims. (Cl. 210—43)

1. A system for separating the lightest liquid from a mixture of liquids having different specific gravities, comprising a casing having a bottom and sidewalls and having inlet and outlet connections to enable the flow of liquid therethrough, the point of communication of said outlet connection with the casing being located below the inlet connection to the casing to determine the normal liquid level in said casing, a trough positioned around the sidewalls of said casing with its upper edge a predetermined distance above said normal liquid level whereby a flow of liquid through said casing, which raises said normal liquid level above the upper edge of



the trough, will result in the lightest liquid flowing into said trough, a second casing disposed exteriorly of said first casing and communicating with said trough and entraining the liquid flowing into the latter, and a drain pipe interconnecting said first casing and the lower portion of said second casing and returning to said first casing any liquid of higher specific gravity than collected from said first casing and entrained in said second casing.

2,530,055
AIR BAG STEM
Freddie C. Green, Altoona, Ala.
Application February 3, 1949, Serial No. 74,377
8 Claims. (Cl. 18—45)

6. In combination with an air bag having a body of pliable material, an inflating and draining stem extending through the side wall of said body, said stem comprising a hollow central core provided with an intermediate corrugated portion formed of frusto-conical skirts and terminating in externally threaded ends, a pair of anchor members, one of said anchor members threaded to one end of said bolt comprising an annular concave bowl disposed with a concave surface toward said corrugations, the other of said anchor members comprising an elongated plate disposed adjacent the other end of said bolt in surrounding relation therewith and positioned by means of an abutting nut threaded to said other end, said plate having a diametrically opposed pair of transverse flanges depending inwardly therefrom toward said skirts, the maximum dimension of said plate member being less than that of said anchor member and said plate and anchor members coacting to force the adjacent pliable material thereof to fulcrum around the edges of said concave anchor member into

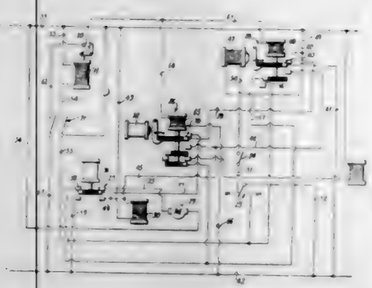
tightly compressed relation against the corrugations of said frusto-conical skirts, a flexible drain tube having an externally threaded nipple, a coupling member sealed to the outer end of said core, and said nipple of said drain tube being threadedly engaged with said coupling member whereby said drain tube can be removed from the outside of said body without removal of the core from the wall thereof.

2,530,056
NUTRITIONAL AND CONDITIONING COMPOSITION FOR BAKED WHEAT FLOUR PRODUCTS
Julius J. Handler, Chicago, and Derrill B. Pratt, Jr., Evanston, Ill., assignors to Chapman & Smith Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 29, 1944, Serial No. 533,400
8 Claims. (Cl. 99—91)

1. A nutritional and conditioning composition for dough containing wheat flour and yeast, said composition comprising the following ingredients in the following proportions, by weight:

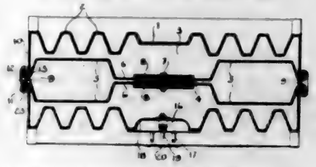
	Parts
Soya flour containing between zero and six per cent fat	2 to 5
Calcium sulphate ($CaSO_4$)	.003 to .02
Malted wheat flour	.04 to .45

2,530,057
SAFETY DEVICE FOR MONEY COUNTING MACHINES
Thomas E. Hayes, Washington, D. C.
Application July 20, 1949, Serial No. 105,787
3 Claims. (Cl. 235—92)



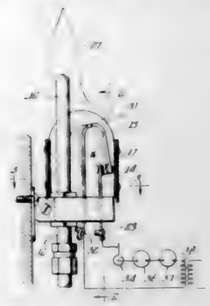
1. In a machine for sorting and counting paper money having a plurality of bill-receiving compartments, bill-feeding means associated with each compartment, a motor to operate said bill-feeding means, a totalizing-counter common to all compartments operable upon insertion of a bill into any of said bill-feeding means, in combination, dumping-shelves in each compartment and means to dump said shelves, a control relay having latch and resetting coils, a circuit closer in said totalizing-counter operable upon said totalizing-counter being reset to zero position, said circuit closer in circuit with said latch coil, a circuit closer in said control relay in circuit with said shelf-dumping means, whereby when said totalizing-counter is reset to zero position a circuit to said shelf-dumping means will be set up.

2,530,058
RADIATOR FOR SPACE HEATING
Hugh Charles Hebard, Greenford, England, assignor to Aladdin Industries Limited, Greenford, England, a British company
Application September 27, 1947, Serial No. 776,503
In Great Britain November 8, 1946
6 Claims. (Cl. 126—93)



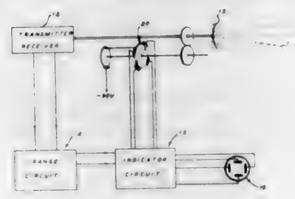
1. A heating radiator including in combination a sheet metal casing comprising vertical front, back and side heat-radiating walls, a high-temperature heat source disposed centrally in said casing, and vertically disposed metal sheets of high heat conductivity in said casing and spaced from the front and back walls thereof and forming a central compartment containing said heat source, each of said sheets and each of said front and back walls extending from side to side of the radiator, said sheets and said front and back walls having each a large surface area relatively to said heat source, said sheets at their mid-portions having close heat-conductive relation with said heat source and being there widely spaced from said front and back walls, said sheets laterally from their said mid-portions being substantially spaced from each other and being there in close heat-radiating relation with said front and back walls, and said sheets at their lateral edge portions being in heat-conductive engagement with each other and with the lateral edge portions of said side walls, whereby said heat source of small area and high temperature heats said front and back walls to a substantially lower temperature for effectively radiating heat therefrom into a room.

2,530,059
THERMAL SAFETY PILOT SWITCH
Stanley R. Hood, Birmingham, Mich.
Application November 14, 1946, Serial No. 709,749
1 Claim. (Cl. 200—138)



A thermal safety pilot comprising a relatively long U-shaped frame, open at one end, and having a pair of mounting ears at such open end, the cross section of the U members being channel shaped, except near the mounting ears where top and bottom triangular extensions are provided, a plurality of porcelain blocks between the legs of the U, a pair of bimetallic members supported between the said blocks with lower portions to receive conductors and upper portions shaped to extend close to each other when their temperature is uniform, contacts in mutually engageable position, a pilot tube disposed between a porcelain block and said triangular extensions and an assembly screw between legs of the U at the open end thereof to squeeze the porcelain blocks and clamp the pilot tube in position, the pilot tube having an opening to project a portion of its flame against one of said bimetal strips.

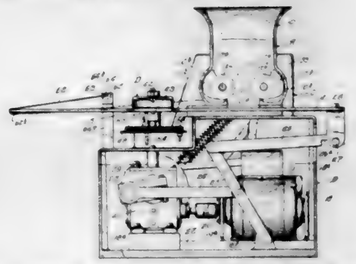
2,530,060
RADIO OBJECT LOCATION INDICATOR
James Vance Holdam, Jr., and Lloyd M. Jones, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application November 27, 1944, Serial No. 565,364
4 Claims. (Cl. 343—11)



2. In a radio object-locating apparatus having means for conically scanning a given space with a pulsed radiation beam and which is adapted to receive pulses amplitude-modulated at the scan frequency that are reflected from a target positioned eccentrically with respect to the average axis of the beam, the combination of: a cathode ray tube having four deflectors capable of being potentialized for deflecting a cathode ray beam in various directions corresponding to the coordinate axes of upper elevation, lower elevation, left azimuth and right azimuth, respectively, to which the position of the target is referred; control means for said cathode ray tube including at least four electron tubes respectively allocated to said coordinate axes and each being operative when rendered conductive to effect potentialization of a respective one of said deflectors; automatic switching means operating in synchronism with said scanning means to condition said tubes for conduction in predetermined sequence, said tubes being conditioned by groups in correlation with the coordinate axes defining the space quadrants which are scanned by said radiation beam; means for impressing upon the control elements of said tubes a modulation-envelope voltage derived from the received signal pulses whereby the conditioned tubes are enabled to conduct according to the strength of the modulated signal; and means operatively interposed between said tubes and said deflectors for causing steady voltages to be impressed upon said deflectors as determined by the relative magnitudes of the signals received from the several space quadrants thereby to produce on said cathode ray tube screen a spot image indicating by its location the elevation and azimuth of said target.

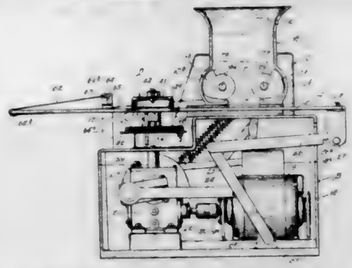
3. An apparatus as defined in claim 2, including means for superimposing on said left and right deflectors an alternating voltage inversely proportional to the range of said target thereby to produce on said cathode ray tube screen a spot image having horizontal wings to indicate the range of said target.

2,530,061
MOLDING DEVICE
Harry H. Holly, Chicago, Ill., assignor to Holly Molding Devices, Inc., a corporation of Illinois
Application March 19, 1949, Serial No. 82,419
19 Claims. (Cl. 17—32)



1. A device for molding articles from plastic material, said device comprising: a hopper for the plastic material having a mold opening; a rotatable feeder in the hopper adjacent said opening having a ram portion; a mold adapted to communicate with said opening; a connector operably attached at one end to said feeder at a point spaced from the center of rotation of the feeder; a reciprocating member to which the other end of said connector is attached; means for operating said reciprocating member to apply force to said connector and thus rotate said feeder from a first position where said ram portion is away from said opening to a second position where said portion is closer to said opening for forcing plastic material through said opening into the mold, said connector being yieldable when said plastic material provides a resistance of a predetermined magnitude to movement of said feeder from said first position to a second position; and a substantially rigid means operably connectable to said feeder and said reciprocating member for returning the feeder to said first position upon further operation of said reciprocating member.

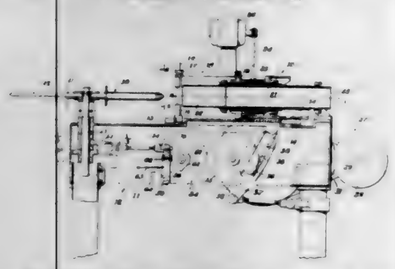
2,530,062
PATTY MOLDING DEVICE
Harry H. Holly, Chicago, Ill., assignor to Holly Molding Devices, Inc., a corporation of Illinois
Application March 19, 1949, Serial No. 82,420
14 Claims. (Cl. 17—32)



1. A device for molding a patty from plastic material, said device comprising: a hopper for the plastic material; a mold adapted to receive a portion of plastic material from said hopper; a supporting member adjacent the mold; apparatus adjacent the mold for transferring said portion from the mold to the supporting member; a back stop adjacent the supporting mem-

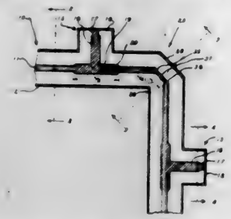
ber; apparatus providing relative movement between the supporting member and back stop with said portion therebetween; a single actuating member operatively engaging both the transferring apparatus and the moving apparatus; and apparatus including a timing device for operating the actuating member to actuate said transferring apparatus and then again operating the actuating member to actuate said moving apparatus.

2,530,063
MACHINE FOR PEELING PREPARED FRUITS
Eugene Robert Jagenburg, Brooklyn, N. Y., assignor to E. R. Jagenburg, Inc., Brooklyn, N. Y.
Application December 3, 1946, Serial No. 713,742
7 Claims. (Cl. 146—6)



1. In a machine for peeling prepared fruits such as pineapples a longitudinal frame, a cutting and peeling head longitudinally reciprocable on said frame between two extreme operating positions, said head being composed of a front and of a rear portion, a ring on said front portion, a plurality of radially disposed adjustable knives in said ring, a rotatable tubular peeler in said rear portion, a circular body portion, surrounding said peeler, said body portion being stationary toward rotation but shiftable with said head, rods connecting said body portion and said ring and means carried by said body portion to rotate said peeler.

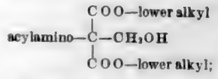
2,530,064
BENT COAXIAL TRANSMISSION LINE
Clarence W. Jones, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 18, 1944, Serial No. 531,634
8 Claims. (Cl. 178—44)



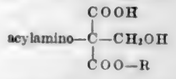
7. A coaxial line with a bend adapted to transmit a broad frequency band without substantial reflection losses, comprising a pair of straight portions including outer and inner conductors with a definite ratio of outer-to-inner conductor diameters to determine a definite characteristic impedance, and an angle section connected between said straight portions and having straight outer and inner conductors with at least one of different diameter from the corresponding conductor of said straight portions to provide an increased ratio of outer-to-inner conductor diameters, said angle section conductors forming equal angles different from 90° with said straight portions.

2,530,065
SERINE SYNTHESIS
John A. King, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application December 18, 1946, Serial No. 717,077
12 Claims. (Cl. 260—482)

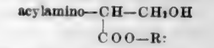
1. The process which comprises: condensing formaldehyde and a lower alkyl acylaminomalonate in the presence of a basic condensation catalyst, thereby forming a lower alkyl (acylamino) hydroxymethylmalonate having the formula



hydrolyzing the condensation product with alkali and then acidifying the basic hydrolysis mixture, thus forming an acid having the formula

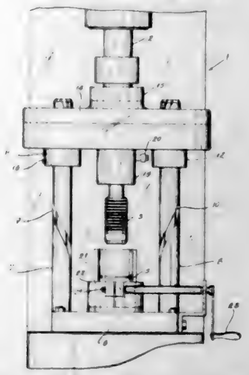


where R is a member of the group consisting of hydrogen and lower alkyl; decarboxylating said acid by heating it, thus producing a propionic acid derivative having the formula



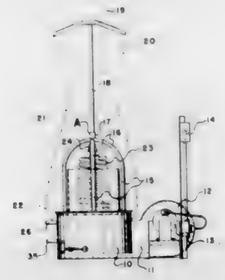
and hydrolyzing the propionic acid derivative with hot mineral acid, thereby forming a mineral acid salt of dl-serine.

2,530,066
KNURLING BROACH
Charles A. Laase, Genoa, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application November 10, 1947, Serial No. 784,971
4 Claims. (Cl. 90—33)



1. A broaching machine for knurling the interior surface of a tubular article comprising means to hold the article; a broach; means to support said broach; means to impose a reciprocatory movement on said second mentioned means; means to reversely rotate said broach which includes a pair of cams provided with reversely cut cam tracks that are selectively engageable by said broach rotating means; a broach ejecting lever in said broach-support; and means to actuate said lever following each passage of the broach through the article.

2,530,067
SUPERHEATED STEAM GARMENT FINISHER
Edward C. Maurer, St. Paul, Minn.
Application December 13, 1945, Serial No. 634,847
4 Claims. (Cl. 223—70)

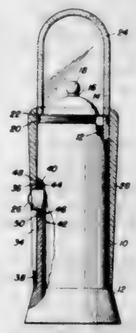


1. A superheated steam garment finisher comprising a hollow base portion, an air blower in close proximity to said base and connected by an air flue, steam inlet and outlet pipes, a live steam outlet coil positioned above said base and having openings out of which live steam may escape, a valve and foot pedal for operating the same adapted to admit live steam to said live steam coil, a series of superheater steam coils connected to said steam inlet and positioned directly above said live steam coil with steam outlets, means for supporting the top of said superheater coils, and an arched frame formed by rod-like members supported in said base and extending over said superheater coils, a garment supporting rod projecting from the apex of said arched frame and adapted to support an under form over which a garment is adapted to be placed for finishing the same, and a cylindrical shield resting upon the top of said base and extending around a large portion of said superheater coils and surrounding said live steam outlet coil to direct the air from said blower to said superheater coils and to expand an under garment supported on said finisher.

2,530,068
BAROMETER
Ira E. McCabe, Chicago, Ill.
Application July 9, 1945, Serial No. 604,076
19 Claims. (Cl. 73—386)

1. The combination in an elastic barometer comprising atmospherically sensitive elastic means; of a cross-spring pivot including three frames, one of which is pivotable and is coupled to each of the other two by a pair of crossed springs, so that the pivotable frame is caused to pivot upon movement of the other two frames relative to each other; means for imparting the movement of said elastic means to at least one of said last mentioned two frames; and means responsive to the rotation of said pivotable frame to obtain a barometric scale reading.

2,530,069
COMBINATION FLASHLIGHT AND TABLE LAMP
George H. Moore, Snow Hill, N. C., assignor of one-fourth to Walter G. Sheppard, Greene County, N. C.
Application March 2, 1949, Serial No. 79,206
1 Claim. (Cl. 240—10.64)



A combination flashlight and lamp comprising a casing having a base, a battery in said casing, a reflector at the top end of said casing, a bulb carried by said reflector, a switch in said casing for energizing said bulb, a transparent globe at the top of said casing enclosing said reflector and bulb, said globe having an external diameter equal to the external diameter of said casing, a tubular shield slidable on said casing having an elongated slot receiving said switch, and means for yieldingly and selectively retaining said shield in a raised position to partially enclose said globe and in a lowered position to entirely expose said globe, said means including spring-urged balls carried by said casing on both sides of said switch and recesses adjacent both ends of said slot for selectively receiving said balls.

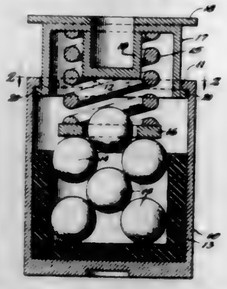
2,530,070
CYCLIC SULFONE AMINES
Rupert C. Morris, Berkeley, and Alva V. Snider, Richmond, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 15, 1946, Serial No. 662,402
10 Claims. (Cl. 260—247.1)

1. A five-membered heterocyclic nucleus consisting of four nuclear carbon atoms and one sulfonyl radical and having one of the nuclear carbon atoms directly attached to the ring nitrogen atom of a six-membered heterocyclic amine nucleus containing in the cycle in addition to the said ring nitrogen atom, four atoms of carbon and one atom of oxygen, the free bonds of the nuclear carbon atoms of said heterocyclic nuclei being directly attached to members of the group consisting of hydrogen atoms and hydrocarbon radicals.

2,530,071
FANFOLD PASS CASE
Daniel J. Nash, Jersey City, N. J.
Application March 8, 1949, Serial No. 80,211
10 Claims. (Cl. 40—102)

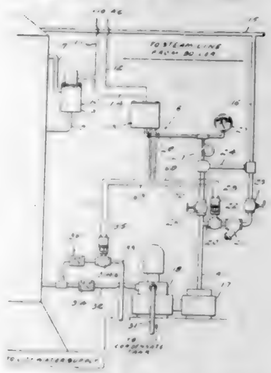
7. A device of the character described comprising a plurality of pass cases, a hinge member secured to each pass case, each hinge having a longitudinally apertured ear portion, a shaft, the ear hinge portions of the pass cases being threaded thereonto for pivotal movement thereabout, the ear pieces of each hinge interfitting with the ear pieces of adjacent hinges, a normally expanding coil spring disposed about the shaft having end portions bearing against the hinges of the outermost pass cases, expanding movement of the coil spring causing swinging apart movement of the outermost pass cases and successive swinging apart movement of the inner pass cases.

2,530,072
SPRING DEVICE
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, a corporation of Illinois
Application March 1, 1946, Serial No. 651,149
7 Claims. (Cl. 267—9)



1. A spring device comprising a plurality of ball like elements, resilient confining means supporting the elements in a column, a compressible spring acting on the elements at one end of the column, an end member acting on the spring to compress it, and a projection on the end member of a length to engage the end element of said column when the spring is fully compressed.

2,530,073
AUTOMATIC CONTROL FOR STEAM BOILERS OR TANKS
Charles L. Oliver, Portsmouth, Va.
Application January 9, 1948, Serial No. 1,348
5 Claims. (Cl. 122—451)

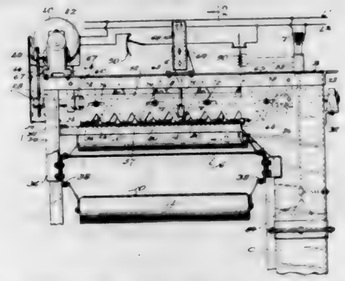


2. An automatic control for steam boilers or tanks comprising an electric circuit connected to a source of electric current, a liquid level responsive switch for controlling said circuit and connected to and adapted to be actuated by the liquid level in a boiler or tank for closing the electric circuit when the liquid level falls below a predetermined point and for opening said circuit when the liquid level rises to above said point, a conduit connected to a source of water supply and to said boiler, and a normally closed solenoid valve interposed in said conduit and connected to said electric circuit to be energized thereby when the switch is closed for automatically supplying water to the boiler or tank, means adapted to be connected to the boiler or tank and to a second source of water supply for pumping from said second water supply source to refill the boiler or tank, a steam line connecting said means to the boiler or tank, a normally closed solenoid valve interposed in said steam line, and a steam pressure responsive switch interposed in said electric circuit and connected to the steam line and to each of said solenoids for interrupting a circuit to the first mentioned solenoid and for energizing the last mentioned solenoid when said liquid level switch is closed and when the steam pressure in the tank or boiler is above a predetermined point.

2,530,074
CONVEYING AND DISTRIBUTING APPARATUS
Jules T. Parisi, Chicago, Ill.
Application October 28, 1946, Serial No. 706,167
11 Claims. (Cl. 198—185)

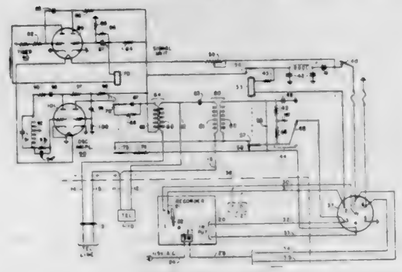
1. In combination, a horizontally travelling conveyor and a second conveyor mounted above it and adapted to move material carried by said first mentioned conveyor transversely of the direction of travel of that conveyor for discharging said material therefrom, together with a hopper positioned to receive the material thus discharged, a motor connected to drive said second conveyor, switch means controlling said motor,

and means in said hopper responsive to the level of material therein and connected to actuate said



switch means for stopping the motor when the material reaches a predetermined level in the hopper.

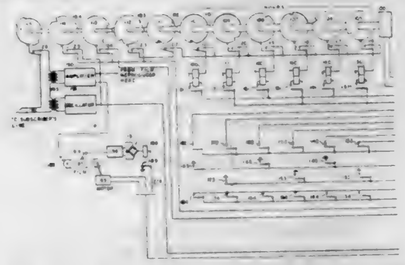
2,530,075
SIGNAL UNIT FOR TELEPHONE CONVERSATION RECORDERS
Edward S. Peterson, Elmwood Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 12, 1948, Serial No. 59,667
9 Claims. (Cl. 179—6)



1. In a signal system, a telephone, a telephone line, a conversation recorder, a signal unit, said telephone, said line, said unit and said recorder being interconnected only electrically, a tone generator and a timer in said signal unit, manually operated means for conditioning said recorder to record a conversation occurring between said telephone and said line, a relay in said signal unit operated responsive only to the operation of said conditioning means, contacts on said relay, a normally short-circuited speech input circuit for said recorder, means including said contacts responsive to the operation of said relay for re-enabling said input circuit and for starting said tone generator and said timer, and means responsive to the operation of said generator and timer for transmitting an intermittent audible signal simultaneously to said telephone, to said line, and to said recorder.

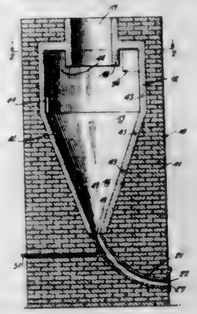
2,530,076
TIME ANNOUNCING SYSTEM
Edward S. Peterson, Elmwood Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 28, 1949, Serial No. 73,303
15 Claims. (Cl. 179—100.3)

1. In an announcing system, a film, a plurality of parallel spaced sound tracks running longitudinally on said film comprising a control sound track and a plurality of announcement sound tracks, a plurality of control signals recorded in said control sound track, a plurality of separate announcements recorded in each announcement sound track in such manner that the announcement sound tracks run in alternately opposite directions, reproducing means associated with the control sound track for reproducing the control signals, a second reproducing means associated with one of said announcement sound tracks for reproducing the announcements recorded therein, reversable driving means for moving the film past said first and second reproducer means and in the direction to reproduce the announcements



in said one announcement sound track, a timer device, means operated under control of said timer device for automatically and intermittently starting said driving means at predetermined times, means operated in response to the reproduction of said control signals for stopping said driving means intermittently, a second means operated under control of said timer device for moving said first reproducing means from said one announcement sound track to another announcement sound track, and a third means operated under control of said timer device for reversing the driving means to cause the film to run in the direction opposite to that direction for reproducing the announcements on said one announcement sound track.

2,530,077
METALLURGICAL FURNACE
Frederick C. Ramsing, Phoenix, Ariz.
Application February 11, 1948, Serial No. 7,624
1 Claim. (Cl. 266—24)



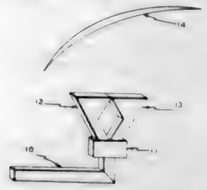
Metallurgical apparatus for heating particles of solid material comprising, a furnace structure having a furnace chamber positioned to have a substantially vertical axis, said furnace chamber being substantially circular in horizontal cross-section and having its walls lined with refractory material, said furnace chamber having a main

portion of greatest diameter adjacent its upper end and having a flue portion of substantially smaller diameter than said main portion communicating centrally with the upper end of said main portion, said furnace chamber also having a downwardly converging portion below said main portion terminating at its lower end in a restricted discharge passage, means for directing a stream of combustible material tangentially into the upper part of said main portion to provide for the production of an outer downwardly spiralling vortex of flame and heated products of combustion heating the walls of said furnace and an inner upwardly spiralling vortex of products of combustion discharging through said flue portion, means for simultaneously directing a stream of particles to be treated tangentially into the upper part of said main portion so that said particles spiral downwardly in said outer vortex adjacent said heated walls and collect in said lower portion of said furnace for removal through said discharge passage, and means for directing a stream of gas upwardly through the particles collected in said restricted discharge passage.

2,530,078
METALLURGICAL FURNACE
Frederick C. Ramsing, Phoenix, Ariz.
Application February 11, 1948, Serial No. 7,625
3 Claims. (Cl. 266—33)

1. Apparatus for fusing finely divided fusible material, which comprises, a furnace structure having an interior wall of refractory material providing a furnace chamber substantially circular in cross-section and having a vertical axis, said chamber having a lower collecting portion for fused material, a main substantially cylindrical portion immediately above said collecting portion and an inwardly converging portion immediately above said main portion merging at its upper end into a flue portion of substantially smaller diameter than said main portion, a nozzle structure adjacent the lower part of said main cylindrical portion arranged to direct a stream of combustible mixture substantially horizontally into the lower part of said cylindrical main portion and tangentially along the wall thereof, said substantially cylindrical portion extending upwardly a substantial distance above said nozzle structure whereby ignition of said combustible mixture produces a rotating vortex of flame moving upwardly adjacent the wall of said main portion, said nozzle structure having means for directing a stream of particles of said fusible material substantially horizontally into the lower part of said cylindrical main portion and tangentially along the wall thereof in the same circumferential direction as said combustible mixture, whereby said particles are carried upwardly in said vortex along the wall of said main portion, said particles are fused and a layer of fused material collects upon the wall of said chamber and runs down into said collecting portion, said converging portion of said chamber causing an increase in the circumferential velocity of the materials in said vortex to separate residual fused material by centrifugal force from the products of combustion and reflecting heat downwardly toward the wall of said main portion and toward the fused material in the collecting portion and means for withdrawing fused material from said collecting portion.

2,530,079
DIRECTIVE ANTENNA SYSTEM
Henry J. Riblet, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 3, 1945, Serial No. 586,417
1 Claim. (Cl. 250—33.65)

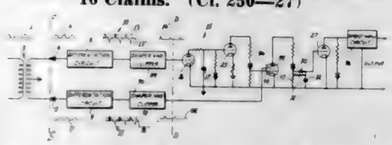


A directive antenna system for microwave energy comprising a paraboloidal reflector and means for illuminating said reflector to provide a sector shaped directive pattern characterized by a major directive lobe having substantially uniform power over a predetermined directive angle comprising a wave guide translating member and a pair of similar radiating horn members symmetrically attached to said guide member, the apertures of said horns being directed toward said reflector and the size and spacing of said apertures being chosen to provide a pair of overlapping directive lobes intersecting each other at their quarter power points.

2,530,080
HALOGENATED AROMATIC COMPOUNDS
Preston Robinson, Williamstown, and Colin C. Reid, Boston, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
No Drawing. Application February 10, 1947, Serial No. 727,738
1 Claim. (Cl. 260—651)

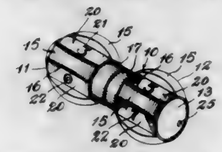
A process for producing predominantly beta-chloroethylpentachlorobenzene which comprises refluxing a mixture of ethylpentachlorobenzene, sulfuryl chloride and carbon tetrachloride in the presence of benzoyl peroxide.

2,530,081
RECEIVER FOR WAVE-LENGTH MODULATED ELECTRIC WAVES
Karl F. Ross, Bronx, N. Y.
Application March 28, 1947, Serial No. 737,907
16 Claims. (Cl. 250—27)



2. A receiver for detecting substantially pure sine waves, comprising an input circuit adapted to receive waves of different frequencies, means for deriving from said input circuit a first train of pulses having a cadence corresponding to the frequency of said waves, a relaxation oscillator responsive to said pulses, means for inverting the output of said oscillator so as to produce a sawtooth wave characterized by decreasing voltages during the leading edge of each sawtooth, a condenser, a normally blocked charging circuit coupling said condenser to the output of said inverting means, means for deriving from said input circuit a second train of pulses having a cadence corresponding to the frequency of said waves but occurring half a cycle after said first pulses, means for unblocking said charging circuit during the occurrence of any of said second pulses, a discharge circuit of high impedance for said condenser, and an output circuit of high impedance connected across said condenser.

2,530,082
CHANCE GAME APPARATUS
Otto A. Roth, Kirkwood, Mo.
Application September 9, 1948, Serial No. 48,480
1 Claim. (Cl. 273—138)

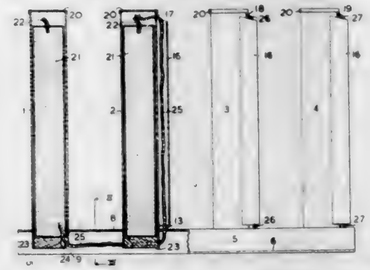


A game apparatus comprising a pair of elongated hollow body members having a closed end and an open end, the open end of one body member having a concave face, the open end of the other body member having a convex face, said faces being in abutting relation, a flexible connection secured within said hollow body members for maintaining said end faces in rotatable contacting engagement when said flexible connection is under twisted tension, each of said body members having longitudinally extended circumferentially spaced ribs, said ribs having an arcuate contour in the longitudinal plane of the body members and radially rounded corners, and a numeral on each of said body members positioned between said ribs.

2,530,083
LOCKING MEANS FOR PINS AND THE LIKE
Eugene Ruch, Farmington, Mich.
Application November 8, 1946, Serial No. 708,770
2 Claims. (Cl. 85—8.5)

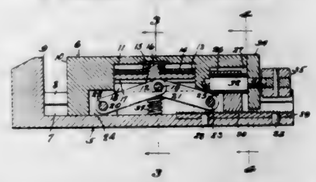
1. Means for locking a transverse pin in a member through which the pin extends comprising a resilient U-shaped clip having a pair of coplanar legs straddling said pin at one end thereof and flexible to separate the same, said end of said pin being circumferentially grooved to fit said legs for interlocking with said legs, said member being provided with a pair of loop-like keepers through which the ends of said clip are inserted crosswise of said pin to hold said clip stationary at opposite ends thereof, said legs having bent portions between said keepers for coaction therewith to prevent withdrawal of said clip out of said keepers.

2,530,084
ILLUMINATING FLARE
Conrad David Schermuly, Alfred James Schermuly, and Charles Schermuly, Parkgate, Newdigate, England
Application April 8, 1947, Serial No. 740,215
In Great Britain April 15, 1946
8 Claims. (Cl. 102—37.7)



1. A flare device, for use in providing an emergency flare-path to illuminate air strips, comprising a base, a plurality of substantially vertical tubular metal casings mounted on said base, a flare candle in each casing, and means for igniting the top of the flare candle in the first casing, in combination with means for igniting the top of the flare candle in each succeeding casing when the flare candle in the next preceding casing has almost burned through, whereby continuous illumination is provided.

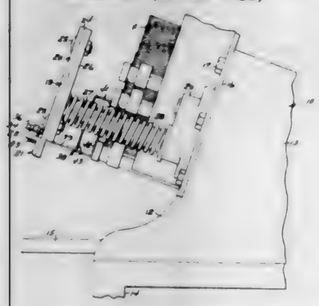
2,530,085
AIR-OPERATED VISE WITH IMPROVED ACTUATOR AND ADJUSTMENT MEANS
Ernest H. Shaff, Spring Lake, Mich., assignor to The Keller Tool Company, Grand Haven, Mich.
Application December 20, 1946, Serial No. 717,431
3 Claims. (Cl. 81—17.2)



1. A vise comprising, in combination, a base having a work-engaging jaw rigid therewith, a body portion supported on and movable longitudinally of the base and carrying a work-engaging jaw in opposed relation to the one on the base, a cam rotatable about an axis fixed with respect to the body portion, a lock member carried by the body portion but longitudinally movable relative thereto, said member being operatively associated with said cam for movement into and

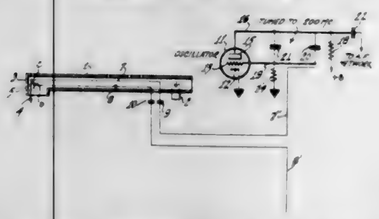
out of locking engagement with said base, a toggle linkage interposed between said body portion and said lock member, and actuator means carried by said body portion and connected to said linkage for extending the same to move the body portion with respect to the lock member and the base and thereby to move said jaws toward each other.

2,530,086
STICK DISPENSER
Nathaniel J. Simpkins, Atlanta, and Donald H. Fischer, Decatur, Ga.
Application August 9, 1949, Serial No. 109,254
3 Claims. (Cl. 226—14)



3. An attachment for a stick-dispensing machine comprising a body member, said body member including a pair of legs operatively connected to the machine, a flange projecting forwardly from said body member and secured thereto, adjustable guide means connected to said flange for insuring correct alignment of a stick holder on the attachment, a baffle connected to said body member, a plurality of support members projecting upwardly from said body member, each of said support members including a back section and a front section arranged in spaced parallel relation with respect to each other, there being a pair of cutouts arranged in said front section for at times supporting therein sticks.

2,530,087
ABSORPTION-TYPE MODULATION SYSTEM
Chester M. Sinnett, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 9, 1945, Serial No. 581,903
8 Claims. (Cl. 179—100.4)

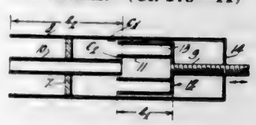


8. A high frequency oscillator system for phonograph record translation and the like comprising in combination, electronic amplification structure provided with input and output electrodes, a tuned high frequency tank circuit coupling said electrodes together to provide oscillations of a predetermined frequency, an electromechanical transducer device provided with a displaceable translating element, a resonant line coupling said transducer device to said tank circuit, said line having one conductor terminating in spaced capacitive coupled relation to an oscillation conducting portion of said tank circuit for causing absorption of oscillatory energy from the oscillator by the line in response to displacements of said translating element and resultant variations in the effective electrical length of the line, and translating means connected to said amplification structure to translate the absorption variation into corresponding electrical signals.

2,530,088
GOLF TEE
Charlie William Smith, St. Louis, Mo.
Application August 12, 1949, Serial No. 109,863
6 Claims. (Cl. 273—33)

1. A device of the character described comprising a body formed of flexible material folded to form a ball-supporting member and a pair of legs and a bracing member of bendable material embedded in the folds of the leg members.

2,530,089
ULTRA HIGH FREQUENCY RESONANT CIRCUIT
Lester C. Smith, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1946, Serial No. 679,973
4 Claims. (Cl. 178—44)

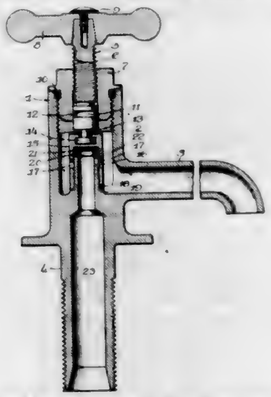


1. A tunable resonant circuit comprising a coaxial line having an outer conductor and an inner conductor terminated therewithin, and a tuning structure axially movable with respect to said line and comprising a tubular outer conductor spaced from and capacitively coupled to said first outer conductor and a coextensive tubular inner conductor within said outer conductors, a direct connection between said tubular conductors at one end, said tubular inner conductor having a hollow end portion at the end opposite said direct connection and facing the termination of said first inner conductor, the cross-section of said tubular inner conductor being sufficiently different from said first inner conductor to permit overlapping without contact therebetween with a consequent capacitive coupling therebetween.

2,530,090
FAUCET WITH NONEXTRUDING SEAL
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application December 20, 1945, Serial No. 636,170
2 Claims. (Cl. 251—27)

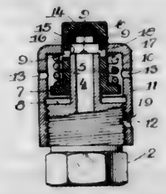
1. In a sealing construction for controlling the flow of fluid through a passage, an upstanding member encompassing the passage and provided with a valve seat at its upper end, a recessed

plunger closed adjacent its upper end and telescopically and slidably mounted upon said upstanding member for longitudinal movement, an inverted cup-shaped resilient sealing member mounted within and closely conforming to the recessed upper end of the plunger and provided with a depending annular flange having a sealing lip at its lower edge adapted to engage the valve seat of the upstanding member when the plunger is moved to closed position, a positive stop against which the lower end of the plunger engages whereby to limit the compression on the sealing member and prevent its being crushed, and one



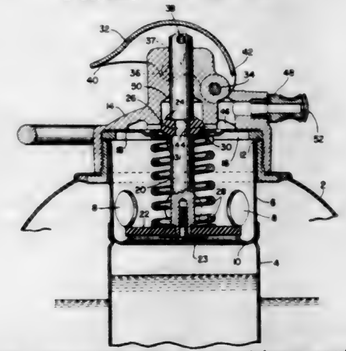
or more discharge ports in the periphery of the plunger intermediate its ends and disposed below and in spaced relation with the sealing lip with these ports adapted to be uncovered by the telescoping upstanding member when the plunger is moved to open position and to be covered by said upstanding member when the plunger is moved to closed position, and the spacing of the lower end of the sealing lip from the ports being such that when moving the plunger to open position, the seal is broken before the ports are uncovered, and when moving the plunger to closed position, the seal is effected after said ports are covered.

2,530,091
PRESSURE RELIEF VALVE
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application February 8, 1946, Serial No. 646,311
8 Claims. (Cl. 137—53)



1. A pressure relief valve comprising a valve body having an inlet, a reduced upstanding tubular part and an encompassing shoulder, a plunger telescopically received on the upstanding tubular part and provided with a flange adapted to engage the shoulder when the plunger is moved to closed position, a resilient sealing element carried in the plunger and having a depending sealing lip adapted to seat upon the upper end of the tubular part, a cap mounted on the valve body and encompassing the plunger, a spring disposed between a part on the cap and the flange on the plunger for normally forcing this plunger into closed position, and relief ports in the plunger and cap, the ports in the plunger being so disposed that the latter must be moved an amount sufficient to carry the sealing element completely away from its seat before the valve is opened.

2,530,092
FLUID CONTAINER WITH VALVE CONTROLLED OPENING
Arthur Smye, London, England, assignor to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware
Application October 5, 1949, Serial No. 119,673
In Great Britain July 29, 1948
4 Claims. (Cl. 169—30)

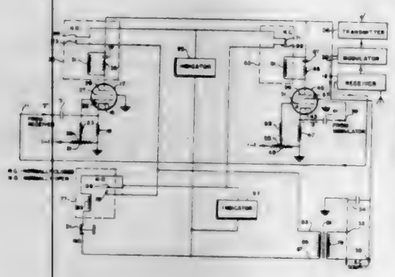


4. In a fire extinguisher comprising a container for fluid, said container having a passage for the discharge of fluid therefrom, the combination of a valve member disposed partly within said container and having a portion extending through an opening to the exterior thereof, said valve member having an element arranged to close said passage when said member is in one position and to seal said opening when said member is in another position, said element being compressible, said container having a part in fixed relation thereto, a spring engaged at one end with said part and at its other end with said valve member normally urging said valve member into the position for closing said passage, means for operating said valve member comprising a hand operated lever pivotally mounted on said container, a link pivotally connected with said valve member and lever, the pivots for said link being at all times above the pivot for said lever and said several pivots being so arranged that said link will be carried through a dead center position upon movement of said lever to carry said element from its passage closing position to its sealing position, said element being compressed upon movement of said link through its dead center position, said spring serving thereafter to urge said lever further in the same direction, and means for arresting such further movement of the lever after said dead center position of the link has been passed.

2,530,093
TRANSPONDER TESTER CIRCUIT
Donald K. Speed, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,081
11 Claims. (Cl. 177—353)

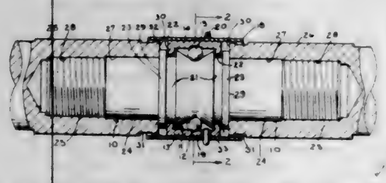
4. A test apparatus for use with a beacon transponder, said transponder including a receiver, a

transmitter, and means for modulating said transmitter in response to signals received by said receiver, comprising a first normally open switching means, a second normally closed switching means, an indicator, a source of voltage; means for serially connecting said first switching means, said second switching means, said indicator, and said source of voltage; means



for effecting a closing of said first switching means in response to a signal from said receiver having a connection for application thereto and means for effecting an opening of said second switching means in response to a signal from said modulator having a connection for application thereto whereby said indicator is energized when said first signal is present and said second signal is absent.

2,530,094
DRAWING ROLL
Frank H. Stearns, Meriden, N. H., assignor, by mesne assignments, to B. B. Sales Company, Lebanon, N. H., a partnership
Application August 3, 1948, Serial No. 42,160
8 Claims. (Cl. 19—141)



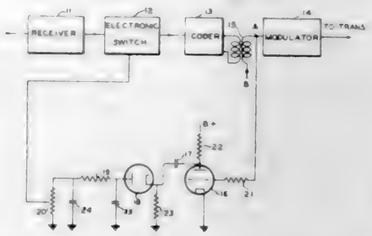
1. In a textile drawing roll having roll sections with axial openings at the opposite ends thereof, and a coupling member in the form of an arbor having longitudinally spaced end portions each of which is adapted to be seated snugly within a respective one of said roll openings; the improvement which consists in the provision of bearing means for rotatably supporting said roll, said bearing means comprising a unitary cylindrical sleeve surrounding an intermediate portion of said arbor between said end portions with the opposite end portions thereof extending over the end portions of the roll sections so as to seal off the bearing area, and rotatable bearing elements disposed between said arbor and said sleeve.

2,530,095
STOVE ATTACHMENT
Curtis T. Stevens, St. Simons Island, Ga.
Application June 14, 1946, Serial No. 676,654
1 Claim. (Cl. 138—45)

A control valve for an air supply conduit of a stove, comprising a conduit provided with an arcuate circumferentially extending slot, said conduit having an upwardly projecting ear disposed adjacent an end of the slot, a valve body, an arm projecting radially from the valve body and pivotally connected to the ear, said arm extending through said slot for swingably supporting the valve body for movement through said slot into and out of the bore of the conduit, a handle projecting outwardly from said valve body and re-

mote to said arm and disposed for movement in said slot for varying the position of the valve body with respect to the conduit bore, said valve body having a cut-away portion forming a restricted passage with a portion of the conduit, when the valve is in a fully closed position, to insure the passage of a limited amount of air through the conduit at all times.

2,530,096
ELECTRICAL CONTROL APPARATUS
Israel H. Sudman, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 27, 1945, Serial No. 580,022
5 Claims. (Cl. 250—2)

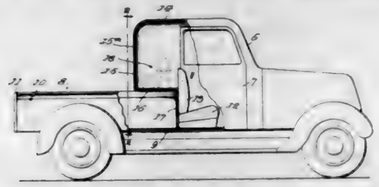


1. A radio beacon system including a receiver, a transmitter, coding means responsive to the output of said receiver for producing at least one pulse for each received signal for modulating said transmitter, and means responsive to said coding means for limiting the duty cycle of said beacon comprising an integrating network, a rectifier interposed between said coding means and said integrating network for unidirectionally charging said network and means for applying the output voltage of said integrating network to cut-off said beacon, when said voltage reaches a predetermined level.

2,530,097
PICKUP DELIVERY TRUCK
Lawrence E. Troth, Chevy Chase, Md.
Application October 4, 1949, Serial No. 119,417
3 Claims. (Cl. 296—24)

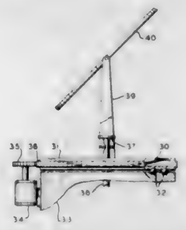
2. In a pickup delivery truck of the type having a closed cab, a seat in said cab with an upstanding back, and an open top body rearwardly of said cab and having upstanding side walls, the upper rear portion of the cab having a compartment rearwardly of the seat and a shelf forming the bottom wall of the compartment overlying the forward end of the open top truck body and spaced above the bottom of the body, and the forward end of the shelf being located below the upper end of the seat back whereby said open

top truck body is available for relatively large and long articles and said shelf constitutes a



support within the cab for fragile and/or perishable articles.

2,530,098
ANTENNA
Lester C. Van Atta, Winchester, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application May 3, 1945, Serial No. 591,743
1 Claim. (Cl. 250—33.65)



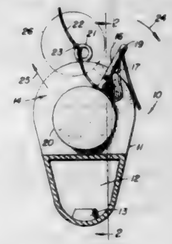
An antenna for a high frequency communication system comprising a paraboloidal reflector arranged with its axis perpendicular to a ground plane, radiating means located at the focal point of said reflector, said radiating means and said paraboloidal reflector being adapted to direct electromagnetic waves of energy vertically upward, a base, a frame rotatably supported on said base and surrounding said reflector, means for rotating said frame and said radiating means in the same direction and at the same speed, a plurality of supporting members secured to and extending upwardly from said frame, and an auxiliary reflector supported by said members near their upper extremities, said reflecting surface comprising a plurality of parallel substantially flat strips of conducting material arranged with their planes parallel to the E-vector of the radiant energy, and wherein the distance between the adjacent strips is not more than half the wave length of the radiant energy, said reflecting surface being disposed at an angle of 45° relative to the latus rectum plane of said paraboloidal reflector whereby said auxiliary reflector is adapted to reflect said upwardly directed radiant energy in a horizontal direction.

2,530,099
ADHESIVE COMPOSITION AND STRUCTURE EMBODYING SAME
Edward C. Van Buskirk and David D. M. Streed, South Bend, and James H. Flood, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 12, 1949, Serial No. 87,032
15 Claims. (Cl. 154—53.5)

12. In combination, a backing material and, secured to said backing material, a laminate formed of laminations of fibrous material impregnated and bonded together with the resinous polymerization product of a mixture of styrene and a polyethylene glycol maleate, said laminate being secured to said backing material by an intermediate layer of an adhesive composition comprising a thermoplastic copolymer of styrene and isobutylene in a ratio ranging from 40 parts of styrene to 60 parts of isobutylene to 60 parts of styrene to 40 parts of isobutylene, a pentaerythritol ester selected from the group consisting of the pentaerythritol and polypentaerythritol esters of rosin acids and phenolic-modified and alpha-

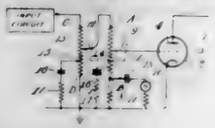
beta unsaturated polycarboxylic acid-modified esters of rosin acids, said pentaerythritol esters being substantially completely esterified, and an ester of hydrogenated rosin selected from the group consisting of ethylene glycol, diethylene glycol, triethylene glycol and glycerin esters of hydrogenated rosin, the amount of said pentaerythritol ester ranging from 5 to 25 parts per 100 parts of said thermoplastic copolymer of styrene and isobutylene and the amount of said ester of hydrogenated rosin ranging from 5 to 25 parts per 100 parts of said thermoplastic copolymer of styrene and isobutylene.

2,530,100
FISHING LINE FLOAT
Clarence D. Vanderpool, Jr., Towanda, Pa.
Application October 17, 1947, Serial No. 780,335
1 Claim. (Cl. 43—17)



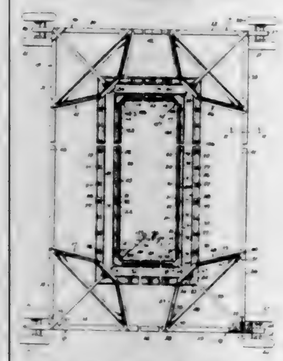
A float of substantially conical form longitudinally having upper and lower portions curved, a weight in the lower portion, the upper portion having a slot extending from its uppermost point to a point substantially midway of the length of the float and completely across the float to divide the upper portion thereof into two substantially equal parts, an eye secured to one of said parts adjacent the uppermost portion thereof and at substantially the center thereof, a shaft extending across the slot and secured to both parts at positions to one side of the longitudinal center of the float, a signalling device having a lever pivotally mounted on said shaft and provided with an enlarged portion at one side of the shaft and within said slot, and a long narrow portion at the other side of the shaft, said narrow portion having an aperture therein, and a line secured to the eye and passing through said aperture, said line being adapted to have a hook attached thereto, whereby a pull on the hook may cause the swinging of the lever so as to move the enlarged portion out of the slot to a position exteriorly of the float.

2,530,101
LOW-FREQUENCY AMPLIFYING CIRCUITS WITH NEGATIVE FEEDBACK
Carel Jan van Loon and Henricus Adrianus Broos, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 10, 1946, Serial No. 668,710
In the Netherlands July 29, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 29, 1961
7 Claims. (Cl. 179—171)



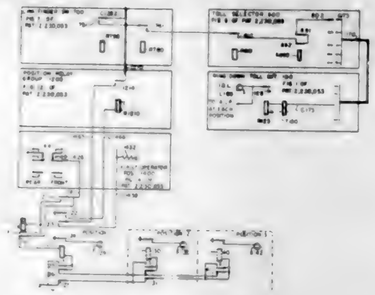
2. An amplifying circuit arrangement comprising a first potentiometer member having a variable tapping, means to apply a signal voltage across said first potentiometer member, a second potentiometer member having a variable tapping, a fixed impedance element having one end thereof coupled to one end of said second potentiometer and having the other end thereof coupled to one end of said first potentiometer, means to couple the other end of the second potentiometer member to the variable tapping of the first potentiometer member, an output circuit coupled to the variable tapping of the second potentiometer, means coupled to said output circuit to apply said signal voltage in negative feedback relationship to the junction of said fixed impedance element and the end of said second potentiometer, means to simultaneously vary the position of the said variable tappings of said potentiometers, and a frequency determining network having one end coupled to an intermediate tap on one of the potentiometer members, and the other end coupled to the junction of the first potentiometer and the fixed impedance element.

2,530,102
PORTABLE FOUNDATION WALL FORM
Richard R. von Bampus, Ringwood, Ill.
Application April 29, 1948, Serial No. 23,962
1 Claim. (Cl. 25—131)



A structure for forming a wall of cementitious material or the like comprising nested quadrilateral shaped forms having a space therebetween for receiving the wall forming material, a pair of bridge members on each form individually secured to an upper edge thereof in spaced relation from a corner, the arrangement being such that a pair of bridge members is provided on each side of the corner and each form supports one of the pair of members, and a carrier bar extending across adjacent form corners with the ends being selectively projected through said bridge members either to engage the bridge members of one form or both simultaneously.

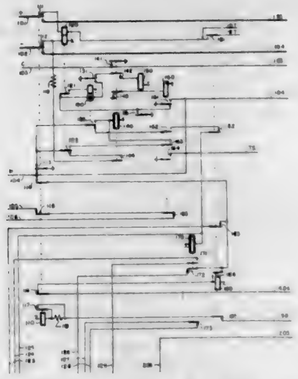
2,530,103
CIRCUIT FOR IDENTIFYING THE TRUNK CONNECTED TO AN OPERATOR'S POSITION
John H. Voss, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 19, 1947, Serial No. 786,986
9 Claims. (Cl. 179—27)



1. In a telephone system, a toll board, a plurality of operator positions at said toll board, a plurality of trunk circuits, each of said trunk circuits being accessible from each of said operator positions for extending a call to a distant station, means controlled from any one of said operator positions for engaging an idle one of said trunk circuits, a group of identity lamps for each of said trunk circuits, each of said groups common to said operator positions, a position identity check lamp and an identity check key individual to each of said positions, means responsive to the operation of one of said identity check keys at said one of said positions for illuminating a particular group of said common identity lamps to identify the trunk circuit engaged by said one position, and means also responsive to said one key operation for illuminating the one of said individual position identity check lamps at said one position.

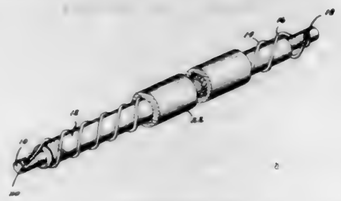
2,530,104
RELAY AUTOMATIC TELEPHONE SYSTEM
John H. Voss, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 1, 1948, Serial No. 36,313
9 Claims. (Cl. 179—18)

1. In an automatic telephone system, a relay type switch, a group relay in said switch, first and second groups of contacts on said relay, two trunk groups each comprising a plurality of trunks accessible to said switch, means in said switch responsive to a calling party dialling a single digit thereto for operating said relay and causing said switch to extend the call through the first group of contacts of said relay to a preselected idle trunk in one of said trunk groups, and means in said switch responsive to a calling party dialling the same digit thereto preceded by a different digit for operating said relay and causing said switch to extend the call through the second



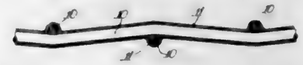
group of contacts of said relay to a preselected idle trunk in the other of said trunk groups.

2,530,105
METHOD OF MAKING A DIVER'S COMBINED HOSE AND ELECTRICAL COMMUNICATION LINE CABLE
Robert Lee Wallace, Jr., Coolidge, Tex., assignor to the United States of America as represented by the Office of Scientific Research and Development
Application December 17, 1945, Serial No. 635,582
1 Claim. (Cl. 154—2.27)



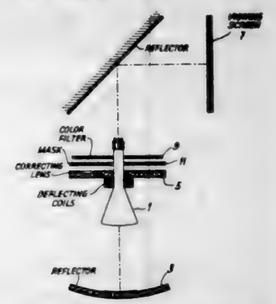
Method of making a combined hose and electrical communications cable comprising the steps: placing an inner tube of indentable elastic insulating material slidably on a mandrel, winding spirally thereon throughout the length of the mandrel at least one metallic conductor wire, applying to the wire during said winding and thereafter a longitudinal tension sufficient to compress the tube to a materially smaller diameter and to embed the said wire at least partially in the tube by deformation of the tube within is elastic limit, thereafter while maintaining said tension applying a rubber-like cement over the tube and wound wire, and while still maintaining said tension, sliding longitudinally and coaxially on to the said tube and the wire so wound thereon a preformed outer tube of indentable elastic material coextensive in length with the inner tube, after so positioning said outer tube releasing the said spirally wound wire from said longitudinal tension to free the same and said inner tube, and permitting the inner tube and spirally wound wire to expand radially with respect to the said outer tube into engagement with the material of the said outer tube by inherent capability of recovery from deformation produced in the winding of said wire under said longitudinal tension and so as to embed the wire at least partially in the outer tube, and removing the article thus formed from said mandrel.

2,530,106
REINFORCED PLASTIC SHEET
Harold Warp, Chicago, Ill., assignor to Flex-O-Glass, Inc., a corporation of Illinois
Application September 14, 1946, Serial No. 696,998
1 Claim. (Cl. 117—138.8)



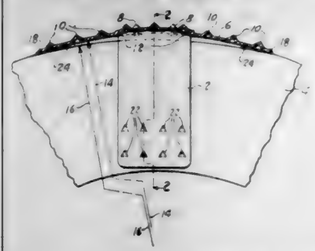
A reinforced sheet material transparent to ultraviolet rays throughout substantially its entire extent, said material comprising an open mesh of polyvinylidene chloride mono-filaments each of which has been pre-stretched when cold and having a tensile strength of 20,000 to 40,000 pounds per square inch, and a coating on said mesh and bridging the spaces between adjacent filaments comprising a transparent copolymer of 10 to 15% by weight of vinyl acetate and 90 to 85% of vinyl chloride, said coating having a modulus of elasticity not less than that of said filaments so that under an applied force the coating will stretch an amount at least equal to that of the netting formed by the filaments, the thickness of the coating on said filaments being generally less than the thickness of the coating bridging the spaces between said filaments.

2,530,107
COLOR TELEVISION RECEIVING SYSTEM
Richard C. Webb, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 10, 1946, Serial No. 689,656
15 Claims. (Cl. 178—5.4)



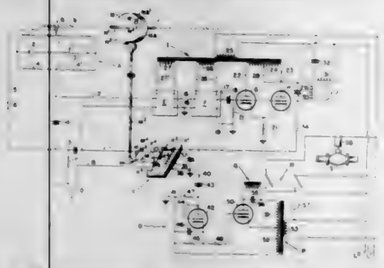
1. In a television image projector of the type employing a light source, a spherical mirror, a correcting plate, and a viewing screen, a component color separation filter system for reproducing images in their natural color comprising in combination a component color separation filter element having sections of the selected component colors and spaced intermediate said light source and said viewing screen, and a mask element adjacent said color separation filter element and having therein opaque and transparent sections, said filter element and said mask element being in different planes and positioned rotatably with respect to each other so as to permit only one of said component colors to intercept light from said light source at any one time.

2,530,108
TRACTION DEVICE
Thomas F. Whichard, Sr., and Carl E. Flodquist, Detroit, and Oscar B. Flodquist, Pleasant Ridge, Mich., assignors to Whichard, Flodquist and Company, a partnership
Application March 11, 1947, Serial No. 733,868
4 Claims. (Cl. 152—225)



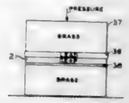
1. In a traction device for a rubber tired vehicle wheel, a spring biased U-shaped holder member encompassing the tread and both side walls of the tire and yieldingly engaging the tire side walls when normally assembled therewith, a flexible arcuate tire shoe secured to said holder member and having a free radius in the plane of the wheel which is less than the outside radius of the tire to which it is adapted to be applied, the said tire shoe end portions extended about the periphery of the tire to either side of the holder member, said tire shoe being flexed under load to engage the outer periphery of the tire throughout its length, said holder member having inwardly projecting tongues engaging the tire side walls, and said tire shoe having a plurality of radially outwardly projecting ground cleats.

2,530,109
MEASURING AND CONTROLLING APPARATUS
Rudolf F. Wild, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 2, 1947, Serial No. 719,746
18 Claims. (Cl. 175—320)



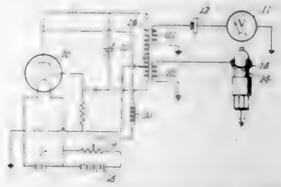
8. Self-balancing potentiometric measuring and control apparatus comprising a circuit network including a bridge circuit with a slide-wire resistor, a slider contact engaging and movable along said resistor, a measuring circuit branch connected between said contact and a fixed point in said bridge circuit and including a source of voltage to be measured and a device for converting a unidirectional current flow in said branch into a relatively low frequency alternating current signal, a reversible motor having a control winding, an electronic amplifying and motor drive system having an input circuit including said device and amplifying said signal, and an output circuit including said control winding, means coupling said input and output circuits for transferring energy from said input circuit to said output circuit and thereby producing a relatively high frequency current flow in said system when the latter is in normal operative condition, a control element, a mechanical connection between said element and said slider contact arranged to adjust said element between on control and off control positions when said slider contact is adjusted between a predetermined normal value position and a lower value position, an electronic valve having an anode, a cathode and a control grid, a fourth circuit in which said anode and cathode are connected, means connecting said output and fourth circuits to maintain a relatively low frequency alternating current flow in said fourth circuit during periods in which said relatively high frequency current flow is flowing in said output circuit, means actuated by said control element to adjust said fourth circuit into and out of a condition in which the relatively low frequency current flow in the fourth circuit creates a high frequency oscillating current flow accordingly as said control element is in its off control or its on control position, and on-off control means including a relay winding energized by the relatively low frequency current flowing in said fourth circuit during periods in which said high frequency oscillations are not created therein.

2,530,110
NONLINEAR CIRCUIT DEVICE UTILIZING GERMANIUM
John R. Woodyard, Garden City, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application June 2, 1944, Serial No. 538,404
11 Claims. (Cl. 175—366)



1. A rectifier comprising a plate of germanium-phosphorus alloy, and a point of hard conducting material in contact with the surface of the plate.

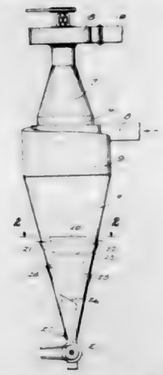
2,530,111
METHOD AND MEANS FOR INDICATING IONIZATION PRESSURE
Max L. Yeater, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Original application October 10, 1944, Serial No. 558,052. Divided and this application April 12, 1950, Serial No. 158,762.
4 Claims. (Cl. 175—183)



2. Apparatus for measuring gas pressure in a sealed-off vessel having metallic elements therein, said apparatus comprising an oscillatory wave generator, output electrodes for said generator,

one of said output electrodes comprising a metallic member disposed externally of said vessel, the other of said output electrodes comprising the elements within said vessel, means for adjusting the frequency of said generator to the point of ionization of the gas contained within the vessel while maintaining the power output substantially constant, and means for indicating the frequency of said generator when said point of ionization is attained as a measure of said pressure.

2,530,112
CENTRIFUGAL CYCLONE SEPARATOR
Gerald D. Arnold, Wauwatosa, Wis.
Application February 7, 1950, Serial No. 142,918
14 Claims. (Cl. 183—85)

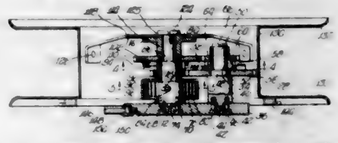


1. A frusto-conical tapering wall provided internally with mutually spaced, discontinuous, spirally pitched thread elements having inner margins arcuate and remote from the axis of said wall, said wall being substantially continuous and adapted for use for confining material in a cyclone type separator and said thread elements being positioned for intermittent action on whirling solids confined within the wall to effect axial movement thereof.

2,530,113
LIQUID DISPENSING APPARATUS
Kenly C. Bugg, Fort Wayne, Ind.
Original application September 4, 1941, Serial No. 409,570, now Patent No. 2,379,785, July 3, 1945. Divided and this application May 24, 1943, Serial No. 488,155
17 Claims. (Cl. 222—26)

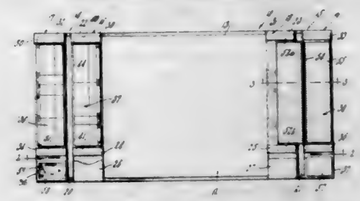
3. In liquid dispensing apparatus, the combination of a pump the suction side of which is adapted to be connected to a source of liquid supply, a motor for operating said pump, a switch for controlling said motor, a meter the inlet side of which is connected to the outlet side of said pump, dispensing means connected to the outlet side of said meter, said meter having a meter shaft rotated in proportion to the liquid passing through said meter, an adjustably settable variator operated by said meter shaft, a distributor operated by said variator, and registering means adapted to continuously register and operated in accordance with the operation of said distributor.

2,530,114
REEL
Kenly C. Bugg and Harry L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg
Application September 1, 1945, Serial No. 613,976
25 Claims. (Cl. 242—107)



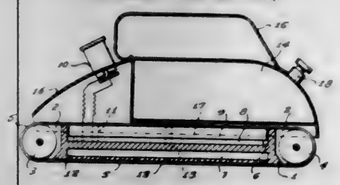
11. In a reel assembly, the combination of a support, a reel rotatably mounted on said support, a drum rotatably mounted on said support, rewind mechanism associated with said reel and support, said rewind mechanism including a spring adapted to be energized by rotation of said drum in an unwinding direction, means interposed between said spring and reel for rotating said drum a greater amount in an unwinding direction than the reel is rotated in said unwinding direction, said last named means being operative, upon deenergizing movement of the spring, to rotate the reel in a rewind direction substantially the same amount as said drum is rotated in a rewind direction.

2,530,115
DESK PAD STRUCTURE
Arthur Cohn, New York, N. Y.
Application August 19, 1946, Serial No. 691,563
2 Claims. (Cl. 120—1)



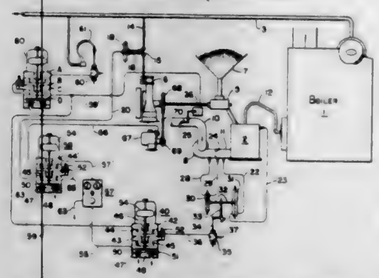
1. In a device of the character described, having a lateral end with a fixed section and a flap section, means hingedly connecting said flap section to said fixed section, whereby said flap section may be swung into superposed position and in juxtaposition to said fixed section; an upper loop and a lower loop arranged on each of said fixed section and of said flap section, carrier means supporting paper sheets, each carrier means being provided with a pair of extensions projecting beyond said paper sheets, upper extension and lower extensions, respectively, said upper extension being, respectively, engageable with said upper loops, said lower extensions being, respectively, engageable with said lower loops, whereby said carrier means may be removably and interchangeably disposed on said flap section and on said fixed section, and means swingably connecting said paper sheets to one another and to said carrier means, one pair of said extensions of said carrier means being smaller in width than the width of each of said upper and lower loops, whereby said one carrier means may slide within their respective loops relatively to the other pair of said extensions, said other pair of extensions being engaged by said upper and lower loops of said flap section and being movable with the latter to open and closed position of said carrier means, respectively, when said flap section is moved to said juxtaposition and said superposed position, respectively.

2,530,116
STEAM IRON WITH WETTING STRIP
Elis Geijer Dahl, New York, N. Y.
Application August 8, 1947, Serial No. 767,573
In Sweden June 21, 1947
4 Claims. (Cl. 38—78)



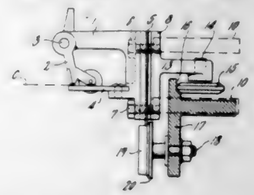
1. A flat iron comprising in combination a body member having a flat ironing bottom face; a wetting strip mounted on said body member so as to be adapted to move along said flat ironing bottom face of said body member during ironing; holding means mounted on top of said body member; a flat water compartment embodied in said body member; a plurality of water distributing openings in said flat ironing bottom face of said body member connected with said flat water compartment in the same; a water container arranged in said body member above said water compartment; a conduit connecting said water container with said flat water compartment; a water and air inlet opening on the top of said water container; manually operable means for air tightly closing said water and air inlet opening on the top of said water container; and heating means embodied in said body member adjacent to said water compartment in said body member for heating said water compartment.

2,530,117
FURNACE FUEL FEEDER CONTROL SYSTEM
Paul S. Dickey, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application April 12, 1948, Serial No. 20,467
11 Claims. (Cl. 236—26)



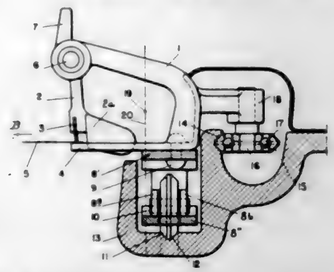
3. A system for variably feeding fuel to the furnace of a steam generating boiler comprising, in combination, a pulverizer communicating with said furnace, means for feeding fuel to said pulverizer, a power unit for driving said feeding means, means discharging air through said pulverizer for carrying pulverized fuel to the furnace, means producing differential pressures separately representative of air flow and fuel flow to said furnace and other means operating to produce a force representative of the relation between such pressure differentials, means driven by said power unit for producing a force representative of the rate of operation of said fuel feeding means, a differential relay subjected to said forces and operative on a change in their differences from a predetermined value for producing a pressure changing continuously in value, means responsive to said pressure for controlling the supply of operating fluid to said power unit, and means responsive to the pressure of the steam generated for controlling the supply of air to said pulverizer.

2,530,118
TENTER
Julien Dungler, Basel, Switzerland
Application July 17, 1948, Serial No. 39,369
In France February 4, 1948
14 Claims. (Cl. 26—57)



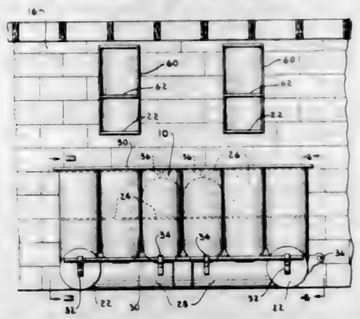
1. A transporting arrangement for cloth engaging members in tenters and like machines having a driving mechanism; comprising an endless flexible support provided with opposite surfaces, said cloth engaging members being disposed spaced apart from each other on one of said surfaces, and operable means anchored to said members and disposed at the other surface of said support, said operable means being adapted to cooperate with said driving mechanism for moving said support together with said members.

2,530,119
TENTERING MACHINE
Julien Dungler, Basel, Switzerland
Application January 27, 1949, Serial No. 73,166
9 Claims. (Cl. 26—57)



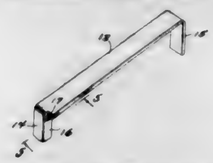
1. In a tentering device, the combination of a gripping device adapted to engage a length of sheet material, with drive means for displacing said gripping device in a predetermined direction, a stationary support, and guide means movably holding said device on said support, said guide means comprising a plurality of rollers positioned in two planes, respectively, and arranged for rotation in said planes, all of said rollers being located at one side of a vertical plane which extends in said direction and passes through the center of gravity of the combined gripping device and drive means, said rollers including a first roller located in the plane of said sheet material when the latter is engaged by said gripping device, said first roller being adapted to absorb the traction from said sheet material, and a second roller extending at a right angle to said first roller.

2,530,120
SIMULATED LOG SERVING BAR
Fern L. Erickson, Berkley, Mich.
Application January 3, 1947, Serial No. 720,091
2 Claims. (Cl. 312—140.1)



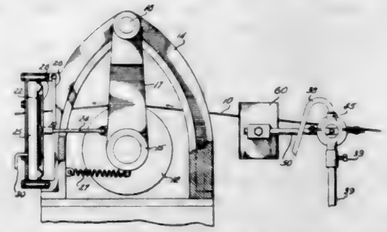
1. An upright structure adapted to form a serving bar comprising, in combination, a floor engaging base formed of a plurality of hollow cylindrical members composed of cardboard material arranged with their axes extending in a horizontal direction and abutting one another to form the bottom of the front and at least one side of a serving bar, a plurality of similarly shaped hollow cylindrical members composed of cardboard material arranged with their axes extending in a vertical direction and abutting one another in side-by-side relationship to form the upright front and at least one side of the serving bar, said vertical axially extending members superimposed upon said base forming members and having the lower ends thereof cut away on opposite sides thereof on transversely extending arcs conforming to the curvature of the base members and seated thereon in overlapping contiguous relation thereto, certain of said vertical axially extending members also being cut away on one side of the serving bar intermediate their ends to form an opening thereinto, a transverse element having a flat upper surface in each of said members so provided with an opening arranged at a level below the opening to form a shelf therein, and a table top bridging the upper ends of said vertical axially extending members along the front and at least one side of the serving bar.

2,530,121
LINE ANCHORING DEVICE
Norman Franklin Garwood, Indianapolis, Ind.
Application March 30, 1949, Serial No. 84,370
1 Claim. (Cl. 33—86)



A line anchoring device comprising an elongated flat rectangular member having a depending integral clamping leg at each end, one of said legs having a flange formed along one of its sides and extending rearwardly therefrom under said member with said flange having a free vertical edge adapted to engage one side wall of a brick and having its upper edge spaced from the under surface of said member to form a wedging slot, the construction being such that one end of the line can be wrapped around the upper end of the flanged leg and wedged in said slot and the line pulled taut to bring the free vertical edge of the flange against the side wall of a brick without pinching the line.

2,530,122
WEB GUIDE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application May 26, 1948, Serial No. 29,203
6 Claims. (Cl. 74—241)

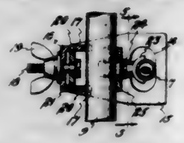


1. In a traveling web guide of the character described, a guide roll, a spherical bearing supporting one end of said roll, a frame, a link pivotally connected to said frame, a spherical bearing in the lower end of said link adapted to receive and rotatably support the opposite end of said guide roll, a chamber-defining member carried by said frame, a diaphragm in said chamber, a pressure rod connecting said diaphragm with said link whereby pressure in said chamber moves that end of the roll rearwardly relative to the movement of said web, a spring connecting said link with said frame and constantly urging the last named end of the roll forwardly along the direction of the movement of the web and against the action of said pressure rod, means to supply pressure slowly to said chamber, a bleed valve adapted to bleed air from the source and from said chamber, a paddle contacting the edge of said traveling web, and means connecting the paddle to said bleed valve whereby movement of the web transversely in one direction bleeds air from the chamber and movement of the web transversely in the other direction closes the bleed valve to permit air to build up in the chamber.

2,530,123
ADJUSTABLE SEWING MACHINE LIGHT
Max Ingwer, New York, N. Y., assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y., a corporation of New York
Application February 16, 1949, Serial No. 76,769
6 Claims. (Cl. 248—124)

1. A universally adjustable lamp for sewing machines comprising a supporting column, a lamp carrying arm in crossed relation therewith, a rotary swivel thrust bearing interposed between said arm and the back of said post and in sliding engagement with both said arm and said post, a thrust yoke having spaced ends slidingly and rotatably engaged over the front of said post, a tension yoke in crossed relation to said thrust

yoke and extending from across the front of said post in back of said arm and having slots rotatably and slidingly receiving said arm and a ten-



sion screw for adjustably drawing the forward ends of said yokes together to thereby clamp said arm to the back of said column through said interposed rotary swivel thrust bearing.

2,530,124
NESTED CUP
Robert J. Kieckhefer, Brookfield, Wis., assignor to American Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 29, 1944, Serial No. 537,833
5 Claims. (Cl. 206—65)

5. A one-piece container of molded pulp adapted to nest compactly with identical containers and yet to be readily freed from any tendency toward frictional retention in nested engagement, said container comprising a generally frustoconical wall of substantially uniform thickness throughout most of its height, and a bottom integral with the wall and having inner and outer surfaces, the said wall flaring upwardly at an angle of approximately seven degrees from its axis and being of substantially uniform thickness for almost all of its height, a portion of said wall having a substantially cylindrical surface in a narrow zone above the inner surface of said bottom merging smoothly with an adjacent frustoconical surface thereof, whereby said container may be drawn from a mold and nevertheless the said cylindrical surface will provide a substantially linear peripheral spacing contact with an identical nested container to permit relative pivotal movement of the nested containers to free them from mutual frictional retention.

2,530,125
4-QUINOLYL AMINO COMPOUNDS AND METHOD FOR THEIR PREPARATION
Charles Edward Kwartler, Albany, and Philip Lucas, Menands, N. Y., assignors to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application June 29, 1946, Serial No. 680,523
23 Claims. (Cl. 260—286)

1. A member of the group consisting of a compound having the formula

$$Y{=}N{-}R{-}CH(Ar)CH_2NHQ$$

wherein Y=N— is a member of the group consisting of (lower alkyl)$_2$N—, piperidino and morpholino, R is an alkylene group having a chain of 2 to 7 atoms wherein the two free valences of said alkylene group are separated by at least two contiguous carbon atoms, Ar is a member of the group consisting of 1 to 2 ringed carbocyclic aromatic radicals and such said aromatic radicals substituted by members of the group consisting of R'—, R'O—, hydroxyl, halogen and tertiary-amino where R' is a hydrocarbon group selected from the group consisting of alkyl, aryl and aralkyl radicals, and Q is a 4-quinolyl radical and salts thereof.

2,530,126
2-(TERTIARY-AMINOALKYL)-2-(SUBSTITUTED-PHENYL) ETHYLAMINES
Charles Edward Kwartler, Albany, and Philip Lucas, Menands, N. Y., assignors to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application June 29, 1946, Serial No. 680,524
9 Claims. (Cl. 260—570.5)

1. A member of the group consisting of compounds having the formula

$$Y{=}N{-}R{-}CH(Ar)CH_2Z$$

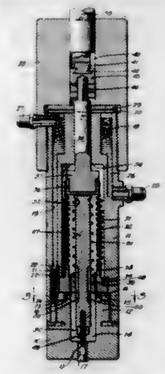
wherein Y=N— is a low molecular dialkylamino radical in which the alkyl groups may be joined to form a heterocyclic radical of the group consisting of piperidines and morpholines, R is an alkylene group having 2 to 7 atoms wherein the two free valences of said alkylene group are separated by at least two contiguous carbon atoms, Ar is a member of the group consisting of halophenyl, dihalophenyl, hydroxyphenyl and alkoxyphenyl and Z is a member of the group consisting of primary amino, guanido and ureido groups.

2,530,127
SUPPOSITORY CONTAINER AND MOLD
André Auguste Jules Kubik, Paris, France
Application August 6, 1947, Serial No. 766,849
In France August 14, 1946
1 Claim. (Cl. 206—56)

A multiple suppository mold and container comprising a longitudinal member formed from material of the type of gelatine and having a substantially concave transverse section, a plurality of container-molds formed in said member and having their openings disposed substantially along the longitudinal axis on one surface of said member and at substantially the lowest portion of the concavity thereof, sealing means for the openings of said container molds comprising a tape sealed to said surface adjacent to said openings and having a section substantially conforming to that of said member, and gripping means for said sealing tape comprising an extending portion of at least one end thereof.

2,530,128
FUEL INJECTOR
William H. Mashinter, Chicago, Ill.
Application May 29, 1944, Serial No. 537,793
22 Claims. (Cl. 103—148)

1. In an injector, the combination of a housing having a chamber connected to an inlet and an outlet, a second chamber connected to said first chamber, a valve controlling flow from said first chamber to said second chamber, a movable member in said second chamber, a flexible bellows connected at one end to said movable member and connected at the other end to said housing so that it communicates with said second chamber, a nozzle having a nozzle valve controlling egress from said second chamber, a connec-



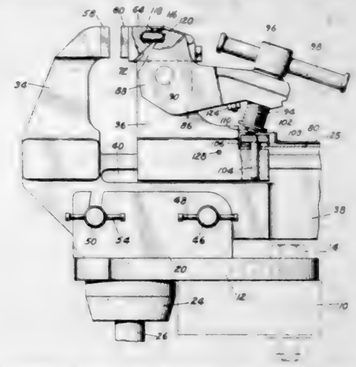
tion adapted to be associated with a source of pressure supply for pulsating said bellows to control the nozzle valve, a closure cap for said housing, and a member having a seal ring extending into said housing to control movement of said bellows.

2,530,129
DRYING GASES
James H. McAteer, Cranford, Charles E. Morrell, Westfield, James K. Small, Union, and Howard L. Yowell, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 2, 1944, Serial No. 566,404
7 Claims. (Cl. 183—114.2)

3. In a process for drying, by means of an oxide gel, an industrial gas which is chemically altered by contact with the gel, the improvement which comprises treating the oxide gel with a small amount of a hydrogen halide whereby the catalytic activity of the oxide gel toward the gas is substantially reduced.

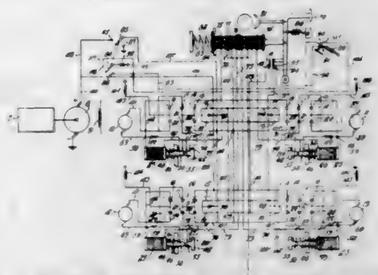
2,530,130
QUICK-ACTING VISE HAVING ROCKABLE LEVER FOR SEQUENTIALLY POSITIONING AND ADVANCING SLIDABLE JAW
Burton H. Parker, Detroit, Mich.
Application August 14, 1947, Serial No. 768,683
6 Claims. (Cl. 81—26)

1. In a vise, a normally stationary body having a fixed jaw, a second body slidably mounted on the first body for translational movement toward and away from the fixed jaw and capable of being locked in adjusted position, a movable jaw mounted on said second body in opposed relationship to the fixed jaw and for straight line movement relative to the second body toward and away from the fixed jaw, a lever pivotally connected to said second body for swinging movement about an axis extending transversely to the respective paths of movement of the second body and the movable jaw and provided with a part disposed on the side of said movable jaw opposite to the fixed jaw, and an element interposed between the movable jaw and said part of the lever and bearing thereagainst so that the element is capable of rocking movement relative to the movable jaw and said part of the lever



as it converts the angular movement of the lever to the straight line motion of the movable jaw.

2,530,131
DYNAMIC BRAKING CONTROL SYSTEM
Herbert C. Roters, Kew Gardens, N. Y., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application March 11, 1948, Serial No. 14,333
17 Claims. (Cl. 318—261)

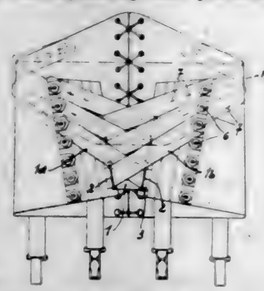


1. A dynamic braking control system comprising a series motor and means for switching said motor to generator action including a variable resistance load across the terminals of the same of low enough value to make the total circuit resistance less than the critical resistance of the machine operating as a generator to thereby enable quick build-up of the machine as a generator without field boosting and said resistance load including means for adjusting the same to a minimum when initially introduced and for automatically increasing resistance of the same under influence of the current generated to limit the current to a predetermined value.

2,530,132
ORTHOPEDIC CORSET OR GIRDLE
André Silvain, Roubaix, France
Application April 16, 1947, Serial No. 741,817
In France November 13, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 13, 1965
1 Claim. (Cl. 2—43)

In an orthopedic corset comprising a pair of laterally spaced front corset sections having corresponding oppositely located eyelets attached to the facing edges thereof forming opposite pairs, the combination of a plurality of elastic

straps threaded through said eyelets and extending between said front corset sections with each strap threaded through two of the eyelets located on each side and at substantially the same height and each of said straps including a horizontal central strap portion extending between the eyelets to interconnect said corset sections; and two corresponding end portions on each



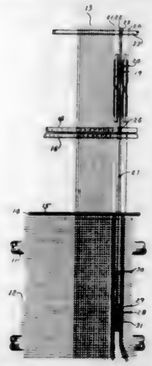
strap doubled back beyond the corresponding eyelets from which said end portions issue and mutually crossing, with each of the end portions on said straps extending obliquely upward toward the respectively opposite front corset section; and adjustable means for independently attaching the end portions on said straps to said front corset sections.

2,530,133
ILLUMINATING DEVICE FOR UNIFORMLY AND DIFFUSELY ILLUMINATING A BACKGROUND
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application June 8, 1946, Serial No. 675,373
4 Claims. (Cl. 240—51.11)

4. In a device of the class described, means for providing a substantially uniformly illuminated background comprising a concave substantially semicylindrical light-diffusing surface, a tubular fluorescent lamp extending along and coextensive with a longitudinal edge of said semicylindrical surface in such a manner that said edge longitudinally bisects said lamp, and means for variably dimming the light rays emanating from said lamp, said means including a pair of telescoping tubes slidably mounted on the lamp for longitudinal relative movement, said tubes being provided with registerable transverse open slots evenly disposed across said longitudinal edge whereby the intensity of illumination on said surface may be varied.

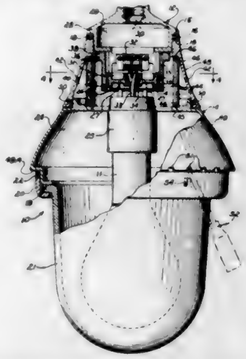
2,530,134
CLOTH CUTTER
Ralph B. Taylor, Sr., East Cleveland, Ohio, and Robert Whewell, Jr., New Bedford, Mass., assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application April 1, 1948, Serial No. 18,468
15 Claims. (Cl. 139—54)

1. In a weaving loom of the type having a cloth beam and a heddle harness with heddle eyes for ordinary warp threads and in which spaced binding threads are wound on the weft threads, a cloth-cutter comprising in combination with a heddle eye located in a position between the position of the spaced binding threads, a weft-cutting blade having mechanism for reciprocating it, a blade guide in the form of an elongated member having an eye at one end and a slot at the other end receiving said blade, and a guiding cord



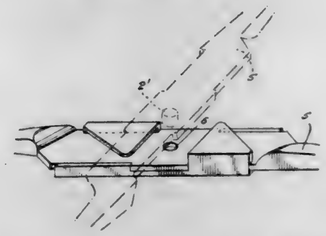
secured at one end to the eye in the blade guide and at the other end to a point in back of the heddle harness, and threaded through said heddle eye whereby the cord and the blade guide are woven into the cloth but remain stationary as the cloth advances and is wound on the cloth beam, and the reciprocating blade is guided between the binding threads to sever the cloth therebetween unaffected by unevenness in the weaving or in the cloth edges.

2,530,135
VENTED EXPLOSION-PROOF LIGHTING FIXTURE
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, Chicago, Ill., a corporation of Illinois
Application May 7, 1948, Serial No. 25,731
7 Claims. (Cl. 240—11.2)



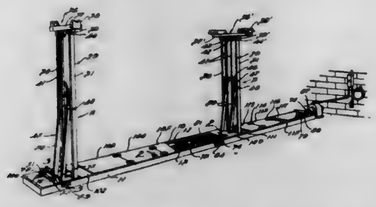
1. An explosionproof lighting fixture having terminal and lamp chambers therein and comprising, in combination, a housing, a first porous metallic wall totally enclosed within said housing and interposed between said terminal and lamp chambers, said first porous metallic wall being adapted to permit the dissipation of gas pressure from the former into the latter, and a second porous metallic wall also totally enclosed within said housing but located so as to block off direct communication between the lamp chamber and the exterior of said housing, said second porous metallic wall being adapted to conduct gas under pressure from the lamp chamber into the atmosphere surrounding said fixture while precluding the leakage of flame from said lamp chamber.

2,530,136
DISMOUNTABLE ARTICULATING PART FOR SURGICAL OR OTHER INSTRUMENTS
Henri van Steenbrugghe, Paris, France
Application May 17, 1947, Serial No. 748,710
In France June 18, 1946
9 Claims. (Cl. 287—64)



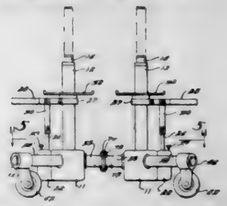
1. A connecting member for the operating arms of surgical and other instruments, comprising in combination, an oblong base plate; a lug including a part arranged substantially at right angles and adjacent to one longitudinal edge of said plate and a substantially triangular part arranged parallel to said plate; and an abutment arranged at the other longitudinal edge of said plate opposite to said lug.

2,530,137
COMBINED HOISTING APPARATUS AND AUTOMATIC COVER STRUCTURE THEREFOR
David A. Wallace, Grosse Pointe Farms, Mich.
Application April 20, 1949, Serial No. 88,652
10 Claims. (Cl. 254—89)



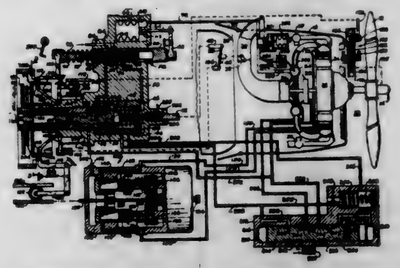
1. Hoisting apparatus comprising a base portion having a recess therein provided with an open top side portion, a boom member shiftable through said open top side portion from a lower position mainly within said recess to an elevated position exterior of said recess, and a cover normally closing said open top side portion of said recess comprising pivotally connected plates engageable by said boom member and swingable relative to each other by the raising and lowering action thereof to uncover said open top side portion of said recess during movement of said boom member both into and out of said recess.

2,530,138
JACK
Paul Eugene Wallace, Omaha, Nebr.
Application November 22, 1946, Serial No. 711,648
6 Claims. (Cl. 254—89)



2. A pair of individually operable jacks each comprising a lifting head, a base portion, at least three leg elements secured to each base portion, rotatable means associated with each leg element and supporting said leg element, a second means associated with each base portion for elevating one of said lifting heads, and a third means for selectively connecting a leg element of one of said jacks to a leg element of the other of said jacks, said third means being operable to connect said leg elements upon removal of the rotatable means associated with said connected leg elements.

2,530,139
POWER CONTROL
Francis J. Wiegand and Duis W. Meador, Ridgewood, N. J., assignors to Wright Aeronautical Corporation, a corporation of New York
Application August 24, 1946, Serial No. 692,908
27 Claims. (Cl. 123—25)

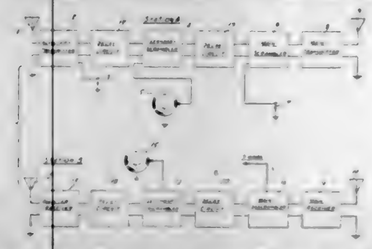


1. A control system for an engine, said system comprising a valve for controlling the engine intake air, a member movable to vary the position of said valve, regulating means automatically responsive to changes in the engine intake air pressure for moving said member to maintain a predetermined engine intake air pressure, a three dimensional cam movable to set the pressure maintained by said regulating means, means connecting said member to said cam for moving said cam along one path in response to movements of said member, and manually operable means for moving said cam along another path.

2,530,140
SECRET SIGNALING SYSTEM
Carl Edward Atkins, Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application August 11, 1944, Serial No. 549,015
11 Claims. (Cl. 250—6)

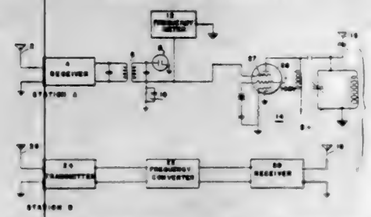
1. The method of secret signaling from one station to a plurality of other stations which

comprises varying energy capriciously, transmitting such capriciously varying energy to all of the stations, scrambling such received energy at each station in an identical manner, scrambling signal intelligence at the one station with the scrambled capriciously varying energy to



form a signal mixture, transmitting the signal mixture to each of the other stations and finally at each of the other stations unscrambling the received signal mixture with the scrambled capriciously varying energy.

2,530,141
ELECTRONIC DISTANCE INDICATOR AND THE LIKE
Carl Edward Atkins, Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application September 22, 1944, Serial No. 555,298
4 Claims. (Cl. 343—13)



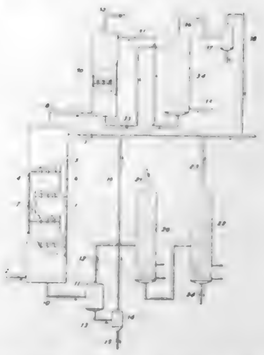
3. A system for determining the distance between stations comprising at one station a receiver, a load network therefor, a diode connected in series with said network, having a known time constant, a transmitter including a tube having a suppressor grid connected to said network for suppressing operation of the transmitter when said diode passes current and at the other station a receiver for receiving energy from the transmitter of the first station, a frequency converter connected to said second receiver, and a transmitter connected to said converter for retransmitting to the first station energy received therefrom whereby end-to-end oscillation is set up in the system, and frequency determining means connected with said network.

2,530,142
SECRET SIGNALING SYSTEM
Carl Edward Atkins, Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Original application August 11, 1944, Serial No. 549,015. Divided and this application February 7, 1950, Serial No. 142,888
2 Claims. (Cl. 250—6)

1. A secret signal system for transmission of signal intelligence from a transmitting station to receiving stations which comprises a source of noise energy, means rendering such noise energy available at each station, like means at the transmitting station and at a receiving station for creating energy varying in a predetermined manner, a scrambling device at each station for scrambling noise energy from said source with said predeterminedly varying energy, means at each station connected to said scrambling device for converting the output thereof into energy impulses, means at the transmitting station for scrambling signal intelligence with the pulses delivered by said last mentioned means, a transmitter and an-

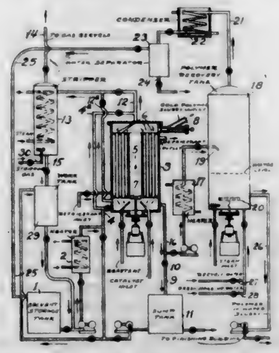
tenna at the transmitting station for radiating the scrambled signal, means at a receiving station for receiving the scrambled signal transmitted from the transmitting station, an unscrambling device at the receiving station actuated by the impulses delivered by the converting means at that station and by the received scrambled signal and means associated with said devices for compensating for transit time of said noise energy and of said radiated scrambled signal whereby said last mentioned device yields the signal introduced at the transmitting station.

2,530,143
RECOVERY AND UTILIZATION OF OLEFINS BY AN ABSORPTION-ALKYLATION PROCESS
Charles Ovid Baker, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 27, 1945, Serial No. 618,972
4 Claims. (Cl. 260—683.4)



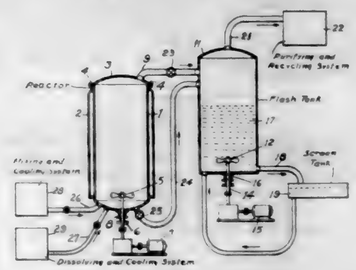
1. The process for the recovery and utilization of light normally gaseous olefins from gaseous streams of C_3 and lighter hydrocarbons containing substantial proportions of such olefins in admixture with substantial proportions of light normally gaseous paraffins which comprises introducing a homogeneous, single phase solution of an isoparaffin of the class consisting of C_4 and C_5 isoparaffins having dissolved therein from 0.1 to 4.0 mol percent of aluminum bromide into the upper portion of an absorption column, introducing the gaseous stream into the lower portion of the absorption column for countercurrent contacting with the liquid isoparaffin, regulating the rate of introduction of the gaseous stream so that at least 2 mols of isoparaffin are introduced into the column per mol of olefin introduced, maintaining a temperature at which alkylation of the olefins with the isoparaffin will occur, maintaining a pressure sufficient to substantially retain the isoparaffin in the liquid phase at the operating temperature but below that at which substantial condensation of C_3 paraffins will occur, withdrawing the gaseous overhead from the absorption column, recovering the liquid effluent from the bottom of said absorption column consisting essentially of said aluminum bromide in solution in alkylate product and isoparaffin containing absorbed C_3 and lighter paraffins and any unreacted C_3 and lighted olefin, recovering the alkylate product, recycling the dissolved aluminum bromide in solution in isoparaffin to the absorption column, passing the gaseous overhead through a second absorption column countercurrent to an essentially paraffin hydrocarbon oil having an average molecular weight considerably in excess of that of the isoparaffin, stripping the absorbed isoparaffin from the rich absorption oil effluent from the second absorption column, and recycling the stripped isoparaffin to the first absorption column.

2,530,144
CLEANSING OF POLYMERIZATION REACTORS
John H. Bannon, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 29, 1944, Serial No. 570,449
8 Claims. (Cl. 260—85.3)



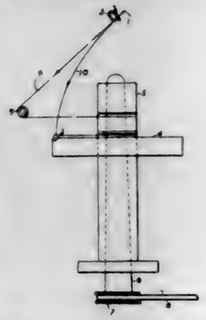
1. In a continuous process for the manufacture of solid polymers which comprises a polymerization cycle of 16 to 52 hours wherein an isoolefin of from 4 to 8 carbon atoms per molecule, a diluent and a solution of a Friedel-Crafts catalyst dissolved in a solvent which does not freeze at reaction temperature and which does not form a complex with the catalyst are continuously supplied to a reactor which is substantially filled thereby while maintaining the contents of the reactor at a temperature below —40° C. by continuously supplying a suitable refrigerant in indirect heat exchange relation to the reactants, and continuously withdrawing a slurry of solid polymer particles in cold reaction liquid from the reactor, the improvement comprising the steps of stopping the addition of catalyst solution to the reactor when the surfaces of the reactor become fouled with polymer, cutting off the supply of refrigerant, cutting off the supply of fresh feed to the reactor, introducing a suitable solvent for the polymer in heated condition into the reactor substantially filled with residual reaction mixture and thereby displacing the residual reaction mixture, circulating the heated solvent in the reactor until the polymer fouling the surfaces of the reactor is dissolved, withdrawing the polymer-containing solvent from the reactor, flushing the reactor with fresh solvent, and resuming the supply of reactants, diluent and refrigerant to the reactor and thereafter resuming the supply of catalyst when the reactor contents are cooled to the reaction temperature whereby the polymerization cycle is re-commenced.

2,530,145
PROCESS FOR EMPTYING BUTYL RUBBER REACTOR
Robert W. Benoliel, Menlo Park, Calif., and Bryan W. Flanagan, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 23, 1948, Serial No. 50,848
7 Claims. (Cl. 260—85.3)



1. In a low temperature polymerization process for the production of elastomers wherein a cold olefinic feed mixture of isobutylene and a multiolefin of 4 to 14 carbon atoms is fed into a closed reaction zone at a temperature between —40° C. and —164° C. and polymerized by the application to the feed mixture of a stream of a Friedel-Crafts catalyst in solution in a low freezing non-complex forming solvent so as to form a cold slurry of polymer particles in unpolymerized feed, which polymer slurry is withdrawn from the reaction zone, the improvement which comprises cutting off the catalyst stream when the walls of the reaction zone become undesirably coated with a film of polymer, withdrawing the cold polymer slurry from the reaction zone and introducing into said zone the feed mixture at a temperature between —30° C. and +40° C., maintaining the reaction zone substantially filled with the warm feed mixture under a pressure within the range between 10 and 80 pounds per square inch until the adherent polymer is solvated, and forcing a liquid stream of warm feed mixture including the solvated polymer from a bottom portion of the reaction zone under the developed pressure.

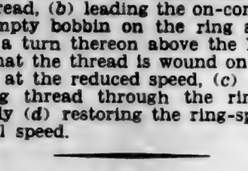
2,530,146
COLLECTION OF ARTIFICIAL YARN ON RING SPINDLES
Sydney Warren Barker, Colne, England, assignor to Lustrafil Limited, Nelson, England
Application November 24, 1948, Serial No. 61,773
In Great Britain November 27, 1947
3 Claims. (Cl. 57—75)



1. A method of commencing the winding of rapidly delivered thread on ring-spindle bobbins which comprises (*a*) reducing the drive of the ring-spindle to such a rate that the peripheral speed at the surface of the bobbin approaches but does not exceed the linear rate of delivery of the thread, (*b*) leading the on-coming thread to the empty bobbin on the ring spindle and giving it a turn thereon above the level of the ring so that the thread is wound on the bobbin revolving at the reduced speed, (*c*) passing the on-coming thread through the ring-traveller, and finally (*d*) restoring the ring-spindle drive to normal speed.

2,530,147
ALKYLENE POLYAMINE DERIVATIVES
Frederick C. Bersworth, Verona, N. J.
No Drawing. Application March 27, 1947, Serial No. 737,725
8 Claims. (Cl. 260—404.5)

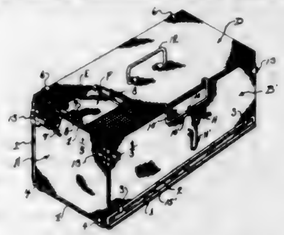
1. A compound having the formula



wherein Alk is an alkylene radical of the group consisting of ethylene and propylene, *n* is a positive integer not greater than 2, *m* is one of the group consisting of zero and a positive integer, M is selected from the group consisting of hydrogen and alkali metal, and A and A' are hydrocarbon radicals containing together at least 10 carbon atoms and having not more than two of their hydrogen atoms replaced by a carboxylic radical of the group consisting of —COOH, —COOM' and —COOR, M' being an alkali metal and R being the radical of an esterifiable alcohol ROH.

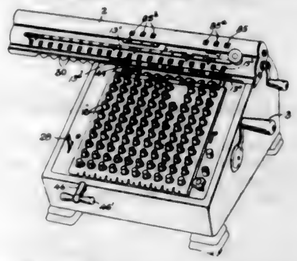
2,530,148
COLLAPSIBLE CAGE OR LIVE BOX
Edsel T. Bjorklund, Edgar C. Bjorklund, and Carl S. Bjorklund, Milwaukee, Wis.
Application April 19, 1947, Serial No. 742,538
1 Claim. (Cl. 119—17)

A live box having a bottom panel comprising a rectangular screened sheet, a rod binder therefor, a reinforcing offset rod extending from and paralleling one stretch of the rod binder to form a slotted mouth having a false solid bottom sheet slidable therein, the solid sheet being provided with an upturned lip adapted to close the mouth, other similar side and end panels having rod binders in hinge connection with three sides of



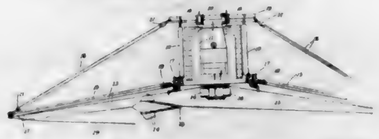
the bottom rod binders, another similar panel being in hinged connection with the offset reinforcing rod of the bottom panel, clips for locking the sides and end panels together and a cover panel in hinged connection with one of the side panels.

2,530,149
CALCULATING MACHINE
Edwin F. Britten, Jr., Short Hills, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application June 28, 1944, Serial No. 542,490
1 Claim. (Cl. 235—63)



In a calculating machine, a denominationally shiftable carriage, totalizer wheels thereon, comprising a first group of four wheels two alternate of which have each twelve teeth numbered 0, 1, 2, 3, 4, 5, 0, 1, 2, 3, 4, 5, and two carry pins and the other two of which have each ten teeth, a second group of three wheels one of which has twelve teeth numbered 0, 1, 2, 3, 4, 5, 0, 1, 2, 3, 4, 5, and the other two of which have each ten teeth, a third group of wheels intermediate the first and second groups and each of which has ten teeth and a fourth group of wheels to the left of said second group and each of which has ten teeth, the ten tooth wheels being each numbered 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and having each a single carry pin, a unitary keyboard having a first group of four rows of keys ordinally relatable to said first group of wheels, a second group of three rows of keys of said first group with certain additional keys ordinally relatable to said second group of wheels, and a third group of rows of keys ordinally relatable to said fourth group of wheels, the first and third and the second and fourth groups of wheels being respectively ordinally relatable to the first and third and the second and third groups of keys in accomplishing the solution of a single problem, the carriage being positionable to bring certain members of the second and fourth groups of wheels out of ordinal relationship with the first, second and certain of the members of the third groups of keys, the carriage being further positionable to bring certain members of the first and third groups of wheels out of ordinal relationship with all of said keys with exception of the lowest order of the keyboard, means effective to arrest the carriage and lock it against movement in either direction in the last-named carriage positioning, means for releasing the locking means, and means comprising part of the last-named means effective to arrest the carriage at the end of two denominational shifts to the right in both of the two last-named carriage positionings.

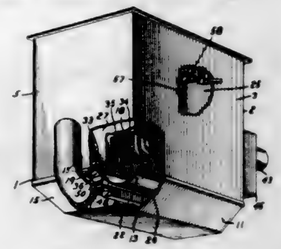
2,530,150
DRAGLINE EXCAVATING APPARATUS
George E. Bryant, Rydalmere, New South Wales, Australia, assignor to R. G. Letourneau, Inc., Stockton, Calif., a corporation of California
Application December 18, 1946, Serial No. 716,913
In Australia December 21, 1945
2 Claims. (Cl. 37—116)



1. An excavating apparatus comprising the combination with a tractor, of an upstanding frame fixed to the tractor, an outwardly projecting boom on each side of the frame, a universal connection between the inner end of each boom and the frame, a double acting power winch on the tractor, a pulley at the outer end of each boom, a scoop, a cable secured to each end of the scoop and reeved through one of said pulleys and connected with the power winch, the latter being operative to alternately pull on and release such cable, and separate cable means connected with the outer end of each boom and operative to support such boom and to effect adjustment thereof about the universal joint to selectively different positions; said last named means comprising a winch on each side of the frame, a pulley on the frame above each winch, a cable extending from each such last named winch about the pulley above and thence to and being anchored on the outer end of the corresponding boom, another frame on the tractor spaced lengthwise thereof from the first named frame, a pair of winches mounted on said last named frame, a pulley on said last named frame laterally out from each of said last named winches, and a cable secured to each of said last named winches and reeved through one of the last named pulleys and extending thence to a connection with one of the booms at its outer end.

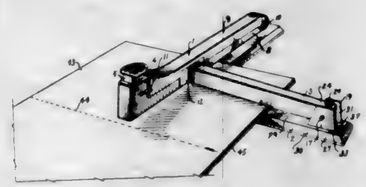
2,530,151
FLOOR FURNACE
William C. Coleman, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application June 16, 1947, Serial No. 755,001
9 Claims. (Cl. 126—116)

1. In a furance of the character described, an open top outer casing having a closed bottom, a heating unit in the outer casing having a combustion chamber, an inner casing having walls spaced from walls of the outer casing to provide downflow air passageways and surrounding the heating unit to provide upflow passageways around said heating unit in connection with the downflow passageways, a false bottom member cooperating with the bottom of the casing for providing an air supply chamber and having means for supplying combustion supporting air to the combustion chamber of the heating unit and having sides engaging said outer casing bottom below the air passageways for forming the bot-



tom of said passageways and to direct air from the downflow air passageways to the upflow air passageways, and a duct having an inlet located exteriorly of said outer casing at a point substantially above said bottom and having outlet into said air supply chamber for conducting combuston supporting air into the air supply chamber.

2,530,152
STAPLING MACHINE
Dorsey D. Corwin, Kansas City, Mo.
Application April 30, 1949, Serial No. 90,720
6 Claims. (Cl. 1—3)

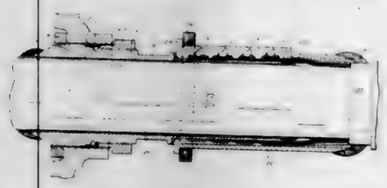


1. In a stapling device, a substantially T-shaped base, an anvil adjacent one end of the cross of the T-shaped base, a staple driving mechanism spaced above and in alignment with the cross of the T-shaped base, the discharge of said staple driving mechanism being in alignment with the anvil, and means on the staple driving mechanism extending laterally thereof and having a free end pivoted to the base.

2,530,153
FLUID-TIGHT JOINT FOR USE BETWEEN THE PARTS OF AN ELECTRIC CABLE SYSTEM
Edward Leslie Davey, Hale, and Frederick Reginald Credland, Audenshaw, England, assignors to W. T. Glover & Company Limited, Trafford Park, Manchester, England, a British company
Application August 26, 1948, Serial No. 46,204
In Great Britain September 5, 1947
6 Claims. (Cl. 174—77)

6. Means for making a fluid tight joint between the sheath of an electric cable and a member formed with an aperture, having an inner cylindrical surface, through which said cable passes, comprising in combination a tubular deflecting member provided with means for attaching it in

a fluid tight manner to the cable sheath and with a tubular extension adapted to be attached to the armouring of the cable and having an outer surface which includes a conical part, a ring-shaped compressing member coaxial with and movable axially relative to said deflecting member towards and away from said conical part thereof and a flexible sealing ring coaxial with said deflecting member and partly surrounding



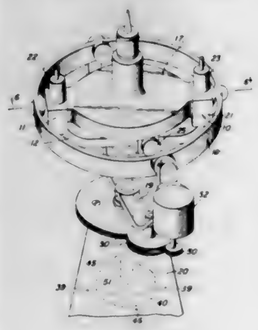
said conical part, said sealing ring being made of a metal harder than the material of said apertured member through which the cable passes, having a cross section substantially greater in its length parallel to its axis than its radial thickness and being adapted, when compressed axially between said compressing member and said conical part, to be deflected radially outwards by said conical part to bite into the inner cylindrical surface of said aperture.

2,530,154

STABLE VERTICAL ELEMENT

Arthur P. Davis, New York, N. Y., assignor to Arma Corporation, Brooklyn, N. Y., a corporation of New York

Application September 28, 1945, Serial No. 619,224
20 Claims. (Cl. 74—5.44)



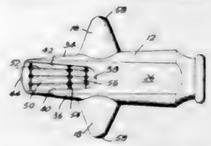
1. In a stable element having a universally supported vertical axis gyroscope, an erecting system thereon including a pair of communicating receptacles mounted at opposite sides of the gyroscope and containing a liquid displaceable in response to acceleration of the gyroscope support, and means for rotating said gyroscope support and system continuously about a substantially vertical axis, the combination of means responsive to acceleration of the gyroscope support, mechanism for regulating the displacement of the liquid in said system in response to said acceleration while permitting substantially free flow of the liquid between said communicating receptacles, and operative connections between said means and said mechanism for compensating for the effect of acceleration on said system.

2,530,155

TONE AMPLIFIER FOR MUSICAL INSTRUMENTS

Albert De Luca, New York, N. Y.

Application November 25, 1949, Serial No. 129,221
7 Claims. (Cl. 84—383)



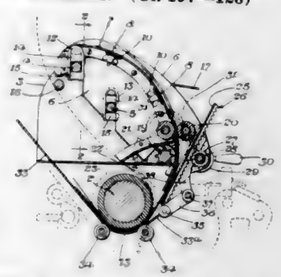
1. A mouthpiece for use with single reed woodwind musical instrument, comprising a tone chamber, a mouth engaging portion and a plurality of supplemental chambers each extending laterally of the longitudinal axis of the tone chamber, said supplemental chambers being adapted to vary the tone quality by permitting greater turbulence and a sustained tone coming from said musical instrument.

2,530,156

SHEET FEEDING MECHANISM FOR BILLING MACHINES

William A. Eagan, Glen Rock, N. J.

Application December 5, 1947, Serial No. 789,844
5 Claims. (Cl. 197—128)



1. A billing machine comprising, in combination, a rotatable platen, means for imparting a step by step rotary motion to said platen, means for feeding sheets of paper to said platen from the back of the machine, means for directing sheets fed from the front of the machine into feeding engagement with said platen, said front feed directing means comprising a shield mounted for sliding movement in a plane tangential to the platen at the front thereof, and means for moving said shield thereby to vary the distance between its lower edge and said platen.

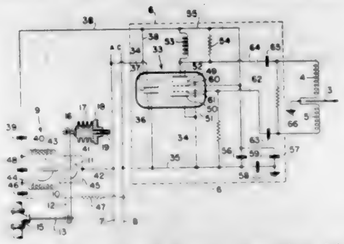
2,530,157

ELECTRIC PROPORTIONING CONTROLLER WITH LIQUID-OPERATED FOLLOW-UP

Donald P. Eckman, Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 31, 1948, Serial No. 18,144
8 Claims. (Cl. 318—31)

1. A controller for positioning a final control element in response to changes in a control variable as sensed by a measuring element, said controller including, an electric motor connected to a source of electricity, an oscillatory circuit having control of said motor so as to energize said motor for movement in one direction or the other upon a change of state of oscillation of said circuit, a pair of oscillating coils mounted for mechanical movement and connected into said oscillatory circuit, a shielding vane mounted for movement relative to said oscillating coils so as to vary the state of oscillation in said coils, a mechanical connection between said vane and the measuring element so that said vane is moved proportionally to the changes of the control variable, and a closed liquid-operated system including a liquid pump operated by said electric motor, a first liquid-operated bellows movable in response to the pressure from said pump, a second liquid-operated bellows movable in the opposite direction to said first bellows in response to liq-



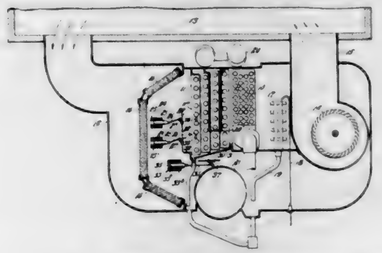
uid pressure from said pump, a spring biasing said first and second bellows in the direction of movement of said second bellows, a restricted conduit for liquid between said pump and said second bellows, a manually operable valve controlling the amount of said restriction, a variable speed mechanism forming the driving connection from the said first and said second bellows for mechanically moving said oscillating coils, a handle for manually varying the ratio between the input speed and the output speed of said driving connection, a third bellows for varying the liquid pressure in said liquid system, and a handle for actuating said third bellows.

2,530,158

AIR CONDITIONING APPARATUS HAVING CONTROL MEANS

Per Edberg, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application June 9, 1945, Serial No. 598,537
9 Claims. (Cl. 62—6)



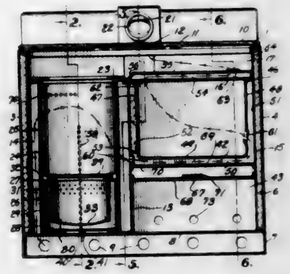
1. An air-conditioning system including an air duct, a cooling element located in said air duct, said cooling element including a plurality of sections arranged in vertical spaced relation one directly above another, a blower for conveying air through said air duct and over said cooling element, means operable responsive to the temperature of certain lower sections of said cooling element for blocking flow of air over said certain lower sections while continuing the flow of air over certain upper sections thereof, and means operatively connected to said last named means for by-passing air around said cooling element.

2,530,159

COOKSTOVE

Edwin Esson, Kansas City, Mo., assignor to Locke Stove Company, Kansas City, Mo., a corporation of Missouri

Application April 7, 1947, Serial No. 739,754
4 Claims. (Cl. 126—1)



1. A cook stove including a casing having an oven and air heating compartments, a heating unit in the heating compartment including a casing spaced from walls of the heating compartment, a flue connection for the stove having flow connection with the heating unit for discharging products of combustion from the heating unit and for producing a draft through the flue connection when the stove is in operation, partitions cooperating with the heating unit casing to provide an upflow heating space on one side of the heating unit and a downflow heating space on the other side, an oven in the oven compartment having a bottom and a side wall remote from the heating compartment in spaced relation with the corresponding bottom and side wall of said oven compartment for providing a bottom passageway under the oven and an interconnected passageway at said side of the oven, said downflow space of the heating compartment having a flow connection with the bottom passageway and said oven having a flow connection with said side passageway adjacent the interconnection of said bottom and said side passageways and a flow outlet at the opposite diagonal corner of the oven, and means forming a passageway over the top of the oven in connection with said outlet and having an outlet at the opposite end in connection with said flue connection to effect movement of heated air from the heating compartment in heating relation to the oven.

2,530,160

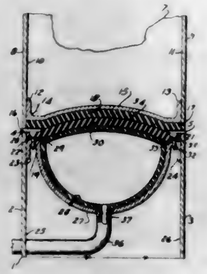
DOOR SEAL

Virgil A. Finley, Topeka, Kans.

Application February 17, 1947, Serial No. 729,033
2 Claims. (Cl. 20—69)

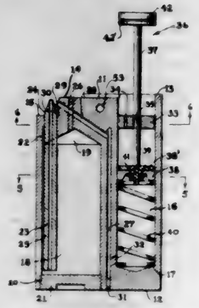
1. In a device of the character described, a wall of a chamber adapted to be pressurized, said wall being formed of spaced panels having aligned openings therein, means extending around the openings and connecting the panels to form a casing for the openings, said casing means having a recessed portion extending completely around said openings, a door hinged on the wall for movement into flush alignment with the openings, said door having a concaved portion extending around the peripheral edge, a resilient facing mounted on and extending around the concaved portion of the peripheral edge of the door, said facing conforming to the shape of the peripheral edge of the door and

forming a resilient lining therefor, a resilient flexible strip spanning the space between the panels and extending around the periphery of the openings therein and secured to the casing means adjacent the panels, and a pneumatic tube mounted in the casing recess behind the



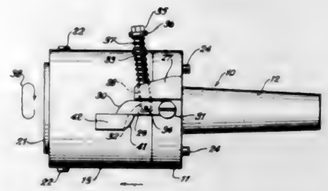
strip on said casing whereby inflation of the tube moves the mid portion of the strip between the wall panels into engagement with the resilient facing on the concave edge of the door compressing the engaging portions of the strip and facing for sealing and retaining the door in the openings.

2,530,161
POCKET ATOMIZER
George H. Fisher, New York, N. Y.
Application August 30, 1946, Serial No. 694,081
2 Claims. (Cl. 299—88)



1. An article of the class described, comprising a one-piece metal body, said body being formed with an air compression chamber extended down from the top thereof and terminating adjacent the bottom of said body, a plunger assembly in said air compression chamber, said body being formed with a well extended up from the bottom thereof and terminating adjacent the top of said body, means closing the open bottom of said well, said body being formed with a passageway extended up from the bottom thereof between said air compression chamber and said well and terminating adjacent the top of said body, means closing the bottom of said passageway, said body being formed with an aperture connecting the bottom of said air compression chamber with the bottom of said passageway, said body having a lowered top face portion above said well and a vertical face at one end thereof, said block being formed with an inclined passageway extending from the top end of said first-mentioned passageway and terminating in said vertical face at the top thereof, said block being formed with a hole extending down from said lowered top face portion and communicating with the top of said well, and a tube portion having an intermediate portion passing through said hole with its lower end adjacent the closed bottom end of said well and its top end formed with a reduced nozzle positioned adjacent the terminal end of said inclined passageway.

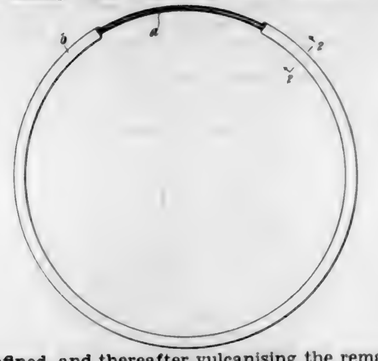
2,530,162
THREADING TOOLHOLDER
Eugene Frommer, New York, N. Y.
Application May 24, 1946, Serial No. 672,062
2 Claims. (Cl. 10—89)



1. A tool holder of the class described, comprising in combination, a supporting head comprising a disk-like plate, a shank on one side and a cylindrical spigot at the remaining side of said plate, a cylindrical tool receiving socket slidably and rotatably mounted on said spigot, a compression spring embracing said spigot and yieldingly urging said socket against said plate, said socket being formed with a plurality of apertures in one end thereof, a plurality of slidably adjustable pins on one side of said plate in registry with said apertures, said pins being removably receivable in said apertures, a cam surfaced dog on the outer surface of said socket, a pawl pivotally mounted on the periphery of said plate, and tension adjustable spring means disposed exteriorily of the head and the socket and acting on said pawl, said pawl engaging said dog to limit rotation of said socket clockwise on said spigot, said pawl having a flat surface for engaging the dog when the pins are aligned with said apertures to permit movement of the socket toward the plate when the socket is rotated clockwise on said spigot, and said pawl having a cam surface for riding against the cam surface of said dog when the socket is rotated counterclockwise on said spigot.

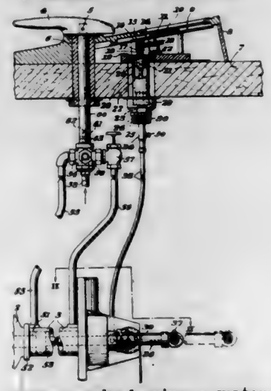
2,530,163
METHOD OF FORMING ENDLESS TOROIDAL WIRE SPRING BELTS
Reginald Goodwin, Newcastle-upon-Tyne, England, assignor to George Angus and Company Limited, Newcastle-upon-Tyne, England
Application March 13, 1948, Serial No. 14,766
In Great Britain April 24, 1947
3 Claims. (Cl. 154—116)

1. A method of forming an endless toroidal wire spring sheathed by an endless rubber tube, consisting in slipping unvulcanised rubber tubing over a length of toroidal wire spring, joining the ends of said length of toroidal wire spring, subsequently vulcanising end portions of said rubber tubing with adjoining ends meeting and



confined, and thereafter vulcanising the remainder of said rubber tubing unconfined.

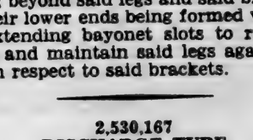
2,530,164
WATERWORKS VALVE POSITION INDICATOR OPERATING MECHANISM
Elmer D. Harshbarger, Pittsburgh, Pa.
Application April 3, 1948, Serial No. 18,803
2 Claims. (Cl. 116—125)



1. In a water works having a water flow control valve and an indicator at a location remote from the valve showing the position of the valve relative to open and closed positions, connections between the valve and the indicator whereby the indicator is operated upon operation of the valve including a flexible tubular liquid tight sheath and a flexible shaft within the sheath connected at one end with the valve so as to be turned upon operation of the valve and connected at the other end with the indicator so as to operate the indicator upon turning of the shaft.

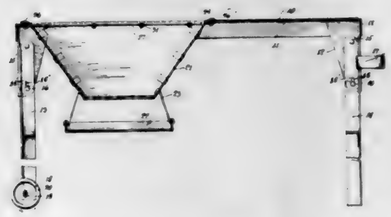
2,530,165
CIRCUIT FOR FREQUENCY CONTROL
Eduard Herman Hugenholtz and Egbert Scholten, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 5, 1947, Serial No. 789,972
In the Netherlands September 20, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 20, 1966
10 Claims. (Cl. 250—36)

1. A circuit arrangement for producing a frequency variable under the control of an input voltage, comprising an oscillator tube provided with a cathode, an output electrode and a control electrode, a tuned circuit having a first point connected to said output electrode, phase shifting means connecting said control electrode to a second point of said tuned circuit, the potentials of said two points varying substantially in



phase opposition, said phase shifting means including reactance means serially connected between said control electrode and said second point and further including negative resistance means bridged across said control electrode and said cathode, and a source of input voltage connected to said negative resistance means to vary the magnitude thereof.

2,530,166
GRILL
Udo K. Johannsen, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application August 4, 1945, Serial No. 608,898
1 Claim. (Cl. 126—25)

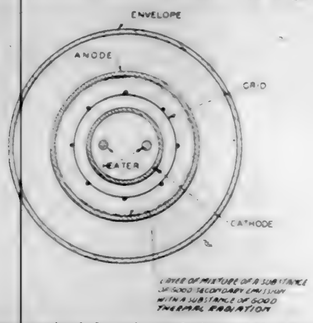


A grill including in combination a deck, a fire box connected to and extending downwardly from said deck, brackets also connected to said deck and extending downwardly therefrom, legs pivotally secured to said brackets at points adjacent the upper ends of the latter, said legs being formed with longitudinally extending slots, couplings slidably mounted within said slots and projecting beyond said legs and said brackets adjacent their lower ends being formed with downwardly extending bayonet slots to receive said couplings and maintain said legs against movement with respect to said brackets.

2,530,167
DISCHARGE TUBE
Johan Lodewijk Hendrik Jonker and Eduard Gerardus Dorgelo, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 1, 1947, Serial No. 731,862
In Belgium December 14, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires December 14, 1964
8 Claims. (Cl. 250—174)

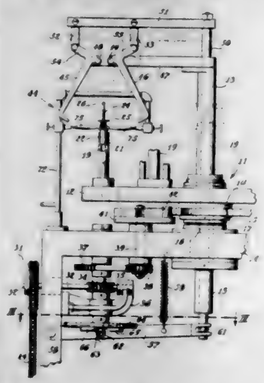
1. An electric discharge tube comprising a primarily emitting cathode and at least one other

electrode coated with a mixture of a good heat



radiating material and a substance the secondary emission coefficient of which equals at least 1.

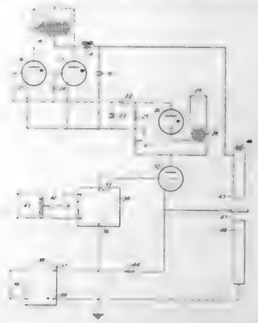
2,530,168
APPARATUS FOR MAKING STEMS FOR ELECTRICAL DEVICES
William John Knochel, East Orange, and Charles Wiener, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 24, 1946, Serial No. 698,914
7 Claims. (Cl. 49—2)



2. Apparatus for making stems for electrical devices comprising means for heating an assembled glass flare, glass exhaust tube, and leads for a relatively short period of time until the glass parts are sufficiently softened for consolidation, and means comprising a power-operated plate carrying a pair of adjustable cam elements for at one location performing all of the following operations: pressing said softened glass parts to consolidate them about said leads, and shortly thereafter repeating the pressing operation.

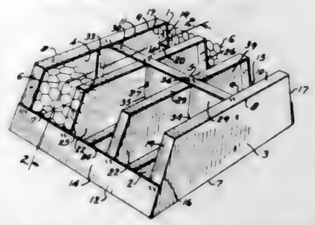
2,530,169
ELECTRONIC REGULATOR
Ernest O. Lawrence and Victor B. Waithman, Berkeley, Calif., and Fred H. Schmidt, Seattle, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application March 1, 1948, Serial No. 12,414
4 Claims. (Cl. 315—227)

1. In a protective system for an electrical device having at least two elements supplied from a rectifier circuit, said circuit comprising a pair of gas triode tubes having anodes and cathodes interconnected as a full-wave rectifier across a first source of alternating current, the combination comprising means for connecting the anodes of said gas tubes to one element of said device, a condenser connected between the control grids and cathodes of said gas tubes, a pair of series connected resistors connected in parallel with said condenser, a diode gas tube having its anode



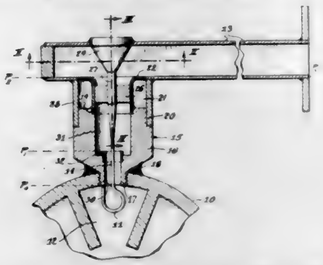
connected to the junction between said pair of resistors, a transformer having a primary winding connected across a second source of alternating current and one terminal of a secondary winding connected to the cathode of said diode tube, a variable resistor connected between the cathodes of said gas triodes and the other terminal of said secondary winding, and means connected between the junction of said variable resistor and the secondary winding of said transformer and a second element of said device.

2,530,170
SHIPPING CRATE FOR ANIMALS
Leland C. Miller, Kansas City, Mo., assignor to Midwest Game Co., Inc., Kansas City, Mo., a corporation of Missouri
Application March 15, 1948, Serial No. 14,895
3 Claims. (Cl. 229—16)



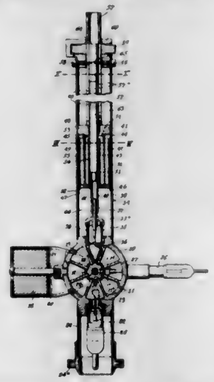
1. An animal shipping crate comprising, a paper bottom member, upturned paper side members on said bottom member, upturned paper end members on the bottom member, said end members being shorter in height than the side members, partitions secured to the bottom for dividing the crate into separate open top compartments for containing animals, inturned flaps on the free edges of the side members, an open wire mesh covering forming the top of said crate overlying the partitions and underlying the end members and the flaps on the side member, and means for securing the mesh to the respective flaps and end members whereby the wire mesh protects the edges of the paper from gnawing by animals contained in the compartments.

2,530,171
MAGNETRON OUTPUT TERMINAL
Ernest C. Okress, Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 6, 1944, Serial No. 538,971
5 Claims. (Cl. 178—44)



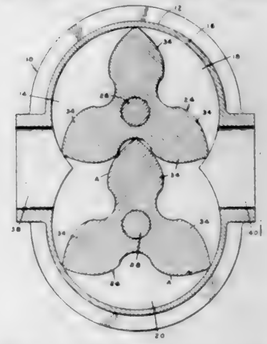
1. An output coupling from an ultra high frequency generator to a waveguide, comprising a hollow member having a basal end next to and projecting from said generator and said basal end having a longitudinal passage therein, said passage having an enlargement thereof at the end of the passage remote from the generator, said hollow member providing a chamber of greater diameter than said enlargement, a coaxial inner member extending from said generator to said waveguide coaxially of and through said passage, enlargement and chamber, a ring seated in said enlargement and projecting into said chamber and constituting with the wall of said chamber a transformer, and a vacuum seal for said chamber at the end thereof toward the waveguide whereby the passage, chamber and transformer are at the same vacuum as the generator, and the location and seating of said ring in the enlargement enabling the coupling to be assembled with a desired length of ring protruding into the chamber and obtaining desired transformer characteristics.

2,530,172
ULTRA HIGH FREQUENCY GENERATOR
Ernest C. Okress, Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 17, 1945, Serial No. 578,372
12 Claims. (Cl. 315—40)



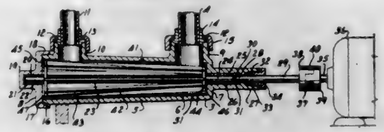
1. A magnetron having a series of tightly coupled cavities therein and having exterior tuning means operable over a wide band of frequencies, said tuning means comprising a coaxial line having a coupling loop within and midway of the length of and transverse to one cavity of said device, and a movable piston in said line movement whereof changes the reactance in the coaxial line and the impedance in the entire said series of cavities in the magnetron.

2,530,173
HELICAL INTERENGAGING IMPELLERS BLOWER
Sidney Oldberg, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 25, 1947, Serial No. 763,633
8 Claims. (Cl. 230—143)



1. A rotary blower comprising a casing having a chamber therein and inlet and discharge ports communicating with the chamber, a pair of interengaging rotors rotatable in the chamber, each of said rotors having a plurality of teeth or lobes uniformly twisted throughout the length of the rotors and the cross section of the lobes being relieved on the addendum and dedendum from the true pitch line of the rotors so as to provide solely pitch line contact between the rotors in the rotation thereof.

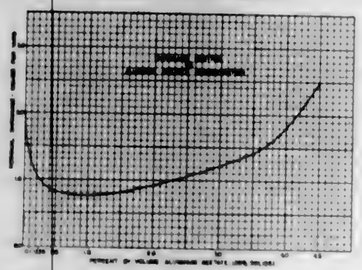
2,530,174
APPARATUS FOR MIXING LIQUIDS
Allen L. Payton, Kansas City, Mo., assignor to Tranin Egg Products Company, Kansas City, Mo., a corporation of Missouri
Application June 23, 1948, Serial No. 34,757
1 Claim. (Cl. 259—10)



An agitator drive for liquid mixing apparatus having an agitator rotatable in a chamber defined by a casing, said agitator being removable through one end of the casing including, a relatively long axial boss extending outwardly from the other end of the casing and having an axial bore therein, a shaft mounting the agitator and having a trunnion slidably and rotatably mounted in the axial bore, a drive shaft rotatably and slidably mounted in the axial bore and having endwise separable driving engagement with the rotatable agitator shaft substantially midway the length

of the axial boss, a prime mover, separable interengaging coupling members connecting the drive shaft with the prime mover, said coupling members being spaced from the outer end of the axial boss whereby separation of the coupling members moves the drive shaft and agitator shaft endwise toward the end of the casing through which the agitator is removable, and means in the axial boss forming a seal around the drive shaft.

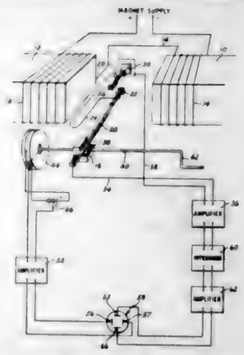
2,530,175
STABILIZATION OF REGENERATED CELLULOSE
Edward C. Pfeffer, Jr., and Jack Epelberg, Troy, N. Y., assignors to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York
Application September 27, 1946, Serial No. 699,626
9 Claims. (Cl. 8—116.4)



1. The method of stabilizing, against progressive, dimensional shrinkage under repeated washings, a textile material predominantly of regenerated cellulose, which comprises wetting the fibers of said material with an aqueous liquid having a pH between approximately 1.0 and 2.5 and containing a mixture of glyoxal in approximately 1.12% to 7.5% by weight in the treating liquid, an aluminum salt which is soluble or readily dispersible in water, and an acid catalyst, the acidic component of which increases in acidity and is not eliminated when concentrated to dryness and subjected to temperatures just above about 212° F., removing excess wetting liquid, then heating the textile material so wetted, after said removal of excess liquid, to a temperature above about 212° F. for a time interval inversely related to the temperature, until a substantial reaction product of cellulose and glyoxal is formed in situ in the fibers of said material.

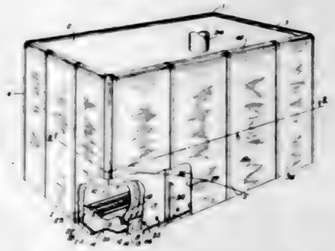
2,530,176
APPARATUS FOR MEASURING LOCAL VARIATIONS IN FLUX DENSITY IN A MAGNETIC FIELD
Wilson M. Powell, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 2, 1944, Serial No. 552,545
2 Claims. (Cl. 175—183)

1. Apparatus for measuring the distribution of magnetic flux in the gap of a magnet the strength of which is subject to time variation, which apparatus comprises a reference coil disposed at a fixed reference position in said gap and having its axis extending in the same direction as the flux therein, a search coil disposed in said gap with its axis extending in parallelism with the axis of said reference coil, means for moving said search coil along a predetermined path normal to the lines of flux in said gap, a circuit network including said reference coil and said search coil differentially connected therein for producing a voltage in accordance with a change in the difference in the density of the magnetic flux simultaneously passing through the two coils,



and means including an integrating device connected in said network for integrating said voltage for indicating differences in simultaneous values of magnetic flux density at different positions on said path.

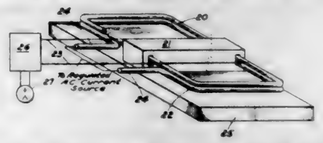
2,530,177
OVEN
Phil B. Pursell, Kansas City, Kans.
Application May 5, 1947, Serial No. 745,981
1 Claim. (Cl. 107—63)



An oven including vertical walls and a top, a base supporting the vertical walls and having a series of air distributing openings extending along one of the vertical walls, burners extending across the base, means closing the space between the burners and vertical walls to provide an air chamber connected with said openings for supplying combustion supporting air to the burners, vertical frame members supported by said wall, metal sheets fixed to the frame members and having upper ends projecting over and above the oven top to provide a duct for conducting air from over the oven top to said air distributing openings in said wall from said base to the top of said oven to prevent heating of the air while moving through said duct.

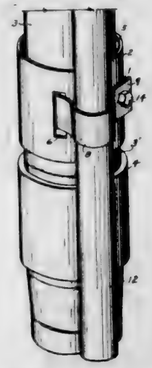
2,530,178
FLUXMETER
William R. Rathkamp, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application June 3, 1948, Serial No. 30,830
2 Claims. (Cl. 175—183)

1. A device for determining magnetic field strength comprising a pulsating current conducting element forming an armature disposed in the magnetic field and being mounted to allow vibration of the element across the field so that the amplitude of the vibration is proportional to the strength of the magnetic field, and means re-



sponsive to vibration of the armature for giving an indication of the field strength comprising a member forming an armature positioned to be mechanically vibrated by the current conducting element so as to cause an E. M. F. to be generated in the member and means for measuring the magnitude of the induced E. M. F.

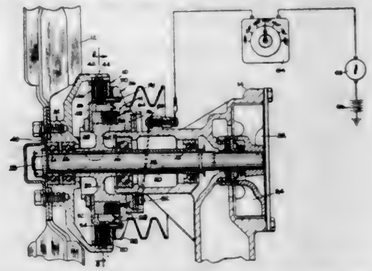
2,530,179
SWIVEL CLAMP FOR SUBMERGIBLE ELECTRIC CABLES
Leo Rosen, Oklahoma City, Okla.
Application December 29, 1945, Serial No. 638,084
2 Claims. (Cl. 248—74)



1. A swivel clamp for attaching submergible electric cables to a string of upset ended well pipe sections comprising, a cylindrical tubular ring adapted to be sleeved over the upset ends of the pipe sections and be rotatable and slidable on said sections between the upset ends, said ring having a slot in one side thereof, a strap-like member adapted to embrace a cable arranged longitudinally of the pipe sections and having an extension at one end engaging in the slot, and means securing the other end of the strap-like member to the ring for holding the cable to the ring.

2,530,180
MAGNETIC CLUTCH
Robert C. Russell, Cleveland Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 13, 1945, Serial No. 628,053
4 Claims. (Cl. 192—90)

1. A mechanically engaged and electro-magnetically disengaged clutch comprising a driving means, a pole piece driven thereby having a tapered face, an annular magnetic coil insulatingly mounted on the pole piece radially inwardly disposed from the face of the pole piece, an armature mounted for sliding, non-rotative arrangement on a portion of the pole piece radially outwardly disposed from the coil having a tapered face cooperable with the tapered face on the pole piece and a clutch engaging surface, a driven member having a clutch engaging surface cooperable with the clutch engaging surface on the



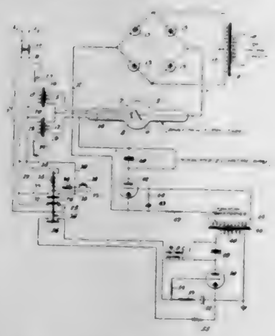
armature, resilient means interposed between the armature and pole piece normally holding the clutch engaging surfaces in frictionally locked relation and biasing the tapered faces of the pole piece and armature apart, and electrical means for energizing the coil for disengaging the clutch engaging surfaces.

2,530,181
SEPARATING APPARATUS
Frederick B. Schilling, Manhasset, N. Y., assignor to Nichols Engineering & Research Corporation, New York, N. Y., a corporation of Delaware
Application July 29, 1947, Serial No. 764,370
1 Claim. (Cl. 209—211)

A method for continuously separating undesired relatively heavy particles from a liquid suspension which comprises: continuously maintaining under pressure in a chamber a downwardly directed annular vortex of the suspension and from which the suspension passes upwardly as an inner vortex to a restricted outlet; allowing such relatively heavy particles to settle from the lower ends of said vortices through an enclosed body of liquid maintained under pressure; removing from the lower region of said body of liquid a continuous succession of preselected volumetric increments of liquid having therein such relatively heavy particles, such removal being at a rate equal to a relatively small percentage of the rate of flow of the liquid suspension through said chamber; and adding auxiliary liquid to said en-

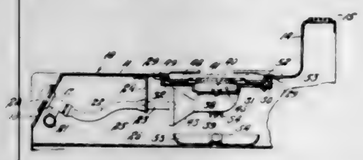
closed body of liquid at a region above the point of such removal of heavy particles, such addition of auxiliary liquid being continuous at a regulated rate and pressure in an amount substantially to compensate for said increments of material removed, to maintain relatively quiescent conditions in such liquid into which such particles settle from the vortices.

2,530,182
DUAL FOCUS X-RAY APPARATUS
Charles M. Slack, Glen Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1944, Serial No. 540,384
9 Claims. (Cl. 250—98)



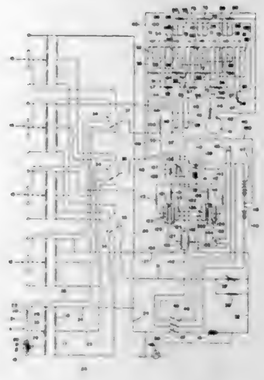
1. An X-ray apparatus for the making of fluoroscopic and radiographic examinations comprising an X-ray tube provided with a small focal-spot producing cathode and a large focal-spot producing cathode, a source of electrical energy for energizing said X-ray tube, means for heating said small focal-spot producing cathode to an electron emitting temperature for fluoroscopic purposes, means operable to cause substantially instantaneous heating of said large focal-spot producing cathode to an electron emitting temperature for radiographic purposes, and means operable to interrupt the heating of said small focal-spot producing cathode and to cause the immediate operation of said last mentioned means with attendant instantaneous heating of said large focal-spot producing cathode from a source of supply independent of the means for heating the small focal-spot producing cathode.

2,530,183
COOKING RANGE
Albert E. Smallwood, Taunton, Mass., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 30, 1944, Serial No. 570,687
4 Claims. (Cl. 126—39)



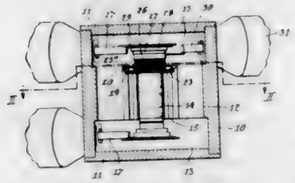
2. In a gas range, a top panel provided with a top burner opening, a supporting ring removably supported at three points by said top panel, a gas burner, a gas supply conduit, means supporting said gas burner at two points on said supporting ring and at a third point on said gas supply conduit, a heat reflector surrounding said gas burner, a grate located above said gas burner, and means in said top panel, said reflector and said grate whereby said reflector and said grate are supported and centered at three points relative to said top burner.

2,530,184
STRAIN MEASURING INSTRUMENT
Louis D. Statham, Beverly Hills, Calif., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application January 19, 1944, Serial No. 519,067
8 Claims. (Cl. 73—88.5)



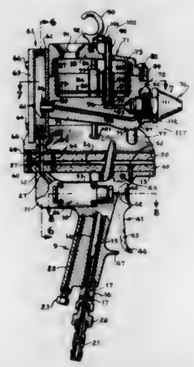
1. Apparatus for measuring strains by means of strain gage resistance elements, comprising a plurality of sets of terminals adapted for connection with a like plurality of such strain gage elements, each set of terminals being connected with a resistance network which when connected with a strain gage element constitutes a Wheatstone bridge, each network having bridge input and output connections, and each network having an independent manually adjustable resistance for balancing the bridge, a source of electrical energy and a circuit therefor including manually operable means for adjusting the current in the circuit, a galvanometer for indicating bridge output current value and a circuit therefor, means in the galvanometer circuit for varying the galvanometer range by predetermined increments while maintaining the resistance of the circuit approximately constant, and manually operable switch means for selectively connecting said source circuit with the input connections of any network and for simultaneously connecting the galvanometer circuit with the output connections of the selected network, whereby with the bridge input current adjusted by said current adjusting means into accordance with the galvanometer scale the bridges may be individually balanced by their respective adjustable resistances and thereafter quantitative measurements made of strains applied to the connected strain gage elements, and means, including a switch, connected between the source circuit and the galvanometer circuit, for unbalancing by a predetermined amount when said switch is closed any bridge that is selected by said manually operable switch means.

2,530,185
ELECTRON DISCHARGE DEVICE
Howard L. Steele, Jr., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 4, 1944, Serial No. 561,890
11 Claims. (Cl. 250—27.5)



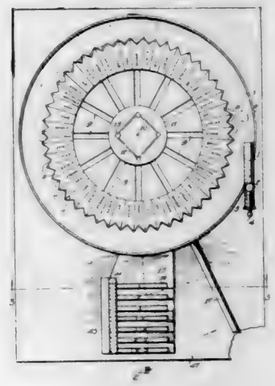
1. A magnetron comprising an anode body having end spaces at the ends thereof and having a cathode cavity and cavity resonators extending from one end space to the other and having a cathode in said cathode cavity, said anode body providing segments between successive cavity resonators, strap means connecting alternate segments, said strap means providing an adjacent strap space, and electronic means operative in said strap space for changing the capacitance in said strap space.

2,530,186
PORTABLE SPRAYING APPARATUS FOR MOLTEN MATERIALS
Ernest L. Trimm and Nathan Arnow, Norfolk, Va.
Application October 13, 1947, Serial No. 779,474
4 Claims. (Cl. 91—12.2)



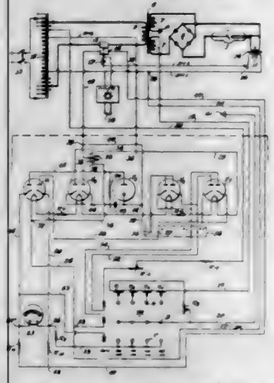
1. A device for spraying molten metal, including an upwardly-extending handle, an operating lever mounted upon the exterior of said handle, a molten metal reservoir above said handle, heating means for applying molten metal heat to said reservoir, said means being above said handle, radiant and conducted heat shielding means for the hand of an operator grasping said handle and lever, said shielding means including a horizontally-disposed lower plate having substantially vertically-disposed outer edges and an upper horizontally-disposed plate having substantially vertically-disposed outer edges, said upper plate being spaced above the lower plate, with an air space between said plates, means carrying said lower plate upon the upper end of said handle, means mounting said upper plate upon said lower plate, the vertical planes of said edges of said plates being outwardly of said handle and lever, means mounting said reservoir upon and above said upper plate and within the vertical planes of said edges of said upper plate, means mounting said heating means upon and above said upper plate and within the vertical planes of said edges of said upper plate, a spraying nozzle mounted on a forward part of said reservoir, said nozzle being provided with molten metal passage means and with air blast passage means, molten metal conduit means leading from said reservoir to said nozzle molten metal passage means, air blast conduit means leading to said nozzle air blast passage means, and combined valve means comprising valving components biasing the conduits of said molten metal and airblast conduit means, and means operatively connecting said components together and to said operating lever.

2,530,187
BASEBALL GAME
William Futch Wolfe, Decatur, Ga.
Application May 27, 1948, Serial No. 29,539
20 Claims. (Cl. 273—93)



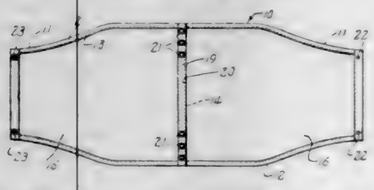
1. A baseball game comprising a stationary dial having a plurality of subdivisions arranged in a substantially ring-shaped pattern, said subdivisions having legends contiguous thereto, a legend to each sub-division, showing possible occurrences with respect to the player at bat in a baseball game, a series of windows but less than the total number of legends, each window being adjacent and corresponding to a subdivision and its legend on the stationary dial, a series of movable discs at least equal in number to the sum of the bases and home plate, which discs are below the said stationary dial and each having a rest and operative position, each movable disc having windows which coincide with the windows in the stationary dial in rest position, each movable disc having legends which are displayed in the above-mentioned windows by the movement of the disc into operative position and representing possible action of players on base, and means affixed to the playing board to indicate subject to the action of the operator of the game, by coming to rest at some position corresponding to a sub-division and its corresponding legend, the action of the player at bat.

2,530,188
LOAD READING VOLTMETER
Robert L. Wright, Severna Park, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 7, 1946, Serial No. 714,828
11 Claims. (Cl. 250—103)



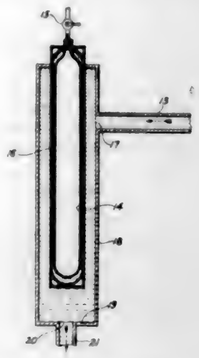
1. An X-ray system comprising an X-ray tube energizable with unidirectional current from a high tension transformer and having its primary winding connected to a source of variable voltage, means connected to said variable voltage source for producing a known constant voltage, additional means connected to said variable voltage source for producing an unknown voltage having a direct relation to the voltage supplied by said variable voltage source to the primary winding of said high tension transformer, a meter connected to both said means and said additional means and simultaneously subjected to the known constant and the unknown voltages and operable to deflect to indicate when the unknown voltage is higher or lower than the known constant voltage, and adjustable means connected to said additional means and operable to adjust the unknown voltage until no deflection of said meter occurs, to indicate equalization of both voltages supplied to said meter and that a definite desired voltage is supplied by said high tension transformer to said X-ray tube.

2,530,189
DIAPER
Willie C. Burke, Kenosha, Wis.
Application November 19, 1948, Serial No. 61,060
1 Claim. (Cl. 128—284)



A diaper comprising a length of a sheet material having portions of its opposite ends of a uniformly reduced width and adapted to be folded along its transverse center to provide a double thickness, the double portion of greatest width being adapted to be encircled about the back and sides of an infant and the end portions of reduced width to cover the abdomen of the infant, sets of snap fastener parts spacedly secured along the opposite ends of the line of fold at the outer side of the outer portion of the material, and a single cooperative snap fastener part secured at each corner of the inner side of one of said reduced end portions for selective engagement with the first snap fastener parts, the other of said reduced end portions having an opening in each of its corners and adapted to be engaged with the last named snap fastener parts and the selected of the first snap fastener parts.

2,530,190
SURGE CHAMBER
Emmett K. Carver, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 15, 1945, Serial No. 635,200
3 Claims. (Cl. 138—26)

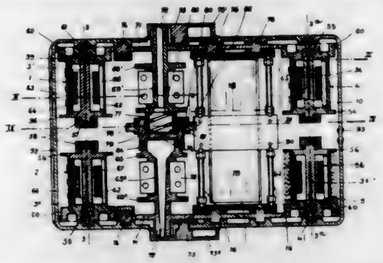


1. In a liquid conveying system, the combination with an elongated sealed surge chamber, an elongated gas filled deformable member suspended in said chamber and initially inflated to a fixed pressure, of a liquid inlet and a liquid discharge pipe connected in spaced relation to and in series relation with said chamber and member so that all the liquid flowing through said pipes must flow through said chamber and over the surface of said member to deform the latter in response to pressure fluctuations of the liquid supplied to said chamber to eliminate pressure surges in said discharge pipe.

2,530,191
CALCULATING APPARATUS
André Philippe Clouez, Paris, France
Application August 9, 1945, Serial No. 609,762
In France July 22, 1943
4 Claims. (Cl. 235—71)

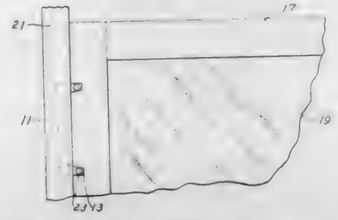
1. A portable calculator including a casing, at least one web having correlated indicia on the opposite faces thereof supported in said casing for movement therein parallel with the major axis thereof, said casing having aligned windows on opposite sides extending transversely of said axis, means for independently moving said web between and past said windows, reading means supported in each window and index mark means on each reading means extending transversely of said axis and in alignment with each other, said index mark means co-operating with the indicia on the opposite faces of the web so that the same may be read from opposite sides of the casing in

a single plane perpendicular to the web to establish a correspondence between the indicia on one



face with the indicia on the opposite face of the web.

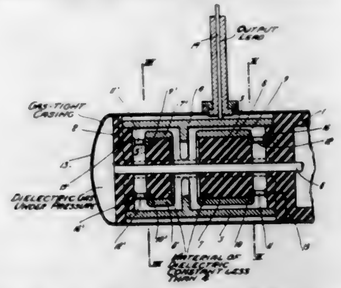
2,530,192
SASH HOLDER
Clarence K. Eppler, Detroit, Mich.
Application August 31, 1948, Serial No. 47,011
1 Claim. (Cl. 292—76)



A sash holder comprising, a strip of resilient metal of a thickness suitable for insertion into a crack such as is commonly found between a loose sash and its holding or guide frame, said strip being permanently deformed to a bowed shape which when installed between a loose sash and its guide tends to assume a flattened shape having the end portions substantially flattened, and said strip having a pair of integral side lugs projecting laterally from the same edge of the strip at opposite ends thereof, and said lugs having apertures for receiving small attachment means, whereby thumb tacks may be utilized.

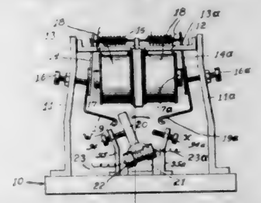
2,530,193
ELECTROSTATIC MACHINE
Noël Felici, Grenoble, France, assignor to Centre National de la Recherche Scientifique, Paris, France, an establishment of France
Application July 14, 1947, Serial No. 760,896
In France July 17, 1946
21 Claims. (Cl. 171—329)

1. An electrostatic generating machine comprising a frame formed of a pair of spaced insulating supports, stationary conducting members disposed between said spaced insulating supports and having an even number of cylindrical segments, a shaft rotatably mounted in said frame, at least one core composed of an insulating material of low dielectric constant secured to said shaft and rotatable therewith, at least one series of cylindrical segments equal in number to and facing the first-mentioned cylindrical segments and disposed about said core for rotation therewith, each such rotatable segment being connected to a conductive sector on said core and cooperating with a first series of fixed brushes comprising an even number, a gas-tight pressure-resistant metallic casing enclosing said machine, an insulated outlet lead passing through said casing, electrical connections between said casing and the alternate, odd-numbered brushes and between alternate, even-numbered brushes and said outlet lead, and at least one additional series of similar cylindrical segments mounted on said shaft for rotation with the above-mentioned rotatable segments but electrically separated therefrom, each of said additional segments being connected to a



conducting sector rotatable therewith, and co-operating with a second series of fixed brushes comprising an even number, certain alternate brushes of said second series being connected with one of the stationary conducting members and the other brushes of said second series being connected to the casing, the active edges of the rotatable conducting members and the active edges of the stationary conducting members having a marginal thickness equal to at least two-thirds the space between a rotatable and a stationary conducting member when said members are at least partially facing each other.

2,530,194
LATCH-IN RELAY
Paul F. Ferry, Glenfield, Pa.
Application February 24, 1947, Serial No. 730,445
4 Claims. (Cl. 200—103)

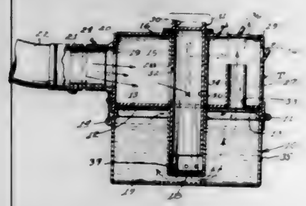


4. A latching-in relay comprising a base with a pair of upstanding posts carrying a bridge member between them, a magnet spool carried by said bridge member and having two opposite pole pieces, an armature oscillatably supported on said bridge member for each pole piece, spring means for holding said armatures away from the pole pieces, means for alternately leading electric current through said armatures consisting of a striker member carried by each of the armatures, said striker members being spaced apart longitudinally of said magnet spools, and a current conducting rocking lever in the space between the striking members with its center of gravity above the pivot axis and adapted to selectively electrically connect with said striker members for alternately conducting current to electrically operated elements.

2,530,195
ELECTRIC CONTROL SYSTEM
Ralph Gordon Fuller, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 31, 1947, Serial No. 795,284
10 Claims. (Cl. 318—20)

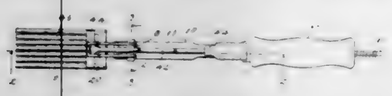
1. In a control system for a motor, a pair of electrical circuits, a plurality of electrical devices in each of said circuits, a plurality of electrical devices in each of said circuits, a plurality of electrical devices in each of said

2,530,195
AIR MOISTENER
Antonino Giacobello, Pasadena, Calif.
Application April 14, 1948, Serial No. 21,063
1 Claim. (Cl. 261—121)



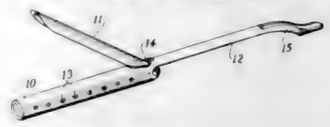
In an air moistener, a casing formed to provide an upper compartment and a lower compartment, said lower compartment having an open top and said upper compartment hingedly connected with the lower compartment and having a bottom wall adapted to cover the open top of the latter when it is normally disposed, said lower compartment being adapted to receive a liquid cooling medium, baffles dividing the interior of said upper compartment with certain of the edges thereof spaced from opposed walls of the latter to provide relatively narrow passageways therebetween, an inlet for air under pressure opening into said upper compartment at one side of said baffles, means centered between adjacent ends of said baffles for conveying a relatively large volume of the incoming air into said lower compartment and discharging the same in proximity to the bottom thereof, means for conveying the moistened air from above the cooling liquid within said lower compartment and discharging it into the upper compartment at the opposite sides of said baffles, outlets opening through certain of the walls of said upper compartment at the same sides of said baffles for the discharge of a mixture of the unmoistened and moistened air outwardly therethrough, the first named means comprising a tubular element depending through the top and bottom walls of said upper compartment with its lower end disposed in closely spaced relation with respect to the bottom of said lower compartment, a second tubular element depending within the first named tubular element, a knob-like cap closing the upper end of said second tubular element for turning the same relatively to the first named tubular element, the first named tubular element having a side opening disposed substantially in line with the said air inlet to said upper compartment, and said second tubular element having a side opening adapted to be moved into and out of registry with the first named opening to regulate the air flow into said lower compartment.

2,530,196
HAND ELECTRIC IRON CURTAIN RUFFLER
Sarah Frances Grierson, Roslindale, Mass.
Application February 2, 1948, Serial No. 5,765
2 Claims. (Cl. 223—36)



1. An electric hand iron for ruffling or crimping a pliable body of strand material comprising a supporting block formed with a central opening therein, a hollow tubular member extending through said opening and removably secured to said supporting block, a handle on one end of said member, a relatively stationary forked element threadedly carried by the other end of said member, an electric heating element in said tubular member in end abutting heat exchange relation to said forked element, a pair of spaced apart upstanding ears formed on said block, a relatively movable forked element pivotally mounted on said ears, a handle on said last mentioned forked element, and spring means adapted to urge said movable forked element into interlocking relationship with said relatively stationary forked element whereby said supporting block and said relatively stationary forked element may be removed from said tubular member for facilitating replacement and repair of said heating element.

2,530,197
HAIR CURLER
Lawrence J. Hall and May Ruth Hall, Suffern, N. Y., assignors to Damosel, Inc., a corporation of New York
Application August 2, 1947, Serial No. 765,778
7 Claims. (Cl. 132—44)

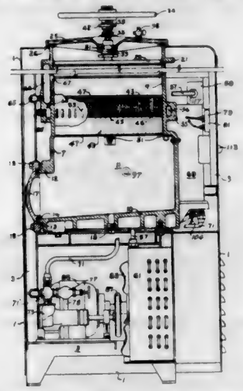


1. A hair curler made of flexible resilient material and comprising a tubular body portion formed with an opening in the wall thereof adjacent one end, a flap-like extension integrally connected by a hinge portion to the wall of the body portion substantially opposite the opening with the hinge portion extending beyond the opening and being folded over and projecting outwardly through the opening at an angle of less than 90° to the body portion, said flap-like extension being shiftable between closed position in contact with and parallel to the body portion and open position projecting outwardly at an angle therefrom and retaining means integrally connected to the wall of the body portion at the end in which the opening is formed and formed with a loop for encircling the opposite end of the body portion.

2,530,198
FILTERING APPARATUS
Frank B. Harvuot, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application July 31, 1944, Serial No. 547,446
8 Claims. (Cl. 210—179)

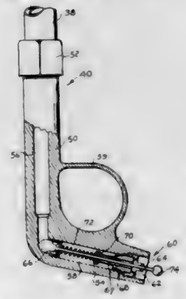
5. In a filtering apparatus, a filtration chamber having one end open, an inlet compartment of greater cross-sectional area than the filtration chamber connected thereto, a plurality of independent, separable filter elements disposed in end to end contact with each other and slidable in said chamber, means disposed at the juncture of said chamber and compartment for holding said elements in said chamber, said holding means being adapted to resistably yield toward said compartment in response to movement of said filter elements toward said compartment, an outlet in said chamber disposed intermediate the ends thereof and spaced from said holding means by at least the thickness of a filter element, means in the filtration chamber operable

at will and disposed so as to urge said filter elements toward said holding means and serving to



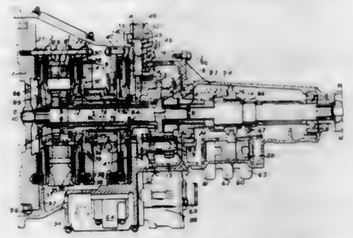
overcome said holding means to eject the lowermost element into said compartment.

2,530,199
DEVICE FOR SCRIBING FLUID ADHESIVES
Arthur L. Henson, Minneapolis, Minn.
Application January 24, 1948, Serial No. 4,164
1 Claim. (Cl. 91—43)



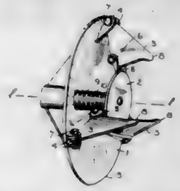
A device for scribing fluid adhesive onto a paper surface, comprising an angularly shaped tubular body member having an inlet end and an outlet end, said body member at its inlet end being adapted for connection to a pressurized body of liquid adhesive, an annular valve seat having a center opening supported within said body member adjacent the outlet end, a plunger valve within the body member and extending through the annular opening in the valve seat, the lateral surface of said plunger beyond the valve seat being annularly spaced from the inner wall of the body member to form a liquid passage of greater cross dimension than the diameter of the plunger, the outer end of the plunger extending beyond the outer end of the body member and being movable relative thereto, resilient means carried within the body member and connected to the plunger for biasing the same to a normally closed position with respect to the valve seat whereby pressure applied to the body member in the direction of the work surface permits liquid to flow about the plunger directly to the work surface, and a spherical member whose diameter is greater than the diameter of the plunger and substantially equal to the diameter of the annular opening in the valve seat connected to the outer end of the plunger for retarding the flow of liquid when the valve is open and for smoothly spreading the liquid in a defined path as the body is moved relative to the paper surface.

2,530,200
TRANSMISSION
Howard Frederick Hobbs, Leamington Spa, England, assignor to Hobbs Transmission Limited, Leamington Spa, England, a British company
Application September 29, 1947, Serial No. 776,703
In Great Britain October 21, 1946
16 Claims. (Cl. 74—754)



1. Variable-ratio power transmission apparatus comprising an input member, two intermediate shafts, an output shaft, gearing connecting the input shaft with at least one of said intermediate shafts whereby said one intermediate shaft can be driven at a speed different from that of the input member, further gearing adapted to engage said intermediate shafts operatively with the output shaft, two clutches whereby the input shaft can drive each intermediate shaft separately and simultaneously, whereby the output shaft will be driven in one transmission ratio by engagement of the one clutch and in another transmission ratio by the engagement of the other clutch and in still another transmission ratio by engagement of both clutches simultaneously, at least one detent adapted to hold one of the intermediate shafts stationary during drive in at least one transmission ratio, and at least one brake whereby a reaction element providing reaction for one of the said gearings can be held stationary, thereby producing a series of torque speed transmission ratios.

2,530,201
MACHINE FOR DECROWNING PINEAPPLES
Eugene R. Jagenburg, Brooklyn, N. Y., assignor to E. R. Jagenburg, Inc., Brooklyn, N. Y.
Application July 20, 1946, Serial No. 685,276
1 Claim. (Cl. 146—6)

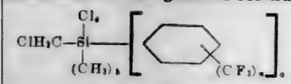


A rotatable machine for decrowning pineapples, comprising a conical base plate, a circular disc suspended in the center and in front of said base plate for rectilinear movement towards and from said base plate for gripping and releasing a fruit, respectively, a stem attached to the surface of the disc disposed opposite said base and ending short thereof, a spring between said base plate and said disc surrounding said stem, and a plu-

rality of gripping prongs forming therebetween a passage for the introduction of the front end of the pineapple towards said disc, each prong pivoted with relation to the base at a point radially spaced from said disc and hinged thereto by a slot-and-pin connection to permit rectilinear movement of the latter to swing the prong about the pivot connection on the base and each prong having its center of gravity between the periphery of said disc and said pivot, each prong including an integral gripping projection arranged to be swung, about said pivot, inwardly relative to said disc and towards said base plate by the displacement of said disc into the fruit gripping position.

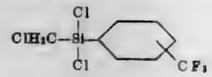
2,530,202
HALOGENOHYDROCARBON DERIVATIVES OF SILANES
Charles F. Kohl, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application December 2, 1949, Serial No. 130,856
4 Claims. (Cl. 260—448.2)

1. Compositions of the general formula:

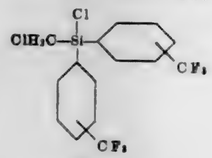


where n represents a positive integer less than 3, a represents an integer from 1 to 2, b has a whole value from 0 to 1, c has a whole value from 0 to 2, and $a+b+c$ equals 3.

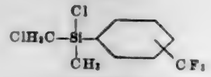
2.



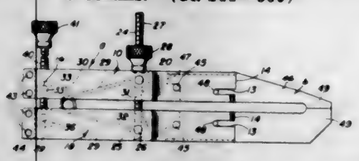
3.



4.

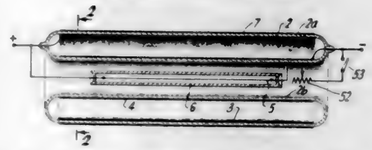


2,530,203
MODEL MAKER'S CLAMP HAVING REMOVABLE JAWS
George B. Lear, Shreveport, La.
Application September 23, 1947, Serial No. 775,663
3 Claims. (Cl. 144—300)



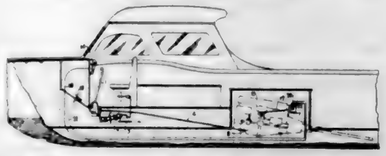
1. A hand clamp including the combination of a clamp body consisting of two similarly formed halves and two clamping jaws removably and exchangeably attached to the halves of the clamp body, each half of the clamp body being made from a resilient sheet metal blank bent into U-shape, having a comparatively long, inwardly extending, central slot at one of its ends and two inwardly curved tongues formed by two comparatively short slots extending into the blank from the other end thereof, said tongues engaging the clamping jaw and said short slots receiving a pin extending through said clamping jaw.

2,530,204
ELECTRIC LAMP
Hans Rudolf Levy, Golders Green, London, England, assignor to Thorn Electrical Industries Limited, London, England, a company of Great Britain
Application July 11, 1944, Serial No. 544,369
In Great Britain July 29, 1943
19 Claims. (Cl. 176—122)



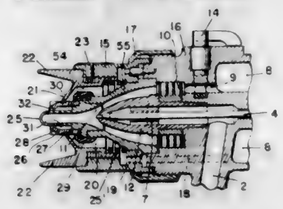
1. An electric discharge lamp of the cold-cathode type and including an evacuated light-transmitting envelope containing an electrode having a surface adapted to emit photo-electrons and a translucent carrier electrode spaced therefrom bearing a luminescent layer in the path of said photo-electrons and capable of emitting light-radiation when excited thereby, wherein the said surface and layer are at least approximately parallel to each other and spaced apart at a distance shorter than the minimum linear dimension of either of them, and an auxiliary light source in position to illuminate said first-mentioned surface to cause the initial emission of photo-electrons therefrom, whereby said electrically-emissive surface is exposed to at least part of the light radiation emitted from the side of said luminescent layer that faces said photo-electrically emissive surface, and said light radiation causes the release from said photo-electrically-emissive surface of photo-electrons which travel oppositely to the said light radiation and excite said luminescent layer, said lamp also including an auxiliary luminescent element capable of being excited by light of relatively short-wave-length emitted from the other side of said luminescent layer, and light radiation from said auxiliary element being emitted by the lamp.

2,530,205
MARINE ENGINE CONTROL MECHANISM
John F. Morse, Hudson, Ohio
Application May 7, 1945, Serial No. 592,495
21 Claims. (Cl. 74—472)



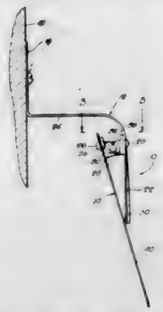
1. In combination with an engine having a throttle valve and a transmission operating means, a main throttle which may be set at any desired engine speed, an auxiliary throttle, means by which the auxiliary throttle may open the valve beyond the point at which the main throttle is set, a valve control shaft, and means operating in synchronism with the transmission operating means for opening the valve first to a limited extent as the transmission passes beyond neutral and then to the full extent determined by the setting of the main throttle.

2,530,206
SPRAY GUN
Felix Nieburg, Stockholm, Sweden, assignor to Aktiebolaget Colorator, Stockholm, Sweden, a company of Sweden
Application November 12, 1943, Serial No. 510,012, In Sweden October 31, 1942
6 Claims. (Cl. 299—140.1)



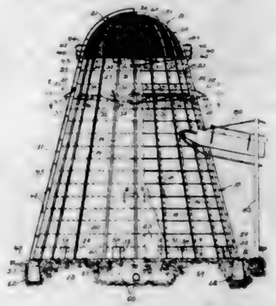
1. In a device for spraying liquids, for coating purposes, an atomizing nozzle for atomizing the liquid by means of gas to form an atomized liquid-gas jet, and an auxiliary nozzle arranged in juxtaposition to said atomizing nozzle, said auxiliary nozzle having a discharge passage defining with the juxtaposed portion of said atomizing nozzle an outwardly-directed outlet for a gas-suction jet, the said passage being outwardly positioned relative to the said atomizing nozzle and having a jet-directing wall inclined outwardly relative to and beyond the outermost normal contour-defining limits of the liquid-gas jet, a common source of supply of air for said atomizing nozzle and said discharge passage, said discharge passage being smaller than said atomizing nozzle, whereby the velocity of the jet through said passage is higher than that of the jet through the atomizing nozzle and whereby the gas-suction jet is emitted in such a direction in relation to the contour of said atomized jet as to increase substantially the initial width of the latter jet by suction.

2,530,207
CLOTHES HANGER
George Roman, New York, N. Y.
Application December 8, 1947, Serial No. 790,385
2 Claims. (Cl. 211—89)



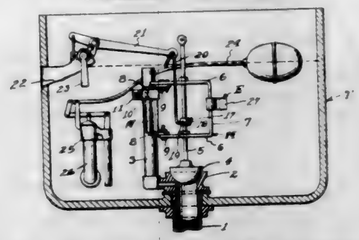
2. A garment hanger, comprising a cross-sectionally Z-shaped first plate having substantially parallel spaced leg portions and a connecting portion between said leg portions, one of said leg portions serving to mount said plate on an upright support, and another plate between said leg portions hingedly connected at one end with said other leg portion and being normally spring-closed against the latter and adapted to cooperate therewith to clamp a garment therebetween, said other plate having an extension beyond the end of said other leg portion which is depressible for the placement of a garment in, or its removal from, clamping relation with said other plate and other leg portion.

2,530,208
SLAB AND SAWDUST BURNER FORMED OF PREFABRICATED PANEL SECTIONS
Chester V. Sass, Redding, Calif.
Application June 23, 1948, Serial No. 34,613
2 Claims. (Cl. 110—18)



1. A burner of the class described comprising a substantially frusto-conical body formed of prefabricated panel sections tapering upwardly and joined in abutting relation, said body being open at the top, a dome frame on and anchored to the body over the open top, a screen covering over the dome frame, horizontal frameworks within the body against which said panel sections are laid and anchored, one of said frameworks adapted to support a screen, a clover leaf draft air supply means at the bottom of the body having grates, said body adapted to rest on and be anchored to a foundation embedded in the ground, the body having spaced openings around the same at the bottom, doors for said openings adapted to be set at an outward angle, baffles extending at an angle inwardly from the openings at the sides thereof opposite the doors, said body having a continuous opening therethrough around the same spaced from the top, and spaced apart inner and outer frusto-conical baffles for deflecting the air entering said opening upwardly at the inside.

2,530,209
VALVE ROD GUIDE FOR FLUSH TANKS
Stanford W. Sincomb, El Paso, Tex.
Application May 3, 1948, Serial No. 24,828
2 Claims. (Cl. 4—57)



1. In a flush tank mechanism, including the float arm, the flush valve rod and the overflow pipe, a vertically elongated bracket adjustably clamped to said overflow pipe, laterally offset ears at the upper and lower ends of said bracket, guide arms extending from said ears and having

aligned apertures slidably engaged by said valve rod, means pivotally connecting said guide arms with said ears, means rigidly coupling the arms for unitary pivotal movement and means for securing said guide arms in positions of adjustment relative to said bracket necessary to accurately align said valve rod with the center of the flush valve seat in the bottom of the flush tank.

2,530,210

PRODUCTION OF ENZYMES IN SUBMERGED CULTURES OF BACTERIA

Carl V. Smythe, Moorestown, N. J., and Billy Blandin Drake and Clifford E. Neubeck, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application January 23, 1947, Serial No. 723,888
7 Claims. (Cl. 195—96)

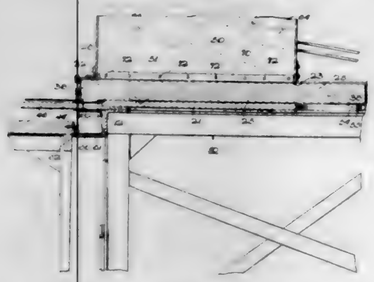
1. A method for producing proteolytic and amylolytic enzymes by submerged culture which comprises growing at temperatures of 30° to 40° C. and at a pH between six and nine enzyme-producing strains of bacteria selected from the class consisting of *Bacillus mesentericus* and *Bacillus subtilis* in an aqueous medium containing starch and protein and having dispersed therein discrete particles of broken cereal grain, supplying said medium with gaseous oxygen at a rate at least twice as great as the rate of consumption as shown by evolvement of carbon dioxide, sweeping out carbon dioxide, and mechanically agitating the aqueous medium to maintain practically uniform conditions throughout said medium.

2,530,211

CONTAINER FILLING MACHINE

Albert H. Stebbins, Little Rock, Ark.

Application April 18, 1947, Serial No. 742,431
7 Claims. (Cl. 226—107)



1. A container filling machine comprising a hopper having a floor and a side outlet opening at the level of the floor, a compartment adapted to hold a predetermined quantity of material and positioned to receive the material from said hopper outlet opening, said compartment having a bottom with its top surface flush with said floor and provided with a plurality of aligned discharge openings, means for normally retaining said openings closed, a piston slidable across the bottom of said hopper toward said outlet opening to force material therethrough into said compartment, and a linkage system interconnecting said last-named means with said piston, whereby after said compartment is filled with material said piston serves to simultaneously move said means from said openings and discharge the material therethrough into said containers.

2,530,212

FOODS

Le Roy Victor Strasburger, Baltimore, Md.

No Drawing. Application March 4, 1949, Serial No. 79,718
6 Claims. (Cl. 99—204)

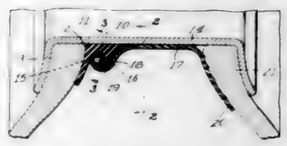
1. A method of improving the color characteristics of foods prepared from dehydrated edible legumes selected from the group consisting of peas and beans, comprising dry heating said legumes sufficiently to darken them upon subsequent hydration, and subsequently hydrating said legumes.

2,530,213

TUBELESS TIRE

Roy R. Sutton, Winfield, Kans.

Application May 24, 1948, Serial No. 28,822
1 Claim. (Cl. 152—363)



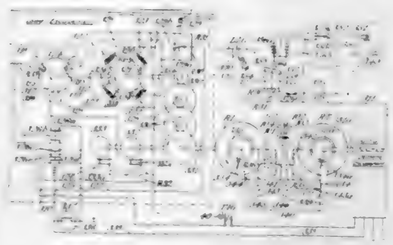
A tubeless tire comprising a casing having thickened rim engaging portions, an annular reinforcement substantially L-shaped in cross-section secured along the inner side edge of one of said rim engaging portions with one of its sides adapted to lay flat against the surface of the rim, said one side of said reinforcement having a groove formed in its outer surface, a flap having one of its side edges secured along the inner side edge of the other of said rim engaging portions and adapted to span the gap between the latter, and a coiled spring housed within the other side edge of said flap and adapted to seat in said groove when said casing is mounted on said rim and inflated.

2,530,214

APPARATUS FOR COMPARING THE RATES OF OPERATION OF TWO CONTACT DEVICES

Bernard André Vuille, Watford, England, assignor to Watford Electric & Manufacturing Company Limited, Watford, England, a British company

Application August 14, 1944, Serial No. 549,431
In Great Britain August 6, 1943
8 Claims. (Cl. 175—183)



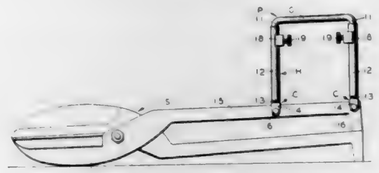
1. In an apparatus of the class described, the combination of two potentiometers connected in parallel and having each a movable contact, a constant-speed motor-device coupled to the contact of one potentiometer to move it from one end thereof at a uniform rate, a motor-device operable at a rate varying with an electric load coupled to the contact of the other potentiometer to move it from one end thereof at a rate varying with said electric load, an electrical connection between the ends of the potentiometers, means for resetting both contacts to their initial positions at the end of each of a series of periods, means for applying a potential across the potentiometers, a potential divider having an adjustable contact and connected between the contact of one potentiometer and the end thereof from which the contact was advanced, and means responsive to a difference of voltage connected between the contact of the potential divider and the contact of the other potentiometer.

2,530,215

UPSTANDING HANDLE FOR FLOOR SHEARS

Anton Zidar, Cleveland, Ohio

Application December 1, 1947, Serial No. 788,978
3 Claims. (Cl. 30—173)



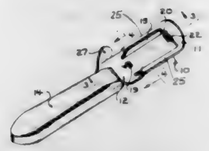
1. The combination with a floor shear having two long handle levers arranged one above the other when in use, of an inverted substantially U-shaped extension handle having two substantially parallel side bars and a cross connecting top bar between the side bars at one end of the latter, and means securing the other ends of the side bars to the handle lever which is uppermost when the shear is in use, to maintain the extension handle upright.

2,530,216

CORN AND CALLOUS REMOVER

Gustave Appel, New York, N. Y.

Application June 26, 1945, Serial No. 601,595
5 Claims. (Cl. 30—27)



1. In a corn and callous remover having a strip-like member formed with a slot to be aligned with a complementary hole formed in a razor blade and a bottom plate having a lug extended through the aligned slot and hole, means on the strip-like member for retaining the lug against disengagement from the aligned slot and hole, comprising an elongated bolt-like member having the side edges of its rear end beveled, the strip-like member being formed with a groove in its top face in which the beveled rear end of said bolt-like member is slidably engaged, the lug being formed with a keeper opening on a level with the top face of the strip-like member, said bolt-like member having its front end shaped to pass through said keeper opening when said bolt-like member is slid toward the lug.

2,530,217

CONDUCTIVE COATING COMPOSITIONS

Lewis A. Bain, Jr., Berwyn, Ill., assignor, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 4, 1946, Serial No. 659,663
1 Claim. (Cl. 106—49)

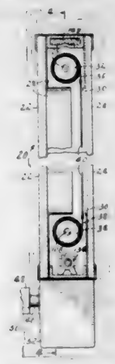
A composition for forming an electrically conductive coating on a dielectric surface comprising from 30% to 40% of silver flakes having maximum dimensions of 40 microns; from 1.5% to 4% of glass flux consisting of 75% to 94% of lead oxide, 5% to 12% of boric oxide, up to 5% lead fluoride, and up to 7% of silica; a water soluble resinous binder from .5% to 2%; and the balance a vehicle consisting essentially of water.

2,530,218

WINDOW SHADE CONSTRUCTION

Clarence G. Barrows, Hamden, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware

Application April 22, 1946, Serial No. 663,794
16 Claims. (Cl. 160—98)



1. In a window construction, the combination of, a pair of window panes positioned in spaced parallel relationship, a rigid frame construction providing mounting means for said panes and forming with said panes a sealed enclosure, a pair of shade rollers rotatably mounted within said sealed enclosure in parallel relationship respectively at the top and bottom edges of said panes, a pair of shades wound respectively on said shade rollers, a pair of connecting strips at the respective side edges of said panes connecting the free ends of the two shades together whereby the complete winding of the strips onto one roller unwinds the shade from the other roller and draws the shade between the panes to cover the window, a gear assembly to rotate said rollers and thereby wind and unwind the shades as desired, and means to operate said gear assembly.

2,530,219

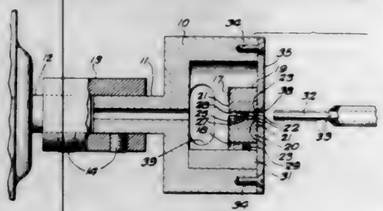
DEVICE FOR REMOVING AN INSULATING COATING FROM COATED WIRE

Joseph F. Bartusek, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 10, 1944, Serial No. 539,777
5 Claims. (Cl. 15—3)

1. A device for removing an insulating coating from a wire by shearing and frictional action comprising a rotary head, a pair of members

having a normally constantly fixed operating space between plane wire engaging parallel faces thereof carried by said head, adjustable means for positively limiting a radial outward rectilinear movement of one of said members to provide said



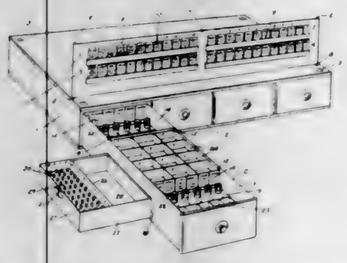
fixed space between said members, the other member being fixed, means for yieldably urging said movable member toward said limiting means, and means for rotating said head on an axis passing through the space between said faces.

2,530,220

PARTS STORING CABINET

John A. Belcher, Winnipeg, Manitoba, Canada

Application November 22, 1946, Serial No. 711,551
2 Claims. (Cl. 312—149)



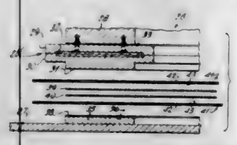
1. In a parts storing cabinet: a casing having a plurality of similar drawers slidable therein; each of said drawers having two vertically spaced partitions passing centrally thereacross and supporting an elevated horizontal partition therebetween to form a visible storage space, when the drawer is open, having a floor of relatively ogee shape from the front to the back of said drawer; and an auxiliary drawer slidable through the side of said first mentioned drawer and receivable in the space below said horizontal partition.

2,530,221

DEVICE FOR PRESSURE AND HEAT SEALING OF PLASTICS

Sydney E. Bender, Brooklyn, N. Y.

Application March 3, 1945, Serial No. 580,910
5 Claims. (Cl. 154—42)



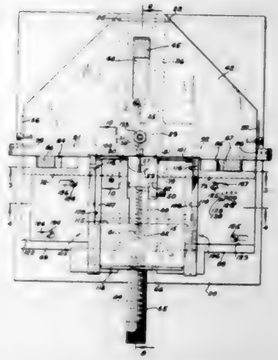
1. In a device for permanently heat-sealing two or more items of thermoplastic material, two cooperating pressure members having precisely coacting pressure surfaces, the pressure surface of one of the members being substantially an exact negative reproduction of the pressure surface of the other member, heat absorbing and heat dissipating elements for interposition between the pressure surfaces and the outer faces of the thermoplastic items to be heat-sealed, and means for applying heat to these items while being held between said elements under pressure by said surfaces.

2,530,222

RECIPROCATING BENDER WITH SLIDING SIDE SHAPERS

Edward J. Bohaboy, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 20, 1945, Serial No. 606,218
13 Claims. (Cl. 153—34)



11. An article forming apparatus comprising a first forming member about which a substantially straight blank is to be formed and which is movable in one direction, a movable second forming member having a recess for receiving a portion of said first forming member and for cooperating therewith to bend said blank into U-shape, a third forming member laterally disposed adjacent said second forming member and movable in a path substantially perpendicular to said one direction and adapted to cooperate with said first forming member to further form said blank, means for supporting a blank between said first forming member and said other forming members, said forming members being arranged so that the first forming member may be moved into engagement with the second forming member to bend a blank into U-shape at one position and then advanced to and stopped in another position in the path of movement of said third forming member and causing the movement of said second forming member therewith, whereby said third forming member may be actuated to further form said blank, and means for sequentially actuating said first and third forming members.

2,530,223

OIL WELL FILTER

Elton H. Breaux, Rayne, La.

Application October 1, 1947, Serial No. 777,235
1 Claim. (Cl. 166—7)

A filter for oil well casings comprising inner and outer perforated tubes, a chamois skin filler between the tubes, and means securing the assembled tubes and filler to a casing, said means comprising upper and lower pipe sections welded to the opposite ends of the tubes, said upper pipe section being secured to the lower end of a casing

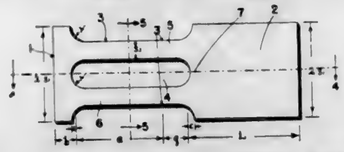
and the lower pipe section being closed at its lower end.

2,530,224

MAGNETOSTRICTION TRANSDUCER

Leon W. Camp, Glendale, Calif., assignor, by mesne assignments, to The Pennsylvania Research Corporation, a corporation of Pennsylvania

Application August 2, 1949, Serial No. 108,211
8 Claims. (Cl. 171—209)



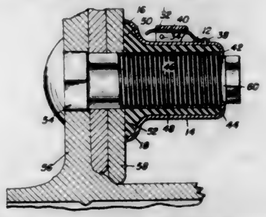
1. In a magnetostriction oscillator system, a magnetostriction transducer element comprising a stack of laminations acoustically vibratory through one end thereof, a constricted section intermediate the ends of said stack and a slot extending through the constricted section longitudinally of said stack one end of the slot being disposed substantially in a transverse plane through the center of mass of the stack of laminations to a position adjacent the acoustically vibratory end thereof.

2,530,225

CAM ACTUATED CLAMP

Anthony M. Campanelli, New York, N. Y.

Application January 21, 1949, Serial No. 71,784
9 Claims. (Cl. 85—36)



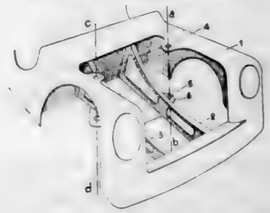
1. A cam actuated clamp comprising a sleeve having a longitudinal slot, means slidably connecting the portions of the sleeve immediately adjacent the slot, a cam pivoted on said connecting means engaging the sleeve to contract the same, and means holding the cam locked against the sleeve.

2,530,226

MOTOR VEHICLE BODY WITH INDEPENDENT WHEEL SUSPENSION

Gaston Chausson, Asnieres, France, assignor to Societe Anonyme des Usines Chausson, Asnieres, France, a company of France

Application December 3, 1945, Serial No. 632,490
In France May 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 13, 1963
3 Claims. (Cl. 296—28)



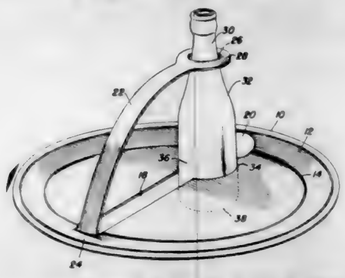
1. In an automotive vehicle having a shell-like body and two longitudinal frame members in the front, the body having two inwardly directed and aligned flanges in a substantially horizontal plane above the frame members, each flange having an opening; front wheel suspension means for the vehicle comprising a cross-piece transversely disposed between the frame members and extended outwardly on either side thereof, each extended end of the cross-piece having an opening aligned with the opening in the corresponding flange, means coacting with the aligned openings in the flanges and cross-piece rotatably supporting a wheel on each side of the body, and means dampening the forces transmitted by the wheels to the flanges and cross-piece.

2,530,227

ATTACHMENT FOR SOFT DRINK BOTTLES

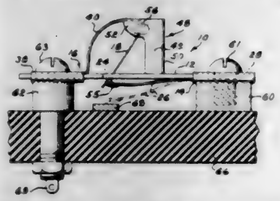
James B. Cheek, Madison, Fla., assignor of forty per cent to Rosa S. Cheek, Madison, Fla.

Application December 21, 1948, Serial No. 66,505
2 Claims. (Cl. 65—53)



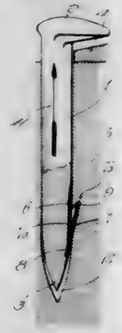
1. An attachment for soft drink bottles comprising a circular base member having a diametrically extending slot, said slot including an enlarged portion intermediate its ends adapted to receive the lower portion of a bottle, a flexible arm hinged at one end to said base member adjacent one end of said slot, said arm including an eye portion at its free end adapted to receive the neck portion of a bottle, and an enlarged recess in said base member communicating with the other end of said slot, said arm and said eye portion being of a width to fit tightly within said slot and said enlarged recess respectively when said arm is positioned flat within said base member.

2,530,228
ELECTRICAL PROTECTIVE DEVICE
Anthony J. Cihlar, Riverside, Ill., and William E. Moore, St. Paul, Minn., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 8, 1949, Serial No. 114,628
5 Claims. (Cl. 200—113)



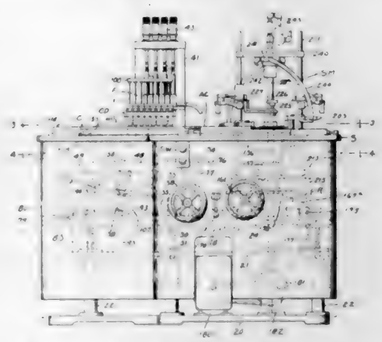
1. An alarm fuse comprising a mounting strip of insulating material, an alarm spring, means for securing one end of said alarm spring to one side and one end of said mounting strip to form a terminal member, said alarm spring having its other end spaced from said mounting strip and adapted to be flexed toward said strip to a closed position, an indicator spring having end portions bent perpendicularly in opposite directions to an intermediate shank portion thereof, means for securing one end of said indicator spring to the opposite side and the opposite end of said mounting strip to form a terminal member and to support the indicator spring with the shank portion thereof extending transversely to said mounting strip in an open position and with the free end thereof spaced from the mounting strip and forming a signal element, said indicator spring being capable of being flexed to a closed position with the end of the signal element in engagement with said mounting strip, and a fusible member connected to said alarm spring and said indicator springs for holding said springs flexed in closed position.

2,530,229
RAILROAD SPIKE
Harry H. Clark, Los Angeles, Calif.
Application February 17, 1947, Serial No. 729,106
1 Claim. (Cl. 85—23)



In a railway spike a spike having a straight side shank portion curved on at least two opposite sides and tapering to a penetrating point, one of said sides of the spike being recessed at the juncture of the straight shank portion and the curved portion which tapers to said penetrating point, and a spring strip having one end thereof secured in the lower end of the recess in the side of the spike immediately below the juncture of the straight shank portion and the curved portion which tapers to said penetrating point and with the other end thereof normally extending in a plane substantially tangential to the curved tapering side of the penetrating point of said spike, the upper end of said spring strip being yieldably displaceable into and out of said recess immediately above the juncture of the straight side of the shank and the tapered portion thereof as said spike is driven to a secured position and when said spike tends to work loose from the secured position, said spring strip having the external surface thereof coplanar with the curved portion of the side of the spike immediately below the juncture of the straight side shank portion and the curved portion thereof that tapers to the penetrating point and normally projecting in a plane substantially tangent to the curved tapering terminus of the spike to a free knife-edge end immediately above the juncture of the straight side of the shank and the curved portion thereof that tapers to the penetrating point and in which said spring strip when yieldably forced into the recess is substantially coplanar with the straight side of the shank of the spike.

2,530,230
COMBINED FILLING AND SEALING MACHINE
Frank J. Cozzoli, Plainfield, N. J.
Application July 24, 1948, Serial No. 40,488
26 Claims. (Cl. 226—19)

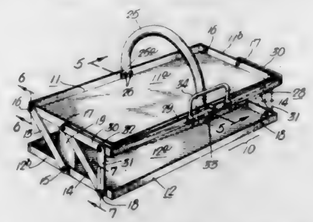


1. A combined tube filling and sealing machine having tube filling means and relatively movable tube sealing means combining a tube support common to said filling means and to said sealing means, means operative to move a tube along said support to a tube filling station and to hold a tube at said station during the filling operation, means operative to move the tube further along said support away from said filling station and into tube sealing relation with said relatively movable tube sealing means, said sealing means including a movable burner, means operative to move the tube along said support in phase relation with said movable burner for a sufficient period of time to effect sealing of the tube, and means thereafter operative to move the tube along said support away from the burner at the completion of the formation of the seal.

26. The method of filling glass tubes in groups and heat sealing the tubes individually which comprises placing the tubes to be filled on a track in uniformally spaced relation, indexing the tubes along the track a distance equalling the spacing of a group of two or more tubes to position where-

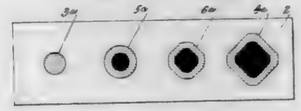
at the individual tubes of the group are brought into registry with individual spouts of a group of two or more similarly spaced filling spouts and holding the group of tubes in said position until they are filled, moving the filled tubes as a group along the track away from the group of filling spouts to a station adjacent tube sealing means and simultaneously presenting a succeeding group of empty tubes to the spouts, then moving the filled tubes continuously along the track individually and in succession and heat sealing the open end of each tube of the group within the time period allotted for the filling and indexing cycle.

2,530,231
DISPLAY CARRIER
Vernon F. Detweiler, Lansdale, Pa.
Application November 7, 1949, Serial No. 125,985
7 Claims. (Cl. 224—48)



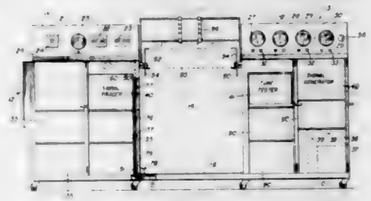
1. A display carrier comprising upper and lower trays arranged normally in superimposed relation, parallel links pivotally interconnecting said trays and having their connections to the upper tray disposed substantially forward of their connections to the lower tray to provide swinging movement of the lower tray relative to the upper tray to and from said superimposed relation thereof and a position in which the lower tray is projected forwardly in stepped relation to the upper tray, a bracket for actuating the lower tray pivotally connected to the upper tray and to said lower tray, said bracket having a portion arranged in the superimposed relation of the trays to lie laterally adjacent the upper tray, and latch means secured to the upper tray and releasably engageable by said bracket portion to retain the trays in said superimposed relation.

2,530,232
METHOD OF PREPARING INTAGLIO PRINTING SURFACES
William M. Devers, Springfield, Ohio
Application November 20, 1945, Serial No. 629,749
13 Claims. (Cl. 95—5)



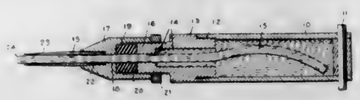
8. A positive half-tone transparency of a subject adapted for use in the preparation of an intaglio printing surface, said transparency depicting the tones of the subject by dots varying in size in accordance with the varying tones of the subject, the larger of said dots having opaque silver grain centers and transparent colored peripheral fringes surrounded by a field consisting of a colorless transparent area.

2,530,233
REPAIR UNIT FOR RADIO SETS
Willie L. Dockray and Roger H. Bruesewitz, Eau Claire, Wis.
Application July 23, 1947, Serial No. 762,944
8 Claims. (Cl. 250—20)



1. A repair unit for radio sets provided with loud speakers, comprising a movable carriage, including a platform and two cabinets with vertical parallel side walls on the ends of the platform, the parallel vertical side walls of the cabinet facing each other at a distance, said cabinets being provided with instrument panels, projecting therefrom, longitudinally movable and rotatable supporting means projecting into the space between the two cabinets facing each other to a variable and adjustable extent, for holding a section of the radio set to be repaired in the space above the platform at a selected point in a desired angle or position, and further supporting means for holding another section of the radio set arranged at a distance from said first named supporting means and rotatable around the axis of rotation of the first named supporting means, said further supporting means being provided with means for adjusting and fixing the angular position of the said further supporting means with respect to the first named supporting means.

2,530,234
PORTABLE FLUID APPLICATOR WITH CONTROLLED FEED
Julian Judson Duncan, Garden City, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1946, Serial No. 680,387
3 Claims. (Cl. 15—138)



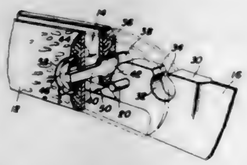
3. A flow metering device including a wick; a chambered body; a bushing threading into said chambered body and having a central bore; a hollow sleeve having an enlarged recess therein and a conical end; an elongated hollow tip of approximately uniform external diameter and secured to said end; said bushing having a shank extending a predetermined distance into said recess and forming a chamber within the sleeve; a resilient member having a passageway of uniform diameter in axial alignment with the central bore of the bushing and encircling a portion of the wick and occupying the entire space within the chamber of the sleeve; said wick extending from said chambered body through the central bore in the bushing, the passageway in the resilient member, the sleeve, the elongated tip, and extending a predetermined distance beyond the

end of said tip; means for suspending the device in the vertical position while adjusting the sleeve to a predetermined position for constricting the passageway in the resilient member to constrict the wick to control the flow of fluid; and means for locking said sleeve in the predetermined position.

2,530,235
CLINICAL THERMOMETER
Logan Eisele, Nashville, Tenn.
Application August 8, 1947, Serial No. 767,437
7 Claims. (Cl. 73—371)

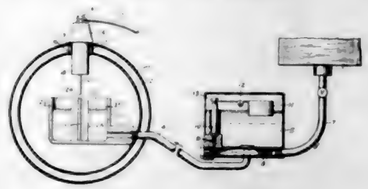
1. The combination with a clinical thermometer having a mercury column and comprising a magnifier therefor, of a separate magnifying element having a colored spot on its underside which disperses color across its surface when focused in the line of vision of the user, a pillar on the element, a sleeve embracing the outer end of the thermometer and said pillar and a binder of cement uniting said pillar and thermometer with the two magnifiers in a common plane of view.

2,530,236
POCKET KNIFE
Eric C. Erickson, Titusville, Pa., assignor to Queen Cutlery Company, Titusville, Pa.
Application July 27, 1948, Serial No. 40,800
1 Claim. (Cl. 30—159)



In a pocket knife, the combination of an elongated casing, a blade pivoted at one end thereof in said casing and swingable outwardly therefrom, said blade being provided adjacent its pivoted end with a circular recess and with a relatively narrow passage extending from said recess to a longitudinal edge of the blade, a keeper pin slidable transversely of said casing and including a cylindrical portion receivable in said recess, and a sectionally reduced portion extending centrally from said cylindrical portion and receivable in said passage, the end of said cylindrical portion adjacent said sectionally reduced portion affording a pair of cam surfaces at the opposite sides of the sectionally reduced portion, and resilient means on said pin for sliding the same to a position wherein said cylindrical portion is in said recess, said passage having inwardly convergent side walls engageable with said cam surfaces to effect sliding of said pin against said spring while the blade is swung into said casing.

2,530,237
OIL BURNER VAPORIZER AND IGNITER
Harold L. Finley, Woodhaven, N. Y., assignor, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York
Application April 9, 1947, Serial No. 740,356
4 Claims. (Cl. 158—28)

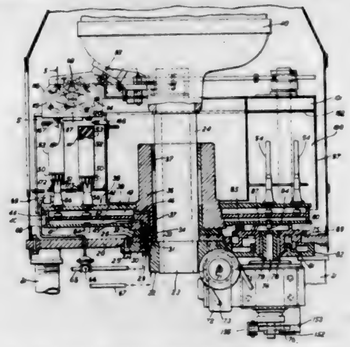


1. In an oil burner of the type comprising a combustion casing, an oil vaporizing bowl mounted in said casing and having an open upper end and means for supplying oil to and for maintaining a substantially constant normal oil level in said bowl below said open end; the combination of an electrode mounted on said casing and having a sparking portion extending substantially in alignment with the vertical axis of said bowl and terminating above said normal oil level in said bowl, an oil elevating and retaining device mounted in said bowl adjacent the bottom thereof, extending upwardly from said bottom and terminating adjacent the open upper end of said bowl in spaced relation to the end of said electrode and above said normal oil level, said device comprising a rough surface body of liquid absorbent material of low specific heat and having capillary openings therein and substantially throughout communicating with said rough surface and having a vertical longitudinal opening therein substantially in alignment with said electrode, a second electrode extending vertically upwardly through said vertical opening, snugly fitting therein and terminating above the upper end of said oil elevating and retaining device and in spaced relation to and adjacent to the end of the sparking portion of said first mentioned electrode.

2,530,238
SUPPORT FOR HOLLOW ARTICLES PROVIDING MEANS TO CONTROL THE COOLING OF THE MATERIAL WITHIN THE ARTICLE
Erwin E. Franz, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application July 26, 1944, Serial No. 546,708. Divided and this application May 19, 1945, Serial No. 594,611
4 Claims. (Cl. 226—70)

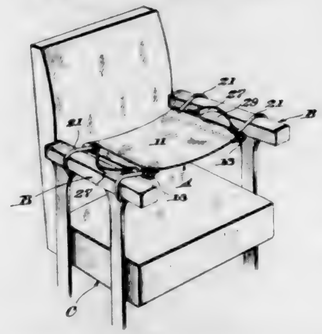
1. In a machine for loading a casing surrounding a hollow article with an insulating compound to hermetically seal the article in the casing, the machine comprising a hollow support formed to removably fit into the hollow article and thereby support the article with its casing, a supply unit to support a supply of the insulating compound in a molten state, a valve operable to allow a given quantity of the molten insulating compound to flow from the unit into the casing to fill the casing and surround the article therein with the molten compound, and means to circulate a cooling medium, having a temperature lower than the temperature of the atmosphere surrounding the casing, through the hollow support to cool the support and the hollow article

and thereby cool the inner portion of the compound adjacent the article in advance of the



cooling of the outer portion thereof adjacent the casing.

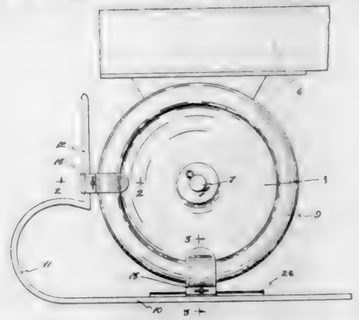
2,530,239
FOLDING SEAT
Selby J. Gillis and Loomis Westcott Simons, Arabi, La.
Application November 25, 1946, Serial No. 712,116
9 Claims. (Cl. 155—131)



1. A portable seat assembly adapted to be suspended from the arms or sides of a conventional chair to serve as an auxiliary seat, which comprises a flexible seat web having end and side edge portions, rigid means transversely extending across the seat-web for rigidly holding the seat-web against longitudinal flexure, means for mounting the seat-web on the said transverse means, and suspension hooks mounted in the said transverse means, there being a hook adjacent to each lateral edge of the seat-web, said hook members being mounted to be turned from an extended operating position to a retracted inoperative position flat against the seat-web and entirely between the lateral edges of the seat-web.

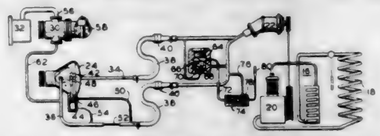
2,530,240
SLEIGH RUNNER ATTACHMENT
John H. Graham, Spokane, Wash.
Application February 24, 1948, Serial No. 10,253
4 Claims. (Cl. 280—13)

1. A sleigh runner adapted for attachment to wheeled vehicles such as children's wagons, baby carriages and the like, comprising a runner bar having a substantially straight load bearing portion, a nose portion curved upwardly and rearwardly over the load bearing portion, and an upwardly extending straight portion at the upper rear end of the nose portion said upwardly extending straight portion being at substantially right angles to the load bearing portion, to provide an adjustable mounting means for a vertical-



ly sliding clamp, a wheel receiving clamp adjustably mounted on the load bearing portion having clamp portions for detachably receiving the tire of a vehicle wheel therebetween, and a second wheel receiving vertically adjustable clamp on the upwardly extending portion having clamp portions for detachably receiving the tire of a vehicle wheel therebetween.

2,530,241
POWER TRANSMISSION FOR REFRIGERATED MOTOR VEHICLES
Ferris T. Harrington, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application November 15, 1945, Serial No. 628,821
5 Claims. (Cl. 62—117)

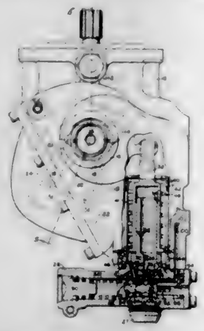


1. In a multi-sectioned vehicle having a power plant on one section and a load space and refrigerating means therefor on another section, the combination of a positive displacement hydraulic pump on the one section and driven by said power plant, a positive displacement fluid motor on the other section and driving the refrigerating means, control means on the other section responsive to refrigeration demand to control operation of the motor, and two fluid lines connecting the pump and motor in a closed circuit and constituting the sole connection between the pump on the power plant section and the fluid motor and control means on the load section.

2,530,242
PUMP OR MOTOR FOR POWER TRANSMISSIONS
Ferris T. Harrington, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application November 16, 1945, Serial No. 629,039
7 Claims. (Cl. 103—38)

1. A fluid energy translating device of the variable displacement type comprising in combina-

tion a casing having high and low pressure terminals, a shiftable member for varying the displacement of the device and a discharge outlet for circulation of a small flow of fluid for cooling purposes, a volume control mechanism comprising pressure responsive actuating means connected to the member for shifting the same and having an expansible pressure chamber in com-



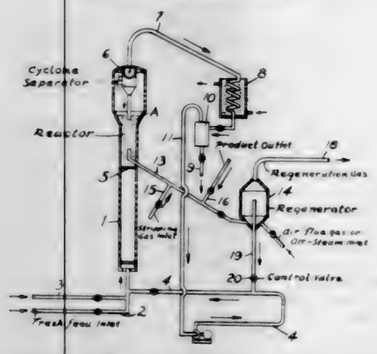
munication with the high pressure terminal of the device, and means forming a by-pass passage hydraulically connected to said chamber and controlled by the actuating means, said by-pass passage being connected to said discharge outlet through the interior of the casing and being opened and closed by the actuating means at predetermined points within its range of movement.

2,530,243

HYDROCARBON SYNTHESIS

Clinton H. Holder, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 7, 1946, Serial No. 695,525
1 Claim. (Cl. 260—449.6)



Improved hydrocarbon synthesis process which comprises introducing feed gases comprising carbon monoxide and hydrogen into a reaction zone containing an iron-type synthesis catalyst tending to form fixed carbon deposits and to disintegrate at synthesis conditions, said catalyst comprising finely divided solid particles which are maintained in a fluid ebullient state within the reaction zone due to the velocity of the upflowing feed gases, said zone containing solid non-fluidizable packing elements in its upper portion, maintaining temperature and pressure conditions within said reaction zone to produce hydrocarbon constituents containing more than one carbon atom in the molecule, said conditions being conducive to the formation of carbon on said catalyst, whereby the carbon content of said catalyst increases, and increases the buoyancy of said catalyst, catalyst particles which have become more buoyant tending to concentrate in the upper packed areas of said reaction zone and relatively less carbonized and less buoyant catalyst particles tending to concentrate in the lower areas of said reaction zone, withdrawing from said upper packed areas of said reaction zone the more buoyant catalyst particles, passing the same to a regeneration zone, subjecting the catalyst particles in said regeneration zone to a treatment with an oxidizing gas at conditions adapted to remove carbon, and returning regenerated catalyst particles from said regeneration zone to said reaction zone at a point in said reaction zone below said packed area and free of packing elements.

2,530,244

PROCESS OF DEGUMMING AND BLEACHING RAMIE

Søren J. F. Jensen, Shanghai, China

No Drawing. Application November 21, 1946, Serial No. 711,478
4 Claims. (Cl. 92—17)

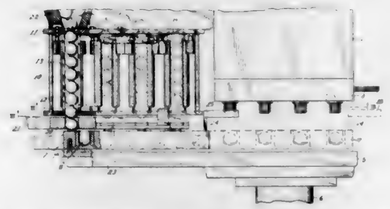
1. A process of degumming and bleaching ramie which comprises (1) soaking such ramie for at least several hours in a solution of an aluminum salt which solution is of a concentration of only a minor fraction of one percent, separating the so treated ramie and such solution from each other, (2) placing the ramie in a caustic alkali solution of about 1% concentration figured as caustic soda, boiling such solution for about two hours, and continuing contact of such ramie with such solution for a period of several hours in all, separating the so treated ramie and the said solution from each other, (3) immersing the so treated ramie in an acid solution of a concentration chemically equivalent to hydrochloric acid solution of only a minor fraction of one percent, boiling such solution for about two hours and separating the so treated ramie and the acid solution from each other, (4) treating the so treated ramie with a solution of an oxidizing salt allowing to stand for some hours, boiling for some hours, again letting stand for some hours, then separating the so treated ramie and the solution from each other, (5) then treating such ramie with a caustic alkali solution of a fraction of a percent concentration, boiling such solution and allowing the ramie and such solution to stand in contact with each other, the said second treatment with caustic alkali solution lasting for several hours in all, and separating the so treated ramie and the alkaline solution from each other, then treating said ramie with an acid solution, of an acid concentration which is substantially less than that used in the above mentioned acid treatment, and boiling said acid solution during such treatment, separating the treated ramie and the acid solution from each other, (7) and treating such ramie with an oxidizing salt solution which is of a concentration substantially lower than that used in the above mentioned treatment with solution of oxidizing salt, boiling said solution during said treatment, said treatment with dilute oxidizing salt solution lasting for several hours, separating said ramie and said solution from each other, and washing the treated ramie and drying same, whereby substantially pure and substantially bleached ramie fiber is produced.

2,530,245

PLASTIC MOLDING APPARATUS

Howard A. Kelly, Sr., Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a corporation of West Virginia

Application June 5, 1946, Serial No. 674,581
7 Claims. (Cl. 18—1)



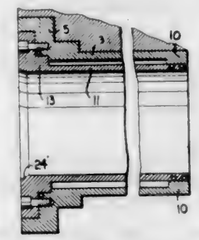
1. In combination with a plastic molding machine including a press having a plurality of spaced mold cavities, hopper means for simultaneously feeding and electrostatically heating a plurality of pre-forms comprising a plurality of pairs of vertically extending electrodes defining spaced vertical channels, a transfer plate extending below said channels and having a plurality of apertures having the same spacing as said channels and adapted to be moved horizontally into or out of registry with said channels in timed succession so as to laterally discharge the bottom pre-forms of said stacks, a mold plate underneath said transfer plate having a plurality of mold cavities which have the same spacing as said transfer plate and into which mold cavities the bottom pre-forms of said stacks may be singly fed in succession by the horizontal reciprocating movement of said transfer plate, and means for moving said mold plate horizontally, after being charged with pre-forms, into position for engagement with a second mold plate of said press to effect the molding operation.

2,530,246

SLEEVE TYPE SLUSH PUMP LINER

Ruel Kirkpatrick and Henry B. Young, Houston, Tex., assignors to Mission Manufacturing Company, Houston, Tex.

Application June 2, 1947, Serial No. 751,924
4 Claims. (Cl. 309—3)



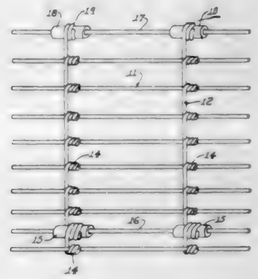
1. A compound pump cylinder liner comprising, a tubular sleeve adapted to fit in the cylinder, an outwardly extending counterbored flange on one end thereof, a piston-receiving tubular liner adapted to pass through said sleeve, an outwardly extending flange on an end of said liner adapted to fit within the counterbore of said sleeve flange to position said liner therein, seal means disposed between said flanges, means extending through said liner flange and into said sleeve flange for securing the two together and seal means disposed between said sleeve and said liner adjacent the other end thereof to maintain a seal between said sleeve and said liner while permitting relative axial motion therebetween.

2,530,247

WIRE FENCE FABRIC HAVING SELECTED HORIZONTAL STRANDS ELECTRICALLY INSULATED

John C. Koonz, Fort Wayne, Ind.

Application July 13, 1946, Serial No. 683,346
3 Claims. (Cl. 256—10)



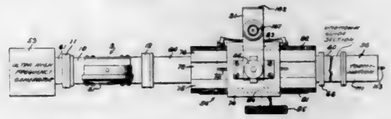
1. A pre-woven wire fence fabric including a plurality of horizontally spaced vertical wire strands, a plurality of vertically spaced horizontal wire strands, said vertical wire strands each having twisted portions around each of said horizontal wire strands at their intersections, and insulators positioned intermediate certain of said horizontal and vertical wire strand intersections and connected to said vertical strands, and an electrically chargeable wire extending through said insulator.

2,530,248

METHOD AND APPARATUS FOR MEASURING ELECTRICAL PROPERTIES

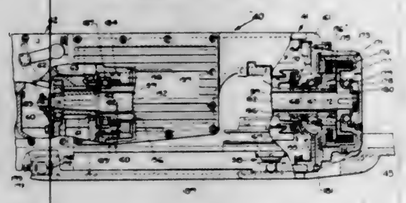
Harry R. Larson, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Original application April 16, 1945, Serial No. 588,702, now Patent No. 2,491,669, dated December 20, 1949. Divided and this application March 12, 1947, Serial No. 734,287
18 Claims. (Cl. 175—183)



5. An apparatus for measuring electrical characteristics which comprises a radio frequency generator, a radio frequency attenuator coupled to said generator, a traveling standing wave detector coupled to said radio frequency attenuator, means for measuring the value of the voltage of a standing wave at the point of detection, a totally absorbing termination, means to connect an unknown test specimen between said traveling standing wave detector and said termination, and means on said attenuator for indicating the amount of attenuation required to reduce the maximum voltage value determined by said measuring means at one point of detector travel to the minimum value measured at another point of detector travel.

2,530,249
MINING MACHINE LUBRICATION
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application April 6, 1945, Serial No. 586,979. Divided and this application June 25, 1946, Serial No. 679,303
10 Claims. (Cl. 184—6)

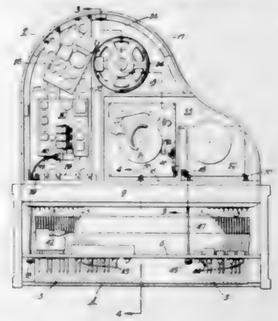


1. In a mining machine, a motor having a hollow rotor shaft, spaced bearings supporting said rotor shaft, a drive shaft extending through said rotor shaft, means interconnecting said shafts including a clutch, spaced bearings supporting said drive shaft, an enclosure for said clutch and one of each of said rotor and drive shaft bearings, an oil passageway in said drive shaft communicating with said enclosure, and means for delivering oil to said passageway and by it to the bearings in said enclosure, said drive shaft and rotor shaft cooperating to provide a passageway leading from said enclosure to another of said spaced bearings whereby it is also lubricated.

2,530,250
DISPENSING COVER FOR DUST MOPS
William Gordon Leith, Arlington, Va.
Application December 4, 1946, Serial No. 714,000
1 Claim. (Cl. 15—246)

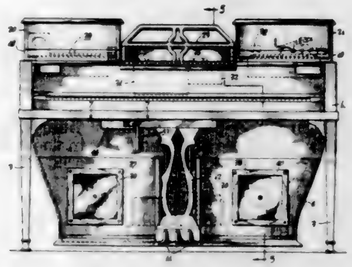
A dispensing cover for a dust-mop formed of flexible material having a smooth inperforate surface to which dust will not cling, but from which dust may be readily dislodged by agitation, said dispensing cover comprising two pear-shaped sheets having their side edges cut on compound curves, said sheets being stitched together at their edges to produce an upper end having an opening therein and a funnel-shaped lower opening, said cover being infolded at said upper end adjacent and surrounding said opening therein to provide a collar, and a draw-string in said collar, said draw-string, when tightened around a mop and mop handle, closing said collar whereby dust may be shaken out of said cover through said lower funnel-shaped opening.

2,530,251
PIANO CONSTRUCTION FOR SOUND AMPLIFICATION
Louis Luberoff, Jenkintown, Pa.
Application August 9, 1945, Serial No. 609,747
3 Claims. (Cl. 84—170)



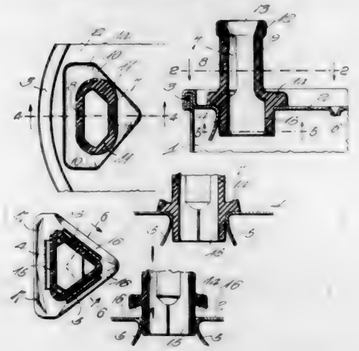
1. A piano comprising a walled structure forming a vertical chamber, said structure having front and rear vertical walls of substantial width and height, and relatively narrow side walls extending between the front and rear walls, whereby the vertical chamber defined by said walls is of substantial width and height but is of relatively narrow dimension from front to rear, a vertical sounding board and associated vertical strings disposed within said chamber, a hammer mechanism also disposed within said chamber in cooperative relation with said strings, a key board extending forwardly from the front of said chamber at the upper part thereof and including keys operatively connected with said hammer mechanism, a second walled structure forming a horizontal chamber extending from the rear of said first chamber at the upper part thereof, said horizontal chamber being of substantial horizontal area but of relatively small vertical dimension, supporting means for said second structure at the rear thereof, and at least one air passage between said vertical chamber and said horizontal chamber, whereby sounds generated by the sounding board in said vertical chamber are conveyed by said passage to said horizontal chamber for amplification by the latter.

2,530,252
MUSICAL INSTRUMENT
Louis Luberoff, Jenkintown, Pa.
Application October 11, 1948, Serial No. 53,808
7 Claims. (Cl. 84—1.02)



1. In a multi-purpose musical instrument, a spinet-type piano including a hollow body containing the piano mechanism, a hinged top structure on said body extending substantially the full width of the piano and affording access to the piano mechanism inside said body, a pair of lid-covered compartments on said top structure at the side portions thereof, each of said compartments being adapted to house a device in association with the piano, a relatively shallow lid-covered compartment on said top structure between the first-mentioned compartments, broadcast receiving equipment suspended from said top structure below the last-mentioned compartment, and control elements for said equipment disposed within the last-mentioned compartment and accessible by raising the lid of such compartment.

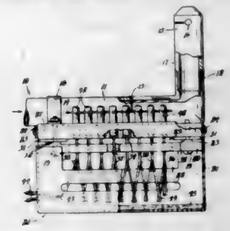
2,530,253
DRINKING SPOUT FOR CANS
Julius Maged and Charles M. Kramer, Baltimore, Md.
Application August 28, 1947, Serial No. 771,050
2 Claims. (Cl. 222—566)



1. A drinking spout for cans comprising a tubular body surrounded by an outstanding collar, the body and the collar being integral with each other and formed of resilient material and the body being extended downwardly below the collar to form a neck for passing through an opening formed in a head of a can, said body being oblong in cross section and having transversely arcuate end walls merging into flat side walls, said neck being triangular in cross section and of dimensions adapting it to fit snugly in the opening in the can, and the collar being triangular and having its under surface extending at a downward incline from the neck and formed with longitudinally curved convexed portions meeting at intersections of side edges of the collar and causing the under face of the collar to have close face to face contact with the surface of the can head about the opening and form a tight joint between the can head and the neck.

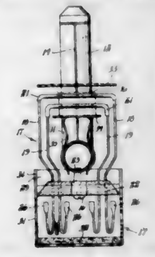
2,530,254
THERMOPILE CONSTRUCTION
Sidney K. Malek, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 28, 1945, Serial No. 590,836
10 Claims. (Cl. 136—4)

7. In combination, a burner having a horizontal portion and a final vertical portion, an opening in said vertical portion to provide for a main flame and a plurality of longitudinal oppositely disposed burner slots extending along said horizontal portion and communicating with said opening by means of runner slits, and a thermopile having a plurality of connected thermocouples extending vertically on opposite sides of



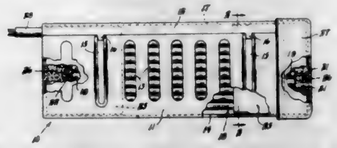
said horizontal portion with their hot junctions adjacent said slots so as to be exposed to flames therefrom.

2,530,255
THERMOELECTRIC GENERATOR
Sidney K. Malek, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 9, 1945, Serial No. 592,779
15 Claims. (Cl. 136—4)



8. In a thermopile adapted to be used in conjunction with an energizing flame, a plurality of electrically connected thermocouples, each of said thermocouples comprising an inverted substantially U-shaped member, the closed end of said U-shaped member comprising the hot junction and the open end the cold junction thereof, a flame deflecting member positioned beneath said hot junctions and spaced therefrom, and a heat retaining member positioned closely above said hot junctions.

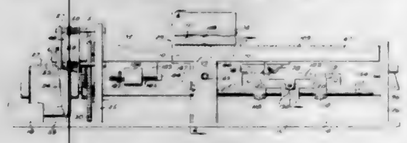
2,530,256
THERMOELECTRIC GENERATOR
Sidney K. Malek, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 9, 1945, Serial No. 598,500
8 Claims. (Cl. 136—4)



3. A thermoelectric generator assembly comprising in combination a protecting sheath, a thermopile positioned within said sheath with the hot junctions thereof adjacent one end of said sheath and the cold junctions near the other end, means for sealing said hot and cold

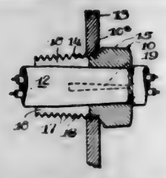
junctions from atmosphere and means for exposing the intermediate portion of said thermopile to atmosphere and for reducing the cross-sectional heat conducting area of the sheath.

2,530,257
APPARATUS FOR TESTING COATINGS
Jerome R. Marcus, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1944, Serial No. 567,409
5 Claims. (Cl. 73—150)



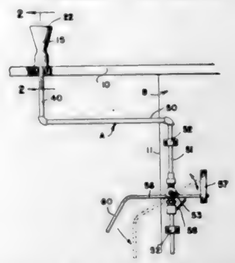
1. In an apparatus for testing a coating on a test panel, a supporting framework having a flat supporting surface, a rotatable threaded drive shaft longitudinally mounted on said framework in parallel relation to said flat supporting surface, a nut operatively engaging said threaded drive shaft and slidably engaging said framework for longitudinal movement thereon, a test panel supporting carriage mounted for movement on the supporting surface of said framework, an elongated transversely disposed recess in said carriage having wall portions slidably engageable with portions of said nut, a plurality of vertical slots formed in one of said wall portions of said carriage, a projection on said nut slidably engageable in said vertical slots, the arrangement of the nut and the carriage being such that the carriage may be vertically applied and connected to said nut in a plurality of positions transversely of the movement of the nut for longitudinal movement therewith, means on said carriage for clamping said panel thereto, a test probe engageable with the coating of a panel on said carriage, and means operable in timed relation to the rotation of said drive shaft for increasing the pressure of said probe on said coating.

2,530,258
SELF-LOCKING INSULATING BUSHING FOR ELECTRIC CONDUCTORS
Edward P. Marsan, Chicago, Ill., assignor to Frank J. Papes, Chicago, Ill.
Application July 23, 1945, Serial No. 606,606
1 Claim. (Cl. 174—153)



A bushing for anchoring a flexible conductor cord in a threaded aperture of an electric appliance to insulate the cord from the aperture wall, said bushing comprising a unitary tubular member of insulating material having an angular head, a shank, and a cylindrical bore in said head and shank of approximately uniform diameter throughout its length, said shank being exteriorly tapered and threaded throughout its tapered portion for wedging coaction with the wall of the aperture; one end region of said member having a pair of opposite longitudinal slots dividing the head and the proximate shank portion into opposing spaced semi-cylindrical sections; the other end of said member having a pair of opposite longitudinal slots dividing the adjacent portion of said shank into opposing spaced semi-cylindrical sections; the slots of one pair overlapping the slots of the other pair at the mid-region of said member; wedging coaction between said tapered shank and said aperture providing the sole anchorage means for said bushing, and also defining the sole means for distorting said bore in a radially inward direction thereby to constrict the cord and restrain the same against movement relative to said bushing.

2,530,259
METHOD FOR THE REPAIR AND CONDITIONING OF NYLON FABRIC
Harry McAdams, Philadelphia, Pa.
Application June 16, 1948, Serial No. 33,355
7 Claims. (Cl. 66—1)



2. In a process for repair of articles manufactured of nylon yarn the steps which consist in stretching the yarn at the zone of repair and while in such condition rearranging the yarn into proper position, and while so stretched subjecting the article at the zone of repair to a saturated live steam treatment for setting the yarn.

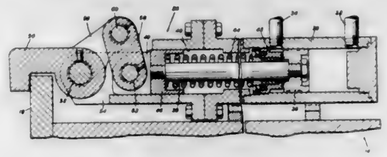
2,530,260
TREE PLANTER
Samuel L. Miller and Louis W. Amort, Salem, Oreg.
Application May 31, 1946, Serial No. 673,540
1 Claim. (Cl. 111—4)

A seedling planter comprising a pointed ground penetration portion of generally wedge shape, a plurality of metal walls comprising a seedling chamber integral with and next above said point portion, said seedling chamber normally open on one side to admit a seedling, a handle portion made rigid with the upper part of said seedling chamber, ejector means within said chamber for discharging a seedling after ground penetration is complete, comprising a pivoted lever, a pusher pivoted to said lever, a reciprocal lever operator, and cam and roller means for transmitting motion from the lever operator to the lever.

2,530,261
FIREPROOFING AND CREASEPROOFING OF CELLULOSE AND PROTEIN TEXTILES
Thomas H. Morton and Frank Ward, Braintree, England, assignors to Courtaulds Limited, London, England, a British company
No Drawing. Application November 27, 1948, Serial No. 62,408. In Great Britain August 22, 1947
8 Claims. (Cl. 8—116.2)

1. Cellulose and protein textile materials having within the individual fibers at least 3 per cent by weight of chemically combined non-volatile strong mineral acid and cyanamide produced by impregnating said materials with an aqueous solution consisting of 5 to 40 per cent of a non-volatile strong mineral acid and 8 to 25 per cent of cyanamide, drying at a temperature of below 80° centigrade and baking at a temperature of from 80° to 160° centigrade.

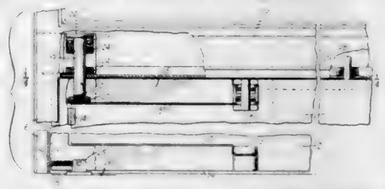
2,530,262
EXTRUSION APPARATUS
Oscar G. Nelson, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 15, 1947, Serial No. 791,867
6 Claims. (Cl. 18—12)



1. An extrusion apparatus, which comprises an extrusion cylinder, an extrusion head mounted for movement into and out of engagement with the extrusion cylinder, means for locking the extrusion head into engagement with the cylinder, fluid pressure means for actuating the locking means, and means supplementing the fluid pressure means for holding the locking means in locking engagement with the extrusion head in case of failure of the fluid pressure means.

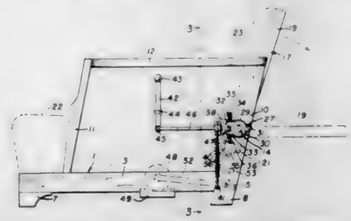
2,530,263
BALANCED DOOR
Edmund Peremi, Bayside, and Henry Weimann, Yonkers, N. Y., assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York
Application January 27, 1945, Serial No. 574,843
10 Claims. (Cl. 20—16)

1. In a door construction, a doorway including jambs, a header and a sill, a coordinator mounted within the doorway and including a vertical member and spaced horizontal arms rigid with said vertical member, pivotal means connected with said arms, header and sill to support the coordinator, a door pivotally mounted on the ends of the arms, the vertical member of said coordinator being disposed between said pivotal



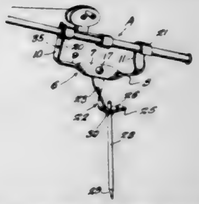
means and the adjacent face of the adjacent jamb and the contiguous faces of said jamb and said coordinator being arcuate with the center of said pivotal means as the center of said arc.

2,530,264
ADJUSTABLE BACK RECLINING CHAIR
Nick Perry, Chicago Heights, Ill.
Application March 17, 1947, Serial No. 735,067
2 Claims. (Cl. 155—160)



1. An adjustable back reclining chair comprising a seat frame, chair side arms supported thereby, a chair back pivotally supported between said chair side arms, braking means associated with the chair back pivoting means for supporting said back at the desired angular inclination with respect to the chair seat including a cylindrical member rotated when the back is pivoted and a spring biased brake band on said cylindrical member, and a manually operated wedge member mounted for insertion between the ends of said brake band to release said brake when desired.

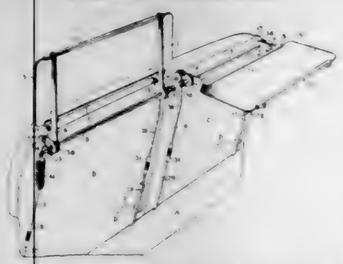
2,530,265
HOLDER FOR FISHING POLES AND RODS
Lee Clifton Phalen, La Due, Mo.
Application December 17, 1946, Serial No. 716,866
1 Claim. (Cl. 248—42)



In a holder for fishing poles and rods, a shore stake comprising a linearly straight rod, said rod being cylindrical in cross sectional form and pointed at its lower end and having shoulder-forming lugs at its upper end, said lugs being

situated downwardly from the upper extremity of the rod and permitting said latter portion to function as a bracket-adapting spindle, a stamped sheet metal L-shaped bracket embodying a horizontal limb apertured and removably and rotatably mounted on the spindle portion of said rod and in resting contact with said lugs and further including a vertical axially twisted limb portion, and a one-piece stamped metal U-shaped pole holding and cradling fixture having upstanding limbs on opposite ends, one limb having a keeper notch, the other limb having a downturned pole accommodating and retaining hook, the intermediate bight portion of said fixture being separably and hingedly connected to the upper end of the vertical limb of said L-shaped bracket.

2,530,266
SECONDARY WINDSHIELD FOR CONVERTIBLE AUTOMOBILES
Franks Quackenbush, Herkimer, N. Y.
Application July 29, 1948, Serial No. 41,374
2 Claims. (Cl. 296—85)

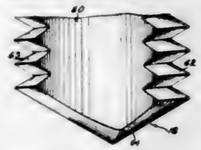


1. The combination of a seat structure including a back characterized by rigid top and bottom marginal elements exposed at the rear of the said back; a pair of spaced releasable clamps overlying the rear face of the seat back and engaging said marginal elements; a windshield hinged near its lower margin on a substantially horizontal axis to the clamps of said pair and adjusting means included in at least one of said clamps and operable to shift the clamp in a generally vertical direction to adjust the inclination of said hinge axis.

2,530,267
THREAD ANVIL
Carl Russell and Hans R. Kiel, Downey, Calif.
Application March 21, 1946, Serial No. 656,083
1 Claim. (Cl. 33—167)

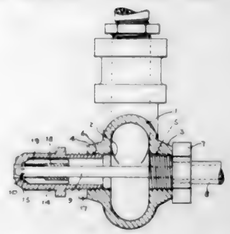
A device of the character described for use with a micrometer to measure the pitch line of the threads of various taps, comprising a triangular shaped body portion having three faces and two sides and one edge of the body portion at the faces thereof being nearly sharp, the second edge increasing in width over said first edge and the third edge increasing in width over the second edge and the edges are ground to prevent contact thereof with the root of the threads of the tap to be measured and the faces of said body portion are ground to a 60° angle with relation to the edges, a bushing mounted in said body portion extending through the body portion at right angles to the sides thereof, a shaft positioned in the bushing for rotatably mounting said body thereon and a flat handle having forked ends for mounting the ends of the shaft and the forked ends of the handle being parallel to the sides of the body portion.

2,530,268
TAPPING APPARATUS
Arthur J. Schaid, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1945, Serial No. 610,691
3 Claims. (Cl. 10—141)



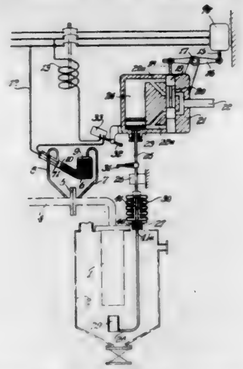
1. A screw thread-cutting tool comprising a tap having its entrance end defined by a surface having everywhere at radial sections an angle equal to the thread angle and receding axially away from said end and on a helix equal to the thread helix angle providing a generally coned surface with its apex eccentric to the tap axis and this surface being a continuation of the first thread adjacent thereto, and having the first thread-cutting surface extending to the major diameter of the tap thread to cut a full thread for each complete revolution following the first revolution.

2,530,269
ATOMIZER FOR OIL BURNERS
Eric Colin Smith, Toronto, Ontario, Canada
Application February 16, 1946, Serial No. 648,101
2 Claims. (Cl. 299—140)



1. An atomizer for oil burners comprising an air pressure chamber, a pressure air tube extending from said chamber and having a cylindrical interior terminating in a convergent end having a cylindrical discharge orifice therethrough, a pressure oil tube extending through said air pressure chamber and said pressure air tube said oil and air tubes being relatively adjustable longitudinally, means for maintaining said oil tube concentric within said air tube, said oil tube having a converging tip terminating within the discharge orifice of said air tube defining therewith a diverging annular passage around said oil tube tip having restricted communication with the interior of said air tube, said air and oil tubes in relative longitudinal adjustment providing for regulation of flow passage area to said divergent annular passage from said air tube while correspondingly regulating flow passage area throughout said diverging annular passage, the wall of the converging tip of said oil tube being formed with a plurality of inwardly converging passages whereby air under pressure regulated in accordance with regulation of flow passage area to said divergent annular passage is conveyed from the convergent end of said air tube into said oil tube to provide initial atomization of oil reaching said converging tube tip while such oil is held from expansion within said oil tube tip and other air under pressure is conveyed from the convergent end of said air tube as an annular stream directed through said diverging annular passage past the converging tip of said oil tube to provide further atomization of oil and air expelled therefrom to expand into the path of said annular air stream.

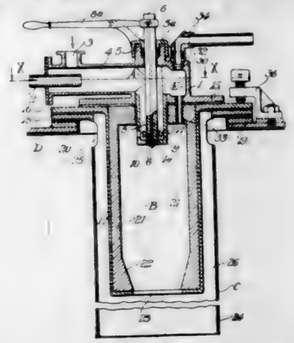
2,530,270
CLEANING DEVICE FOR SUBMERSIBLE BURNERS
Norman Swindin, London, England
Application February 4, 1946, Serial No. 645,392
In Great Britain September 18, 1944
11 Claims. (Cl. 158—120)



4. A pricking device for cleansing the flame orifice of a submerged flame burner mounted in a chamber containing liquid to be concentrated comprising, in combination, a pricking tool mounted in said chamber for immersion in liquid therein and for upward and downward movement toward and into an inoperative position below and away from the flame orifice of the burner, means for reciprocating the pricking tool upwardly toward and into the flame orifice, and controlling means for said reciprocating means for automatically producing operative reciprocation of the pricking tool and for subsequently returning the pricking tool to its lower inoperative starting position below and away from the flame orifice of the burner.

2,530,271
SUBMERGED FLAME BURNER
Norman Swindin, London, England
Application June 2, 1947, Serial No. 751,807
In Great Britain June 18, 1946
7 Claims. (Cl. 126—360)

1. A submerged flame burner comprising in combination, means forming a combustion chamber lined with refractory material and open at its lower end, a mixing chamber secured in the upper end of said combustion chamber and extending into the upper portion thereof, means for introducing a combustible gas and air mixture into said mixing chamber, an electrical ignition device extending through said mixing chamber into said combustion chamber, and a tubular shroud open at its lower and upper ends and spaced from and enclosing said combustion chamber and extending beyond the lower end



thereof, the lower end of said mixing chamber being formed with a plurality of openings therein of a size to maintain the velocity of the combustible mixture issuing therefrom at a rate greater than the counter-flow rate of ignition of said mixture.

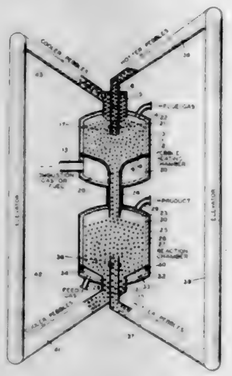
2,530,272
PROCESS FOR REMOVING SEED COAT FROM GRAIN
William B. Thrasher, San Antonio, Tex., assignor to Tex-O-Kan Flour Mills Company, Dallas, Tex., a corporation of Delaware
No Drawing. Application April 28, 1947, Serial No. 744,515
6 Claims. (Cl. 146—221.8)

1. A process for removing the seed coat from cereal grains comprising treating the grain with an oil, fat and wax extraction solvent, substantially completely removing said solvent together with the oily, fatty and waxy materials extracted from the seed coat, subjecting the grain to an aqueous solution containing alkaline reagent, said alkaline reagent being present in a maximum concentration of about 2%, until the seed coat is substantially only swelled and loosened, removing said alkaline solution from the grain, and separating the seed coat from the interior portion of the grain.

2,530,273
PREPARATION OF ARYL DIKETONES
John O. Van Hook, Philadelphia, and Willard J. Croxall, Bryn Athyn, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 11, 1948, Serial No. 64,907
7 Claims. (Cl. 260—590)

1. A process which comprises reacting the monosubstituted acetylene, R′C≡CH, where R′ is a member of the class consisting of the phenyl group and alkyl groups of not over four carbon atoms, with a benzoate ester, ArCOOR, wherein Ar is a hydrocarbon group and R is a lower alkyl group, in the presence of a quaternary ammonium alkoxide as catalyst, the alkoxide group having not over four carbon atoms and two to four of the N-substituents being methyl groups with the benzyl group satisfying any remaining valence to form a quaternary group.

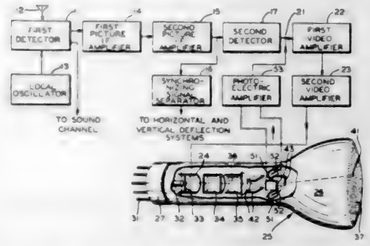
2,530,274
PEBBLE HEATER SYSTEM AND METHOD OF OPERATION
Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 9, 1946, Serial No. 715,076
15 Claims. (Cl. 23—284)



1. A pebble heater for heating a descending contiguous mass of pebbles comprising a vertically elongated cylindrical closed vessel; a gas pervious refractory partition defining in cooperation with the walls and bottom closure member of said vessel a combustion chamber in the lower portion thereof; a pebble passageway communicating between an axially disposed opening in said partition and the pebble outlet hereinafter named; means for introducing a combustible mixture to said combustion chamber; a gas outlet in the upper portion of said vessel; a pebble outlet substantially axially positioned in the bottom of said vessel; means for introducing two separate streams of pebbles (one a relatively hotter and the other a relatively cooler pebble stream) into the upper portion of said vessel, said means comprising a pair of concentric conduits of sufficient diameter differential to form an annulus between the inner and outer conduits of said pair of sufficient cross section to permit relatively free flow of pebbles therethrough, said inner conduit adjustably extending into said vessel a substantial distance for delivery of said hotter pebble stream and said outer conduit extending thereinto a lesser distance for delivery of said cooler pebble stream.

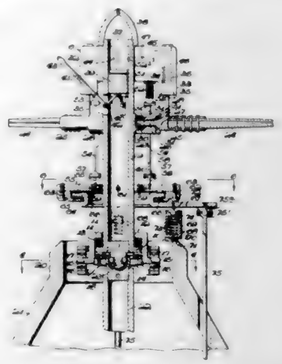
2,530,275
CATHODE-RAY TUBE IMAGE CONTROL
Joseph Weingarten, Boston, Mass.
Application March 16, 1946, Serial No. 654,942
10 Claims. (Cl. 178—7.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

9. A television receiver comprising in combination, means for receiving television signals from a remote television transmitter, detector means responsive to said signals for providing a first video signal for reproduction by said receiver, a picture reproducing cathode ray tube having means for forming an electron beam, a fluorescent screen responsive to said electron beam for providing a luminous spot and means for modulating the intensity of said electron beam, means for sweeping said electron beam over said screen, a first amplifier system for said first video signal, means for applying the output of said first amplifier system to said modulating means for forming a picture on said cathode ray tube fluorescent screen, photoelectric means adapted to receive light from said fluorescent screen and thereby generate a second video signal varying substantially as said first video signal as a function of time, a second amplifier system energized by said



second video signal, and inverse feedback means for applying the output of said second amplifier system to the input of said first amplifier system in opposite electrical phase, whereby the output of said first amplifier system as applied to said modulating means is continuously adjusted in magnitude opposite to the variation of light intensity of said luminous spot.

2,530,276
ROTOR FOR HELICOPTERS
Richard L. Weir, Warren, Ohio, assignor of thirty per cent to Vincent Mulvaney, Cheyenne, Wyo.
Application February 6, 1946, Serial No. 645,720
11 Claims. (Cl. 170—160.21)

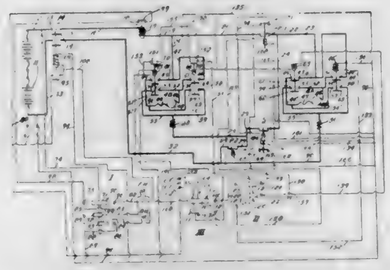


9. A helicopter rotor, comprising an upstanding shaft provided with a cylinder carried thereby, means engaging the upstanding shaft to support it, a plunger within the cylinder, centrifugally operated means mounted upon the upstanding shaft for rotation therewith and serving to move the plunger, a plurality of variable pitch blades mounted upon the upstanding shaft to rotate therewith, fluid pressure operated devices mounted upon the upstanding shaft to rotate therewith, each device including a chamber and a movable part connected with one blade, each chamber having a separate passage leading to the cylinder of the upstanding shaft, and means connected with each device to prevent the passage of fluid pressure through the passage.

2,530,277
CLOTHESPIN
Arthur E. Wiegert, Lenawee County, Mich.
Application June 18, 1949, Serial No. 100,035
3 Claims. (Cl. 24—137)

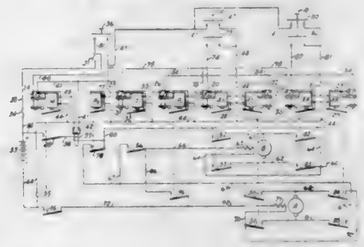
1. In a clothes pin having two members lying side by side one upon the other and cooperating at their lower ends to form a line-receiving recess therebetween, a one-piece spring yieldingly retaining the inner sides of the members in abutting relation and comprising a substantially straight cross-piece at the outer side of one member, and legs projecting angularly from opposite ends of the cross-piece at opposite side edges of the members and in divergent relation lengthwise of the members and extending at their outer end portions in opposite directions across the outer side of the other member in holding engagement therewith, one of said end portions being longitudinally slidable on the engaged member and the other being anchored against any such lengthwise movement.

2,530,278
PLURAL SERIES MOTOR STARTING SYSTEM
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Original application August 16, 1946, Serial No. 690,856. Divided and this application December 8, 1947, Serial No. 790,425
11 Claims. (Cl. 318—58)



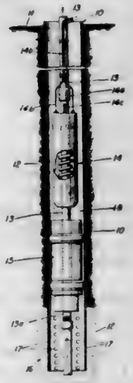
1. In a dual motor circuit comprising relay means having contacts in separate circuits connected to each motor, a series relay having a contact to connect said motors in series when energized, a parallel relay for connecting one side of said motors together, a connection to energize the series relay through a normally closed contact of said parallel relay, a normally open time delay closing contact energized with the operation of said relay means to close a circuit and energize said parallel relay which opens the circuit of said series relay, a normally closed contact actuated by said series relay to connect a circuit to a second parallel relay which connects together the other side of said motors to complete the circuit placing them in parallel.

2,530,279
DUAL ELECTRIC MOTOR SERIES PARALLEL STARTING CIRCUIT
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 8, 1946, Serial No. 701,955
8 Claims. (Cl. 318—58)



1. In a dual motor running and reversing circuit, the combination of controlling means having contacts in separate circuits connected to each motor, the contacts being in each of two opposite legs of respective four-legged bridge reversing motor circuits, a contactor energized with the operation of said controlling means to close the circuit of a second controlling means which connects said motors in series, a normally open time delay closing contactor energized with the operation of the first controlling means to close a circuit and energize a third controlling means which connects together one side of said motors, a normally closed contactor actuated with the third controlling means to open the circuit of the second controlling means, a normally closed contactor actuated with the operation of the second controlling means to connect a circuit from the normally open time delay closing contactor to a fourth controlling means which connects together the other side of said motors to complete the circuit placing them in parallel.

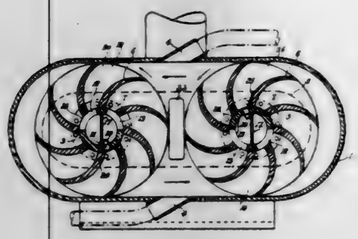
2,530,280
OIL COLUMN HEATING MEANS AND METHOD
Charles S. Ackley, New York, N. Y., assignor to Thermactor Corporation, New York, N. Y., a corporation of Delaware
Application February 7, 1948, Serial No. 7,013
8 Claims. (Cl. 166—23)



4. The method of restoring an oil well clogged by paraffin, heavy bitumens and the like, which

comprises providing suitable heating means at a zone of the flow tube proximate the bottom thereof; expanding a packing member between the heating means and the bottom of the flow tube to block the annular passage between the flow tube and the well casing; charging from the earth's surface a liquid serving as a static thermal medium to substantially fill the annular clearance between the flow tube and the well casing upwardly of the packing member to a point above the heating means; and energizing the heating means to thereby elevate the temperature of the annular column of thermal medium.

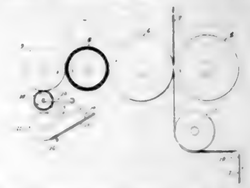
2,530,281
ROTARY INTERNAL-COMBUSTION ENGINE
Charles Rutland Barsby, London, England
Application April 1, 1949, Serial No. 84,893
In Great Britain March 26, 1947
14 Claims. (Cl. 60—12)



1. A four-cycle rotary combustion engine comprising in combination: a closed casing of substantially elliptical internal contour; at least one hollow divided shaft mounted transversely within said casing; sleeves rotatably mounted on said shaft at either end thereof; a plurality of curved equispaced and substantially radially disposed blades secured to said sleeves and defining combustion chambers; shroud plates secured with said sleeves and said blades, said shroud plates and said blades constituting a multi-bladed rotary prime mover impeller; a liquid inlet in said casing; a liquid outlet in said casing; means connected with said shaft for introducing a combustible mixture through one ported division of said shaft to said combustion chambers, the other division of said shaft constituting an exhaust fluid outlet from said casing and being peripherally ported at the curved surface of said shaft; means disposed in said shaft for igniting said combustible mixture in said impeller; and a power take-off means coupled to at least one of said sleeves.

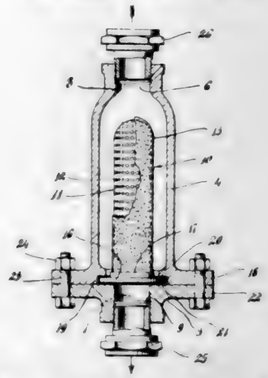
2,530,282
METHOD OF AND APPARATUS FOR PRINTING
George R. Brodie, Lower Merion Township, Montgomery County, and William M. Hawkes, Jr., Philadelphia, Pa., assignors to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York
Application October 26, 1948, Serial No. 56,656
5 Claims. (Cl. 101—350)

3. In a printing press, a plate cylinder, an impression cylinder and an inking train comprising a fountain, a rotating metal roller adapted to deliver ink from the fountain, a knurled roller, an intermediate ductor roller having a rubber surface engageable with said ink-delivering metal roller and said knurled roller, and a roller having a hard rubber surface, said hard surfaced roller



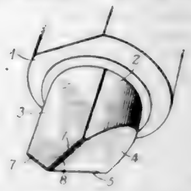
engaging the knurled roller and the plate cylinder.

2,530,283
FILTER
Bertram G. Brown, Yonkers, N. Y.
Application October 5, 1945, Serial No. 620,509
12 Claims. (Cl. 210—164)



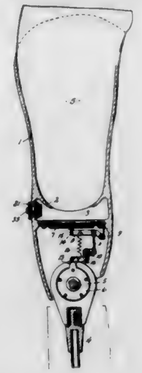
1. A filter comprising a perforate flanged cylinder, a pair of casing members adapted to clamp between them the flange of said cylinder and formed with inlet and outlet portions respectively and with means for connecting the same in a fluid line, said cylinder being located inside the casing between said inlet and outlet portions, a stretched stretchable knitted fabric bag on said cylinder, a ring for clamping said bag over said cylinder, and releasable means for clamping the flange of said cylinder between said casing members.

2,530,284
RECORDING STYLUS
Isabel L. Capps, Westbury, and Emory G. Cook, Floral Park, N. Y., assignors to Frank L. Capps & Co. Inc., New York, N. Y., a corporation of New York
Application November 25, 1947, Serial No. 788,012
2 Claims. (Cl. 274—38)



1. A sound recording stylus comprising an elongated body provided with a cutting face and rearwardly extending clearance surfaces, the cutting face terminating in a sharp cutting edge having a groove-forming configuration, and a group of burnishing facets adjacent said cutting edge, the leading facet of said group intersecting the cutting face at said cutting edge and another member of said group being adjacent the leading facet and intermediate the leading facet and the clearance surfaces.

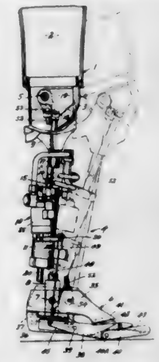
2,530,285
ARTIFICIAL LEG (DIAPHRAGM KNEE LOCK CONTROL)
John G. Catranis, Syracuse, N. Y.
Application December 11, 1947, Serial No. 791,129
6 Claims. (Cl. 3—3)



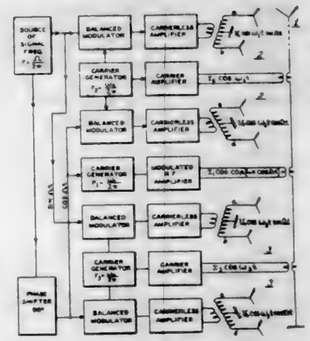
1. An artificial leg for above-the-knee amputees including a socket for air tightly fitting the stump of the leg, a lower leg hinged by a knee joint to the socket, a knee lock for braking the hinging movement of the socket and lower leg, the knee lock including an actuating member, a pressure operated movable member closing the lower end of the socket forming a closed air chamber below the end of the stump, and operable by the compressing and releasing of the pressure of the air in the socket by the relative axial action of the stump and the socket when the weight is applied to and released from the stump, and motion transmitting connections between the pressure operated member and the actuating member.

2,530,286
FOOT CONTROL FOR ARTIFICIAL LEGS
John G. Catranis, Syracuse, N. Y.
Application January 28, 1948, Serial No. 4,856
6 Claims. (Cl. 3—2)

1. A foot control for the knee lock of an artificial leg which includes a stump receiving socket, a lower leg structure hinged by a knee joint to the lower end of the socket, a foot hinged to the lower leg structure by an ankle joint, and a knee lock mechanism carried by the lower leg structure and operable to lock the knee joint against hinging movement; the knee lock mechanism including a control member and an operating member therefor, the control member being in position to lock the knee joint when the leg is in straight or extended position, the foot including a rear portion and a metatarsal section hinged on a transverse axis to the rear portion of the foot, the ankle joint being between the lower leg structure and the rear portion of the foot, and motion transmitting means between the metatarsal section and the operating member to transmit the relative hinging movement of the metatarsal section and the rear portion of the foot to which it is hinged, to the operating member.



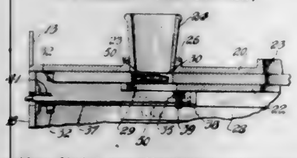
2,530,287
AERIAL NAVIGATION
Henri Chireix, Paris, France, assignor to Societe Francaise Radio Electrique, a corporation of France
Application April 17, 1947, Serial No. 742,086
In France May 5, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 5, 1964
8 Claims. (Cl. 343—16)



7. In a system of radio navigation for aircraft, a plurality of radio beacons each located at a fixed geographic location, said radio beacons comprising means for transmitting on the same carrier frequency from each of said radio beacons in succession a radiation pattern comprising a component variable azimuthally from the transmitting radio beacon and a further component in variable azimuthally with respect to the transmitting radio beacon, means aboard said aircraft for deriving signals from said radiation patterns, said signals as received having magnitudes representative of the azimuthal bearings of said aircraft with respect to said radio beacons, means aboard said aircraft for selecting signals deriving from one of said radio beacons to the exclusion of the remainder of said radio beacons, and means responsive to said selected signals

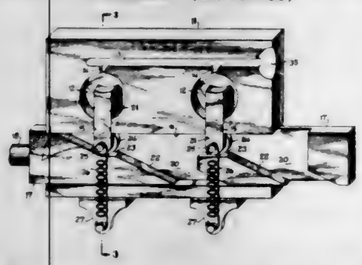
for creating an indication of the bearing of said aircraft with respect to said one of said radio beacons.

2,530,288
CANDLE RESIDUE DISPENSER
Florence Ciano, St. Albans, N. Y.
Application March 17, 1949, Serial No. 81,899
2 Claims. (Cl. 67—25)



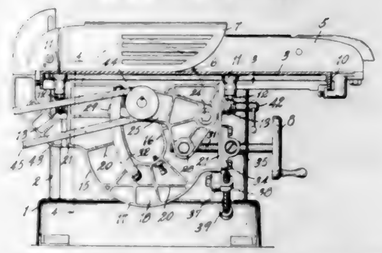
1. A votive-light candlestand comprising a support, a normally top plate and a normally lower plate arranged flatwise adjacent each other and carried by said support, said normally top plate having a plurality of openings therethrough for accommodating open-ended candle holders, said normally lower plate having a plurality of openings therethrough spaced from each other a distance greater than the diameter of the openings in said upper plate, said lower plate being normally disposed so that the said openings in said top plate are located between said openings in said lower plate to close said openings in said upper plate, said lower plate being slidable relative to said top plate to dispose the openings in said lower plate in approximate alignment with the openings in said top plate for the passage of candle residue and wick supporter through said approximately aligned openings.

2,530,289
METHOD FOR MOLDING OBJECTS OF SPONGE RUBBER AND THE LIKE
Wallace L. Cook, Chicago, Ill., assignor to The Whitney Blake Company, Hamden, Conn., a corporation of Connecticut
Application August 25, 1948, Serial No. 46,158
3 Claims. (Cl. 18—53)



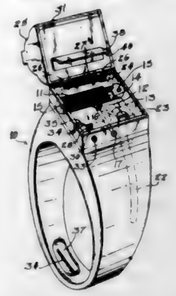
1. The method for molding porous or cellular objects of sponge rubber or the like, including the steps of: preparing a mixture of gas-expansible molding material having gas-producing material intermixed therewith; reducing the volumetric capacity of a molding-cavity; thereafter injecting the said gas-expansible molding material together with its said gas-producing material into the said molding-cavity while the latter has its volumetric capacity reduced; subsequently to the said injection, expanding the volumetric capacity of the said molding-cavity while maintaining the latter closed; and causing the injected molding material to be expanded by its intermixed gas-producing material into a porous or cellular condition in the now-expanded molding-cavity.

2,530,290
TABLE SAW WITH TILTABLE AND VERTICALLY ADJUSTABLE ARBOR
James G. Collins, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich.
Application December 12, 1946, Serial No. 715,760
1 Claim. (Cl. 143—36)



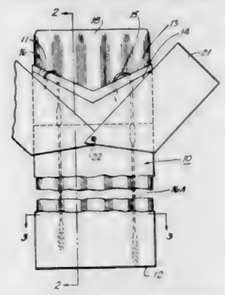
A table saw comprising a rigid table member, support plates secured to the under side of said table member, a yoke member having a base and arm of laterally facing channel shaped cross-section and positioned between said support plates, arcuate tongue and groove sliding joints formed between the ends of said yoke member and said support plates, stiffening ribs formed on said yoke member between the flanges thereof, a saw arm pivotally supported on said yoke member and having an extension across the center of said yoke member, a retaining bar secured to said yoke member and yieldingly urged against said extension, a saw arbor mounted in said saw arm, screw means connected between said saw arm and said yoke member for rotating said saw arm, a thin walled rectangular casing for supporting said saw table and enclosing said yoke member, said table acting to laterally reinforce said casing, screw means extending between said yoke member and said casing for tilting said yoke member, and locking means carried on said yoke member independently of said casing for releasably securing said yoke to one of said plates.

2,530,291
FINGER RING LIGHTER
Edward S. Conway, New York, and Vito Amendolara, Brooklyn, N. Y., assignors, by direct and mesne assignments, of one-half to said Conway and one-half to Sidney B. Good, Brooklyn, N. Y.
Application September 17, 1949, Serial No. 116,236
3 Claims. (Cl. 67—4.1)



3. In a ring lighter having a finger band formed with an enlarged hollowed out portion having an open top and within which a lighter is mounted, a setting portion hingedly connected to the finger band for closing the open top of the hollowed out portion, resilient means urging said setting portion into an open position, latch means including a latch spring mounted within the hollowed out portion and engaging said setting portion holding said setting portion in its closed position against the action of said resilient means, and a latch trip for moving said latch to free said setting portion to be opened, said latch trip comprising a trip band connected at one end to said latch spring and having its other end extending through holes and a groove in one side of the finger band, across an aperture on the inside of the finger band to the other side of the finger band where the free end of said trip band is secured to the finger band, said trip band with the said other side of the finger band forming a smaller finger loop within the finger band and through which a finger is inserted so that said trip band will act when pulled to move said latch spring to face said setting portion.

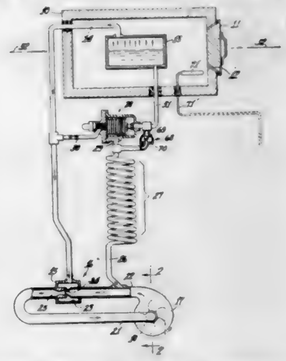
2,530,292
HOOK TO GUT HOLDER
Arthur John Howard Crook, Havelock, Ontario, Canada, assignor to Canada Needle and Fishing Tackle Company Limited, Toronto, Ontario, Canada
Application July 2, 1945, Serial No. 602,859
In Canada September 21, 1944
1 Claim. (Cl. 43—57.5)



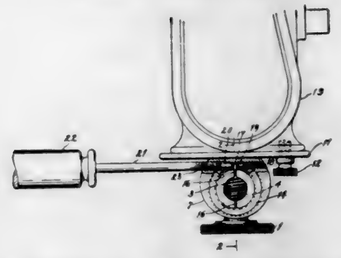
A holder for hook to guts comprising an elongated shallow casing having an upper open end and including front and rear parallel walls, a partition in said casing defining with said walls spaced parallel compartments adapted to hold individual hook to guts lengthwise therein, at least one auxiliary flat wall secured along a transverse lower portion to the outside of one of said walls leaving its remaining upper portion free resiliently to be flexed away from said one of said walls to receive and clamp therebetween the points of the hooks emerging out of said casing over the open end thereof, the upper edge of said auxiliary wall being spaced downwardly from the upper edge of said one of said walls to expose portions of the hooks and in non-parallel relationship to said upper edge to provide for hooks of different sizes, and a closure for the upper end of said casing.

2,530,293
EJECTOR PUMP REFRIGERATING APPARATUS
Warren H. De Lancey, Springfield, Mass., assignor to Atlantic Development Company, Springfield, Mass., a corporation of Massachusetts
Application July 11, 1947, Serial No. 760,201
4 Claims. (Cl. 62—4)

2. In a refrigerating apparatus of the type described, an evaporator, a condenser, a centrifugal pump for forcing refrigerant through said condenser, an ejector connected in series with said centrifugal pump for drawing vapor from said evaporator, a normally closed connection between said condenser and said evaporator, and means responsive to a predetermined pressure differential existing between the fluids contained within said evaporator and said condenser for increasing the volumetric capacity of the high pressure side of said apparatus before opening said connection between said condenser and said evaporator.



2,530,294
TRIPOD HEAD FOR CAMERAS AND THE LIKE
Edward P. Evers, Overland, Mo.
Application March 14, 1949, Serial No. 81,367
8 Claims. (Cl. 248—183)

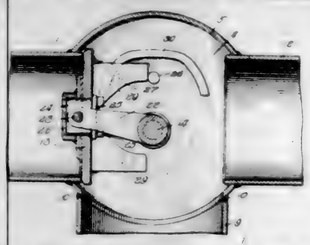


1. A tripod head of the character described, comprising, an upright pivot, a trunnion member solid at one end and collapsible at its other end mounted to turn on said pivot, a solid head mounted to rock on said trunnion member and having camera-supporting means, and clamping means on said head engaging the collapsible portion of said trunnion member operable to clamp said head against movement on said trunnion member and said trunnion member against movement on said pivot.

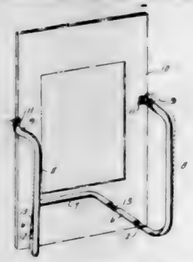
2,530,295
SWINGING SLIDE VALVE
Fred C. Fantz, Logan Township, Auglaize County, Ohio, assignor to Henry Pratt Company, a corporation of Illinois
Application August 22, 1945, Serial No. 611,973
9 Claims. (Cl. 251—13)

1. A swinging slide-valve comprising: a valve chamber having end walls and provided with a plurality of conduits opening into said chamber,

two of said conduits having flat valve seats within the chamber; a shaft journalled in said end walls of the chamber and provided with a crank arm in said chamber; a valve head pivotally mounted on the end of said crank arm and having a face adapted to engage and close either of said valve seats; and interengaging guide mechanism on an end wall and said valve head to guide said valve head face from one seat to the other.



2,530,296
CARD HOLDER
Donald G. Gahris, Union City, Ohio
Application May 10, 1946, Serial No. 668,723
2 Claims. (Cl. 248—36)

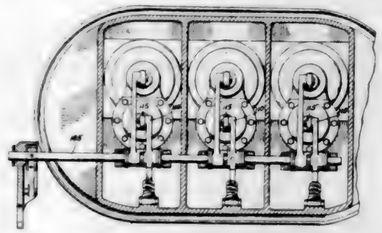


1. A card holder comprising a base including fore and aft members and an elongate transverse member connecting the rear ends of said fore and aft members and spacing the same a substantially distance one from the other, arms extending upwardly from the forward ends of the respective fore and aft members, and other members extending rearwardly from the upper ends of the respective upwardly extending arms and having at their rear ends card engaging parts, said rearwardly extending members being laterally yieldable and adapted to grip a card between them.

2,530,297
TOOL HANDLE
Clarence S. Gates, West Hartford, Conn., assignor to Allen Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application November 12, 1947, Serial No. 785,457
1 Claim. (Cl. 279—83)

A plastic handle for a rotatable hand tool having an integral end piece moulded thereto, said handle and end piece being secured in fixed position to each other and having co-axial openings extending therethrough to form a central longitudinal opening through the handle, said opening within said end piece having a non-circular cross-section for a portion of its length, the remainder of its length adjacent its outer end being circular in cross-section and slightly larger in diameter than the non-circular section, and a transverse set screw within the circular cross-sectional portion of said end piece, whereby a blade closely but slidably fitting said non-circular cross-section may be secured in any axially adjusted position within said handle.

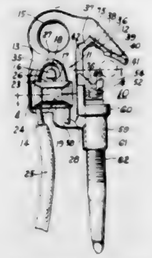
2,530,298
MANUAL CONTROLLED DEVICE FOR AUTOMATIC CIRCUIT RECLOSER MECHANISMS
James K. Harper, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application February 11, 1948, Serial No. 7,604
4 Claims. (Cl. 200—89)



1. In a manual controlling mechanism for automatic circuit makers and breakers of the type having a time-delayed closing member biased by gravity to closed position and having an integrating device for lifting said closing member after a predetermined number of opening operations, the combination of a controlling shaft, rotatably mounted upon a container cover and having an end projecting from said cover, a metal hub fixedly secured to said shaft end and carrying a radially extending leaf spring, a handle member rotatably mounted upon said shaft end, said handle having opposing abutments for engaging the opposite sides of said spring, a lockout arm fixedly secured to said shaft and having its end connected to said integrating device by a lost motion pin and slot, a switch controlling plunger arm rotatably mounted on said shaft and having its end connected to said closing member, opposed radial shoulders carried by the lockout arm and by the plunger arm and spaced angularly from each other to permit the arm closing member to move into open or closed position without moving the lockout arm and to permit said handle to move said closing member to open or closed position by moving through an angular range greater than said angular spacing, and lockout means acting on said lockout arm to hold the lockout arm in open circuit position.

2,530,299
ELECTRICAL TAP CLAMP
Flavius Josephus Hendley, deceased, late of Chattanooga, Tenn., by Cornelia Smartt Hendley, executrix, Columbia, Tenn.
Application July 5, 1947, Serial No. 759,116
8 Claims. (Cl. 173—273)

5. In an electrical connector of the tap clamp type, the combination of a metal body member provided with an integral forwardly extending fixed jaw, said body member having a threaded bore oppositely disposed to said jaw, a threaded member in said bore and provided with a head adapted to be actuated by means of a clamp stick or the like, a spring rotatably mounted on the end of said threaded member, and a movable jaw carried by said spring in opposition to the fixed jaw, the threaded member and spring urging the movable jaw into engagement with a conductor between said jaws, the said threaded member being initially spaced from said movable jaw by said spring and said threaded member



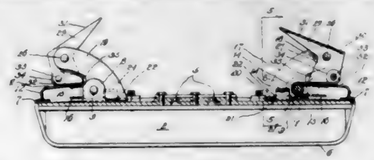
flexing the spring until the threaded member engages the movable jaw to drive it into fixed clamping relation with said conductor, the spring remaining flexed and ready to take up any looseness between said conductor and said movable jaw, the said spring comprising an elongated flat spring having a central aperture for receiving a reduced riveted portion of said threaded member, the ends of said elongated spring engaging said movable jaw at points equally spaced from the axis of said threaded member.

2,530,300
SEPARATION OF NORMAL PARAFFINS
Alfred E. Hirschler, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application June 11, 1948, Serial No. 32,532
7 Claims. (Cl. 260—676)

1. Method of separating a higher molecular weight normal paraffin hydrocarbon from a lower molecular weight normal paraffin hydrocarbon which comprises introducing a non-aromatic liquid mixture composed essentially of such hydrocarbons into a body of activated carbon, thereby selectively adsorbing the higher molecular weight paraffin, and separating from the adsorbent a filtrate fraction which contains only a portion of the total hydrocarbons introduced, thereby obtaining a product containing the lower molecular weight paraffin in more nearly pure state.

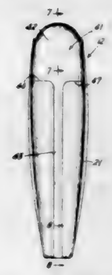
2,530,301
CLAMP DEVICE FOR RUBBING MACHINES
John B. Hoy, Detroit, Mich., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois
Application September 29, 1945, Serial No. 619,360
9 Claims. (Cl. 51—189)

1. A clamp device for clamping rubbing sheets on the shoe of a rubbing machine, comprising a supporting plate, a clip swingably mounted on said plate, a cam bracket pivotally mounted on said plate and having an arm overhanging the plate, a cam pivoted on the forward end portion of the bracket, an arm extending from said cam for manually rotating the cam to press the front edge of the clip closed, a spring for normally urging the front edge of the clip away from the plate, and spring means for normally swinging the forward end of the cam bracket toward the clip and resisting movement of the cam bracket away



from the clip when the clip front edge is closed and the cam is rotated in tightening direction, said clip having on its outer end a flange adapted to clamp the end of said sheets against said supporting plate.

2,530,302
CASE FOR MOTOR UNITS
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application October 29, 1947, Serial No. 782,762
5 Claims. (Cl. 172—36)

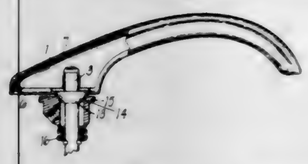


1. In combination, a case for a motor unit comprising two separable parts each having spaced edge portions, the edge portions of one part being shaped to substantially match the edge portions of the other part when the parts are positioned to form a unitary case, each of said parts being formed with a recess of the same general configuration as a portion of said motor unit so that when the parts are assembled a chamber is formed therein for the reception of the motor unit, means for securing each of said parts to said motor unit at one end, means disposed in said chamber for securing the opposite end of one of said parts to said motor unit, means accessible from the exterior of said case for securing the opposite end of the other part to the motor unit, shields overlying said matching edge portions to prevent the entrance of foreign matter to said motor chamber, and means disposed at opposite ends of said case for securing said shields in position.

2,530,303
DOOR HANDLE
Isaac S. Keeler and Gerald V. Jakeway, Grand Rapids, Mich., assignors to Keeler Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application December 8, 1945, Serial No. 633,644
9 Claims. (Cl. 292—347)

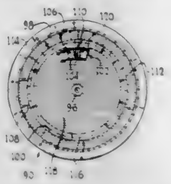
1. In a hardware article, the combination of a core member constituting a supporting bar having inner and outer sides and lateral sides inter-

mediate said inner and outer sides and of inwardly facing channel section and having walls of uniform thickness, a filler member conformed to fittingly embrace the opposite lateral sides and ends of the core member adjacent its inner edges and having inturned flanges engaging the inner edges of the core member and preventing lateral outward movement of the filler member on the core member, and a hollow generally U-shaped casing member of non-metallic thermoplastic



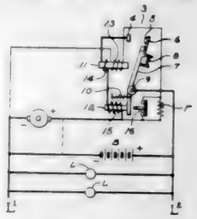
moldable material embracingly disposed upon said core and filler members in supported engagement therewith, the edges of said casing member being extended around the inner edges of said filler member adjacent the inner edges of the core member and disposed interiorly between the edges of the inturned flanges thereof with the interiorly disposed edge portions of the casing member in side by side abutting relation closing the channel of the core member.

2,530,304
ROTARY COMPUTER
John Kreitner, New York, N. Y., assignor to Sixtal Development Company, Beacon, N. Y., a copartnership composed of John Kreitner, Robert M. Kristal, Franz Winkler, Teresa Kreitner, and Rudolph Fleischmann
Application August 21, 1945, Serial No. 611,727
16 Claims. (Cl. 235—84)



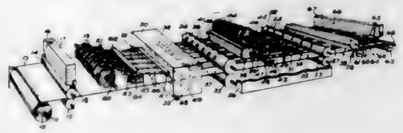
15. A rotary Mannheim computer comprising a circular bottom disc, a transparent circular top disc of the same diameter, means to rotatably join said discs, a pair of circular scales one on the top and the other on the bottom disc, said scales being arranged to be read against one another and being graduated logarithmically in the same direction, another pair of circular scales on the top and bottom discs disposed radially inwardly of said first pair of scales, said second pair of scales being arranged to be read against one another and being graduated logarithmically in opposite directions, circular sine and tangent scales on the bottom disc graduated logarithmically in the same direction as said first pair of scales, a radial mark in the top disc arranged to be set against said sine and tangent scales, all of said scales being disposed coaxially of the means for rotatably joining said discs, and an opaque background on said top disc having portions omitted which leave visible through said top disc all of both circular scales on said bottom disc and portions of said sine and tangent scales to both sides of the radial mark.

2,530,305
AUTOMATIC CONTROL SWITCH
Clarence W. Kuhn, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 15, 1948, Serial No. 27,259
4 Claims. (Cl. 320—33)



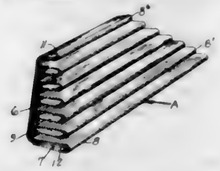
1. In a power supply system, the combination with a battery and a generator for charging the same, of a normally open control switch for establishing a charging circuit between said generator and said battery, a shunt operating winding for said switch connected across the terminals of said generator to close said switch when the voltage of said generator equals or exceeds the voltage of said battery, and a pair of series windings associated with said switch for inclusion in said charging circuit upon closure of said switch, one of said series windings tending when energized to effect opening of said switch, and the other of said series windings acting cumulatively with said shunt winding to maintain said switch in closed position as long as the voltage of said generator exceeds the voltage of said battery, and acting in opposition thereto when the voltage of said generator drops below the voltage of said battery.

2,530,306
PROCESS AND APPARATUS FOR FORMING LIQUID-CARRYING CONTAINERS
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application October 6, 1945, Serial No. 620,743
15 Claims. (Cl. 93—3)



1. Apparatus for providing a base material with a container releasably carrying a liquid comprising, in combination, means for superposing on a sheet of said base material, adjacent an edge of an area thereof, a strip of container-forming material impervious to said liquid, means for securing said strip to said base, means for deforming said base and said strip in the area thereof covered by said strip to provide a recess in said base and said strip, means for introducing a predetermined quantity of said liquid into said recess, means for adhering sheet material impervious to said liquid to the upper surface of said strip to form a closure for said recess, and means for severing said base, with at least one complete container thereon, from a supply of said base and said strip along a line parallel to one edge of said first-named area and normal to that edge of said first-named area adjacent which said container is positioned.

2,530,307
WRENCH HOLDER
Kant F. Leach, Englewood, Colo.
Application April 3, 1948, Serial No. 18,763
1 Claim. (Cl. 211—120)



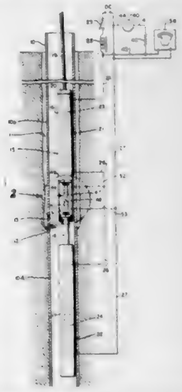
A wrench holder comprising, a corrugated clip whose corrugations serve as pockets to receive and hold the various wrenches of a graduated set, the ends of the clips being both bent rearwardly in substantially parallel relation to the outer walls of the end pockets, and a reenforcing backing plate having its ends projecting substantially perpendicularly therefrom, the said ends extending into the spaces between ends of the clip and the outer surfaces of the adjacent pocket walls, the ends of the clip and the ends of the reenforcing plate being interconnected by spot welding or the like.

2,530,308
APPARATUS FOR DETERMINING MOVABILITY OF MEMBERS IN WELLS
Philip W. Martin, Huntington Park, Calif.
Application September 28, 1945, Serial No. 619,242
17 Claims. (Cl. 73—151)

1. In a device of the character described, having parts adapted to be lowered into a well, the combination of: an anchor member; means for lowering the anchor member into the well; means operable to connect the anchor member to a part within the well; and means connected to said anchor member engaging and responding to relative movement of another part in the well to produce at the top of the well an indication of said relative movement.

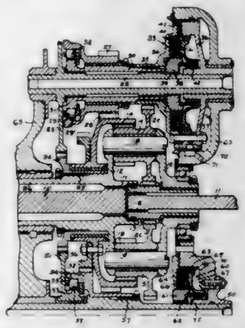
2,530,309
DEVICE FOR DETERMINING RELATIVE MOVEMENTS OF PARTS IN WELLS
Philip W. Martin, Huntington Park, Calif.
Application January 15, 1946, Serial No. 641,279
11 Claims. (Cl. 73—151)

8. In a device for determining the point at which a tube is stuck in a well: a pair of members connected together in movable relation and adapted to be lowered into the well; means for supporting said members in the well adjacent a selected portion of said tube; means operatively connected to said members and operating in consequence of relative movement of spaced parts of said selected portion of said tube to produce relative movement of said members; conductors forming an electric circuit having a part thereof supported in close relation to one of said members; means for producing a fluctuating electrical flow in said circuit; current control means



having relatively movable portions and means connecting said portions respectively to said members so that relative movement of said members will cause relative movement of said portions of said current control means and responding to relative movement of said portions to change at least one of the values of the electrical flow in said circuit; and means having an indicator at the top of the well coupled to said circuit and adapted to respond to change in at least one of the values of said electrical flow in said circuit and indicate relative movement of said members.

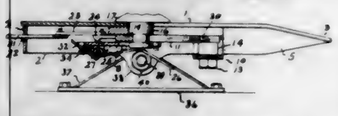
2,530,310
TRANSMISSION MECHANISM
Forest R. McFarland, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application February 26, 1945, Serial No. 579,726
13 Claims. (Cl. 74—681)



1. A transmission mechanism comprising a drive shaft, a driven shaft, planetary gearing between said shafts including an element nor-

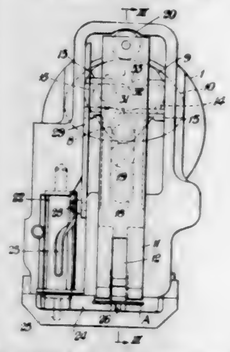
mally rotating in the same direction as the drive shaft, two gear trains for differentially retarding rotation of said element, a positive clutch and an overrunning clutch in series in one of the speed gear trains, and means in the other speed gear train effective to brake the planetary gearing element.

2,530,311
LOWER FIFTH WHEEL
William C. Nabors, Mansfield, La.
Application February 7, 1949, Serial No. 75,053
5 Claims. (Cl. 280—33.05)



1. A lower fifth wheel comprising, a supporting structure having a forwardly directed slot; jaws pivoted at their forward ends to the structure on opposite sides of the slot and whose rear ends are shaped to conform to, and to partially surround, a king pin, when the jaws are in active position; a jaw yoke plate shaped to embrace said rear ends of the jaws, on opposite sides, and to hold them in said active position; yieldable means normally holding said jaw yoke plate in said jaw-embracing position; means for moving the jaw yoke plate to inactive position to release the jaws; a trip lever pivotally mounted on the structure whose forward end is positioned to be engaged, and depressed by, the king pin; a dog pivotally mounted on the structure independently of said lever and engaged by the rear end of said lever; a catch carried by the jaw yoke plate arranged to engage said dog when said plate is moved to said inactive position to temporarily retain said plate in inactive position, and yieldable means arranged to actuate the trip lever to release the dog from said catch, upon release of the king pin from the trip lever, to allow the jaw yoke plate to return to jaw embracing position.

2,530,312
WIRE STITCHING MECHANISM
John Irving Nasmith, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company
Application July 19, 1949, Serial No. 105,621
In Great Britain July 29, 1948
7 Claims. (Cl. 1—2)

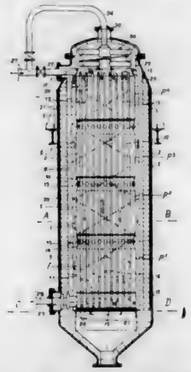


1. In wire stitching mechanism of the kind in which an outside staple former and a staple driver reciprocate along a common axis to form and drive staples, means for intermittently feeding wire stock along a line removed from said common axis and substantially at right angles thereto, a transporting element adapted to receive and hold the fed wire in the line of feed, means for cutting off a staple blank from the fed wire, and means for moving the transporting element from the feeding position in which the wire is fed and cut into the forming position in which the blank is formed into a staple and driven into the work, the said feeding and forming positions being such that the longitudinal axis of the staple blank is moved between vertical planes rotationally removed from each other.

2,530,313
FEED DEVICE FOR ROTARY BEATER MILLS WITH MEANS FOR PREVENTING BLOW-BACK OF MATERIAL
Carl D. Parten, Minneapolis, Minn., assignor to Schutz-O'Neill Co., Minneapolis, Minn., a corporation of Minnesota
Application June 2, 1947, Serial No. 751,846
1 Claim. (Cl. 241—186)

A grinding mill comprising a housing including a cylindrical top portion and providing an internal grinding chamber, a rotating hammer in said chamber, an inlet opening in the top portion of said housing positioned in advance of the vertical center line through the chamber and close to the rotating hammer with relatively small clearance therebetween and through which material to be ground is supplied, an outlet for ground material, and means for supplying the material to be ground to said inlet opening and including a closed conduit having a relatively short downwardly inclined conduit portion with one end in communication with said inlet opening and extending substantially tangentially with respect to the path of movement of said hammer across the inlet opening and positioned so that material moving from said conduit into the grinding chamber is travelling in substantially the same direction as the rotating hammer, an upstanding conduit portion in communication with the opposite end of said inclined conduit portion and providing an abrupt change of direction for material being fed therethrough, an adjustable feed gate positioned in the downwardly inclined conduit portion for controlling the flow of material therethrough, and a baffle depending from the upper wall of the said downwardly inclined conduit portion and disposed between said feed gate and said inlet opening, said baffle being inclined in the direction of feed of the material through the inclined conduit portion and terminating substantially vertically above and adjacent the lower edge of said inlet opening whereby to close off the upper part of the inclined conduit portion and to trap blown-back material between the upper inclined edge of the baffle and the adjacent wall surface of the inclined conduit portion above the inlet opening.

2,530,314
CONTACT TOWER FOR CONVERSION UNDER PRESSURE OF CARBON MONOXIDE AND THE LIKE APPLICATIONS
Oscar Pintiaux, Saint-Laurent Blangy, France, assignor to Societe de Produits Chimiques & Engrais d'Auby, Paris, France
Application March 16, 1945, Serial No. 583,122
In France June 9, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 9, 1963
5 Claims. (Cl. 23—288)



1. A contact tower for catalytic treatment, particularly for the pressure conversion of carbon monoxide and similar treatments, comprising a vertical metal casing having an inner refractory lining, a removable gas-tight cap providing a closure to the upper end of said casing, a catalyst carrier arranged inside said casing and comprising a plurality of superposed basket shaped elements having perforated base portions, a first series of open exchange tubes extending from the base of the lowermost element through said perforated bases to the upper portion of the uppermost element, a second series of tubes closed at their lower ends and suspended at their upper ends respectively inside each of said exchange tubes, an annular space between said catalyst carrier and lining, an inlet conduit for gas to be converted opening into the upper part of said annular space, and an outlet conduit for converted gas opening from below the lowermost element.

2,530,315
MODIFIED DRYING OIL-ALKYD RESINS AND PROCESS OF MAKING THEM
John B. Rust and William B. Canfield, Montclair, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application October 21, 1944, Serial No. 559,842
11 Claims. (Cl. 260—22)

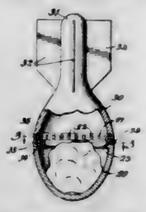
1. A soluble modified drying oil-alkyd resin, a drop of which may be drawn into strings, comprising the non-catalyzed product, at between 200° and 250° C., of a polymerizable polycarboxylic acid ester containing a plurality of carbon-carbon double bonds and comprising a beta-unsaturated monohydric alcohol ester of a polycarboxylic acid selected from the group consisting of diesters of allyl, methallyl, crotyl, and chloroallyl alcohols with phthalic, succinic, adipic, sebacic, maleic, fumaric, citraconic, itaconic, chloromaleic, 3:6-dihydrophthalic acids, butadiene-maleic adduct, cyclopentadiene fumaric adduct and isoprene-acetylene dicarboxylic acid adduct, diesters of allyl alcohol with cyclopentadiene-maleic adduct and isoprene-maleic adduct, and monesters of allyl, methallyl, crotyl, and chloroallyl alcohols with maleic, fumaric, citraconic, itaconic, chloromaleic, 3:6-dihydrophthalic acids, butadiene-maleic adduct, cyclopentadiene-fumaric adduct, and isoprene-acetylene dicarboxylic acid adduct, with a drying oil-alkyd resin formed by reacting the fatty acids of a drying oil selected from the group consisting of linseed, cottonseed, China-wood, oiticica, perilla, soya bean and sunflower seed oils, a polyhydric alcohol selected from the group consisting of glycerol, diethylene glycol, pentaerythritol, dipentaerythritol, sorbitol, mannitol, trihydroxymethylamino-methane, and trimethylolpropane, and a polycarboxylic acid selected from the group consisting of maleic anhydride, fumaric acid, phthalic acid, adipic acid, sebacic acid, and cyclopentadiene-maleic adduct, the unsaturated ester being 10% to 40% by weight of the composition, the said fatty acids being from 40% to 60% by weight of the composition.

2,530,316
ESTER MODIFIED DRYING OIL ALKYD RESINS AND PROCESS OF MAKING SAME
John B. Rust and William B. Canfield, Montclair, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Original application October 21, 1944, Serial No. 559,842. Divided and this application September 11, 1945, Serial No. 615,696
10 Claims. (Cl. 260—22)

1. The process of making a soluble modified drying oil-alkyd resin a cold drop of which may be drawn into strings, comprising heating simultaneously in the absence of a catalyst, at between 200° and 250° C., a polymerizable polycarboxylic acid ester containing a plurality of carbon-carbon double bonds and comprising a beta-unsaturated monohydric alcohol ester of a polycarboxylic acid, said polymerizable ester being selected from the group consisting of monoesters of allyl, methallyl, crotyl and chloroallyl alcohols with maleic, fumaric, citraconic, itaconic, chloromaleic, 3:6-dihydrophthalic acids, butadiene-maleic adduct, cyclopentadiene-fumaric adduct, and isoprene-acetylene dicarboxylic acid adduct, and diesters of allyl, methallyl crotyl, and chloroallyl alcohols with phthalic, succinic, adipic, sebacic, maleic, fumaric, citraconic, itaconic, chloromaleic, 3:6-dihydrophthalic acids, butadiene-maleic adduct, cyclopentadiene-fumaric adduct and isoprene-acetylene dicarboxylic acid adduct, and the diesters of allyl alcohol with cyclopentadiene-maleic adduct and with isoprene-maleic adduct, with the fatty acids of a drying oil selected from the group consisting of linseed, cottonseed, China-wood, oiticica, perilla, soya bean and sunflower seed oils, a polyhydric alcohol selected from the group consisting of glycerol, diethylene glycol, pentaerythritol, dipentaerythritol, sorbitol, mannitol, trihydroxymethylaminomethane, and trimethylolpropane, and a polycarboxylic acid selected from the group consisting of maleic anhydride, fumaric acid, phthalic anhydride, succinic acid, malonic acid, adipic acid, sebacic acid, and cyclopentadiene-

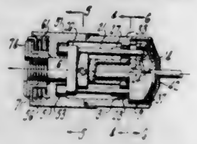
maleic adduct, the unsaturated ester being 10% to 40% by weight of the composition and the other reactants being in proportion to form a drying oil-alkyd resin in which the said fatty acids are from 40% to 60% by weight of the composition.

2,530,317
TOY EXPLOSIVE
Everett Storey, Chicago, Ill.
Application May 25, 1944, Serial No. 537,231
1 Claim. (Cl. 102—37)



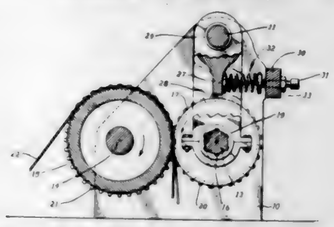
A toy explosive comprising a casing containing on its interior air and alkali metal, said casing and its contents being heavier than an equal volume of water so that the casing will sink in a body of water, said casing having overlapping wall portions, each of which is provided with an opening, said portions being movable with respect to each other to bring the openings of said portions into different degrees of registry with each other, said openings permitting the entry of water into contact with said metal to provide with said air an explosive mixture.

2,530,318
CHUCK
Earl J. Wells, Comptche, Calif.
Application September 17, 1949, Serial No. 116,233
9 Claims. (Cl. 279—68)



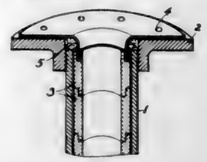
9. A chuck comprising a central hub having a face plate at one end thereof and having its other end adapted to be mounted on a rotatable shaft, a plurality of jaws mounted slidably in said face plate and adapted to be moved toward and away from one another to engage and release an object, a first cam plate rotatable about said hub and having a cam track aperture therein cooperatively positioned with respect to each jaw, a first cylindrical member carried by the first cam plate and extending rearwardly from the face plate, a first spring means between said face plate and said first cam plate and urging said face plate counterclockwise with respect to said first cam plate, a second cam plate rotatable about said hub and having a cam track recess formed therein opposite to a cam track aperture in the first cam plate, each cam track recess being substantially similar to an opposite cam track aperture, the surface of each cam recess including a plurality of like arcuate serrations to engage and retain the end of a rod member, a second cylindrical member carried by the second cam plate and engaged cooperatively with the first cylindrical member to provide a housing for the chuck, a second spring means between said hub and said second cam plate and urging said second cam plate clockwise with respect to said face plate, said face plate having a slot therein in back of each jaw and opening into the cooperatively positioned cam track aperture, a rod member having one end engaged with one of said jaws and extending through one of said cam track apertures and having its other end in one of said cam track recesses, and spaced flanged on said hub and supporting each rod member slidably.

2,530,319
PAPER-CUTTING MACHINE
Irvin L. Young, Chicago, Ill.
Application November 16, 1945, Serial No. 629,093
8 Claims. (Cl. 164—28)



1. Means for cutting a web into units comprising a rotatable roller receiving the web, a series of discs arranged in parallelism to the roller, means to jointly rotate the discs in a direction to advance the web through a contacting zone between them and the roller, and blades carried peripherally by said discs to cut the web in said contacting zone, a shaft carrying the series of discs and having a series of longitudinal splines, means in the discs to engage the splines and allow the discs a small amount of radial play, and other means utilizing such play to urge said blades into engagement with the web.

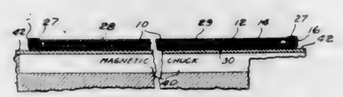
2,530,320
CORROSION RESISTANT LINER MATERIALS AND METHOD OF MAKING THE SAME
Albert Abraham, Jr., Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 22, 1948, Serial No. 28,716
7 Claims. (Cl. 117—95)



1. A method for forming a liner material substantially impervious to an acid corrosive fluid to be encountered in service comprising impregnating a porous inert structural liner material with an aqueous solution of a soluble metallic salt capable of reacting with an acid corrosive substance to form a substantially insoluble metallic salt by exchange reaction to deposit said soluble salt in the pores and interstices of said liner material, contacting said impregnated liner material with an acid corrosive substance to form an outer sealing layer of an insoluble metallic salt deposited in the pores and interstices of said liner material, closing said pores and interstices against further penetration and retaining the uncontacted soluble metallic salt as a deposit of such salt internally of the body of said liner material available for conversion.

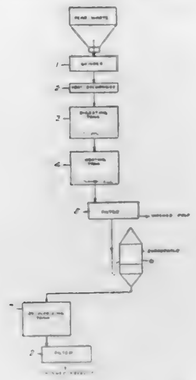
4. A method according to claim 1 in which the liner material is introduced into a pressure resistant casing, as a liner therefor, prior to initial contact with said solution of a soluble metallic salt, impregnated with said soluble salt solution, and then contacted with said acid corrosive substance.

2,530,321
X-RAY CASSETTE
Durward Armstrong, Northport, N. Y.
Application October 5, 1945, Serial No. 620,489
2 Claims. (Cl. 250—68)



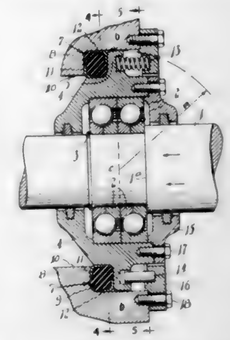
1. An X-ray cassette comprising a flat sheet tube side and a flat sheet metal table side and a lead screen inside of said table side and in intimate contact therewith, said tube side and table side being connected in such manner as to form a light-tight chamber, said lead screen constituting the supporting surface for a film placed in the cassette, said cassette containing no interposed layer capable of causing back-scatter between the film and the lead screen, said lead screen being of sufficient thickness to substantially eliminate any back-scatter effects due to secondary radiation from the table side wall of the cassette.

2,530,322
PROCESS OF RECOVERING SOLUBLE SOLIDS FROM FRUIT WASTE
Charles S. Ash, San Francisco, Calif.
Application December 21, 1948, Serial No. 66,486
2 Claims. (Cl. 99—100)



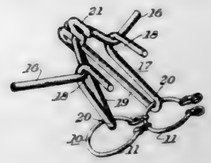
1. The process of recovering soluble solids, such as sugar, from fruit waste that comprises the steps; grinding said waste, then digesting said waste in the presence of a pectase until substantially all of the pectin is destroyed, then coagulating the albumins in the digested waste and finally separating the insoluble solids from the soluble solids.

2,530,323
SELF-ALIGNING BEARING MOUNTING
Winnett Boyd, Bobcaygeon, Ontario, Canada, assignor, by mesne assignments, to Canadian Patents and Development Limited, Ottawa, Ontario, Canada, a company
Application June 1, 1948, Serial No. 30,349
2 Claims. (Cl. 308—184)



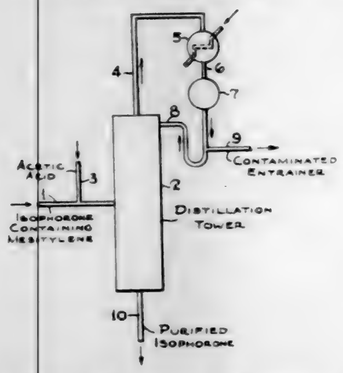
1. A thrust bearing mounting comprising a shaft housing, a machine frame in which the housing is mounted, a body of plastic substantially incompressible material deformable at normal temperatures, said body of plastic material completely filling and being entirely confined in a space between the housing and the frame, and provided with reinforcing members along the lines of discontinuity between the housing and the frame to prevent any tendency for the said body of plastic material to flow therethrough under load, means for holding the housing from rotating relative to the frame, and means for holding the housing and the frame in contact with the plastic body under conditions of slight reverse load.

2,530,324
CLOTHESLINE STRUCTURE
Edmund A. Bumbera, Turtle Creek, and Clarence S. Herr, Jr., Penn Township, Allegheny County, Pa.; said Herr, Jr., assignor to said Bumbera
Application October 9, 1946, Serial No. 702,160
1 Claim. (Cl. 211—119.01)



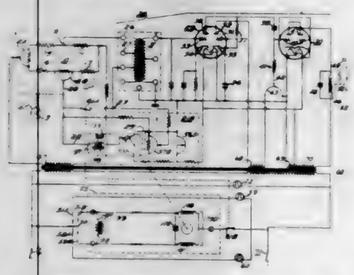
In a clothes line assembly, the combination of a pair of chains arranged to be stretched in spaced relation between fixed supports, a plurality of spaced apart fastening members provided with hooked portions detachably engaging the links of said chains, the fastening members of one chain being positioned in staggered relation with the fastening members of the other chain, and a flexible clothes line stretched between the chains in a zigzag pattern with its ends and its intermediate angles secured to the fastening members and held thereby against longitudinal slipping of the clothes line.

2,530,325
AZEOTROPIC DISTILLATION OF MESITYLENE FROM ISOPHORONE
Carl S. Carlson, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 11, 1949, Serial No. 109,661
6 Claims. (Cl. 202—42)



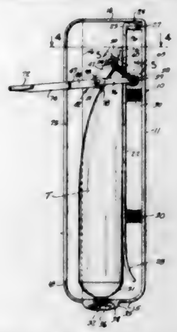
1. A process for purifying isophorone in mixtures containing both isophorone and mesitylene which comprises fractionally distilling the mixture in the presence of a substantially anhydrous C_2 to C_3 fatty acid that forms an azeotrope with mesitylene.

2,530,326
ELECTRICAL CONTROL SYSTEM AND APPARATUS
Elwood T. Davis, Brookline, Mass., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 28, 1947, Serial No. 757,745
14 Claims. (Cl. 318—28)



13. A control system for automatically controlling an agent between minimum and maximum limits to maintain a desired magnitude of a condition, for checking its own operativeness and provided for measurement of the actual magnitude of said condition from time to time comprising a balanceable network including an impedance responsive to changes in magnitude of said condition and a calibrated impedance manually adjustable to balance said network at said desired magnitude, a second network for producing an output voltage representative of the control action of said system, a detector upon which the resultant of said input voltages is impressed and including an electronic tube, relay means in the output circuit of said tube effective to vary said agent and by causing variation of said output voltage of the second network to simulate the effect of variation of said agent, means for affording "fail-safe" operation of said relay comprising a source of alternating voltage, and a potentiometer for applying a selected fraction of said alternating voltage to the grid of said tube, a pair of electrical signal devices controlled by said relay to effect continuous energization of one of the signal devices when said minimum limit is too high to effect continuous energization of the other of said signal devices when said maximum limit is too low, and to effect continuous energization of a selected one of the signal devices when said relay means responds solely to said "fail-safe" means, and means for temporarily disabling said second network for manual adjustment of said calibrated impedance to measure the actual magnitude of said condition as indicated by null response of said signal devices for the corresponding setting of said calibrated impedance and to detect inoperativeness of said control system as indicated by continued energization of said selected one of said signal devices despite adjustment of said calibrated impedance.

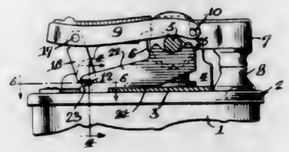
2,530,327
ROLL TYPE COLLAPSIBLE TUBE SQUEEZER
Douglas D. Derrick, St. Louis, Mo.
Application November 18, 1946, Serial No. 710,529
3 Claims. (Cl. 222—102)



1. In a device of the character indicated, a holder for a collapsible tube having a discharge opening, a tube support carried by the holder for receiving the tube thereon, and means movable along said support and cooperating therewith for collapsing the tube to eject its contents through the tube discharge opening, said means comprising an operating member, a guide therefor including roller means engaging said support, relatively spaced pressing rollers carried by said member and each engageable with the tube, a pair of elements one telescoped in the other, connecting said guide and one of said pressing rollers, and a spring connected to said telescoped elements, effective therethrough for yieldably urging said one of the pressing rollers into firm pressing contact with the tube.

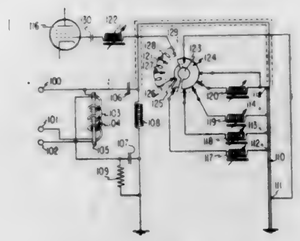
2,530,328
POCKET LIGHTER
Charles Aimé Fortin, Montreal, Quebec, Canada, assignor to Presto Lighters Limited, Montreal, Quebec, Canada
Application March 18, 1950, Serial No. 150,359
5 Claims. (Cl. 67—7.1)

1. In a pocket lighter, a top plate, a pair of side plates thereon, a main shaft mounted in said side plates, a wick cover on said shaft, an operating lever pivoted to said cover, an axle mounted in said side plates below the free end of said lever, links joining said axle to said lever, a spring surrounding said axle and having one end secured to said top plate, one of said side plates having



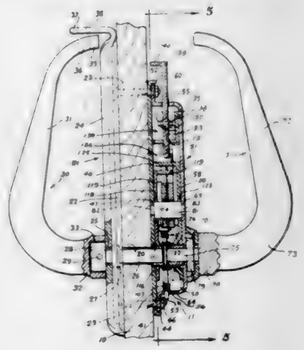
an aperture receiving an end of the axle and of a size to receive the maximum diameter of the axle, the other end of the axle being slidably received in the remaining side plate, said axle having a groove, and a locking arm having one end fitted in said groove and its other end fitted to said shaft.

2,530,329
TELEVISION RECEIVER ANTENNA INPUT CIRCUIT
George W. Fyler, Lombard, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application April 24, 1947, Serial No. 743,700
11 Claims. (Cl. 250—20)



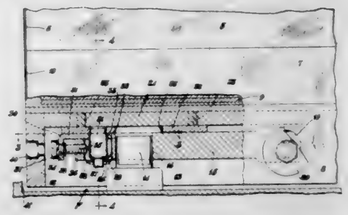
10. A system for coupling a wave signal receiver which is operable on a plurality of channels in a range of frequencies to an antenna, said system including in combination, an input circuit coupled to said antenna, an output circuit coupled to said receiver, and a conducting bar having at least a portion thereof common to said input and output circuits for coupling said circuits, said input circuit applying the signal from said antenna to said conducting bar, said output circuit including a plurality of tuning means individually connected to a plurality of points on said conducting bar, and switch means connected to said tuning means for selectively interconnecting the same, said points on said conducting bar defining portions having such lengths to provide predetermined values of inductive reactance for coupling said input circuit and said output circuit at the various frequencies of the individual channels, said switch means coupling one portion of said conducting bar in said output circuit for operation on a channel of one frequency and effectively coupling portions of said conducting bar which are progressively smaller than said one portion in said output circuit for operation on channels of frequencies which are progressively higher than said one frequency.

2,530,330
SLIDING DOOR LOCK
Alfred H. Groeger, New Hyde Park, N. Y., assignor to Kason Hardware Corporation, Brooklyn, N. Y.
Application June 23, 1948, Serial No. 34,576
19 Claims. (Cl. 292—29)



1. In combination, a lock having an inside face and including a pair of oppositely extending latches, an inside handle on the lock, an outside handle on the lock, means to raise said latches upon turning the inside or outside handles, and releasable means manually operated from the inside face of the lock to lock said latches against lifting by the outside handle while permitting lifting of the latches by the inside handle, said locking means being movable manually to release position upon operating the inside handle to lift one or the other of the latches when the locking means is in locking position, and spring means to retain the locking means in either its locking position or its release position.

2,530,331
ADJUSTABLE HINGE MECHANISM
Henry E. Hubbs, Shelby, Ohio, assignor to The Shelby Spring Hinge Co., Shelby, Ohio, a corporation of Ohio
Application July 14, 1948, Serial No. 38,599
7 Claims. (Cl. 16—129)



1. In a checking floor hinge for a door, adjustable floor hinge mechanism including a pin depending from the bottom of the door, a hinge arm having an elongated slot receiving said pin, an adjusting bracket slidably mounted on said arm and having a hole fitting snugly around said pin and registering with said slot, a screw adjustably connecting said arm and bracket for relative movement in either direction edgewise of the door, and friction washer means on said screw for holding the screw in adjusted position.

2,530,332
SEPARATION OF TERTIARY MONOHEXENES AND PREPARATION OF 2-METHYLPENTANOL-2

Boyd E. Hudson, Jr., Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application February 5, 1948, Serial No. 6,561
17 Claims. (Cl. 260—639)

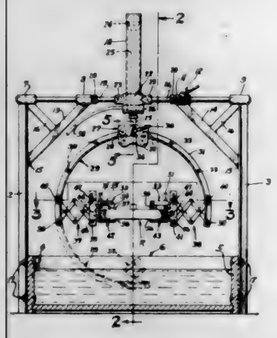
1. A process for the separation of 2-methylpentene-1 and 2-methylpentene-2 from a mixture thereof with C_6-aliphatic hydrocarbons including other tertiary monohexenes, which comprises contacting the hydrocarbon mixture with an aqueous solution of a polybasic mineral acid-acting substance forming an aqueous acid phase containing absorbed 2-methylpentene-1 and 2-methylpentene-2 and a hydrocarbon phase containing the unabsorbed C_6-aliphatic hydrocarbons, and recovering the said 2-methylpentene-1 and 2-methylpentene-2 from the acid phase.

14. A process for the preparation of 2-methylpentanol-2 from a C_6-aliphatic hydrocarbon mixture containing 2-methylpentene-1, 2-methylpentene-2 and other tertiary monohexenes which comprises contacting the hydrocarbon mixture with an aqueous solution of a polybasic mineral acid-acting substance forming an aqueous acid phase containing absorbed 2-methylpentene-1 and 2-methylpentene-2 and a hydrocarbon phase containing unabsorbed C_6-aliphatic hydrocarbons, subjecting the acid phase to steam stripping, and recovering 2-methylpentanol-2 overhead from the stripping operation.

2,530,333
APPARATUS FOR REPAIRING RADIATORS

John H. Jost, Little Falls, Minn.

Application October 25, 1946, Serial No. 705,561
8 Claims. (Cl. 73—51)



1. In an apparatus for repairing automobile radiators and the like, a standard provided at its upper end with horizontally disposed bearings, a shaft mounted for rotary movement in said bearings, a lifting device secured to the shaft, said lifting device comprising a head adapted for up-and-down movement, means in said head providing a guide, an arch-shaped member movably supported in said guide and having means at its lower ends for receiving and supporting a radiator to be repaired, said shaft, lifting device, and arch-shaped member cooperating to provide a universal support for the radiator, and a water-containing tank disposed beneath said lifting device whereby when a radiator has been repaired, said lifting device may be operated to lower the radiator into the water in said tank to check the radiator for leaks, and without removing the radiator from said arch-shaped member.

2,530,334
HYDROLYSIS OF STEROID SEMICARBAZONES

Roland Kapp, Newark, and Richard Griffith, Shrewsbury, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey

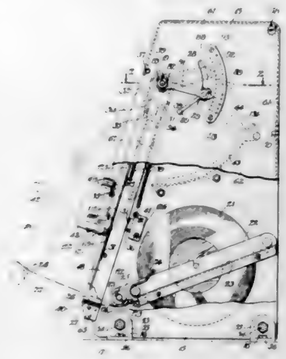
No Drawing. Application July 23, 1947, Serial No. 763,166
14 Claims. (Cl. 260—397.4)

1. A method for hydrolyzing a steroid semicarbazone selected from the group consisting of semicarbazones of steroids having as the only substituents one hydroxyl group and one keto group, semicarbazones of esters of steroids which steroids have as the only substituents one hydroxyl group and one keto group, and semicarbazones of steroids having as the only substituents two keto groups, which method comprises hydrolyzing the steroid semicarbazone with an aqueous mineral acid solution to the corresponding steroid ketone in a reaction medium comprising a water-immiscible liquid organic solvent for the steroid ketone and in which the resulting semicarbazide salt and reaction by-products are substantially insoluble, said solvent being selected from the group consisting of aromatic hydrocarbons and halogenated aliphatic hydrocarbons.

2,530,335
ADHESIVE TAPE DISPENSER

Theodore H. Krueger, Stratford, and Everett E. Sharpe, Shelton, Conn., assignors to Better Packages Incorporated, a corporation of New York

Application January 28, 1946, Serial No. 643,934
14 Claims. (Cl. 164—48)

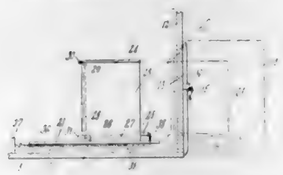


1. In apparatus for serving pressure sensitive tape, a main supporting frame, a plurality of adjustable stops on the main supporting frame, a measuring member movably connected to the supporting frame by means permitting back and forth movement to and from a position of rest, said measuring member including a support movable with the leading end of the tape during movement of the measuring member away from its position of rest, a selector mechanism cooperating with the stops to effect the engagement of the measuring member with either one or another of the adjustable stops so as to limit its range of movement whereby to dispense a tape strip of one length when engaging one of the stops and a tape strip of another length when engaging another of said stops.

2,530,336
DISAPPEARING REFUSE HOLDER

Donato Marini, Quincy, Mass.

Application May 13, 1947, Serial No. 747,748
5 Claims. (Cl. 312—175)

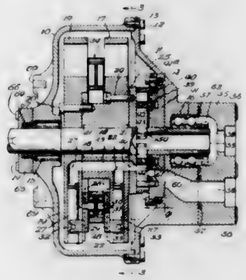


1. In combination with a floor and front wall of an enclosed space, and a door hinged to said front wall so as to cover and uncover a doorway in the wall, parallel guides extending rearwardly from the front wall adjacent to opposite sides of the doorway, a shelf on the lower portion of the doorway extending into the space between said guides when the door is closed and having a curved edge concentric with the hinge axis of the door, a filler piece on the floor between the guideways in the same plane with said shelf having a forward edge substantially complemental to the curved edge of the shelf, a slide lying on said filler piece and shelf with its lateral margins confined by said guides, and a pin on the shelf projecting upwardly into a transverse slot in the overlapping part of the slide.

2,530,337
FLUID PRESSURE UNIT

Donald H. McGogy, Vancouver, Wash., assignor to Edward S. Marnon, Oregon City, Oreg.

Application April 12, 1946, Serial No. 661,463
8 Claims. (Cl. 103—161)

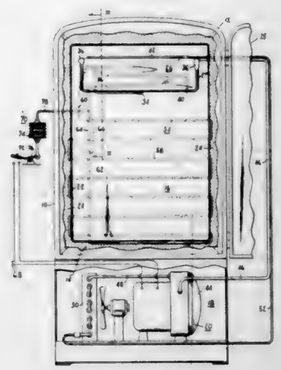


1. A device of the class described, comprising: a rotary shaft, a first member carried by said shaft and having a surface normal to the axis of rotation thereof and concentric therewith, a plurality of port openings in said surface arranged in a circle concentric with said axis, a second member concentric with said shaft having a surface parallel to that of said first member and spaced therefrom, said second member being non-rotatable, a first ring concentric with said shaft and slidably mounted in an annular groove in said second member and bearing along one edge against the said surface of said first member, spring means urging said first ring toward said first member, a second ring disposed internally of said first ring and eccentrically of said shaft and slidably mounted in a second annular groove in said second member and bearing along one edge against the said surface of said first member, and spring means urging said second ring toward said first member, said second ring being spaced radially from said first ring to form an annular chamber, the arrangement being such that said port openings move consecutively into and out of communication with said annular chamber and alternately into and out of communication with a chamber inside said second ring, when said shaft is rotating, said shaft having a fluid passageway extending axially thereof from one end and communicating with the last-mentioned chamber, said second member having a fluid passageway therethrough communicating with said annular chamber.

2,530,338
TEMPERATURE CONTROL APPARATUS

John A. McLean, Jr., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 22, 1947, Serial No. 743,049
6 Claims. (Cl. 62—4)



1. In refrigerating mechanism, the combination of a primary evaporator, apparatus for supplying said primary evaporator with a volatile liquid refrigerant and for withdrawing vaporized refrigerant from said evaporator, thermostatic control for rendering said apparatus active and inactive, and a secondary volatile refrigerant circuit operating at the same pressure throughout, said secondary circuit having a first portion in heat transfer relationship with said primary evaporator for condensing refrigerant vapor in said secondary circuit, said circuit having a second portion for absorbing heat to vaporize refrigerant liquid in said circuit, said secondary circuit having a third portion for conducting refrigerant vapor from said second portion to said first portion, said circuit also having a fourth portion for conducting refrigerant liquid from said first portion to said second portion, said thermostatic control including a temperature-responsive actuating element in heat-transfer relationship substantially solely with said fourth portion of said circuit.

2,530,339
COMPOUNDED PETROLEUM HYDROCARBON PRODUCTS
Louis A. Mikeska, Westfield, and Allen R. Kittleson, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 24, 1946, Serial No. 718,258
22 Claims. (Cl. 252—32.7)

1. A product consisting essentially of a petroleum hydrocarbon material and from about 0.02 to about 2% of an aromatic methylene product of a thio acid of phosphorus, such product being a member of the group consisting of (1) compounds of the formula

$$(R').(OT).Ar.[CH_2SP(OR)_2]_m$$

and (2) mixtures of compounds of the above formula and compounds of the formula

$$(R').(OT).Ar.[CH_2SP(OR)_2]_m$$

where Ar in each of the above formulas is an aromatic nucleus selected from the class consisting of benzene rings, groups of two benzene rings linked by a methylene radical, and groups of two benzene rings linked by at least one sulfur atom, R is a hydrocarbon radical of the class consisting of alkyl and alkaryl groups, R′ is an alkyl radical containing from about eight carbon atoms up to the number of carbon atoms characteristic of paraffin wax, T is a member of the class consisting of hydrogen and metal equivalents of hydrogen, R′ and OT being attached to an aromatic nucleus, and *m* is a small integer.

20. As a new composition of matter a compound of the class consisting of (1) compounds of the formula

$$(R').(OT).Ar.[CH_2SP(OR)_2]_m$$

and (2) mixtures of compounds of the above formula and compounds of the formula

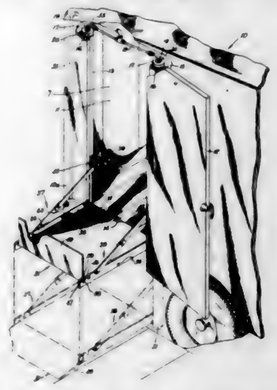
$$(R').(OT).Ar.[CH_2SP(OR)_2]_m$$

where Ar in each of the above formulas is an aromatic nucleus selected from the class consisting of benzene rings, groups of two benzene rings linked by a methylene radical, and groups of two benzene rings linked by at least one sulfur atom, R is a hydrocarbon radical of the class consisting of alkyl and alkaryl groups, R′ is an alkyl radical containing from about eight carbon atoms up to the number of carbon atoms characteristic of paraffin wax, T is a member of the class consisting of hydrogen and metal equivalents of hydrogen, R′ and OT being attached to an aromatic nucleus, and *m* is a small integer.

2,530,340
HUMIDOR
Solomon M. Sager, Chicago, Ill.
Application July 8, 1946, Serial No. 682,094
1 Claim. (Cl. 299—24)

A humidor comprising a cylindrical shell having an elongated opening and closed ends, an open-ended transparent tube fitted in said shell and having moisture-liberating openings coinciding with said elongated opening and moisture-liberating material contained within said shell, said moisture-liberating material consisting essentially of granular clay capable of liberating absorbed moisture, a wetting agent and a dye capable of undergoing a color change as the moisture content of the clay decreases.

2,530,341
LOADING AND UNLOADING ELEVATOR PLATFORM FOR VEHICLES
Henry J. Satsky, Newark, N. J.
Application October 11, 1946, Serial No. 702,780
4 Claims. (Cl. 214—75)



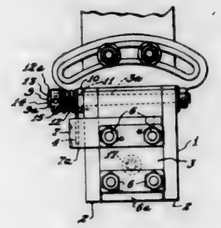
1. In a hydraulic system including a liquid tank under air pressure control, a device of the nature described, said device comprising a pair of spaced apart vertically disposed cylinders, a slidable hollow cylindrical piston in each of said cylinders, a pipe line connected to the liquid tank and the interior of the hollow pistons, means for controlling the flow of liquid under pressure from the liquid tank to the hollow pistons and back to the tank for moving said hollow pistons up and down in the said cylinders, said means comprising a normally closed liquid valve in the pipe line, a normally closed air valve in the pipe line, a rotatable shaft, a two arm lever on the shaft, a pivotally mounted lever arm on the liquid valve operable by one of the two arms of said lever when the shaft is rotated in one direction to open the liquid valve to permit the liquid to flow from the tank to the pistons and operable by the other arm of the said two armed lever when the shaft is rotated in the opposite direction to open the said liquid valve to permit the return of the liquid from the pistons to the tank, a second lever arm on the shaft, another lever arm on the air valve, a chain connecting the said last-mentioned lever arms to operate the air valve from closed to open position for putting the liquid under air pressure only when the liquid valve is operated to permit the flow of liquid to the pistons, and a loading platform carried by said hollow pistons.

2,530,342
CARBOHYDRATE C-NITROOLEFINS AND METHOD OF PREPARATION
John Clinton Sowden, St. Louis, Mo., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application August 29, 1947, Serial No. 771,377
21 Claims. (Cl. 260—209)

18. The process of making D-arabo-2-desoxyhexose which comprises dissolving 1-nitro-1,2-didesoxy-D-arabohexitol tetraacetate in alkali metal hydroxide, followed by acidification with sulfuric acid, neutralization by an alkaline-earth metal carbonate, filtration, treatment with benzylphenylhydrazine, and cleavage with benzaldehyde.

21. As a new composition of matter D-arabodesoxyacetoxy-1-nitrohexene-1.

2,530,343
COUNTERBALANCED APRON FOR PLANERS AND THE LIKE
John M. Walter, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio
Application November 30, 1946, Serial No. 713,325
7 Claims. (Cl. 90—54)



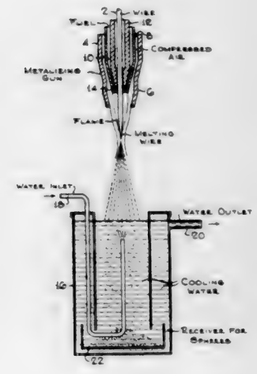
1. In combination a tool box having a seat, an apron pivotally mounted at its upper end on the tool box to rest against said seat during a cutting stroke, and arranged for mounting of tools thereon, a torsion spring secured to the apron, and having an end abutting the tool box so arranged as to exert energy in the direction of swinging the apron on its pivot to raise the apron from its seat to counterbalance the weight thereof during a return stroke.

2,530,344
HYDROCARBON SYNTHESIS WITH SPHERICAL CATALYST PARTICLES
Rhea N. Watts, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application April 2, 1947, Serial No. 738,915. Divided and this application September 6, 1947, Serial No. 772,595
3 Claims. (Cl. 260—449.6)

1. Improved process for the synthesis of hydrocarbons which comprises introducing carbon monoxide and hydrogen into a synthesis zone maintained at temperature and pressure conditions adapted to effect said hydrocarbon synthesis, and contacting said hydrogen and carbon monoxide with a bed of fluidized iron spherical catalyst which catalyst has been introduced into said zone in the form of spheres characterized by having an unoxidized solid iron core and an oxidized iron surface.

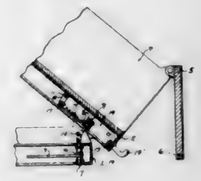
2,530,345
PREPARATION OF A SPHEROIDAL FISCHER-TROPSCH CATALYST
Rhea N. Watts, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 30, 1948, Serial No. 51,987
10 Claims. (Cl. 252—443)

1. A process for the preparation of an iron catalyst comprising iron microspheres containing iron cores and oxidized coatings, wherein said oxidized coatings may have thicknesses up to about 20 microns, which comprises melting substantially pure iron, spraying molten iron predominantly in the form of substantially spherical particles substantially exclusively above 20 microns in diameter through an atmosphere comprising 5 to 60% oxygen and through a distance of from about ½ to about 3 feet and quenching the resultant sprayed material in water, whereby solid iron spheres containing relatively pure iron cores and oxidized coatings are obtained, controlling said oxygen percentage and said distance within the ranges indicated in such a manner that the thickness of



said coatings is about 3–20 microns, and adding a promotional amount of a compound selected from the group consisting of the oxides and carbonates of sodium and potassium by a method selected from the class consisting of pre-coating an iron wire, impregnating during quenching and impregnating after quenching.

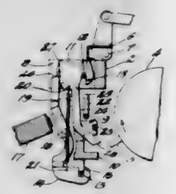
2,530,346
TAIL GATE ACTUATING MECHANISM
William A. Wolf, Medina, Wis.
Application July 15, 1949, Serial No. 104,957
2 Claims. (Cl. 298—23)



1. In a dump truck having a truck-frame and a box-frame, a box carried by the box-frame, the truck-frame and box-frame being in pivotal connection, a tail-gate pivoted to the box having studs extending from its free ends; a lock and

release mechanism for the tail-gate, comprising a vertically disposed lower master shaft section journaled in the truck-frame, in juxtaposition to the box-frame pivots, an upper master shaft section journaled in the box-frame, a universal coupling connecting the master shaft sections in axial alignment with the box-frame and truck-frame pivots, a transversely disposed dog shaft journaled in the box-frame, crank-arms secured to the ends of the dog shaft, lock and release dogs connected to said crank-arms having heads provided with open jaws engageable with the tail-gate studs and outer cam faces formed in the dog heads, guide rollers extending from the truck frame for engaging the cam faces of the dog heads, a third crank-arm secured to the dog shaft intermediate its ends, a lever-arm secured to the upper section of the master shaft, a link connecting the shaft crank-arm and lever-arm, a second lever-arm secured to the lower master shaft section, a shift lever mounted in the truck cab, and a rod connecting the shift lever and second lever-arm, whereby the mechanism is manually actuated to move the dogs back and forth for locking and releasing the tail-gate.

2,530,347
SELECTOR MECHANISM FOR AUTOMATIC PHONOGRAPHS
Lloyd J. Andres, Itasca, Ill., assignor, by mesne assignments, to H. C. Evans & Company, Chicago, Ill., a corporation of Illinois
Application August 17, 1946, Serial No. 691,197
4 Claims. (Cl. 274—10)



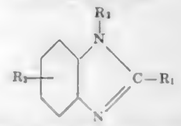
1. In combination with a selector drum and a selector-actuated element of an automatic phonograph, selector mechanism comprising a support, an operating latch pivotally connected to said support and having a working part movable into the path of an actuating lug on said selector drum and a part arranged to actuate said selector-actuated element of the phonograph when force is applied to said first-mentioned part by said actuating lug, an abutment on said operating latch, a tripping latch pivotally connected to said support by a pin-and-slot connection, permitting lineal as well as pivotal movement of such latch, and having a working part normally engaging said abutment on the operating latch, means for operating the tripping latch to disengage the same from said operating latch, and means for thereupon moving said operating latch into the path of said lug, the operating latch being movable by the lug to a position in which it is disengaged by the latter and in which the abutment thereon is automatically re-engageable by said working part on the tripping latch upon disengagement of the operating latch by said lug, said tripping latch being movable lineally by said operating latch, in shock absorbing motion, upon re-engagement of said abutment with said working part.

2,530,348
HALOGENATED DERIVATIVES OF ALIPHATIC ACIDS, LACTONES AND METHOD OF MAKING SAME
Edgar C. Britton and John C. Vander Weele, Midland, Mich., and John E. Livak, Clemson, S. C., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application November 7, 1946, Serial No. 708,462
9 Claims. (Cl. 260—344)

1. The gamma lactone of an otherwise unsubstituted alpha-halo-gamma-hydroxy-butyric acid.

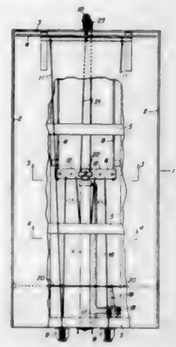
2,530,349
CYAN COLOR FORMERS CAPABLE OF YIELDING FINE GRAIN IMAGES
Winfred C. Craig, Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 30, 1947, Serial No. 745,113
5 Claims. (Cl. 95—6)

1. A photographic silver halide emulsion containing as a color former for the cyan the compounds of the following formula:



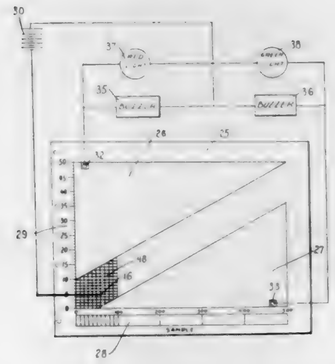
wherein R_1 is a hydroxy aromatic radical, the hydroxy group being nuclear attached, and said radical being linked to the benzimidazole radical in ortho-position to said hydroxy group, R_2 is a long aliphatic chain capable of rendering said compound fast to diffusion in the photographic emulsion and R_3 is a water solubilizing group.

2,530,350
UNLOADER FOR FARM VEHICLES
Elmer R. Ehlert, Tipton, Iowa, assignor to Tipton Mfg. Co., Inc., Tipton, Iowa, a corporation of Iowa
Application January 8, 1949, Serial No. 69,912
1 Claim. (Cl. 214—82)



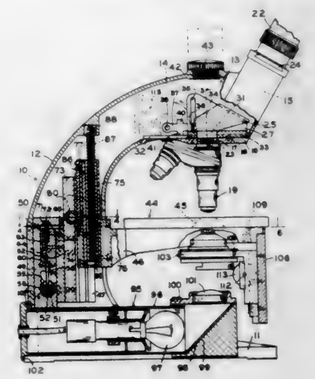
A vehicle box unloader comprising a false endgate for the vehicle box, cables connected thereto for moving the endgate toward one end of the box, said cables extending from the endgate to the opposite end of the box and over pulleys at that end, a crossbar under the box approximately midway of the length thereof, pulleys carried by said crossbar, said cables passing from the first pulleys to and through the second pulleys and then in the general direction of the first pulleys, a hydraulic jack secured at one end to said crossbar and at its second end to the framework of the box between the first pulleys, said cables passing from the second pulleys to the body of the endgate to which they are secured, a single cable secured at one end to the central part of the false endgate and passing through the adjacent true endgate, a central pulley on the crossbar and a central pulley on the frame of the box adjacent the true endgate, the single cable, after passing through the true endgate, passing through the last mentioned pulley, to and through the central pulley on the crossbar and from there to the end of the box having the true endgate where it is securely fastened.

2,530,351
SEQUENTIAL INSPECTION RECORDER
Forrest G. Fales, Marblehead, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application December 15, 1948, Serial No. 65,477
3 Claims. (Cl. 177—311)



1. An inspection recording and indicating apparatus comprising; a frame for supporting the apparatus; a drum; a shaft on which the drum is supported, said shaft being rotatably mounted in said frame; a record card attached to said drum; electrical-conducting acceptance and rejection indicating means on a face of said record card; a track of electrical conducting material disposed adjacent said drum and extending substantially parallel thereto, along the longitudinal axis thereof; an electrical conducting indicating pointer slidably mounted on said track, an end thereof being engageable with said card; means for effecting indexing linear movement of said pointer along said track a pre-determined indexing unit distance; means for effecting indexing rotational movement of said drum a predetermined indexing unit distance; an acceptance-indicating electrical circuit; means electrically connecting the acceptance-indicating means on the card to the acceptance-indicating circuit; a rejection-indicating electrical circuit; means electrically connecting the rejection-indicating means on the card to the rejection-indicating circuit; and a source of electrical energy to which both of said circuits are connected.

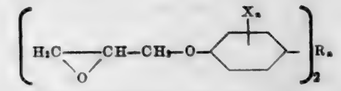
2,530,352
MICROSCOPE
Bernhardt George Gallasch, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application October 18, 1946, Serial No. 704,209
3 Claims. (Cl. 88—39)



3. A microscope comprising a stand, optical means carried by and forwardly of said stand for forming an enlarged image of a specimen, a movable stage supported by and extending forwardly from its point of support on the stand and having an opening over which the specimen is placed for examination, means including guideways on said stand for slidably mounting said stage thereon, adjustment mechanism for moving the stage vertically to bring the specimen into focus, support means carried solely by said stage and depending from the front edge thereof, the front edge of the stage being remote from the stand, condensing lens means for condensing light rays onto said specimen, said condensing lens means being slidably mounted on the support means, and adjusting means carried by the support means for adjustably moving the condensing lens means for focusing the light rays onto the specimen.

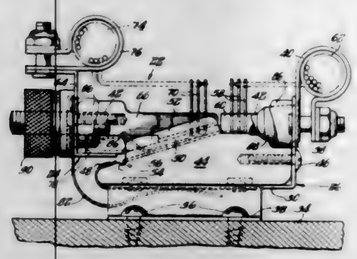
2,530,353
THERMOSTABLE POLYMERIC VINYLIDENE CHLORIDE COMPOSITION
Carl B. Havens, Hope, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application May 7, 1949, Serial No. 92,069
4 Claims. (Cl. 260—45.8)

1. A composition of matter comprising a polymeric vinylidene chloride product which tends to decompose when heated, and, as a heat stabilizing agent therefor, from 1 to 20 per cent by weight of a compound having the general formula



wherein R is an aliphatic hydrocarbon bridge, each n independently has one of the values 0 and 1, and X is an alkyl radical containing from 1 to 4 carbon atoms.

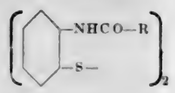
2,530,354
MULTICONTACT CONNECTOR
Lamar E. Hayslett, Kenmore, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application February 24, 1947, Serial No. 730,588
12 Claims. (Cl. 173—328)



1. An electrical connector comprising a first member of insulating material, a plurality of first contacts disposed on said first member adjacent a surface thereof, said first contacts being elongated and of sinuous form substantially in a plane parallel to the plane of said surface, a second member of insulating material, a plurality of second contacts disposed on said second member and respectively adapted to cooperate with said first contacts, said second contacts being elongated, and means for guiding said first and second members into association with each other along a path having a component extending longitudinally of said contacts when the connector is assembled in closed-circuit position to bring the contacts into engagement respectively at a plurality of points along their length, the sum of the distances separating said first and second contacts respectively from the surfaces of said first and second members when the connector is in its open-circuit position being greater than the distance between said surfaces when the connector is in its closed-circuit position.

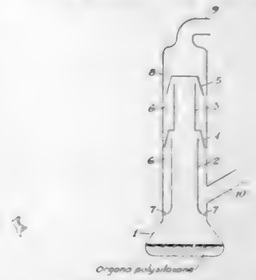
2,530,355
CATALYTIC PLASTICIZERS FOR NATURAL AND SYNTHETIC RUBBER
Edwin Oscar Hook, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 6, 1948, Serial No. 58,797
8 Claims. (Cl. 260—30.8)

1. A process of increasing the rate of plasticizing an unvulcanized elastomer selected from the group consisting of vulcanizable natural rubber and synthetic rubber-like polymers of conjugated diolefinic monomers capable of being plasticized by hot mastication in the presence of oxygen, which comprises admixing the elastomer with from 0.025–5% of an o, o'-disubstituted-diphenyldisulfide having the type formula



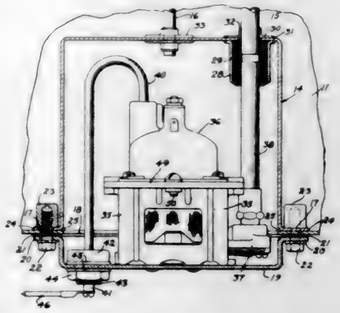
wherein COR is selected from the group of the thenoyl, furoyl, and nicotinoyl radicals, and treating the mixture at temperatures of from 100°–165° C. for sufficient time to effect the desired plasticity.

2,530,356
HIGH VACUUMS
Melvin J. Hunter, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application June 13, 1945, Serial No. 599,315
12 Claims. (Cl. 230—101)



1. In a method of producing high vacua by means of a condensation pump, the improvement which comprises entraining gas, from the system to be evacuated, in a stream of vapors of an actuating fluid consisting essentially of an organo-polysiloxane in which the organic portion of the molecule is composed of phenyl and lower alkyl radicals and all valences of the silicon atoms are satisfied by siloxane linkages and by carbon atoms of organic radicals, and which boils at a temperature within the range of from 250° C. to 500° C. at atmospheric pressure and is substantially free of material boiling below said range.

2,530,357
FUEL PUMP MOUNTING
Francis W. Kateley, Upper Darby, Pa., assignor to ACF-Brill Motors Company, Philadelphia, Pa., a corporation of Delaware
Application November 30, 1945, Serial No. 631,830
7 Claims. (Cl. 222—385)

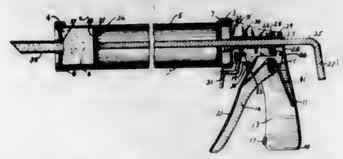


1. In a fuel tank, a compartment within the tank mounted on one of the walls thereof, a fuel pump mounted on said wall and having an inwardly facing discharge opening, a fuel delivery tube extending from a coupling in a wall of said compartment through the main tank wall, a second delivery tube extending from said discharge opening to said coupling means providing communication between the tank and the compartment, and means to cut off said communication, said wall being separably attached to the tank to permit ready removal of said pump and its delivery tube as a unit, said cut off means preventing loss of fuel from the tank proper when said wall is removed.

2,530,358
N,N-DIMETHYL-N'-(2-PYRIDYL)-N'-(2-BENZOTHENYL) ETHYLENE DIAMINE
Gustav J. Martin, Philadelphia, and Souren Avakian, Oreland, Pa., assignors to The National Drug Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 28, 1948, Serial No. 46,727
1 Claim. (Cl. 260—296)

N,N - dimethyl - N' - (2 - pyridyl) - N' - (2-benzothenyl) - ethylene diamine.

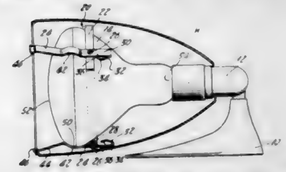
2,530,359
OPERATING MECHANISM FOR PLUNGERS OF CAULKING GUNS
Wilbur P. Peterson, Independence, Mo., assignor to Northeast Tool and Die Works, Inc., Kansas City, Mo., a corporation of Missouri
Application March 20, 1948, Serial No. 16,110
3 Claims. (Cl. 222—327)



1. In a caulking gun, the combination of a magazine, a hollow handle secured to the magazine, said handle being open toward the front, a plunger operating rod extending out of the magazine and through said handle, a movable feeding plate within the handle loosely surrounding the rod, an apertured holding plate within the handle between the feeding plate and the rear end of the magazine and closely surrounding the rod, a fixed fulcrum for the holding plate within the handle below the rod, a spring surrounding the rod between the holding plate and the rear end of the magazine tending to swing the holding plate about its fulcrum into engagement with the rod for binding said rod against rearward movement, a compression spring surrounding the rod between the feeding plate and holding plate, said compression spring having ends engaging the feeding plate and holding plate and acting to urge the feeding plate away from the holding plate, an operating lever pivoted within the handle for canting the feeding plate and moving it forwardly to feed the rod, and means whereby the holding plate may be swung out of binding engagement with the rod.

2,530,360
LIGHT BULB SUPPORT COMPRISING A RING HAVING A PLURALITY OF FINGERS EXTENDING FORWARDLY AND REARWARDLY OF THE RING
Edison A. Price, New York, N. Y., assignor to Display Lighting Incorporated, New York, N. Y., a corporation of New York
Application February 3, 1948, Serial No. 6,111
5 Claims. (Cl. 240—41.5)

1. An apparatus for supporting an open mouthed bullet housing on the head of an electric light bulb which apparatus comprises an annular ring member, a plurality of fingers extending rearwardly of the ring and beyond the plane thereof, means to secure the fingers to the ring, and extensions directed inwardly of the ring in the plane thereof to locate the front end of the



bulb and a plurality of fingers extending forwardly of the ring and beyond the plane thereof to engage and grip the housing at the mouth thereof, whereby to support the said housing on said bulb.

2,530,361
LIGHT BAFFLE AND SUPPORT THEREFOR
Edison A. Price, New York, N. Y., assignor to Display Lighting Incorporated, New York, N. Y., a corporation of New York
Application February 3, 1948, Serial No. 6,112
7 Claims. (Cl. 240—46.41)

1. A light baffle, circular in outline, comprising a relatively narrow, elongated strip, the ends of which, from adjacent the center thereof, are oppositely wound about one another in helical coils, the convolutions being self-supporting, with the midpoint of the strip being in the center of the baffle, and the terminal ends of the strip being disposed at the periphery of the baffle.

2,530,362
COAGULATION OF NONELASTIC POLYMERS
Elton K. Morris, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application November 22, 1946, Serial No. 711,803
3 Claims. (Cl. 18—54)

1. The method which comprises providing a latex-like dispersion of a copolymer of vinylidene chloride with a compound containing a single ethylenic unsaturation which is non-elastic as compared with rubber, and which settles rapidly when coagulated, feeding a stream of the latex from 0.002 to 0.20 inch in diameter into an excess of a liquid coagulant to form filamentary particles of the polymer which do not permanently occlude water and water-soluble impurities, and washing the particles with fresh water to free them from water-soluble impurities.

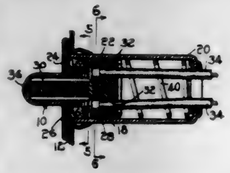
2,530,363
ACTION SLIDE FOR FIREARMS
Carl G. Swebilius, Hamden, Conn.
Application May 9, 1947, Serial No. 746,971
7 Claims. (Cl. 29—148)

5. In the manufacture of firearms, the method of forming an action-slide mechanism embodying

a crosshead and a pair of action-slide rods which method comprises the steps of; drilling a pair of longitudinal apertures through a substantially-cylindrical bar, each aperture being parallel to and spaced laterally from the longitudinal axis thereof, dividing said cylindrical bar into a plurality of longitudinally-apertured cylindrical

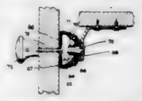
blanks, securing one end of an action-rod in each longitudinal aperture of one of said cylindrical blanks, thereafter shaping each cylindrical blank to the form of a crosshead by removing stock from the periphery thereof and from the periphery of the corresponding end of each action-rod, and then milling a flat on the inside wall of each of said action-rods.

2,530,364
ELECTRICAL SWITCH
Clement A. Woodward, Wellesley, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 14, 1949, Serial No. 70,890
2 Claims. (Cl. 200—54)



1. An electrical switch comprising a substantially tubular casing having inturned flanges at one end defining an opening, an insulating end member secured in the other end of said casing having an aperture extending therethrough into the casing, and a shorting contact member surrounding the aperture on the face disposed within the casing, a contact-carrying member of insulating material disposed within said casing provided with an operating plunger extending through the aperture of said insulating end member, said contact-carrying member having contact-receiving cavities on a face opposite said end member, and contact-retaining means on said plunger overlying said cavities, contact members loosely disposed in said cavities, connecting wires extending from said contacts through said contact-carrying member and the opening defined by said inturned flange, spring means disposed in said contact cavities for urging said contacts toward said contact-carrying means, and other spring means disposed in said casing between said flange and said contact-carrying member for urging said contact-carrying member toward said other end, said plunger through said aperture, and said contacts into contact with said shorting contact member.

2,530,365
DOORSTOP AND CATCH ASSEMBLY
Nels H. Johnson and Harold A. Andrews, Southbridge, Mass.
Application June 25, 1948, Serial No. 35,184
10 Claims. (Cl. 292—17)

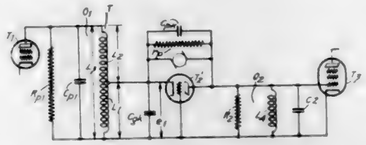


1. A device of the character described comprising the combination of a male portion having a relatively pointed end and a circumferential groove adjacent said end, a bumper member on said male portion spaced rearwardly of said circumferential groove, a bumper plate, a backing plate carried by said bumper plate, and a member embodying a portion having a central opening therein for receiving said male portion, said member embodying a plurality of spring fingers surrounding said opening, said member being floatingly supported between the bumper plate and the backing plate carried by said bumper plate for free movement in sidewise directions.

ABSTRACTS OF APPLICATIONS

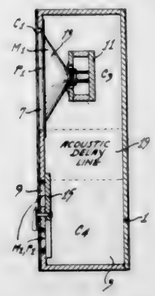
Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

597,769. **SINGLE-TUNED LOW-NOISE INTERMEDIATE FREQUENCY AMPLIFIER.** Herbert A. Finke, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware. Filed June 6, 1945. Published Nov. 14, 1950. Class 179—171. 2 sheets of drawings. 28 pages of specification.



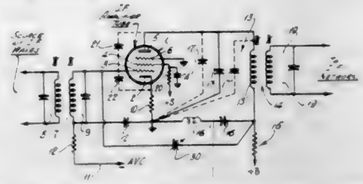
The disclosure relates to an interstage coupling system for coupling a mixer tube to the first intermediate frequency signal amplifier in a superheterodyne receiving system. A closely coupled, single tuned, step down transformer is connected in the anode circuit of the mixer tube. A grounded-grid triode is cathode coupled to the secondary circuit of the step-down transformer and the triode anode circuit is coupled to the input circuit of the first intermediate frequency signal amplifier. This arrangement provides a low-noise, relatively broad band, easily aligned coupling system.

637,670. **SOUND TRANSLATING DEVICE.** Harry F. Olson, Princeton, and John Preston, Hopewell, N. J., assignors to Radio Corporation of America, a corporation of Delaware. Filed Dec. 28, 1945. Published Nov. 14, 1950. Class 181—31. 2 sheets of drawings. 13 pages of specification.



The disclosure relates to an improved phase inverter loudspeaker system whereby the low frequency response can be adjusted for different conditions of use. There is provided a casing 1 which encloses an air chamber 3 and which has two openings 7, 9 disposed in a wall thereof. A sound translating unit 11 having a diaphragm 13 is mounted behind one of the openings 7 so as to close the chamber off from the atmosphere at that opening. The second opening 9 provides a path for sound waves produced by the diaphragm from the chamber to the atmosphere. In order to vary the acoustic impedance of the sound path between the two diaphragm surfaces and hence vary the low frequency response, a shutter 15 is mounted over the second opening 9 which can be adjusted to vary the size of the opening. The response is improved by providing an acoustic delay line 19 in the cabinet between that portion C_3 of the air chamber behind the diaphragm and that portion C_4 of the air chamber behind the second opening. This acoustic delay line is preferably of such length that it introduces an acoustic delay of the order of $\frac{1}{8}$ wavelength at the frequency of maximum response.

657,418. **HIGH FREQUENCY AMPLIFIER NEUTRALIZATION CIRCUIT.** William F. Sands, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed Mar. 27, 1946. Published Nov. 14, 1950. Class 179—171. 2 sheets of drawings. 15 pages of specification.



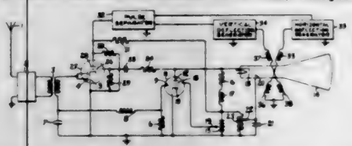
The subject matter of this application relates to a neutralizing circuit for a high frequency amplifier circuit of the type utilizing an unbypassed cathode resistor for preventing the detuning effect of an automatic volume control potential. There is provided a neutralizing capacitor connected between the grid and the low alternating current potential side of the anode circuit. This capacitor in combination with the inherent interelectrode capacity of the tube, the anode and automatic volume control circuit by-pass capacitors and the anode circuit tuning capacitor constitute a balanced capacity bridge arrangement. The undesired anode-grid feedback is thus balanced out thereby maintaining the symmetry of input characteristic curve over a relatively wide range of automatic volume control potentials.

686,686. **TELEVISION RECEIVER CIRCUIT.** Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York. Filed July 27, 1946. Published Nov. 14, 1950. Class 178—7.5. 1 sheet of drawings. 10 pages of specification.

The disclosure relates to the video detector, video amplifier, and synchronizing pulse separation circuits of a television broadcast receiver. As shown in the figure, the second detector for the picture signal comprises the diode 4, 5 and its diode load 6, 7, 8. It is D. C.-coupled to the control grid 9 of the output video amplifier 11, and the anode 12 of this amplifier is also D. C.-coupled to the cathode 13 of the television picture tube 14. The control grid 20 of the picture tube is suitably biased from potentiometer 23 and power supply 15.

This D. C. coupling arrangement provides automatic background brightness control, and eliminates the need for a separate D. C. restorer. The polarities of the signals are also such that the effect of noise pulses is minimized, since noise tends to cut off the video amplifier and picture tube, and does not produce white streaks in the picture image.

The video signal at anode **12** is also coupled to

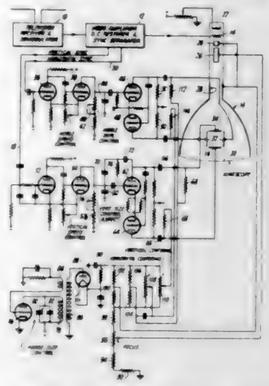


a synchronizing pulse clipper, consisting of triode elements **26, 28, 5**, which selects the synchronizing pulses and supplies them to a pulse separator **32** and thence to the deflection generators **33** and **34** in conventional manner. In this way, additional amplification of the synchronizing pulses is also secured in amplifier **11** before supplying them to the clipper.

783,199. METHOD OF OPERATING AND ADJUSTING A TELEVISION RECEIVER. Earl I. Anderson, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware. Filed Oct. 30, 1947. Published Nov. 14, 1950. Class 178—7.5. 1 sheet of drawings. 20 pages of specification.

The disclosure of this application relates to an improvement in the method of initially adjusting a television receiver so that images of maximum light intensity may be derived therefrom. Maximum deflection voltage variation commensurate with the desired linearity are used so that the highest possible second anode potentials may be applied to the kinescope.

The steps set forth include an adjustment of the horizontal deflection generator comprising tubes **36** and **38** to obtain maximum deflection commensurate with acceptable linearity. Subsequent to this adjustment, the vertical deflection generator comprising tubes **52** and **54** is adjusted to obtain the desired aspect ratio. The adjustment of the vertical deflection generator follows that of the horizontal since normally a greater

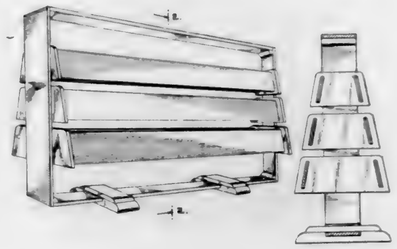


degree of deflection is generally available in the vertical direction than is the case in the horizontal direction. After maximum deflection is obtained with the vertical deflection adjusted to produce the desired aspect ratio, the high voltage oscillator **76** is then adjusted to produce the desired size of the image to fill the screen. When these steps are followed in the order outlined, the brightest possible picture that completely fills the screen may be obtained.

DESIGNS

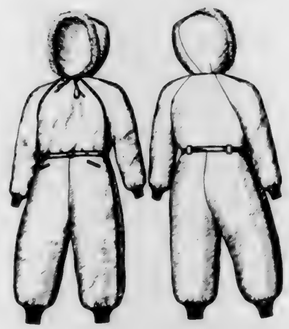
NOVEMBER 14, 1950

160,830
NECKTIE DISPLAY RACK OR SIMILAR ARTICLE
Morris Aron, South Norwalk, Conn.
Application November 2, 1949, Serial No. 5,834
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a necktie display rack or similar article, as shown.

160,831
CHILD'S HOODED SUIT
Joseph Astrove, New Rochelle, N. Y.
Application March 15, 1949, Serial No. 1,404
Term of patent 14 years
(Cl. D3—17)



The ornamental design for a child's hooded suit, substantially as shown.

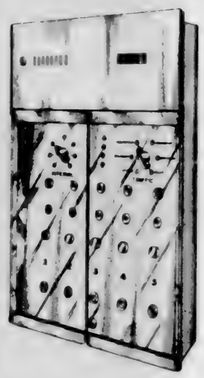
160,832
CLOCK OR SIMILAR ARTICLE
Jack Bergman, Pittsburgh, Pa.
Application June 11, 1949, Serial No. 3,210
Term of patent 3½ years
(Cl. D42—7)

The ornamental design for a clock or similar article, as shown and described.

160,833
DRESS OR SIMILAR ARTICLE
Oscar A. Berman, New York, N. Y.
Application October 31, 1949, Serial No. 5,801
Term of patent 14 years
(Cl. D3—26)

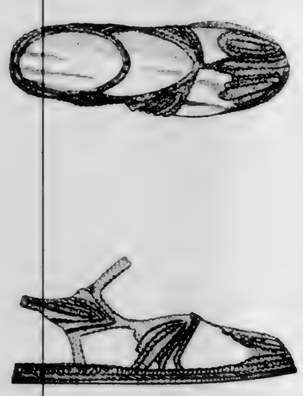
The ornamental design for a dress or similar article, as shown and described.

160,834
ELEVATOR STARTER'S PANEL
Morrison John Brounn, Flushing, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application October 14, 1949, Serial No. 5,495
Term of patent 14 years
(Cl. D26—5)



The ornamental design for an elevator starter's panel, substantially as shown.

160,835
SLIPPER
Maurice N. Brower, Leonia, N. J., assignor to Gustave, Inc., New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 7,956
Term of patent 3½ years
(Cl. D7—7)

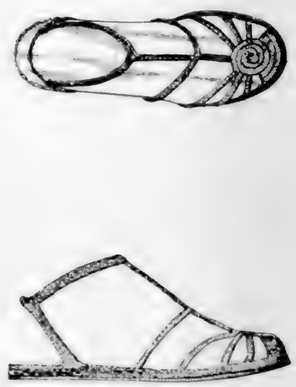


The ornamental design for a slipper, substantially as shown.

160,836
SLIPPER
Maurice N. Brower, Leonia, N. J., assignor to Gustave, Inc., New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 7,957
Term of patent 3½ years
(Cl. D7—7)

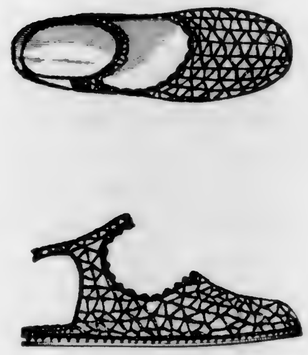
The ornamental design for a slipper, substantially as shown.

160,837
SLIPPER
Maurice N. Brower, Leonia, N. J., assignor to Gustave, Inc., New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 7,958
Term of patent 3½ years
(Cl. D7—7)



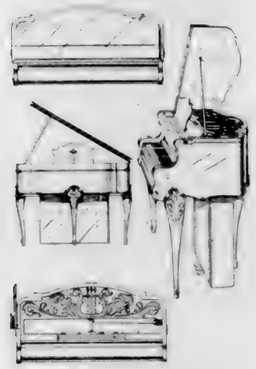
The ornamental design for a slipper, substantially as shown.

160,838
SLIPPER
Maurice N. Brower, Leonia, N. J., assignor to Gustave, Inc., New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 7,959
Term of patent 3½ years
(Cl. D7—7)



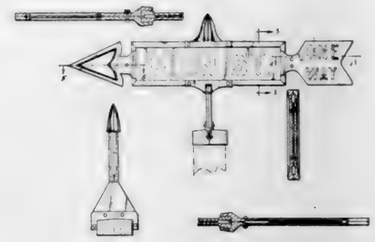
The ornamental design for a slipper, substantially as shown.

160,839
PIANO OR SIMILAR ARTICLE
Alexander P. Brown, Beechhurst, N. Y.
Application July 20, 1949, Serial No. 4,050
Term of patent 14 years
(Cl. D56—9)



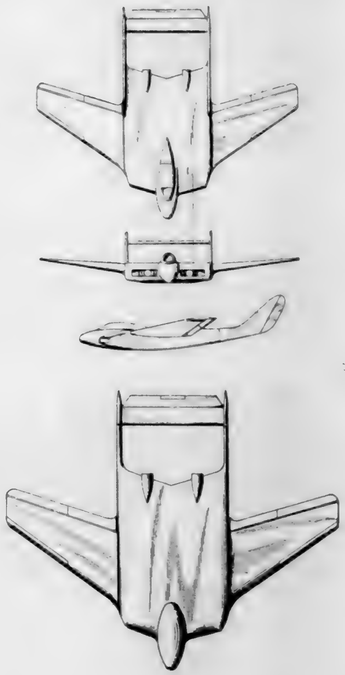
The ornamental design for a piano or similar article, substantially as shown.

160,840
STREET DIRECTIONAL SIGN
Myles J. Burke, Jersey City, N. J.
Application August 18, 1949, Serial No. 4,587
Term of patent 7 years
(Cl. D72—1)



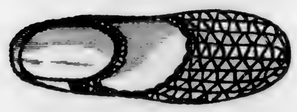
The ornamental design for a street directional sign, as shown and described.

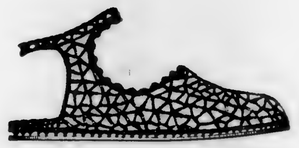
160,841
AIRPLANE
Vincent J. Burnelli, Great Neck, N. Y.
Application November 8, 1948, Serial No. 149,532
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, as shown.

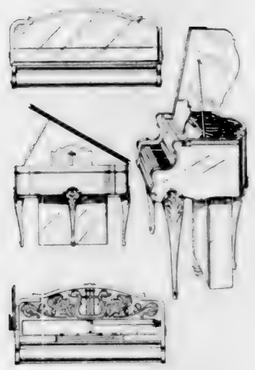
160,838
SLIPPER
Maurice N. Brower, Leonia, N. J., assignor to Gustave, Inc., New York, N. Y., a corporation of New York
Application February 16, 1950, Serial No. 7,959
Term of patent 3½ years
(Cl. D7—7)





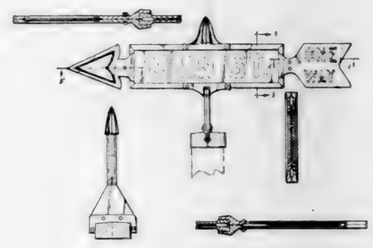
The ornamental design for a slipper, substantially as shown.

160,839
PIANO OR SIMILAR ARTICLE
Alexander P. Brown, Beechhurst, N. Y.
Application July 20, 1949, Serial No. 4,050
Term of patent 14 years
(Cl. D56—9)



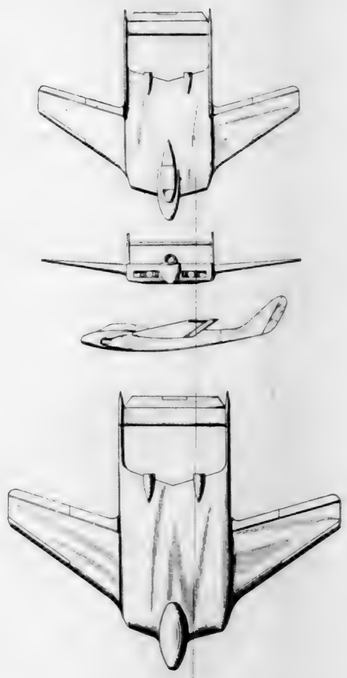
The ornamental design for a piano or similar article, substantially as shown.

160,840
STREET DIRECTIONAL SIGN
Myles J. Burke, Jersey City, N. J.
Application August 18, 1949, Serial No. 4,587
Term of patent 7 years
(Cl. D72—1)



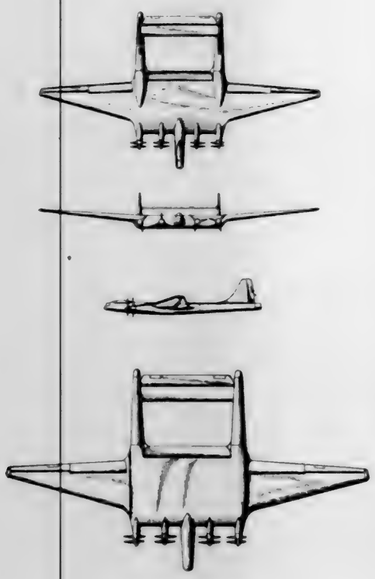
The ornamental design for a street directional sign, as shown and described.

160,841
AIRPLANE
Vincent J. Burnelli, Great Neck, N. Y.
Application November 8, 1948, Serial No. 149,532
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, as shown.

160,842
AIRPLANE
Vincent J. Burnelli, Great Neck, N. Y.
Application July 14, 1949, Serial No. 3,906
Term of patent 14 years
(Cl. D71—1)

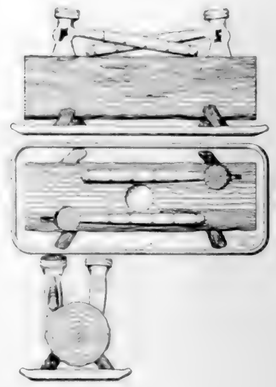


The ornamental design for an airplane, as shown.

160,843
TUMBLER
William Lloyd Cone, Dallas, Tex., assignor to Plastics Manufacturing Company, a corporation of Texas
Application August 23, 1949, Serial No. 4,668
Term of patent 3½ years
(Cl. D36—8)

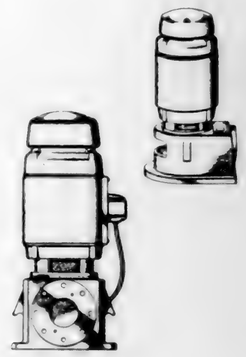
The ornamental design for a tumbler, as shown.

160,844
COMBINED TRAY, LOG, AND SALT AND PEPPER SHAKER
William E. Copeland, Kansas City, Kans.
Application September 23, 1949, Serial No. 5,141
Term of patent 3½ years
(Cl. D44—22)

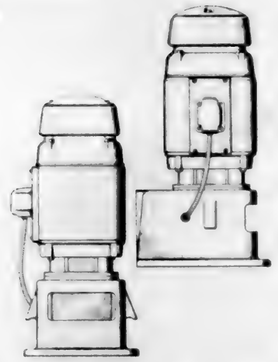


The ornamental design for a combined tray, log, and salt and pepper shaker, as shown.

160,845
PUMP AND MOTOR UNIT
Henry Dreyfuss, Pasadena, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application February 14, 1949, Serial No. 837
Term of patent 14 years
(Cl. D65—1)

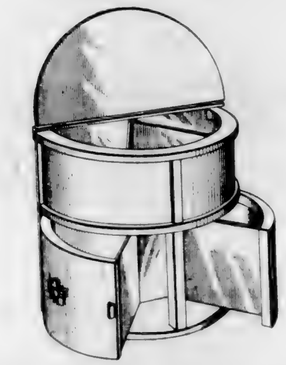


160,845—Continued



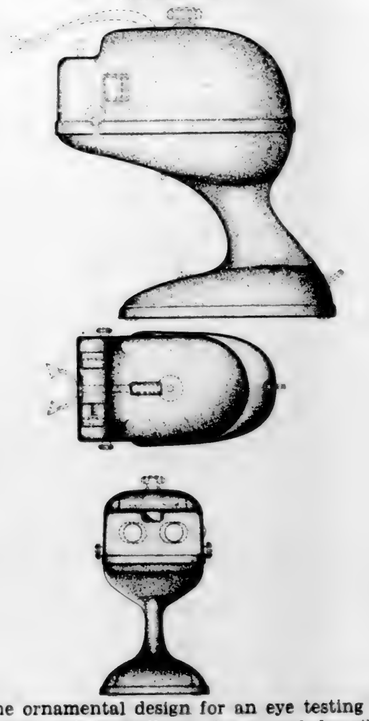
The ornamental design for a pump and motor unit, substantially as shown.

160,846
CANISTER UNIT
Lillian George Edmonson, Columbus, Miss.
Application January 23, 1950, Serial No. 7,405
Term of patent 14 years
(Cl. D44—6)



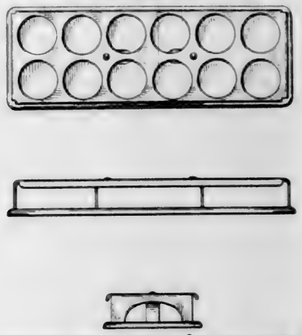
The ornamental design for a canister unit, as shown.

160,847
EYE TESTING INSTRUMENT
Charles A. Ellis, Worcester, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application January 10, 1950, Serial No. 7,134
Term of patent 14 years
(Cl. D57—1)



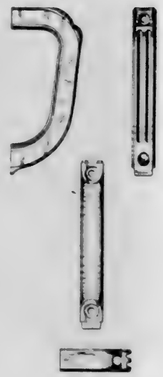
The ornamental design for an eye testing instrument, substantially as shown and described.

160,848
EGG TRAY
Sophie B. Ernster, Los Angeles, Calif.
Application February 2, 1948, Serial No. 144,210
Term of patent 3½ years
(Cl. D44—10)



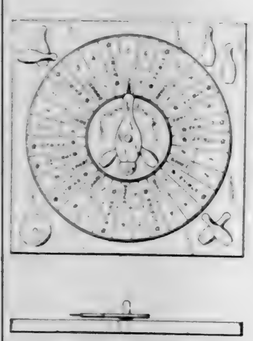
The ornamental design for an egg tray, as shown.

160,849
HANDLE FOR COFFEE MAKERS
Hoyt Keith Foster, Hollis, N. Y., assignor to S. W. Farber Inc., New York, N. Y., a corporation of New York
Application March 1, 1950, Serial No. 8,228
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a handle for coffee makers, as shown.

160,850
BOWLING GAME BOARD
Edward J. Francis, Paterson, N. J.
Application May 31, 1950, Serial No. 10,280
Term of patent 14 years
(Cl. D34—5)

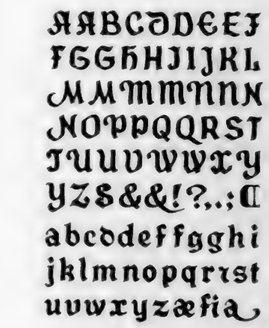


The ornamental design for a bowling game board, substantially as shown.

160,851
CHAIN SAW
William L. Gillespie, Seattle, Wash.
Application September 28, 1949, Serial No. 5,203
Term of patent 14 years
(Cl. D93—3)

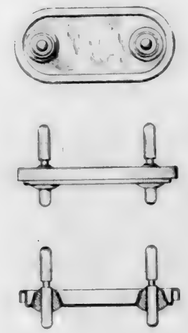
The ornamental design for a chain saw, as shown.

160,852
PRINTING TYPE FONT
Anatol Girs, Detroit, Mich.
Application August 31, 1950, Serial No. 12,011
Term of patent 14 years
(Cl. D64—12)



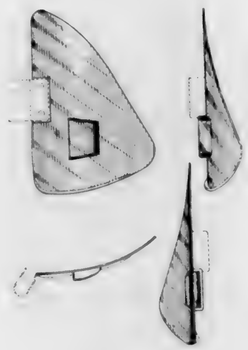
The ornamental design for a printing type font, as shown.

160,853
METAL GLASS SEAL OR SIMILAR ARTICLE
Mannes N. Glickman and Michael Klebanoff, Nutley, N. J.
Application October 25, 1949, Serial No. 5,696
Term of patent 14 years
(Cl. D26—8)



The ornamental design for a metal glass seal or similar article, as shown.

160,854
WIND DEFLECTOR
Lee M. Goldstine, Chicago, Ill., and Leonard A. Hunting, Independence, Mo.; said Hunting assignor to said Goldstine
Application April 13, 1950, Serial No. 9,171
Term of patent 14 years
(Cl. D14—6)

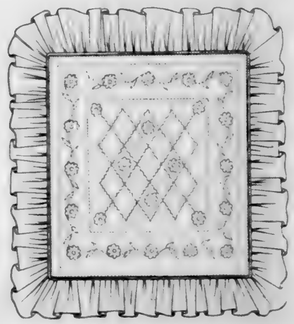


The ornamental design for a wind deflector, substantially as shown, and described.

160,855
WIND DEFLECTOR
Lee M. Goldstine, Chicago, Ill., and Leonard A. Hunting, Independence, Mo.; said Hunting assignor to said Goldstine
Application April 13, 1950, Serial No. 9,172
Term of patent 14 years
(Cl. D14—6)

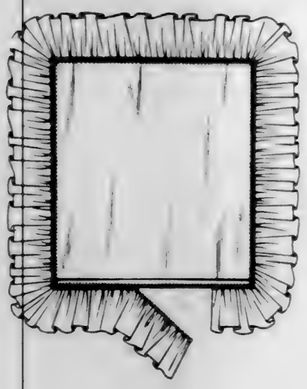
The ornamental design for a wind deflector, substantially as shown, and described.

160,856
BEDSPREAD COVER OR SIMILAR ARTICLE FOR ELECTRICALLY HEATED BLANKETS
Joseph Goodstein, New York, N. Y.
Application April 25, 1950, Serial No. 9,458
Term of patent 7 years
(Cl. D92—2)



The ornamental design for a bedspread cover or similar article for electrically heated blankets, substantially as shown.

160,856—Continued

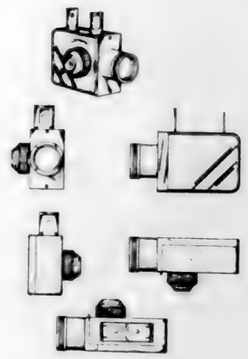


The ornamental design for a bedspread cover or similar article for electrically heated blankets, substantially as shown.

160,857
BLOUSE OR SIMILAR ARTICLE
Max Gordon, New York, N. Y.
Application March 1, 1949, Serial No. 1,142
Term of patent 3½ years
(Cl. D3—25)

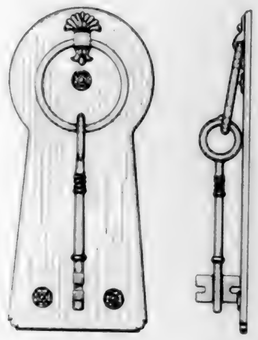
The ornamental design for a blouse or similar article, as shown and described.

160,858
CAMERA
Donald E. Grove, Los Angeles, Calif.
Application January 7, 1950, Serial No. 7,084
Term of patent 3½ years
(Cl. D61—1)



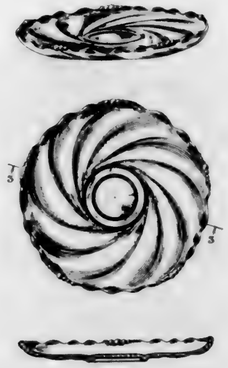
The ornamental design for a camera, substantially as shown.

160,859
DOOR KNOCKER
Samuel K. Harker, West Lafayette, Ind.
Application August 2, 1949, Serial No. 4,254
Term of patent 14 years
(Cl. D10—7)



The ornamental design for a door knocker, as shown and described.

160,860
GLASS PLATE OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio
Application December 9, 1948, Serial No. 150,057
Term of patent 14 years
(Cl. D36—2)

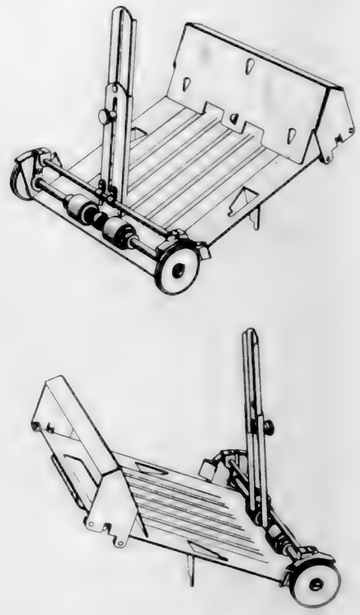


The ornamental design for a glass plate or article of similar nature, substantially as shown.

160,861
EXPANSIBLE BRACELET
Morris Horovitz, Providence, R. I.
Application January 27, 1950, Serial No. 7,522
Term of patent 7 years
(Cl. D45—4)

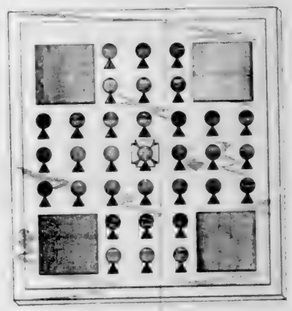
The ornamental design for an expansible bracelet, substantially as shown and described.

160,862
AUTOMATIC SHEET FEEDING APPARATUS
Elmer L. Johnson, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application June 18, 1949, Serial No. 3,402
Term of patent 14 years
(Cl. D64—11)



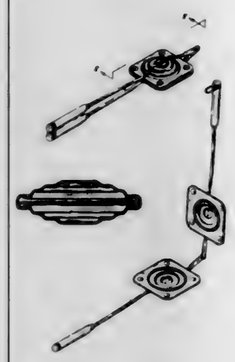
The ornamental design for an automatic sheet feeding apparatus, as shown.

160,863
GAME BOARD
Lewis J. Kalvig, Hackensack, Minn.
Application August 29, 1949, Serial No. 4,740
Term of patent 14 years
(Cl. D34—5)



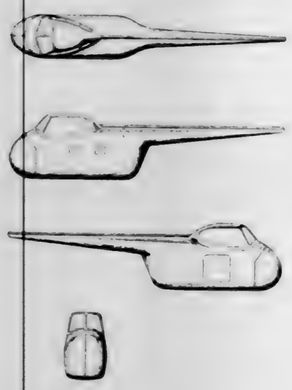
The ornamental design for a game board, as shown.

160,864
COOKING UTENSIL OR SIMILAR ARTICLE
Morris Kaplowitz and Max Hirsch, New York, N. Y., assignors to Federal Manufacturing & Engineering Corp., a corporation of New York
Application September 29, 1949, Serial No. 5,226
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a cooking utensil or similar article, substantially as shown and described.

160,865
BODY FOR A HELICOPTER
Edward F. Katzenberger, Bridgeport, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 28, 1949, Serial No. 2,928
Term of patent 7 years
(Cl. D71—1)

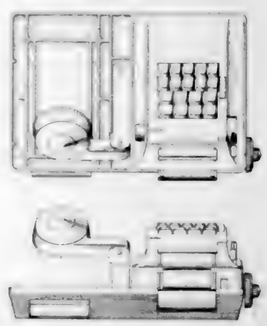


The ornamental design for a body for a helicopter, as shown.

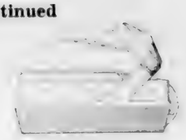
160,866
SHINGLE
Everett J. Kellogg, Columbus, Ohio, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio, a corporation of the United States
Application September 9, 1948, Serial No. 148,516
Term of patent 3½ years
(Cl. D68—1)

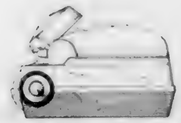
The ornamental design for a shingle, substantially as shown.

160,867
AUTOMATIC TELEPHONE DIALER
James Kilburg, Burlingame, Calif., assignor to James Kilburg Corporation, San Mateo, Calif., a corporation of California
Application July 26, 1949, Serial No. 4,149
Term of patent 14 years
(Cl. D26—14)



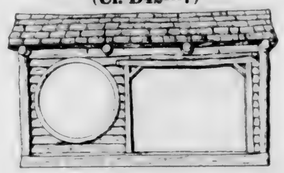
160,867—Continued





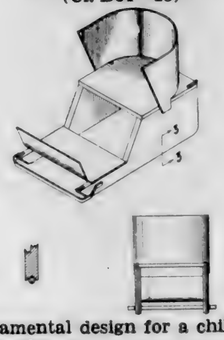
The ornamental design for an automatic telephone dialer, as shown.

160,868
CLOCK CASE
Alan E. Koplar, Chicago, Ill.
Application January 28, 1950, Serial No. 7,543
Term of patent 14 years
(Cl. D42—7)



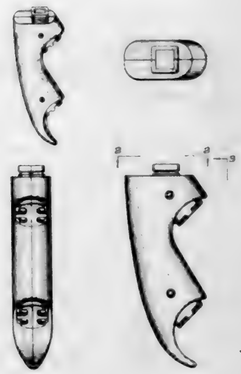
The ornamental design for a clock case, as shown.

160,869
CHILD'S SLED
Zygmunt Kubiak, Cleveland, Ohio
Application May 26, 1949, Serial No. 2,900
Term of patent 14 years
(Cl. D34—15)



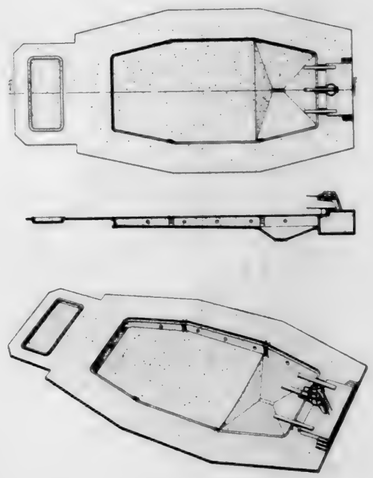
The ornamental design for a child's sled, substantially as shown.

160,870
FLUORESCENT LAMP HOLDER
David Lane, Philadelphia, Pa., assignor to Progress Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application April 8, 1950, Serial No. 9,068
Term of patent 14 years
(Cl. D48—23)



The ornamental design for a fluorescent lamp holder, substantially as shown.

160,871
SWIMMING POOL
Kenneth H. Larkin, Kansas City, Mo.
Application October 22, 1949, Serial No. 5,655
Term of patent 14 years
(Cl. D4—4)



The ornamental design for a swimming pool, substantially as shown.

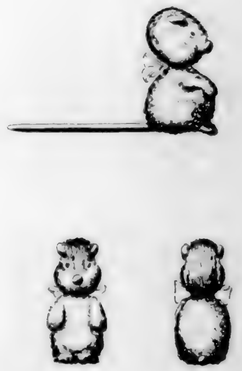
160,872
HOLLYWOOD BED BACK
Forrest E. Madduz, Sr., Cincinnati, Ohio, assignor to Wessel Bedding Company, Cincinnati, Ohio, a corporation of Ohio
Application October 8, 1949, Serial No. 5,386
Term of patent 7 years
(Cl. D5—2)

The ornamental design for a Hollywood bed back, substantially as shown.

160,873
PRIE-DIEU
America T. Maguolo, St. Louis, Mo.
Application March 28, 1949, Serial No. 1,680
Term of patent 14 years
(Cl. D29—23)

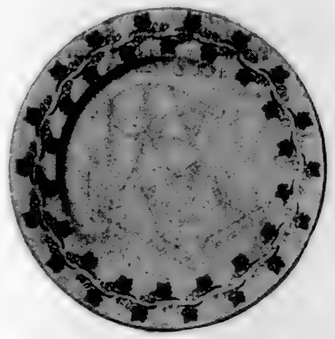
The ornamental design for a prie-dieu, as shown and described.

160,874
TOY ANIMAL FIGURE
Ann N. Marshall, Taos, N. Mex.
Application June 10, 1949, Serial No. 3,200
Term of patent 3½ years
(Cl. D34—2)



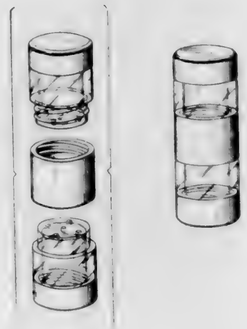
The ornamental design for a toy animal figure, as shown and described.

160,875
DINNER PLATE OR SIMILAR ARTICLE
Charles H. McKaig, Camillus, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 28, 1949, Serial No. 6,896
Term of patent 14 years
(Cl. D44—15)



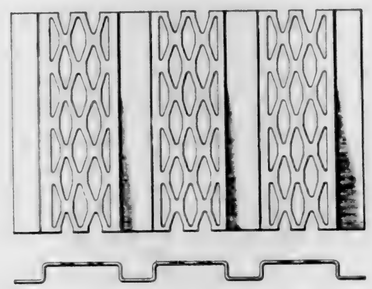
The ornamental design for a dinner plate or similar article, as shown and described.

160,876
CONDIMENT CONTAINER OR SIMILAR ARTICLE
Phillip J. Mesi, Chicago, Ill., assignor to Tote-brush, Inc., Chicago, Ill., a corporation of Illinois
Application April 27, 1950, Serial No. 9,520
Term of patent 7 years
(Cl. D44—22)



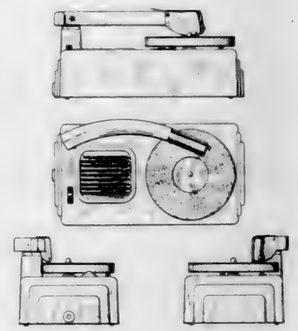
The ornamental design for a condiment container or similar article, substantially as shown.

160,877
EXPANDED METAL PANEL
Charles L. Moorman, Millington, Ill.
Application May 7, 1948, Serial No. 146,214
Term of patent 14 years
(Cl. D54—2)



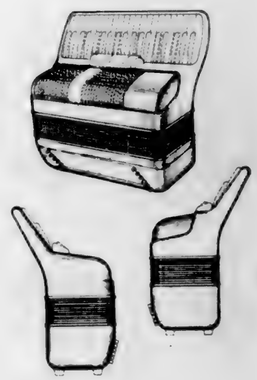
The ornamental design for an expanded metal panel, as shown.

160,878
RECORD PLAYER
Otto Rudolph Nemeth, Los Angeles, Calif.
Application January 17, 1950, Serial No. 7,293
Term of patent 7 years
(Cl. D56—4)



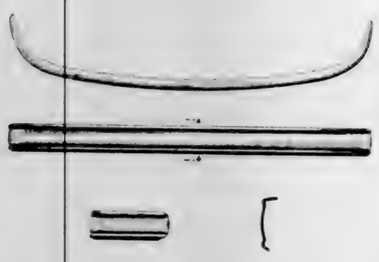
The ornamental design for a record player, as shown.

160,879
ACCORDION
Donald E. Noble, Chicago, Ill.
Application June 11, 1949, Serial No. 3,209
Term of patent 14 years
(Cl. D56—1)



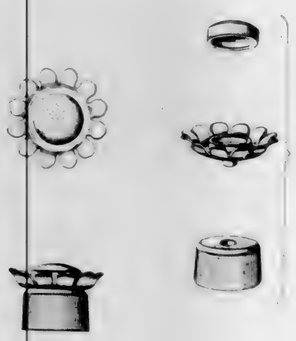
The ornamental design for an accordion, as shown and described.

160,880
AUTOMOBILE BUMPER
Milo J. O'Leary, Rochester, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 13, 1949, Serial No. 4,462
Term of patent 7 years
(Cl. D14—6)



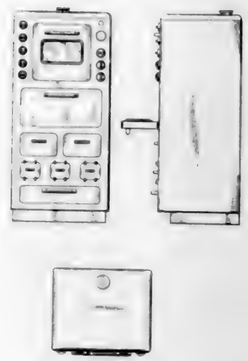
The ornamental design for an automobile bumper, substantially as shown.

160,881
BOTTLE CAP
Arnold Perlman, Greenwich, Conn., assignor to Helene Hessl, Inc., New York, N. Y., a corporation of New York
Application March 14, 1950, Serial No. 8,510
Term of patent 7 years
(Cl. D58—26)



The ornamental design for a bottle cap, substantially as shown and described.

160,882
ELECTRIC RANGE
Charles A. Pierson, Maumee, Ohio
Application April 30, 1948, Serial No. 146,069
Term of patent 14 years
(Cl. D81—4)

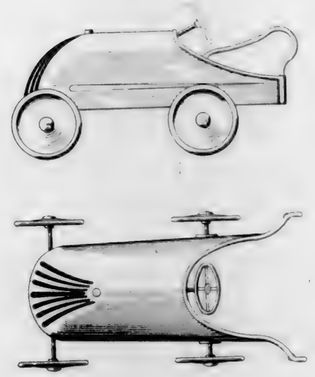


The ornamental design for an electric range, substantially as shown and described.

160,883
SHIRT OR THE LIKE
Dora A. Pope, Atwood, Colo.
Application October 27, 1948, Serial No. 149,327
Term of patent 7 years
(Cl. D3—25)

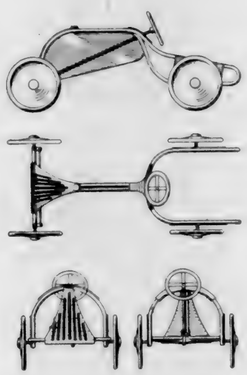
The ornamental design for a shirt or the like, as shown.

160,884
CHILD'S WALKING AUTOMOBILE
La Von I. Powell, Denver, Colo.
Application October 20, 1949, Serial No. 5,584
Term of patent 7 years
(Cl. D34—15)



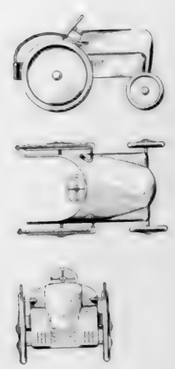
The ornamental design for a child's walking automobile, as shown.

160,885
CHILD'S VEHICLE
La Von I. Powell, Denver, Colo.
Application October 20, 1949, Serial No. 5,585
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a child's vehicle, as shown.

160,886
CHILD'S WALKING TRACTOR
La Von I. Powell, Denver, Colo.
Application October 20, 1949, Serial No. 5,586
Term of patent 7 years
(Cl. D34—15)

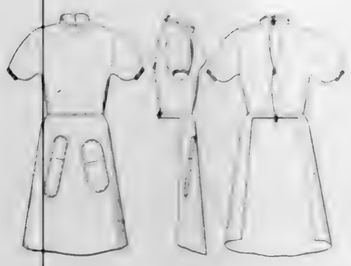


The ornamental design for a child's walking tractor, as shown.

160,887
CHILD'S WALKING TRICYCLE
La Von I. Powell, Denver, Colo.
Application October 20, 1949, Serial No. 5,769
Term of patent 14 years
(Cl. D34—15)

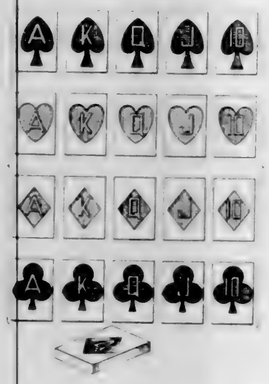
The ornamental design for a child's walking tricycle, as shown.

160,888
PROTECTIVE APRON
Elda E. Purdon, Detroit, Mich.
Application October 27, 1949, Serial No. 5,740
Term of patent 3½ years
(Cl. D3—26)



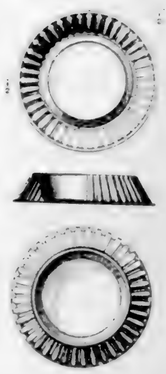
The ornamental design for a protective apron, substantially as shown.

160,889
SET OF BRIDGE PLAYING GAME TABLETS
Arthur L. Redden, Vallejo, Calif.
Application April 11, 1949, Serial No. 1,894
Term of patent 14 years
(Cl. D34—5)



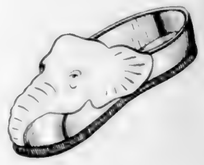
The ornamental design for a set of bridge playing game tablets, as shown and described.

160,890
RECEPTACLE FOR RODENT POISON
James D. Reifsnyder, Flushing, and Sixten I. Johnson, College Point, N. Y., assignors to Lily-Tulip Cup Corporation, New York, N. Y., a corporation of Delaware
Application April 14, 1949, Serial No. 1,990
Term of patent 14 years
(Cl. D31—4)



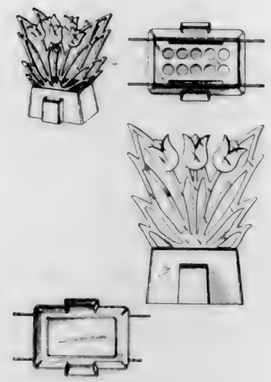
The ornamental design for a receptacle for rodent poison, substantially as shown.

160,891
CHILD'S SLIPPER
Curt A. Renz, Chicago, Ill.
Application January 6, 1947, Serial No. 135,959
Term of patent 3½ years
(Cl. D7—7)



The ornamental design for a child's slipper, substantially as shown and described.

160,892
FLOWER HOLDER OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products Inc., Columbus, Ohio, a corporation of Ohio
Application July 25, 1949, Serial No. 4,118
Term of patent 14 years
(Cl. D35—3)

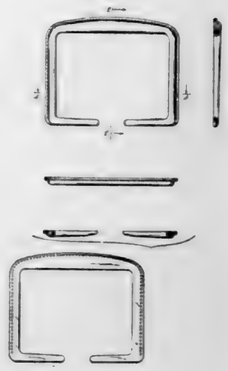


The ornamental design for a flower holder or similar article, substantially as shown.

160,893
WATCH BRACELET
John F. Sand, Newark, N. J., assignor to Gemex Company, Union, N. J., a corporation of New Jersey
Application May 18, 1949, Serial No. 2,720
Term of patent 7 years
(Cl. D45—4)

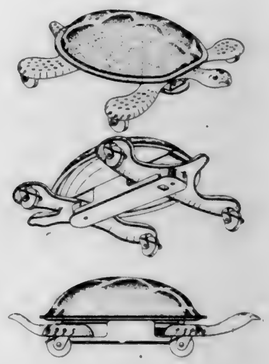
The ornamental design for a watch bracelet, as shown and described.

160,894
HANDLE FOR A BRIEF CASE OR SIMILAR ARTICLE
Harold Schneider, New Bedford, Mass.
Application May 10, 1950, Serial No. 9,852
Term of patent 14 years
(Cl. D87—2)



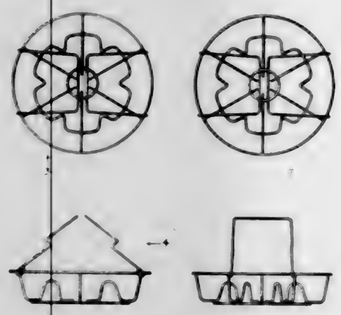
The ornamental design for a handle for a brief case or similar article, as shown.

160,895
WHEELED TOY TORTOISE
Harry Sebel, London, England
Application November 12, 1948, Serial No. 149,605
Term of patent 14 years
(Cl. D34—2)



The ornamental design for a wheeled toy tortoise, as shown.

160,896
CARRIER-RACK FOR FRUIT JARS OR THE LIKE
Earl F. Smith, Muncie, Ind., assignor to Midwest Metal Products Company, Muncie, Ind., a corporation of Indiana
Application December 27, 1949, Serial No. 6,858
Term of patent 14 years
(Cl. D58—5)



The ornamental design for a carrier-rack for fruit jars or the like, as shown.

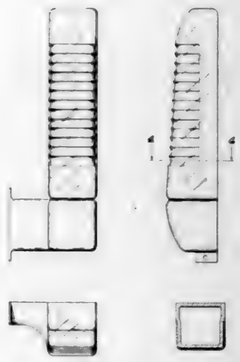
160,897
SUN SHIELD OR SIMILAR ARTICLE
Ivan Sors and Aladar Abrahamson, New York, N. Y.
Application July 11, 1949, Serial No. 3,832
Term of patent 3½ years
(Cl. D57—1)

The ornamental design for a sun shield or similar article, as shown and described.

160,898
ACCORDION
Joseph G. Stancato, Seattle, Wash.
Application January 19, 1948, Serial No. 143,871
Term of patent 14 years
(Cl. D56—1)

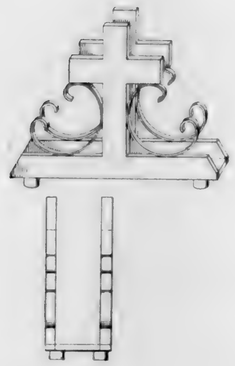
The ornamental design for an accordion, as shown and described.

160,899
WALL BRACKET LAMP
Clifford Brooks Stevens, Milwaukee, Wis., assignor to Moe Brothers Manufacturing Company, Fort Atkinson, Wis., a corporation of Wisconsin
Application January 25, 1950, Serial No. 7,458
Term of patent 14 years
(Cl. D48—4)



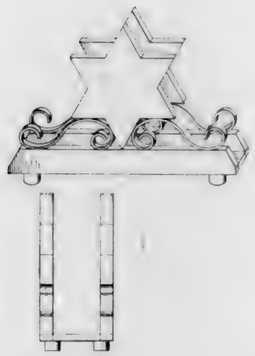
The ornamental design for a wall bracket lamp, as shown.

160,900
BOOKSTAND FOR BIBLE OR SIMILAR ARTICLE
Mary C. Suhren, Teaneck, N. J.
Application August 26, 1949, Serial No. 4,714
Term of patent 14 years
(Cl. D33—2)



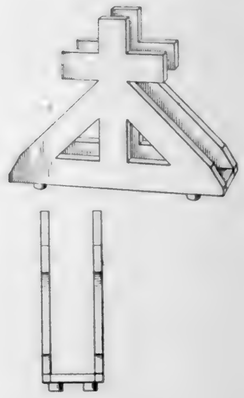
The ornamental design for a bookstand for Bible or similar article, as shown.

160,901
BOOKSTAND FOR BIBLE OR SIMILAR ARTICLE
Mary C. Suhren, Teaneck, N. J.
Application August 30, 1949, Serial No. 4,770
Term of patent 14 years
(Cl. D33—2)



The ornamental design for a bookstand for Bible or similar article, as shown.

160,902
BOOKSTAND FOR BIBLE OR SIMILAR ARTICLE
Mary C. Suhren, Teaneck, N. J.
Application December 21, 1949, Serial No. 6,762
Term of patent 14 years
(Cl. D33—2)

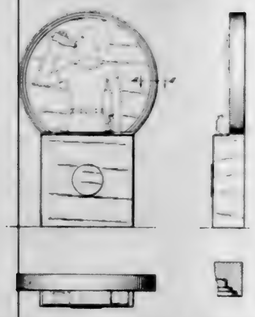


The ornamental design for a bookstand for Bible or similar article, as shown.

160,903
BOOKSTAND FOR BIBLE OR SIMILAR ARTICLE
Mary C. Suhren, Teaneck, N. J.
Application December 21, 1949, Serial No. 6,763
Term of patent 14 years
(Cl. D33—2)

The ornamental design for a bookstand for Bible or similar article, as shown.

160,904
DISPLAY DEVICE
Lyndall L. Sutherland, Peoria, Ill.
Application May 26, 1950, Serial No. 10,209
Term of patent 7 years
(Cl. D1—2)

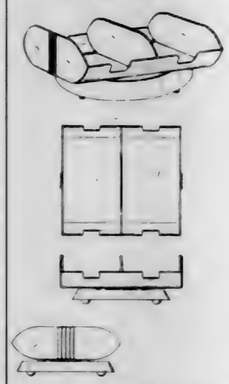


The ornamental design for a display device, as shown and described.

160,905
COMBINED BOWLER'S ROUGHENER AND SHOEHORN
William R. Tarrant, Indianapolis, Ind., assignor of one-half to John Korinek, Indianapolis, Ind.
Application June 12, 1948, Serial No. 146,931
Term of patent 7 years
(Cl. D34—5)

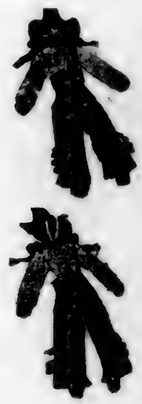
The ornamental design for a combined bowler's roughener and shoehorn, as shown.

160,906
HOLDER FOR PLAYING CARDS
Leo Ungar, University City, Mo.
Application October 15, 1949, Serial No. 5,507
Term of patent 3½ years
(Cl. D34—13)



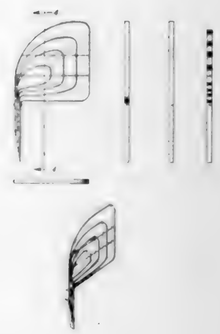
The ornamental design for a holder for playing cards, substantially as shown.

160,907
SEWING ACCESSORY DOLL
Consuelo Paernio Walsh, Spring Valley, N. Y.
Application December 9, 1949, Serial No. 6,516
Term of patent 3½ years
(Cl. D3—20)



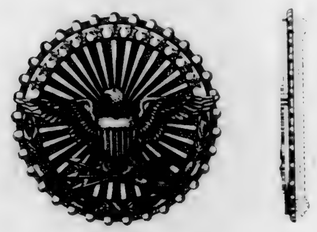
The ornamental design for a sewing accessory doll, substantially as shown.

160,908
LAWN GUIDE
George P. Wiedman, North Tonawanda, N. Y.
Application January 27, 1949, Serial No. 529
Term of patent 7 years
(Cl. D28—1)



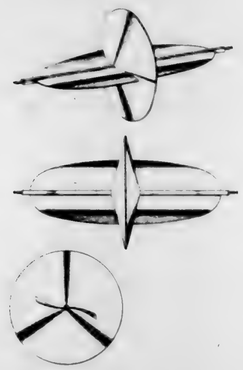
The ornamental design for a lawn guide, substantially as shown.

160,909
BADGE OR SIMILAR ARTICLE
Elizabeth Will and Arthur E. Du Bois, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army
Application March 16, 1950, Serial No. 8,548
Term of patent 14 years
(Cl. D29—2)



The ornamental design for a badge or similar article, as shown and described.

160,910
KITE
Claude L. Wolford, Los Angeles, Calif.
Application July 19, 1949, Serial No. 3,991
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a kite, as shown.

160,911
COMBINATION ASH TRAY, GLASS AND BOTTLE HOLDER
Louis A. Yereb, St. Louis, Mo.
Application November 7, 1949, Serial No. 5,910
Term of patent 7 years
(Cl. D85—2)

The ornamental design for a combination ash tray, glass and bottle holder, as shown.

160,912
TEAKETTLE
Manuel S. Ziskin, University Heights, and Ralph B. Billig, Erieside, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application February 1, 1949, Serial No. 602
Term of patent 14 years
(Cl. D44—25)

The ornamental design for a teakettle, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. B. C. Publications, Inc., New York, N. Y. Publication. Serial No. 564,087, Nov. 14. Class 38.

Adpix: *See*—
Payson, George M.

Advance Machine Co., Chicago, Ill. Vending machines. Serial No. 578,671, Nov. 14. Class 23.

Aeration Processes, Inc., Columbus, Ohio. Empty refillable valved pressure containers. Serial No. 509,124, Nov. 14. Class 2.

Aeroquip Corporation, Jackson, Mich. Hose. Serial No. 595,698, Nov. 14. Class 35.

Aircraft-Marine Products Inc., Harrisburg, Pa. Self-aligning terminal stop for use with crimping tools. Serial No. 577,768, Nov. 14. Class 23.

Albany Felt Company, North Albany, N. Y. Yarn. Serial No. 594,187, Nov. 14. Class 43.

Ald, Inc., Chicago, Ill. Laundry driers. Serial No. 576,245, Nov. 14. Class 24.

Allen, Raleigh, New York, N. Y. Rubber slabs and rubber mats. Serial No. 590,298, Nov. 14. Class 50.

Allied Chemical & Dye Corporation, New York, N. Y. Composition shingles. Serial No. 573,109, Nov. 14. Class 12.

All-State Garment Corporation, New York, N. Y. Women's suits. Serial No. 595,526, Nov. 14. Class 39.

American Bank Note Company, New York, N. Y. Services in the graphic arts. Serial No. 585,626, Nov. 14. Class 101.

American Brake Shoe Company, New York, N. Y. Rubber fan belts, radiator hose, and generator couplings. Serial No. 547,216, Nov. 14. Class 35.

American Chemical Paint Company, Ambler, Pa. House organ. Serial No. 568,703, Nov. 14. Class 38.

American Furniture Company: *See*—
Superior Sleeprite Corporation.

American Hard Rubber Company, Butler, N. J., New York, N. Y., and elsewhere. Hair combs. Serial No. 546,452, Nov. 14. Class 40.

American Latex Products Corp., Los Angeles, Calif. Office chair cushions. Serial No. 563,837, Nov. 14. Class 32.

American Metal Specialties Corporation: *See*—
American Metal Specialties Corp.

American Metal Specialties Corp., also known as American Metal Specialties Corporation, Hatboro, Pa. Children's sand boxes and play pools, etc. Serial No. 590,926, Nov. 14. Class 22.

American Oil Company, The, Baltimore, Md. Industrial grease. Serial No. 592,464, Nov. 14. Class 15.

American Stores Company, Philadelphia, Pa. Canned peaches and canned apricots. Serial No. 589,700, Nov. 14. Class 46.

American Stores Company, Philadelphia, Pa. Mayonnaise, salad dressing and jellies. Serial No. 589,701, Nov. 14. Class 46.

American Tractor Corporation, New York, N. Y. Tractors. Serial No. 589,061, Nov. 14. Class 23.

Angier Chemical Company, assignor, by mesne assignments, to Angier Chemical Co., Inc., Boston, Mass. Therapeutic agent. Serial No. 591,763, Nov. 14. Class 18.

Angier Chemical Co., Inc.: *See*—
Angier Chemical Company.

Apex Electrical Manufacturing Company, The, Cleveland, Ohio. Clothes washing machines and parts thereof, and ironing machines and parts thereof. Serial No. 545,934, Nov. 14. Class 24.

Armour and Company, Chicago, Ill. Hams and bacon. Serial No. 540,141, Nov. 14. Class 46.

Associated Brands, Inc., Brooklyn, N. Y. Liquid shaving cream. Serial No. 575,564, Nov. 14. Class 51.

Associated Merchandising Corporation, The, New York, N. Y. Infants' wear items. Serial No. 566,914, Nov. 14. Class 39.

Atlantic Products Corporation, Trenton, N. J. Hand-bags. Serial No. 597,488, Nov. 14. Class 3.

Autol Incorporated, New York, N. Y. Lubricating oil and greases and hydraulic brake oil. Serial No. 561,287, Nov. 14. Class 15.

AVCO Manufacturing Corporation, Cincinnati, Ohio. Radio receiving sets and television receiving sets. Serial No. 585,740, Nov. 14. Class 21.

Bancroft, Joseph, & Sons Company, Wilmington, Del. Dyed and printed fabrics in the piece. Serial No. 578,861, Nov. 14. Class 42.

Bard, Rubina P., Pasadena, Calif. Women's and children's dresses, suits, coats, blouses, etc. Serial No. 571,787, Nov. 14. Class 39.

Bay State Optical Company, Attleboro, Mass. Chemically treated cloths for use on lenses. Serial No. 563,715, Nov. 14. Class 29.

Becton, Dickinson, and Company, East Rutherford, N. J. Clinical thermometers, hypodermic syringes, hypodermic needles, etc. Serial No. 583,334, Nov. 14. Class 44.

Belk's Buying Service, Incorporated, Charlotte, N. C. Blankets. Serial No. 556,548, Nov. 14. Class 42.

Bell-Savage Co., Minneapolis, Minn. Restraining garments. Serial No. 576,739, Nov. 14. Class 40.

Bell & Zoller Coal Company, Chicago, Ill. Coal. Serial No. 590,415, Nov. 14. Class 1.

Benjamin Electric Manufacturing Company, Des Plaines, Ill. Reflectors for electric lamps. Serial No. 576,105, Nov. 14. Class 21.

Bergman, Edward L., doing business as Party Top Co., Los Angeles, Calif. Removable tops adapted to be detachably mounted on tables, etc. Serial No. 562,603, Nov. 14. Class 32.

Bird & Son, inc., East Walpole, Mass. Asphalt saturated felt base floor covering. Serial No. 597,936, Nov. 14. Class 20.

Blons, M. J., and Company: *See*—
Blons, Maurice J.

Blons, Maurice J., doing business as M. J. Blons and Company, Chicago, Ill. Ultra violet germicidal lamps. Serial No. 582,017, Nov. 14. Class 21.

Blue-Simon Corporation, New York, N. Y. Rayon fabric. Serial No. 583,585, Nov. 14. Class 42.

Bogbosian, Haig A., doing business under the name Twin Shoe Company, Brockton, Mass. Leather shoes. Serial No. 596,477, Nov. 14. Class 39.

Book Agents of The Methodist Episcopal Church, South, Nashville, Tenn. Periodical publications and for publications issued from time to time. Serial No. 569,741, Nov. 14. Class 38.

Botany Mills, Inc., Passaic, N. J. Cosmetic base. Serial No. 586,587, Nov. 14. Class 51.

Bradner Smith & Company, Chicago, Ill. Bond paper. Serial No. 555,863, Nov. 14. Class 37.

Bray, Fred W., Buffalo, N. Y. Live baby chickens. Serial No. 555,593, Nov. 14. Class 1.

Breck, John H., Inc., Springfield, Mass. Hair shampoo cream. Serial No. 564,709, Nov. 14. Class 52.

Briddell, Chas. D., Inc., Crisfield, Md. Machetes. Serial No. 579,529, Nov. 14. Class 23.

Bridge Tables and Novelties, Inc., Lowell, Mass. Coffee tables, bridge tables, utility tables, etc. Serial No. 584,384, Nov. 14. Class 32.

Bruce, Robert, Knitwear Company, Philadelphia, Pa. Bathing suits. Serial No. 564,928, Nov. 14. Class 39.

Bruce, Robert, Knitwear Company, Philadelphia, Pa. Sweaters for men, boys and juveniles. Serial No. 565,169, Nov. 14. Class 39.

Bruce, Robert, Knitwear Company, Philadelphia, Pa. Sweaters for men, boys, and juveniles. Serial No. 565,538, Nov. 14. Class 39.

Bruce, Robert, Knitwear Company, Philadelphia, Pa. Sweaters for men, boys, and juveniles. Serial No. 565,686, Nov. 14. Class 39.

Butler Manufacturing Company, Kansas City, Mo. Truck tank and trailer tank vehicles. Serial No. 586,341, Nov. 14. Class 19.

California Fruit Growers Exchange, Los Angeles, Calif. Hand-operated mechanical lemon sectionizers. Serial No. 583,792, Nov. 14. Class 23.

Calo Company, Massapequa, N. Y. Curl clips. Serial No. 591,831, Nov. 14. Class 40.

Central Ohio Steel Products Company, doing business as The Galion Allsteel Body Company, Galion, Ohio. Hydraulically operated dump bodies and hoists. Serial No. 526,880, Nov. 14. Class 23.

Chambersburg Engineering Company, Chambersburg, Pa. Power hammers. Serial No. 566,969, Nov. 14. Class 23.

Charia Corporation, Allentown, Pa. Foam rubber bust pads. Serial No. 591,832, Nov. 14. Class 40.

Chatham Manufacturing Company, Elkin, N. C. Blankets. Serial No. 567,953, Nov. 14. Class 42.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Sensitized photographic material. Serial No. 594,309, Nov. 14. Class 26.

Chemical Paper Manufacturing Company, Holyoke, Mass. Writing and printing paper. Serial No. 533,995, Nov. 14. Class 37.

Clarke, Eric G., doing business as Eric G. Clarke and Company, Portland, Oreg. Word building game. Serial No. 579,804, Nov. 14. Class 22.

Clarke, Eric G., and Company: *See*—
Clarke, Eric G.

Clifford and Gore, Inc., West Chester, Pa. Vegetable juice. Serial No. 576,312, Nov. 14. Class 46.

Cloverdale Spring Company: *See*—
Cloverdale Spring Company, The.

Cloverdale Spring Company, The, also known as Cloverdale Spring Company, Baltimore, Md. Maltless soft drinks and flavoring materials. Serial No. 591,355, Nov. 14. Class 45.

Cluett, Peabody & Co. Inc., Troy, N. Y. Negligee and dress shirts. Serial No. 587,852, Nov. 14. Class 39.

Coat Conformers, Inc., New York, N. Y. Garment hangers. Serial No. 588,427, Nov. 14. Class 50.

Colonial Knife Company, Inc., Providence, R. I. Pocket knives. Serial No. 556,417, Nov. 14. Class 23.

Colorado Stick Quick Sales: *See*—
Wetherbee, Theodore.

Commercial Shirt Corp., New York, N. Y. Outer shirts and collars for men and boys. Serial No. 560,988, Nov. 14. Class 39.

Compania Maritima Pesquera S. A., Lima, Peru. Fresh canned, salted, pickled, and frozen fish. Serial No. 563,059, Nov. 14. Class 46.

Complete Service Publishing Company, Chicago, Ill. Magazine. Serial No. 541,814, Nov. 14. Class 38.

Consolidated Cosmetics, Chicago, Ill. Lipstick, face powder, perfume, and brilliantine. Serial No. 586,684, Nov. 14. Class 51.

Consolidated Foods, Inc., Nashua, N. H., by change of name from Philip Porter, Inc. Canned fruits; canned vegetables; fruit and vegetable juices; etc. Serial No. 527,505, Nov. 14. Class 46.

Coty, Inc., New York, N. Y. Perfume, toilet water, cologne. Serial No. 573,531, Nov. 14. Class 51.

Creamette Company, The, Minneapolis, Minn. Macaroni. Serial No. 554,863, Nov. 14. Class 46.

Creamola Food Products, Ltd., Glasgow, Scotland. Desserts. Serial No. 567,188, Nov. 14. Class 46.

Crump, E. T., Company, Inc., Richmond, Va. Racing harness. Serial No. 592,133, Nov. 14. Class 3.

Cummins Engine Company, Inc., Columbus, Ind. Maintenance and repair of diesel engines and parts thereof. Serial No. 584,054, Nov. 14. Class 103.

Daggett & Ramsdell, Inc., Newark, N. J. Perfumes, cologne, deodorants and talcum. Serial No. 582,951, Nov. 14. Class 51.

Danbury Rubber Company, Inc., The, Danbury, Conn. Rubber floor and wall tile. Serial No. 582,676, Nov. 14. Class 12.

Dan Dee Pretzel and Potato Chip Company, The, Cleveland, Ohio. Pretzels, potato chips, popcorn, etc. Serial No. 586,844, Nov. 14. Class 46.

Daumit, Ray, Inc., Jersey City, N. J., and Chicago, Ill. Shampoo. Serial No. 549,419, Nov. 14. Class 52.

Davidson, Sondra, Perth Amboy, N. J. Newspaper column. Serial No. 591,021, Nov. 14. Class 38.

Davis Specialties Incorporated, Chicago, Ill. Press plates and pads for pressing clothes. Serial No. 589,076, Nov. 14. Class 24.

Dayton Rubber Company, The, Dayton, Ohio. Radiator hose and V type belts. Serial No. 594,104, Nov. 14. Class 35.

Decorative Cabinet Corp., doing business under the name and tyle of E-Z-Do, New York, N. Y. Furniture. Serial No. 544,964, Nov. 14. Class 32.

Deere & Company, Moline, Ill. Transplanting machines. Serial No. 590,929, Nov. 14. Class 23.

Dennison Manufacturing Company, Framingham, Mass. Gummed paper in sheet form. Serial No. 553,475, Nov. 14. Class 37.

Devonsheer Melba Corporation, West New York, N. J. Corn puffs. Serial No. 585,272, Nov. 14. Class 46.

Diamond Match Company, The, New York, N. Y. Toilet tissue. Serial No. 588,289, Nov. 14. Class 37.

Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh pears. Serial No. 586,738, Nov. 14. Class 46.

Dodger Company, The, Napoleon, Ohio, assignee, by mesne assignments, from Fort Dodge Bottling Works, Inc. Non-alcoholic, maltless beverage. Serial No. 511,208, Nov. 14. Class 45.

Doeskin Products, Inc., New York, N. Y. Cleansing tissues. Serial No. 589,775, Nov. 14. Class 37.

Drake Bakeries Incorporated, Brooklyn, N. Y. Cake. Serial No. 520,447, Nov. 14. Class 46.

Drew, Irving, Corporation, The, Lancaster, Ohio. Shoes. Serial No. 540,819, Nov. 14. Class 39.

Drink Atosst Company, Riverside, N. J. Non-alcoholic syrup. Serial No. 591,075, Nov. 14. Class 45.

Duall Underwear Co., Inc., New York, N. Y. Men's and boys' brief and boxer shorts. Serial No. 581,473, Nov. 14. Class 39.

E-Z-Do: *See*—
Decorative Cabinet Corp.

Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. Serial Nos. 570,194–8, Nov. 14. Class 1.

East Asiatic Company, Inc., The, San Francisco, Calif. Canned fruits, canned vegetables, canned fish, etc. Serial No. 590,262, Nov. 14. Class 46.

Eberhard Faber Pencil Company, Brooklyn, N. Y. Colored pencils and colored lead. Serial No. 590,498, Nov. 14. Class 37.

Eerste Nederlandsche Dames- En Kindermantelfabriek H. Berghaus N. V., Amsterdam, Netherlands. Ladies', girls' and gentlemen's clothing. Serial No. 579,384, Nov. 14. Class 39.

Eichmann & Hecht, New York, N. Y. Plastic film. Serial No. 586,134, Nov. 14. Class 42.

Elnot, Inc., Fremont, Nebr. Preparation in liquid form for use in cold waving human hair, and powder miscible. Serial No. 575,577, Nov. 14. Class 51.

Elkhart Brass Manufacturing Company, Inc., Elkhart, Ind. Portable fire extinguishers. Serial No. 578,380, Nov. 14. Class 23.

Equipment Digest Publishing Company, Cleveland, Ohio. Publication. Serial No. 591,362, Nov. 14. Class 38.

Eskimo Pie Corporation, Bloomfield, N. J. Coated ice cream bar. Serial No. 577,116, Nov. 14. Class 46.

Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Absorbable dusting powder for medical and pharmaceutical use. Serial No. 595,831, Nov. 14. Class 18.

Fabri-Form Company, The, Byesville, Ohio. Custom molding of plastics. Serial No. 551,376, Nov. 14. Class 106.

Fal Dells Products Co.: *See*—
Wilson, Willie.

Fallbrook Citrus Association, Fallbrook, Calif. Fresh citrus fruits. Serial No. 555,807, Nov. 14. Class 46.

Faries Manufacturing Company, Decatur, assignor to Faries Manufacturing Company, Chicago, Ill. Bathroom cabinets, wall mirrors, and cosmetic sets. Serial No. 505,745, Nov. 14. Class 32.

Farms Tools, Inc., Mansfield, Ohio. Disc harrows. Serial No. 488,209, Nov. 14. Class 23.

Finkel Outdoor Products, Inc., New York, N. Y. Umbrellas. Serial No. 599,161, Nov. 14. Class 41.

Flexibox Limited, Manchester, England. Joint packings. Serial No. 573,538, Nov. 14. Class 35.

Fly-Ties, Inc., New York, N. Y. Neckties. Serial No. 586,272, Nov. 14. Class 39.

Food-O-Mat Corporation, New York, N. Y. Display, sales, and storage stands. Serial No. 589,694, Nov. 14. Class 32.

Forbes, James H., Tea and Coffee Company, St. Louis, Mo. Coffee, coffee and chicory, etc. Serial No. 542,459, Nov. 14. Class 46.

Fort Dodge Bottling Works, Inc.: *See*—
Dodger Company, The.

Fort Schuyler Knitting Company, Utica, N. Y. Men's kitted underwear and T shirts, knitted undershirts, etc. Serial No. 576,258, Nov. 14. Class 39.

Fox, Emmett L., Brooks, W. Va. Insecticide. Serial No. 580,234, Nov. 14. Class 6.

Fra Ward Pet Food Company: *See*—
Swaim, Frank A.

Fraternity of Phi Gamma Delta, Washington, D. C. Jewelry. Serial No. 592,680, Nov. 14. Class 28.

Galion Allsteel Body Company, The: *See*—
Central Ohio Steel Products Company.

General Coffee Company: *See*—
General Grocer Company.

General Grocer Company, also trading as General Coffee Company, St. Louis, Mo. Coffee. Serial No. 538,272, Nov. 14. Class 46.

General Refractories Company, Philadelphia, Pa. Fire clay mortar. Serial No. 555,872, Nov. 14. Class 12.

Gerda Footwear Co., Inc., New York, N. Y. Moccasins. Serial No. 593,483, Nov. 14. Class 39.

Gold Leaf Record Company, Salt Lake City, Utah. Grooved phonograph records. Serial No. 576,911, Nov. 14. Class 36.

Goldstein Millinery Company, Chicago, Ill. Ladies', misses', and children's hats. Serial No. 587,083, Nov. 14. Class 39.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 583,689, Nov. 14. Class 42.

Gordon, Herbert L., New York, N. Y. Hosiery. Serial No. 542,116, Nov. 14. Class 39.

Gottlieb, Lou, & Son, Inc., Philadelphia, Pa. Apparatus for producing and dispensing carbonated and non-carbonated beverages. Serial No. 556,259, Nov. 14. Class 23.

Greenbaum, Charles, doing business as Thera-Plast Co., New York, N. Y. Deformable putty-like material. Serial No. 593,724, Nov. 14. Class 44.

Gringer, Rose, doing business as Ultra Manufacturing Co., New York, N. Y. Saws. Serial No. 574,769, Nov. 14. Class 23.

Haggar Company, Dallas, Tex. Men's and boys' trousers and slacks. Serial No. 564,872, Nov. 14. Class 39.

Hamm, Theo., Brewing Co., St. Paul, Minn. Beer. Serial No. 585,021, Nov. 14. Class 48.

Hammond Research Corporation, Gloucester, Mass. Bottle openers. Serial No. 593,986, Nov. 14. Class 23.

Hanovia Chemical and Manufacturing Company, Newark, N. J. Ultraviolet germicidal lamps. Serial No. 567,399, Nov. 14. Class 21.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Fire brick. Serial No. 578,499, Nov. 14. Class 12.

Hayford Associates, Paterson, N. J. Electrically operated regulator. Serial No. 574,229, Nov. 14. Class 26.

Heminway & Bartlett Manufacturing Company, The, Watertown, Conn. Sewing thread. Serial Nos. 593,797–8, Nov. 14. Class 43.

Hickok Manufacturing Co. Inc., Rochester, N. Y. Braces, and garters. Serial No. 535,843, Nov. 14. Class 39.

Hoberg Paper Mills, Inc., Green Bay, Wis. Paper towels, paper napkins, toilet tissue, and paper kitchen towels. Serial No. 565,339, Nov. 14. Class 37.

Hockaday, Inc., Chicago, Ill. Paste and ready-mixed paints, varnishes, lacquers, and paint enamels. Serial No. 515,558, Nov. 14. Class 16.

Holly Molding Devices, Inc., Chicago, Ill. Hand operated hamburger patty molding machines. Serial No. 524,462, Nov. 14. Class 23.

Home Protection Company, Incorporated, Big Rapids, Mich. Finely divided insulating material. Serial No. 571,932, Nov. 14. Class 12.

Hurley, A. P., Co.: *See*—
Hurley, Arthur P.

Hurley, Arthur P., doing business as A. P. Hurley Co., Boise, Idaho. Storage cabinets. Serial No. 563,252, Nov. 14. Class 32.

Hussco Shoe Company, Honesdale, Pa. Moccasins. Serial No. 596,095, Nov. 14. Class 39.

Hygrade Food Products Corporation, New York, N. Y. Butter, fresh eggs, and cheese. Serial No. 585,119, Nov. 14. Class 46.

Ilford, Limited, Ilford, England. Films and plates for colour photography. Serial No. 594,046, Nov. 14. Class 26.

Interchemical Corporation, New York, N. Y. Shower curtains, window curtains, and table coverings. Serial No. 512,973, Nov. 14. Class 42.

International Felt Corp., Philadelphia, Pa. Felt material used for insulating, waterproofing, and soundproofing purposes. Serial No. 584,329, Nov. 14. Class 12.

Jantzen Knitting Mills Inc., Portland, Oreg. Men's, women's, and children's apparel. Serial No. 586,413, Nov. 14. Class 39.

Jarrell Distributors: *See*—
Jarrell, James F., Jr.

Jarrell, James F., Jr., doing business as Jarrell Distributors, Dallas, Tex. Hood to be placed over a kitchen range. Serial No. 580,410, Nov. 14. Class 34.

Joanna Western Mills Company, Chicago, Ill. Window shades. Serial No. 574,709, Nov. 14. Class 32.

Johnson, S. C., & Son, Inc., Racine, Wis. Wax emulsion. Serial No. 580,243, Nov. 14. Class 6.

Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Metal structural shapes. Serial No. 572,667, Nov. 14. Class 12.

Jung Arch Brace Co., assignor to Jung Products Inc., Cincinnati, Ohio. Corn plasters, callus and bunion plasters, etc. Serial No. 574,038, Nov. 14. Class 44.

Jung Products Inc., assignee: *See*—
Jung Arch Brace Co.

Kaylon Incorporated, New York, N. Y. Pajamas, pajama coats, beach coats, etc. Serial No. 557,530, Nov. 14. Class 39.

Kaylon Incorporated, New York, N. Y. Women's and girls' pajamas, pajama coats, beach coats, etc. Serial No. 571,974, Nov. 14. Class 39.

Kaylon Incorporated, New York, N. Y. Women's pajamas, pajama coats, beach coats, etc. Serial No. 571,975, Nov. 14. Class 39.

Kearney & Trecker Corporation, West Allis, Wis. Machine tools. Serial Nos. 593,515–16, Nov. 14. Class 23.

Kellam, M. & J. B., Co., Binghamton, N. Y. Coffee. Serial No. 537,458, Nov. 14. Class 46.

King, James F., doing business as Somers Mountain Indian Trading Post, Somers, Conn. Indian novelties. Serial No. 582,135, Nov. 14. Class 39.

Krispy Kreme Doughnut Company, Winston-Salem, N. C. Doughnuts and the mix for making same. Serial No. 539,529, Nov. 14. Class 46.

Kwon, Doin, Honolulu, T. H. Interior bamboo curtains. Serial No. 588,998, Nov. 14. Class 32.

Laclede-Christy Company, St. Louis, Mo. Refractory material. Serial No. 567,791, Nov. 14. Class 12.

Lear, Incorporated, Grand Rapids, Mich. Non-self-measuring, hand-operated fluid pumps, vacuum pumps, etc. Serial No. 587,637, Nov. 14. Class 23.

Lebow, Victor, New York, N. Y. Combination slipper and sock. Serial No. 595,505, Nov. 14. Class 39.

Lee, Frank H., Company, The, Danbury, Conn. Men's and women's hats and caps. Serial No. 576,339, Nov. 14. Class 39.

Lee Paper Company, Vicksburg, Mich. Light-weight, smooth-finished, rag-content card stock. Serial No. 515,120, Nov. 14. Class 37.

Lennox Metal Manufacturing Company, Inc., New York and Maspeth, N. Y. Rulers. Serial No. 592,327, Nov. 14. Class 26.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial Nos. 495,071–2, Nov. 14. Class 52.

Le Tourneau, R. G., Inc., Stockton, Calif., and Peoria, Ill. Power transmission units. Serial No. 538,299, Nov. 14. Class 23.

Libbey, W. S. Company, Lewiston, Maine. Blankets. Serial No. 561,633, Nov. 14. Class 42.

Lipmatch Company, The, assignor to The Lipmatch Company Ltd., Montreal, Quebec, Canada. Lip make-up. Serial No. 574,041, Nov. 14. Class 51.

Lipmatch Company Ltd., The, assignee: *See*—
Lipmatch Company, The.

Lipsky, Maurice, Music Company, New York, N. Y. Accordions. Serial No. 582,569, Nov. 14. Class 36.

Livingston & Livingston, New York, N. Y. Women's and misses' blouses, dresses, shirts, etc. Serial No. 550,420, Nov. 14. Class 39.

Lubin-Weeker Co., Inc., New York, N. Y. Men's pajamas. Serial Nos. 550,052–3, Nov. 14. Class 39.

Lucas, John, & Company, Inc., Philadelphia, Pa. Oil-stains; varnishes; and undercoaters. Serial No. 560,564, Nov. 14. Class 16.

Luxury Products Company, Burlington, Iowa. Liquid wax compounds. Serial No. 513,666, Nov. 14. Class 4.

Lyn-Mar Acres, Mount Holly, N. J. Dogs and cattle. Serial No. 537,202, Nov. 14. Class 1.

Macy, R. H., & Co., Inc., New York, N. Y. Shoes. Serial No. 580,020, Nov. 14. Class 39.

Maintenanee Inc., Wooster, Ohio. Surface coating material. Serial No. 577,392, Nov. 14. Class 12.

Malzone Sports, Inc., Union City, N. J. Athletic clothing. Serial No. 580,996, Nov. 14. Class 39.

Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Periodical. Serial No. 580,608, Nov. 14. Class 38.

Marks, Walter K., Inc., New York, N. Y. Ladies' hats. Serial No. 590,026, Nov. 14. Class 39.

Marlboro Shirt Company, Inc., Baltimore, Md. Men's and boys' dress, negligee, and work shirts. Serial No. 556,805, Nov. 14. Class 39.

Martin, J. Kendley, Atlanta, Ga., doing business as The Standard Feed Milling Company, Hopkinsville, Ky. Dog food. Serial No. 566,526, Nov. 14. Class 46.

May Department Stores Company, The, New York, N. Y., and St. Louis, Mo. Carpeting. Serial No. 578,609, Nov. 14. Class 42.

McCrory Stores Corporation, New York, N. Y. Ladies' hosiery. Serial No. 568,963, Nov. 14. Class 39.

McGill Manufacturing Company, Inc., Valparaiso, Ind. Portable hand tools. Serial No. 583,355, Nov. 14. Class 23.

McGraw Electric Company, Elgin, Ill. Electrical appliances. Serial No. 593,280, Nov. 14. Class 21.

McKee Glass Company, Jeannette, Pa. Glass ash trays. Serial No. 594,977, Nov. 14. Class 8.

McLaurin-Jones Co., Brookfield, Mass. Gummed paper. Serial No. 586,295, Nov. 14. Class 37.

Mead, Johnson, & Company, Evansville, Ind. Food product. Serial No. 590,172, Nov. 14. Class 46.

Mell-Hoffmann Mfg. Co., Chicago, Ill. Portable tables. Serial No. 586,980, Nov. 14. Class 32.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Plastic web-like fabric substitute. Serial No. 581,433, Nov. 14. Class 42.

Missouri-Oklahoma Express, Inc., Kansas City, Mo. Freight transportation service by truck. Serial No. 590,382, Nov. 14. Class 105.

Modern Venetian Blinds, Inc., New York, N. Y. Venetian blinds and slats for Venetian blinds. Serial No. 591,374, Nov. 14. Class 32.

Modglin Company, Inc., Los Angeles, Calif. Plastic bristles. Serial No. 590,278, Nov. 14. Class 1.

Mohawk Business Machines Corporation, New York, N. Y. Soundmagnet. Serial No. 582,572, Nov. 14. Class 21.

Monogram Manufacturing Company, Los Angeles, Calif. Sheet metal clamps, and hand tools. Serial No. 580,735, Nov. 14. Class 23.

Montag Brothers, Inc., Atlanta, Ga. Writing paper. Serial No. 519,683, Nov. 14. Class 37.

Moore, B. C., & Sons, Incorporated, Cheraw, S. C. Women's hats. Serial No. 585,390, Nov. 14. Class 39.

Motomatic Products Company, Cleveland, Ohio. Rear view mirrors. Serial No. 581,342, Nov. 14. Class 19.

Murphy Elevator Company, The, Louisville, Ky. Heavy duty electric freight elevators. Serial No. 588,965, Nov. 14. Class 21.

Mutation Mink Breeders Association, Elkhorn, Wis. Fur coats. Serial No. 578,698, Nov. 14. Class 39.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Waxed paper. Serial No. 590,823, Nov. 14. Class 37.

National Cylinder Gas Company, Chicago, Ill. Electrical fittings. Serial No. 566,531, Nov. 14. Class 21.

Negbaur, H., & Co., New York, N. Y. Pyrophoric cigar or cigarette lighters. Serial No. 593,235, Nov. 14. Class 8.

Neiman-Marcus Company, Dallas, Tex. Mink skins. Serial No. 560,036, Nov. 14. Class 1.

Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. Serial No. 590,617, Nov. 14. Class 38.

Northern Lubricating Company: *See*—
Sire, Sigurd.

Numotizine, Inc., Chicago, Ill. Laxative and bile stimulant. Serial No. 569,212, Nov. 14. Class 18.

Optical Devices, Incorporated, Joliet, Ill. Edger booster. Serial No. 542,644, Nov. 14. Class 23.

Owen-Morgan, Inc., New York, N. Y. Women's wearing apparel. Serial No. 590,988, Nov. 14. Class 39.

Paoli, Stephen A., Rockford, Ill. Shrimp peeler and deveiner implements. Serial No. 581,976, Nov. 14. Class 23.

Paramount Shoe Manufacturing Company, St. Louis, Mo. Shoes. Serial No. 500,119, Nov. 14. Class 39.

Party Top Co.: *See*—
Bergman, Edward L.

Patons & Baldwins, Inc., New York, N. Y. Yarns. Serial No. 589,676, Nov. 14. Class 43.

Payson, George M., doing business as Adpix, Millis, Mass. Wood novelties. Serial No. 571,988, Nov. 14. Class 23.

Pearce, Thomas W., Greenville, Del. Printed instruction sheets and bookkeeping forms. Serial No. 540,866, Nov. 14. Class 37.

Permanente Cement Company, Oakland, Calif. Building cement. Serial No. 587,593, Nov. 14. Class 12.

Pioneer Rubber Mills, San Francisco, Calif. Fire hose. Serial No. 578,464, Nov. 14. Class 35.

Planters Nut and Chocolate Company, Wilkes-Barre, Pa. Salted shelled peanuts, potato chips, candied and buttered pop corn, etc. Serial No. 562,220, Nov. 14. Class 46.

Plymouth Manufacturing Company, Boston, Mass. Men's topcoats and raincoats. Serial No. 598,106, Nov. 14. Class 39.

Porter, Philip, Inc.: *See*—
Consolidated Foods, Inc.

Prenzel, Edward C., doing business as Prenzel System Company, Demopolis, Ala. Partially printed bookkeeping forms. Serial No. 503,222, Nov. 14. Class 37.

Prenzel System Company: *See*—
Prenzel, Edward C.

Pressure Products Corporation, Chicago, Ill. Small portable gas burners. Serial No. 594,491, Nov. 14. Class 34.
Price, Paul A., doing business as Paul A. Price Company, New York, N. Y. Toy sets. Serial No. 573,437, Nov. 14. Class 22.
Price, Paul A., Company: *See*—
Price, Paul A.
Professional Printing Company, Inc., Brooklyn, N. Y. Partially printed blank forms. Serial No. 589,739, Nov. 14. Class 37.
Protection Products Co., Chicago, Ill. Automobile seat covers. Serial No. 507,420, Nov. 14. Class 19.
Providence Braid Company, Pawtucket, R. I. Elastic tape or band. Serial No. 577,597, Nov. 14. Class 40.
Pullman Couch Company, Chicago, Ill. Upholstered chairs. Serial No. 574,379, Nov. 14. Class 32.
Pullman Couch Company, Chicago, Ill. Upholstered chairs. Serial No. 588,886, Nov. 14. Class 32.
Puritan Knitting Mills, Inc., The, Altoona, Pa. Wearing apparel for men and boys. Serial No. 561,589, Nov. 14. Class 39.
Ragsdale Beauty Shop: *See*—
Ragsdale, Vernol A.
Ragsdale, Vernol A., doing business as Tidee, also as Ragsdale Beauty Shop, St. Louis, Mo. Solution for use in so-called permanent waving of human hair. Serial No. 579,058, Nov. 14. Class 51.
Rand Textile Development Corp., Cleveland, Ohio. Apparatus for testing the ratio of the volume of interstices of a textile fabric material to the volume of its mass. Serial No. 593,998, Nov. 14. Class 26.
Rapids-Standard Company, Inc., The, Grand Rapids, Mich. Portable power belt conveyors. Serial No. 565,370, Nov. 14. Class 23.
Rattlelite Corp., New York, N. Y. Toy rattles. Serial No. 587,399, Nov. 14. Class 22.
Rejane, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 592,223, Nov. 14. Class 51.
Reymer & Brothers, Incorporated, Pittsburgh, Pa. (Non-alcoholic, maltless) soft drinks and syrups for making same. Serial No. 580,321, Nov. 14. Class 45.
Rider, Kenneth N., Company, Inc., Trafalgar, Ind. Canned vegetables. Serial No. 589,682, Nov. 14. Class 46.
Roberts, Evelyn L., Beverly Farms, Mass. Crockery and porcelainware. Serial No. 596,805, Nov. 14. Class 30.
Rogers Delinted Cottonseed Co.: *See*—
Rogers Delinted Cottonseed Co., Ltd.
Rogers Delinted Cottonseed Co., Ltd., assignor to Rogers Delinted Cottonseed Co., Waco, Tex. Cottonseed. Serial No. 577,071, Nov. 14. Class 1.
Roosen Silks Limited, London, England. Piece goods. Serial No. 579,131, Nov. 14. Class 42.
Rowland, Gladys E., Hanover, Pa. Packaged group of capsules. Serial No. 584,203, Nov. 14. Class 50.
Royal Coach Products, Compton, Calif. Automobile and furniture wax polishes. Serial No. 577,689, Nov. 14. Class 4.
Royal Robes, Inc., New York, N. Y. Traveling robe, bath robe, and beach robe. Serial No. 587,159, Nov. 14. Class 39.
S & C Electric Company, Chicago, Ill. Fuse links. Serial No. 591,959, Nov. 14. Class 21.
Schneierson, I., & Sons, Inc., New York, N. Y. Piece goods. Serial No. 578,536, Nov. 14. Class 42.
Schuckl & Co., Inc., Sunnyvale, Calif. Canned tomato paste. Serial No. 590,238, Nov. 14. Class 46.
Schwob Linens, Inc., New York, N. Y. Hand towels, huck towels, guest towels, etc. Serial No. 584,018, Nov. 14. Class 42.
Sears, Roebuck and Co., Chicago, Ill. Sponges and chamois. Serial No. 573,686, Nov. 14. Class 1.
Selected Risks Indemnity Company, Branchville, N. J. Underwriting of casualty, fire, liability, etc. insurance. Serial No. 549,758, Nov. 14. Class 102.
Seneca Falls Machine Company, Seneca Falls, N. Y. Lathes. Serial No. 554,262, Nov. 14. Class 23.
Servus Rubber Company, The, Rock Island, Ill. Rubber boots and shoes. Serial Nos. 519,901–2, Nov. 14. Class 39.
Sethness, C. O. & W. D., Co., Chicago, Ill. Chocolate flavored base used in the preparation of non-alcoholic maltless soft drinks. Serial No. 590,645, Nov. 14. Class 45.
Shannon, E. Hampton, doing business as Eve Shannon, New York, N. Y. Perfume, cologne, and toilet water. Serial No. 584,407, Nov. 14. Class 51.
Shannon, Eve: *See*—
Shannon, E. Hampton.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Writing sets. Serial No. 527,917, Nov. 14. Class 37.
Sherman Upholstery Co., Springfield, Mass. Upholstered sofas, divans, love seats, etc. Serial No. 572,062, Nov. 14. Class 32.
Shoffner, Willie M., Dayton, Ohio. Portable tool stands. Serial No. 556,292, Nov. 14. Class 23.
Simons & French Company, Incorporated, New York, N. Y., and Sacramento, Calif. Fresh deciduous fruits. Serial No. 526,307, Nov. 14. Class 46.
Sire, Sigurd, doing business as Northern Lubricating Company, Minneapolis, Minn. Lubricating oils. Serial No. 592,946, Nov. 14. Class 15.
Skyknit Products, Inc., New York, N. Y. Socks, underwear, hosiery, etc. Serial No. 552,884, Nov. 14. Class 39.
Smith, C. G., Products Company, Blytheville, Ark. Liniment. 572,383, Nov. 14. Class 18.
Smith Textile Corporation, New York, N. Y. Shade cloth. Serial Nos. 578,055–6, Nov. 14. Class 42.
Smith, W. T., Lumber Co., Chapman, Ala. Finished and unfinished lumber. Serial No. 566,305, Nov. 14. Class 12.
Snyder, John A., doing business as Snyder's Bakery Service, Oakland, Calif. Synthetic butter flavoring. Serial No. 564,296, Nov. 14. Class 46.
Snyder's Bakery Service: *See*—
Snyder, John A.
Société à Responsabilité Limitée Comptoir de l'Industrie Cotonnière, Paris, France. Umbrellas. Serial No. 593,840, Nov. 14. Class 41.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille-Montagne, Angleur, Par Chenee, Belgium. Thermic raw zinc. Serial No. 586,657, Nov. 14. Class 14.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille-Montagne, Angleur, Par Chenee, Belgium. Lead. Serial No. 586,658, Nov. 14. Class 14.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille-Montagne, Angleur, Par Chenee, Belgium. Electrolytic raw zinc. Serial No. 586,659, Nov. 14. Class 14.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Chemical compositions. Serial No. 563,796, Nov. 14. Class 6.
Soderberg, P. W., Co.: *See*—
Soderberg, Paul W.
Soderberg, Paul W., doing business as P. W. Soderberg Co., Burlington, Iowa. Bleaching and bluing preparation. Serial No. 565,735, Nov. 14. Class 6.
Somers Mountain Indian Trading Post: *See*—
King, James F.
Sorkin Music Company Inc., New York, N. Y. Band instruments. Serial No. 562,091, Nov. 14. Class 36.
Southern Athletic Company, Inc., Knoxville, Tenn. Football shoulder pads and hip pads, and blocking and tackling dummies. Serial No. 590,332, Nov. 14. Class 22.
Southern Cotton Oil Company, The, New Orleans, La. Cotton-seed oil for salads and cooking. Serial No. 585,460, Nov. 14. Class 46.
Spiegel, Inc., Chicago, Ill. Women's shoes. Serial No. 596,127, Nov. 14. Class 39.
Standard Feed Milling Company, The: *See*—
Martin, J. Kendley.
Standard Industrial Compounds Co., Chicago, Ill. Manufacturer's metal working compounds. Serial No. 570,067, Nov. 14. Class 15.
Standard Insulation Company, East Rutherford, N. J. Laminated cellulose material. Serial No. 573,801, Nov. 14. Class 1.
Stanley Fruit Company, Phoenix, Ariz. Fresh cantaloupe. Serial No. 538,464, Nov. 14. Class 46.
Star-Peerless Wall Paper Mills, Chicago, Ill. Wall paper. Serial No. 576,827, Nov. 14. Class 37.
Sta-Vis Oil Company, St. Paul, Minn. Lubricating oils and greases and for emulsified oil. Serial No. 592,785, Nov. 14. Class 15.
Sta-Vis Oil Company, St. Paul, Minn. Lubricating oils and greases. Serial No. 594,289, Nov. 14. Class 15.
Stearns & Foster Company, The, Lockland, Cincinnati, Ohio. Mattresses. Serial No. 590,040, Nov. 14. Class 32.
Stein, S., & Co., Inc., New York, N. Y. Woolen fabrics in the piece. Serial Nos. 541,048–9, Nov. 14. Class 42.
Stern's Astoria, Inc., New York and Astoria, N. Y. Men's and boys' suits, top coats, sport coats and rain coats. Serial No. 581,741, Nov. 14. Class 39.
Storm Wizard Manufacturing Co., Philadelphia, Pa. Storm windows and storm doors. Serial No. 582,252, Nov. 14. Class 12.
Superior Sleeprite Corporation, Chicago, Ill., assignor to American Furniture Company, Batesville, Ind. Desks, chests of drawers, wood chairs, etc. Serial No. 557,223, Nov. 14. Class 32.
Surry Manufacturers, Ltd., New York, N. Y. Ladies' coats. Serial No. 586,120, Nov. 14. Class 39.
Swalm, Frank A., doing business as Fra Ward Pet Food Company, Loma Linda, Calif. Canned dog and cat food. Serial No. 590,567, Nov. 14. Class 46.
Textile Mills Company, Chicago, Ill. Ironing board pads and ironing board covers. Serial No. 578,110, Nov. 14. Class 24.
Thera-Plast Co.: *See*—
Greenbaum, Charles.
Thomas & Betts Co., The, Elizabeth, N. J. Electrical merchandise. Serial No. 547,056, Nov. 14. Class 21.
Thomson Company, Thomson, Ga. Men's and boys' trousers. Serial No. 590,534, Nov. 14. Class 39.
Tidee Company: *See*—
Ragsdale, Vernol A.
Tile Roofing Company, Inc., Stratford, Conn. Roofing materials. Serial No. 524,635, Nov. 14. Class 12.
Timely Accessories, Inc., New York, N. Y. Collars and cuffs. Serial No. 510,368, Nov. 14. Class 39.
Treitel-Gratz Co., Inc., New York, N. Y. Light-weight metal-frame chairs. Serial No. 568,692, Nov. 14. Class 32.
Twin Shoe Company: *See*—
Boghosian, Halg A.
Ultra Manufacturing Co.: *See*—
Gringer, Rose.

United Laboratories, Cottonwood, Ariz. Hair dressing and scalp conditioning composition. Serial No. 590,568, Nov. 14. Class 51.
United Tire & Accessories Company, Tulsa, Okla. Lubricating greases. Serial No. 559,872, Nov. 14. Class 15.
Victor Chemical Works, Chicago, Ill. Monoammonium phosphate, diammonium phosphate and combinations thereof. Serial No. 528,540, Nov. 14. Class 6.
Warren Refining & Chemical Co., Cleveland, Ohio. Non-liquid, non-melting, grease-type lubricants. Serial No. 593,253, Nov. 14. Class 15.
Weathers Brothers Transfer Company, Inc., Atlanta, Ga. Moving and transferring by motor van. Serial No. 543,240, Nov. 14. Class 105.
Webrib Steel Corporation, New York, N. Y. Steel concrete reinforcing bars. Serial No. 572,882, Nov. 14. Class 12.
Weis, Henry, Manufacturing Company, Elkhart, Ind. Cabinet showers. Serial No. 571,373, Nov. 14. Class 13.
Wennonah Cotton Mills Company, Lexington, N. C. Corded cotton fabrics. Serial No. 573,907, Nov. 14. Class 42.
Western Air Lines, Inc., Los Angeles and Los Angeles Airport, Calif. Publications. Serial No. 559,761, Nov. 14. Class 38.
Western Auto Supply Company, Kansas City, Mo. Electric fence controllers, gasoline powered generators, and electric water heaters. Serial No. 548,033, Nov. 14. Class 21.
Western Fruit & Produce Co., Inc., Yakima, Wash. Fresh deciduous fruits. Serial No. 584,178, Nov. 14. Class 46.
Weston Electrical Instrument Corporation, Newark, N. J. Indicating, integrating, recording, and controlling instruments. Serial No. 577,412, Nov. 14. Class 26.
Weston International Associates, New York, N. Y. Lighters. Serial No. 570,735, Nov. 14. Class 8.
Wetherbee, Theodore, trading and doing business as Colorado Stick Quick Sales, Denver, Colo. Solidified adhesive. Serial No. 570,916, Nov. 14. Class 5.
Williamson, Ellen, Princeton, N. J. Writing paper, notepaper, correspondence envelopes, etc. Serial No. 568,987, Nov. 14. Class 37.
Wilson, Walter B., Jr., Miami Beach, Fla. Medical prescription blank forms. Serial No. 590,474, Nov. 14. Class 37.
Wilson, Willie, doing business as Fal Dells Products Co., Gary, Ind. Hair dressing preparation. Serial No. 579,768, Nov. 14. Class 51.
Winkler-Morgenthaler, Inc., Philadelphia, Pa. Electrically operated commercial and industrial refrigeration. Serial No. 560,852, Nov. 14. Class 31.
Winogradow, Alexander, New York, N. Y. Decorated pieces of metal or plastics. Serial No. 577,920, Nov. 14. Class 50.
Winter, Jack, Inc., Milwaukee, Wis. Men's, women's, boys' and girls' slacks. Serial No. 590,537, Nov. 14. Class 39.
Witcombe, McGeachin & Co. Inc., New York, N. Y. Textile fabrics. Serial No. 539,110, Nov. 14. Class 42.
Woolworth, F. W., Co., New York, N. Y. Thread and yarn. Serial No. 587,064, Nov. 14. Class 43.
Woolworth, F. W., Co., New York, N. Y. Elementary knitting kits. Serial No. 594,678, Nov. 14. Class 40.
Yoder Company, The, Cleveland, Ohio. Tube forming mills, cut-off machines, press-type cut-off machines, etc. Serial No. 574,400, Nov. 14. Class 23.
Zephyr American Corporation, New York, N. Y. Address and phone indexes. Serial No. 586,716, Nov. 14. Class 37.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Drug. 533,461, Nov. 14; Serial No. 584,099, published Aug. 15, 1950. Class 18.
Ace Industries Company, Youngstown, Ohio. Metal combination storm windows. 533,469–70, Nov. 14; Serial Nos. 585,356–7, published Aug. 8, 1950. Class 12.
Acheson Colloids Corporation: *See*—
International Acheson Graphite Co.
Adco, Inc.: *See*—
American Disinfecting Company.
Aktiebolaget Hardmetallverktyg, Ockelbo, Sweden. Turning chisels, halftwist bits, reamers, end face mills, etc. 533,383, Nov. 14; Serial No. 569,730, published June 6, 1950. Class 23.
Aktiengesellschaft A. & R. Moos, Weisslingen, Switzerland. Cotton piece goods. 533,356, Nov. 14; Serial No. 561,996, published Aug. 15, 1950. Class 42.
Albers Milling Company, Los Angeles and Oakland, Calif., Portland, Oreg., and Seattle, Wash. Animal feeds and poultry feeds. 533,357, Nov. 14; Serial No. 562,172, published June 27, 1950. Class 46.
Altman, B., & Co., New York, N. Y. Thumb tacks; furniture slide casters and caster wheels; etc. 533,385, Nov. 14; Serial No. 570,158, published Aug. 15, 1950. Class 13.
Amalgamated Roofing Company, to The Logan-Long Company, Chicago, Ill. Shingles. 273,575, renewed Aug. 5, 1950. O. G. Nov. 14. Class 12.
American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 533,483, Nov. 14; Serial No. 589,059, published Aug. 15, 1950. Class 42.
American Brake Shoe Company, New York, N. Y. Friction elements; fan belts, radiator hose, etc. 533,492, Nov. 14; Serial No. 590,053, published July 18, 1950. Class 35.
American Carry-Products Company, Inc., assignee of American Products Company, North Hollywood, Calif. Baby stroller. 533,500, Nov. 14; Serial No. 502,417. Class 19.
American Creosoting Company, to American Creosoting Company, Louisville, Ky. Railroad crossties, poles, piles, etc. 276,640–1, renewed Oct. 21, 1950. O. G. Nov. 14. Class 12.
American Cyanamid Company, New York, N. Y. Appliances for administration of anti-biotics, anti-histaminics, etc. 533,287, Nov. 14; Serial No. 532,262, published Aug. 15, 1950. Class 44.
American Disinfecting Company, to Adco, Inc., Sedalia, Mo. Liquid soap soluble in gasoline. 279,289, renewed Jan. 13, 1951. O. G. Nov. 14. Class 52.
American Encaustic Tiling Company, Inc.: *See*—
Franklin Pottery (Inc.).
American Optical Company, Southbridge, Mass. Magazines or periodicals. 274,611, renewed Sept. 2, 1950. O. G. Nov. 14. Class 38.
American Products Company: *See*—
American Carry-Products Company, Inc.
American Swiss File & Tool Co., Elizabeth, N. J. Files and hand tools. 35,700–1, re-renewed Jan. 1, 1951. O. G. Nov. 14. Class 23.
American Syrup & Sorghum Co., St. Louis, Mo. Table syrups, sorghum syrup. 533,288, Nov. 14; Serial No. 532,422, published July 4, 1950. Class 46.
American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool-cotton, sewing-cotton, thread and cotton yarn. 79,954, re-renewed Oct. 25, 1950. Class 43.
American Welding and Manufacturing Company, The, Warren, Ohio. Doors and door frames. 533,477, Nov. 14; Serial No. 587,599, published Aug. 8, 1950. Class 12.
Amerise, William, doing business as Hazleton Macaroni Co., Hazleton, Pa. Canned pickles. 533,440, Nov. 14; Serial No. 581,232, published June 27, 1950. Class 46.
Anglo-American Leather Co., Inc., Newark, N. J. Treated leather skins. 533,418, Nov. 14; Serial No. 578,250, published Aug. 15, 1950. Class 1.
Antles, Leo C., trading as Fruit Tree Pollen Supplies Co., Wenatchee, Wash. Specially prepared pollen. 533,392, Nov. 14; Serial No. 572,937, published Aug. 8, 1950. Class 1.
Apex Products Corporation, assignee: *See*—
Clean Home Products Corporation.
Apex Products Corporation, to Clean Home Products, Inc., Chicago, Ill. Deodorizer. 278,046, renewed Dec. 2, 1950. O. G. Nov. 14. Class 6.
Aqua Mfg. Co., Inc., New York, N. Y. Bathing suits. 533,436, Nov. 14; Serial No. 580,709, published Aug. 1, 1950. Class 39.
Argiro, Hermanos, Buenos Aires, Argentina. Electric motors, electric fans, dynamos, etc. 533,503, Nov. 14; Serial No. 519,820. Class 21.
Arkwright, Incorporated, New York, N. Y. Sheets and pillow cases. 533,478, Nov. 14; Serial No. 588,195, published Aug. 1, 1950. Class 42.
Armour and Company, Chicago, Ill. Butter and fresh eggs. 533,286, Nov. 14; Serial No. 532,196, published June 20, 1950. Class 46.
Arnold Stone Company: *See*—
Arnold Stone Company of North Carolina, Inc.
Arnold Stone Company of North Carolina, Inc., doing business as Arnold Stone Company, Greensboro, N. C. Lath pans and precast concrete joists and filler blocks. 533,454, Nov. 14; Serial No. 582,883, published July 18, 1950. Class 12.
Arrow Manufacturing Company, Denver, Colo. Tractor-drawn rippers, tractor bulldozer and angledozer blade attachments, etc. 533,528, Nov. 14; Serial No. 596,646. Class 23.
Arrow Supply & Tool Co., New York, N. Y. Dental tweezers. 533,294, Nov. 14; Serial No. 533,971, published Aug. 15, 1950. Class 44.
Arrowhead Rubber Company, Vernon, Calif. Synthetic rubber weather stripping. 533,409, Nov. 14; Serial No. 576,566, published Aug. 8, 1950. Class 12.
Artloom Corporation, Philadelphia, Pa. Carpets and rugs. 394,352–3, Mar. 31, 1942. Republished Nov. 14. Class 42.
Artloom Corporation, Philadelphia, Pa. Carpets and rugs. 398,041, Oct. 6, 1942. Republished Nov. 14. Class 42.

Artloom Corporation, Philadelphia, Pa. Carpets and rugs. 398,979, Dec. 8, 1942. Republished Nov. 14. Class 42.

Associated Food Distributors, Inc., Coldwater, Mich. Canned and packaged food products. 533,285, Nov. 14; Serial No. 531,077, published June 27, 1950. Class 46.

Associated Merchandising Corporation, The: *See*—
Associated Merchandising Corporation.

Associated Merchandising Corporation, to The Associated Merchandising Corporation, New York, N. Y. Women's and misses' hand bags and pocketbooks. 279,605, renewed Jan. 20, 1951. O. G. Nov. 14. Class 3.

Associated Merchandising Corporation, to The Associated Merchandising Corporation, New York, N. Y. Women's and misses' coats. 279,606, renewed Jan. 20, 1951. O. G. Nov. 14. Class 39.

Associated Merchandising Corporation, to The Associated Merchandising Corporation, New York, N. Y. Women's and girls' dresses, coats, leather shoes, etc. 279,688, renewed Jan. 20, 1951. O. G. Nov. 14. Class 39.

Associated Military Stores, Chicago, Ill. Men's sportwear. 444,316, Nov. 14; Serial No. 520,604, published June 27, 1950. Class 39.

Atalanta Products Corp., New York, N. Y. Canned ham. 533,524, Nov. 14; Serial No. 580,009. Class 46.

Atlas Powder Company, Wilmington, Del. Emulsifying, wetting, and dispersing agents. 526,603, June 20, 1950. Corrected. O. G. Nov. 14. Class 6.

Atlas Powder Company, Wilmington, Del. Food emulsifiers. 533,378, Nov. 14; Serial No. 568,168, published June 27, 1950. Class 46.

Atlas Underwear Company, The: *See*—
Piqua Hosiery Co., The.

Auth-Loffler, Inc., Washington, D. C. Sausages and meat loaf. 533,295, Nov. 14; Serial No. 533,973, published June 27, 1950. Class 46.

Automatic Products Co., Minneapolis, Minn. Automatic cigarette vending machines. 533,424, Nov. 14; Serial No. 579,256, published June 6, 1950. Class 23.

Avon Sole Company, Avon, Mass. Shoe soles. 533,487, Nov. 14; Serial No. 589,403, published Aug. 15, 1950. Class 39.

Avondale Mills, Sylacauga, Ala. Cotton goods in the piece. 533,491, Nov. 14; Serial No. 589,885, published Aug. 15, 1950. Class 42.

Babcock & Wilcox Company, The, New York, N. Y. Mortar. 533,282, Nov. 14; Serial No. 528,854, published Aug. 8, 1950. Class 12.

Barclay-Clover, Inc., New York, N. Y. Scarfs. 533,439, Nov. 14; Serial No. 581,163, published Aug. 1, 1950. Class 39.

Bassick Company, The, Bridgeport, Conn. Casters. 533,455–6, Nov. 14; Serial Nos. 582,937–8, published Aug. 15, 1950. Class 13.

Beau Brummel Ties, Inc., Cincinnati, Ohio. Neckties. 533,300, Nov. 14; Serial No. 540,024, published Aug. 8, 1950. Class 39.

Beechwood Company, Incorporated, The, Stowe, Pa. Tablecovers and window curtains. 533,325, Nov. 14; Serial No. 551,484, published Aug. 15, 1950. Class 42.

Behr, Philip W., doing business as Pilopak Company, New York, N. Y. Container of feathers. 533,363, Nov. 14; Serial No. 564,369, published Aug. 15, 1950. Class 1.

Bellman Brook Bleachery Company, Fairview, N. J. Ready to wear clothing. 533,368, Nov. 14; Serial No. 566,207, published June 27, 1950. Class 39.

Belvidere Laboratories: *See*—
Gilroy, G. Harold.

Benamann, Hermann, Bremen, Germany, to The Chemical Foundation, Incorporated, New York, N. Y. Mineral powder. 79,186, re-renewed Aug. 16, 1950. O. G. Nov. 14. Class 6.

Binney & Smith Company, East Orange, N. J., and New York, N. Y., to The Peerless Carbon Black Company, Pittsburgh, Pa. Pigment for paints. 79,322, re-renewed Aug. 30, 1950. O. G. Nov. 14. Class 16.

Black Manufacturing Co., The, Seattle, Wash. Men's, boys', women's and girls' denim pants and jackets. 533,433, Nov. 14; Serial No. 580,459, published July 11, 1950. Class 39.

Black Diamond Paint & Varnish Works, Inc., The, Cincinnati, Ohio. Paint enamel. 533,336, Nov. 14; Serial No. 554,084, published Aug. 8, 1950. Class 16.

Block, Fred A., Inc., Chicago, Ill. Women's and misses' coats, suits, dresses, and blouses. 533,451, Nov. 14; Serial No. 582,409, published Aug. 15, 1950. Class 39.

Bluemel Bros. Limited, Wolston, England. Air pumps. 533,389, Nov. 14; Serial No. 572,408, published June 13, 1950. Class 23.

Bonat, Samuel, & Bro., Inc., New York, N. Y. Hair dryers, hair waving machines, curling rods, etc. 533,299, Nov. 14; Serial No. 538,597, published July 18, 1950. Class 44.

Bone, William H., doing business under the name and style of Crown Products Company, Douglas, Ga. Screw-worm killing preparation. 444,312, Nov. 14; Serial No. 508,966, published July 25, 1950. Class 18.

Boswell, Reginald A., London, England. Sponges. 533,365, Nov. 14; Serial No. 565,037, published Aug. 15, 1950. Class 1.

Brewer-Titchener Corporation, The, Cortland, N. Y. Shutter fronts for automobile engine radiators. 533,360, Nov. 14; Serial No. 563,723, published Aug. 8, 1950. Class 19.

Bridgeport Brass Company, Bridgeport, Conn. Piping, tubing, pipe fittings, etc. 275,501–2, renewed Sept. 23, 1950. O. G. Nov. 14. Class 13.

Bristol Seamless Ring Co.: *See*—
Kronstadt, Max.

Bristol Seamless Ring Company: *See*—
Kronstadt, Max.

British Drug Houses, Limited, The, London, England. Pharmaceutical preparations. 533,366, Nov. 14; Serial No. 565,167, published July 25, 1950. Class 18.

Bruce Publishing Company, The, Milwaukee, Wis. Periodicals. 274,533, renewed Sept. 2, 1950. O. G. Nov. 14. Class 38.

Bulova Watch Company, Inc., New York, N. Y. Wristbands and bracelets. 533,398, Nov. 14; Serial No. 573,643, published Aug. 8, 1950. Class 28.

Burma-Vita Company, Minneapolis, Minn. Safety razor blades. 533,423, Nov. 14; Serial No. 579,079, published Aug. 1, 1950. Class 23.

Butler Brothers, Chicago, Ill. Men's clothing. 533,371, Nov. 14; Serial No. 566,861, published June 6, 1950. Class 39.

California Almond Growers Exchange, Sacramento, Calif. Shelled and unshelled almonds. 533,505, Nov. 14; Serial No. 535,479. Class 46.

California Packing Corporation, San Francisco, Calif. Canned fruit. 533,452, Nov. 14; Serial No. 582,413, published June 13, 1950. Class 46.

Campe Corporation, The, New York, N. Y. Women's and children's rayon and knit underwear. 277,104, renewed Nov. 4, 1950. O. G. Nov. 14. Class 39.

Canadian Refractories Limited, Montreal, Quebec, Canada. Prepared rock for use in agricultural fertilizer products. 533,345, Nov. 14; Serial No. 557,109, published Aug. 15, 1950. Class 1.

Cantor-Greenspan Co., Inc., New York, N. Y. Rayon piece goods. 533,489, Nov. 14; Serial No. 589,708, published Aug. 15, 1950. Class 42.

Carborundum Company, The, to The Carborundum Company, Niagara Falls, N. Y. Furnaces and parts thereof; radiating combustion chambers, etc. 275,504, renewed Sept. 23, 1950. O. G. Nov. 14. Class 34.

Carey, Philip, Manufacturing Company, The, Lockland and Cincinnati, Ohio. Asphaltic roof paint, primer and roof coating. 533,344, Nov. 14; Serial No. 556,477, published Aug. 8, 1950. Class 16.

Carey Salt Company, The, Hutchinson, Kans. Medium salt; table salt; salt spools; etc. 533,298, Nov. 14; Serial No. 537,153, published June 20, 1950. Class 46.

Carsolite Corporation, Maywood, Ill. Cleanser and renovator. 505,837, Jan. 18, 1949. Canceled Sept. 29, 1950. O. G. Nov. 14.

Carter, William, Company, The, Needham Heights, Mass. Ladies' underwear, corsets, brassières, etc. 273,450, renewed Aug. 5, 1950. O. G. Nov. 14. Class 39.

Caswell, Geo. W., Co., San Francisco, Calif. Coffee. 273,770, renewed Aug. 12, 1950. O. G. Nov. 14. Class 46.

Chemical Foundation, Incorporated, The: *See*—
Bensmann, Hermann.

Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Cravats. 279,085, renewed Jan. 6, 1951. O. G. Nov. 14. Class 39.

Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. 279,699, renewed Jan. 20, 1951. O. G. Nov. 14. Class 42.

Chuck, Dr. F. Y., Research Laboratories: *See*—
Chuck, Faw Y.

Chuck, Faw Y., doing business as Dr. F. Y. Chuck Research Laboratories, San Francisco, Calif. Vitamin and protein concentrate feed supplement. 533,408, Nov. 14; Serial No. 575,626, published June 27, 1950. Class 46.

Ciba Limited, Basel, Switzerland. Cleaning, cleansing and detergent chemical compounds. 533,437–8, Nov. 14; Serial Nos. 580,921–2, published Aug. 15, 1950. Class 52.

Cincinnati Mine Machinery Co., The, Cincinnati, Ohio. Cutter chain, cutter-chain sprockets, cutter-head shoes, etc. 533,490, Nov. 14; Serial No. 589,830, published Aug. 1, 1950. Class 23.

Clark Equipment Company, Buchanan, Mich. Power operated industrial, warehouse, and construction trucks. 533,279, Nov. 14; Serial No. 528,259, published Aug. 1, 1950. Class 19.

Clark, Robert H., doing business as Robert H. Clark Company, Beverly Hills, Calif. Bath salts. 533,278, Nov. 14; Serial No. 527,555, published Aug. 15, 1950. Class 51.

Clark, Robert H., Company: *See*—
Clark, Robert H.

Clean Home Products Corporation, assignor to Apex Products Corporation, to Clean Home Products, Inc., Chicago, Ill. Disinfectant and deodorant. 276,153, renewed Oct. 7, 1950. O. G. Nov. 14. Class 6.

Clean Home Products, Inc.: *See*—
Apex Products Corporation.
Clean Home Products Corporation.

Cling-surface Company, Buffalo, N. Y. Preservatives for transmission belt and ropes. 79,104, re-renewed Aug. 9, 1950. O. G. Nov. 14. Class 6.

Cluett, Peabody & Co. Inc., Troy, N. Y. Men's and boys' outer shirts. 533,441, Nov. 14; Serial No. 581,250, published Aug. 1, 1950. Class 39.

Cobbs, Frank, doing business as Cobbs' Manufacturing Company, Pontiac, Mich. Detergent preparation. 444,314, Nov. 14; Serial No. 513,556, published Aug. 15, 1950. Class 52.

Cobbs' Manufacturing Company: *See*—
Cobbs, Frank.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo., to Cole Chemical Company, St. Louis, Mo. Endocrine compounds, cerisal preparation, kava kava, etc. 274,159, renewed Aug. 19, 1950. O. G. Nov. 14. Class 18.

Colin Pharmacal Co., Inc., Brooklyn, N. Y. Medicinal preparation. 533,393–4, Nov. 14; Serial Nos. 573,166–7, published Aug. 15, 1950. Class 18.

Colorado Milling & Elev. Co., The, doing business as Jerome Milling & Elev. Co., Denver, Colo. Wheat flour. 533,419, Nov. 14; Serial No. 578,369, published June 20, 1950. Class 46.

Colson Corporation, The, Elyria, Ohio. Bicycles, strollers, material hauling trucks, etc. 533,395, Nov. 14; Serial No. 573,168, published Aug. 8, 1950. Class 19.

Columbia Protektosite Company Inc., Carlstadt, N. J. Children's toilet seats. 533,472, Nov. 14; Serial No. 585,992, published Aug. 15, 1950. Class 13.

Comfort Manufacturing Company, Chicago, Ill. Saponaceous compounds, shaving creams, shaving sticks, etc. 284,080–1, June 16, 1931. Republished Nov. 14. Classes 51 and 52.

Commercial Fertilizer Co., Montgomery, Ala. Fertilizers. 78,690, July 5, 1910. Corrected. O. G. Nov. 14. Class 10.

Commercial Solvents Corporation, New York, N. Y. Insecticides. 533,480, Nov. 14; Serial No. 588,551, published Aug. 15, 1950. Class 6.

Consolidated Tea Company, Inc., to Adolph Goldmark & Sons, Corp., New York, N. Y. Candy. 277,875, renewed Dec. 2, 1950. O. G. Nov. 14. Class 46.

Continental Baking Company, Wilmington, Del., and New York, N. Y. Bread. 274,904, Sept. 9, 1930. Republished Nov. 14. Class 46.

Continental Baking Company, Wilmington, Del., and New York, N. Y. Cake. 277,784, Nov. 25, 1930. Republished Nov. 14. Class 46.

Cosmos Shoe Co. Inc., New York, N. Y. Ladies' shoes. 533,481, Nov. 14; Serial No. 588,744, published Aug. 15, 1950. Class 39.

Crescent Belt Fastener Company, to Crescent Belt Fastener Company, Inc., New York, N. Y. Fasteners, plates, clamps, and rivets. 79,107, re-renewed Aug. 9, 1950. O. G. Nov. 14. Class 13.

Crescent Belt Fastener Company, Inc.: *See*—
Crescent Belt Fastener Company.

Crompton Company, Crompton, R. I. Fabrics in the piece. 533,493, Nov. 14; Serial No. 590,218, published Aug. 15, 1950. Class 42.

Crotty Corporation, Quincy, Mich. Fenderwelting. 533,485, Nov. 14; Serial No. 589,306, published July 18, 1950. Class 35.

Crown Products Company: *See*—
Bone, William H.

Curtis Lighting, Inc., Chicago, Ill. Light-diffusing screens for reflectors, lighting fixtures, etc. 276,590, renewed Oct. 21, 1950. O. G. Nov. 14. Class 34.

Curtis-Stephens-Embry Co., Inc., Reading, Pa. Men's, women's and children's shoes. 533,473, Nov. 14; Serial No. 586,269, published July 11, 1950. Class 39.

Danenberg, Danny: *See*—
Danenberg, J. S.

Danenberg, J. S., doing business as Danny Danenberg, El Centro, Calif. Fresh vegetables. 533,453, Nov. 14; Serial No. 582,418, published June 20, 1950. Class 46.

Dargan Lumber Manufacturing Company, Conway, S. C. Lumber. 533,525, Nov. 14; Serial No. 580,718. Class 12.

Davenport, Gertrude, Inc., New York, N. Y. Wearing apparel. 533,429, Nov. 14; Serial No. 579,672, published July 11, 1950. Class 39.

Davenport, Gertrude, Inc., New York, N. Y. Wearing apparel. 533,430, Nov. 14; Serial No. 579,673, published Aug. 15, 1950. Class 39.

Davis Paint Company, Kansas City, Mo. Linseed oil, turpentine, ready-mixed oil paints, etc. 533,322, Nov. 14; Serial No. 550,495, published Aug. 8, 1950. Class 16.

Dental Pharmaceutical Corporation of America, Chicago, Ill. Ammoniated tooth paste, ammoniated tooth powder, and ammoniated mouth wash. 533,434, Nov. 14; Serial No. 580,469, published July 25, 1950. Class 51.

Desmond's, assignor to Desmond's, Inc., Los Angeles, Calif. Military caps. 444,308, Nov. 14; Serial No. 465,651, published July 10, 1945. Class 39.

Desmond's, Inc., assignee: *See*—
Desmond's.

Dick, A. B., Company: *See*—
Fuller, Louis E.

Dickson-Jenkins Manufacturing Company, Fort Worth, Tex., Men's and boys' pants and outer shirts and ladies' western style pants, etc. 533,313, Nov. 14; Serial No. 547,238, published Aug. 15, 1950. Class 39.

Dor-O-Matic Co., assignor, by mesne assignments, to Logan Engineering Co., Chicago, Ill. Door checks and door check parts. 533,349, Nov. 14; Serial No. 559,011, published Aug. 15, 1950. Class 13.

Dowler, W. Dent, Los Angeles, Calif. Educational toys. 533,511, Nov. 14; Serial No. 561,910. Class 22.

Draper Corporation, Portland, Maine, and Hopedale, Mass. Loom temples. 533,474, Nov. 14; Serial No. 586,687, published Aug. 8, 1950. Class 23.

Driesen, Meyer & Oronsky, New York, N. Y. Outer suits and overcoats for males. 190,487, Oct. 14, 1924. Canceled Oct. 13, 1950. O. G. Nov. 14.

Eagle-Picher Company, The, Cincinnati, Ohio. Diatomaceous earth. 533,309, Nov. 14; Serial No. 566,216, published Aug. 15, 1950. Class 12.

Eagle Roller Mill Co., New Ulm, Minn. Wheat flour, whole wheat flour, graham flour, etc. 533,277, Nov. 14; Serial No. 527,026, published June 20, 1950. Class 46.

Eberle Tanning Company, Westfield, Pa. Sole leather. 533,311, Nov. 14; Serial No. 546,834, published July 18, 1950. Class 1.

Ecker, Frederick H., doing business as Garvecol Company, Philadelphia, Pa. Leather friction dressing. 533,448, Nov. 14; Serial No. 582,077, published Aug. 15, 1950. Class 6.

Economy Specialty Co.: *See*—
Miele, John.

Electric Game Company, Inc., Holyoke, Mass. Board games. 533,506, Nov. 14; Serial No. 542,392. Class 22.

Escondido Orange Association, Escondido, Calif. Fresh citrus fruits. 533,318, Nov. 14; Serial No. 548,490, published June 20, 1950. Class 46.

Face Contour, Inc., New York, N. Y. Face lotions. 444,309, Nov. 14; Serial No. 490,240, published July 25, 1950. Class 51.

Fair, The, Chicago, Ill. Candy. 533,297, Nov. 14; Serial No. 536,372, published July 4, 1950. Class 46.

Fairclough & Gold, Inc., Boston, Mass. Textile fabric glass curtains. 533,482, Nov. 14; Serial No. 589,017, published Aug. 15, 1950. Class 42.

Faunce, Benjamin R., Riverside, N. J., to M. F. Faunce, Medford, N. J. Cough syrup. 273,542, renewed Aug. 5, 1950. O. G. Nov. 14. Class 18.

Faunce, Maude F.: *See*—
Faunce, Benjamin R.

Federal Rubber Company, The, Chicago, Ill., Cudahy, Wis., and Chicopee Falls, Mass., by United States Rubber Company, New York, N. Y. Vehicle tires, inner tubes, tire flaps, etc. 274,880, Sept. 9, 1930. Republished Nov. 14. Class 35.

Fisch and Company, Los Angeles, Calif. Men's, women's, and children's clothing. 533,391, Nov. 14; Serial No. 572,734, published June 27, 1950. Class 39.

Food Specialties, Inc., Indianapolis, Ind. Peanut butter and salad dressings. 533,499, Nov. 14; Serial No. 493,336. Class 46.

Fort Stanwix Canning Company, Rome, to General Foods Corporation, New York, N. Y. Canned fruits and vegetables. 80,276, re-renewed Nov. 29, 1950. O. G. Nov. 14. Class 46.

Franklin Pottery (Inc.), Lansdale, Pa., to American Encaustic Tiling Company, Inc., New York, and Lansdale, Pa. Wall and floor tiles. 272,638, renewed July 8, 1950. O. G. Nov. 14. Class 12.

Frape, F. J., Limited, Kettering, Northhamptonshire, England. Men's, women's and children's boots, shoes and slippers. 533,347, Nov. 14; Serial No. 557,272, published Aug. 15, 1950. Class 39.

French, Edward R., doing business under the name Top Tunes Company, Ocean City, N. J. Publicizing original songs submitted by amateurs, etc. 533,497, Nov. 14; Serial No. 559,961, published Aug. 15, 1950. Class 101.

Fretz, William F., & Son, Doylestown, Pa. Trousers for men. 533,447, Nov. 14; Serial No. 581,786, published Aug. 8, 1950. Class 39.

Frosty Manors, Inc., St. Louis, Mo. Ice cream. 533,381, Nov. 14; Serial No. 569,000, published June 27, 1950. Class 46.

Fruit Tree Pollen Supplies Co.: *See*—
Antles, Leo C.

Fuller, Louis E., New York, N. Y., to A. B. Dick Company, Niles, Ill. Stencil-paper and stencils. 80,310, renewed Dec. 6, 1950. O. G. Nov. 14. Class 37.

Fulton Specialty Co., Elizabeth, N. J. Stamp pads and rubber stamp ink. 533,291, Nov. 14; Serial No. 533,295, published Aug. 15, 1950. Class 11.

Galax Knitting Company, Incorporated, Galax, Va. Men's, women's and children's hosiery. 533,290, Nov. 14; Serial No. 533,157, published Aug. 1, 1950. Class 39.

Gallin, Paul G., Co., New York, N. Y. Leather shoes, military uniforms, hosiery, etc. 533,442, Nov. 14; Serial No. 581,258, published Aug. 15, 1950. Class 39.

Gamble-Skogmo, Inc., Minneapolis, Minn. Automobile seat covers. 533,468, Nov. 14; Serial No. 584,489, published Aug. 8, 1950. Class 19.

Garvecol Company: *See*—
Ecker, Frederick H.

General Foods Corporation: *See*—
Fort Stanwix Canning Company.

General Time Corporation: *See*—
Western Clock Company.

Gerber & Co., Inc., New York, N. Y. Cheese. 279,643, renewed Jan. 20, 1951. O. G. Nov. 14. Class 46.

Gilbert & Barker Manufacturing Company, West Springfield, Mass. Combined tank and pump outfits of the self-measuring type for handling oils and the like. 275,440, renewed Sept. 23, 1950. O. G. Nov. 14. Class 26.

Gilbert Originals, Inc., Chicago, Ill. Women's and girls' coats, suits, slacks, etc. 533,341, Nov. 14; Serial No. 556,434, published Aug. 1, 1950. Class 39.

Gilroy, G. Harold, doing business as Belvidere Laboratories, Belvidere, Ill. Preparation in paste form for polishing metal, silverware, glass, etc. 533,509, Nov. 14; Serial No. 553,359. Class 4.

Glaser Bros. Inc., St. Louis, Mo. Men's and boys' trousers, jackets, and outer shirts, and ladies' slacks. 533,314, Nov. 14; Serial No. 547,254, published June 27, 1950. Class 39.

Glen Raven Cotton Mills, to Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Cotton piece goods. 279,711, renewed Jan. 20, 1951. O. G. Nov. 14. Class 42.

Glen Raven Cotton Mills, Inc.: *See*—
Glen Raven Cotton Mills.

Golden State Company, Ltd.: *See*—
Golden State Milk Products Company.

Golden State Milk Products Company, to Golden State Company, Ltd., San Francisco, Calif. Butter. 275,086, renewed Sept. 16, 1950. O. G. Nov. 14. Class 46.

Goldmark, Adolph, & Son, Corp.: *See*—
Consolidated Tea Company, Inc.

Gomco Surgical Manufacturing Corp., Buffalo, N. Y. Surgical drainage pumps. 533,305, Nov. 14; Serial No. 545,475, published July 25, 1950. Class 44.

Gompes, Henri S., to Ruth Gompes, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 276,026, renewed Oct. 7, 1950. O. G. Nov. 14. Class 51.

Gompes, Ruth: *See*—
Gompes, Henri S.

Grady-Travers Company, Inc., The: *See*—
Reid, Alexander F.

Great American Tea Company, The, New York, N. Y. Chocolate flavored syrup. 533,323, Nov. 14; Serial No. 551,009, published June 27, 1950. Class 46.

Greenebaum, J., Tanning Co., Chicago, Ill. Various kinds of leathers. 533,283, Nov. 14; Serial No. 529,048, published July 11, 1950. Class 1.

Gude's, Inc., Los Angeles, Calif. Shoes. 274,044, renewed Aug. 19, 1950. O. G. Nov. 14. Class 39.

Guilford Hosiery Mills, High Point, N. C. Ladies', men's and children's hosiery. 533,319, Nov. 14; Serial No. 549,380, published Nov. 29, 1949. Class 39.

Gulf Distributing Company: *See*—
Gulf Vegetable and Fruit Company.

Gulf Vegetable & Fruit Company, to Gulf Vegetable and Fruit Company, Inc., also doing business as Gulf Distributing Company, Weslaco, Tex. Fresh citrus fruits. 257,462, renewed June 11, 1949. O. G. Nov. 14. Class 46.

Gulf Vegetable and Fruit Company, Inc.: *See*—
Gulf Vegetable & Fruit Company.

Haase, Wilbert W., Co., Forest Park, Ill. Burial vaults. 533,495, Nov. 14; Serial No. 591,925, published Aug. 15, 1950. Class 2.

Haase, Wilbert W., Co., Forest Park, Ill. Asphaltic sealing composition. 533,512, Nov. 14; Serial No. 564,568. Class 12.

Hales & Hunter Co., Chicago, Ill. Feed for hogs, cattle, horses, etc. 533,308, Nov. 14; Serial No. 546,767, published June 20, 1950. Class 46.

Hal-Gan Products, Inc., Elm Grove, Wis. Lawn mowers. 533,435, Nov. 14; Serial No. 580,591, published June 6, 1950. Class 23.

Hall Brothers (Whitefield) Limited, Whitefield, near Manchester, England. Medicated sweetmeats. 274,476, renewed Aug. 26, 1950. O. G. Nov. 14. Class 18.

Harding, Milo, Company, Los Angeles, Calif. Slip-sheeter. 533,358, Nov. 14; Serial No. 562,656, published Aug. 1, 1950. Class 23.

Haythornthwaite & Sons Limited, Burnley, England. Cotton piece goods. 533,396, Nov. 14; Serial No. 573,547, published Aug. 1, 1950. Class 42.

Hazleton Macaroni Co.: *See*—
Amerise, William.

Hendel, Hyman, New York, N. Y. Men's and boys' necktles, mufflers, and handkerchiefs in sets. 274,173, renewed Aug. 19, 1950. O. G. Nov. 14. Class 39.

Hercules Steel Products Corporation, Galion, Ohio. Automotive dump bodies. 533,309, Nov. 14; Serial No. 546,770, published Aug. 8, 1950. Class 19.

Hickok Manufacturing Co. Inc., Rochester, N. Y. Braces, apparel belts and garters. 533,296, Nov. 14; Serial No. 538,252, published June 27, 1950. Class 39.

Hills Brothers Company, The, New York, N. Y. Granulated cocoanut. 279,722, renewed Jan. 20, 1951. O. G. Nov. 14. Class 46.

Hipaway Manufacturing Company, Swissvale, Pa. Cast aluminum exerciser. 533,275, Nov. 14; Serial No. 517,910, published Aug. 15, 1950. Class 44.

His Majesty, Inc., Poughkeepsie, N. Y. Neckties. 533,463, Nov. 14; Serial No. 584,197, published Aug. 8, 1950. Class 39.

Hoe, R., & Co., Inc., New York, N. Y. Rotary printing presses. 533,342, Nov. 14; Serial No. 556,443, published June 27, 1950. Class 23.

Hoffman-La Roche Chemical Works, The, New York, N. Y., to Hoffman-La Roche Inc., Nutley, N. J. Remedy for cutaneous diseases. 80,424, re-renewed Dec. 20, 1950. O. G. Nov. 14. Class 18.

Hoffman-La Roche Inc.: *See*—
Hoffman-La Roche Chemical Works, The.

Holo-Krome Screw Corporation, The, Hartford, to The Holo-Krome Screw Corporation, West Hartford, Conn. Screws. 277,346, renewed Nov. 11, 1950. O. G. Nov. 14. Class 13.

Horner, Adolph, doing business as Savoye Specialty Co., New York, N. Y. Liquid shaving cream, and beard softener. 533,517, Nov. 14; Serial No. 574,146. Class 51.

Imex Corporation, Philadelphia, Pa. Vegetable wax. 533,410, Nov. 14; Serial No. 576,642, published Aug. 15, 1950. Class 6.

Imperial Textile Co., of New York, Inc., New York, N. Y. Cotton and rayon piece goods. 533,405, Nov. 14; Serial No. 574,910, published Aug. 15, 1950. Class 42.

Impervious Varnish Company, Pittsburgh, Pa. Ready-mixed paints, paint enamels, lacquers, paste paints, etc. 276,989, renewed Nov. 4, 1950. O. G. Nov. 14. Class 16.

Indianapolis Glove Company, Indianapolis, Ind. Work gloves and work mittens. 347,176, June 15, 1937. Canceled Oct. 11, 1950. O. G. Nov. 14.

Indianapolis Glove Company, Indianapolis, Ind. Work gloves and work mittens. 500,909, July 6, 1948. Canceled Oct. 11, 1950. O. G. Nov. 14.

Indoor Gardener, Inc., The, West Hempstead, N. Y. Florists' products. 533,343, Nov. 14; Serial No. 556,445, published Aug. 15, 1950. Class 1.

International Accordion Manufacturing Company, East Detroit, Mich. Accordions. 533,379, Nov. 14; Serial No. 568,735, published July 25, 1950. Class 36.

International Acheson Graphite Co., Niagara Falls, N. Y., to Acheson Colloids Corporation, Port Huron, Mich. Lubricants. 79,915, re-renewed Oct. 18, 1950. O. G. Nov. 14. Class 15.

Jackson and Church Company, Saginaw, Mich. Coal, oil, and gas-fired furnaces. 533,518, Nov. 14; Serial No. 575,472. Class 34.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfumes. 533,380, Nov. 14; Serial No. 568,801, published Aug. 15, 1950. Class 51.

Jerome Milling & Elev. Co.: *See*—
Colorado Milling & Elev. Co., The.

Johnson, Gordon, Company, Kansas City, Mo. Poultry picking machines, and machines for stripping leaves from trees and shrubs. 533,502, Nov. 14; Serial No. 514,277. Class 23.

Jones, C. Walker, Company, Philadelphia, Pa. Textile coverings for rollers. 533,432, Nov. 14; Serial No. 580,368, published June 27, 1950. Class 23.

Jordan Mills, Inc.: *See*—
Perkins Hosiery Mills.

K Cookie Dough Co., Freeport, Ill. Prepared pie crust dough and cookie dough. 533,312, Nov. 14; Serial No. 547,128, published June 27, 1950. Class 46.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 276,244, Oct. 14, 1930. Republished Nov. 14. Class 39.

Kehoe Preserving Co., Clay City, Ind. Canned stuffed green peppers, canned pimientos, etc. 533,320, Nov. 14; Serial No. 549,448, published June 27, 1950. Class 46.

Kimble, Harry E., Albuquerque, N. Mex. Tooth powder. 275,220, Sept. 16, 1930. Republished Nov. 14. Class 51.

King Candy Company, Fort Worth, Tex. Candy. 533,328, Nov. 14; Serial No. 553,286, published July 4, 1950. Class 46.

Kingsley Fabrics, Inc.: *See*—
Stein, S., & Co.

Kirby, Block & Fischer, Inc., New York, N. Y. Sheets pillowcases, blankets, and bedspreads. 277,541, renewed Nov. 18, 1950. O. G. Nov. 14. Class 42.

Kirby, Block & Fischer, Inc., New York, N. Y. Clothing. 278,623, renewed Dec. 23, 1950. O. G. Nov. 14. Class 39.

Kirby Lumber Corporation, Houston, Tex. Lumber products. 533,315, Nov. 14; Serial No. 547,558, published Aug. 8, 1950. Class 12.

Klem Chemicals, Inc., Dearborn, Mich. Liquid non-abrasive cleaning preparations. 533,284, Nov. 14; Serial No. 529,427, published Aug. 15, 1950. Class 52.

Kronstadt, Max, doing business as Bristol Seamless Ring Co., to Bristol Seamless Ring Company, New York, N. Y. Finger rings. 274,320, renewed Aug. 26, 1950. O. G. Nov. 14. Class 28.

Lackawanna Products Company: *See*—
Schiffhauer, Gerard G.

Larned Company, The, Detroit, Mich., assignor to The Larned Corporation, to Whitehall Pharmacal Company, New York, N. Y. Medical preparation. 275,571, renewed Sept. 23, 1950. O. G. Nov. 14. Class 18.

Larned Corporation, The, assignee: *See*—
Larned Company, The.

Lawrence Products Company, Inc., Attalla, Ala. Cotton rugs. 533,494, Nov. 14; Serial No. 590,227, published Aug. 15, 1950. Class 42.

Layton, John, & Co., Ltd., London, England. Liquid eggs. 272,896, renewed July 15, 1950. O. G. Nov. 14. Class 46.

Leston Company, St. Louis, Mo. Prepared mustard and prepared mustard with horseradish, mayonnaise, etc. 533,462, Nov. 14; Serial No. 584,137, published July 4, 1950. Class 46.

Levine Produce Company, David City, Nebr. Dressed poultry and fresh eggs. 533,374, Nov. 14; Serial No. 567,590, published June 27, 1950. Class 46.

Lionel Trading Co. Inc., to Parfums Corday, Inc., New York, N. Y. Perfumes, toilet waters, face lotions, face creams, etc. 273,939, renewed Aug. 19, 1950. O. G. Nov. 14. Class 51.

Lish Brothers, New York, N. Y. Ladies' hats. 533,431, Nov. 14; Serial No. 580,065, published Aug. 8, 1950. Class 39.

Logan Engineering Co.: *See*—
Dor-O-Matic Co.

Logan-Long Company, The: *See*—
Amalgamated Roofing Company.

Loma Linda Food Company, Arlington, Calif. Gravy mix. 533,519, Nov. 14; Serial No. 576,976. Class 46.

Lovable Brassiere Co., The, Atlanta, Ga. Ladies' scarfs. 533,444, Nov. 14; Serial No. 581,601, published June 27, 1950. Class 39.

Lucas, John, & Company, Inc., Philadelphia, Pa. Varnishes and varnish stains. 533,351, Nov. 14; Serial No. 560,120, published Aug. 8, 1950. Class 16.

Lyle, Abram, & Sons, Limited, to Tate & Lyle, Limited, London, England. Syrup. 35,185, re-renewed Oct. 2, 1950. O. G. Nov. 14. Class 46.

Malted Cereals Co., The, to Maltex Company, Burlington, Vt. Flour, bread, biscuit, crackers, and cereals. 35,599, re-renewed Dec. 18, 1950. O. G. Nov. 14. Class 46.

Maltex Company: *See*—
Malted Cereals Co., The.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 533,464–5, Nov. 14; Serial Nos. 584,284–5, published Aug. 8, 1950. Class 39.

Marlboro Shirt Company, Inc., Baltimore, Md. Men's and boys' shirts, T shirts, slacks, etc. 533,428, Nov. 14; Serial No. 579,545, published June 27, 1950. Class 39.

Mason City Brick & Tile Company, doing business as Redfield Brick & Tile Co., Mason City, Iowa. Building tile, face and common brick, and drain tile. 533,373, Nov. 14; Serial No. 567,324, published Aug. 8, 1950. Class 12.

McGill Manufacturing Company, Inc., Valparaiso, Ind. Incandescent lamp coloring fluid. 533,321, Nov. 14; Serial No. 549,559, published Aug. 15, 1950. Class 6.

McGreevey, Werring & Howell, Inc., New York, N. Y. Men's outer shirts. 533,362, Nov. 14; Serial No. 564,137, published Aug. 1, 1950. Class 39.

McKeon Canning Co., Inc., Burbank, Calif. Canned Italian style tomatoes. 444,317, Nov. 14; Serial No. 522,475, published Mar. 15, 1949. Class 46.

McLellan, E. W., Co., San Francisco, Calif. Natural flowers. 533,346, Nov. 14; Serial No. 557,145, published July 25, 1950. Class 1.

Meinecke & Company, New York, N. Y. Clinical male urinals, dressing basins, paper mortuary gowns, etc. 533,303, Nov. 14; Serial No. 541,938, published July 25, 1950. Class 44.

Melville Shoe Corporation, New York, N. Y. Shoes. 276,389, Oct. 21, 1930. Republished Nov. 14. Class 39.

Mendelson, Albert A., Portland, Oreg. Neckties. 533,425, Nov. 14; Serial No. 579,338, published Aug. 8, 1950. Class 39.

Middleburg Tanning Corporation, Philadelphia, Pa. Sole leather. 533,382, Nov. 14; Serial No. 569,633, published July 11, 1950. Class 1.

Miele, John, doing business as Economy Specialty Co., Jersey City, N. J. Detergent. 533,426, Nov. 14; Serial No. 579,339, published Aug. 15, 1950. Class 52.

Miele, John, doing business as Economy Specialty Co., Jersey City, N. J. Detergent. 533,427, Nov. 14; Serial No. 579,341, published Aug. 15, 1950. Class 52.

Miller Ventilated Awning Co., Inc., Montgomery, Ala. Sheet metal awnings. 533,527, Nov. 14; Serial No. 590,939. Class 12.

Modell, Henry, & Co., Inc., New York, N. Y. Tents; tarpalins; and tenting and camping outfits. 533,301, Nov. 14; Serial No. 541,161, published July 25, 1950. Class 50.

Monarch Machine Tool Co., The, Sidney, Ohio. Turning machine. 444,310, Nov. 14; Serial No. 498,020, published June 6, 1950. Class 23.

Monroe Manufacturing Co., Inc., Monroe, La. Men's and boys' slacks. 444,313, Nov. 14; Serial No. 511,755, published Aug. 1, 1950. Class 39.

Morten Milling Company: *See*—
Tex-O-Kan Flour Mills Co.

Morton Manufacturing Corporation, doing business under the name and style of Snow White Products Co., Lynchburg, Va. Make-up cream; hair dressing; bleaching cream; etc. 533,273, Nov. 14; Serial No. 511,030, published Aug. 8, 1950. Class 51.

Mylan Manufacturing Co., Inc., New York, N. Y. Men's and boys' shirts. 533,466, Nov. 14; Serial No. 584,370, published Aug. 8, 1950. Class 39.

National Pressure Cooker Company, Eau Claire, Wis. Pressure cookers and pressure canners. 533,446, Nov. 14; Serial No. 581,752, published Aug. 15, 1950. Class 13.

Nekoosa-Edwards Paper Company, Port Edwards, Wis. Wrapping and printing paper and converting papers. 278,724, renewed Dec. 30, 1950. O. G. Nov. 14. Class 37.

Newell Gutradt Company, San Francisco, Calif. Soap. 533,420, Nov. 14; Serial No. 578,613, published Aug. 15, 1950. Class 52.

New York Merchandise Co., Inc., New York, N. Y. Combs. 273,415, renewed Aug. 5, 1950. O. G. Nov. 14. Class 40.

Noble Chemical Corporation, Chicago, Ill. Chemical cleaning compounds. 427,656, Feb. 18, 1947. Canceled Sept. 29, 1950. O. G. Nov. 14.

North & Judd Manufacturing Company, New Britain, Conn. Harness rings, hooks and loops, spurs, etc. 79,441, re-renewed Sept. 6, 1950. O. G. Nov. 14. Class 3.

North American Trading & Import Company, The, Philadelphia, Pa. Molasses. 274,902, Sept. 9, 1930. Republished Nov. 14. Class 46.

Norton Company, Worcester, Mass. Refractory bricks, blocks and plates, etc. 533,307, Nov. 14; Serial No. 546,123, published Aug. 15, 1950. Class 12.

Nyanza Color & Chemical Co., Inc., New York, N. Y. Chemical compounds. 279,808, renewed Jan. 27, 1951. O. G. Nov. 14. Class 6.

Oakland Fur Dyeing Co., Inc., Brooklyn, N. Y. Dyed rabbit skins and pelts. 533,355, Nov. 14; Serial No. 561,973, published Aug. 15, 1950. Class 1.

Oceana Imports Inc., New York, N. Y. Ladies' and men's berets. 533,458, Nov. 14; Serial No. 583,281, published July 25, 1950. Class 39.

Ohio Seamless Tube Company, The, Shelby, Ohio. Seamless steel tubing. 533,404, Nov. 14; Serial No. 574,856, published Aug. 15, 1950. Class 13.

Olmstead, Olaf J., Janesville, Wis. Clips for supporting furring and the like. 533,510, Nov. 14; Serial No. 559,238. Class 12.

Oshkosh Brewing Company: *See*—
Oshkosh Brewing Company, The.

Oshkosh Brewing Company, The, to Oshkosh Brewing Company, Oshkosh, Wis. Beer. 79,442, re-renewed Sept. 6, 1950. O. G. Nov. 14. Class 48.

Pabst Brewing Company: *See*—
Pabst Corporation.

Pabst Corporation, Milwaukee, Wis., to Pabst Brewing Company, Chicago, Ill. Malt syrup. 273,506, renewed Aug. 5, 1940. O. G. Nov. 14. Class 46.

Pacific Lumber Company, The: *See*—
Pacific Lumber Company of Illinois, The.

Pacific Lumber Company of Illinois, The, Chicago, Ill., to The Pacific Lumber Company, San Francisco, Calif. Lumber and millwork. 275,724, renewed Sept. 30, 1950. O. G. Nov. 14. Class 12.

Pacific Mills, Boston, Mass., and New York, N. Y. Piece goods. 533,488, Nov. 14; Serial No. 589,524, published Aug. 15, 1950. Class 42.

Pacolet Manufacturing Company, Pacolet, S. C. Cotton piece goods. 533,403, Nov. 14; Serial No. 574,590, published Aug. 15, 1950. Class 42.

Pan American Flour Mills: *See*—
Texas Star Flour Mills.

Parfums Corday, Inc.: *See*—
Lionel Trading Co. Inc.

Parker-Kalon Corporation, New York, N. Y. Self-tapping screws, drive screws, screw-nails and masonry nails. 533,476, Nov. 14; Serial No. 586,985, published Aug. 15, 1950. Class 13.

Parker, Ralph D., doing business under the name and style of Snow Joe Company, Newark, N. J. Emergency skid chain applying tool. 533,484, Nov. 14; Serial No. 589,227, published July 18, 1950. Class 23.

Peacock Products: *See*—
Peacock, Robert.

Peacock, Robert, doing business as Peacock Products, St. Petersburg, Fla. Composite garment hangers and article holders. 533,526, Nov. 14; Serial No. 582,854. Class 50.

Peake, Graham B., New York, N. Y. Women's scarves. 533,457, Nov. 14; Serial No. 582,995, published July 25, 1950. Class 39.

Pease Woodwork Company, Inc., Cincinnati, Ohio. Prefabricated sectional houses. 533,520, Nov. 14; Serial No. 577,548. Class 12.

Peerless Carbon Black Company, The: *See*—
Binney & Smith Company.

Peerless Rubber Manufacturing Company, by United States Rubber Company, New York, N. Y. Rubber belting, gaskets, hose, etc. 34,974, July 31, 1900. Republished Nov. 14. Class 35.

Perkins Hosiery Mills, to Jordan Mills, Inc., Columbus, Ga. Knitted and woven fabrics. 279,698, renewed Jan. 20, 1951. O. G. Nov. 14. Class 42.

Perry Company, The, Camilla, Ga. Salted peanuts. 533,507, Nov. 14; Serial No. 545,642. Class 46.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 533,361, Nov. 14; Serial No. 563,988, published Aug. 15, 1950. Class 1.

Phillips, Ann, New York, N. Y. Ladies' and misses' cuffs, dickeys, blouses, blousettes, etc. 533,353, Nov. 14; Serial No. 561,942, published June 6, 1950. Class 39.

Phillips' Patents Limited, London, England. India-rubber plates or pads for attachments to the soles or heels of boots and shoes. 276,534, renewed Oct. 21, 1950. O. G. Nov. 14. Class 39.

Phillips Petroleum Company, Bartlesville, Okla. Carbon compounding material. 533,407, Nov. 14; Serial No. 575,425, published Aug. 15, 1950. Class 1.

Phipps Products Inc., Boston, Mass. Washing preparation. 533,274, Nov. 14; Serial No. 514,221, published Aug. 15, 1950. Class 52.

Pillopak Company: *See*—
Behr, Philip W.

Piqua Hosiery Co., The, to The Atlas Underwear Company, Piqua, Ohio. Knitted undershirts, drawers, and union suits. 79,690, re-renewed Sept. 27, 1950. O. G. Nov. 14. Class 39.

Pittsburgh Waterproof Company, Pittsburgh, Pa. Table felt. 533,521, Nov. 14; Serial No. 578,819. Class 50.

Plastic Sheeting Company, Portland, Oreg. Plastic fishing creels. 533,523, Nov. 14; Serial No. 579,832. Class 22.

Plibrico Jointless Firebrick Company, Chicago, Ill. Castable refractory material. 533,310, Nov. 14; Serial No. 546,787, published Aug. 8, 1950. Class 12.

Point Adams Packing Co., Hammond, Oreg. Canned salmon, tuna, and crabmeat. 533,289, Nov. 14; Serial No. 532,492, published Dec. 6, 1949. Class 46.

Pollak, Henry, Inc., New York, N. Y. Hat braids. 533,475, Nov. 14; Serial No. 586,878, published July 25, 1950. Class 40.

Pride O' Texas Citrus Association, Mission, Tex. Fresh citrus fruit. 533,515, Nov. 14; Serial No. 570,721. Class 46.

Pringle Johnston Imports, Ltd., New York, N. Y. Men's and women's knitted woolen sweaters; women's woolen dresses; etc. 533,281, Nov. 14; Serial No. 528,478, published Aug. 1, 1950. Class 39.

Pure Oil Company, The, Chicago, Ill. Anti-freeze, rust inhibitor, and combined anti-freeze and rust inhibitor. 533,280, Nov. 14; Serial No. 528,374, published Aug. 8, 1950. Class 6.

Pure Oil Company, The, Chicago, Ill. Automotive exhaust pipe; automotive exhaust muffler; automotive exhaust tail pipe; etc. 533,376, Nov. 14; Serial No. 567,925, published June 27, 1950. Class 23.

Putney, Stephen, Shoe Co., Richmond, Va. Boots and shoes. 533,372, Nov. 14; Serial No. 567,313, published Aug. 1, 1950. Class 39.

Q-Tips Inc., Long Island City, N. Y. Cold cream for infants. 533,375, Nov. 14; Serial No. 567,711, published Aug. 15, 1950. Class 51.

Quality Prepared Flour Company: *See*—
Stern, Morris.

Quartex Corporation, Chicago, Ill. Roofing granules of stone. 533,339, Nov. 14; Serial No. 554,920, published Aug. 15, 1950. Class 1.

Rawls, James W., doing business under the trade name Golden State Supply, Los Angeles, Calif. Pressing oil for the hair. 533,406, Nov. 14; Serial No. 575,017, published Aug. 15, 1950. Class 51.

Redfield Brick & Tile Co.: *See*—
Mason City Brick & Tile Company.

Reid, Alexander F., to The Grady-Travers Company, Inc., New York, N. Y. Braided cotton sash-cord, hop-twine, and mattress-twine. 34,328, re-renewed Mar. 20, 1950. O. G. Nov. 14. Class 7.

Reid, Alexander F., to The Grady-Travers Company, Inc., New York, N. Y. Braided sash-cords and flax thread or gilling-thread. 34,329, re-renewed Mar. 20, 1950. O. G. Nov. 14. Class 7.

Resisto Tie Co., The, Baltimore, Md. Neckties and scarfs. 533,443, Nov. 14; Serial No. 581,539, published June 27, 1950. Class 39.

Revere Copper and Brass Incorporated, New York, N. Y. Nonferrous metals and alloys thereof. 279,265, renewed Jan. 13, 1951. O. G. Nov. 14. Class 14.

Robinson Manufacturing Company, Elizabeth City, N. C. Ladies' hosiery. 533,460, Nov. 14; Serial No. 584,015, published Aug. 15, 1950. Class 39.

Rosemary Manufacuring Company, Roanoke Rapids, N. C. Dry goods. 54,211, June 19, 1906. Canceled Oct. 5, 1950. O. G. Nov. 14.

Rosenblatt, D. B., Incorporated, Minneapolis, Minn. Men's overcoats. 422,477, July 23, 1946. Canceled Oct. 11, 1950. O. G. Nov. 14.

Rotel Chemical Corp., New York, N. Y. Electrical contact cleaning compound. 533,399, Nov. 14; Serial No. 573,973, published Aug. 15, 1950. Class 52.

Rowe Manufacturing Co., Inc., Whippany, N. J. Coin operated automatic merchandise and beverage vending machines. 533,276, Nov. 14; Serial No. 521,825, published June 6, 1950. Class 23.

Rubber & Plastics Compound Company, Inc., New York, N. Y. Cold setting waterproof cement. 533,417, Nov. 14; Serial No. 577,736, published Aug. 8, 1950. Class 12.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Toilet soap. 533,412–13, Nov. 14; Serial Nos. 576,987–8, published Aug. 15, 1950. Class 52.

Sagner's, A., Son, Baltimore, Md. Men's suits, trousers, sport coats, etc. 533,386, Nov. 14; Serial No. 570,232, published Aug. 15, 1950. Class 39.

Saval Company, Los Angeles, Calif. Control valves. 533,504, Nov. 14; Serial No. 530,963. Class 13.

Saville, J. J., & Company Limited, Sheffield, England. Tool-steel and steel in bar, rod, sheet, etc. forms. 77,401, re-renewed Apr. 5, 1950. O. G. Nov. 14. Class 14.

Saville, J. J., & Company Limited, Sheffield, England. Tool-steel and steel in bar, rod, sheet, etc. forms. 77,420, re-renewed Apr. 5, 1950. O. G. Nov. 14. Class 14.

Savoye Specialty Co.: *See*—
Horner, Adolph.

Sawyer Tanning Company, Napa, Calif. Leather. 533,348, Nov. 14; Serial No. 558,743, published July 25, 1950. Class 1.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. 533,421, Nov. 14; Serial No. 578,636, published Aug. 15, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. 533,459, Nov. 14; Serial No. 583,495, published Aug. 15, 1950. Class 18.

Schifthauer, Gerard G., doing business under the name and style of Lackawanna Products Company, Lackawanna, N. Y. Dog food base. 533,387, Nov. 14; Serial No. 570,438, published June 27, 1950. Class 46.

Schlumberger Well Surveying Corporation, Houston, Tex. Services rendered in connection with oil wells. 533,498, Nov. 14; Serial No. 585,954, published Aug. 15, 1950. Class 100.

Schwab, H. W., Textile Corp., New York, N. Y. Woolen piece goods. 533,414, Nov. 14; Serial No. 576,991, published Aug. 15, 1950. Class 42.

Schwartz, Melvin M., Madison, Wis. Greeting and announcement cards and publications. 433,737, Oct. 28, 1947. Republished Nov. 14. Class 38.

Sears, Roebuck and Co., Chicago, Ill. Livestock instruments. 533,388, Nov. 14; Serial No. 570,645, published Aug. 15, 1950. Class 44.

Security Shoe Supply Co.: *See*—
Weinstein, Leon.

Security Shoe Supply Company: *See*—
Weinstein, Leon.

Sharp & Dohme, Baltimore, Md., to Sharp & Dohme, Incorporated, Philadelphia, Pa. Remedy for the treatment of malaria. 79,610, re-renewed Sept. 26, 1950. O. G. Nov. 14. Class 18.

Sharp & Dohme, Incorporated: *See*—
Sharp & Dohme.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. 533,422, Nov. 14; Serial No. 578,830, published Aug. 15, 1950. Class 18.

Sharp, Tom C., doing business as Tom C. Sharp Drug Co., Nashville, Tenn. Medicinal preparation. 533,364, Nov. 14; Serial No. 564,658, published Aug. 15, 1950. Class 18.

Sharp, Tom C., Drug Co.: *See*—
Sharp, Tom C.

Shawmut Inc., Stoughton, Mass. Knitted outerwear. 533,293, Nov. 14; Serial No. 533,930, published July 11, 1950. Class 39.

Sherman, H. B., Manufacturing Company, Battle Creek, Mich. Hose couplings. 533,338, Nov. 14; Serial No. 554,726, published Aug. 15, 1950. Class 13.

Shrago, A. M., & Sons, Goldsboro, N. C. Negligee and work shirts. 533,292, Nov. 14; Serial No. 533,627, published July 25, 1950. Class 39.

Siegel, Morris, Wilkes-Barre, Pa. Canned vegetables and coffee. 533,449, Nov. 14; Serial No. 582,244, published June 27, 1950. Class 46.

Siegel, Morris, Wilkes-Barre, Pa. Canned vegetables and coffee. 533,450, Nov. 14; Serial No. 582,247, published June 27, 1950. Class 46.

Skinner Irrigation Company, The, Troy, Ohio. Sprayers, sprinklers and spray irrigation piping, etc. 533,306, Nov. 14; Serial No. 545,904, published Aug. 15, 1950. Class 13.

Slumber Bedding & Mattress Co., Inc., New York, N. Y. Box springs, mattresses, etc. 439,918, July 27, 1948. Canceled Oct. 11, 1950. O. G. Nov. 14.

Smith, A. M., & Company, Limited, Halifax, Nova Scotia, Canada. Canned, smoked and salted fish. 533,367, Nov. 14; Serial No. 565,970, published July 4, 1950. Class 46.

Smith, E. S., Company, Inc., Lakeland, Fla. Canned tangerine juice, canned grapefruit juice, canned orange juice, etc. 533,337, Nov. 14; Serial No. 554,431, published June 27, 1950. Class 46.

Smith, J. B., Shoe Company, Chicago, Ill. Men's and women's shoes. 533,304, Nov. 14; Serial No. 543,229, published Aug. 1, 1950. Class 39.

Smith, Lucius N., doing business as Whirler-Glide Mower Company, Montverde, Fla. Lawn mowers. 533,390, Nov. 14; Serial No. 572,463, published Aug. 1, 1950. Class 23.

Smucker, J. M., Co., The, Orrville, Ohio. Fruit preserves. 278,829, renewed Dec. 30, 1950. O. G. Nov. 14. Class 46.

Snow Joe Company: *See*—
Parker, Ralph D.

Snow White Products Co.: *See*—
Morton Manufacturing Corporation.

Société Nationale d'Etude et de Construction de Moteurs d'Aviation (S. N. E. C. M. A.), Paris, France. Engines and particularly aviation engines, gasoline motors, Diesel motors, etc. 444,315, Nov. 14; Serial No. 519,300, published June 6, 1950. Class 23.

Somay Products, Inc., Miami, Fla. Oil paint. 533,513, Nov. 14; Serial No. 569,019. Class 16.

Southern Coal Company, Inc., Memphis, Tenn. Coal. 533,516, Nov. 14; Serial No. 573,853. Class 1.

Southern Dyestuff Corporation, Charlotte, N. C. Dyestuffs and various chemicals. 533,329, Nov. 14; Serial No. 553,534, published Aug. 15, 1950. Class 6.

Southern Dyestuff Corporation, Charlotte, N. C. Various chemicals. 533,330–1, Nov. 14; Serial Nos. 553,536–7, published Aug. 15, 1950. Class 6.

Southern Dyestuff Corporation, Charlotte, N. C. Dyestuffs. 533,332, Nov. 14; Serial No. 553,538, published Aug. 15, 1950. Class 6.

Southern Dyestuff Corporation, Charlotte, N. C. Various chemicals. 533,333, Nov. 14; Serial No. 553,539, published Aug. 15, 1950. Class 6.

Southern Dyestuff Corporation, Charlotte, N. C. Dyestuffs. 533,334–5, Nov. 14; Serial Nos. 553,540–1, published Aug. 15, 1950. Class 6.

Southern Fertilizer & Chemical Company, Savannah, Ga. Fertilizers. 278,821, renewed Dec. 30, 1950. O. G. Nov. 14. Class 10.

Southern Pacific Milling Company, San Francisco, to Southern Pacific Milling Company, Santa Barbara, Calif. Dairy and poultry feed and grain. 278,983, renewed Jan. 6, 1951. O. G. Nov. 14. Class 46.

Spalding, A. G., & Bros., New York, N. Y., to A. G. Spalding & Bros. Inc., Chicopee, Mass. Tennis rackets. 275,109, renewed Sept. 16, 1950. O. G. Nov. 14. Class 22.

Spalding, A. G., & Bros. Inc.: *See*—
Spalding, A. G., & Bros.

Sperry Mfg. Co., Providence, R. I. Compact cases. 533,522, Nov. 14; Serial No. 579,565. Class 2.

Spray & Burgess Limited, Netherfield, England. Textile piece goods. 533,401, Nov. 14; Serial No. 574,167, published Aug. 15, 1950. Class 42.

Sprunance, Gilbert, Company, The, Philadelphia, Pa. Wax for polishing. 271,634, June 17, 1930. Republished Nov. 14. Class 16.

Sprusil, Charles J., Corona, N. Y. Hand protective composition. 533,415, Nov. 14; Serial No. 577,149, published Aug. 8, 1950. Class 6.

Standard Rate & Data Service, Inc., Chicago, Ill. Periodical publication. 272,605, renewed July 8, 1950. O. G. Nov. 14. Class 38.

Star Expansion Bolt Company, New York, N. Y. Twist drills. 533,377, Nov. 14; Serial No. 567,931, published Aug. 1, 1950. Class 23.

Stearns-Roger Manufacturing Company, The, Denver, Colo. Pulsation suppressing apparatus. 444,319, Nov. 14; Serial No. 523,433, published June 6, 1950. Class 23.

Stein, S., & Co., to Kingsley Fabrics, Inc., New York, N. Y. Woolen piece goods. 80,388, re-renewed Dec. 13, 1950. O. G. Nov. 14. Class 42.

Stern, Morris, doing business as Quality Prepared Flour Company, Detroit, Mich. Self-rising flour. 444,311, Nov. 14; Serial No. 506,784, published June 27, 1950. Class 46.

Stern, Sidney J., & Co., Chicago, Ill. Hosiery. 533,352, Nov. 14; Serial No. 560,939, published Feb. 28, 1950. Class 39.

Stet Chemical Company, South Bend, Ind. Radiator cleaner. 533,400, Nov. 14; Serial No. 573,991, published Aug. 15, 1950. Class 52.

Stichting Polynormbouw, Amsterdam, Holland. Prefabricated building structures and parts thereof. 533,324, Nov. 14; Serial No. 551,334, published Aug. 15, 1950. Class 12.

Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation. 533,471, Nov. 14; Serial No. 585,869, published Aug. 15, 1950. Class 18.

Svenska Karosseri Verkstäderna Aktiebolag, Katrineholm, Sweden. Folding wooden units. 533,402, Nov. 14; Serial No. 574,394, published Aug. 8, 1950. Class 12.

Tate & Lyle, Limited: *See*—
Lyle, Abram & Sons, Limited.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Benzene hexachloride, benzaldehyde, benzol, and benzoate of soda. 533,479, Nov. 14; Serial No. 588,335, published Aug. 15, 1950. Class 6.

Texas Star Flour Mills, doing business as Pan American Flour Mills, Dallas, Tex. Wheat flour. 533,359, Nov. 14; Serial No. 562,892, published Nov. 8, 1949. Class 46.

Tex-O-Kan Flour Mills Co., doing business as Morten Milling Company, Dallas, Tex. Wheat flour. 533,370, Nov. 14; Serial No. 566,670, published Aug. 29, 1950. Class 46.

Thomson-Porcelite Paint Co., Philadelphia, Pa. Liquid preparation for removing gloss from painted and enameled surfaces; etc. 533,501, Nov. 14; Serial No. 512,872. Class 16.

Timely Accessories, Inc., New York, N. Y. Scarfs. 533,317, Nov. 14; Serial No. 548,120, published Aug. 1, 1950. Class 39.

Top Tunes Company: *See*—
French, Edward R.

Topp Oil Chemical Co.: *See*—
Topp Oil & Supply Co.

Topp Oil & Supply Co., to Topp Oil Chemical Co., Milwaukee, Wis. Lemon hand soap. 275,779, renewed Sept. 30, 1950. O. G. Nov. 14. Class 52.

Trubenizing Process Corporation, New York, N. Y. Collars. 533,445, Nov. 14; Serial No. 581,692, published June 27, 1950. Class 39.

True, J. F., Dr., & Co., Inc., Auburn, Maine, to Dr. J. F. True & Co., Inc., Natick, Mass. Vermifuge and remedies for indigestion, biliousness, headache, etc. 80,092, re-renewed Nov. 1, 1950. O. G. Nov. 14. Class 18.

Tumbler, J. A., Laboratories, assignee: *See*—
Tumbler, Joseph A.

Tumbler, J. A., Laboratories, Inc.: *See*—
Tumbler, Joseph A.

Tumbler, Joseph A., assignor to J. A. Tumbler Laboratories, Inc., Baltimore, Md. Cleaner and polish. 273,546, renewed Aug. 5, 1950. O. G. Nov. 14. Class 4.

United States Gypsum Company, Chicago, Ill. Lime and plaster for construction purposes. 533,411, Nov. 14; Serial No. 576,726, published Aug. 8, 1950. Class 12.

United States Rubber Company: *See*—
Federal Rubber Company, The.
Peerless Rubber Manufacturing Company.

Victory Builders, assignor to Victory Builders & Lumber Co., Inc., Chicago, Ill. Prefabricated garages and the materials therefor. 533,340, Nov. 14; Serial No. 554,932, published Aug. 15, 1950. Class 12.

Victory Builders & Lumber Co., Inc., assignee: *See*—
Victory Builders.

Vogue Rubber Company, Chicago, Ill. White side-wall tire cleaner. 533,384, Nov. 14; Serial No. 570,136, published Aug. 15, 1950. Class 52.

Voorhees Rubber Mfg. Co. Inc., New York, N. Y. Rubber flooring in tile form. 533,514, Nov. 14; Serial No. 569,496. Class 12.

Wade, James D., doing business as Jim Wade & Company, Shreveport, La. Collar pins. 533,416, Nov. 14; Serial No. 577,349, published Aug. 15, 1950. Class 28.

Wade, Jim, & Company: *See*—
Wade, James D.

Wagner Brothers, Inc., Detroit, Mich. Metal anodes. 533,508, Nov. 14; Serial No. 551,211. Class 14.

Waldes Kohinoor, Inc., Long Island City, N. Y. Separable slide fasteners. 533,354, Nov. 14; Serial No. 561,961, published Aug. 15, 1950. Class 13.

Waldesbühl, Paul N., Aargau, Switzerland. Spoons and spatulas for surgical and pharmaceutical use. 533,327, Nov. 14; Serial No. 552,821, published Aug. 15, 1950. Class 44.

Wallerstein Company, Inc., New York, N. Y. Enzymatic preparation. 533,397, Nov. 14; Serial No. 573,579, published Aug. 15, 1950. Class 6.

Ward, A. T., Distributing Company: *See*—
Ward, A. T., Manufacturing Company, The.

Ward, A. T., Manufacturing Company, The, to A. T. Ward Distributing Company, Cincinnati, Ohio. Preparation for the treatment of corns, bunions, and callouses. 274,686, renewed Sept. 2, 1950. O. G. Nov. 14. Class 18.

Ward, Weldon M., New York, N. Y. Ventilated beach hats. 265,034, Dec. 10, 1929. Canceled Oct. 11, 1950. O. G. Nov. 14.

Washington Canners Cooperative, Vancouver, Wash. Canned fruits, frozen fresh fruits and frozen fresh berries. 533,316, Nov. 14; Serial No. 548,031, published June 27, 1950. Class 46.

Weinreich Brothers Company, New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. 533,467, Nov. 14; Serial No. 584,474, published Aug. 8, 1950. Class 28.

Weinstein, Leon, doing business as Security Shoe Supply Co., to Security Shoe Supply Company, St. Louis, Mo. Toe plates, heel plates, and braces for shoes. 278,509, renewed Dec. 23, 1950. O. G. Nov. 14. Class 13.

Western Clock Company, Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 271,938, June 17, 1930. Republished Nov. 14. Class 27.

West Virginia Pulp and Paper Company, New York, N. Y. Lignin prepared from liquors. 533,350, Nov. 14; Serial No. 559,392, published Aug. 15, 1950. Class 6.

Whirler-Glide Mower Company: *See*—
Smith, Lucius N.

Whitehall Pharmacal Company: *See*—
Larned Company, The.
Wyeth Chemical Company.

Wiener, Ben, and Bro., New York, N. Y. Boys' and young men's suits and overcoats. 533,326, Nov. 14; Serial No. 551,927, published June 28, 1949. Class 39.

Williams, Clark G., West Palm Beach, Fla. Laminated wood trusses, beams, ribs, etc. 444,318, Nov. 14; Serial No. 522,483, published Aug. 15, 1950. Class 12.

Wills, W. P., & Co., Inc., New York, N. Y. Woolen piece goods. 533,486, Nov. 14; Serial No. 589,355, published Aug. 15, 1950. Class 42.

Worcester Knitting Company, Worcester, Mass. Sweaters, jackets, suits, etc. 533,302, Nov. 14; Serial No. 541,902, published July 25, 1950. Class 39.

Wyeth Chemical Company, Wilmington, Del., to Whitehall Pharmacal Company, New York, N. Y. Medicinal preparation. 275,149, renewed Sept. 16, 1950. O. G. Nov. 14. Class 18.

Wyeth Incorporated, Philadelphia, Pa. Choline and inositol. 533,496, Nov. 14; Serial No. 594,166, published Aug. 8, 1950. Class 18.

Zimmerman, G. F. S., & Company, to The G. F. S. Zimmerman Co., Inc., Frederick, Md. Shutter-fasteners. 78,221, re-renewed May 31, 1950. O. G. Nov. 14. Class 13.

Zimmerman, G. F. S., Co., Inc., The: *See*—
Zimmerman, G. F. S., & Company.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Carbon compounding material. Phillips Petroleum Company. 533,407, Nov. 14; Serial No. 575,425, published Aug. 15, 1950.

Coal. The Philadelphia and Reading Coal and Iron Company. 533,361, Nov. 14; Serial No. 563,988, published Aug. 15, 1950.

Coal. Southern Coal Company, Inc. 533,516, Nov. 14; Serial No. 573,853.

Container of feathers. P. W. Behr. 533,363, Nov. 14; Serial No. 564,369, published Aug. 15, 1950.

Florists' products. The Indoor Gardener, Inc. 533,343, Nov. 14; Serial No. 556,445, published Aug. 15, 1950.

Leather. Sawyer Tanning Company. 533,348, Nov. 14; Serial No. 558,743, published July 25, 1950.

Leathers, Various kinds of. J. Greenebaum Tanning Co. 533,283, Nov. 14; Serial No. 529,048, published July 11, 1950.

Natural flowers. E. W. McLellan Co. 533,346, Nov. 14; Serial No. 557,145, published July 25, 1950.

Pollen, Specially prepared. L. C. Antles. 533,392, Nov. 14; Serial No. 572,937, published Aug. 8, 1950.

Prepared rock for use in agricultural fertilizer products. Canadian Refractories Limited. 533,345, Nov. 14; Serial No. 557,109, published Aug. 15, 1950.

Roofing granules of stone. Quartex Corporation. 533,339, Nov. 14; Serial No. 554,920, published Aug. 15, 1950.

Skins and pelts, Dyed rabbit. Oakland Fur Dyeing Co., Inc. 533,355, Nov. 14; Serial No. 561,973, published Aug. 15, 1950.

Skins, Treated leather. Anglo-American Leather Co., Inc. 533,418, Nov. 14; Serial No. 578,250, published Aug. 15, 1950.

Sole leather. Eberle Tanning Company. 533,311, Nov. 14; Serial No. 546,834, published July 18, 1950.

Sole leather. Middleburg Tanning Corporation. 533,382, Nov. 14; Serial No. 569,633, published July 11, 1950.

Sponges. R. A. Boswell. 533,365, Nov. 14; Serial No. 565,037, published Aug. 15, 1950.

CLASS 2

Cases, Compact. Sperry Mfg. Co. 533,522, Nov. 14; Serial No. 579,565.

Vaults, Burial. Wilbert W. Haase Co. 533,495, Nov. 14; Serial No. 591,925, published Aug. 15, 1950.

CLASS 3

Hand bags and pocketbooks, Women's and misses'. Associated Merchandising Corporation. 279,605, renewed Jan. 20, 1951. O. G. Nov. 14.

Harness rings, hooks and loops, spurs, etc. North & Judd Manufacturing Company. 79,441, re-renewed Sept. 6, 1950. O. G. Nov. 14.

CLASS 4

Cleaner and polish. J. A. Tumbler. 273,546, renewed Aug. 5, 1950. O. G. Nov. 14.

Cleaning compounds, Chemical. Noble Chemical Corporation. 427,656, Feb. 18, 1947. Canceled Sept. 29, 1950. O. G. Nov. 14.

Cleanser and renovator. Carsolite Corporation. 505,837, Jan. 18, 1949. Canceled Sept. 29, 1950. O. G. Nov. 14.

Preparation in paste form for polishing metal, silverware, glass, etc. G. H. Gilroy. 533,509, Nov. 14; Serial No. 553,359.

CLASS 6

Anti-freeze, rust inhibitor, and combined anti-freeze and rust inhibitor. The Pure Oil Company. 533,280, Nov. 14; Serial No. 528,374, published Aug. 8, 1950.

Benzene hexachloride, benzaldehyde, benzol, and benzoate of soda. Tennessee Products & Chemical Corporation. 533,479, Nov. 14; Serial No. 588,335, published Aug. 15, 1950.

Chemicals, Various. Southern Dyestuff Corporation. 533,330–1, Nov. 14; Serial Nos. 553,536–7, published Aug. 15, 1950.

Chemicals, Various. Southern Dyestuff Corporation. 533,333, Nov. 14; Serial No. 553,539, published Aug. 15, 1950.

Coloring fluid, Incandescent lamp. McGill Manufacturing Company, Inc. 533,321, Nov. 14; Serial No. 549,559, published Aug. 15, 1950.

Compounds, Chemical. Nyanza Color & Chemical Co., Inc. 279,808, renewed Jan. 27, 1951. O. G. Nov. 14.

Deodorizer. Apex Products Corporation. 278,046, renewed Dec. 2, 1950. O. G. Nov. 14.

Disinfectant and deodorant. Clean Home Products Corporation. 276,153, renewed Oct. 7, 1950. O. G. Nov. 14.

Dyestuffs. Southern Dyestuff Corporation. 533,332, Nov. 14; Serial No. 553,538, published Aug. 15, 1950.

Dyestuffs. Southern Dyestuff Corporation. 533,334–5, Nov. 14; Serial Nos. 553,540–1, published Aug. 15, 1950.

Dyestuffs and various chemicals. Southern Dyestuff Corporation. 533,329, Nov. 14; Serial No. 553,534, published Aug. 15, 1950.

Emulsifying, wetting, and dispersing agents. Atlas Powder Company. 526,603, June 20, 1950. Corrected. O. G. Nov. 14.

Enzymatic preparation. Wallerstein Company, Inc. 533,397, Nov. 14; Serial No. 573,579, published Aug. 15, 1950.

Friction dressing, Leather. F. H. Ecker. 533,448, Nov. 14; Serial No. 582,077, published Aug. 15, 1950.

Hand protective composition. C. J. Sprusil. 533,415, Nov. 14; Serial No. 577,149, published Aug. 8, 1950.

Insecticides. Commercial Solvents Corporation. 533,480, Nov. 14; Serial No. 588,554, published Aug. 15, 1950.

Lignin prepared from liquors. West Virginia Pulp and Paper Company. 533,350, Nov. 14; Serial No. 559,392, published Aug. 15, 1950.

Mineral powder. H. Bensmann. 79,186, re-renewed Aug. 16, 1950. O. G. Nov. 14.

Preservatives for transmission belts and ropes. Clingsurface Company. 79,104, re-renewed Aug. 9, 1950. O. G. Nov. 14.

Vegetable wax. Imex Corporation. 533,410, Nov. 14; Serial No. 576,642, published Aug. 15, 1950.

CLASS 7

Sash-cord, Braided cotton, hop-twine, and mattress-twine. A. F. Reid. 34,328, re-renewed Mar. 20, 1950. O. G. Nov. 14.

Sash-cords, Braided, and flax thread or gilling-thread. A. F. Reid. 34,329, re-renewed Mar. 20, 1950. O. G. Nov. 14.

CLASS 10

Fertilizers. Commercial Fertilizer Co. 78,690, July 5, 1910. Corrected. O. G. Nov. 14.

Fertilizers. Southern Fertilizer & Chemical Company. 278,821, renewed Dec. 30, 1950. O. G. Nov. 14.

CLASS 11

Stamp pads and rubber stamp ink. Fulton Specialty Co. 533,291, Nov. 14; Serial No. 533,295, published Aug. 15, 1950.

CLASS 12

Awnings, Sheet metal. Miller Ventilated Awning Co., Inc. 533,527, Nov. 14; Serial No. 590,939.

Bricks, Refractory, blocks and plates, etc. Norton Company. 533,307, Nov. 14; Serial No. 546,123, published Aug. 15, 1950.

Building structures, Pre-fabricated, and parts thereof, Stitchting Polynormbouw. 533,324, Nov. 14; Serial No. 551,334, published Aug. 15, 1950.

Cement, Cold setting waterproof. Rubber & Plastics Compound Company, Inc. 533,417, Nov. 14; Serial No. 577,736, published Aug. 8, 1950.

Clips for supporting furring and the like. O. J. Olmstead. 533,510, Nov. 14; Serial No. 559,238.

Crossties, Railroad, poles, piles, etc. American Creosoting Company. 276,640–41, renewed Oct. 21, 1950. O. G. Nov. 14.

Diatomaceous earth. The Eagle-Picher Company. 533,369, Nov. 14; Serial No. 566,216, published Aug. 15, 1950.

Doors and door frames. The American Welding and Manufacturing Company. 533,477, Nov. 14; Serial No. 587,599, published Aug. 8, 1950.

Flooring, Rubber, in tile form. Voorhees Rubber Mfg. Co. Inc. 533,514, Nov. 14; Serial No. 569,496.

Garages, Prefabricated, and the materials therefor. Victory Builders. 533,340, Nov. 14; Serial No. 554,932, published Aug. 15, 1950.

Houses, Prefabricated sectional. Pease Woodwork Company, Inc. 533,520, Nov. 14; Serial No. 577,548.

Lath pans and precast concrete joists and filler blocks. Arnold Stone Company of North Carolina, Inc. 533,454, Nov. 14; Serial No. 582,883, published July 18, 1950.

Lime and plaster for construction purposes. United States Gypsum Company. 533,411, Nov. 14; Serial No. 576,726, published Aug. 8, 1950.

Lumber. Dargan Lumber Manufacturing Company. 533,523, Nov. 14; Serial No. 580,718.

Lumber and millwork. The Pacific Lumber Company of Illinois. 275,724, renewed Sept. 30, 1950. O. G. Nov. 14.

Lumber products. Kirby Lumber Corporation. 533,315, Nov. 14; Serial No. 547,558, published Aug. 8, 1950.

Mortar. The Babcock & Wilcox Company. 533,282, Nov. 14; Serial No. 528,854, published Aug. 8, 1950.

Refractory material, Castable. Pilbrico Jointless Firebrick Company. 533,310, Nov. 14; Serial No. 546,787, published Aug. 8, 1950.

Sealing composition, Asphaltic. Wilbert W. Haase Co. 533,512, Nov. 14; Serial No. 564,568.

Shingles, Amalgamated Roofing Company. 273,575, renewed Aug. 5, 1950. O. G. Nov. 14.

Storm windows, Metal combination. Ace Industries Company. 533,469–70, Nov. 14; Serial Nos. 585,356–7, published Aug. 8, 1950.

Tile, Building, face and common brick, and drain tile. Mason City Brick & Tile Company. 533,373, Nov. 14; Serial No. 567,324, published Aug. 8, 1950.

Tiles, Wall and floor. Franklin Pottery (Inc.). 272,638, renewed July 8, 1950. O. G. Nov. 14.

Weather stripping, Synthetic rubber. Arrowhead Rubber Company. 533,409, Nov. 14; Serial No. 576,566, published Aug. 8, 1950.

Wood trusses, Laminated, beams, ribs, etc. C. G. Williams. 444,318, Nov. 14; Serial No. 522,483, published Aug. 15, 1950.

Wooden units, Folding. Svenska Karosseri Verkstaderna Aktiebolag. 533,402, Nov. 14; Serial No. 574,394, published Aug. 8, 1950.

CLASS 13

Casters. The Bassick Company. 533,455–6, Nov. 14; Serial Nos. 582,937–8, published Aug. 15, 1950.

Cookers, Pressure, and pressure canners. National Pressure Cooker Company. 533,446, Nov. 14; Serial No. 581,752, published Aug. 15, 1950.

Couplings, Hose. H. B. Sherman Manufacturing Company. 533,338, Nov. 14; Serial No. 554,726, published Aug. 15, 1950.

Door checks and door check parts. Dor-O-Matic Co. 533,349, Nov. 14; Serial No. 559,011, published Aug. 15, 1950.

Fasteners, plates, clamps, and rivets. Crescent Belt Fastener Company. 79,107, re-renewed Aug. 9, 1950. O. G. Nov. 14.

Fasteners, Separable slide. Waldes Kohinoor, Inc. 533,354, Nov. 14; Serial No. 561,961, published Aug. 15, 1950.

Piping, tubing, pipe fittings, etc. Bridgeport Brass Company. 275,501–2, renewed Sept. 23, 1950. O. G. Nov. 14.

Screws. The Holo-Krome Screw Corporation. 277,346, renewed Nov. 11, 1950. O. G. Nov. 14.

Screws, Self-tapping, drive screws, screwnails and masonry nails. Parker-Kalon Corporation. 533,476, Nov. 14; Serial No. 586,985, published Aug. 15, 1950.

Shutter-fasteners. G. F. S. Zimmerman & Company. 78,221, re-renewed May 31, 1950. O. G. Nov. 14.

Sprayers, sprinklers and spray irrigation piping, etc. The Skinner Irrigation Company. 533,306, Nov. 14; Serial No. 545,904, published Aug. 15, 1950.

Tacks, Thumb; furniture slide casters and caster wheels; etc. B. Altman & Co. 533,385, Nov. 14; Serial No. 570,158, published Aug. 15, 1950.

Toe plates, heel plates, and braces for shoes. L. Weinstein. 278,509, renewed Dec. 23, 1950. O. G. Nov. 14.

Toilet seats, Children's. Columbia Protektosite Company Inc. 533,472, Nov. 14; Serial No. 585,992, published Aug. 15, 1950.

Tubing, Seamless steel. The Ohio Seamless Tube Company. 533,404, Nov. 14; Serial No. 574,856, published Aug. 15, 1950.

Valves, Control. Saval Company. 533,504, Nov. 14; Serial No. 530,963.

CLASS 14

Anodes, Metal. Wagner Brothers, Inc. 533,508, Nov. 14; Serial No. 551,211.

Metals and alloys, thereof, Nonferrous. Revere Copper and Brass Incorporated. 279,265, renewed Jan. 13, 1951. O. G. Nov. 14.

Tool-steel and steel in bar, rod, sheet, etc., forms. J. J. Saville & Company Limited. 77,401, re-renewed Apr. 5, 1950. O. G. Nov. 14.

Tool-steel and steel in bar, rod, sheet, etc., forms. J. J. Saville & Company Limited. 77,420, re-renewed Apr. 5, 1950. O. G. Nov. 14.

CLASS 15

Lubricants. International Acheson Graphite Co. 79,913, re-renewed Oct. 18, 1950. O. G. Nov. 14.

CLASS 16

Linseed oil, turpentine, ready-mixed oil paints, etc. Davis Paint Company. 533,322, Nov. 14; Serial No. 550,495, published Aug. 8, 1950.

Paint, Asphaltic roof, primer and roof coating. The Carey Philip Manufacturing Company. 533,344, Nov. 14; Serial No. 556,477, published Aug. 8, 1950.

Paint enamel. The Black Diamond Paint & Varnish Works, Inc. 533,336, Nov. 14; Serial No. 554,084, published Aug. 8, 1950.

Paint, Oil. Somay Products, Inc. 533,513, Nov. 14; Serial No. 569,019.

Paints, Ready-mixed, paint enamels, lacquers, paste paints, etc. Impervious Varnish Company. 276,989, renewed Nov. 4, 1950. O. G. Nov. 14.

Pigment for paints. Binney & Smith Company. 79,322, re-renewed Aug. 30, 1950. O. G. Nov. 14.

Preparation, Liquid, for removing gloss from painted and enameled surfaces; etc. Thomson-Porcelite Paint Co. 533,501, Nov. 14; Serial No. 512,872.

Varnishes and varnish stains. John Lucas & Company, Inc. 533,351, Nov. 14; Serial No. 560,120, published Aug. 8, 1950.

Wax for polishing. The Gilbert Spruance Company. 271,634, June 17, 1930. Republished Nov. 14.

CLASS 18

Choline and inositol. Wyeth Incorporated. 533,496, Nov. 14; Serial No. 594,166, published Aug. 8, 1950.

Compounds, Endocrine, cerisal preparation, kava kava, etc. Cole Chemical Company. 274,159, renewed Aug. 19, 1950. O. G. Nov. 14.

Cough syrup. B. R. Faunce. 273,542, renewed Aug. 5, 1950. O. G. Nov. 14.

Drug. Abbott Laboratories. 533,461, Nov. 14; Serial No. 584,099, published Aug. 15, 1950.

Medical preparation. The Larned Company. 275,571, renewed Sept. 23, 1950. O. G. Nov. 14.

Medicated sweetmeats. Hall Brothers (Whitefield) Limited. 274,476, renewed Aug. 26, 1950. O. G. Nov. 14.

Medicinal preparation. Colin Pharmacal Co., Inc. 533,393–4, Nov. 14; Serial Nos. 573,166–7, published Aug. 15, 1950.

Medicinal preparation. Schering Corporation. 533,421, Nov. 14; Serial No. 578,636, published Aug. 15, 1950.

Medicinal preparation. Schering Corporation. 533,459, Nov. 14; Serial No. 583,495, published Aug. 15, 1950.

Medicinal preparation. T. C. Sharp. 533,364, Nov. 14; Serial No. 564,658, published Aug. 15, 1950.

Medicinal preparation. R. J. Strasenburgh Company. 533,471, Nov. 14; Serial No. 585,869, published Aug. 15, 1950.

Medicinal preparation. Wyeth Chemical Company. 275,149, renewed Sept. 16, 1950. O. G. Nov. 14.

Pharmaceutical preparations. The British Drug Houses, Limited. 533,366, Nov. 14; Serial No. 565,167, published July 25, 1950.

Preparation for the treatment of corns, bunions, and callouses. The A. T. Ward Manufacturing Company. 274,686, renewed Sept. 2, 1950. O. G. Nov. 14.

Remedy for cutaneous diseases. The Hoffmann-La Roche Chemical Works. 80,424, re-renewed Dec. 20, 1950. O. G. Nov. 14.

Remedy for the treatment of malaria. Sharp & Dohme. 79,610, re-renewed Sept. 20, 1950. O. G. Nov. 14.

Screwworm killing preparation. W. H. Bone. 444,312, Nov. 14; Serial No. 508,966, published July 25, 1950.

Vermifuge and remedies for indigestion, biliousness, headache, etc. Dr. J. F. True & Co., Inc. 80,092, re-renewed Nov. 1, 1950. O. G. Nov. 14.

Vitamin preparation. Sharp & Dohme, Incorporated. 533,422, Nov. 14; Serial No. 578,830, published Aug. 15, 1950.

CLASS 19

Bicycles, strollers, material hauling trucks, etc. The Colson Corporation. 533,395, Nov. 14; Serial No. 573,168, published Aug. 8, 1950.

Dump bodies, Automotive. Hercules Steel Products Corporation. 533,309, Nov. 14; Serial No. 546,770, published Aug. 8, 1950.

Seat covers, Automobile. Gamble-Skogmo, Inc. 533,468, Nov. 14; Serial No. 584,489, published Aug. 8, 1950.

Shutter fronts for automobile engine radiators. The Brewer-Titchener Corporation. 533,360, Nov. 14; Serial No. 563,723, published Aug. 8, 1950.

Stroller, Baby. American Carry-Products Company, Inc. 533,500, Nov. 14; Serial No. 502,417.

Trucks, Power operated industrial, warehouse, and construction. Clark Equipment Company. 533,279, Nov. 14; Serial No. 528,259, published Aug. 1, 1950.

CLASS 21

Motors, Electric, electric fans, dynamos, etc. Argiro Hermanos. 533,503, Nov. 14; Serial No. 519,820.

CLASS 22

Fishing creels, Plastic. Plastic Sheeting Company. 533,523, Nov. 14; Serial No. 579,832.

Games, Board. Electric Game Company, Inc. 533,506, Nov. 14; Serial No. 542,392.

Tennis rackets. A. G. Spalding & Bros. 275,109, renewed Sept. 16, 1950. O. G. Nov. 14.

Toys, Educational. W. D. Dowler. 533,511, Nov. 14; Serial No. 561,910.

CLASS 23

Blades, Safety razor. Burma-Vita Company. 533,423, Nov. 14; Serial No. 579,079, published Aug. 1, 1950.

Chisels, Turning, halftwist bits, reamers, end face mills, etc. Aktiebolaget Hårdmetallverktyg. 533,383, Nov. 14; Serial No. 569,730, published June 6, 1950.

Cutter chain, cutter-chain sprockets, cutter-head shoes, etc. The Cincinnati Mine Machinery Co. 533,490, Nov. 14; Serial No. 589,830, published Aug. 1, 1950.

Drills, Twist. Star Expansion Bolt Company. 533,377, Nov. 14; Serial No. 567,931, published Aug. 1, 1950.

Engines and particularly aviation engines, gasoline motors, diesel motors, etc. Société Nationale d'Etude et de Construction de Moteurs d'Aviation (S. N. E. C. M. A.). 444,315, Nov. 14; Serial No. 519,300, published June 6, 1950.

Exhaust pipe, Automotive; automotive exhaust muffler; automotive exhaust tail pipe; etc. The Pure Oil Company. 533,376, Nov. 14; Serial No. 567,925, published June 27, 1950.

Files and hand-tools. American Swiss File & Tool Co. 35,700–01, re-renewed Jan. 1, 1951. O. G. Nov. 14.

Lawn mowers. Hal-Gan Products, Inc. 533,435, Nov. 14; Serial No. 580,501, published June 6, 1950.

Lawn mowers. L. N. Smith. 533,390, Nov. 14; Serial No. 572,463, published Aug. 1, 1950.

Loom temples. Draper Corporation. 533,474, Nov. 14; Serial No. 586,687, published Aug. 8, 1950.

Merchandise and beverage vending machines, Coin operated automatic. Rowe Manufacturing Co., Inc. 533,276, Nov. 14; Serial No. 521,825, published June 6, 1950.

Picking machines, Poultry, and machines for stripping leaves from trees and shrubs. Gordon Johnson Company. 533,502, Nov. 14; Serial No. 514,277.

Presses, Rotary printing. R. Hoe & Co., Inc. 533,342, Nov. 14; Serial No. 556,443, published June 27, 1950.

Pumps, Air. Bluemel Bros. Limited. 533,389, Nov. 14; Serial No. 572,408, published June 13, 1950.

Rippers, Tractor-drawn, tractor bulldozer and angledozer blade attachments, etc. Arrow Manufacturing Company. 533,528, Nov. 14; Serial No. 596,646.

Slip-sheeter. Milo Harding Company. 533,358, Nov. 14; Serial No. 562,656, published Aug. 1, 1950.

Suppressing apparatus, Pulsation. The Stearns-Roger Manufacturing Company. 444,319, Nov. 14; Serial No. 523,433, published June 6, 1950.

Textile coverings for rollers. C. Walker Jones Company. 533,432, Nov. 14; Serial No. 580,368, published June 27, 1950.

Tool, Emergency skid chain applying. R. D. Parker. 533,484, Nov. 14; Serial No. 589,227, published July 18, 1950.

Turning machine having associated elements to make the cutting tool pursue a path in related timing. The Monarch Machine Tool Co. 444,310, Nov. 14; Serial No. 498,020, published June 6, 1950.

Vending machines, Automatic cigarette. Automatic Products Co. 533,424, Nov. 14; Serial No. 579,256, published June 6, 1950.

CLASS 26

Tank and pump outfits, Combined, of the self-measuring type for handling oils and the like. Gilbert & Barker Manufacturing Company. 275,440, renewed Sept. 23, 1950. O. G. Nov. 14.

CLASS 27

Clocks and watches. Western Clock Company. 271,938, June 17, 1930. Republished Nov. 14.

CLASS 28

Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Weinreich Brothers Company. 533,467, Nov. 14; Serial No. 584,474, published Aug. 8, 1950.

Pins, Collar. J. D. Wade. 533,416, Nov. 14; Serial No. 577,349, published Aug. 15, 1950.

Rings, Finger. M. Kronstadt. 274,320, renewed Aug. 26, 1950. O. G. Nov. 14.

Wristbands and bracelets. Bulova Watch Company, Inc. 533,398, Nov. 14; Serial No. 573,643, published Aug. 8, 1950.

CLASS 32

Springs, Box, mattresses, etc. Slumber Bedding & Mattress Co., Inc. 439,918, July 27, 1948. Canceled Oct. 11, 1950. O. G. Nov. 14.

CLASS 34

Furnaces and parts thereof; radiating combustion chambers, etc. The Carborundum Company. 275,504, renewed Sept. 23, 1950. O. G. Nov. 14.

Furnaces, Coal, oil, and gas-fired. Jackson and Church Company. 533,518, Nov. 14; Serial No. 575,472.

Screens, Light-diffusing, for reflectors, lighting fixtures, etc. Curtis Lighting, Inc. 276,590, renewed Oct. 21, 1950. O. G. Nov. 14.

CLASS 35

Belting, Rubber, gaskets, hose, etc. Peerless Rubber Manufacturing Company. 34,974, July 31, 1900. Republished Nov. 14.

Fenderwelting. Crotty Corporation. 533,485, Nov. 14; Serial No. 589,306, published July 18, 1950.

Friction elements; fan belts, radiator hose, etc. American Brake Shoe Company. 533,492, Nov. 14; Serial No. 590,053, published July 18, 1950.

Tires, Vehicle, inner tubes, tire flaps, etc. The Federal Rubber Company. 274,880, Sept. 9, 1930. Republished Nov. 14.

CLASS 36

Accordions. International Accordion Manufacturing Company. 533,379, Nov. 14; Serial No. 568,735, published July 25, 1950.

CLASS 37

Paper, Wrapping and printing, and converting papers. Nekoosa-Edwards Paper Company. 278,724, renewed Dec. 30, 1950. O. G. Nov. 14.

Stencil-paper and stencils. L. E. Fuller. 80,310, re-renewed Dec. 6, 1950. O. G. Nov. 14.

CLASS 38

Cards, Greeting and announcement, and publications. M. M. Schwartz. 433,737, Oct. 28, 1947. Republished Nov. 14.

Magazines or periodicals. American Optical Company. 274,611, renewed Sept. 2, 1950. O. G. Nov. 14.

Periodicals. The Bruce Publishing Company. 274,533, renewed Sept. 2, 1950. O. G. Nov. 14.

Publication, Periodical. Standard Rate & Data Service, Inc. 272,605, renewed July 8, 1950. O. G. Nov. 14.

CLASS 39

Berets, Ladies' and men's. Oceana Imports Inc. 533,458, Nov. 14; Serial No. 583,281, published July 25, 1950.

Boots and shoes. Stephen Putney Shoe Co. 533,372, Nov. 14; Serial No. 567,313, published Aug. 1, 1950.

Boots, shoes and slippers, Men's, women's and children's. F. J. Frape Limited. 533,347, Nov. 14; Serial No. 557,272, published Aug. 15, 1950.

Braces, apparel belts and garters. Hickok Manufacturing Co. Inc. 533,296, Nov. 14; Serial No. 536,252, published June 27, 1950.

Caps, Military. Desmond's. 444,308, Nov. 14; Serial No. 465,651, published July 10, 1945.

Clothing. Kirby, Block & Fischer, Inc. 278,623, renewed Dec. 23, 1950. O. G. Nov. 14.

Clothing, Men's. Butler Brothers. 533,371, Nov. 14; Serial No. 566,861, published June 6, 1950.

Clothing, Men's, women's and children's. Fisch and Company. 533,391, Nov. 14; Serial No. 572,734, published June 27, 1950.

Clothing, Ready to wear. Bellman Brook Bleachery Company. 533,368, Nov. 14; Serial No. 566,207, published June 27, 1950.

Coats, Women's and misses'. Associated Merchandising Corporation. 279,606, renewed Jan. 20, 1951. O. G. Nov. 14.

Coats, suits, dresses, and blouses, Women's and misses'. Fred A. Block, Inc. 533,451, Nov. 14; Serial No. 582,409, published Aug. 15, 1950.

Coats, suits, slacks, etc., Women's and girls'. Gilbert Originals, Inc. 533,341, Nov. 14; Serial No. 556,434, published Aug. 1, 1950.

Collars. Trubenizing Process Corporation. 533,445, Nov. 14; Serial No. 581,692, published June 27, 1950.

Cravats. Cheney Brothers. 279,085, renewed Jan. 6, 1951. O. G. Nov. 14.

Cuffs, dickeys, blouses, blousettes, etc., Ladies' and misses'. A. Phillips. 533,353, Nov. 14; Serial No. 561,942, published June 6, 1950.

Dresses, coats, leather shoes, etc., Women's and girls'. Associated Merchandising Corporation. 279,688, renewed Jan. 20, 1951. O. G. Nov. 14.

Gloves and work mittens. Indianapolis Glove Company. 347,176, June 15, 1937. Canceled Oct. 11, 1950. O. G. Nov. 14.

Gloves and work mittens. Indianapolis Glove Company. 500,909, July 6, 1948. Canceled Oct. 11, 1950. O. G. Nov. 14.

Hats, Ladies'. Lish Brothers. 533,431, Nov. 14; Serial No. 580,065, published Aug. 8, 1950.

Hats, Ventilated beach. W. W. Ward. 265,034, Dec. 10, 1929. Canceled Oct. 11, 1950. O. G. Nov. 14.

Hosiery. Julius Kayser & Co. 276,244, Oct. 14, 1930. Republished Nov. 14.

Hosiery. Sidney J. Stern & Co. 533,352, Nov. 14; Serial No. 560,939, published Feb. 28, 1950.

Hosiery, Ladies'. Robinson Manufacturing Company. 533,460, Nov. 14; Serial No. 584,015, published Aug. 15, 1950.

Hosiery, Ladies', men's and children's. Guilford Hosiery Mills. 533,319, Nov. 14; Serial No. 549,380, published Nov. 29, 1949.

Hosiery, Men's, women's and children's. Galax Knitting Company, Incorporated. 533,290, Nov. 14; Serial No. 533,157, published Aug. 1, 1950.

Neckties. Beau Brummel Ties, Inc. 533,300, Nov. 14; Serial No. 540,024, published Aug. 8, 1950.

Neckties. His Majesty, Inc. 533,463, Nov. 14; Serial No. 584,197, published Aug. 8, 1950.

Neckties. A. A. Mendelson. 533,425, Nov. 14; Serial No. 579,338, published Aug. 8, 1950.

Neckties and scarfs. The Resisto Tie Co. 533,443, Nov. 14; Serial No. 581,539, published June 27, 1950.

Neckties, mufflers, and handkerchiefs in sets, Men's and boys'. H. Hyman. 274,173, renewed Aug. 19, 1950. O. G. Nov. 14.

Negligee and work shirts. A. M. Shrago & Sons. 533,292, Nov. 14; Serial No. 533,627, published July 25, 1950.

Outer shirts, Men's. The Manhattan Shirt Company. 533,464–5, Nov. 14; Serial Nos. 584,284–5, published Aug. 8, 1950.

Outer shirts, Men's. McGreevey, Werring & Howell, Inc. 533,362, Nov. 14; Serial No. 564,137, published Aug. 1, 1950.

Outer shirts, Men's and boys'. Cluett, Peabody & Co. Inc. 533,441, Nov. 14; Serial No. 581,250, published Aug. 1, 1950.

Outer suits and overcoats for males. Driesen, Meyer & Oronsky. 190,487, Oct. 14, 1924. Canceled Oct. 13, 1950. O. G. Nov. 14.

Outerwear, Knitted. Shawmut Inc. 533,293, Nov. 14; Serial No. 533,930, published July 11, 1950.

Overcoats, Men's. D. B. Rosenblatt, Incorporated. 422,477, July 23, 1946. Canceled Oct. 11, 1950. O. G. Nov. 14.

Pants and jackets, Men's, boys', women's, and girls' denim. The Black Manufacturing Co. 533,433, Nov. 14; Serial No. 580,459, published July 11, 1950.

Pants and outer shirts, Men's and boys', and ladies' western style pants, etc. Dickson-Jenkins Manufacturing Company. 533,313, Nov. 14; Serial No. 547,238, published Aug. 15, 1950.

Plates, India-rubber, or pads for attachments to the soles or heels of boots and shoes. Phillips' Patents Limited. 276,534, renewed Oct. 21, 1950. O. G. Nov. 14.

Scarfs. Barclay-Clover, Inc., New York, N. Y. 533,439, Nov. 14; Serial No. 581,163, published Aug. 1, 1950.

Scarfs. Timely Accessories, Inc. 533,317, Nov. 14; Serial No. 548,120, published Aug. 1, 1950.

Scarfs, Ladies'. The Lovable Brassiere Co. 533,444, Nov. 14; Serial No. 581,601, published June 27, 1950.

Scarves, Women's. G. B. Peake. 533,457, Nov. 14; Serial No. 582,995, published July 25, 1950.

Shirts, Men's and boys'. Mylan Manufacturing Co., Inc. 533,466, Nov. 14; Serial No. 584,370, published Aug. 8, 1950.

Shirts, T shirts, slacks, etc., Men's and boys'. Marlboro Shirt Company, Inc. 533,428, Nov. 14; Serial No. 579,545, published June 27, 1950.

Shoes. Gude's, Inc. 274,044, renewed Aug. 19, 1950. O. G. Nov. 14.

Shoes. Melville Shoe Corporation. 276,389, Oct. 21, 1930. Republished Nov. 14.

Shoes, Ladies'. Cosmos Shoe Co. Inc. 533,481, Nov. 14; Serial No. 588,744, published Aug. 15, 1950.

Shoes, Leather, military uniforms, hosiery, etc. Paul G. Gallin Co. 533,442, Nov. 14; Serial No. 581,258, published Aug. 15, 1950.

Shoes, Men's and women's. J. B. Smith Shoe Company. 533,304, Nov. 14; Serial No. 543,229, published Aug. 1, 1950.

Shoes, Men's, women's, and children's. Curtis-Stephens-Embry Co., Inc. 533,473, Nov. 14; Serial No. 586,269, published July 11, 1950.

Slacks, Men's and boys'. Monroe Manufacturing Co., Inc. 444,313, Nov. 14; Serial No. 511,755, published Aug. 1, 1950.

Soles, Shoe. Avon Sole Company. 533,487, Nov. 14; Serial No. 589,403, published Aug. 15, 1950.

Sportwear, Men's. Associated Military Stores. 444,316, Nov. 14; Serial No. 520,604, published June 27, 1950.

Suits and overcoats, Boys' and young men's. Ben Wiener and Bro. 533,326, Nov. 14; Serial No. 551,927, published June 28, 1949.

Suits, Bathing. Aqua Mfg. Co., Inc. 533,436, Nov. 14; Serial No. 580,709, published Aug. 1, 1950.

Suits, Men's, trousers, sport coats, etc. A. Sagner's Son. 533,386, Nov. 14; Serial No. 570,232, published Aug. 15, 1950.

Sweaters, jackets, suits, etc. Worcester Knitting Company. 533,302, Nov. 14; Serial No. 541,902, published July 25, 1950.

Sweaters, Men's and women's knitted woolen; women's woolen dresses; etc. Pringle Johnston Imports, Ltd. 533,281, Nov. 14; Serial No. 528,478, published Aug. 1, 1950.

Trousers for men. William F. Fretz & Son. 533,447, Nov. 14; Serial No. 581,786, published Aug. 8, 1950.

Trousers, jackets, and outer shirts, Men's and boys', and ladies' slacks. Glaser Bros. Inc. 533,314, Nov. 14; Serial No. 547,254, published June 27, 1950.

Undershirts, Knitted, drawers, and union suits. The Piqua Hosiery Co. 79,690, re-renewed Sept. 27, 1950. O. G. Nov. 14.

Underwear, corsets, brassières, Ladies', etc. The William Carter Company. 273,450, renewed Aug. 5, 1950. O. G. Nov. 14.

Underwear, Women's and children's rayon and knit. The Campe Corporation. 277,104, renewed Nov. 4, 1950. O. G. Nov. 14.

Wearing apparel. Gertrude Davenport, Inc. 533,429, Nov. 14; Serial No. 579,672, published July 11, 1950.

Wearing apparel. Gertrude Davenport, Inc. 533,430, Nov. 14; Serial No. 579,673, published Aug. 15, 1950.

CLASS 40

Combs. New York Merchandise Co., Inc. 273,415, renewed Aug. 5, 1950. O. G. Nov. 14.

Hat braids. Henry Pollak, Inc. 533,475, Nov. 14; Serial No. 586,878, published July 25, 1950.

CLASS 42

Carpets and rugs. Artloom Corporation. 394,352–3, Mar. 31, 1942. Republished Nov. 14.

Carpets and rugs. Artloom Corporation. 398,041, Oct. 6, 1942. Republished Nov. 14.

Carpets and rugs. Artloom Corporation. 398,979, Dec. 8, 1942. Republished Nov. 14.

Cotton goods in the piece. Avondale Mills. 533,491, Nov. 14; Serial No. 589,885, published Aug. 15, 1950.

Curtains, Textile fabric glass. Fairclough & Gold, Inc. 533,482, Nov. 14; Serial No. 589,017, published Aug. 15, 1950.

Dry goods. Rosemary Manufacturing Company. 54,211, June 19, 1906. Canceled Oct. 5, 1950. O. G. Nov. 14.

Fabrics in the piece. Crompton Company. 533,493, Nov. 14; Serial No. 590,218, published Aug. 15, 1950.

Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. 279,699, renewed Jan. 20, 1951. O. G. Nov. 14.

Fabrics, Knitted and woven. Perkins Hosiery Mills. 279,698, renewed Jan. 20, 1951. O. G. Nov. 14.

Piece goods, Pacific Mills. 533,488, Nov. 14; Serial No. 589,524, published Aug. 15, 1950.

Piece goods, Cotton. Aktiengesellschaft A. & R. Moos. 533,356, Nov. 14; Serial No. 561,996, published Aug. 15, 1950.

Piece goods, Cotton. American Bleached Goods Company, Inc. 533,483, Nov. 14; Serial No. 589,059, published Aug. 15, 1950.

Piece goods, Cotton. Glen Raven Cotton Mills. 279,711, renewed Jan. 20, 1951. O. G. Nov. 14.

Piece goods, Cotton. Haythornthwaite & Sons Limited. 533,396, Nov. 14; Serial No. 573,547, published Aug. 1, 1950.

Piece goods, Cotton. Pacolet Manufacturing Company. 533,403, Nov. 14; Serial No. 574,590, published Aug. 15, 1950.

Piece goods, Cotton and rayon. Imperial Textile Co. Of New York, Inc. 533,405, Nov. 14; Serial No. 574,910, published Aug. 15, 1950.

Piece goods, Rayon. Cantor-Greenspan Co., Inc. 533,489, Nov. 14; Serial No. 589,708, published Aug. 15, 1950.

Piece goods, Textile. Spray & Burgass Limited. 533,401, Nov. 14; Serial No. 574,167, published Aug. 15, 1950.

Piece goods, Woolen. H. W. Schwab Textile Corp. 533,414, Nov. 14; Serial No. 576,991, published Aug. 15, 1950.

Piece goods, Woolen. S. Stein & Co. 80,388, re-renewed Dec. 13, 1950. O. G. Nov. 14.

Piece goods, Woolen. W. P. Willis & Co., Inc. 533,486, Nov. 14; Serial No. 589,355, published Aug. 15, 1950.

Rugs, Cotton. Lawrence Products Company, Inc. 533,494, Nov. 14; Serial No. 590,227, published Aug. 15, 1950.

Sheets and pillow cases. Arkwright, Incorporated. 533,478, Nov. 14; Serial No. 588,195, published Aug. 1, 1950.

Sheets, pillowcases, blankets, and bedspreads. Kirby, Block & Fischer, Inc. 277,541, renewed Nov. 18, 1950. O. G. Nov. 14.

Tablecovers and window curtains. The Beechwood Company, Incorporated. 533,325, Nov. 14; Serial No. 551,434, published Aug. 15, 1950.

CLASS 43

Spool-cotton, sewing-cotton, thread and cotton yarn. The American Thread Company. 79,954, re-renewed Oct. 25, 1950. O. G. Nov. 14.

CLASS 44

Appliances for administration of anti-biotics, anti-histaminics, etc. American Cyanamid Company. 533,287, Nov. 14; Serial No. 532,262, published Aug. 15, 1950.

Cast aluminum exerciser. Hipaway Manufacturing Company. 533,275, Nov. 14; Serial No. 517,910, published Aug. 15, 1950.

Dryers, Hair, hair waving machines, curling rods, etc. Samuel Bonat & Bro., Inc. 533,299, Nov. 14; Serial No. 538,597, published July 18, 1950.

Instruments, Livestock. Sears, Roebuck and Co. 533,388, Nov. 14; Serial No. 570,645, published Aug. 15, 1950.

Spoons and spatulas for surgical and pharmaceutical use. P. N. Waldesbühl. 533,327, Nov. 14; Serial No. 552,821, published Aug. 15, 1950.

Surgical drainage pumps. Gomco Surgical Manufacturing Corp. 533,305, Nov. 14; Serial No. 545,475, published July 25, 1950.

Tweezers, Dental. Arrow Supply & Tool Co. 533,294, Nov. 14; Serial No. 533,971, published Aug. 15, 1950.

Urinals, Clinical male, dressing basins, paper mortuary gowns, etc. Meinecke & Company. 533,303, Nov. 14; Serial No. 541,938, published July 25, 1950.

CLASS 46

Almonds, Shelled and unshelled. California Almond Growers Exchange. 533,505, Nov. 14; Serial No. 535,479.

Bread. Continental Baking Company. 274,904, Sept. 9, 1930. Republished Nov. 14.

Butter. Golden State Milk Products Company. 275,086, renewed Sept. 16, 1950. O. G. Nov. 14.

Butter and fresh eggs. Armour and Company. 533,286, Nov. 14; Serial No. 532,196, published June 20, 1950.

Cake. Continental Baking Company. 277,784, Nov. 25. Republished Nov. 14.

Candy. Consolidated Tea Company, Inc. 277,875, renewed Dec. 2, 1950. O. G. Nov. 14.

Candy. The Fair. 533,297, Nov. 14; Serial No. 536,372, published July 4, 1950.

Candy. King Candy Company. 533,328, Nov. 14; Serial No. 553,286, published July 4, 1950.

Canned and packaged food products. Associated Food Distributors, Inc. 533,285, Nov. 14; Serial No. 531,077, published June 27, 1950.

Canned fruit. California Packing Corporation. 533,452, Nov. 14; Serial No. 582,413, published June 13, 1950.

Canned fruits and vegetables. Fort Stanwix Canning Company 80,276, re-renewed Nov. 29, 1950. O. G. Nov. 14.

Canned fruits, frozen fresh fruits and frozen fresh berries. Washington Canners Cooperative. 533,316, Nov. 14; Serial No. 548,031, published June 27, 1950.
Canned ham. Atalanta Products Corp. 533,524, Nov. 14; Serial No. 580,009.
Canned Italian style tomatoes. McKeon Canning Co., Inc. 444,317, Nov. 14; Serial No. 522,475, published Mar. 15, 1949.
Canned pickles. W. Amerise. 533,440, Nov. 14; Serial No. 581,232, published June 27, 1950.
Canned salmon, tuna, and crabmeat. Point Adams Packing Co. 533,289, Nov. 14; Serial No. 532,492, published Dec. 6, 1949.
Canned, smoked and salted fish. A. M. Smith & Company, Limited. 533,367, Nov. 14; Serial No. 565,970, published July 4, 1950.
Canned stuffed green peppers, canned pimientos, etc. Kehoe Preserving Co. 533,320, Nov. 14; Serial No. 549,448, published June 27, 1950.
Canned tangerine juice, canned grapefruit juice, canned orange juice, etc. E. S. Smith Company, Inc. 533,337, Nov. 14; Serial No. 554,431, published June 27, 1950.
Canned vegetables and coffee. M. Siegel. 533,449, Nov. 14; Serial No. 582,244, published June 27, 1950.
Canned vegetables and coffee. M. Siegel. 533,450, Nov. 14; Serial No. 582,247, published June 27, 1950.
Cheese. Gerber & Co., Inc. 279,643, renewed Jan. 20, 1951. O. G. Nov. 14.
Cocoanut, Granulated. The Hills Brothers Company. 279,722, renewed Jan. 20, 1951. O. G. Nov. 14.
Coffee. Geo. W. Caswell Co. 273,770, renewed Aug. 12, 1950. O. G. Nov. 14.
Dog food base. G. G. Schiffhauer. 533,387, Nov. 14; Serial No. 570,438, published June 27, 1950.
Eggs, Liquid. John Layton & Co., Ltd. 272,896, renewed July 15, 1950. O. G. Nov. 14.
Feed and grain, Dairy and poultry. Southern Pacific Milling Company. 278,983, renewed Jan. 6, 1951. O. G. Nov. 14.
Feed for hogs, cattle, horses, etc. Hales & Hunter Co. 533,308, Nov. 14; Serial No. 546,767, published June 20, 1950.
Feed supplement, Vitamin and protein concentrate. F. Y. Chuck. 533,408, Nov. 14; Serial No. 575,626, published June 27, 1950.
Feeds, Animal, and poultry feeds. Albers Milling Company. 533,357, Nov. 14; Serial No. 562,172, published June 27, 1950.
Flour, bread, biscuit, crackers and cereals. The Malted Cereals Co. 35,599, re-renewed Dec. 18, 1950. O. G. Nov. 14.
Flour, Self-rising. M. Stern. 444,311, Nov. 14; Serial No. 506,784, published June 27, 1950.
Flour, Wheat. The Colorado Milling & Elev. Co. 533,419, Nov. 14; Serial No. 578,369, published June 20, 1950.
Flour, Wheat. Tex-O-Kan Flour Mills Co. 533,370, Nov. 14; Serial No. 566,670, published Aug. 29, 1950.
Flour, Wheat. Texas Star Flour Mills. 533,359, Nov. 14; Serial No. 562,892, published Nov. 8, 1949.
Flour, Wheat, whole wheat flour, graham flour, etc. Eagle Roller Mill Co. 533,277, Nov. 14; Serial No. 527,026, published June 20, 1950.
Food emulsifiers. Atlas Powder Company. 533,378, Nov. 14; Serial No. 568,168, published June 27, 1950.
Fruit, Fresh citrus. Pride O' Texas Citrus Association. 533,515, Nov. 14; Serial No. 570,721.
Fruits, Fresh citrus. Escondido Orange Association. 533,318, Nov. 14; Serial No. 548,490, published June 20, 1950.
Fruits, Fresh citrus. Gulf Vegetable & Fruit Company. 257,462, renewed June 11, 1949. O. G. Nov. 14.
Gravy mix. Loma Linda Food Company. 533,519, Nov. 14; Serial No. 576,976.
Ice cream. Frosty Manors, Inc. 533,381, Nov. 14; Serial No. 569,000, published June 27, 1950.
Malt syrup. Pabst Corporation. 273,506, renewed Aug. 5, 1940. O. G. Nov. 14.
Molasses. The North American Trading & Import Company. 274,902, Sept. 9, 1930. Republished Nov. 14.
Mustard, Prepared, and prepared mustard with horseradish, mayonnaise, etc. Leston Company. 533,462, Nov. 14; Serial No. 584,137, published July 4, 1950.
Peanut butter and salad dressings. Food Specialties, Inc. 533,499, Nov. 14; Serial No. 493,336.
Peanuts, Salted. The Perry Company. 533,507, Nov. 14; Serial No. 545,642.
Poultry, Dressed, and fresh eggs. Levine Produce Company. 533,374, Nov. 14; Serial No. 567,590, published June 27, 1950.
Prepared pie crust dough and cookie dough. K Cookie Dough Co. 533,312, Nov. 14; Serial No. 547,128, published June 27, 1950.
Preserves, Fruit. The J. M. Smucker Co. 278,826, renewed Dec. 30, 1950. O. G. Nov. 14.
Salt, Medium; table salt; salt spools; etc. The Carey Salt Company. 533,298, Nov. 14; Serial No. 537,153, published June 20, 1950.
Sausages and meat loaf. Auth-Loffler, Inc. 533,295, Nov. 14; Serial No. 533,973, published June 27, 1950.
Syrup. Abram, Lyle & Sons, Limited. 85,185, renewed Oct. 2, 1950. O. G. Nov. 14.
Syrup, Chocolate flavored. The Great American Tea Company. 533,323, Nov. 14; Serial No. 551,009, published June 27, 1950.
Syrups, Table, sorghum syrups. American Syrup & Sorghum Co. 533,288, Nov. 14; Serial No. 532,422, published July 4, 1950.
Vegetables, Fresh. J. S. Danenberg. 533,453, Nov. 14; Serial No. 582,418, published June 20, 1950.

CLASS 48

Beer. The Oshkosh Brewing Company. 79,442, renewed Sept. 6, 1950. O. G. Nov. 14.

CLASS 50

Composite garment hangers and article holders. R. Peacock. 533,526, Nov. 14; Serial No. 582,854.
Table felt. Pittsburgh Waterproof Company. 533,521, Nov. 14; Serial No. 578,819.
Tents; tarpaulins; and tenting and camping outfits. Henry Modell & Co., Inc. 533,301, Nov. 14; Serial No. 541,161, published July 25, 1950.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. H. S. Gompes. 276,026, renewed Oct. 7, 1950. O. G. Nov. 14.
Bath salts. R. H. Clark. 533,278, Nov. 14; Serial No. 527,555, published Aug. 15, 1950.
Cold cream for infants. Q-Tips Inc. 533,375, Nov. 14; Serial No. 567,711, published Aug. 15, 1950.
Cream, Make-up; hair dressing; bleaching cream; etc. Morton Manufacturing Corporation. 533,273, Nov. 14; Serial No. 511,030, published Aug. 8, 1950.
Face lotions. Face Contour, Inc. 444,309, Nov. 14; Serial No. 490,240, published July 25, 1950.
Perfumes. The Andrew Jergens Company. 533,380, Nov. 14; Serial No. 568,801, published Aug. 15, 1950.
Perfumes, toilet waters, face lotions, face creams, etc. Lionel Trading Co., Inc. 273,939, renewed Aug. 19, 1950. O. G. Nov. 14.
Pressing oil for the hair. J. W. Rawls. 533,406, Nov. 14; Serial No. 575,017, published Aug. 15, 1950.
Saponaceous compounds, shaving creams, shaving sticks, etc. Comfort Manufacturing Company. 284,080–1, June 16, 1931. Republished Nov. 14.
Shaving cream, Liquid, and beard softener. A. Horner. 533,517, Nov. 14; Serial No. 574,146.
Tooth paste, Ammoniated, ammoniated tooth powder, and ammoniated mouth wash. Dental Pharmaceutical Corporation of America. 533,434, Nov. 14; Serial No. 580,469, published July 25, 1950.
Tooth powder. H. E. Kimble. 275,220, Sept. 16, 1930. Republished Nov. 14.

CLASS 52

Chemical compounds, Cleaning, cleansing and detergent. Ciba Limited. 533,437–8, Nov. 14; Serial Nos. 580,921–2, published Aug. 15, 1950.
Cleaner, Radiator. Stet Chemical Company. 533,400, Nov. 14; Serial No. 573,991, published Aug. 15, 1950.
Cleaner, White side-wall tire. Vogue Rubber Company. 533,384, Nov. 14; Serial No. 570,136, published Aug. 15, 1950.
Cleaning compound, Electrical contact. Rotol Chemical Corp. 533,399, Nov. 14; Serial No. 573,975, published Aug. 15, 1950.
Cleaning preparations, Liquid non-abrasive. Klem Chemicals, Inc. 533,284, Nov. 14; Serial No. 529,427, published Aug. 15, 1950.
Detergent. J. Miele. 533,426, Nov. 14; Serial No. 579,339, published Aug. 15, 1950.
Detergent. J. Miele. 533,427, Nov. 14; Serial No. 579,341, published Aug. 15, 1950.
Detergent preparation. F. Cobbs. 444,314, Nov. 14; Serial No. 513,556, published Aug. 15, 1950.
Saponaceous compounds, shaving creams, shaving sticks, etc. Comfort Manufacturing Company. 284,080–1, June 16, 1931. Republished Nov. 14.
Soap. Newell Gutradt Company. 533,420, Nov. 14; Serial No. 578,613, published Aug. 15, 1950.
Soap, Lemon hand. Topp Oil & Supply Co. 275,779, renewed Sept. 30, 1950. O. G. Nov. 14.
Soap, Liquid, soluble in gasoline. American Disinfecting Company. 279,289, renewed Jan. 13, 1951. O. G. Nov. 14.
Toilet soap. Safeway Stores, Incorporated. 533,412–13, Nov. 14; Serial Nos. 576,987–8, published Aug. 15, 1950.
Washing preparation. Phipps Products Inc. 533,274, Nov. 14; Serial No. 514,221, published Aug. 15, 1950.

CLASS 100

Services rendered in connection with oil wells. Schlumberger Well Surveying Corporation. 533,498, Nov. 14; Serial No. 585,954, published Aug. 15, 1950.

CLASS 101

Publicizing original songs submitted by amateurs, etc. E. R. French. 533,497, Nov. 14; Serial No. 559,961, published Aug. 15, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Earle, Ralph H., Wauwatosa, Wis., assignor to McGraw Electric Company. Combined lightning arrester and fuse construction. Re. 23,293, Nov. 14.

McGraw Electric Company, assignee: *See*— Earle, Ralph H.

LIST OF DESIGN PATENTEES

Abrahamson, Aladar: *See*— Sors, Ivan, and Abrahamson.
American Optical Company, assignee: *See*— Ellis, Charles A.
Army, United States of America as represented by the Secretary of the, assignee: *See*— Will, Elizabeth, and Du Bois.
Aron, Morris, South Norwalk, Conn. Necktie display rack or similar article. 160,830, Nov. 14.
Astrove, Joseph, New Rochelle, N. Y. Child's hooded suit. 160,831, Nov. 14.
Bell & Howell Company, assignee: *See*— Johnson, Elmer L.
Bergman, Jack, Pittsburgh, Pa. Clock or similar article. 160,832, Nov. 14.
Berman, Oscar A., New York, N. Y. Dress or similar article. 160,833, Nov. 14.
Billig, Ralph B.: *See*— Ziskin, Manual S., and Billig.
Brounn, Morrison J., Flushing, assignor to Otis Elevator Company, New York, N. Y. Elevator starter's panel. 160,834, Nov. 14.
Brower, Maurice N., Leonia, N. J., assignor to Gustave, Inc., New York, N. Y. Slipper. 160,835, Nov. 14.
Brower, Maurice N., Leonia, N. J., assignor to Gustave, Inc., New York, N. Y. Slipper. 160,836, Nov. 14.
Brower, Maurice N., Leonia, N. J., assignor to Gustave, Inc., New York, N. Y. Slipper. 160,837, Nov. 14.
Brower, Maurice N., Leonia, N. J., assignor to Gustave, Inc., New York, N. Y. Slipper. 160,838, Nov. 14.
Brown, Alexander P., Beechhurst, N. Y. Piano or similar article. 160,839, Nov. 14.
Burke, Myles J., Jersey City, N. J. Street directional sign. 160,840, Nov. 14.
Burnelli, Vincent J., Great Neck, N. Y. Airplane. 160,841, Nov. 14.
Burnelli, Vincent J., Great Neck, N. Y. Airplane. 160,842, Nov. 14.
Chrysler Corporation, assignee: *See*— O'Leary, Milo J.
Columbus Plastic Products Inc., assignee: *See*— Roop, Nathan W.
Cone, William L., Dallas, Tex., assignor to Plastics Manufacturing Company. Tumbler. 160,843, Nov. 14.
Copeland, William E., Kansas City, Kans. Combined tray, log, and salt and pepper shaker. 160,844, Nov. 14.
Dreyfuss, Henry, Pasadena, assignor to Byron Jackson Co., Vernon, Calif. Pump and motor unit. 160,845, Nov. 14.
Du Bois, Arthur E.: *See*— Will, Elizabeth, and Du Bois.
Edmonson, Lillian G., Columbus, Miss. Canister unit. 160,846, Nov. 14.
Ellis, Charles A., Worcester, assignor to American Optical Company, Southbridge, Mass. Eye testing instrument. 160,847, Nov. 14.
Ernster, Sophie B., Los Angeles, Calif. Egg tray. 160,848, Nov. 14.
Farber, S. W., Inc., assignee: *See*— Foster, Hoyt K.
Federal Manufacturing & Engineering Corp., assignee: *See*— Kaplowitz, Morris, and Hirsch.
Foster, Hoyt K., Hollis, assignor to S. W. Farber, Inc., New York, N. Y. Handle for coffee makers. 160,849, Nov. 14.
Francis, Edward J., Paterson, N. J. Bowling game board. 160,850, Nov. 14.
Gemex Company, assignee: *See*— Sand, John F.
Gillespie, William L., Seattle, Wash. Chain saw. 160,851, Nov. 14.
Girs, Anatol, Detroit, Mich. Printing type font. 160,852, Nov. 14.
Glickman, Mannes N., and M. Klebanoff, Nutley, N. J. Metal glass seal or similar article. 160,853, Nov. 14.
Goldstine, Lee M., Chicago, Ill., and L. A. Hunting, Independence, Mo., said Hunting assignor to said Goldstine. Wind deflector. 160,854, Nov. 14.
Goldstine, Lee M., Chicago, Ill., and L. A. Hunting, Independence, Mo., said Hunting assignor to said Goldstine. Wind deflector. 160,855, Nov. 14.
Goodstein, Joseph, New York, N. Y. Bedspread cover or similar article for electrically heated blankets. 160,856, Nov. 14.
Gordon, Max, New York, N. Y. Blouse or similar article. 160,857, Nov. 14.
Grove, Donald E., Los Angeles, Calif. Camera. 160,858, Nov. 14.
Gustave, Inc., assignee: *See*— Brower, Maurice N.
Harker, Samuel K., West Lafayette, Ind. Door knocker. 160,859, Nov. 14.
Heisey, A. H., & Company, assignee: *See*— Heisey, T. Clarence.
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass plate or article of similar nature. 160,860, Nov. 14.
Hirsch, Max: *See*— Kaplowitz, Morris, and Hirsch.
Horovitz, Morris, Providence, R. I. Expansible bracelet. 160,861, Nov. 14.
Hunting, Leonard A.: *See*— Goldstine, Lee M., and Hunting.
Jackson, Byron Co., assignee: *See*— Dreyfuss, Henry.
Johnson, Elmer L., assignor to Bell & Howell Company, Chicago, Ill. Automatic sheet feeding apparatus. 160,862, Nov. 14.
Johnson, Sixten I.: *See*— Reifsnyder, James D., and Johnson.
Kalvig, Lewis J., Hackensack, Minn. Game board. 160,863, Nov. 14.
Kaplowitz, Morris, and M. Hirsch, New York, N. Y., assignors to Federal Manufacturing & Engineering Corp. Cooking utensil or similar article. 160,864, Nov. 14.
Katzenberger, Edward F., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Body for a helicopter. 160,865, Nov. 14.
Kellogg, Everett J., Columbus, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio. Shingle. 160,866, Nov. 14.
Kilburg, James, Burlingame, assignor to James Kilburg Corporation, San Mateo, Calif. Automatic telephone dialer. 160,867, Nov. 14.
Kilburg, James Corporation, assignee: *See*— Kilburg, James.
Klebanoff, Michael: *See*— Glickman, Mannes N., and Klebanoff.
Koplar, Alan E., Chicago, Ill. Clock case. 160,868, Nov. 14.
Korinek, John, assignee: *See*— Tarrant, William R.
Kromex Corporation, assignee: *See*— Ziskin, Manuel S., and Billig.
Kubiak, Zygmunt, Cleveland, Ohio. Child's sled. 160,869, Nov. 14.
Lane, David, assignor to Progress Manufacturing Company Inc., Philadelphia, Pa. Fluorescent lamp holder. 160,870, Nov. 14.
Larkin, Kenneth H., Kansas City, Mo. Swimming pool. 160,871, Nov. 14.
Lily-Tulip Cup Corporation, assignee: *See*— Reifsnyder, James D., and Johnson.
Maddux, Forrest E., Sr., assignor to Wessel Bedding Company, Cincinnati, Ohio. Hollywood bed back. 160,872, Nov. 14.
Maguolo, America T., St. Louis, Mo. Prie-dieu. 160,873, Nov. 14.
Marshall, Ann N., Taos, N. Mex. Toy animal figure. 160,874, Nov. 14.
McKaig, Charles H., Camillus, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 160,875, Nov. 14.

Mesl, Phillip J., assignor to Totebrush, Inc., Chicago, Ill. Condiment container or similar article. 160,876, Nov. 14.
Midwest Metal Products Company, assignee: *See*—
Smith, Earl F.
Moe Brothers Manufacturing Company, assignee: *See*—
Stevens, Clifford B.
Moorman, Charles L., Millington, Ill. Expanded metal panel. 160,877, Nov. 14.
Nemeth, Otto R., Los Angeles, Calif. Record player. 160,878, Nov. 14.
Noble, Donald E., Chicago, Ill. Accordion. 160,879, Nov. 14.
O'Leary, Milo J., Rochester, assignor to Chrysler Corporation, Highland Park, Mich. Automobile bumper. 160,880, Nov. 14.
Onondaga Pottery Company, assignee: *See*—
McNaig, Charles H.
Otis Elevator Company, assignee: *See*—
Brown, Morrison J.
Perlman, Arnold, Greenwich, Conn., assignor to Helene Pessl, Inc., New York, N. Y. Bottle cap. 160,881, Nov. 14.
Pessl, Helene, Inc., assignee: *See*—
Perlman, Arnold.
Pierson, Charles A., Maumee, Ohio. Electric range. 160,882, Nov. 14.
Plastics Manufacturing Company, assignee: *See*—
Cone, William L.
Pope, Dora A., Atwood, Colo. Shirt or the like. 160,883, Nov. 14.
Powell, La Von I., Denver, Colo. Child's walking automobile. 160,884, Nov. 14.
Powell, La Von I., Denver, Colo. Child's vehicle. 160,885, Nov. 14.
Powell, La Von I., Denver, Colo. Child's walking tractor. 160,886, Nov. 14.
Powell, La Von I., Denver, Colo. Child's walking tricycle. 160,887, Nov. 14.
Progress Manufacturing Company Inc., assignee: *See*—
Lane, David.
Purdon, Elda E., Detroit, Mich. Protective apron. 160,888, Nov. 14.
Reconstruction Finance Corporation, assignee: *See*—
Kellogg, Everett J.
Redden, Arthur L., Vallejo, Calif. Set of bridge playing game tablets. 160,889, Nov. 14.
Reifsnyder, James D., Flushing, and S. I. Johnson, College Point, assignors to Lily-Tulip Cup Corporation, New York, N. Y. Receptacle for rodent poison. 160,890, Nov. 14.
Renz, Curt A., Chicago, Ill. Child's slipper. 160,891, Nov. 14.
Roop, Nathan W., assignor to Columbus Plastics Products Inc., Columbus, Ohio. Flower holder or similar article. 160,892, Nov. 14.
Sand, John F., Newark, assignor to Gemex Company, Union, N. J. Watch bracelet. 160,893, Nov. 14.
Schneider, Harold, New Bedford, Mass. Handle for a brief case or similar article. 160,894, Nov. 14.
Sebel, Harry, London, England. Wheeled toy tortoise. 160,895, Nov. 14.
Smith, Earl F., assignor to Midwest Metal Products Company, Muncie, Ind. Carrier-rack for fruit jars or the like. 160,896, Nov. 14.
Sors, Ivan, and A. Abrahamson, New York, N. Y. Sun shield or similar article. 160,897, Nov. 14.
Stancato, Joseph G., Seattle, Wash. Accordion. 160,898, Nov. 14.
Stevens, Clifford B., Milwaukee, assignor to Moe Brothers Manufacturing Company, Fort Atkinson, Wis. Wall bracket lamp. 160,899, Nov. 14.
Suhren, Mary C., Teaneck, N. J. Bookstand for Bible or similar article. 160,900, Nov. 14.
Suhren, Mary C., Teaneck, N. J. Bookstand for Bible or similar article. 160,901, Nov. 14.
Suhren, Mary C., Teaneck, N. J. Bookstand for Bible or similar article. 160,902, Nov. 14.
Suhren, Mary C., Teaneck, N. J. Bookstand for Bible or similar article. 160,903, Nov. 14.
Sutherland, Lyndall L., Peoria, Ill. Display device. 160,904, Nov. 14.
Tarrant, William R., assignor of one-half to J. Korinek, Indianapolis, Ind. Combined bowler's roughener and shoehorn. 160,905, Nov. 14.
Totebrush, Inc., assignee: *See*—
Mesl, Phillip J.
Ungar, Leo, University City, Mo. Holder for playing cards. 160,906, Nov. 14.
United Aircraft Corporation, assignee: *See*—
Katzenberger, Edward F.
Walsh, Consuelo P., Spring Valley, N. Y. Sewing accessory doll. 160,907, Nov. 14.
Wessel Bedding Company, assignee: *See*—
Maddux, Forrest E., Sr.
Wiedman, George P., North Tonawanda, N. Y. Lawn guide. 160,908, Nov. 14.
Will, Elizabeth, and A. E. Du Bois, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army. Badge or similar article. 160,909, Nov. 14.
Wolford, Claude L., Los Angeles, Calif. Kite. 160,910, Nov. 14.
Yereb, Louis A., St. Louis, Mo. Combination ash tray, glass, and bottle holder. 160,911, Nov. 14.
Ziskin, Manuel S., University Heights, and R. B. Billig, Erieside, assignors to Kromex Corporation, Cleveland, Ohio. Teakettle. 160,912, Nov. 14.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the **first significant character** or word of the name (in accordance with city and telephone directory practice).

ACF-Brill Motors Company, assignee: *See*—
Kateley, Francis W.
Abbott Laboratories, assignee: *See*—
Fields, Mack R.
Abbott, Sylvia H., North Redonda, and J. F. Hutchinson, Gardena, Calif. Auxiliary seat for beauty parlor chairs and the like. 2,529,532, Nov. 14.
Abildgaard, William and W. H., assignors, by mesne assignments, to Livestock Sprayer Mfg. Co., San Jose, Calif. Livestock sprayer. 2,529,530, Nov. 14.
Abildgaard, William, and C. C. Herbert, assignors to Livestock Sprayer Mfg. Co., San Jose, Calif. Grub scrubber. 2,529,531, Nov. 14.
Abildgaard, William H.: *See*—
Abildgaard, William and W. H.
Abraham, Albert, Jr., Staten Island, N. Y., assignor to Standard Oil Development Company. Corrosion resistant liner materials and making the same. 2,530,320, Nov. 14.
Ackley, Charles S., assignor to Thermactor Corporation, New York, N. Y. Oil column heating means and method. 2,530,280, Nov. 14.
Adams, Archie Q., Clatskanie, Oreg. Power hammer attachment for tractors. 2,529,892, Nov. 14.
Adams, George F., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Controlling flow of subdivided solid particles. 2,529,583, Nov. 14.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Arthur, Jett C., Jr.
Air-Maze Corporation, assignee: *See*—
Walton, George M.
Air Reduction Company, Incorporated, assignee: *See*—
Tyrner, Joseph M., and Anderson.
Aktiebolaget Colorator, assignee: *See*—
Nieburg, Felix.
Aktiebolaget Facit, assignee: *See*—
Annerén, Rolf E.
Toorell, Sture.
Aktiebolaget Gotaverken, assignee: *See*—
Johansson, Johan E.
Aladdin Industries Limited, assignee: *See*—
Hebard, Hugh C.
Albert, Louis L., Irvington, N. J. Collapsible poultry crate. 2,529,893, Nov. 14.
Albertson, Victor N., Minneapolis, Minn. Ratchet wrench. 2,529,476, Nov. 14.
Alexander, Mack C., Charlotte, N. C. Musical instrument. 2,529,584, Nov. 14.
Allen, Joseph W.: *See*—
Gartner, Lawrence E., and Allen.
Allen Manufacturing Company, assignee: *See*—
Gates, Clarence S.
Allen, Wallace T., Dearborn, assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,529,754, Nov. 14.
Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Arvidsson, Algot.
Forssell, Harry.
Petersén, Wilhelm H.
Almond, John R., Cleveland, and W. C. Bosworth, Lakewood, assignors to The Midland Steel Products Company, Cleveland, Ohio. Solenoid plunger mechanism. 2,529,533, Nov. 14.
Alter, Julian F., Greeneville, Tenn. Toy motor vehicle simulated steering wheel. 2,529,755, Nov. 14.
Altman, Fred E., and J. A. Blash, assignors to Eastman Kodak Company, Rochester, N. Y. Objective mount. 2,529,894, Nov. 14.
Ambler, Robert R., Akron, and R. D. Weston, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Machine for applying covering material to endless belts. 2,529,859, Nov. 14.
Amend, Walter A., Sr., assignee: *See*—
Millais, Warren.
Amendolara, Vito: *See*—
Conway, Edward S., and Amendolara.
American Brake Shoe Company, assignee: *See*—
Browne, Lindsay H.
American Can Company, assignee: *See*—
Bach, Neils P.
Pechy, Williams.
Roberts, Howell L., and Sognefest.
American Cyanamid Company, assignee: *See*—
Erickson, John G.
Germann, Richard P.
Hook, Edwin O.
Scrutchfield, Paul H.
West, Herbert J., and Watt.
American Lace Paper Company, assignee: *See*—
Kieckhefer, Robert J.
American Laundry Machinery Company, The, assignee: *See*—
Vetorino, Frank.
American Viscose Corporation, assignee: *See*—
Crawley, William P.
Kreamer, William H.
Miller, Hugh.
Amort, Louis W.: *See*—
Miller, Samuel L., and Amort.
Amsler Morton Corporation, assignee: *See*—
Gass, Karl W.
Amstutz, Edward D., Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio. 2,8-diaminodibenzothiophene dioxide and N,N'-derivatives. 2,529,860, Nov. 14.
Anderson, George V., Hailey, Idaho. Electrical cutting and punching machine. 2,529,895, Nov. 14.
Anderson, Nelson E.: *See*—
Tyrner, Joseph M., and Anderson.
Andres, Lloyd J., Itasca, assignor, by mesne assignments, to H. C. Evans & Company, Chicago, Ill. Selector mechanism for automatic phonographs. 2,530,347, Nov. 14.
Andrews, Harold A.: *See*—
Johnson, Nels H., and Andrews.
Angell, Robert C., and G. H. Browne, Prince Bay, N. Y., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable seat supporting structure. 2,529,861, Nov. 14.
Angus, George, and Company Limited, assignee: *See*—
Goodwin, Reginald.
Annerén, Rolf E., assignor to Aktiebolaget Facit, Atvidaberg, Sweden. Support for office machines. 2,529,475. Nov. 14.
Anzionnaz, René, assignee: *See*—
Sédille, Marcel H. L., and Imbert.
Appel, Gustave, New York, N. Y. Corn and callous remover. 2,530,216, Nov. 14.
Appleton Electric Company, assignee: *See*—
Tornblom, Nils A.
Arenco Aktiebolag, assignee: *See*—
Danielsson, Paul.
Arisman, Mervin B.: *See*—
Vaksvik, Adrian J., and Arisman.
Arma Corporation, assignee: *See*—
Davis, Arthur P.
Armour and Company, assignee: *See*—
Bluhm, Fred A., Hayes, and Zeigler.
Armstrong, Durward, Northport, N. Y. X-ray cassette. 2,530,321, Nov. 14.
Arnette, Dale, Granite City, assignor to Key Company, East St. Louis, Ill. Pattern for foundry casting molds. 2,529,647, Nov. 14.
Arnold, Gerald D., Wauwatosa, Wis. Centrifugal cyclone separator. 2,530,112, Nov. 14.
Arnow, Nathan: *See*—
Trimm, Ernest L., and Arnow.
Aro Equipment Corporation, The, assignee: *See*—
Ginter, Charles W.
Arthur, Jett C., Jr., New Orleans, La., assignor to the United States of America as represented by the Secretary of Agriculture. Manufacture of peanut protein. 2,529,477, Nov. 14.
Artistic Beauty Products Company, assignee: *See*—
Semco, William B.
Arvidsson, Algot, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Lighting control. 2,529,989, Nov. 14.
Ash, Charles S., San Francisco, Calif. Recovering soluble solids from fruit waste. 2,530,322, Nov. 14.
Ashcraft, Harry R., Edgewood, Md. Plant duster. 2,530,039, Nov. 14.
Askren, Lee T., assignor to Eastman Kodak Company, Rochester, N. Y. Shutter for motion-picture apparatus. 2,529,896, Nov. 14.
Atkins, Carl E., Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Secret signaling system. 2,530,140, Nov. 14.
Atkins, Carl E., Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Electronic distance indicator and the like. 2,530,141, Nov. 14.
Atkins, Carl E., Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Secret signaling system 2,530,142, Nov. 14.
Atlantic Development Company, assignee: *See*—
De Lancey, Warren H.
Atlas Powder Company, assignee: *See*—
Brandner, John D.

Atlas Press Company, assignee: *See*—
Collins, James G.

Austin, Archibald S. J., Princes Risborough, R. H. Sapiro, Pinner, and R. P. Fraser, Kingston Hill, England. Prevention of mist on transparent sheets and reflectors. 2,529,585, Nov. 14.

Autogiro Company of America, assignee: *See*—
Pullin, Cyril G., and Watson.

Automatic Electric Laboratories, Inc., assignee: *See*—
Peterson, Edward S.
Voss, John H.

Avakian, Souren: *See*—
Martin, Gustav J., and Avakian.

Ayers, George W., Chicago, Ill., and E. E. Harton, Laramie, Wyo., assignors to The Pure Oil Company, Chicago, Ill. Sweetening gasoline. 2,529,670, Nov. 14.

B. B. Sales Company, assignee: *See*—
Stearns, Frank H.

Bach, Nells P., Geneva, assignor to American Can Company, New York, N. Y. Casing door operator. 2,529,478, Nov. 14.

Bacus, James L., Pendleton, Oreg. Device for cleaning radiators. 2,529,756, Nov. 14.

Baer, Georges, Paudex Lausanne, Switzerland, assignor to Pignons, S. A., Ballaigues. Reflex camera, including mirror guides and resilient stop member. 2,529,757, Nov. 14.

Bahan, George F., Greenville, S. C. Thread extracting, clamping, and cutting device for looms. 2,529,758, Nov. 14.

Bailey, James, West Hartford, and C. G. Reber, Newington, assignors to Plax Corporation, Hartford, Conn. Process of and apparatus for manufacturing thin wall tubing. 2,529,897, Nov. 14.

Bailey Meter Company, assignee: *See*—
Dickey, Paul S.

Bain, John, assignee: *See*—
Jones, Alton H.

Bain, Lewis A., Jr., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conductive coating compositions. 2,530,217, Nov. 14.

Baker, Charles O., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Recovery and utilization of olefins by an absorption-alkylation process. 2,530,143, Nov. 14.

Balanda, Anthony J.: *See*—
Blakeslee, Clinton A., Balanda, and Dyson.

Banks, Charles T., Neenah, assignor to Victrylite Candle Company, Oshkosh, Wis. Candle dipping machine. 2,529,829, Nov. 14.

Bannon, John H., Union, N. J., assignor to Standard Oil Development Company. Cleansing of polymerization reactors. 2,530,144, Nov. 14.

Barber, Jesse, Spokane, Wash. Casting universal joints. 2,529,586, Nov. 14.

Barker, Charles E., Essex, assignor to Sylvania Electric Products Inc., Salem, Mass. Support for lighting fixtures employing elongated tubular lamps. 2,529,990, Nov. 14.

Barker, Sydney W., Colne, assignor to Lustrafil Limited, Nelson, England. Collection of artificial yarn on ring spindles. 2,530,146, Nov. 14.

Barrows, Clarence G., Hamden, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Window shade construction. 2,530,218, Nov. 14.

Barsby, Charles R., London, England. Rotary internal-combustion engine. 2,530,281, Nov. 14.

Bartusek, Joseph F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York N. Y. Device for removing an insulating coating from coated wire. 2,530,219, Nov. 14.

Baruch, Sydney N., assignor to Norton Patents Corporation, New York, N. Y. Crib and mechanism for oscillating the same. 2,529,721, Nov. 14.

Bates, Harry U., and J. T. Perkins, said Bates assignor to J. E Teel, Los Angeles, Calif. Toilet seal for augmenting the flushing capacity of toilet tanks in unstopping sewers. 2,529,587, Nov. 14.

Bates, Mortimer F., Brooklyn, N. Y., assignor to The Sperry Corporation. Automatic stabilizer for helicopters. 2,529,479, Nov. 14.

Batik, Albert L., New York, N. Y. Axle suspension device for vehicles. 2,529,898, Nov. 14.

Baumgart, Max D., New York, N. Y. Darning device. 2,530,040, Nov. 14.

Bausch & Lomb Optical Company, assignee: *See*—
Gallasch, Bernhardt G.
Stegeman, Raymond F. E.

Bayler, Howard O., Los Angeles, Calif. Pressing machine for pants and the like. 2,529,899, Nov. 14.

Beckett, Ernest S., Penryn, Calif. Car squeeze. 2,529,588, Nov. 14.

Bedale, Paul W., Littleover, Derby, and J. O. P. Hughes, Duffield, assignors to Rolls-Royce Limited, Derby, England. Fuel flow control for internal-combustion engines. 2,529,900, Nov. 14.

Beech Aircraft Corporation, assignee: *See*—
Roters, Herbert C.

Beerli, Karl, assignor to Spindel- , Motoren- und Maschinenfabrik A. G., Uster, Switzerland. High-speed spinning or twisting spindle. 2,529,904, Nov. 14.

Beerli, Norbert C., Mayfield Heights, assignor to The Weatherhead Company, Cleveland, Ohio. Adapter. 2,529,534, Nov. 14.

Behrens, Leo S., Baton Rouge, La. Bait casting device. 2,529,901, Nov. 14.

Beiser, Leo, New York, N. Y. Tobacco cartridge for smoking pipes. 2,529,902, Nov. 14.

Belcher, Harold H., Orange, Mass., assignor to Rodney Hunt Machine Company. Plaiter. 2,529,991, Nov. 14.

Belcher, John A., Winnipeg, Manitoba, Canada. Parts storing cabinet. 2,530,220, Nov. 14.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bender, Sydney E., Brooklyn, N. Y. Device for pressure and heat sealing of plastics. 2,530,221, Nov. 14.

Bendix Aviation Corporation, assignee: *See*—
Gartner, Lawrence E., and Allen.

Bennett, John H., Falls County, Tex. Power mower, 2,530,041, Nov. 14.

Benoliel, Robert W., Menlo Park, Calif., and B. W. Flanagan, Baton Rouge, La., assignors to Standard Oil Development Company. Emptying butyl rubber reactor. 2,530,145, Nov. 14.

Benson, Harry D., Fresno, assignor to General Nailing Machine Corporation, Sanger, Calif. Spring scale. 2,529,759, Nov. 14.

Berggren, Karl V. R., Stockholm, Sweden. Frame structure joint. 2,529,903, Nov. 14.

Bergman, William E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treating a water base drilling mud to remove contaminating sulfate ions. 2,529,760, Nov. 14.

Berssenbrugge, Willem L., The Hague, Netherlands, assignor to E. Leitz, Inc., New York, N. Y. Apparatus for combining two cameras. 2,529,905, Nov. 14.

Bersworth, Frederick C., Verona, N. J. Alkylene polyamine derivatives. 2,530,147, Nov. 14.

Bertelsmeyer, Friedrich H., Stamford, Conn. Shuffleboard scoreboard. 2,529,535, Nov. 14.

Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus and method for use in making ribbed strips for insoles. 2,529,793, Nov. 14.

Bessot, Leonce E., Paris, and P. Garet, Choisy-Le-Roi, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Production of N³-p-chlorophenyl-N³-isopropyl biguanide. 2,529,992, Nov. 14.

Better Packages Incorporated, assignee: *See*—
Krueger, Theodore H., and Sharpe.

Bierer, John M., Waban, assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass. Vulcanizing method and apparatus. 2,529,830, Nov. 14.

Biery, Arthur, Pine Island, Minn. Mousetrap. 2,529,589, Nov. 14.

Biery, Arthur, assignor of one-half to L. W. Thomforde, Pine Island, Minn. Belt buckle. 2,529,906, Nov. 14.

Bilhuber, Paul H., Douglas Manor, assignor to Steinway & Sons, New York, N. Y. Diaphragm unit and fabricating same. 2,529,862, Nov. 14.

Bissinger, William E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Purification of thionyl chloride. 2,529,671, Nov. 14.

Bjorklund, Carl S.: *See*—
Bjorklund, Edsel T., E. C., and C. S.

Bjorklund, Edgar C.: *See*—
Bjorklund, Edsel T., E. C., and C. S.

Bjorklund, Edsel T., E. C., and C. S., Milwaukee, Wis. Collapsible cage or live box. 2,530,148, Nov. 14.

Bjorksten, Johan, Chicago, Ill. Fluid evaporating device. 2,529,536, Nov. 14.

Black, William A., Montclair, N. J. Dispensing apparatus. 2,529,672, Nov. 14.

Blackstone and Company Limited, assignee: *See*—
Hallewell, George.

Blake, Lucille, New York, N. Y. Lipstick holder. 2,529,673, Nov. 14.

Blakeslee, Clinton A., Middlebury, A. J. Balanda, Wolcott, and E. F. Dyson, assignors to The Bristol Company, Waterbury, Conn. Mounting for instrument pointers and pen arms. 2,529,907, Nov. 14.

Blash, Joseph A.: *See*—
Altman, Fred E., and Blash.

Blinoff, Vsevolod, Paris, assignor to Société Anonyme dite: Societe D'Innovations Chimiques dite: Sinnova ou Sadic, Maux, Beauval, France. Separating higher molecular alcohols from the soaps obtained in the preparation of the same. 2,530,042, Nov. 14.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Preparation of a hydrocarbon drying oil. 2,529,590, Nov. 14.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Preparation of synthetic resins from a dichloroalkene and a hydrocarbon fraction containing chloro-aromatic hydrocarbons. 2,529,591, Nov. 14.

Bluhm, Fred A., Michigan City, Ind., D. W. Hayes, Chicago, and A. H. Zeigler, Kenilworth, assignors to Armour and Company, Chicago, Ill. Fiber spinning apparatus and method. 2,529,674, Nov. 14.

Bohaboy, Edward J., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reciprocating bender with sliding side shapers. 2,530,222, Nov. 14.

Booth, James H., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Timer. 2,529,480, Nov. 14.

Borkland, Gustave W., Marion, Ind. Method and apparatus for drawing plastic sheet material. 2,530,043, Nov. 14.

Bortner, William A., Baltimore, Md., W. W. Collins, Wilmington, Del., and E. J. Tousignan, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Cargo hoist. 2,529,908, Nov. 14.

Borton, William E., Omaha, Nebr. Form for concrete construction. 2,529,648, Nov. 14.

Boston Woven Hose and Rubber Company, assignee: *See*—
Bierer, John M.

Bosworth, William C.: *See*—
Almond, John R., and Bosworth.

Bowen, Claude T., Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making hard thermoplastic tube assemblies. 2,529,863, Nov. 14.

Bowen, Tom, assignor to Pullars Instruments Limited, (formerly Pullars Electric Co. (Brighton) Limited), Brighton, England. Mounting for flexible capsules for operating transmissions. 2,529,909, Nov. 14.

Bowser, Inc., assignee: *See*—
Harvuot, Frank B.

Boyce, Boykin B., and W. B. Powell, Memphis, Tenn. Suction street sweeper. 2,529,993, Nov. 14.

Boyd, Winnett, Bobcaygeon, assignor, by mesne assignments, to Canadian Patents and Development Limited, Ottawa, Ontario, Canada. Self-aligning bearing mounting. 2,530,323, Nov. 14.

Boyle, John R., assignor to Westerlin & Campbell Company, Chicago, Ill. Air circulating apparatus. 2,529,592, Nov. 14.

Brandner, John D., West Walker Township, Schuylkill County, Pa., assignor to Atlas Powder Company, Wilmington, Del. Bleaching of organic material. 2,529,831, Nov. 14.

Breaux, Elton H., Rayne, La. Oil well filter. 2,530,223, Nov. 14.

Bremer, Frederick J., assignor to The Mosler Safe Company, Hamilton, Ohio. Skirt for safes. 2,529,761, Nov. 14.

Brevard, Procter, Tower, Minn. Supercharger. 2,529,864, Nov. 14.

Brewer, James C., Dayton, Ohio. Fluid rate of flow indicator. 2,529,481, Nov. 14.

Brewer-Titchener Corporation, The, assignee: *See*—
Johannsen, Udo K.

Brewster, Morris B., Co., Inc., assignee: *See*—
White, William H.

Březek, Rudolf, Prague-Smichov, assignor to Tatra nardoni podnik, Koprivnice, Czechoslovakia. Air inlet structure for rear engine comparments of streamlined vehicles. 2,529,994, Nov. 14.

Březek, Rudolf, Prague-Smichov, assignor to Tatra nardoni podnik, Koprivnice, Czechoslovakia. Arrangement of mufflers and vehicle body chambers therefor. 2,529,995, Nov. 14.

Brietzke, Adrian P., assignor to Northern Engraving & Manufacturing Co., La Crosse, Wis. Indicator mechanism. 2,529,832, Nov. 14.

Brietzke, Adrian P., assignor to Northern Engraving & Manufacturing Co., La Cross, Wis. Indicator mechanism. 2,529,833, Nov. 14.

Brisse, Andre H., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Method and apparatus for continuous cleaning of metal strip. 2,529,762, Nov. 14.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Owner, Frank M., and Henstridge.

Bristol Company, The, assignee: *See*—
Blakeslee, Clinton A., Balanda, and Dyson.

Bristol Steel & Iron Works, Inc., assignee: *See*—
Ferguson, Robert O.

Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Calculating machine. 2,530,149, Nov. 14.

Britton, Edgar C., and J. C. Vander Weele, Midland, Mich., and J. E. Livak, Clemson, S. C., assignors to The Dow Chemical Company, Midland, Mich. Halogenated derivatives of aliphatic acids, lactones and making same. 2,530,348, Nov. 14.

Brod, John S.: *See*—
Henry, Ronald A., and Brod.

Brod, John S., Wyoming, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Sulfonation of allyl esters. 2,529,537, Nov. 14.

Brod, John S., Wyoming, Ohio, and R. A. Henry, Inyokern, Calif., assignors to The Procter & Gable Company, Cincinnati, Ohio. Sulfonation of unsaturated esters. 2,529,539, Nov. 14.

Brodie, George R., Lower Merion Township, Montgomery County, and W. M. Hawkes, Jr., Philadelphia, Pa., assignors to Fred'k H. Levey Co., Inc., New York, N. Y. Method of and apparatus for printing. 2,530,282, Nov. 14.

Broos, Henricus A.: *See*—
Van Loon, Carel J., and Broos.

Broshears, Lee, Fowler, Ind. Electric lantern. 2,529,910, Nov. 14.

Brown, Abner E., Richmond Heights, Mo. Valved nursing bottle. 2,529,794, Nov. 14.

Brown, Bertram G., Yonkers, N. Y. Filter. 2,530,283, Nov. 14.

Brown, John M.: *See*—
Burtner, Robert R., and Brown.

Browne, George H.: *See*—
Angell, Robert C., and Browne.

Browne, Lindsay H., Westport, Conn., assignor to American Brake Shoe Company. Epicyclic drive. 2,529,996, Nov. 14.

Browne, Lindsay H., Westport, Conn., assignor to American Brake Shoe Company. Epicyclic drive. 2,529,997, Nov. 14.

Bruesewitz, Roger H.: *See*—
Dockray, Willie L., and Bruesewitz.

Brulin, Laurence W., New York, N. Y. Construction of cartons. 2,529,675, Nov. 14.

Brush Development Company, The, assignee: *See*—
Massa, Frank.

Bryant, George E., Rydalmere, New South Wales, Australia, assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Dragline excavating apparatus. 2,530,150, Nov. 14.

Bryer, Melvin L., Beeville, Tex. Valve. 2,529,795, Nov. 14.

Bugg, Kenly C., Fort Wayne, Ind. Liquid dispensing apparatus. 2,530,113, Nov. 14.

Bugg, Kenly C., and H. L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg. Reel. 2,530,114, Nov. 14.

Bulow, Einar V.: *See*—
Goddin, Harvie W., and Bulow.

Bumbera, Edmund A., Turtle Creek, and C. S. Herr, Jr., Penn Township, Allegheny County, Pa.; said Herr assignor to said Bumbera. Clothesline structure. 2,530,324, Nov. 14.

Burke, John H. Q., Oklahoma City, Okla. Brush spreading attachment for tractors. 2,529,998, Nov. 14.

Burke, Willie C., Kenosha, Wis. Diaper. 2,530,189, Nov. 14.

Burtner, Robert R., Skokie, and J. M. Brown, Chicago, assignors to G. D. Searle & Co., Skokie, Ill. Pyridylalkyl esters of aromatic substituted acetic acids. 2,529,865, Nov. 14.

Bush, John H., assignee: *See*—
Turnbull, Robert B.

Businger, Albert, Basel, Switzerland, assignor to Hoffman-La Roche Inc., Nutley, N. J. 3-methyl-hexen (2)-yne (5) derivatives. 2,529,482, Nov. 14.

Byrnes, James C., Jr., U. S. Navy. Aircraft bomb fuse. 2,529,483, Nov. 14.

Cade, Phillip J., assignor to Photoswitch, Incorporated, Cambridge, Mass. Electronic control apparatus. 2,529,796, Nov. 14.

Cain, Eldon: *See*—
Gracey, Dale, and Cain.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Copolymers of acrylonitrile and N-allyl and N-2-methallyl cyanides 2,529,911, Nov. 14.

California Packing Corporation, assignee: *See*—
Dunn, Guy A.

Camp, Leon W., Glendale, Calif., assignor, by mesne assignments, to The Pennsylvania Research Corporation. Magnetostriction transducer. 2,530,224, Nov. 14.

Campanelli, Anthony M., New York, N. Y. Cam actuated clamp. 2,530,225, Nov. 14.

Campbell, Milton H.: *See*—
Hughes, Everett C., and Campbell.

Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Intercommunicating apparatus. 2,529,912, Nov. 14.

Canada Needle and Fishing Tackle Company Limited, assignee: *See*—
Crook, Arthur J. H.

Canadian Patents and Development Limited, assignee: *See*—
Boyd, Winnett.

Candor, Robert R., Oakland, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,529,913, Nov. 14.

Canfield, William B.: *See*—
Rust, John B., and Canfield.

Capps, Frank L., & Co., Inc., assignee: *See*—
Capps, Isabel L., and Cook.

Capps, Isabel L., Westbury, and E. G. Cook, Floral Park, assignors to Frank L. Capps & Co., Inc., New York, N. Y. Recording stylus. 2,530,284, Nov. 14.

Carlin, James C., Norristown, assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Length-marking apparatus. 2,529,593, Nov. 14.

Carlson, Carl S., Roselle, N. J., assignor to Standard Oil Development Company. Azeotropic distillation of mesitylene from isophorone. 2,530,325, Nov. 14.

Carlson, Earl J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinyl benzoate and polyunsaturated carbonate esters. 2,529,866, Nov. 14.

Carlson, Earl J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinyl esters of aliphatic acids with dialkenylcarbonate esters of alkylene bis-phenols. 2,529,867, Nov. 14.

Carlzen, Carl F.: *See*—
Meyer, Alvin D., and Carlzen.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Brisse, Andre H.
Guy, Charles M.

Carnell, Paul H., Alma, Mich., assignor to Phillips Petroleum Company. Treatment for the improvement of lubricating oils. 2,529,484, Nov. 14.

Carris, Jerry R., Washington, Iowa, assignor of one-half to R. R. Osborn, Chicago, Ill. Tone arm. 2,529,676, Nov. 14.

Carron, William W., Chicago, Ill. Air vent valve. 2,529,884, Nov. 14.

Carter Carburetor Corporation, assignee: *See*— Henning, Otto.

Carver, Emmett K., assignor to Eastman Kodak Company, Rochester, N. Y. Surge chamber. 2,530,190, Nov. 14.

Casco Products Corporation, assignee: *See*— Lockwood, Edwin H.

Case, Nelson P., Oak Park, Ill., assignor to The Hallicrafters Co. Motor tuning system for receiving systems. 2,529,677, Nov. 14.

Casselle, Leonard C., Thame, England. Method of and apparatus for producing flattened glass tubing. 2,529,678, Nov. 14.

Castillon, Guillermo L., San Antonio, Tex. Illuminated changeable sign device. 2,530,044, Nov. 14.

Catranis, John G., Syracuse, N. Y. Artificial leg (diaphragm knee lock control). 2,530,285, Nov. 14.

Catranis, John G., Syracuse, N. Y. Foot control for artificial legs. 2,530,286, Nov. 14.

Caubie, Raymond R., Indianapolis, Ind. Mower with yieldingly retractable knives. 2,529,797, Nov. 14.

Celanese Corporation of America, assignee: *See*— Fallows, Leonard, and Mellers. Hunter, William.

Celotex Corporation, The, assignee: *See*— Muesch, Carl G.

Centre National de la Recherche Scientifique, assignee: *See*— Felid, Noël.

Challenner, Ansel P., Norman, Okla., assignor to Denison Mattress Factory, Denison, Tex. Electrical heating element. 2,529,914, Nov. 14.

Chamberlin, Ralph L., Middlesex, N. J., assignor to Research Corporation, New York, N. Y. Collecting electrode structure for electrical precipitators. 2,529,594, Nov. 14.

Chambers, Laura A., San Francisco, Calif. Diaper. 2,529,909, Nov. 14.

Chance, A. B., Company, assignee: *See*— Harper, James K.

Chapman & Smith Company, assignee: *See*— Handler, Julius J., and Pratt.

Chausson, Gaston, assignor to Societe Anonyme des Usines Chausson, Asnieres, France. Motor vehicle body with independent wheel suspension. 2,530,226, Nov. 14.

Chausson, Gaston, assignor to Societe Anonyme des Usines Chausson, Asnieres, France. Heating and antifreezing apparatus for aircraft. 2,529,915, Nov. 14.

Cheek, James B., assignor of forty per cent to R. S. Cheek, Madison, Fla. Attachment for soft drink bottles. 2,530,227, Nov. 14.

Cheek, Rosa S., assignee: *See*— Cheek, James B.

Cherba, Samuel: *See*— Grotemeyer, Erich, and Cherba.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Buffing and polishing compositions and preparation. 2,529,722, Nov. 14.

Chevallier, André, Paris, assignor to Société Union D'Electricite, Paris, (Seine) France. Device for measuring and comparing functions. 2,529,723, Nov. 14.

Chew, Thornton W., U. S. Navy. Color television. 2,529,485, Nov. 14.

Chicago Telephone Supply Corporation, assignee: *See*— Vaksvik, Adrian J., and Arisman.

Childress, Patrick H., assignor of one-fourth to D. W. May, Waynesboro, Va. Combined ignition and starter switch. 2,529,916, Nov. 14.

Chireix, Henri, Paris, France, assignor to Societe Francaise Radio Electrique. Aerial navigation. 2,530,287, Nov. 14.

Chrysler Corporation, assignee: *See*— Gilbert, Alva B.

Ciano, Florence, St. Albans, N. Y. Candle residue dispenser. 2,530,288, Nov. 14.

Ciba Limited, assignee: *See*— Fioroni, Walter. Moergeli, Eduard, Sutter, and Kern.

Cihlar, Anthony J., Riverside, Ill., and W. E. Moore, St. Paul, Minn., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical protective device. 2,530,228, Nov. 14.

Clark, Harry H., Los Angeles, Calif. Railroad spike. 2,530,229, Nov. 14.

Clarkson, William S., Washington, D. C., and J. H. Rupe, Mount Rainier, Md. Resilient fair-lead. 2,529,486, Nov. 14.

Cleveland Wire Spring Company, assignee: *See*— Sjolander, John L.

Clouet, André P., Paris, France. Calculating apparatus. 2,530,191, Nov. 14.

Cluett, Peabody & Co., Inc., assignee: *See*— Pfeffer, Edward C., Jr., and Epelberg.

Coca-Cola Company, The, assignee: *See*— Copping, Bruce G.

Cody, Richard J., Evanston, Ill., assignor to Federal-Mogul Corporation, Detroit, Mich. Shipping and display box. 2,529,595, Nov. 14.

Cohn, Arthur, New York, N. Y. Desk pad structure. 2,530,115, Nov. 14.

Cole, Frank E., Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying pressure to shoe bottoms. 2,529,798, Nov. 14.

Coleman Company, Inc., The, assignee: *See*— Coleman, William C.

Coleman, William C., assignor to The Coleman Company, Inc., Wichita, Kans. Floor furnace. 2,530,151, Nov. 14.

Coley, Nelson B., assignor to General Railway Signal Company, Rochester, N. Y. Airplane approach control system. 2,529,596, Nov. 14.

Collins, James G., assignor to Atlas Press Company, Kalamazoo, Mich. Table saw with tiltable and vertically adjustable arbor. 2,530,290, Nov. 14.

Collins Radio Company, assignee: *See*— Couillard, Luther W.

Collins, William W.: *See*— Bortner, William A., Collins, and Tousignan.

Colonial Broach Company, assignee: *See*— Pataki, Denes, and Welte. Welte, Benedict.

Colonial Radio Corporation, assignee: *See*— Meyer, Alvin D., and Carlzen.

Columbian Carbon Company, assignee: *See*— Heller, George L.

Connors, John S., Cleveland, Ohio. Hitch coupling. 2,529,868, Nov. 14.

Consolidated Sewing Machine & Supply Co., Inc., assignee: *See*— Ingwer, Max.

Conway, Edward S., New York, and V. Amendolara, Brooklyn, assignors of one-half to said Conway, and one-half to S. B. Good, Brooklyn, N. Y. Finger ring lighter. 2,530,291, Nov. 14.

Conwiser, Sylvia T., New York, N. Y. Carrying kit removably insertable into a purse or the like. 2,529,724, Nov. 14.

Cook, Emory G.: *See*— Capps, Isabel L., and Cook.

Cook, Wallace L., Chicago, Ill., assignor to The Whitney Blake Company, Hamden, Conn. Molding objects of sponge rubber and the like. 2,530,289, Nov. 14.

Cooley, Vernon E., U. S. Army, Arlington, Va. Rotor assembly. 2,529,487, Nov. 14.

Coover, Harry W., J. E. Guillet, and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing alkyl isodehydroacetates. 2,529,917, Nov. 14.

Copien, George, Colorado Springs, Colo. Sectional shelving. 2,529,649, Nov. 14.

Copping, Bruce G., Atlanta, Ga., assignor to The Coca-Cola Company, Wilmington, Del. Dispensing apparatus. 2,530,045, Nov. 14.

Coppock, Franklin E., Frenchtown, N. J., assignor to F. A. Krause, West McHenry, Ill. Dipping machine. 2,529,488, Nov. 14.

Corn Products Refining Company, assignee, *See*— Sowden, John C.

Cornwell, Ralph E., La Canada, Calif. Hydraulic resistance brake for rotary members. 2,529,540, Nov. 14.

Corwin, Dorsey D., Kansas City, Mo. Stapling machine. 2,530,152, Nov. 14.

Cossor, A. C., Limited, assignee: *See*— Jofeh, Lionel.

Costa, Lawrence J.: *See*— Wade, Estes M., and Costa.

Cotterell, Maurice S., assignee: *See*— Fox, Clarence D.

Couillard, Luther W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Automatic volume control arrangement. 2,530,000, Nov. 14.

Courtaulds Limited, assignee: *See*— Morton, Thomas H., and Ward.

Cowan, Malcolm H., Parkton, N. C. Fire extinguisher. 2,530,001, Nov. 14.

Coy, Joseph A., Tulsa, Okla. Cooling tower spray. 2,530,002, Nov. 14.

Cozzoli, Frank J., Plainfield, N. J. Combined filling and sealing machine. 2,530,230, Nov. 14.

Craig, Winfred C., Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Cyan color formers capable of yielding fine grain images. 2,530,349, Nov. 14.

Cramer, Royal G., Zanesville, Ohio. Ring roll bearing. 2,529,918, Nov. 14.

Crawley, William P., Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Knitted structure and producing said structure. 2,529,541, Nov. 14.

Credland, Frederick R.: *See*— Davey, Edward L., and Credland.

Crockett, Harold W., Berkeley, assignor to the Paraffine Companies, Inc., San Francisco, Calif. Moisture resistant covering material. 2,529,799, Nov. 14.

Crook, Arthur J. H., Havelock, assignor to Canada Needle and Fishing Tackle Company Limited, Toronto, Ontario, Canada. Hook to gut holder. 2,530,292, Nov. 14.

Crossingham, James H., Mount Airy, N. C., assignor to Mount Airy Knitting Co. Diaper. 2,530,046, Nov. 14.

Crowley, George C., Bridgeport, Conn., assignor to General Electric Company. Electric control device. 2,530,003, Nov. 14.

Crown Controls Company, Inc., assignee: *See*— Dicke, Allen A.

Croxall, Williard J.: *See*— Van Hook, John O., and Croxall.

Cunningham, George J., Indianapolis, Ind. Automatic clutch for motor bicycles. 2,529,919, Nov. 14.

Currie, Grover C., assignor to Dacam Corporation, Charlotte, N. C. Bottle carton. 2,529,725, Nov. 14.

Curtis, George W., Wauwatosa, Wis. Torque dividing driving and control mechanism for vehicles. 2,529,489, Nov. 14.

Curtiss-Wright Corporation, assignee: *See*— Statham, Louis D.

Cutler-Hammer, Inc., assignee: *See*— Kuhn, Clarence W.

Dacam Corporation, assignee: *See*— Currie, Grover C.

Dahl, Elis G., New York, N. Y. Steam iron with wetting strip. 2,530,116, Nov. 14.

Dailey, Manvel C., Elmhurst, and J. R. Parsons, assignors to United States Gypsum Company, Chicago, Ill. Metal-casting molds and processes and materials for producing the same. 2,529,835, Nov. 14.

Damosel, Inc., assignee: *See*— Hall, Lawrence J. and M. R.

Danielsson, Paul, Stora Essingen, assignor to Arenco Aktiebolag, Stockholm, Sweden. Dressing fish. 2,529,920, Nov. 14.

Darlington, Henry S., Media, assignor to A. H. Wirz, Inc., Chester, Pa. Applicator for treatment of diseases of the udder. 2,529,836, Nov. 14.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Winding mechanism for deck hoists. 2,529,597, Nov. 14.

Daven Company, The, assignee: *See*— Keroes, Herbert I. Smith, John P., Jr.

Davey, Edward L., Hale, and F. R. Credland, Audenshaw, assignors to W. T. Glover & Company Limited, Trafford Park, Manchester, England. Fluid-tight joint for use between the parts of an electric cable system. 2,530,153, Nov. 14.

Davis, Arthur P., New York, assignor to Arma Corporation, Brooklyn, N. Y. Stable vertical element. 2,530,154, Nov. 14.

Davis, Elwood T., Brookline, Mass., assignor to Leeds and Northrup Company, Philadelphia, Pa. Electrical control system and apparatus. 2,530,326, Nov. 14.

Davis, Harold G., Denver, Colo. Impeller for dishwashing machines. 2,529,650, Nov. 14.

Davis, Raymond A., Seattle, Wash. Fishing boat hold and cold storage construction. 2,529,651, Nov. 14.

Davolt, Elton, Kelso, Wash. Starter booster. 2,529,921, Nov. 14.

Dean, David, and R. C. Houck, assignors to Eastman Kodak Company, Rochester, N. Y. Color process involving change in isoelectric point of gelatin. 2,529,922, Nov. 14.

Deanesly, Richard M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Reactor for high-temperature cracking. 2,529,598, Nov. 14.

De Conti, Peter, New Britain, Conn. Hand cultivator and weeder. 2,529,542, Nov. 14.

Deere Manufacturing Co., assignee: *See*— Jones, Frank D., and West.

De Lancey, Warren H., assignor to Atlantic Development Company, Springfield, Mass. Ejector pump refrigerating apparatus. 2,530,293, Nov. 14.

De Luca, Albert, New York, N. Y. Tone amplifier for musical instruments. 2,530,155, Nov. 14.

Denison Mattress Factory, assignee: *See*— Challenner, Ansel P.

Denison, William E., assignor to Tammen and Denison, Inc., Chicago, Ill. Double compartment nesting band package. 2,529,837, Nov. 14.

Deputy, Lena F.: *See*— Deputy, Lloyd R. and L. F.

Deputy, Lloyd R. and L. F., Jennings, La. Geophysical safety catch. 2,529,763, Nov. 14.

Derrick, Douglas D., St. Louis, Mo. Roll type collapsible tube squeezer. 2,530,327, Nov. 14.

Detweiler, Vernon F., Lansdale, Pa. Display carrier. 2,530,231, Nov. 14.

Devers, William M., Springfield, Ohio. Preparing intaglio printing surfaces. 2,530,232, Nov. 14.

Dewar, Norman F., Gages Lake, assignor to Graphic Calculator Company, Chicago, Ill. Slide rule. 2,530,047, Nov. 14.

Dick, Wade W., Shreveport, La. Brake pin tool. 2,529,599, Nov. 14.

Dicke, Allen A., Montclair, N. J., assignor to Crown Controls Company, Inc., New Bremen, Ohio. Limit switch. 2,529,652, Nov. 14.

Dickey, Joseph B.: *See*— Coover, Harry W., Guillet, and Dickey.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Monoazo compounds containing a 4-hydroxyquinolone-2 group. 2,529,924, Nov. 14.

Dickey, Joseph B., Rochester, N. Y., and J. G. McNally, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 2-(2-hydroxyethoxy)ethylamine. 2,529,923, Nov. 14.

Dickey, Paul S., East Cleveland, Ohio, assignor to Bailey Meter Company. Furnace fuel feeder control system. 2,530,117, Nov. 14.

Di Guglielmo, Joseph, Philadelphia, Pa. Sandal with integral retaining straps. 2,530,004, Nov. 14.

Display Lighting Incorporated, assignee: *See*— Price, Edison A.

Diuk, Stanley, assignor to Tru-Mark Mfg., Inc., Canton, Ohio. Stamp forming apparatus. 2,529,543, Nov. 14.

Dixon, Charles H., assignor to Ex-Cello-O Corporation, Detroit, Mich. Article delivery mechanism. 2,529,600, Nov. 14.

Dockray, Willie L., and R. H. Bruesewitz, Eau Claire, Wis. Repair unit for radio sets. 2,530,233, Nov. 14.

Dodds, Robert B., Woodbridge, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Scourer-aspirator and method. 2,529,679, Nov. 14.

Dodge Manufacturing Corporation, assignee: *See*— Firth, David.

Doggett, David L.: *See*— Schier, Wallace, and Doggett.

Donalson, Joe W., and K. B. Oberhansly, Panama City, Fla., said Oberhansly assignor to F. B. Hanna, Logansport, Ind. Boat trailer. 2,529,925, Nov. 14.

Dorgelo, Eduard G.: *See*— Jonger, Johan L. H., and Dorgelo.

Dorton, John M., Bonner Springs, Kans. Folding chair. 2,529,726, Nov. 14.

Dow Chemical Company, The, assignee: *See*— Britton, Edgar C., Vander Weele, and Livak. Havens, Carl B. Hunter, Melvin J. Morris, Elton K.

Dow Corning Corporation, assignee: *See*— Kohl, Charles F., Jr.

Downes, Kenneth W.: *See*— Lowe, Sherwin P., Long, Downes, and Kent.

Downs, William A., Hempstead, N. Y. Visible index. 2,529,926, Nov. 14.

Drake, Billy B.: *See*— Smythe, Carl V., Drake, and Neubeck.

Dravo Corporation, assignee: *See*— Rush, Ralph M.

Driscoll, Clare, Brookline, Mass., assignor to the United States of America as represented by the Secretary of War. Unbalanced-to-balanced impedance matching device. 2,530,048, Nov. 14.

Druge, Daniel O., Oakland, Calif. Pressure gauge. 2,530,005, Nov. 14.

Dubsky, Arthur, assignee: *See*— Wiessner, Robert.

Duffy-Mott Company, Inc., assignee: *See*— Melnick, Daniel.

Dufilho, Leon G., Shreveport, La. Magnetic compass. 2,529,764, Nov. 14.

Duman, Louis R., assignee: *See*— Epstein, Hirsch E.

Duncan, Jullan J., Garden City, assignor to Western Electric Company, Incorporated, New York, N. Y. Portable fluid applicator with controlled feed. 2,530,234, Nov. 14.

Dungler, Julien, Basel, Switzerland. Tenter. 2,530,118, Nov. 14.

Dungler, Julien, Basel, Switzerland. Tentering machine. 2,530,119, Nov. 14.

Dunn, Guy A., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Seeding apparatus. 2,529,727, Nov. 14.

Dunn, Joseph A., assignee: *See*— Ekblom, Olaf E.

Du Pont, E. I., de Nemours & Company, assignee: *See*— Flenner, Albert L. Smutz, Walter D.

Dutton-Lainson Company, assignee: *See*— Green, Harold C.

Dyson, Ernest F.: *See*— Blakeslee, Clinton A., Balanda, and Dyson.

Eagan, William A., Glen Rock, N. J. Sheet feeding mechanism for billing machines. 2,530,156, Nov. 14.

Eastman Kodak Company, assignee: *See*— Altman, Fred E., and Blash. Askren, Lee T. Caldwell, John R. Carver, Emmett K. Coover, Harry W., Guillet, and Dickey. Dickey, Joseph B. Dickey, Joseph B., and McNally. Dean, David, and Houck. Hale, Joseph B. Hopkins, Roy S. Houck, Robert B. Smith, Lawrence W. Thompson, Russell G. Vittum, Paul W.

Eaton Manufacturing Company, assignee: *See*— Oldberg, Sidney. Russell, Robert C.

Ebert, Walter, assignor to Tri-Clover Machine Co., Kenosha, Wis. Lift plug valve. 2,529,544, Nov. 14.

Eckman, Donald P., Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric proportioning controller with liquid-operated follow-up. 2,530,157, Nov. 14.

Edberger, Per, Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Air conditioning apparatus having control means. 2,530,158, Nov. 14.

Edelmann, E., & Co., assignee: *See*—
McClellan, Raymond H.

Edwards, Ray C., Glen Rock, N. J. Finned tubing. 2,529,545, Nov. 14.

Ehlert, Elmer R., assignor to Tipton Mfg. Co., Inc., Tipton, Iowa. Unloader for farm vehicles. 2,530,350, Nov. 14.

Eisele, Logan, Nashville, Tenn. Clinical thermometer. 2,530,235, Nov. 14.

Ekblom, Olaf E., Boylston, assignor of one-half to J. A. Dunn, Boston, Mass., and one-half to K. M. Hannum, New York, N. Y. Holder and printer for sales slips. 2,530,049, Nov. 14.

Electric & Musical Industries Limited, assignee: *See*—
Sommer, Alfred.

Electric Products Company, The, assignee: *See*—
Smith, Erasmus D.

Elgin Softner Corporation, assignee: *See*—
Kromhout, Andrew.

Elliott Company, assignee: *See*—
Mayers, Martin A.
McClure, Arthur W.

Ellis-Foster Company, assignee: *See*—
Rust, John B., and Canfield.

Ellithorpe, Gilbert S., Chicago, Ill. Rotary switch construction. 2,530,006, Nov. 14.

Endicott Trust Co., executor: *See*—
Ford, Eugene A.

Epelberg, Jack: *See*—
Pfeffer, Edward C., Jr., and Epelberg.

Eppler, Clarence K., Detroit, Mich. Sash holder. 2,530,192, Nov. 14.

Epstein, Hirsch E., assignor of one-half to L. R. Duman, Chicago, Ill. Terminal strip for electromagnets. 2,529,833, Nov. 14.

Erickson, Alvin L., assignor to Smith Cannery Machines Company, Seattle, Wash. Feeder gauging means for fish dressing machines. 2,529,800, Nov. 14.

Erickson, Eric C., assignor to Queen Cutlery Company, Titusville, Pa. Pocket knife. 2,530,236, Nov. 14.

Erickson, Fern L., Berkley, Mich. Simulated log serving bar. 2,530,120, Nov. 14.

Erickson, John G., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of N,N-dialkylacrylamides. 2,529,838, Nov. 14.

Esserkaln, Theodore F., Wauwatosa, and C. A. Parske, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Slotting machine. 2,529,680, Nov. 14.

Esson, Edwin, assignor to Locke Stove Company, Kansas City, Mo. Cookstove. 2,530,159, Nov. 14.

Euzent, Simon, Baltimore, Md. Fishing hook snapper. 2,530,007, Nov. 14.

Evans, Enoch, Great Bend, Kans. Signaling device for fishing lines. 2,530,050, Nov. 14.

Evans, H. C., & Company, assignee: *See*—
Andres, Lloyd J.

Evers, Edward P., Overland, Mo. Tripod head for cameras and the like. 2,530,294, Nov. 14.

Ex-Cell-O Corporation, assignee: *See*—
Dixon, Charles H.

Exner, Hellmuth A. A., Florida, Argentina. Centrifugally operated machine. 2,529,765, Nov. 14.

Fa-Cile Fastener Corporation, assignee: *See*—
Lamarthe, Alfred E.

Fairbanks, Morse & Co., assignee: *See*—
Vogel, Edward A., and Lindbeck.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Gackl, Leonard W.

Fales, Forrest G., Marblehead, assignor to Sylvania Electric Products Inc., Salem, Mass. Sequential inspection recorder. 2,530,351, Nov. 14.

Fallows, Leonard and E. V. Mellers, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of hydrogen cyanide. 2,529,546, Nov. 14.

Fantz, Fred C., Logan Township, Auglaize County, Ohio, assignor to Henry Pratt Company. Swinging slide valve. 2,530,295, Nov. 14.

Faust, Silas T., assignee: *See*—
Phillips, Robert A.

Federal-Mogul Corporation, assignee: *See*—
Cody, Richard J.

Feiss, René: *See*—
Wiederkehr, Hans, and Feiss.

Felici, Noël, Grenoble, assignor to Centre National de la Recherche Scientifique, Paris, France. Electrostatic machine. 2,530,193, Nov. 14.

Ferguson, Robert O., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Fuse or heat exploded link. 2,530,051, Nov. 14.

Ferry, Paul F., Glenfield, Pa. Latch-in relay. 2,530,194, Nov. 14.

Fey, Albert, assignor to Makall Corporation, Detroit, Mich. Fish lure. 2,530,008, Nov. 14.

Field, William J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor control system. 2,529,490, Nov. 14.

Fields, Mack R., Chicago, assignor to Abbott Laboratories, North Chicago, Ill. Tablet counting device. 2,530,009, Nov. 14.

Finley, Harold L., Woodhaven, assignor, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Oil burner vaporizer and igniter. 2,530,237, Nov. 14.

Finley, Virgil A., Topeka, Kans. Door seal. 2,530,160, Nov. 14.

Florini, Walter, Binningen, assignor to Ciba Limited, Basel, Switzerland. Vat dyestuffs. 2,530,010, Nov. 14.

Firmenich & Co., Successeurs de la societe anonyme M. Naef & Cie., assignee: *See*—
Stoll, Max.

Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Bearing seal. 2,530,052, Nov. 14.

Fischer, Donald H.: *See*—
Simpkins, Nathaniel J., and Fischer.

Fisher, George H., New York, N. Y. Pocket atomizer. 2,530,161, Nov. 14.

Fisher, Joseph F., assignor to Philco Corporation, Philadelphia, Pa. Frequency divider. 2,529,547, Nov. 14.

Fisk, George D., Bellflower, Calif. Hinged telescope gun sight mount. 2,529,801, Nov. 14.

Fisk, Howard W., Juneau, Alaska. Hairbrush with slidable bristle cleaning means attached thereto. 2,529,927, Nov. 14.

Flanagan, Bryan W.: *See*—
Benoliel, Robert W., and Flanagan.

Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fused DDT compositions containing an absorbent inert. 2,529,681, Nov. 14.

Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 2,2-bis (4-methoxyphenyl)-1,1,1-trichloroethane insecticidal dust and making same. 2,529,682, Nov. 14.

Fletcher, Lynn: *See*—
Winks, John, and Fletcher.

Flex-O-Glass, Inc., assignee: *See*—
Warp, Harold.

Flodquist, Carl E.: *See*—
Whichard, Thomas F., Sr., Flodquist, C. E. and O. B.

Flodquist, Oscar B.: *See*—
Whichard, Thomas F., Sr., Flodquist, C. E. and O. B.

Flood, James H.: *See*—
Van Buskirk, Edward C., Streed, and Flood.

Ford, Eugene A., deceased, Endicott, N. Y., by Endicott Trust Co., executor; Endicott, assignor to International Business Machines Corporation, New York, N. Y. Tube failure detection circuit. 2,529,928, Nov. 14.

Forssell, Harry, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Västerås, Sweden. Producing a constant current. 2,530,011, Nov. 14.

Fortin, Charles A., assignor to Presto Lighters Limited, Montreal, Quebec, Canada. Pocket lighter. 2,530,328, Nov. 14.

Foster, Maurice, deceased, by R. T. Rehwald, administrator, Rockford, Ill., assignor to Twin Disc Clutch Company, Racine, Wis. Blade blocks in hydraulic couplings. 2,529,929, Nov. 14.

Foulke, Louise M. J., Brooklyn, N. Y. Tricycle. 2,529,930, Nov. 14.

Fox, Clarence D., Quebec, Quebec, assignor of twenty one-hundredths to M. S. Cotterell, North Sidney, Nova Scotia, Canada, and twenty-five one-hundredths to C. E. McCormick, Fremont, Ohio. Apparatus for conditioning bagged material. 2,529,548, Nov. 14.

Fox, Martin, Chicago, Ill., assignor to The Seng Company. Yieldable connector for the back rest of chairs. 2,529,683, Nov. 14.

Frans, Erwin E., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Support for hollow articles providing means to control the cooling of the material within the article. 2,530,238, Nov. 14.

Fraser, Reginald P.: *See*—
Austin, Archibald S., Sapiro, and Fraser.

Fredstrom, Gustave T., Chicago, Ill. Master-control clock. 2,529,869, Nov. 14.

Frechafer, John E., assignor to General Railway Signal Company, Rochester, N. Y. Flight calculator for airplanes. 2,529,601, Nov. 14.

Friden Calculating Machine Co., Inc., assignee: *See*—
Moody, John L.

Frohmader, Stanley H., assignor to Research Products Corporation, Madison, Wis. Ion exchange material and making the same. 2,529,602, Nov. 14.

Frommer, Eugene, New York, N. Y. Threading toolholder. 2,530,162, Nov. 14.

Fyler, George W., Lombard, Ill., assignor to Motorola, Inc. Television receiver antenna input circuit. 2,530,329, Nov. 14.

Gackl, Leonard W., Jamaica, N. Y., assignor to Fairchild Camera and Instrument Corporation. Intervalometer. 2,529,728, Nov. 14.

Gadzuk, John, Drexel Hill, Pa. Smoke control. 2,529,491, Nov. 14.

Gahris, Donald G., Union City, Ohio. Card holder. 2,530,296, Nov. 14.

Gallasch, Bernhardt G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope. 2,530,352, Nov. 14.

Gallegos, Carlos: *See*—
Henares, Frank, and Gallegos.

Gallup, John F., Sr., Newington, Conn. Auxiliary contact for calipers. 2,529,931, Nov. 14.

Galt, Ellis C., Pacific Grove, Calif. Can selector. 2,529,603, Nov. 14.

Garber, John D.: *See*—
Sparks, William J., and Garber.

Garet, Pierre: *See*—
Bessot, Leonce E., and Garet.

Gartner, Lawrence E., Hasbrouck Heights, and J. W. Allen, Montclair, assignors to Bendix Aviation Corporation, Teterboro, N. J. Exciter control. 2,529,766, Nov. 14.

Garvey, Thomas H., Natick, and P. V. Scally, Randolph, Mass. Air conditioner. 2,529,839, Nov. 14.

Garwood, Norman F., Indianapolis, Ind. Line anchoring device. 2,530,121, Nov. 14.

Gass, Karl W., assignor to Amsler Morton Corporation, Pittsburgh, Pa. Support for conveyer rollers. 2,529,684, Nov. 14.

Gates, Clarence S., West Hartford, assignor to Allen Manufacturing Company, Hartford, Conn. Tool handle. 2,530,297, Nov. 14.

Geisse, John H., Madison, Wis. Airplane cross-wind undercarriage. 2,529,932, Nov. 14.

Geisse, John H., Madison, Wis. Airplane cross-wind undercarriage. 2,529,933, Nov. 14.

General Aniline & Film Corporation, assignee: *See*—
Craig, Winfred C.
Grimmel, Harry W., and Guenther.

General Bronze Corporation, assignee: *See*—
Finley, Harold L.
Peremi, Edmund, and Weimann.

General Cellulose Company, Inc., The, assignee: *See*—
Taggart, Donald C.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Crowley, George C.
Mershon, Alfred V.
Scoles, Graham J.

General Motors Corporation, assignee: *See*—
Candor, Robert R.

General Nailing Machine Corporation, assignee: *See*—
Benson, Harry D.

General Railway Signal Company, assignee: *See*—
Coley, Nelson B.
Frechafer, John E.

General Refractories Company, assignee: *See*—
Heuer, Russell P.

Germann, Richard P., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Bis-substituted chlorodiazines and preparation thereof 2,529,840, Nov. 14.

Gevaert Photo-Producten N. V., assignee: *See*—
Van Dormael, André E., and van der Auwera.

Giacobello, Antonino, Pasadena, Calif. Air moistener. 2,530,195, Nov. 14.

Gilbert, Alva B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Positive clutch mechanism. 2,529,492, Nov. 14.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.
Thomas, Cecil A. P.

Gillis, Selby J., and L. W. Simons, Arabi, La. Folding seat. 2,530,239, Nov. 14.

Gilmore, Emmett J., Montrose, and E. P. and Z. Lutz, Los Angeles, Calif. Reciprocating measuring pockets having volume varying means. 2,529,654, Nov. 14.

Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Lubricating device. 2,529,685, Nov. 14.

Glass, Thomas C., La Grange, Ga. Tractor wheel guard. 2,530,053, Nov. 14.

Glass, Willie F., Gulfport, Miss. Cleaning machine for dry and wet cleaning of garments and the like. 2,529,802, Nov. 14.

Glover, W. T. & Company Limited, assignee: *See*—
Davey, Edward L., and Credland.

Goddin, Harvie W., and E. V. Bulow, Washington, D. C. Composition rail tie. 2,529,841, Nov. 14.

Golasky, Adolph W., National Park, N. J. Rotating disk power lawn mower. 2,529,870, Nov. 14.

Gonze, Max, Forest-Brussels, assignor to "Solvay & Cie," Brussels, Belgium. Photochemical preparation of γ benzene hexachloride. 2,529,803, Nov. 14.

Gooch, William A., Istrouma, La. Antijamming attachment for typewriters. 2,529,604, Nov. 14.

Good, Sidney B., assignee: *See*—
Conway, Edward S., and Amendolara.

Goodrich, B. F., Company, The, assignee: *See*—
Ambler, Robert R., and Weston.
Bowen, Claude T.
Carlson, Earl J.
Hasselquist, Victor H.
Hollerith, Charles.
Sears, Daniel S.

Goodwin, Reginald, assignor to George Angus and Company Limited, Newcastle-upon-Tyne, England. Forming endless toroidal wire spring belts. 2,530,163, Nov. 14.

Gordon, Arthur, Chicago, Ill. Liquid separator. 2,530,054, Nov. 14.

Gorfin, Alex M., New York, assignor to Legion Utensils Co., Long Island City, N. Y. Pressure cooker closure. 2,529,767, Nov. 14.

Gracey, Dale, Osceola, and E. Cain, Leon, Iowa. Cutter attachment for tractors. 2,529,934, Nov. 14.

Graham, John H., Spokane, Wash. Sleigh runner attachment. 2,530,240, Nov. 14.

Graphic Calculator Company, assignee: *See*—
Dewar, Norman F.

Gray, G. A., Company, The, assignee: *See*—
Walter, John M.

Green, Freddie C., Altoona, Ala. Air bag stem. 2,530,055, Nov. 14.

Green, Harold C., assignor to Dutton-Lainson Company, Hastings, Nebr. Bumper hitch. 2,529,686, Nov. 14.

Greenbaum, Bernard J., Westport, Conn. Table and chair. 2,529,687, Nov. 14.

Grierson, Sarah F., Roslindale, Mass. Hand electric iron curtain ruffler. 2,530,196, Nov. 14.

Griffith, Richard: *See*—
Kapp, Roland, and Griffith.

Grimmel, Harry W., Riegelsville, and A. Guenther, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Acid-fading inhibition using certain 1,4-diaryl piperazines. 2,529,935, Nov. 14.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Automatic safety shutoff valve for hose nozzles. 2,529,036, Nov. 24.

Groeger, Alfred H., New Hyde Park, assignor to Kason Hardware Corporation, Brooklyn, N. Y. Sliding door lock. 2,530,330, Nov. 14.

Gronemeyer, Erich, Pompton Plains, and S. Cherba, Totowa, N. J. Dispensing attachment for liquid container neck, having a reciprocable measuring trap combined with a dispensing valve. 2,530,012, Nov. 14.

Grupp, Edward L., Glendale, Calif. Electric fluid heater. 2,529,688, Nov. 14.

Guenther, Alfred: *See*—
Grimmel, Harry W., and Guenther.

Guillet, James E.: *See*—
Coover, Harry W., Guillet, and Dickey.

Gustafson, August W., Corpus Christi, Tex. Liquid regulating assembly in a spray nozzle system. 2,529,605, Nov. 14.

Guy, Charles M., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Self-aligning sleeve for pressure-type gas burners and the like. 2,529,768, Nov. 14.

Hagan Corporation, assignee: *See*—
Otto, Harry A.

Hale, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Liquid metering device. 2,529,937, Nov. 14.

Hall, Lawrence J. and M. R., Suffern, N. Y., assignors to Damosel, Inc. Hair curler. 2,530,197, Nov. 14.

Hall, May R.: *See*—
Hall, Lawrence J. and M. R.

Hallewell, George, assignor to Blackstone and Company Limited, Stamford, England. Caster with angular vibration damper. 2,529,769, Nov. 14.

Hallicrafters Co., The, assignee: *See*—
Case, Nelson P.

Halpern, Irving A., North Hollywood, Calif. Cleaning cement surfaces preparatory to painting. 2,529,549, Nov. 14.

Hanback, Frank G., Allegany, N. Y. Magnetic toy. 2,530,013, Nov. 14.

Handler, Julius J., Chicago, and D. B. Pratt, Jr., Evanston, assignors to Chapman & Smith Company, Chicago, Ill. Nutritional and conditioning composition for baked wheat flour products. 2,530,046, Nov. 14.

Hanna, Frederick B., assignee: *See*—
Donalson, Joe W., and Oberhansly.

Hannum, Katherine M., assignee: *See*—
Ekblom, Olaf E.

Hanson, Andrew R., Oklahoma City, Okla. Gas safety valve. 2,529,770, Nov. 14.

Hanson, Roy M., Oakland, Calif. Maintaining accuracy of precision ammeters. 2,529,729, Nov. 14.

Harlow, William R., U. S. Navy. Apparatus for treating film or the like. 2,529,495, Nov. 14.

Harnischfeger Corporation, assignee: *See*—
Hettelsater, Henry C.

Harnischfeger, Walter, Milwaukee, and G. Koehler, Madison, Wis. Remote hoist control. 2,529,804, Nov. 14.

Harper, James K., assignor to A. B. Chance Company, Centralia, Mo. Manual controlled device for automatic circuit recloser mechanisms. 2,530,298, Nov. 14.

Harrington, Ferris T., assignor to Vickers Incorporated, Detroit, Mich. Power transmission for refrigerated motor vehicles. 2,530,241, Nov. 14.

Harrington, Ferris T., assignor to Vickers Incorporated, Detroit, Mich. Pump or motor for power transmissions. 2,530,242, Nov. 14.

Harris, Ford W.: *See*—
Salsbury, Esley F., and Harris.

Harris, Walter A., Haddonfield, N. J., assignor to Radio Corporation of America. Two-way radio communication system. 2,529,550, Nov. 14.

Harris, Walter D., Naugatuck, H. D. Tate, Woodbridge, and J. W. Zukel, Hamden, Conn., assignors to United States Rubber Company, New York, N. Y. Chloroalkyl alkyl sulfites as new chemicals and insecticides. 2,529,493, Nov. 14.

Harris, Walter D., Naugatuck, H. D. Tate, Woodbridge, and J. W. Zukel, Hamden, Conn., assignors to United States Rubber Company, New York, N. Y. Chloroalkyl aryloxyalkyl sulfites as new chemicals and insecticides. 2,529,494, Nov. 14.

Harshbarger, Elmer D., Pittsburgh, Pa. Waterworks valve position indicator operating mechanism. 2,530,164, Nov. 14.

Hart, Harry L.: *See*—
Bugg, Kenly C., and Hart.

Hart, Joseph S., Jr., San Leandro, Calif. Cigarette extinguisher. 2,529,871, Nov. 14.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Hugenholtz, Eduard H., and Scholten.
Jonker, Johan L. H., and Dorgelo.
Van Loon, Carel J., and Broos.

Harton, Erskine E.: *See*—
Ayers, George W., and Harton.

Harruff, Frank B., assignor to Bowser, Inc., Fort Wayne, Ind. Filtering apparatus. 2,530,198, Nov. 14.

Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Detachable latch arm for door fasteners. 2,529,606, Nov. 14.

Hasselquist, Victor H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Collapsible container. 2,529,872, Nov. 14.

Hausam, Edward F., Normandy, Mo. Machine lathe. 2,529,551, Nov. 14.

Havens, Carl B., Hope, assignor to The Dow Chemical Company, Midland, Mich. Thermostable polymeric vinylidene chloride composition. 2,530,353, Nov. 14.

Hawkes, William M., Jr.: *See*—
Brodie, George R., and Hawkes, Jr.

Hayes, Dudley W.: *See*—
Bluhm, Fred A., Hayes, and Zeigler.

Hayes, Thomas E., Washington, D. C. Safety device for money counting machines. 2,530,057, Nov. 14.

Hayslett, Lamar E., Kenmore, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Multicontact connector. 2,530,354, Nov. 14.

Hearndon, Jesse F., Fellsmere, Fla. Frog gig. 2,529,938, Nov. 14.

Hebard, Hugh C., assignor to Aladdin Industries Limited, Greenford, England. Radiator for space heating. 2,530,058, Nov. 14.

Heller, George L., Monroe, La., assignor to Columbian Carbon Company. Manufacture of carbon black. 2,529,873, Nov. 14.

Henares, Frank, San Leandro, and C. Gallegos, Decoto, Calif. Leveling labels transversely for labeling. 2,529,730, Nov. 14.

Hendley, Cornelia S., executrix: *See*—
Hendley, Flavius J.

Hendley, Flavius J., deceased, Chattanooga, Tenn., by C. S. Hendley, executrix, Columbia, Tenn. Electrical tap clamp. 2,530,299, Nov. 14.

Henning, Otto, Clayton, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor accelerating pump. 2,529,655, Nov. 14.

Henry, Ronald A.: *See*—
Brod, John S., and Henry.

Henry, Ronald A., Inyokern, Calif., and J. S. Brod, Wyoming, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio. Sulfonation of olefins. 2,529,538, Nov. 14.

Hanson, Arthur L., Minneapolis, Minn. Device for scribing fluid adhesives. 2,530,199, Nov. 14.

Henstridge, Alec G.: *See*—
Owner, Frank M., and Henstridge.

Herbert, Charles C.: *See*—
Abildgaard, William, and Herbert.

Herman, George W., Long Hill, Conn. Golf practice tee. 2,529,771, Nov. 14.

Herold, Robert E., Cleveland, assignor to The Weatherhead Company, Cuyahoga County, Ohio. Tube coupling with rubber seal. 2,529,552, Nov. 14.

Herr, Clarence S., Jr.: *See*—
Bumbera, Edmund A., and Herr.

Hess, Frederic G., assignor to Selas Corporation of America, Philadelphia, Pa. Heat-treating metal work of elongated extent. 2,529,689, Nov. 14.

Hess, Frederic G., assignor to Selas Corporation of America, Philadelphia, Pa. Heating apparatus. 2,529,690, Nov. 14.

Hettelsater, Henry C., Whitefish Bay, assignor to Harnischfeger Corporation, Milwaukee, Wis. Binder supply system. 2,529,656, Nov. 14.

Heuer, Russell P., Villa Nova, Pa., assignor to General Refractories Company. Suspended furnace roof. 2,529,607, Nov. 14.

Hickok, Ward, assignee: *See*—
Roysher, Hudson B.

Higgins, Ray C., Charleston, Ill. Rafter gauge. 2,529,939, Nov. 14.

Highberg, George A., West Hartford, Conn. Chuck operating mechanism. 2,529,772, Nov. 14.

Higley, Walter C., Hillsdale, Mich. Folding leg table. 2,529,940, Nov. 14.

Hiller, Fritz E.: *See*—
Jensen, Harry T., and Hiller.

Hirschler, Alfred E., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Separation of normal paraffins. 2,530,300, Nov. 14.

Hoak, Richard D., Mount Lebanon Township, Allegheny County, assignor to Mellon Institute of Industrial Research, Pittsburgh, Pa. Manufacturing ammonium salts and magnetic iron oxide from solutions of ferrous salts. 2,529,874, Nov. 14.

Hobbs, Howard F., assignor to Hobbs Transmission Limited, Leamington Spa, England. Transmission. 2,530,200, Nov. 14.

Hobbs Transmission Limited, assignee: *See*—
Hobbs, Howard F.

Hoenie, Norman J.: *See*—
Landis, George G., and Hoenie.

Hoffmann-La Roche, Inc., assignee: *See*—
Businger, Albert.
Isler, Otto.

Holdam, James V., Jr., and L. M. Jones, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio object location indicator. 2,530,060, Nov. 14.

Holder, Clinton H., Cranford, N. J., assignor to Standard Oil Development Company. Hydrocarbon synthesis. 2,530,243, Nov. 14.

Hollerith, Charles Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Debooster. 2,529,731, Nov. 14.

Hollister, Frederick L., Richmond, England. Thermostatic switch. 2,529,941, Nov. 14.

Holly, Harry H., Chicago, Ill., assignor to Holly Molding Devices, Inc. Molding device. 2,530,061, Nov. 14.

Holly, Harry H., Chicago, Ill., assignor to Holly Molding Devices, Inc. Patty molding device. 2,530,062, Nov. 14.

Holly Molding Devices, Inc., assignee: *See*—
Holly, Harry H.

Holmes, Lydia M., St. Augustine, Fla. Knockdown wheeled toy. 2,529,692, Nov. 14.

Holmes, Samuel A., Storm Lake, Iowa. Chain construction. 2,530,014, Nov. 14.

Holstein, Alvin W., and D. F. McCarron, assignors to Knapp-Monarch Company, St. Louis, Mo. Churn. 2,529,691, Nov. 14.

Holthouse, Harry B., Chicago, Ill., assignor, by mesne assignments, to Vapor Heating Corporation. Fuel feed control for oil burners. 2,529,942, Nov. 14.

Hood, Stanley R., Birmingham, Mich. Thermal safety pilot switch. 2,530,059, Nov. 14.

Hook, Edwin O., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Catalytic plasticizers for natural and synthetic rubber. 2,530,355, Nov. 14.

Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic recording equipment. 2,529,943, Nov. 14.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Web guide. 2,530,122, Nov. 14.

Horne, Hal, New York, N. Y. Musical instrument. 2,529,693, Nov. 14.

Houck, Robert B., assignor to Eastman Kodak Company, Rochester, N. Y. Multiple image view finder. 2,529,944, Nov. 14.

Houck, Robert C.: *See*—
Dean, David, and Houck.

Houdaille-Hershey Corporation, assignee: *See*—
Hufferd, George H.

Howard, George E., Gates, assignor to Taylor Instrument Companies, Rochester, N. Y. Control system with remote set point adjustment and with remote indication. 2,529,875, Nov. 14.

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Container forming machine. 2,529,732, Nov. 14.

Howe, Robert E.: *See*—
Kimball, Thomas B., and Howe.

Hoy, John B., Detroit, Mich., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Clamp device for rubbing machines. 2,530,301, Nov. 14.

Hubbs, Henry E., assignor to The Shelby Spring Hinge Co., Shelby, Ohio. Adjustable hinge mechanism. 2,530,331, Nov. 14.

Hudson, Boyd E., Jr., Cranford, N. J., assignor to Standard Oil Development Company. Separation of tertiary monohexenes and preparation of 2-methylpentanol-2. 2,530,332, Nov. 14.

Hudson Bay Mining and Smelting Co. Limited, assignee: *See*—
Lowe, Sherwin P., Long, Downes, and Kent.

Hueneman, Victor C., Garner, Iowa. Unloading endgate for trucks. 2,529,608, Nov. 14.

Hufferd, George H., Shaker Heights, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Picker stick linkage. 2,529,694, Nov. 14.

Hufferd, George H., Shaker Heights, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Picker stick slide linkage. 2,529,695, Nov. 14.

Hufferd, George H., Shaker Heights, Ohio, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Hydraulic picker stick check. 2,529,696, Nov. 14.

Hugenholtz, Eduard H., and E. Scholten, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit for frequency control. 2,530,165, Nov. 14.

Hughes, Everett C., Cleveland Heights, Ohio, and M. H. Campbell, Wilmington, Del., assignors to The Standard Oil Company, Cleveland, Ohio. Fuel having improved knock qualities. 2,529,496, Nov. 14.

Hughes, John O. P.: *See*—
Bedale, Paul W., and Hughes.

Hull, Samuel P., Wilton, Conn. Joint. 2,529,697, Nov. 14.

Hunt, Rodney, Machine Company, assignee: *See*—
Belcher, Harold H.

Hunt, William E.: *See*—
Sikorsky, Igor I., Hunt, and Katzenberger.

Hunter, Ira, assignor of one-half to I. S. Kendall, Carlisle, Ky. Machine-sickle sharpener. 2,529,805, Nov. 14.

Hunter, Melvin J., assignor to The Dow Chemical Company, Midland, Mich. High vacuums. 2,530,356, Nov. 14.

Hunter, William, Spondon, near Derby, England, assignor to Celanese Corporation of America. Preparation of aliphatic alcohols. 2,529,553, Nov. 14.

Hutchinson, James F.: *See*—
Abbott, Sylvia H., and Hutchinson.

Hydrocarbon Research, Inc., assignee: *See*—
Scheibel, Edward G.

Hyman, Nathaniel, Woodmere, N. Y. Molded surface ornamentation. 2,529,945, Nov. 14.

Ide, George H., assignee: *See*—
Tarwater, Lawson.

Imbert, Roger J.: *See*—
Sédille, Marcel H. L., and Imbert.

Imbert, Roger J., assignor to Societe Rateau (Societe Anonyme), Paris, France. Cooling device for the casings of thermic motors, including gas turbines. 2,529,946, Nov. 14.

Imperial Chemical Industries Limited, assignee: *See*—
Myles, James R., and Ray.
Whitworth, Edward, and Thomson.

Ingwer, Max, assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Adjustable sewing machine light. 2,530,123, Nov. 14.

Innacelli, Frank L., Red Bank, N. J. Paper file fastener. 2,529,497, Nov. 14.

Institute of Gas Technology, assignee: *See*—
Singh, Alamjit D.

International Business Machines Corporation, assignee: *See*—
Ford, Eugene A.

International Electronics Company, The, assignee: *See*—
Pond, Chester C.

Iselin, Ernst: *See*—
Wehrli, Walter and Iselin.

Isler, Otto, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of pentaenes. 2,529,498, Nov. 14.

Jacob, Morris L., assignor to Pittsburgh Annealing Box Company, Pittsburgh, Pa. Circular annealing inner cover. 2,529,609, Nov. 14.

Jagenburg, E. R., Inc., assignee: *See*—
Jagenburg, Eugene R.

Jagenburg, Eugene R., assignor to E. R. Jegenburg Inc., Brooklyn, N. Y. Machine for peeling prepared fruits. 2,530,063, Nov. 14.

Jagenburg, Eugene R., assignor to E. R. Jagenburg, Inc., Brooklyn, N. Y. Machine for decrowning pineapples. 2,530,201, Nov. 14.

Jakeway, Gerald V.: *See*—
Keeler, Isaac S., and Jakeway.

Jankelson, Bernard, Seattle, Wash. Saliva ejector. 2,529,499, Nov. 14.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jensen, Harry T., Milford, and F. E. Hiller, Stratford, assignors to United Aircraft Corporation, East Hartford, Conn. Centrifugal clutch. 2,529,610, Nov. 14.

Jensen, Søren J. F., Shanghai, China. Degumming and bleaching ramie. 2,530,244, Nov. 14.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Case for motor units. 2,530,302, Nov. 14.

Jofeh, Lionel, Stonehouse, assignor of one-half to A. C. Cossor Limited, London, and one-half to The Sperry Gyroscope Company Limited, Brentford, England. Generator for electrical oscillations. 2,529,876, Nov. 14.

Johannsen, Udo K., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Grill. 2,530,166, Nov. 14.

Johansson, Johan E., assignor to Aktiebolaget Gotaverken, Goteborg, Sweden. Power plant. 2,529,773, Nov. 14.

Johns-Manville Corporation, assignee: *See*—
Powell, Edward R.

Johnson, John G. A., New York, N. Y. Apparatus for drying and expediting the setting of plastic concrete. 2,529,500, Nov. 14.

Johnson, Nels H., and H. A. Andrews, Southbridge, Mass. Doorstop and catch assembly. 2,530,365, Nov. 14.

Johnson, Richard A., West Union, Iowa. Clutch-head torque indicating wrench. 2,529,947, Nov. 14.

Johnston, Wayburn E., Minneapolis, Minn. Reel for motion-picture film and the like. 2,529,501, Nov. 14.

Jones, Alton H., Canandaigua, assignor of one-half to J. Bain, Palmyra, N. Y. Combined hoist and dock. 2,529,948, Nov. 14.

Jones, Bernard E.: *See*—
Jones, Geoffrey B. and B. E.

Jones, Clarence W., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Bent coaxial transmission line. 2,530,064, Nov. 14.

Jones, Frank D., and J. R. West, Ottumwa, Iowa, assignors to Deere Manufacturing Co. Baling press tailboard. 2,529,842, Nov. 14.

Jones, Geoffrey B., Oak Park, and B. E. Jones, Oakland, Mich. Cutter. 2,529,949, Nov. 14.

Jones, Lloyd M.: *See*—
Holdam, James V., Jr., and Jones.

Jonker, Johan L. H., and E. G. Dorgelo, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Discharge tube. 2,530,167, Nov. 14.

Jost, John H., Little Falls, Minn. Apparatus for repairing radiators. 2,530,333, Nov. 14.

Joy Manufacturing Company, assignee: *See*—
Woolf, James W.

Julius, Earl T., Skokie, Ill. Filter apparatus. 2,529,698, Nov. 14.

Kallam, Floyd L., Pasadena, Calif. Water-tube boiler. 2,529,611, Nov. 14.

Kapp, Roland, Newark, and R. Griffith, Shrewsbury, assignors to Nopco Chemical Company, Harrison, N. J. Hydrolysis of steroid semicarbazones. 2,530,334, Nov. 14.

Kason Hardware Corporation, assignee: *See*—
Groeger, Alfred H.

Kateley, Francis W., Upper Darby, assignor to ACF-Brill Motors Company, Philadelphia, Pa. Fuel pump mounting. 2,530,357, Nov. 14.

Kather, Erich N., South Lincoln, assignor to Raytheon Manufacturing Company, Newton, Mass. Tunable electron discharge device. 2,529,950, Nov. 14.

Katzenberger, Edward F.: *See*—
Sikorsky, Igor I., Hunt, and Katzenberger.

Katzmann, Helmuth R., Buffalo, N. Y. Closure for collapsible tubes. 2,529,554, Nov. 14.

Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. 2,529,555, Nov. 14.

Kaye, Kenneth I., Green Bay, Wis. Combination play pen and sandbox. 2,529,951, Nov. 14.

Kayser, Allan J., Denver, Colo. Mower attachment for motor vehicles. 2,529,612, Nov. 14.

Kearney & Trecker Corporation, assignee: *See*—
Eserkaln, Theodore F., and Parske.

Keeler Brass Company, assignee: *See*—
Keeler, Isaac S., and Jakeway.

Keeler, Isaac S., and G. V. Jakeway, assignors to Keeler Brass Company, Grand Rapids, Mich. Door handle. 2,530,303, Nov. 14.

Kehrer, Eddie R., Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Contact mass level control. 2,529,843, Nov. 14.

Keller, Fred M., Grand Rapids, Mich. Flush lever. 2,529,844, Nov. 14.

Keller, Stefan, Munchen-Pasing, Germany. Apparatus for manufacture of trusses. 2,529,556, Nov. 14.

Keller Tool Company, The, assignee: *See*—
Shaff, Ernest H.

Kelly, Howard A., Sr., assignor to Wheeling Stamping Company, Wheeling, W. Va. Plastic molding apparatus. 2,530,245, Nov. 14.

Kelly, William I., Quakertown, Pa., and J. R. Livingood, White Plains, N. Y., assignors to the United States of America as represented by the Secretary of War. Tube socket. 2,529,502, Nov. 14.

Kendall, Ivan S., assignee: *See*—
Hunter, Ira.

Kendra, Frank: *See*—
Wityaz, William, and Kendra.

Kennametal Inc., assignee: *See*—
McKenna, Philip M.

Kennedy, John J., Richmond Hill, N. Y. Combined pen and pencil holder. 2,529,657, Nov. 14.

Kent, George H.: *See*—
Lowe, Sherwin P., Long, Downes, and Kent.

Kern, Walter: *See*—
Moergell, Eduard, Sutter, and Kern.

Keroes, Herbert L., Irvington, assignor to The Daven Company, Newark, N. J. Mechanism for setting the needles or indicating hands of hermetically sealed voltmeter or analogous instruments. 2,529,557, Nov. 14.

Key Company, assignee: *See*—
Arnette, Dale.

Kieckhefer, Robert J., Brookfield, assignor to American Lace Paper Company, Milwaukee, Wis. Nested cup. 2,530,124, Nov. 14.

Kiel, Hans R.: *See*—
Russell, Carl, and Kiel.

Kimball, Thomas B., Greenwich, Conn., and R. E. Howe, Sinclair, Wyo., assignors to Sinclair Refining Company, New York, N. Y. Cracking apparatus. 2,529,503, Nov. 14.

King, John A., Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Serine synthesis. 2,530,065, Nov. 14.

King, Rufus A., Wichita Falls, Tex. Firearm. 2,529,733, Nov. 14.

Kirkpatrick, Ruel, and H. B. Young, assignors to Mission Manufacturing Company, Houston, Tex. Sleeve type slush pump liner. 2,530,246, Nov. 14.

Kirkwood, Walter B., Tipton, and W. R. Stevens, Atlanta, assignors to Tipton Furniture Company, Inc., Tipton, Ind. Rocker suspension. 2,529,619, Nov. 14.

Kittleson, Allen R.: *See*—
Mikeska, Louis A., and Kittleson.

Klingebiel, Anthony T., Richmond, Ind. Dumping body. 2,529,558, Nov. 14.

Knapp, Marion A., assignee: *See*—
Snider, Kenneth M.

Knapp-Monarch Company, assignee: *See*—
Holstein, Alvin W., and McCarron.

Knight, George H. F., Basingstoke, England. Power-driven agricultural and like implements. 2,529,614, Nov. 14.

Knochel, William J., East Orange, and C. Wiener, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for making stems for electrical devices. 2,530,168, Nov. 14.

Koehler, Glenn: *See*—
Harnischfeger, Walter, and Koehler.

Kohl, Charles F., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Halogenohydrocarbon derivatives of silanes. 2,530,202, Nov. 14.

Konopka, Edward J.: *See*—
Konopka, Joseph and E. J.

Konopka, Joseph and E. J., Detroit, Mich. Vehicle suspension. 2,529,806, Nov. 14.

Koons, John C., Fort Wayne, Ind. Wire fence fabric having selected horizontal strands electrically insulated. 2,530,247, Nov. 14.

Kouri, Addy S., Oklahoma City, Okla. Trellis. 2,530,015, Nov. 14.

Krafft, Joseph M., Alexandria, Va. Apparatus for continuously and instantly measuring efficiency. 2,529,615, Nov. 14.

Kraker, Bernard I., Melrose, assignor of fifty per cent to F. H. Roeder, Sauk Centre, Minn. Rocker arm cover vapor receiver. 2,529,616, Nov. 14.

Kramer, Charles M.: *See*—
Maged, Julius, and Kramer.

Krause, Frederick A., assignee: *See*—
Coppock, Franklin E.

Kreamer, William H., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Traverse mechanism for winding machines. 2,529,559, Nov. 14.

Kreitner, John, New York, assignor to Sixtal Development Company, Beacon, N. Y. Rotary computer. 2,530,304, Nov. 14.

Kroeger, William J., and C. W. Musser, Philadelphia, Pa. Ammunition for recoilless firearms. 2,529,504, Nov. 14.

Kromhout, Andrew, assignor to Elgin Softner Corporation, Elgin, Ill. Multiport valve. 2,529,505, Nov. 14.

Krueger, Theodore H., Stratford, and E. E. Sharpe, Shelton, Conn., assignors to Better Packages Incorporated. Adhesive tape dispenser. 2,530,335, Nov. 14.

Kubik, André A. J., Paris, France. Suppository container and mold. 2,530,127, Nov. 14.

Kuhn, Clarence W., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Automatic control switch. 2,530,305, Nov. 14.

Kunkel, Charles A., New Richmond, Ohio. Cable pulling and tightening device. 2,529,617, Nov. 14.

Kwartler, Charles E., Albany, and P. Lucas, Menands, N. Y., assignors to Sterling Drug Inc., Wilmington, Del. 4-quinolyl amino compounds and their preparation. 2,530,125, Nov. 14.

Kwartler, Charles E., Albany, and P. Lucas, Menands, N. Y., assignors to Sterling Drug Inc., Wilmington, Del. 2-(tertiary-aminoalkyl)-2-(substituted-phenyl) ethylamines. 2,530,126, Nov. 14.

Lasse, Charles A., Genoa, assignor to The Timken Roller Bearing Company, Canton, Ohio. Knurling broach. 2,530,066, Nov. 14.

Lach, John, Chicago, Ill., assignor to Uarco Incorporated. Apparatus for coating paper with carbon wax. 2,529,699, Nov. 14.

Ladge, Morris, Newton, Mass. Bulk dispensing cabinet for popcorn and the like. 2,529,877, Nov. 14.

Lamarthe, Alfred E., Paris, France, assignor to Fa-Clie Fastener Corporation, New York, N. Y. Closure for receptacles. 2,529,878, Nov. 14.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Process and apparatus for forming liquid-carrying containers. 2,530,306, Nov. 14.

Landau, Sam, New York, N. Y. Lady's undergarment. 2,529,774, Nov. 14.

Landis, George G., South Euclid, and N. J. Hoenle, Cleveland Heights, assignors to The Lincoln Electric Company, Cleveland, Ohio. Work support. 2,530,016, Nov. 14.

Larson, Harry R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for measuring electrical properties. 2,530,248, Nov. 14.

Larys, Bohumir A., Murray Hill, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Control apparatus for radio-frequency heating. 2,529,560, Nov. 14.

Lawrence, Ernest O., and V. B. Waithman, Berkeley, Calif., and F. H. Schmidt, Seattle, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission. Electronic regulator. 2,530,169, Nov. 14.

Leach, Kant F., Englewood, Colo. Wrench holder. 2,530,307, Nov. 14.

Lear, George B., Shreveport, La. Model maker's clamp having removable jaws. 2,530,203, Nov. 14.

Le Comte, Joseph O., Cleveland, Ohio. Micrometer dust guard. 2,529,561, Nov. 14.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine lubrication. 2,530,249, Nov. 14.

Lee Rubber & Tire Corporation, assignee: *See*—
Carlin, James C.

Leeds and Northrup Company, assignee: *See*—
Davis, Elwood T.

Legion Utensils Co., assignee: *See*—
Gorlin, Alex M.

Lehmann, Ralph E., Felton, Calif. Defrosting system in refrigerated locker. 2,529,734, Nov. 14.

Leith, William G., Arlington, Va. Dispensing cover for dust mops. 2,530,250, Nov. 14.

Leitz, E., Inc., assignee: *See*—
Berssenbrugge, Willem L.

Le Tourneau, R. G., Inc., assignee: *See*—
Bryant, George E.

Lennis, Joseph, Long Island City, N. Y. Brush for cleaning containers. 2,529,952, Nov. 14.

Levenson, Solomon, assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent lamp holder. 2,530,017, Nov. 14.

Levey, Fred'k H., & Co., Inc., assignee: *See*—
Brodie, George R., and Hawkes, Jr.

Levoy, Monroe B., Newtown, Conn. Ophthalmic mounting. 2,529,879, Nov. 14.

Levy, Hans R., Golders Green, assignor to Thorn Electrical Industries Limited, London, England. Electric lamp. 2,530,204, Nov. 14.

Lightolier Company, assignee: *See*—
Thurston, Gerald.

Lincoln Electric Company, The, assignee: *See*—
Landis, George G., and Hoenle.
Peters, Vladimir.

Lindbeck, Howard R.: *See*—
Vogel, Edward A., and Lindbeck.

Livak, John E.: *See*—
Britton, Edgar C., Vander Weele, and Livak.

Livestock Sprayer Mfg. Co., assignee: *See*—
Abildgaard, William, and Herbert.
Abildgaard, William and W. H.

Livingood, John R.: *See*—
Kelly, William I., and Livingood.

Lloyd, Peter, Camberley, and A. D. Richards, Fleet, assignors to Power Jets (Research and Development) Ltd., London, England. Burner for liquid or gaseous fuels. 2,529,506, Nov. 14.

Locke Stove Company, assignee: *See*—
Esson, Edwin.

Lockwood, Edwin H., Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Feed-through switch. 2,529,845, Nov. 14.

Loflen, Conrad M.: *See*—
Vaughn, Ralph H., and Loflen.

Lomholdt-Pedersen, John, Gentopte, Denmark. Quick-freezing. 2,529,959, Nov. 14.

Long, George W.: *See*—
Lowe, Sherwin P., Long, Downes, and Kent.

Lowe, Sherwin P., G. W. Long, K. W. Downes, and G. H. Kent, Flin Flon, assignors to Hudson Bay Mining and Smelting Co. Limited, Winnipeg, Manitoba, Canada. Electrolytically producing zinc of high purity. 2,529,700, Nov. 14.

Lowell Specialty Company, assignee: *See*—
Winks, John, and Fletcher.

Luberoff, Louis, Jenkintown, Pa. Piano construction for sound amplification. 2,530,251, Nov. 14.

Luberoff, Louis, Jenkintown, Pa. Musical instrument. 2,530,252, Nov. 14.

Lucas, Philip: *See*—
Kwartler, Charles E., and Lucas.

Ludwig, Anthony, Washington, D. C. Autofocusing enlarger. 2,529,507, Nov. 14.

Lustrafil Limited, assignee: *See*—
Barker, Sydney W.

Lutz, Ernest P.: *See*—
Gilmore, Emmett J., and Lutz, E. P. and Z.

Lutz, Zolten: *See*—
Gilmore, Emmett J., and Lutz, E. P. and Z.

MacDonald, Gilmour C., Ames, Iowa. Combined throttle lever and rocket firing means for acceleration or deceleration of aircraft. 2,529,508, Nov. 14.

Maddox, Lewis W., Clarksville, assignor of one-half to C. Owen, Atlanta, Ga. Engine safety switch. 2,529,775, Nov. 14.

Maged, Julius, and C. M. Kramer, Baltimore, Md. Drinking spout for cans. 2,530,253, Nov. 14.

Makall Corporation, assignee: *See*—
Fey, Albert.

Malecek, Stanley J., Morton, Minn. Grain drier. 2,529,953, Nov. 14.

Malek, Sidney K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermopile construction. 2,530,254, Nov. 14.

Malek, Sidney K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermoelectric generator. 2,530,255, Nov. 14.

Malek, Sidney K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermoelectric generator. 2,530,256, Nov. 14.

Malherbe, Benjamin F.: *See*—
Oliver, Edward M., and Malherbe.

Mallory, Edwin E., Cuyahoga Falls, and J. W. White, Wadsworth, assignors to National Rubber Machinery Company, Akron, Ohio. Underply turndown and stitching device. 2,529,509, Nov. 14.

Maloff, Ioury G., Camden, N. J., assignor to Radio Corporation of America. Rear projection viewing screen. 2,529,701, Nov. 14.

Maltbie Laboratories, Inc., assignee: *See*—
Walter, Lewis A.

Maney, George A., Skokie, Ill. Aerial navigation system. 2,529,619, Nov. 14.

Manley, Theodore M., Ann Arbor, Mich. Radio system for measuring distance by phase comparison. 2,529,510, Nov. 14.

Marconi Sounding Device Company Limited, assignee: *See*—
Watt, James.

Marcus, Jerome R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing coatings. 2,530,257, Nov. 14.

Marini, Donato, Quincy, Mass. Disappearing refuse holder. 2,530,336, Nov. 14.

Marks, Conrod G., Jasper, Ind. Fluid jet cleaner for boilers. 2,530,018, Nov. 14.

Marnach, Carl H., and N. G. Schatz, Newberg, Oreg. Husking and cleaning machine. 2,529,620, Nov. 14.

Marnon, Edward S., assignee: *See*—
McGogy, Donald H.

Marsan, Edward P., assignor to F. J. Papes, Chicago, Ill. Self-locking insulating bushing for electric conductors. 2,530,258, Nov. 14.

Marshall, Norman P., assignee: *See*—
Tarwater, Lawson.

Marshall, William S., assignee: *See*—
Tarwater, Lawson.

Marti, Fritz, La Chaux de Fonds, Switzerland. Hairspring collet. 2,529,807, Nov. 14.

Martin, Daniel W., Blackwood, N. J., assignor to Radio Corporation of America. Adjustable earpiece for receivers. 2,529,562, Nov. 14.

Martin, Earnest E., Pasadena, assignor to Universal Properties, Inc., Los Angeles, Calif. Valve device for pressure fluid containers. 2,529,808, Nov. 14.

Martin, Glenn L., Company, The, assignee: *See*—
Bortner, William A., Collins, and Tousignan.

Martin, Gustav J., Philadelphia, and S. Avakian, Oreland, assignors to The National Drug Company, Philadelphia, Pa. N,N-dimethyl-N'-(2-pyridyl)-N'-(2-benzothenyl) ethylene diamine. 2,530,358, Nov. 14.

Martin, Harry, Cornbrook, Manchester, England. Glass cutter. 2,529,735, Nov. 14.

Martin, Philip W., Huntington Park, Calif. Apparatus for determining movability of members in wells. 2,530,308, Nov. 14.

Martin, Philip W., Huntington Park, Calif. Device for determining relative movements of parts in wells. 2,530,309, Nov. 14.

Maschek, Henry, San Francisco, Calif. Cigarette case with ejector and agitator. 2,529,776, Nov. 14.

Mashinter, William H., Chicago, Ill. Fuel injector. 2,530,128, Nov. 14.

Massa, Frank, Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Transducer and system. 2,529,658, Nov. 14.

Maurer, Edward C., St. Paul, Minn. Superheated steam garment finisher. 2,530,067, Nov. 14.

May, Dennis W., assignee: *See*—
Childress, Patrick H.

Mayers, Martin A., Pittsburgh, assignor to Elliott Company, Jeanette, Pa. Combustion chamber with side air entrance and hollow ignition cone. 2,530,019, Nov. 14.

Mayo, Reubin E., Maury, N. C. Drying house. 2,529,621, Nov. 14.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McAdams, Harry, Philadelphia, Pa. Repair and conditioning of nylon fabric. 2,530,259, Nov. 14.

McArthur, Warren, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Tray supporting means. 2,530,020, Nov. 14.

McAteer, James H., Cranford, C. E. Morrell, Westfield, J. K. Small, Union, and H. L. Yowell, Elizabeth, N. J., assignors to Standard Oil Development Company. Drying gases. 2,530,129, Nov. 14.

McBrayer, Marvin L., Alhambra, and A. J. Swyke, Arcadia, assignors to Moisture Register Company, Alhambra, Calif. Zero suppression system for electronic moisture register instruments. 2,529,846, Nov. 14.

McCabe, Ira E., Chicago, Ill. Barometer. 2,530,068, Nov. 14.

McCann, Floyd E., Milwaukee, assignor of one-half to E. C. Noeldner, Loval, Wis. Barn cleaner and loading machine. 2,529,954, Nov. 14.

McCarron, Donald F.: *See*—
Holstein, Alvin W., and McCarron.

McClellan, Raymond H., assignor to E. Edelmann & Co., Chicago, Ill. Apparatus for manufacturing closures from flexible plastic material. 2,529,847, Nov. 14.

McClure, Arthur W., assignor to Elliott Company, Jeanette, Pa. Turboexpander. 2,529,880, Nov. 14.

McCormick, Charles E., assignee: *See*—
Fox, Clarence D.

McFarland, Forest R., Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Transmission mechanism. 2,530,310, Nov. 14.

McGogy, Donald H., Vancouver, Wash., assignor to E. S. Marnon, Oregon City, Oreg. Fluid pressure unit. 2,530,337, Nov. 14.

McInnis, William H., Windsor, Ontario, Canada. Conveyer drive. 2,529,777, Nov. 14.

McKenna, Philip M., Greensburg, assignor to Kennametal Inc., Latrobe, Pa. Making tungsten monocarbide from tungsten-containing material. 2,529,778, Nov. 14.

McLaughlin, Richard A., Canton, Ohio, assignor, by mesne assignments, to Poor & Company, Chicago, Ill. Rail anchor. 2,530,021, Nov. 14.

McLean, John A., Jr., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Temperature control apparatus. 2,530,338, Nov. 14.

McLellan, Charles, Los Angeles, Calif. Lid catcher. 2,529,779, Nov. 14.

McNally, James G.: *See*—
Dickey, Joseph B., and McNally.

McQuay-Norris Manufacturing Company, assignee: *See*—
Persons, Lawrence M.

Meador, Duis W.: *See*—
Wiegand, Francis J., and Meador.

Meinhardt, Walter T., assignee: *See*—
Zempel, Edward A.

Mellen, Alice M., assignee: *See*—
Mellen, William F.

Mellen, William F., assignor to A. M. Mellen, Whittier, Calif. Automatic power lift trip for two-way plows. 2,529,809, Nov. 14.

Mellers, Eric V.: *See*—
Fallows, Leonard, and Mellers.

Mellon Institute of Industrial Research, assignee: *See*—
Hoak, Richard D.

Melnick, Daniel, Flushing, assignor, by mesne assignments, to Duffy-Mott Company, Inc., New York, N. Y. Carotene derivative and preparing the same. 2,529,659, Nov. 14.

Merrell, Wm. S., Company, The, assignee: *See*—
Amstutz, Edward D.

Merriam Manufacturing Company, The, assignee: *See*—
Wiepert, George D.

Mershon, Alfred V., Schenectady, N. Y., assignor to General Electric Company. Integrating load meter for rotating shafts. 2,530,022, Nov. 14.

Meyer, Alvin D., Kenmore, and C. F. Carlzen, assignors to Colonial Radio Corporation, Buffalo, N. Y. Hand and power drive. 2,529,660, Nov. 14.

Michael, Vesta F., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Formaldehyde purification and polymerization with selective condensation of water vapor. 2,529,622, Nov. 14.

Midland Steel Products Company, The, assignee: *See*—
Almond, John R., and Bosworth.

Midwest Game Co., Inc., assignee: *See*—
Miller, Leland C.

Mikeska, Louis A., Westfield, and A. R. Kittleson, Cranford, N. J., assignors to Standard Oil Development Company. Compounded petroleum hydrocarbon products. 2,530,339, Nov. 14.

Millais, Warren, New York, N. Y., assignor to W. A. Amend, Sr., Great Bend, Kans. Color cinematography. 2,530,023, Nov. 14.

Miller, Edwin A., Fairfield, Conn. Snap switch having a blade torsionally mounted. 2,529,881, Nov. 14.

Miller, Harry W., Muskegon Heights, Mich. Stool having a rotatable seat. 2,529,780, Nov. 14.

Miller, Hugh, Mendville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Stretch tube orifice. 2,529,563, Nov. 14.

Miller, Leland C., assignor to Midwest Game Co., Inc., Kansas City, Mo. Shipping crate for animals. 2,530,170, Nov. 14.

Miller, Ross D., Denver, Colo. Folding card file. 2,529,702, Nov. 14.

Miller, Samuel L., and L. W. Amort, Salem, Oreg. Tree planter. 2,530,260, Nov. 14.

Miller, William A., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse multiplex receiving system. 2,529,564, Nov. 14.

Mills, Donald A. Duluth, Minn. Boot drying tree. 2,529,565, Nov. 14.

Millstein, Jacob H., Jeannette, Pa. Combination candy-filled musical toy and bank. 2,529,661, Nov. 14.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Haseltinge, Stacy B.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Eckman, Donald P.
Field, William J.
Malek, Sidney K.
Wild, Rudolf F.

Mission Manufacturing Company, assignee: *See*—
Kirkpatrick, Ruel and Young.

Mittman, Carl F., Buffalo, N. Y. Hop strainer. 2,529,882, Nov. 14.

Moergeli, Eduard, Neuewelt, P. Sutter, Binningen, and W. Kern, Sissah, assignors to Ciba Limited, Basel, Switzerland. Quinazoline derivatives and making same. 2,530,025, Nov. 14.

Moisture Register Company, assignee: *See*—
McGrayer, Marvin L., and Swyke.

Monack, Albert J., Rutherford, assignor to Mycalex Corporation of America, Clifton, N. J. Glass bonded insulating composition. 2,529,566, Nov. 14.

Monroe Calculating Machine Company, assignee: *See*—
Britten, Edwin F., Jr.

Monsanto Chemical Company, assignee: *See*—
Ott, John B.

Montclair Research Corporation, assignee: *See*—
Rust, John B., and Canfield.

Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Power unit. 2,529,810, Nov. 14.

Moody Machine Products Co., Inc., assignee: *See*—
Moody, William S.

Moody, William S., Cranston, R. I., assignor to Moody Machine Products Co., Inc. Tool package. 2,530,024, Nov. 14.

Moore, George H., Snow Hill, assignor of one-fourth to W. G. Sheppard, Greene County, N. C. Combination flashlight and table lamp. 2,530,069, Nov. 14.

Moore, William E.: *See*—
Cihlar, Anthony J., and Moore.

Morley, Frederick W. W., Aston-on-Trent, Derby, assignor to Rolls-Royce Limited, Derby, England. Mounting of gas turbine engines in aircraft. 2,529,955, Nov. 14.

Morrell, Charles E.: *See*—
McAteer, James H., Morrell, Small, and Yowell.

Morris, Elton K., assignor to The Dow Chemical Company, Midland, Mich. Coagulation of nonelastic polymers. 2,530,362, Nov. 14.

Morris, Rupert C., Berkeley, and A. V. Snider, Richmond, assignors to Shell Development Company, San Francisco, Calif. Cyclic sulfone amines. 2,530,070, Nov. 14.

Morrison, Samuel O., Media, Pa., assignor to Sunroc Refrigeration Company, Dover, Del. Water cooler having adjustable drinking water temperature and water bleed. 2,529,781, Nov. 14.

Morrison, Samuel O., Media, Pa., assignor to Sunroc Refrigeration Company, Dover, Del. Safety refrigerator. 2,529,782, Nov. 14.

Morse, John F., Hudson, Ohio. Marine engine control mechanism. 2,530,205, Nov. 14.

Morton, Paul D.: *See*—
Olin, John F., and Morton.

Morton, Thomas H., and F. Ward, Braintree, assignors to Courtaulds Limited, London, England. Fireproofing and cresseproofing of cellulose and protein textiles. 2,530,261, Nov. 14.

Mosler Safe Company, The, assignee: *See*—
Bremer, Frederick J.

Motorola Inc., assignee: *See*—
Fyler, George W.

Moulton, Stephen W., assignor to Philco Corporation, Philadelphia, Pa. Heterodyne frequency modulator with distortion compensation. 2,529,736, Nov. 14.

Mount Airy Knitting Co., assignee: *See*—
Crossingham, James H.

Muench, Carl G., Glenview, assignor to The Celotex Corporation, Chicago, Ill. Apparatus for saturating edge portions of fiber boards. 2,530,026, Nov. 14.

Mulvaney, Vincent, assignee: *See*—
Weir, Richard L.

Murphy, Moyes J., Arcadia, Calif. Deferred action battery. 2,529,511, Nov. 14.

Murray, Donald E., Modesto, Calif. Apron mount and control for carry-type scrapers. 2,529,848, Nov. 14.

Murray, Victor E., assignor of sixty percent to C. H. Reedy, Cincinnati, Ohio. Two-speed rear axle transmission. 2,529,623, Nov. 14.

Murray, Wallace J., Dedham, Mass., assignor, by mesne assignments, to Stanolind Oil and Gas Company, Tulsa, Okla. Revivification of adsorbents. 2,529,624, Nov. 14.

Musser, Clarence W.: *See*—
Kroeger, William J., and Musser.

Mycalex Corporation of America, assignee: *See*—
Monack, Albert J.

Myles, James R., and N. H. Ray, Northwich, England, assignors to Imperial Chemical Industries Limited. Making silicon ester resins. 2,529,956, Nov. 14.

Nabors, William C., Mansfield, La. Lower fifth wheel. 2,530,311, Nov. 14.

Namenyi-Katz, Laszlo, London, England. Vacuum cleaner. 2,529,623, Nov. 14.

Nash, Daniel J., Jersey City, N. J. Fanfold pass case. 2,530,071, Nov. 14.

Nasmith, John I., assignor to Vickers-Armstrongs Limited, London, England. Wire stitching mechanism. 2,530,312, Nov. 14.

National Drug Company, The, assignee: *See*—
Martin, Gustav J., and Avakian.

National Rubber Machinery Company, assignee: *See*—
Mallory, Edwin E., and White.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Starr, Merle A.

Neck, Ludwig F., Kenmore, N. Y. Drill chuck key holder. 2,529,567, Nov. 14.

Nelson, Oscar G., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Extrusion apparatus. 2,530,262, Nov. 14.

Neubeck, Clifford E.: *See*—
Smythe, Carl V., Drake, and Neubeck.

Newman, Victor M., New York, N. Y. Tie knot former. 2,529,957, Nov. 14.

New Wrinkle, Inc., assignee: *See*—
Williams, Gordon M.

Nichols Engineering & Research Corporation, assignee: *See*—
Schilling, Frederick B.

Nicoll, Frederick H., and F. E. Williams, Princeton, N. J., assignors to Radio Corporation of America. Production of low reflectance skeletonized surface on glass. 2,529,703, Nov. 14.

Nieburg, Felix, assignor to Aktiebolaget Colorator, Stockholm, Sweden. Spray gun. 2,530,206, Nov. 14.

Noeldner, Erwin C., assignee: *See*—
McCann, Floyd E.

Nopco Chemical Company, assignee: *See*—
Kapp, Roland, and Griffith.

Nordin, Holger G. E., Chicago, Ill. Gear pump brake for revolving doors. 2,529,811, Nov. 14.

Northeast Tool and Die Works, Inc., assignee: *See*—
Peterson, Wilbur I.

Northern Engraving & Manufacturing Co., assignee: *See*—
Brietzke, Adrian P.

Norton Company, assignee: *See*—
Teague, Ernest D.

Norton Patents Corporation, assignee: *See*—
Baruch, Sydney N.

Nystrom, Karl T., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Cushioning and centering device for railway car couplers. 2,529,626, Nov. 14.

Oberhansly, Keith B.: *See*—
Donalson, Joe W., and Oberhansly.

O'Connor, Arthur F., Chicago, Ill., assignor to Union Asbestos & Rubber Company. Spring device. 2,530,072, Nov. 14.

Oeth, Earl W., assignor of one-third to R. A. Oeth, Evansville, Ind. Trailer for boat handling. 2,529,849, Nov. 14.

Oeth, Ruby A., assignee: *See*—
Oeth, Earl W.

Office of Scientific Research and Development, United States of America as represented by the, assignee: *See*—
Wallace, Robert L., Jr.

O'Hara, Arthur E., Montreal, Quebec, Canada. Bathtub. 2,529,568, Nov. 14.

Okress, Ernest C., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetron output terminal. 2,530,171, Nov. 14.

Okress, Ernest C., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ultra high frequency generator. 2,530,172, Nov. 14.

Oldberg, Sidney, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Helical interengaging impellers blower. 2,530,173, Nov. 14.

Oldfield, John C., Yakima, Wash. Watering device. 2,529,627, Nov. 14.

Olds, Charles H., Prince George, British Columbia, Canada. Fur stretcher. 2,529,783, Nov. 14.

Olin Industries, Inc., assignee: *See*—
Olsen, Fredrich.

Olin, John F., Grosse Ile, and P. D. Morton, Wyandotte, Mich., assignors to Sharples Chemicals Inc. Condensation products of urea, monoalkyl urea, formaldehyde, and monohydric aliphatic alcohol. 2,529,784, Nov. 14.

Oliver, Charles L., Portsmouth, Va. Automatic control for steam boilers or tanks. 2,530,073, Nov. 14.

Oliver, Edward M., and B. F. Malherbe, Denver, Colo. Combination detachable handle and can punch. 2,529,737, Nov. 14.

Olsen, Fredrich, Alton, assignor to Olin Industries, Inc., East Alton, Ill. Drying ammunition primers. 2,529,704, Nov. 14.

Olson, Chas. & Sons, Inc., assignee: *See*—
Olson, Buford W.

Olson, Buford W., assignor to Chas. Olson & Sons, Inc., Minneapolis, Minn. Spindle bar mounting bracket and the like. 2,529,738, Nov. 14.

Osborn, Riley R., assignee: *See*—
Carris, Jerry R.

Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Unsaturated alkyd foam resins. 2,529,512, Nov. 14.

Otto, Harry A., assignor to Hagan Corporation, Pittsburgh, Pa. Vibration damping device. 2,529,883, Nov. 14.

Overton, John L., Seattle, Wash. Traveling bag combined with removable and continuously self-righting cosmetic tray. 2,529,569, Nov. 14.

Owen, Clyde, assignee: *See*—
Maddox, Lewis W.

Owner, Frank M., and A. G. Henstridge, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Supporting gas-turbine power plants. 2,529,958, Nov. 14.

Packard Motor Car Company, assignee: *See*—
McFarland, Forest R.

Papa, Domenick: *See*—
Schwenk, Erwin, and Papa.
Sperber, Nathan, and Papa.

Papes, Frank J., assignee: *See*—
Marsan, Edward P.

Paraffine Companies, Inc., The, assignee: *See*—
Crockett, Harold W.

Parker, Burton H., Detroit, Mich. Quick-acting vise having rockable lever for sequentially positioning and advancing slidable jaw. 2,530,130, Nov. 14.

Parisi, Jules T., Chicago, Ill. Conveying and distributing apparatus. 2,530,074, Nov. 14.

Parske, Charles A.: *See*—
Eserkain, Theodore F., and Parske.

Parsons, John B., Toledo, Ohio. Regulator mechanism. 2,529,570, Nov. 14.

Parsons, Joseph R.: *See*—
Dailey, Manvel C., and Parsons.

Parten, Carl D., assignor to Schutz-O'Neill Co., Minneapolis, Minn. Feed device for rotary beater mills with means for preventing blow-back of material. 2,530,313, Nov. 14.

Pataki, Denes, Detroit, and B. Welte, Lake Orion, assignors to Colonial Broach Company, Warren Township, Mich. Broaching machine. 2,529,705, Nov. 14.

Payton, Allen L., assignor to Tranin Egg Products, Company, Kansas City, Mo. Apparatus for mixing liquids. 2,530,174, Nov. 14.

Pearson, William C., assignor to The Pyle-National Company, Chicago, Ill. Explosion-proof pilot light. 2,529,706, Nov. 14.

Pechy, William, Manasquan, N. J., assignor to American Can Company, New York, N. Y. Gauge driving device for sheet feeding and gauging mechanisms. 2,529,513, Nov. 14.

Pelletier, Emile J., Clarence, N. Y. Cabinet having a rotatably mounted shelf unit. 2,529,960, Nov. 14.

Pennsylvania Research Corporation, The, assignee: *See*—
Camp, Leon W.

Peremi, Edmund, Bayside, and H. Weimann, Yonkers, assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Balanced door. 2,530,263, Nov. 14.

Perkins, John T.: *See*—
Bates, Harry U., and Perkins.

Perrigo, Howard A., Hamden, Conn. Sadiron holder. 2,530,027, Nov. 14.

Perry, Nick, Chicago Heights, Ill. Adjustable back reclining chair. 2,530,264, Nov. 14.

Persons, Lawrence M., Chesterfield, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Snap action switch. 2,529,785, Nov. 14.

Peters, Vladimir, Lakewood, assignor to The Lincoln Electric Company, Cleveland, Ohio. Method of and apparatus for arc welding. 2,529,812, Nov. 14.

Petersén, Wilhelm H., assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Machine for washing clothes. 2,530,028, Nov. 14.

Peterson, Edward S., Elmwood Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Signal unit for telephone conversation recorders. 2,530,075, Nov. 14.

Peterson, Edward S., Elmwood Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Time announcing system. 2,530,076, Nov. 14.

Peterson, Wilbur P., Independence, assignor to Northeast Tool and Die Works, Inc., Kansas City, Mo. Operating mechanism for plungers of caulking guns. 2,530,359, Nov. 14.

Pfeffer, Edward C., Jr., and J. Epelberg, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Stabilization of regenerated cellulose. 2,530,175, Nov. 14.

Phalen, Lee C., La Due, Mo. Holder for fishing poles and rods. 2,530,265, Nov. 14.

Philco Corporation, assignee: *See*—
Fisher, Joseph F.
Moulton, Stephen W.

Phillips Petroleum Company, assignee: *See*—
Bergman, William E.
Carnell, Paul H.
Waddill, Paul M.
Weber, Louis J.

Phillips, Robert A., Flint, assignor of one-half to S. T. Faust, Luzerne, Mich. Float. 2,529,961, Nov. 14.

Photoswitch, Incorporated, assignee: *See*—
Cade, Phillip J.

Pierce, Bert H., Chicago, Ill. Water heater for internal-combustion engines and the like. 2,529,707, Nov. 14.

Pignons S. A., Ballaigues, assignee: *See*—
Baer, Georges.

Pintiaux, Oscar, Saint-Laurent Blangy, assignor to Societe de Produits Chimiques & Engrais d'Auby, Paris, France. Contact tower for conversion under pressure of carbon monoxide and the like applications. 2,530,314, Nov. 14.

Pipponzi, Adriano, Busto Arsizio, Italy. Electric circuit breaker. 2,529,662, Nov. 14.

Pittsburgh Annealing Box Company, assignee: *See*—
Jacob, Morris L.

Pittsburgh Plate Glass Company, assignee: *See*—
Bissinger, William E.

Plax Corporation, assignee: *See*—
Bailey, James, and Reber.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Howard, Stanley R.

Polaroid Corporation, assignee: *See*—
Land, Edwin H.

Pollock, Miriam S. and M. P., Brookline, Mass. Educational flag. 2,529,628, Nov. 14.

Pollock, Morris P.: *See*—
Pollock, Miriam S. and M. P.

Pond, Chester C., Melrose Park, assignor to The International Electronics Company, Philadelphia, Pa. Equalizer for supporting magnetic recording and erasing heads. 2,530,029, Nov. 14.

Poor & Company, assignee: *See*—
Chester, Allan E.
McLaughlin, Richard A.

Potts, Clarence P., Macon, assignor to Safety Tire Gauge, Inc., Atlanta, Ga. Tire pressure gauge. 2,529,813, Nov. 14.

Powell, Edward R., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for producing mineral wool. 2,529,962, Nov. 14.

Powell, William B.: *See*—
Boyce Boykin B., and Powell.

Powell, Wilson M., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for measuring local variations in flux density in a magnetic field. 2,530,176, Nov. 14.

Power Jets (Research and Development) Ltd., assignee: *See*—
Lloyd, Peter, and Richards.

Powers, Conious E., Natchez, Miss. Tire making machine. 2,529,739, Nov. 14.

Pratt, Derrill R., Jr.: *See*—
Handler, Julius J., and Pratt.

Pratt, Henry, Company, assignee: *See*—
Fantz, Fred C.

Presto Lighters Limited, assignee: *See*—
Fortin, Charles A.

Price, Edison A., assignor to Display Lighting Incorporated, New York, N. Y. Light bulb support comprising a ring having a plurality of fingers extending forwardly and rearwardly of the ring. 2,530,360, Nov. 14.

Price, Edison A., assignor to Display Lighting Incorporated, New York, N. Y. Light baffle and support therefor. 2,530,361, Nov. 14.

Prince, John, and M. Whitehead, Hollinwood, England. Induction disk for watthour meters and the like. 2,529,571, Nov. 14.

Procter & Gamble Company, The, assignee: *See*—
Brod, John S.
Brod, John S., and Henry.
Henry, Ronald A., and Brod.

Prodromos, George, Winston-Salem, N. C. Holder for trimming tools. 2,529,963, Nov. 14.

Pullars Electric Co. (Brighton) Limited, assignee: *See*—
Bowen, Tom.

Pullars Instruments Limited, assignee: *See*—
Bowen, Tom.

Pullin, Cyril G., Tadburn, Ampfield, and K. Watson, Woolston, Southampton, England, assignors, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa. Rotary-wing aircraft with plural rotors. 2,529,629, Nov. 14.

Pure Oil Company, The, assignee: *See*—
Ayers, George W., and Harton.

Pursell, Phil B., Kansas City, Kans. Oven. 2,530,177, Nov. 14.

Pyle-National Company, The, assignee: *See*—
Pearson, William C.

Pyrene Manufacturing Company, assignee: *See*—
Smye, Arthur.

Quackenbush, Franks, Herkimer, N. Y. Secondary windshield for convertible automobiles. 2,530,266, Nov. 14.

Queen Cutlery Company, assignee: *See*—
Erickson, Eric C.

Raab, Walter, Albany, N. Y. Combined bottle top and applicator. 2,529,964, Nov. 14.

Radio Corporation of America, assignee: *See*—
Harris, Walter A.
Maloff, Ioury G.
Martin, Daniel W.
Miller, William A.
Nicoll, Frederick H., and Williams.
Sinnett, Chester M.
Smith, Arthur L. J.
Smith, Lester C.
Thompson, Leland E.
Webb, Richard C.
Wenger, Wiley D.
Wentworth, Chandler.

Ramsing, Frederick C., Phoenix, Ariz. Metallurgical furnace. 2,530,077, Nov. 14.

Ramsing, Frederick C., Phoenix, Ariz. Metallurgical furnace. 2,530,078, Nov. 14.

Rathkamp, William R., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Fluxmeter. 2,530,178, Nov. 14.

Ray, Neil H.: *See*—
Myles, James R., and Ray.

Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Safety control system for fluid fuel burners. 2,529,740, Nov. 14.

Raybould, Frank J., Lakewood, assignor to The Weatherhead Company, Cleveland, Ohio. Carburetor valve. 2,529,572, Nov. 14.

Raynor, Harvey F.: *See*—
Snowden, Ward E., and Raynor.

Raytheon Manufacturing Company, assignee: *See*—
Kather, Erich N.

Reber, Clarence G.: *See*—
Bailey, James, and Reber.

Reconstruction Finance Corporation, assignee: *See*—
McArthur, Warren.

Reedy, Charles H., assignee: *See*—
Murray, Victor E.

Rehwald, Richard T., administrator: *See*—
Foster, Maurice.

Reichl, Eric H., Orinda, Calif., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Manufacture of synthesis gases. 2,529,630, Nov. 14.

Reid, Colin C.: *See*—
Robinson, Preston, and Reid.

Reifel, Harry, Waltham, assignor, by mesne assignments, to Stevens-Arnold Inc., Boston, Mass. Resonant switch system. 2,529,814, Nov. 14.

Remington Rand Inc., assignee: *See*—
Wolters, Carl F.

Rentz, Cecil V., Niles, Ohio. Dust eliminator for ash cans. 2,529,905, Nov. 14.

Research Corporation, assignee: *See*—
Chamberlin, Ralph L.

Research Products Company, assignee: *See*—
Frohnmayer, Stanley H.

Reynolds Metals Company, assignee: *See*—
Reynolds, Richard S.

Reynolds, Richard S., assignor to Reynolds Metals Company, Richard, Va. Laminating metal foil. 2,529,884, Nov. 14.

Riblet, Henry J., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Directive antenna system. 2,530,079, Nov. 14.

Richards, Alec D.: *See*—
Lloyd, Peter, and Richards.

Ritter, Herman, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Oil metering device for sewing machines. 2,529,573, Nov. 14.

Ritter, Oak L., San Francisco, Calif. Moving and sounding figure toy. 2,529,631, Nov. 14.

Roberts, Glyn P., Brewood, England. Control mechanism for epicyclic gear boxes. 2,529,741, Nov. 14.

Roberts, Howell L., Maywood, and P. Sognefest, Broadview, Ill., assignors to American Can Company, New York, N. Y. Vacuum packing food products under agitation. 2,529,514, Nov. 14.

Robertshaw, Ernest G. F., Baildon, England. Rack engaging lever carried detent. 2,530,030, Nov. 14.

Robertson, Robert L., Kansas City, Mo. Garment hanger. 2,529,742, Nov. 14.

Robinson, George H., Royal Oak, assignor to Jervis B. Webb Company, Detroit, Mich. Pusher dog conveyer assembly. 2,529,663, Nov. 14.

Robinson, Preston, Williamstown, and C. C. Reid, Boston, assignors to Sprague Electric Company, North Adams, Mass. Halogenated aromatic compounds. 2,530,080, Nov. 14.

Roeder, Frank H., assignee: *See*—
Kraker, Bernard I.

Rohm & Haas Company, assignee: *See*—
Smythe, Carl V., Drake, and Neubeck.
Van Hook, John O., and Croxall.

Rolls-Royce Limited, assignee: *See*—
Bedale, Paul W., and Hughes.
Morley, Frederick W. W.

Roman, George, New York, N. Y. Clothes hanger. 2,530,207, Nov. 14.

Rosen, Leo, Oklahoma City, Okla. Swivel clamp for submergible electric cables. 2,530,179, Nov. 14.

Ross, Karl F., Bronx, N. Y. Receiver for wave-length modulated electric waves. 2,530,081, Nov. 14.

Roters, Herbert C., Kew Gardens, N. Y., assignor to Beech Aircraft Corporation, Wichita, Kans. Dynamic braking control system. 2,530,131, Nov. 14.

Roth, Otto A., Kirkwood, Mo. Chance game apparatus. 2,530,082, Nov. 14.

Rothe, Walter F., Washington, D. C. Key identification means. 2,529,815, Nov. 14.

Rowe, Leroy C., Ellsworth, Mich. Ice cream container insert. 2,529,816, Nov. 14.

Royal Manufacturing Co., Inc., assignee: *See*—
Spradlen, William F.

Roysher, Hudson B., Los Angeles, assignor to W. Hickok, Beverly Hills, Calif. Visual educational projector. 2,529,664, Nov. 14.

Rozas, Luis A. V., Cuzco, Peru. Propelling rod for parachutist. 2,529,966, Nov. 14.

Rozwood, Peter L., Passaic, N. J. Motor vehicle steering apparatus. 2,529,967, Nov. 14.

Ruch, Eugene, Farmington, Mich. Locking means for pins and the like. 2,530,083, Nov. 14

Rudolph, Faucette S., Torrance, Calif. Honda breakaway. 2,530,031, Nov. 14.

Rupe, Jack H.: *See*—
Clarkson, William S., and Rupe.

Rush, Ralph M., assignor to Dravo Corporation, Pittsburgh, Pa. Direct fired hot-air heating apparatus. 2,529,574, Nov. 14.

Russell, Andrew C., Shawnee, Okla. Floatless carburetor. 2,529,663, Nov. 14.

Russell, Carl, and H. R. Kiel, Downey, Calif. Thread anvil. 2,530,267, Nov. 14.

Russell, Irving H., Oak Park, assignor to Sloan Valve Company, Chicago, Ill. Water closet construction. 2,529,633, Nov. 14.

Russell, Irving H., Oak Park, and J. A. Sloan, River Forest, assignors to Sloan Valve Company, Chicago, Ill. Water closet construction. 2,529,632, Nov. 14.

Russell, Robert C., Cleveland Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Magnetic clutch. 2,530,180, Nov. 14.

Russell, T. J. Duke, Studio City, Calif. Dispensing closure. 2,529,817, Nov. 14.

Rust, John B., and W. B. Canfield, Montclair, N. J., assignors of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Modified drying oil-alkyd resins and making them. 2,530,315, Nov. 14.

Rust, John B., and W. B. Canfield, Montclair, N. J., assignors of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Ester modified drying oil alkyd resins and making same. 2,530,316, Nov. 14.

Ryan, George F., Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Leather shoe part blank and making. 2,529,818, Nov. 14.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Barrows, Clarence G.
Dodds, Robert B.

Safety Tire Gauge, Inc., assignee: *See*—
Potts, Clarence P.

Sager, Solomon M., Chicago, Ill. Humidor. 2,530,340, Nov. 14.

Sailer, Rudolph J., Townley, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machines for making fabric tubes. 2,529,575, Nov. 14.

Salsbury Corporation, assignee: *See*—
Salsbury, Esley F., and Harris.

Salsbury, Esley F., and F. W. Harris, Los Angeles, Calif. assignors to Salsbury Corporation. Power transmission. 2,529,743, Nov. 14.

Samuel Stamping and Enameling Company, assignee: *See*—
Zimbelman, George W.

Sandoz Limited, assignee: *See*—
Wehrli, Walter, and Iselin.

Sands, Matthew L., Everett, Mass., assignor to the United States of America as represented by the United States Atomic Energy Commission. Pulse height analyzer. 2,529,666, Nov. 14.

Sapiro, Reuben H.: *See*—
Austin, Archibald S., Sapiro, and Fraser.

Sartin, Hansel, Tujunga, Calif. Mechanism for artificial legs. 2,529,968, Nov. 14.

Sass, Chester V., Redding, Calif. Slab and sawdust burner formed of prefabricated panel sections. 2,530,208, Nov. 14.

Satsky, Henry J., Newark, N. J. Loading and unloading elevator platform for vehicles. 2,530,341, Nov. 14.

Scally, Paul V.: *See*—
Garvey, Thomas H., and Scally.

Scanlon, Charles D., Los Angeles, Calif. Warning device. 2,529,576, Nov. 14.

Schaid, Arthur J., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tapping apparatus. 2,530,268, Nov. 14.

Scharsch, Walter R., Los Angeles, Calif. Butter slicing and dispensing machine. 2,529,850, Nov. 14.

Schatz, Norman G.: *See*—
Marnach, Carl H., and Schatz.

Scheibel, Edward G., Nutley, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Heat exchanger. 2,529,516, Nov. 14.

Schempp, Edward H.: *See*—
Schempp, Robert H. and E. H.

Schempp, Robert H. and E. H., Maidstone, Saskatchewan, Canada. Swath turner. 2,529,577, Nov. 14.

Schering Corporation, assignee: *See*—
Schwenk, Erwin, and Papa.
Sperber, Nathan, and Papa.

Schermuly, Alfred J.: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Charles: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Conrad D., A. J., and C., Parkgate, Newdigate, England. Illuminating flare. 2,530,084, Nov. 14.

Schier, Wallace, Forest Hills, and D. L. Doggett, Mount Kisco, N. Y. Doll. 2,530,032, Nov. 14.

Schilling, Frederick B., Manhasset, assignor to Nichols Engineering & Research Corporation, New York, N. Y. Saparating apparatus. 2,530,181, Nov. 14.

Schlegel, Kurt, New York, N. Y. Shuttle-holding and mounting mechanism for sewing and quilting machines. 2,529,969, Nov. 14.

Schmid, William, Bronson, Mich. Electric switch. 2,529,970, Nov. 14.

Schmidinger, Joseph, Lake George, N. Y. Method and apparatus for the production of bead and wire assemblies. 2,529,971, Nov. 14.

Schmidt, Fred H.: *See*—
Lawrence, Ernest O., Waithman, and Schmidt.

Schofield, Earl L., Rockford, Ill., assignor, by mesne assignments, to Superior Coach Corporation, Lima, Ohio. Ambulance cot hook. 2,529,517, Nov. 14.

Scholten, Egbert: *See*—
Hugenholtz, Eduard H., and Scholten.

Schussel, Samuel, Jamaica, N. Y. Trouser cuff shaper. 2,529,708, Nov. 14.

Schutz-O'Neill Co., assignee: *See*—
Parten, Carl D.

Schweitzer, Frank J., Brea, Calif. Choking collar blowout preventer and stripper. 2,529,744, Nov. 14.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See*—
Wiederkehr, Hans, and Feiss.

Schwenk, Erwin, Montclair, N. J., and D. Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Cycloalkenyl halogenated hydroxycinnamic acids. 2,529,518, Nov. 14.

Schwerin, Paul, White Plains, assignor to Schwerin Research Corp., New York, N. Y. Audience-reaction analyzing system. 2,529,519, Nov. 14.

Schwerin Research Corp., assignee: *See*—
Schwerin, Paul.

Sciaky, David, assignor to Welding Research, Inc., Chicago, Ill. Sliding contact system for conducting electric currents. 2,529,634, Nov. 14.

Scoles, Graham J., London, England, assignor to General Electric Company. Sensitive flip-flop circuit. 2,530,033, Nov. 14.

Scott, Charles F., Mina, Nev. Combination illuminated vanity case and utility light. 2,529,972, Nov. 14.

Scrutchfield, Paul H., Hannibal, Mo., assignor to American Cyanamid Company, New York, N. Y. Adhesive composition. 2,529,851, Nov. 14.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R. and Brown.

Sears, Daniel S., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Delayed action coagulant. 2,529,885, Nov. 14.

Sedille, Marcel H. L., and R. J. Imbert, assignors to Societe Rateau (Société Anonyme), and R. Anxionnaz, Paris, France. Arrangement for the starting of two shaft gas turbine propelling means chiefly on board of aircraft. 2,529,973, Nov. 14.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O.

Semco, William B., assignor to Artistic Beauty Products Company, Los Angeles, Calif. Cold waving process. 2,529,886, Nov. 14.

Seng Company, The, assignee: *See*—
Fox, Martin.

Servel, Inc., assignee: *See*—
Edberg, Per.
Smallwood, Albert E.

Shaff, Ernest H., Spring Lake, assignor to The Keller Tool Company, Grand Haven, Mich. Air-operated vise with improved actuator and adjustment means. 2,530,085, Nov. 14.

Sharpe, Everett E.: *See*—
Krueger, Theodore H., and Sharpe.

Sharples Chemicals Inc., assignee: *See*—
Olin, John F., and Morton.

Shaw, Frederick C., Lincoln, Ark. Forearm splint. 2,529,786, Nov. 14.

Shaw and Slavsky, Inc., assignee: *See*—
Slavsky, Robert J. and J. R.

Shelby Spring Hinge Co., The, assignee: *See*—
Hubbs, Henry E.

Shell Development Company, assignee: *See*—
Morris, Rupert C., and Snider.

Shepelrich, Anton, Sayville, N. Y. Oil driven turbine motor vehicle wheel. 2,529,787, Nov. 14.

Sheppard, Walter G., assignee: *See*—
Moore, George H.

Sigg, Joseph A., Pittsburgh, Pa. Toy gun. 2,529,709, Nov. 14.

Signell, Carl A., Dover, N. J. Drill. 2,529,788, Nov. 14.

Sikorsky, Igor I., Bridgeport, W. E. Hunt, Brooklyn, and E. F. Katzenberger, Bridgeport, assignors to United Aircraft Corporation, East Hartford, Conn. Helicopter rotor control mechanism. 2,529,635, Nov. 14.

Silva, Willard C., Sarasota, Fla. Celery harvester. 2,529,515, Nov. 14.

Silvain, André, Roubaix, France. Orthopedic corset or girdle. 2,530,132, Nov. 14.

Simon, Justin, Brooklyn, and R. S. Temko, New York, N. Y. Razor blade magazine. 2,529,819, Nov. 14.

Simon, Max C.: *See*—
Simonowitz, Max.

Simonowitz, Max, Jamaica, N. Y.; now by judicial change of name Max C. Simon. Pivot retractable caster for furniture rails. 2,529,789, Nov. 14.

Simons, Loomis W.: *See*—
Gillis, Selby J., and Simons.

Simpkins, Nathaniel J., Atlanta, and D. H. Fischer, Decatur, Ga. Stick dispenser. 2,530,086, Nov. 14.

Sinclair Refining Company, assignee: *See*—
Kimball, Thomas B., and Howe.
Watkins, Franklin M.

Sincomb, Stanford W., El Paso, Tex. Valve rod guide for flush tanks. 2,530,209, Nov. 14.

Singer Manufacturing Company, The, assignee: *See*—
Larys, Bohumir A.
Ritter, Herman.
Sailer, Rudolph J.

Singh, Alamjit D., assignor to Institute of Gas Technology, Chicago, Ill. Sterilizing. 2,529,710, Nov. 14.

Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Absorption-type modulation system. 2,530,087, Nov. 14.

Sixtal Development Company, assignee: *See*—
Kreitner, John.

Sjolander, John L., assignor to Cleveland Wire Spring Company, Cleveland, Ohio. Spring dampener. 2,530,034, Nov. 14.

Slack, Charles M., Glen Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dual focus X-ray apparatus. 2,530,182, Nov. 14.

Slavsky, John R.: *See*—
Slavsky, Robert J. and J. R.

Slavsky, Robert J. and J. R., assignors to Shaw and Slavsky, Inc., Detroit, Mich. Knife handle construction. 2,529,618, Nov. 14.

Sloan, James A.: *See*—
Russell, Irving H., and Sloan.

Sloan Valve Company, assignee: *See*—
Russell, Irving H.
Russell, Irving H., and Sloan.

Small, James K.: *See*—
McAteer, James H., Morrell, Small, and Yowell.

Smallwood, Albert E., Taunton, Mass., assignor to Servel, Inc., New York, N. Y. Cooking range. 2,530,183, Nov. 14.

Smiley, Joseph C., Jr., assignor of one-half to D. T. Wilson, Philadelphia, Pa. Electron tube structure. 2,529,820, Nov. 14.

Smith, Arthur L. J., Lancaster, Pa., assignor to Radio Corporation of America. Making a zinc oxide phosphor. 2,529,711, Nov. 14.

Smith Cannery Machines Company, assignee: *See*—
Erickson, Alvin L.

Smith, Charlie W., St. Louis, Mo. Golf tee. 2,530,088, Nov. 14.

Smith, Erasmus D., Shaker Heights, assignor to The Electric Products Company, Cleveland, Ohio. Eddy current dynamometer. 2,529,974, Nov. 14.

Smith, Eric C., Toronto, Ontario, Canada. Atomizer for oil burners. 2,530,269, Nov. 14.

Smith, John P., Jr., Verona, assignor to The Daven Company, Newark, N. J. Recorder-connector for use in telephone conservation recording. 2,529,636, Nov. 14.

Smith, Lawrence W., assignor to Eastman Kodak Company, Rochester, N. Y. Making color prints from color transparencies. 2,529,875, Nov. 14.

Smith, Lester C., Westmont, N. J., assignor to Radio Corporation of America. Ultra high frequency resonant circuit. 2,530,089, Nov. 14.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Faucet with nonextruding seal. 2,530,090, Nov. 14.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Pressure relief valve. 2,530,091, Nov. 14.

Smutz, Walter D., Warrensville Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of anisole. 2,529,887, Nov. 14.

Smye, Arthur, London, England, assignor to Pyrene Manufacturing Company, Newark, N. J. Fluid container with valve controlled opening. 2,530,092, Nov. 14.

Smythe, Carl V., Moorestown, N. J., B. B. Drake, and C. E. Neubeck, assignors to Rohm & Haas Company, Philadelphia, Pa. Production of enzymes in submerged cultures of bacteria. 2,530,210, Nov. 14.

Snider, Alva V.: *See*—
Morris, Rupert C., and Snider.

Snider, Kenneth M., assignor of one-half to M. A. Knapp, Mansfield, Ohio. High-pressure coupling. 2,529,821, Nov. 14.

Snowden, Ward E., and H. F. Raynor, assignors, by mesne assignments, to W. E. Snowden, Modesto, Calif. Dual valve unit. 2,529,852, Nov. 14.

Societe Anonyme des Usines Chausson, assignee: *See*—
Chausson, Gaston.

Société Anonyme dite: Societe D'Innovations Chimiques dite: Sinnova ou sadic, assignee: *See*—
Blinoff, Vsevolod.

Societe de Produits Chimiques & Engrais d'Auby, assignee: *See*—
Pintiaux, Oscar.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Bessot, Leonce E., and Garet.

Societe Francaise Radio Electrique, assignee: *See*—
Chireix, Henri.
Villem, Raymond.

Societe Rateau (Societe Anonyme), assignee: *See*—
Imbert, Roger J.
Sédille, Marcel H. L., and Imbert.

Société Union D'Electricite, assignee: *See*—
Chevallier, André.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Baker, Charles O.
Kehrer, Eddie R.

Sognefest, Peter: *See*—
Roberts, Howell L., and Sognefest.

"Solvay & Cie," assignee: *See*—
Gonze, Max.

Sommer, Alfred, Iver, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, Electron discharge device. 2,529,888, Nov. 14.

Sonnett, William A.: *See*—
Sonnett, William J. and W. A.

Sonnett, William J. and W. A., Ada, Ohio. Form for making inflatable game ball carbasses. 2,529,637, Nov. 14.

Sowden, John C., St. Louis, Mo., assignor to Corn Products Refining Company, New York, N. Y. Carbohydrate C-nitroolefins and preparation. 2,530,342, Nov. 14.

Sparks, William J., Westfield, and J. D. Garber, Cranford, N. J., assignors to Standard Oil Development Company. Low-temperature polymerization process for unsaturates. 2,529,520, Nov. 14.

Speed, Donald K., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Transponder tester circuit. 2,530,093, Nov. 14.

Sperber, Nathan, Bronx, and D. Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Trisubstituted acetic acids. 2,529,521, Nov. 14.

Sperry Corporation, The, assignee: *See*—
Bates, Mortimer F.
Woodyard, John R.

Sperry Gyroscope Company Limited, The, assignee: *See*—
Jofeh, Lionel.

Spindel-, Motoren-und Maschinenfabrik, A. G., assignee: *See*—
Beerli, Karl.

Spradlen, William F., assignor to Royal Manufacturing Co., Inc., Knoxville, Tenn. Rocking chair. 2,529,638, Nov. 14.

Sprague Electric Company, assignee: *See*—
Robinson, Preston, and Reid.

Square D Company, assignee: *See*—
Allen, Wallace T.

Stacey, Ernest W., Beverly, and A. D. Willhauck, Stoneham, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Charger for automatic guns. 2,529,822, Nov. 14.

Standard Oil Company, The, assignee: *See*—
Hughes, Everett C., and Campbell.

Standard Oil Development Company, assignee: *See*—
Abraham, Albert, Jr.
Bannon, John H.
Benoliel, Robert W., and Flanagan.
Carlson, Carl S.
Holder, Clinton H.
Hudson, Boyd E., Jr.
McAteer, James H., Morrell, Small, and Yowell.
Mikeska, Louis A., and Kittleson.
Sparks, William J., and Garber.
Watts, Rhea N.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Nystrom, Karl T.

Stanley, Malcolm N., Newton, Mass. Collapsible boat. 2,529,745, Nov. 14.

Stanolind Oil and Gas Company, assignee: *See*—
Michael, Vesta F.
Murray, Wallace J.
Reichl, Eric H.

Starr, Merle A., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Plan position indicator. 2,529,823, Nov. 14.

Statham, Louis D., Beverly Hills, Calif., assignor to Curtiss-Wright Corporation. Strain measuring instrument. 2,530,184, Nov. 14.

Staunt, Martin, Chicago, Ill. Dental hand piece 2,529,824, Nov. 14.

Stearns, Frank H., Meriden, assignor, by mesne assignments, to B. B. Sales Company, Lebanon, N. H. Drawing roll. 2,530,094, Nov. 14.

Stebbins, Albert H., Little Rock, Ark. Container filling machine. 2,530,211, Nov. 14.

Steel Heddle Manufacturing Company, assignee: *See*—
Kaufmann, John J.

Steele, Howard L., Jr., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron discharge device. 2,530,185, Nov. 14.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Illuminating device for uniformly and diffusely illuminating a background. 2,530,133, Nov. 14.

Steinway & Sons, assignee: *See*—
Bilhuber, Paul H.

Sterling Drug Inc., assignee: *See*—
Kwartler, Charles E., and Lucas.
King, John A.

Stern, Nathan N., Cleveland, Ohio. Torch construction for electric lighters. 2,529,746, Nov. 14.

Sterzer, Peter, Muskegon, Mich. Spring mounting for seats. 2,529,639, Nov. 14.

Stevens-Arnold Inc., assignee: *See*—
Reifel, Harry.

Stevens, Curtis T., St. Simons Island, Ga. Stove attachment. 2,530,095, Nov. 14.

Stevens, Wayne R.: *See*—
Kirkwood, Walter B., and Stevens.

Stoll, Max, assignor to Firmenich & Co., Successeurs de la societe anonyme M. Naef & Cie., Geneva, Switzerland. Preparation of cyclic 1,2-ketols having 10 to 18 carbon atoms in ring. 2,529,825, Nov. 14.

Storey, Everett, Chicago, Ill. Toy explosive. 2,530,317, Nov. 14.

Strandberg, Oscar M., Enskede, Sweden. Manufacturing handles for carrying bags and the like. 2,529,976, Nov. 14.

Strasburger, Le Roy V., Baltimore, Md. Foods. 2,530,212, Nov. 14.

Streed, David D. M.: *See*—
Van Buskirk, Edward C., Streed, and Flood.

Sudman, Israel H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical control apparatus. 2,530,096, Nov. 14.

Sullivan, Clifford E., Reisterstown, Md. Road sanding machine. 2,529,889, Nov. 14.

Sun Oil Company, assignee: *See*—
Hirschler, Alfred E.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Sundstrand Machine Tool Co., assignee: *See*—
Hoy, John B.

Sunroc Refrigeration Company, assignee: *See*—
Morrison, Samuel O.

Superior Coach Corporation, assignee: *See*—
Schofield, Earl L.

Sutter, Paul: *See*—
Moergeli, Eduard, Sutter, and Kern.

Sutton, Roy R., Winfield, Kans. Tubeless tire. 2,530,213, Nov. 14.

Swebilius, Carl G., Hamden, Conn. Action slide for firearms. 2,530,363, Nov. 14.

Swindin, Norman, London, England. Cleaning device for submersible burner. 2,530,270, Nov. 14.

Swindin, Norman, London, England. Submerged flame burner. 2,530,271, Nov. 14.

Swyke, August J.: *See*—
McBrayer, Marvin L., and Swyke.

Sylvania Electric Products Inc., assignee: *See*—
Barker, Charles E.
Fales, Forrest G.
Levenson, Solomon.

Syndicate Glass, Inc., assignee: *See*—
Walker, Carl R.

Taggart, Donald C., Westfield, assignor to The General Cellulose Company, Inc., Garwood, N. J. Folded tissues and dispenser therefor. 2,529,853, Nov. 14.

Tammen and Denison, Inc., assignee: *See*—
Denison, William E.

Tarwater, Lawson, assignor of one-third to N. P. Marshall, one-third to W. S. Marshall, and one-third to G. H. Ide, Redlands, Calif. Combination lock nut and washer. 2,529,854, Nov. 14.

Tate, Herman D.: *See*—
Harris, Walter D., Tate, and Zukel.

Tatra narodni podnik, assignee: *See*—
Březek, Rudolf.

Taylor Instrument Companies, assignee: *See*—
Howard, George E.

Taylor, Ralph B., Sr., East Cleveland, Ohio, and R. Whewell, Jr., New Bedford, Mass., assignors to The Warner & Swasey Company, Cleveland, Ohio. Cloth cutter. 2,530,134, Nov. 14.

Teague, Ernest D., Welwyn Garden City, England, assignor to Norton Company, Worcester, Mass. Organic bonded abrasive product. 2,529,712, Nov. 14.

Teel, Jess E., assignee: *See*—
Bates, Harry U., and Perkins.

Temko, Richard S.: *See*—
Simon, Justin, and Temko.

Tex-O-Kan Flour Mills Company, assignee: *See*—
Thrasher, William B.

Thermactor Corporation, assignee: *See*—
Ackley, Charles S.

Thomas, Cecil A. P., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Warm air and hot-water heating apparatus. 2,529,977, Nov. 14.

Thomas, William, San Francisco, Calif. Desk or pocket bevel. 2,529,640, Nov. 14.

Thomforde, Lawrence W., assignee: *See*—
Biery, Arthur.

Thompson, Gladys G., St. Louis, Mo. Sachet. 2,529,578, Nov. 14.

Thompson, Leland E., Merchantville, N. J., assignor to Radio Corporation of America. Frequency control of high-frequency oscillations. 2,529,579, Nov. 14.

Thompson Products, Inc., assignee: *See*—
Booth, James H.

Thompson, Russell G., assignor to Eastman Kodak Company, Rochester, N. Y. Facsimile copying apparatus. 2,529,978, Nov. 14.

Thomson, Thomas: *See*—
Whitworth, Edward, and Thomson.

Thorn Electrical Industries Limited, assignee: *See*—
Levy, Hans R.

Thrasher, William B., San Antonio, assignor to Tex-O-Kan Flour Mills Company, Dallas, Tex. Removing seed coat from grain. 2,530,272, Nov. 14.

Thurston, Gerald, assignor to Lightoller Company, New York, N. Y. Picture frame containing bed light and indirect light units. 2,529,713, Nov. 14.

Timken Roller Bearing Company, The, assignee: *See*—
Laase, Charles A.

Tipton Furniture Company, Inc., assignee: *See*—
Kirkwood, Walter B., and Stevens.

Tipton Mfg. Co., Inc., assignee: *See*—
Ehlert, Elmer R.

Toorell, Sture, assignor to Aktiebolaget Facit, Atvidaberg, Sweden. Aligning means for crawl-carry transfer mechanism. 2,529,747, Nov. 14.

Torburn, Gustav P., San Carlos, Calif. Prefabricated railway refrigerator car. 2,529,641, Nov. 14.

Tornblom, Nils A., assignor to Appleton Electric Company, Chicago, Ill. Vented explosion-proof lighting fixture. 2,530,135, Nov. 14.

Toth, Louis, Flushing, N. Y. Latch. 2,529,748, Nov. 14.

Tousignan, Eugene J.: *See*—
Bortner, William A., Collins, and Tousignan.

Tranin Egg Products Company, assignee: *See*—
Payton, Allen L.

Tri-Clover Machine Co., assignee: *See*—
Ebert, Walter.

Trimm, Ernest L., and N. Arnow, Norfolk, Va. Portable spraying apparatus for molten materials. 2,530,186, Nov. 14.

Troth, Lawrence E., Chevy Chase, Md. Pickup delivery truck. 2,530,097, Nov. 14.

Tru-Mark Mfg., Inc., assignee: *See*—
Diuk, Stanley.

Tung-Sol Lamp Works, Inc., assignee: *See*—
Atkins, Carl E.

Turkowski, Walter, Hollywood, Ill. Venetian blind. 2,529,714, Nov. 14.

Turnbull, Eileen M., assignee: *See*—
Turnbull, Robert B.

Turnbull, Robert B., Holly, assignor of one-third to E. M. Turnbull and one-third to J. H. Bush, Flint, Mich. Sheet material toy aircraft. 2,529,979, Nov. 14.

Twin Disc Clutch Company, assignee: *See*—
Foster, Maurice.

Tyrner, Joseph M., New York, N. Y., and N. E. Anderson, Scotch Plains, N. J., assignors to Air Reduction Company, Incorporated. Arc welding method and apparatus. 2,529,715, Nov. 14.

Unarco Incorporated, assignee: *See*—
Lach, John.

Union Asbestos & Rubber Company, assignee: *See*—
O'Connor, Arthur F.

United Aircraft Corporation, assignee: *See*—
Jensen, Harry T., and Hiller.
Sikorsky, Igor I., Hunt, and Katzenberger.

United-Carr Fastener Corporation, assignee: *See*—
Woodward, Clement A.

United Shoe Machinery Corporation, assignee: *See*—
Bertrand, Frederic E.
Cole, Frank E.
Ryan, George F.
Stacey, Ernest W., and Willhauck.

United States Atomic Energy Commission, United States of America, as represented by the, assignee: *See*—
Lawrence, Ernest O., Waithman, and Schmidt.
Powell, Wilson M.
Rathkamp, William R.
Sands, Matthew L.

United States Gypsum Company, assignee: *See*—
Dailey, Manvel C., and Parsons.

United States Rubber Company, assignee: *See*—
Harris, Walter D., Tate, and Zukel.
Van Buskirk, Edward C., Streed, and Flood.

Universal Oil Products Company, assignee: *See*—
Adams, George F.
Bloch, Herman S.
Deanesly, Richard M.

Universal Properties, Inc., assignee: *See*—
Martin, Earnest E.

Vaksvik, Adrian J., and M. B. Arisman, assignors to Chicago Telephone Supply Corporation, Elkhart, Ind. Snap switch. 2,529,716, Nov. 14.

Van Atta, Lester C., Winchester, Mass., assignor, by mesne assignments to the United States of America as represented by the Secretary of War. Antenna. 2,530,098, Nov. 14.

Van Buskirk, Edward C., and D. D. M. Streed, South Bend, and J. H. Flood, Mishawaka, Ind., assignors to United States Rubber Company, New York, N. Y. Adhesive composition and structure embodying same. 2,530,099, Nov. 14.

Van der Auwera, Laurent A.: *See*—
Van Dormael, André E., and van der Auwera.

Vanderpool, Clarence D., Jr., Towanda, Pa. Fishing line float. 2,530,100, Nov. 14.

Vander Weele, John C.: *See*—
Britton, Edgar C., Vander Weele, and Livak.

Van Dormael, André E., Heverlee-Louvain, and L. A. Van der Auwera, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Producing antihalation photographic article. 2,529,890, Nov. 14.

Van Hook, John O., Philadelphia, and W. J. Croxall, Bryn Athyn, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of aryl diketones. 2,530,273, Nov. 14.

Van Loon, Carel J., and H. A. Broos, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Low-frequency amplifying circuits with negative feedback. 2,530,101, Nov. 14.

Van Scoyk, Melvin W., assignor to Winner Equipment Company, Denver, Colo. Vulcanizing mold press. 2,529,522, Nov. 14.

Van Steenbrugghe, Henri, Paris, France. Dismountable articulating part for surgical or other instruments. 2,530,136, Nov. 14.

Vapor Heating Corporation, assignee: *See*—
Holthouse, Harry B.

Vaughn, Ralph H., and C. M. Loflen, Oak Ridge, Tenn. Fish lure. 2,529,642, Nov. 14.

Vetorino, Frank, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Cylinder door band lock. 2,529,643, Nov. 14.

Vickers-Armstrongs Limited, assignee: *See*—
Nasmith, John I.
Watson, John P.

Vickers Incorporated, assignee: *See*—
Harrington, Ferris T.
Weathers, Leland C.

Victrylite Candle Company, assignee: *See*—
Banks, Charles T.

Villem, Raymond, Paris, France, assignor to Societe Francaise Radio-Electrique. Radio-electric transmitting system. 2,529,667, Nov. 14.

Violet, André, Boulogne-Billancourt, France. Indicating tuning device, particularly for frequency-modulation receivers. 2,529,980, Nov. 14.

Vittum, Paul W., assignor to Eastman Kodak Company, Rochester, N. Y. Bleaching silver images. 2,529,981, Nov. 14.

Vogel, Edward A., and H. R. Lindbeck, Beloit, Wis., assignors to Fairbanks, Morse & Co., Chicago, Ill. Impulse coupling. 2,529,891, Nov. 14.

Von Bampus, Richard R., Ringwood, Ill. Portable foundation wall form. 2,530,102, Nov. 14.

Voss, John H., Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Circuit for identifying the trunk connected to an operator's position. 2,530,103, Nov. 14.

Voss, John H., Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay automatic telephone system. 2,530,104, Nov. 14.

Vuille, Bernard A., assignor to Watford Electric & Manufacturing Company Limited, Watford, England. Apparatus for comparing the rates of operation of two contact devices. 2,530,214, Nov. 14.

Vulcan Radiator Company, The, assignee: *See*—
Waterman, George D.

Waddill, Paul M., Martiesville, Okla., assignor to Phillips Petroleum Company. Thermal and catalytic cracking of hydrocarbons. 2,529,790, Nov. 14.

Wade, Estes M., Burlingame, and L. J. Costa, Oakland, Calif.; said Costa assignor to said Wade. Lifting velocipede. 2,529,749. Nov. 14.

Waithman, Victor B.: *See*—
Lawrence, Ernest O., Waithman, and Schmidt.

Walker, Carl R., assignor to Syndicate Glass, Inc., Indianapolis, Ind. Counter partition holder. 2,529,826, Nov. 14.

Wallace, David A., Grosse Pointe Farms, Mich. Combined hoisting apparatus and automatic cover structure therefor. 2,530,137, Nov. 14.

Wallace, Paul E., Omaha, Nebr. Jack. 2,530,138, Nov. 14.

Wallace, Robert L., Jr., Coolidge, Tex., assignor to the United States of America as represented by the Office of Scientific Research and Development. Making a diver's combined hose and electrical communication line cable. 2,530,105, Nov. 14.

Walter, John M., assignor to The G. A. Gray Company, Cincinnati, Ohio. Counterbalanced apron for planers and the like. 2,530,343, Nov. 14.

Walter, Lewis A., East Orange, N. J., assignor to Maltbie Laboratories, Inc. 1-o-aminobenzoyl-2-β-hydroxyethylpiperidine. 2,529,982, Nov. 14.

Walton, George M., Shaker Heights, assignor, to Air-Maze Corporation, Cleveland, Ohio. Liquid strainer. 2,529,580, Nov. 14.

Wang, Chao C., South Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron discharge device of cavity resonator type with reverse flow of electrons. 2,529,668, Nov. 14.

War, United States of America as represented by the Secretary of, assignee: *See*—
Driscoll, Clare.
Holdam, James V., Jr., and Jones.
Jones, Clarence W.
Kelly, William I., and Livingood.
Riblet, Henry J.
Speed, Donald K.
Sudman, Israel H.
Van Atta, Lester C.
Yeater, Max L.

Ward, Frank: *See*—
Morton, Hhomas H., and Ward.

Warner & Swasey Company, The, assignee: *See*—
Taylor, Ralph B., Sr., and Whewell.

Warp, Harold, Chicago, Ill., assignor to Flex-O-Glass, Inc. Reinforced plastic sheet. 2,530,106, Nov. 14.

Waterman, George D., assignor to The Vulcan Radiator Company, Hartford, Conn. Flexible corner. 2,529,855, Nov. 14.

Watford Electric & Manufacturing Company Limited, assignee: *See*—
Vuille, Bernard A.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Mineral lubricating oil composition. 2,529,523, Nov. 14.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Mineral oil composition. 2,529,524, Nov. 14.

Watson, John P., Westminster, London, assignor to Vickers-Armstrongs Limited, London, England. Power follow-up system or remote control system. 2,529,669, Nov. 14.

Watson, Kenneth: *See*—
Pullin, Cyril G., and Watson.

Watt, James, Chelmsford, assignor to Marconi Sounding Device Company Limited, London, England. Echo sounder and other device for distance measuring in water. 2,530,035, Nov. 14.

Watt, William T.: *See*—
West, Herbert J., and Watt.

Watts, Rhea N., Baton Rouge, La., assignor to Standard Oil Development Company. Hydrocarbon synthesis with spherical catalyst particles. 2,530,344, Nov. 14.

Watts, Rhea N., Baton Rouge, La., assignor to Standard Oil Development Company. Preparation of a spheroidal Fischer-Tropsch catalyst. 2,530,345, Nov. 14.

Weatherhead Company, The, assignee: *See*—
Beerli, Norbert C.
Herold, Robert E.
Raybould, Frank J.

Weathers, Leland C., Plymouth, assignor to Vickers Incorporated, Detroit, Mich. Alternating current commutator machine. 2,529,525, Nov. 14.

Weathers, Leland C., Plymouth, assignor to Vickers Incorporated, Detroit, Mich. Alternating current commutator machine. 2,529,526, Nov. 14.

Webb, Jervis B., Company, assignee: *See*—
Robinson, George H.

Webb, Richard C., Princeton, N. J., assignor to Radio Corporation of America. Color television receiving system. 2,530,107, Nov. 14.

Webber, Robert C., Indianapolis, Ind. Expansible closure for containers. 2,529,644, Nov. 14.

Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater system and operation. 2,530,274, Nov. 14.

Webster Electric Company, assignee: *See*—
Campbell, Richard H.

Wehrli, Walter, and E. Iselin, assignors to Sandoz Limited, Basel, Switzerland. Copper complex compounds of substantive azo dyestuffs and making same. 2,529,527, Nov. 14.

Weimann, Henry: *See*—
Perenl, Edmund, and Weimann.

Weingart, Richard I. N., New York, N. Y. Ticket machine. 2,529,750, Nov. 14.

Weingarten, Joseph, Boston, Mass. Cathode-ray tube image control. 2,530,275, Nov. 14.

Weir, Richard L., Warren, Ohio, assignor of thirty percent to V. Mulvaney, Cheyenne, Wyo. Rotor for helicopters. 2,530,276, Nov. 14.

Welding Research, Inc., assignee: *See*—
Sciaky, David.

Wells, Earl J., Comptche, Calif. Chuck. 2,530,318, Nov. 14.

Welte, Benedict: *See*—
Pataki, Denes, and Welte.

Welte, Benedict, Lake Orion Township, Oakland County, assignor to Colonial Broach Company, Detroit, Mich. Broaching machine. 2,529,718, Nov. 14.

Wenger, Wiley D., Riverton, N. J., assignor to Radio Corporation of America. Heat sealing applicator with removable electrode. 2,529,717, Nov. 14.

Wentworth, Chandler, Princeton, N. J., assignor to Radio Corporation of America. High dielectric materials and producing them. 2,529,719, Nov. 14.

West, Herbert J., and W. T. Watt, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing water-soluble melamine-formaldehyde resins and products thereof. 2,529,856, Nov. 14.

West, James R.: *See*—
Jones, Frank D., and West.

Westerlin & Campbell Company, assignee: *See*—
Boyle, John R.

Western Electric Company, Incorporated, assignee: *See*—
Bain, Lewis A., Jr.
Bartusek, Joseph F.
Bohaboy, Edward J.
Cihlar, Anthony J., and Moore.
Duncan, Julian J.
Franz, Erwin E.
Larson, Harry R.
Marcus, Jerome R.
Nelson, Oscar G.
Schaid, Arthur J.

Westinghouse Electric Corporation, assignee: *See*—
Knochel, William J., and Wiener.
McLean, John A., Jr.
Okrent, Ernest C.
Slack, Charles M.
Steele, Howard L., Jr.
Wang, Chao C.
Wright, Robert L.

Weston, Roger D.: *See*—
Ambler, Robert R., and Weston.

Wheeling Stamping Company, assignee: *See*—
Kelly, Howard A., Sr.

Whewell, Robert, Jr.: *See*—
Taylor, Ralph B., Sr., and Whewell.

Whichard, Flodquist, and Company, assignee: *See*—
Whichard, Thomas F., Sr., C. E. and O. B. Flodquist.

Whichard, Thomas F., Sr., and C. E. Flodquist, Detroit, and O. B. Flodquist, Pleasant Ridge, Mich., assignors to Whichard, Flodquist and Company. Traction device. 2,530,108, Nov. 14.

White, Edna V., Wheelersburg, Ohio. Bathtub handbag. 2,529,983, Nov. 14.

White, John W.: *See*—
Mallory, Edwin E., and White.

White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Angell, Robert C., and Browne.

White, William H., Roanoke, Va., assignor to Morris B. Brewster Co., Inc., Chicago, Ill. Sand trap. 2,529,751, Nov. 14.

Whitehead, Maurice: *See*—
Prince, John, and Whitehead.

Whitney Blake Company, The, assignee: *See*—
Cook, Wallace L.

Whittle, Charles E., Brunswick, Ga. Method and apparatus for loading and transporting logs and other materials. 2,529,752, Nov. 14.

Whitworth, Edward, West Kilbride, and T. Thomson, Kilmarnock, Scotland, assignors to Imperial Chemical Industries Limited. Power gas generating cartridge. 2,529,791, Nov. 14.

Wiederkehr, Hans, Zurich, and R. Feiss, assignors to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Air-cooled supercharged combustion engine. 2,529,984, Nov. 14.

Wiegand, Francis J., and D. W. Meador, Ridgewood, N. J., assignors to Wright Aeronautical Corporation. Power control. 2,530,139, Nov. 14.

Wiegert, Arthur E., Lenawee County, Mich. Clothespin. 2,530,277, Nov. 14.

Wiener, Charles: *See*—
Knochel, William J., and Wiener.

Wiepert, George D., Branford, assignor to The Merriam Manufacturing Company, Durham, Conn. Rotary package holder for attachment to shelves. 2,529,581, Nov. 14.

Wiessner, Robert, Vienna, Austria, assignor to A. Dubsky, Elmhurst, N. Y. Flint tensioning means for lighters. 2,529,857, Nov. 14.

Wild, Rudolf F., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring and controlling apparatus. 2,530,109, Nov. 14.

Willhauck, Augustus D.: *See*—
Stacey, Ernest W., and Willhauck.

Williams, Allison R., Washington, D. C. Deceleration brake control. 2,529,985, Nov. 14.

Williams, Edward M., Houston, Tex. Awning. 2,530,036, Nov. 14.

Williams, Fred E.: *See*—
Nicoll, Frederick H., and Williams.

Williams, Gordon M., Glens Falls, N. Y., assignor to New Wrinkle, Inc., Dayton, Ohio. Modification of drying oils. 2,529,528, Nov. 14.

Williams, John C., Oakland, Calif. Vertical boring machine. 2,529,753, Nov. 14.

Willis, Paul, San Francisco, Calif. Envelope moistener and sealer. 2,530,037, Nov. 14.

Wilson, Donald T., assignee: *See*—
Smiley, Joseph C., Jr.

Winks, John, and L. Fletcher, assignors to Lowell Specialty Company, Lowell, Mich. Spraying apparatus. 2,529,645, Nov. 14.

Winner Equipment Company, assignee: *See*—
Van Scoyk, Melvin W.

Wirz, A. H., Inc., assignee: *See*—
Darlington, Henry S.

Witmer, Paul B., Lancaster, Pa. Window regulator with variable counterbalance. 2,529,986, Nov. 14.

Wityaz, William, and F. Kendra, Chicago, Ill. Storm sash ventilator and deflector. 2,529,792, Nov. 14.

Wolf, Joseph, Hood River, Oreg. Combination chain saw servicing tool. 2,529,646, Nov. 14.

Wolf, William A., Medina, Wis. Tail gate actuating mechanism. 2,530,346, Nov. 14.

Wolfe, William F., Decatur, Ga. Baseball game. 2,530,187, Nov. 14.

Wolters, Carl F., New Canaan, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Card index tray and bottom stop therefor. 2,529,987, Nov. 14.

Woodward, Clement A., Wellesley, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical switch. 2,530,364, Nov. 14.

Woodyard, John R., Garden City, N. Y., assignor to The Sperry Corporation. Nonlinear circuit device utilizing germanium. 2,530,110, Nov. 14.

Woolf, James W., Franklin, Pa., assignor to Joy Manufacturing Company. Plural series motor starting system. 2,530,278, Nov. 14.

Woolf, James W., Franklin, Pa., assignor to Joy Manufacturing Company. Dual electric motor series parallel starting circuit. 2,530,279, Nov. 14.

Wright Aeronautical Corporation, assignee: *See*—
Wiegand, Francis J., and Meador.

Wright, Robert L., Severna Park, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Load reading voltmeter. 2,530,188, Nov. 14.

Wurlitzer, Rudolph, Company, The, assignee: *See*—
Hayslett, Lamar E.

Wylie, D. Otis, Charlotte, N. C. Inspection and cleaning table for textiles. 2,530,038, Nov. 14.

Yarnell, John D., Seattle, Wash. Screen for paint guns. 2,529,827, Nov. 14.

Yarrow, Joseph S., Litchfield County, Conn. Mounting means for oscillatory display devices. 2,529,720, Nov. 14.

Yeater, Max L., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secrtary of War. Indicating ionization pressure. 2,530,111, Nov. 14.

Young, Henry B.: *See*—
Kirkpatrick, Ruel, and Young.

Young, Irvin L., Chicago, Ill. Hoist chain equipment. 2,529,858, Nov. 14.

Young, Irvin L., Chicago, Ill. Paper-cutting machine. 2,530,319, Nov. 14.

Yowell, Howard L.: *See*—
McAteer, James H., Morrell, Small, and Yowell.

Zahodiakin, Victor F., Short Hills, N. J. Fastening device. 2,529,582, Nov. 14.

Zeigler, Albert H.: *See*—
Bluhm, Fred A., Hayes, and Zeigler.

Zemansky, Philip D., San Francisco, Calif. Locating neutral point brush settings. 2,529,529, Nov. 14.

Zempel, Edward A., Milwaukee, Wis., assignor to W. T. Meinhardt, Cook County, Ill. Tool. 2,529,988, Nov. 14.

Zidar, Anton, Cleveland, Ohio. Upstanding handle for floor shears. 2,530,215, Nov. 14.

Zimbelman, George W., Signal Mountain, assignor to Samuel Stamping and Enameling Company, Chattanooga, Tenn. Hot-air gas heater with radiant. 2,529,828, Nov. 14.

Zukel, John W.: *See*—
Harris, Walter D., Tate, and Zukel.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Lightning arrester and fuse construction, Combined. R. H. Earle. Re. 23,293, Nov. 14.

LIST OF DESIGN INVENTIONS

Accordion. D. E. Noble. 160,879, Nov. 14.
Accordion. J. G. Stancato. 160,898, Nov. 14.
Airplane. V. J. Burnelli. 160,841–2, Nov. 14.
Apron, Protective. E. E. Purdon. 160,888, Nov. 14.
Ash tray, glass, and bottle holder, Combination. L. A. Yereb. 160,911, Nov. 14.
Automobile bumper. M. J. O'Leary. 160,880, Nov. 14.
Automobile, Child's walking. L. I. Powell. 160,884, Nov. 14.
Badge or similar article. E. Will and A. E. Du Bois. 160,909, Nov. 14.
Bed back, Hollywood. F. E. Maddux, Sr. 160,872, Nov. 14.
Blouse or similar article. M. Gordon. 160,857, Nov. 14.
Body for a helicopter. E. F. Katzenberger. 160,865, Nov. 14.
Bookstand for Bible or similar article. M. C. Suhren. 160,900–3, Nov. 14.
Bracelet, Expansible. M. Horovitz. 160,861, Nov. 14.
Bracelet, Watch. J. F. Sand. 160,893, Nov. 14.
Camera. D. E. Grove. 160,858, Nov. 14.
Canister unit. L. G. Edmonson. 160,846, Nov. 14.
Cap, Bottle. A. Perlman. 160,881, Nov. 14.
Carrier-rack for fruit jars or the like. E. F. Smith. 160,896, Nov. 14.
Case, Clock. A. E. Koplar. 160,868, Nov. 14.
Clock or similar article. J. Bergman. 160,832, Nov. 14.
Container or similar article, Condiment. P. J. Mesi. 160,876, Nov. 14.
Cover or similar article for electrically heated blankets, Bedspread. J. Goodstein. 160,856, Nov. 14.
Display device. L. L. Sutherland. 160,904, Nov. 14.
Door knocker. S. K. Harker. 160,859, Nov. 14.
Dress or similar article. O. A. Berman. 160,833, Nov. 14.
Game board. L. J. Kalvig. 160,863, Nov. 14.
Game board, Bowling. E. J. Francis. 160,850, Nov. 14.
Glass plate or article of similar nature. T. C. Heisey. 160,860, Nov. 14.
Handle for a brief case or similar article. H. Schneider. 160,894, Nov. 14.
Handle for coffee makers. H. K. Foster. 160,849, Nov. 14.
Holder, Fluorescent lamp. D. Lane. 160,870, Nov. 14.
Holder for playing cards. L. Ungar. 160,906, Nov. 14.
Holder or similar article, Flower. N. W. Roop. 160,892, Nov. 14.
Instrument, Eye testing. C. A. Ellis. 160,847, Nov. 14.
Kite. C. L. Wolford. 160,910, Nov. 14.
Lamp, Wall bracket. C. B. Stevens. 160,899, Nov. 14.
Lawn guide. G. P. Wiedman. 160,908, Nov. 14.
Panel, Elevator starter's. M. J. Brounn. 160,834, Nov. 14.
Panel, Expanded metal. C. L. Moorman. 160,877, Nov. 14.
Piano or similar article. A. P. Brown. 160,839, Nov. 14.
Plate or similar article, Dinner. C. H. McKaig. 160,875, Nov. 14.
Prie-dieu. A. T. Maguolo. 160,873, Nov. 14.
Printing type font. A. Girs. 160,852, Nov. 14.
Pump and motor unit. H. Dreyfuss. 160,845, Nov. 14.
Rack or similar article, Necktie display. M. Aron. 160,830, Nov. 14.
Range, Electric. C. A. Pierson. 160,882, Nov. 14.
Receptacle for rodent poison. J. D. Reifsnyder and S. I. Johnson. 160,890, Nov. 14.
Record player. O. R. Nemeth. 160,878, Nov. 14.
Roughener and shoehorn, Combined bowler's. W. R. Tarrant. 160,905, Nov. 14.
Saw, Chain. W. L. Gillespie. 160,851, Nov. 14.
Seal or similar article, Metal glass. M. N. Glickman and M. Klebanoff. 160,853, Nov. 14.
Set of bridge playing game tablets. A. L. Redden. 160,889, Nov. 14.
Sewing accessory doll. C. P. Walsh. 160,907, Nov. 14.
Sheet feeding apparatus, Automatic. E. L. Johnson. 160,862, Nov. 14.
Shingle. E. J. Kellogg. 160,866, Nov. 14.
Shirt or the like. D. A. Pope. 160,883, Nov. 14.
Sign, Street directional. M. J. Burke. 160,840, Nov. 14.
Sled, Child's. Z. Kubiak. 160,869, Nov. 14.
Slipper. M. N. Brower. 160,835–8, Nov. 14.
Slipper, Child's. C. A. Renz. 160,891, Nov. 14.
Suit, Child's hooded. J. Astrove. 160,831, Nov. 14.
Sun shield or similar article. I. Sors and A. Abrahamson. 160,897, Nov. 14.
Swimming pool. K. H. Larkin. 160,871, Nov. 14.
Teakettle. M. S. Ziskin and R. B. Billig. 160,912, Nov. 14.
Telephone dialer, Automatic. J. Kilburg. 160,867, Nov. 14.
Toy animal figure. A. N. Marshall. 160,874, Nov. 14.
Toy tortoise, Wheeled. H. Sebel. 160,895, Nov. 14.
Tractor, Child's walking. L. I. Powell. 160,886, Nov. 14.
Tray, Egg. S. B. Ernster. 160,848, Nov. 14.
Tray, log, and salt and pepper shaker, Combined. W. E. Copeland. 160,844, Nov. 14.
Tricycle, Child's walking. L. I. Powell. 160,887, Nov. 14.
Tumbler. W. L. Cone. 160,843, Nov. 14.
Utensil or similar article, Cooking. M. Kaplowitz and M. Hirsch. 160,864, Nov. 14.
Vehicle, Child's. L. I. Powell. 160,885, Nov. 14.
Wind deflector. L. M. Goldstine and L. A. Hunting. 160,854–5, Nov. 14.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive product, Organic bonded. E. D. Teague. 2,529,712, Nov. 14.
Absorption-type modulation system. C. M. Sinnett. 2,530,087, Nov. 14.
Acetic acids, Trisubstituted. N. Sperber and D. Papa. 2,529,521, Nov. 14.
Acid-fading inhibition using certain 1,4-diaryl piperazines. H. W. Grimmel and A. Guenther. 2,529,935, Nov. 14.
Adapter. N. C. Beerli. 2,529,534, Nov. 14.
Adhesive composition. P. H. Scrutchfield. 2,529,851, Nov. 14.
Adhesive composition and structure embodying same. E. C. Van Buskirk, D. D. M. Streed, and J. H. Flood. 2,530,099, Nov. 14.
Adhesive tape dispenser. T. H. Krueger and E. E. Sharpe. 2,530,335, Nov. 14.
Adjustable back reclining chair. N. Perry. 2,530,264, Nov. 14.
Adjustable sewing machine light. M. Ingwer. 2,530,123, Nov. 14.
Aerial navigation. H. Chireix. 2,530,287, Nov. 14.
Agricultural and like implements, Power-driven. G. H. F. Knight. 2,529,614, Nov. 14.
Air bag stem. F. C. Green. 2,530,055, Nov. 14.
Air circulating apparatus. J. R. Boyle. 2,529,592, Nov. 14.
Air conditioner. T. H. Garvey and P. V. Scally. 2,529,839, Nov. 14.
Airconditioning apparatus having control means. P. Edberg. 2,530,158, Nov. 14.
Air-cooled supercharged combustion engine. H. Wiederkehr and R. Feiss. 2,529,984, Nov. 14.
Aircraft with plural rotors, Rotary-wing. C. G. Pullin and K. Watson. 2,529,629, Nov. 14.
Air inlet structure for rear engine compartments of streamlined vehicles. R. Břežek. 2,529,994, Nov. 14.
Air moistener. A. Giacobello. 2,530,195, Nov. 14.
Airplane approach control system. N. B. Coley. 2,529,596, Nov. 14.
Airplane cross-wind undercarriage. J. H. Geisse. 2,529,932–3, Nov. 14.
Air vent valve. W. W. Carron. 2,529,834, Nov. 14.
Aligning means for crawl-carry transfer mechanism. S. Toorell. 2,529,747, Nov. 14.
Aliphatic alcohols, Preparation of. W. Hunter. 2,529,553, Nov. 14.
Alkyd foam resins, Unsaturated. J. B. Ott. 2,529,512, Nov. 14.
Alkyl isodehydroacetates, Preparing. H. W. Coover, J. E. Guillet, and J. B. Dickey. 2,529,917, Nov. 14.
Alkylene polyamine derivatives. F. C. Bersworth. 2,530,147, Nov. 14.
Ambulance cot hook. E. L. Schofield. 2,529,517, Nov. 14.
Ammonium salts and magnetic iron oxide from solutions of ferrous salts, Manufacturing. R. D. Hoak. 2,529,874, Nov. 14.
Ammunition for recoilless firearms. W. J. Kroeger and C. W. Musser. 2,529,504, Nov. 14.
Amplifier for musical instruments, Tone. A. De Luca. 2,530,155, Nov. 14.
Anisole, Preparation of. W. D. Smutz. 2,529,887, Nov. 14.
Antenna. L. C. Van Atta. 2,530,098, Nov. 14.
Antenna system, Directive. H. J. Riblet. 2,530,079, Nov. 14.
Apparatus and method for use in making ribbed strips for insoles. F. E. Bertrand. 2,529,793, Nov. 14.
Apparatus for coating paper with carbon wax. J. Lach. 2,529,699, Nov. 14.
Apparatus for combining two cameras. W. L. Berssenbrugge. 2,529,905, Nov. 14.
Apparatus for comparing the rates of operation of two contact devices. B. A. Vuille. 2,530,214, Nov. 14.
Apparatus for conditioning bagged material. C. D. Fox. 2,529,548, Nov. 14.
Apparatus for continuously and instantly measuring efficiency. J. M. Krafft. 2,529,615, Nov. 14.
Apparatus for determining movability of members in wells. P. W. Martin. 2,530,308, Nov. 14.
Apparatus for drying and expediting the setting of plastic concrete. J. G. A. Johnson. 2,529,500, Nov. 14.
Apparatus for making stems for electrical devices. W. J. Knochel and C. Wiener. 2,530,168, Nov. 14.
Apparatus for manufacture of trusses. S. Keller. 2,529,556, Nov. 14.
Apparatus for manufacturing closures from flexible plastic material. R. H. McClellan. 2,529,847, Nov. 14.
Apparatus for measuring local variations in flux density in a magnetic field. W. M. Powell. 2,530,176, Nov. 14.
Apparatus for mixing liquids. A. L. Payton. 2,530,174, Nov. 14.
Apparatus for repairing radiators. J. H. Jost. 2,530,333, Nov. 14.
Apparatus for saturating edge portions of fiber boards. C. G. Muench. 2,530,026, Nov. 14.
Apparatus for testing coatings. J. R. Marcus. 2,530,257, Nov. 14.
Apparatus for treating film or the like. W. R. Harlow. 2,529,495, Nov. 14.
Applicator for treatment of diseases of the udder. H. S. Darlington. 2,529,836, Nov. 14.
Applicator with controlled feed, Portable fluid. J. J. Duncan. 2,530,234, Nov. 14.
Applicator with removable electrode, Heat sealing. W. D. Wenger. 2,529,717, Nov. 14.
Apron for planers and the like, Counterbalanced. J. M. Walter. 2,530,343, Nov. 14.
Apron mount and control for carry-type scrapers. D. E. Murray. 2,529,848, Nov. 14.
Arc welding method and apparatus. J. M. Tyrner and N. E. Anderson. 2,529,715, Nov. 14.
Arc welding, Method of and apparatus for. V. Peters. 2,529,812, Nov. 14.
Aromatic compounds, Halogenated. P. Robinson and C. C. Reid. 2,530,080, Nov. 14.
Arrangement for the starting of two shaft gas turbine propelling means chiefly on board of aircraft. M. H. L. Sédille and R. J. Imbert. 2,529,973, Nov. 14.
Arrangement of mufflers and vehicle body chambers therefor. R. Břežek. 2,529,995, Nov. 14.
Article delivery mechanism. C. H. Dixon. 2,529,600, Nov. 14.
Articulating part for surgical or other instruments, Dismountable. H. van Steenbrugghe. 2,530,136, Nov. 14.
Artificial leg (diaphragm knee lock control). J. G. Catranis. 2,530,285, Nov. 14.
Aryl diketones, Preparation of. J. O. Van Hook and W. J. Croxall. 2,530,273, Nov. 14.
Atomizer for oil burners. E. C. Smith. 2,530,269, Nov. 14.
Atomizer, Pocket. G. H. Fisher. 2,530,161, Nov. 14.
Attachment for soft drink bottles. J. B. Cheek. 2,530,227, Nov. 14.
Attachment for tractors, Brush spreading. J. H. Q. Burke. 2,529,998, Nov. 14.
Attachment for tractors, Cutter. D. Gracey and E. Cain. 2,529,934, Nov. 14.
Attachment for tractors, Power hammer. A. Q. Adams. 2,529,892, Nov. 14.
Attachment for typewriters, Antijamming. W. A. Gooch. 2,529,604, Nov. 14.
Audience-reaction analyzing system. P. Schwerin. 2,529,519, Nov. 14.
Autofocusing enlarger. A. Ludwig. 2,529,507, Nov. 14.
Automatic control switch. C. W. Kuhn. 2,530,305, Nov. 14.
Awning. E. M. Williams. 2,530,036, Nov. 14.
Axle suspension device for vehicles. A. L. Batik. 2,529,898, Nov. 14.
Azeotropic distillation of mesitylene from isophorone. C. S. Carlson. 2,530,325, Nov. 14.
Bag combined with removable and continuously self-righting cosmetic tray, Traveling. J. L. Overton. 2,529,569, Nov. 14.
Bait casting device. L. S. Behrens. 2,529,901, Nov. 14.
Balanced door. E. Peremi and H. Weimann. 2,530,263, Nov. 14.
Baling press tailboard. F. D. Janes and J. R. West. 2,529,842, Nov. 14.
Bar: *See*—
Simulated log serving bar.
Barn cleaner and loading machine. F. E. McCann. 2,529,954, Nov. 14.
Barometer. I. E. McCabe. 2,530,068, Nov. 14.
Bathtub. A. E. O'Hara. 2,529,568, Nov. 14.
Battery, Deferred action. M. J. Murphy. 2,529,511, Nov. 14.
Bead and wire assemblies, Method and apparatus for the production of. J. Schmidinger. 2,529,971, Nov. 14.
Bearing: *See*—
Ring roll bearing.
Bearing seal. D. Firth. 2,530,052, Nov. 14.
Belt buckle. A. Biery. 2,529,906, Nov. 14.
Bender with sliding side shapers, Reciprocating. E. J. Bohaboy. 2,530,222, Nov. 14.
Binder supply system. H. C. Hettelsater. 2,529,656, Nov. 14.
Blade blocks in hydraulic couplings. M. Foster. 2,529,929, Nov. 14.

Bleaching of organic material. J. D. Brandner. 2,529,831, Nov. 14.
Bleaching silver images. P. W. Vittum. 2,529,981, Nov. 14.
Blowout preventer and stripper, Choking collar. F. J. Schweitzer. 2,529,744, Nov. 14.
Boat, Collapsible. M. N. Stanley. 2,529,745, Nov. 14.
Boat trailer. J. W. Donalson and K. B. Oberhansly. 2,529,925, Nov. 14.
Boiler: *See*—
Water-tube boiler.
Boot drying tree. D. A. Mills. 2,529,565, Nov. 14.
Boring machine, Vertical. J. C. Williams. 2,529,753, Nov. 14.
Bottle top and applicator, Combined. W. Raab. 2,529,964, Nov. 14.
Bottle, Valved nursing. A. E. Brown. 2,529,794, Nov. 14.
Box: *See*—
Shipping and display box.
Bracket and the like, Spindle bar mounting. B. W. Olson. 2,529,738, Nov. 14.
Brake for revolving doors, Gear pump. H. G. E. Nordin. 2,529,811, Nov. 14.
Brake for rotary members, Hydraulic resistance. R. E. Cornwell. 2,529,540, Nov. 14.
Brake pin tool. W. W. Dick. 2,529,599, Nov. 14.
Braking control system, Dynamic. H. C. Roters. 2,530,131, Nov. 14.
Broach, Knurling. C. A. Laase. 2,530,066, Nov. 14.
Broaching machine. D. Pataki and B. Welte. 2,529,705, Nov. 14.
Broaching machine. B. Welte. 2,529,718, Nov. 14.
Brush for cleaning containers. J. Leunis. 2,529,952, Nov. 14.
Buffing and polishing compositions and preparation. A. E. Chester. 2,529,722, Nov. 14.
Bumper hitch. H. C. Green. 2,529,686, Nov. 14.
Burner: *See*—
Cleaning device for submersible burner.
Submerged flame burner.
Burner for liquid or gaseous fuels. P. Lloyd and A. D. Richards. 2,529,506, Nov. 14.
Burner formed of prefabricated panel sections, Slab and sawdust. C. V. Sass. 2,530,208, Nov. 14.
Bushing for electric conductors, Self-locking insulating. E. P. Marsan. 2,530,258, Nov. 14.
Cabinet: *See*—
Parts storing cabinet.
Cabinet for popcorn and the like, Bulk dispensing. M. Ladge. 2,529,877, Nov. 14.
Cabinet having a rotatably mounted shelf unit. E. J. Pelletier. 2,529,960, Nov. 14.
Cable pulling and tightening device. C. A. Kunkel. 2,529,617, Nov. 14.
Cage or live box, Collapsible. E. T., E. C., and C. S. Bjorklund. 2,530,148, Nov. 14.
Calculating apparatus. A. P. Clouez. 2,530,191, Nov. 14.
Calculating machine. E. F. Britten, Jr. 2,530,149, Nov. 14.
Calculator for airplanes, Flight. J. E. Freehafer. 2,529,601, Nov. 14.
Cam actuated clamp. A. M. Campanelli. 2,530,225, Nov. 14.
Camera, Including mirror guides and resilient stop member, Reflex. G. Baer. 2,529,757, Nov. 14.
Can selector. E. C. Galt. 2,529,603, Nov. 14.
Candle residue dispenser. F. Ciano. 2,530,288, Nov. 14.
Car: *See*—
Prefabricated railway refrigerator car.
Car squeeze. E. S. Beckett. 2,529,588, Nov. 14.
Carbohydrate C-nitroolefins and preparation. J. C. Sowden. 2,530,342, Nov. 14.
Carbon black, Manufacture of. G. L. Heller. 2,529,873, Nov. 14.
Carburetor accelerating pump. O. Henning. 2,529,655, Nov. 14.
Carburetor, Floatless. A. C. Russell. 2,529,665, Nov. 14.
Carburetor valve. F. J. Raybould. 2,529,572, Nov. 14.
Card file, Folding. R. D. Miller. 2,529,702, Nov. 14.
Card holder. D. G. Gahris. 2,530,296, Nov. 14.
Carotene derivative and preparing the same. D. Melnick. 2,529,659, Nov. 14.
Carrier: *See*—
Display carrier.
Carton, Bottle. G. C. Currie. 2,529,725, Nov. 14.
Cartridge, Power gas generating. E. Whitworth and T. Thomson. 2,529,791, Nov. 14.
Case: *See*—
Fanfold pass case.
Case for motor units. I. Jepson. 2,530,302, Nov. 14.
Case with ejector and agitator, Cigarette. H. Maschek. 2,529,776, Nov. 14.
Caster for furniture rails, Pivot retractable. M. Simonowitz. 2,529,789, Nov. 14.
Caster with angular vibration damper. G. Hallewell. 2,529,769, Nov. 14.
Casting universal joints. J. Barber. 2,529,586, Nov. 14.
Catalytic plasticizers for natural and synthetic rubber. E. O. Hook. 2,530,355, Nov. 14.
Cathode-ray tube image control. J. Weingarten. 2,530,275, Nov. 14.
Centrifugal clutch. H. T. Jensen and F. E. Hiller. 2,529,610, Nov. 14.
Centrifugal cyclone separator. G. D. Arnold. 2,530,112, Nov. 14.
Centrifugally operated machine. H. A. A. Exner. 2,529,765, Nov. 14.
Chain construction. S. A. Holmes. 2,530,014, Nov. 14.
Chair: *See*—
Adjustable back reclining chair.
Rocking chair.
Folding chair.
Charger for automatic guns. E. W. Stacey and A. D. Willhauck. 2,529,822, Nov. 14.
Chloroalkyl alkyl sulfites as new chemicals and insecticides. W. D. Harris, H. D. Tate, and J. W. Zukel. 2,529,493, Nov. 14.
Chloroalkyl aryloxyalkyl sulfites as new chemicals and insecticides. W. D. Harris, H. D. Tate, and J. W. Zukel. 2,529,494, Nov. 14.
Chlorodiazines and preparation thereof, Bis-substituted. R. P. Germann. 2,529,840, Nov. 14.
Chuck. E. J. Wells. 2,530,318, Nov. 14.
Chuck operating mechanism. G. A. Highberg. 2,529,772, Nov. 14.
Churn. A. W. Holstein and D. F. McCarron. 2,529,691, Nov. 14.
Circuit: *See*—
Dual electric motor series parallel starting circuit.
Transponder tester circuit.
Tube failure detection circuit.
Sensitive flip-flop circuit.
Television receiver antenna input circuit.
Ultra high frequency resonant circuit.
Circuit breaker. W. T. Allen. 2,529,754, Nov. 14.
Circuit breaker, Electric. A. Pipponzi. 2,529,662, Nov. 14.
Circuit device utilizing germanium, Nonlinear. J. R. Woodyard. 2,530,110, Nov. 14.
Circuit for frequency control. E. H. Hugenholtz and E. Scholten. 2,530,165, Nov. 14.
Circuit for identifying the trunk connected to an operator's position. J. H. Voss. 2,530,103, Nov. 14.
Circuits with negative feedback, Low-frequency amplifying. C. J. van Loon and H. A. Broos. 2,530,101, Nov. 14.
Circular annealing inner cover. M. L. Jacob. 2,529,609, Nov. 14.
Clamp: *See*—
Cam acuated clamp.
Electrical tap clamp.
Clamp device for rubbing machines. J. B. Hoy. 2,530,301, Nov. 14.
Clamp for submergible electric cables, Swivel. L. Rosen. 2,530,179, Nov. 14.
Clamp having removable jaws, Model maker's. G. B. Lear. 2,530,203, Nov. 14.
Cleaner: *See*—
Vacuum cleaner.
Cleaner for boilers, Fluid jet. C. G. Marks. 2,530,018, Nov. 14.
Cleaning cement surfaces preparatory to painting. I. A. Halpern. 2,529,549, Nov. 14.
Cleaning device for submersible burner. N. Swindin. 2,530,270, Nov. 14.
Cleaning machine for dry and wet cleaning of garments and the like. W. F. Glass. 2,529,802, Nov. 14.
Cleaning of metal strip, Method and apparatus for continuous. A. H. Brisse. 2,529,762, Nov. 14.
Cleansing of polymerization reactors. J. H. Bannon. 2,530,144, Nov. 14.
Clock, Master-control. G. T. Fredstrom. 2,529,869, Nov. 14.
Closure for collapsible tubes. H. R. Katzmann. 2,529,554, Nov. 14.
Closure for containers, Expansible. R. C. Webber. 2,529,644, Nov. 14.
Closure for receptacles. A. E. Lamarthe. 2,529,878, Nov. 14.
Clutch: *See*—
Centrifugal clutch.
Magnetic clutch.
Clutch for motor bicycles, Automatic. G. J. Cunningham. 2,529,919, Nov. 14.
Clutch mechanism, Positive. A. B. Gilbert. 2,529,492, Nov. 14.
Cloth cutter. R. B. Taylor, Sr., and R. Whewell, Jr. 2,530,134, Nov. 14.
Clothes hanger. G. Roman. 2,530,207, Nov. 14.
Clothesline structure. E. A. Bumbera and C. S. Herr, Jr. 2,530,324, Nov. 14.
Clothespin. A. E. Wiegart. 2,530,277, Nov. 14.
Clutch-head torque indicating wrench. R. A. Johnson. 2,529,947, Nov. 14.
Coagulation of nonelastic polymers. E. K. Morris. 2,530,362, Nov. 14.
Coating compositions, Conductive. L. A. Bain, Jr. 2,530,217, Nov. 14.
Cold waving process. W. B. Semco. 2,529,886, Nov. 14.
Collapsible container. V. H. Hasselquist. 2,529,872, Nov. 14.
Collection of artificial yarn on ring spindles. S. W. Barker. 2,530,146, Nov. 14.
Collet, Hairspring. F. Marti. 2,529,807, Nov. 14.
Color cinematography. W. Millais. 2,530,023, Nov. 14.
Color prints from color transparencies, Making. L. W. Smith. 2,529,975, Nov. 14.
Color process involving change in isoelectric point of gelatin. D. Dean and R. C. Houck. 2,529,922, Nov. 14.
Color television. T. W. Chew. 2,529,485, Nov. 14.
Combination chain saw servicing tool. J. Wolf. 2,529,646, Nov. 14.

Combined ignition and starter switch. P. H. Childress. 2,529,916, Nov. 14.
Combined pen and pencil holder. J. J. Kennedy. 2,529,657, Nov. 14.
Combined throttle lever and rocket firing means for acceleration or deceleration of aircraft. G. C. MacDonald. 2,529,508, Nov. 14.
Combustion chamber with side air entrance and hollow ignition cone. M. A. Mayers. 2,530,019, Nov. 14.
Commutator machine, Alternating current. L. C. Weathers, 2,529,525–6, Nov. 14.
Compass, Magnetic. L. G. Dufilho. 2,529,764, Nov. 14.
Computer, Rotary. J. Kreitner. 2,530,304, Nov. 14.
Condensation products of urea, monoalkyl urea, formaldehyde, and monohydric aliphatic alcohol. J. F. Olin and P. D. Morton. 2,529,784, Nov. 14.
Connector: *See*—
Multicontact connector.
Connector for the back rest of chairs, Yieldable. M. Fox. 2,529,683, Nov. 14.
Construction of cartons. L. W. Brulin. 2,529,675, Nov. 14.
Contact for calipers, Auxiliary. J. F. Gallup, Sr. 2,529,931, Nov. 14.
Contact mass level control. E. R. Kehrer. 2,529,843, Nov. 14.
Contact tower for conversion under pressure of carbon monoxide and the like applications. O. Pintiaux. 2,530,314, Nov. 14.
Container: *See*—
Collapsible container.
Container and mold, Suppository. A. A. J. Kubik. 2,530,127, Nov. 14.
Container filling machine. A. H. Stebbins. 2,530,211, Nov. 14.
Container forming machine. S. R. Howard. 2,529,732, Nov. 14.
Container insert, Ice cream. L. C. Rowe. 2,529,816, Nov. 14.
Container with valve controlled opening, Fluid. A. Smye. 2,530,092, Nov. 14.
Control apparatus for radio-frequency heating. B. A. Larys. 2,529,560, Nov. 14.
Control for steam boilers or tanks, Automatic. C. L. Oliver. 2,530,073, Nov. 14.
Control mechanism for epicyclic gearboxes. G. P. Roberts. 2,529,741, Nov. 14.
Control system with remote set point adjustment and with remote indication. G. E. Howard. 2,529,875, Nov. 14.
Controlling flow of subdivided solid particles. G. F. Adams. 2,529,583, Nov. 14.
Conveyer assembly, Pusher dog. G. H. Robinson. 2,529,663, Nov. 14.
Conveyer drive. W. H. McInnis. 2,529,777, Nov. 14.
Conveying and distributing apparatus. J. T. Parisi. 2,530,074, Nov. 14.
Cookstove. E. Esson. 2,530,159, Nov. 14.
Cooler having adjustable drinking water temperature and water bleed, Water. S. O. Morrison. 2,529,781, Nov. 14.
Cooling device for the casings of thermic motors, including gas turbines. R. J. Imbert. 2,529,946, Nov. 14.
Copolymers of acrylonitrile and N-allyl and N-2-methallyl cyanides. J. R. Caldwell. 2,529,911, Nov. 14.
Copolymers of vinyl benzoate and polyunsaturated carbonate esters. E. J. Carlson. 2,529,866, Nov. 14.
Copolymers of vinyl esters of aliphatic acids with dialkenylcarbonate esters of alkylene bis-phenols. E. J. Carlson. 2,529,867, Nov. 14.
Copper complex compounds of substantive azo dyestuffs and making same. W. Wehrli and E. Iselin. 2,529,527, Nov. 14.
Copying apparatus, Facsimile. R. G. Thompson. 2,529,978, Nov. 14.
Corn and callous remover. G. Appel. 2,530,216, Nov. 14.
Corset or girdle, Orthopedic. A. Silvain. 2,530,132, Nov. 14.
Counter partition holder. C. R. Walker. 2,529,826, Nov. 14.
Counting device, Tablet. M. R. Fields. 2,530,009, Nov. 14.
Coupling: *See*—
High-pressure coupling.
Impulse coupling.
Hitch coupling.
Cover: *See*—
Circular annealing inner cover.
Cover for dust mops, Dispensing. W. G. Leith. 2,530,250, Nov. 14.
Covering material, Moisture resistant. H. W. Crockett. 2,529,799, Nov. 14.
Cracking apparatus. T. B. Kimball and R. E. Howe. 2,529,503, Nov. 14.
Cracking of hydrocarbons, Thermal and catalytic. P. M. Waddill. 2,529,790, Nov. 14.
Crate, Collapsible poultry. L. L. Albert. 2,529,893, Nov. 14.
Crate for animals, Shipping. L. C. Miller. 2,530,170, Nov. 14.
Crib and mechanism for oscillating the same. S. N. Baruch. 2,529,721, Nov. 14.
Cultivator and weeder, Hand. P. De Conti. 2,529,542, Nov. 14.
Cup, Nested. R. J. Kieckhefer. 2,530,124, Nov. 14.
Curler, Hair. L. J. and M. R. Hall. 2,530,197, Nov. 14.
Cushioning and centering device for railway car couplers. K. T. Nystrom. 2,529,626, Nov. 14.
Cutter: *See*—
Cloth cutter.
Glass cutter.
Cutter. G. B. and B. E. Jones. 2,529,949, Nov. 14.
Cutting and punching machine, Electrical. G. V. Anderson. 2,529,895, Nov. 14.
Cyan color formers capable of yielding fine grain images. W. C. Craig. 2,530,349, Nov. 14.
Cyclic 1,2-ketols having 10 to 18 carbon atoms in ring, Preparation of. M. Stoll. 2,529,825, Nov. 14.
Cyclic sulfone amines. R. C. Morris and A. V. Snider. 2,530,070, Nov. 14.
Cycloalkenyl halogenated hydroxycinnamic acids. E. Schwenk and D. Papa. 2,529,518, Nov. 14.
Cylinder door band lock. F. Vetorino. 2,529,643, Nov. 14.
DDT compositions containing an absorbent inert, Fused. A. L. Flenner. 2,529,681, Nov. 14.
Darning device. M. D. Baumgart. 2,530,040, Nov. 14.
Debooster. C. Hollerith. 2,529,731, Nov. 14.
Deceleration brake control. A. R. Williams. 2,529,985, Nov. 14.
Defrosting system in refrigerated locker. R. E. Lehmann. 2,529,734, Nov. 14.
Degumming and bleaching ramie. S. J. F. Jensen. 2,530,244, Nov. 14.
Delayed action coagulant. D. S. Sears. 2,529,885, Nov. 14.
Dental hand piece. M. Staunt. 2,529,824, Nov. 14.
Derivatives of aliphatic acids, lactones and making same, Halogenated. E. C. Britton, J. C. Vander Weele, and J. E. Livak. 2,530,348, Nov. 14.
Desk or pocket bevel. W. Thomas. 2,529,640, Nov. 14.
Desk pad structure. A. Cohn. 2,530,115, Nov. 14.
Device for cleaning radiators. J. L. Bacus. 2,529,756, Nov. 14.
Device for determining relative movements of parts in wells. P. W. Martin. 2,530,309, Nov. 14.
Device for measuring and comparing functions. A. Chevallier. 2,529,723, Nov. 14.
Device for pressure and heat sealing of plastics. S. E. Bender. 2,530,221, Nov. 14.
Device for removing an insulating coating from coated wire. J. F. Bartusek. 2,530,219, Nov. 14.
Device for scribing fluid adhesives. A. L. Henson. 2,530,199, Nov. 14.
Diaper. W. C. Burke. 2,530,189, Nov. 14.
Diaper. L. A. Chambers. 2,529,999, Nov. 14.
Diaper. J. H. Crossingham. 2,530,046, Nov. 14.
Diaphragm unit and fabricating same. P. H. Bilhuber. 2,529,862, Nov. 14.
Dielectric materials and producing them, High. C. Wentworth. 2,529,719, Nov. 14.
Dipping machine. F. E. Coppock. 2,529,488, Nov. 14.
Dipping machine, Candle. C. T. Banks. 2,529,829, Nov. 14.
Disappearing refuse holder. D. Marini. 2,530,336, Nov. 14.
Discharge device, Electron. H. L. Steele, Jr. 2,530,185, Nov. 14.
Discharge tube. J. L. H. Jonker and E. G. Dorgelo. 2,530,167, Nov. 14.
Disk for watthour meters and the like, Induction. J. Prince and M. Whitehead. 2,529,571, Nov. 14.
Dispenser: *See*—
Adhesive tape dispenser.
Stick dispenser.
Candle residue dispenser.
Dispensing apparatus. W. A. Black, 2,529,672, Nov. 14.
Dispensing apparatus. B. G. Copping. 2,530,045, Nov. 14.
Dispensing apparatus, Liquid. K. C. Bugg. 2,530,113, Nov. 14.
Dispensing attachment for liquid container neck, having a reciprocable measuring trap combined with a dispensing valve. E. Gronemeyer and S. Cherba. 2,530,012, Nov. 14.
Dispensing closure. T. J. D. Russell. 2,529,817, Nov. 14.
Display carrier. V. F. Detweiler. 2,530,231, Nov. 14.
Doll. W. Schler and D. L. Doggett. 2,530,032, Nov. 14.
Domestic appliance. R. R. Candor. 2,529,913, Nov. 14.
Door: *See*—
Balanced door.
Door handle. I. S. Keeler and G. V. Jakeway. 2,530,303, Nov. 14.
Door operator, Casing. N. P. Bach. 2,529,478, Nov. 14.
Door seal. V. A. Finley. 2,530,160, Nov. 14.
Doorstop and catch assembly. N. H. Johnson and H. A. Andrews. 2,530,365, Nov. 14.
Drawing plastic sheet material, Method and apparatus for. G. W. Borkland. 2,530,043, Nov. 14.
Drawing roll. F. H. Stearns. 2,530,004, Nov. 14.
Dressing fish. P. Danielsson. 2,529,920, Nov. 14.
Drier: *See*—
Grain drier.
Drill. C. A. Signell. 2,529,788, Nov. 14.
Drill chuck key holder. L. F. Neck. 2,529,567, Nov. 14.
Driving and control mechanism for vehicles. Torque dividing. G. W. Curtis. 2,529,489, Nov. 14.
Drying ammunition primers. F. Olsen. 2,529,704, Nov. 14.
Drying gases. J. H. McAteer, C. E. Morrell, J. K. Small, and H. L. Yowell. 2,530,129, Nov. 14.
Drying house. R. E. Mayo. 2,529,621, Nov. 14.
Dual electric motor series parallel starting circuit. J. W. Woolf. 2,530,279, Nov. 14.
Dumping body. A. T. Klingebiel. 2,529,558, Nov. 14.
Dust eliminator for ash cans. C. V. Rentz. 2,529,965, Nov. 14.

Dyestuffs, Vat. W. Fioroni. 2,530,010, Nov. 14.
Dynamometer, Eddy current. E. D. Smith. 2,529,974, Nov. 14.
Earpiece for receivers, Adjustable. D. W. Martin. 2,529,562, Nov. 14.
Echo sounder and other device for distance measuring in water. J. Watt. 2,530,035, Nov. 14.
Electric control device. G. C. Crowley. 2,530,003, Nov. 14.
Electric fluid heater. E. L. Grupp. 2,529,688, Nov. 14.
Electric iron curtain ruffler, Hand. S. F. Grierson. 2,530,196, Nov. 14.
Electric lamp. H. R. Levy. 2,530,204, Nov. 14.
Electric proportioning controller with liquid-operated follow-up. D. P. Eckman. 2,530,157, Nov. 14.
Electric switch. W. Schmid. 2,529,970, Nov. 14.
Electrical control apparatus. I. H. Sudman. 2,530,096, Nov. 14.
Electrical control system and apparatus. E. T. Davis. 2,530,326, Nov. 14.
Electrical protective device. A. J. Cihlar and W. E. Moore. 2,530,228, Nov. 14.
Electrical switch. C. A. Woodward. 2,530,364, Nov. 14.
Electrical tap clamp. F. J. Hendley. 2,530,299, Nov. 14.
Electrode structure for electrical precipitators, Collecting. R. L. Chamberlin. 2,529,594, Nov. 14.
Electrolytically producing zinc of high purity. S. P. Lowe, G. W. Long, K. W. Downes, and G. H. Kent. 2,529,700, Nov. 14.
Electron discharge device. A. Sommer. 2,529,888, Nov. 14.
Electron discharge device of cavity resonator type with reverse flow of electrons. C. C. Wang. 2,529,668, Nov. 14.
Electron discharge device, Tunable. E. N. Kather. 2,529,950, Nov. 14.
Electronic control apparatus. P. J. Cade. 2,529,796, Nov. 14.
Electronic regulator. E. O. Lawrence, V. B. Walthman, and F. H. Schmidt. 2,530,169, Nov. 14.
Electrostatic machine. N. Felici. 2,530,193, Nov. 14.
Elevator platform for vehicles, Loading and unloading. H. J. Satsky. 2,530,341, Nov. 14.
Emptying butyl rubber reactor. R. W. Benoliel and B. W. Flanagan. 2,530,145, Nov. 14.
Endgate for trucks, Unloading. V. C. Hueneman. 2,529,608, Nov. 14.
Engine: *See*—
Air-cooled supercharged Rotary internal-combustion engine. tion engine.
Engine control mechanism, Marine. J. F. Morse. 2,530,205, Nov. 14.
Engine safety switch. L. W. Maddox. 2,529,775, Nov. 14.
Enzymes in submerged cultures of bacteria, Production of. C. V. Smythe, B. B. Drake, and C. E. Neubeck. 2,530,210, Nov. 14.
Epicyclic drive. L. H. Browne. 2,529,998–7, Nov. 14.
Equalizer for supporting magnetic recording and erasing heads. C. C. Pond. 2,530,029, Nov. 14.
Excavating apparatus, Dragline. G. E. Bryant. 2,530,150, Nov. 14.
Exciter control. L. E. Gartner and J. W. Allen. 2,529,766, Nov. 14.
Explosion-proof pilot light. W. C. Pearson. 2,529,706, Nov. 14.
Extinguisher, Cigarette. J. S. Hart, Jr., 2,529,871, Nov. 14.
Extrusion apparatus. O. G. Nelson. 2,530,262, Nov. 14.
Fabric having selected horizontal strands electrically insulated, Wire fence. J. C. Koonz. 2,530,247, Nov. 14.
Fanfold pass case. D. J. Nash. 2,530,071, Nov. 14.
Fastener: *See*—
paper file fastener.
Fastening device. V. F. Zahodiakin. 2,529,582, Nov. 14.
Faucet with nonextruding seal. T. R. Smith. 2,530,090, Nov. 14.
Feed device for rotary beater mills with means for preventing blow-back of material. C. D. Parten. 2,530,313, Nov. 14.
Feed-through switch. E. H. Lockwood. 2,529,845, Nov. 14.
Feeder gaging means for fish dressing machines. A. L. Erickson. 2,529,800, Nov. 14.
Fiber spinning apparatus and method. F. A. Bluhm, D. W. Hayes, and Albert H. Zeigler. 2,529,674, Nov. 14.
Filling and sealing machine, Combined. F. J. Conzoll. 2,530,230, Nov. 14.
Filter: *See*—
Oil well filter.
Filter. E. G. Brown. 2,530,283, Nov. 14.
Filter apparatus. E. T. Julius. 2,529,698, Nov. 14.
Filtering apparatus. F. B. Harvuot. 2,530,198, Nov. 14.
Firearm. R. A. King. 2,529,733, Nov. 14.
Fire extinguisher. M. H. Cowan. 2,530,001, Nov. 14.
Fireproofing and creaseproofing of cellulose and protein textiles. T. H. Morton and F. Ward. 2,530,261, Nov. 14.
Fish lure. A. Fey. 2,530,008, Nov. 14.
Fish lure. R. H. Vaughn and C. M. Loflen. 2,529,642, Nov. 14.
Fishing boat hold and cold storage construction. R. A. Davis. 2,529,651, Nov. 14.
Fishing hook snapper. S. Euzent. 2,530,007, Nov. 14.
Fishing line float. C. D. Vanderpool, Jr. 2,530,100, Nov. 14.
Fixture, Vented explosion-proof lighting. N. A. Tornblom. 2,530,135, Nov. 14.
Flag, Educational. M. S. and M. P. Pollock. 2,529,628, Nov. 14.
Flashlight and table lamp, Combination. G. H. Moore. 2,530,069, Nov. 14.
Flexible corner. G. D. Waterman. 2,529,855, Nov. 14.
Flint tensioning means for lighters. R. Wiessner. 2,529,857, Nov. 14.
Float. R. A. Phillips. 2,529,961, Nov. 14.
Floor furnace. W. C. Coleman. 2,530,151, Nov. 14.
Fluid evaporating device. J. Bjorksten. 2,529,536, Nov. 14.
Fluid pressure unit. D. H. McGogy. 2,530,337, Nov. 14.
Fluid rate of flow indicator. J. C. Brewer. 2,529,481, Nov. 14.
Fluorescent lamp holder. S. Levenson. 2,530,017, Nov. 14.
Fluxmeter. W. R. Rathkamp. 2,530,178, Nov. 14.
Folding chair. J. M. Dorton. 2,529,726, Nov. 14.
Folding leg table. W. C. Higley. 2,529,940, Nov. 14.
Folding seat. S. J. Gillis and L. W. Simons. 2,530,239, Nov. 14.
Foods. L. V. Strasburger. 2,530,212, Nov. 14.
Foot control for artificial legs. J. G. Catranis. 2,530,286, Nov. 14.
Form for concrete construction. W. E. Borton. 2,529,648, Nov. 14.
Form for making inflatable game ball carcasses. W. J. and W. A. Sonnett. 2,529,637, Nov. 14.
Formaldehyde purification and polymerization with selective condensation of water vapor. V. F. Michael. 2,529,622, Nov. 14.
Forming endless toroidal wire spring belts. R. Goodwin. 2,530,163, Nov. 14.
Forming liquid-carrying containers, Process and apparatus for. E. H. Land. 2,530,306, Nov. 14.
Foundation wall form, Portable. R. R. von Bampus. 2,530,102, Nov. 14.
4-quinolyl amino compounds and their preparation. C. E. Kwartler and P. Lucas. 2,530,125, Nov. 14.
Frame structure joint. K. V. R. Berggren. 2,529,903, Nov. 14.
Frequency control of high-frequency oscillations. L. E. Thompson. 2,529,579, Nov. 14.
Frequency divider. J. F. Fisher. 2,529,547, Nov. 14.
Frog gig. J. F. Hearndon. 2,529,938, Nov. 14.
Fuel feed control for oil burners. H. B. Holthouse. 2,529,942, Nov. 14.
Fuel flow control for internal-combustion engines. P. W. Bedale and J. O. P. Hughes. 2,529,900, Nov. 14.
Fuel having improved knock qualities. E. C. Hughes and M. H. Campbell. 2,529,496, Nov. 14.
Fuel injector. W. H. Mashinter. 2,530,128, Nov. 14.
Fuel pump mounting. F. W. Kateley. 2,530,357, Nov. 14.
Fur stretcher. C. H. Olds. 2,529,783, Nov. 14.
Furnace: *See*—
Floor furnace. Metallurgical furnace.
Furnace fuel feeder control system. P. S. Dickey. 2,530,117, Nov. 14.
Furnace roof, Suspended. R. P. Heuer. 2,529,607, Nov. 14.
Fuse, Aircraft bomb. J. C. Byrnes, Jr. 2,529,483, Nov. 14.
Fuse or heat exploded link. R. O. Ferguson. 2,530,051, Nov. 14.
Game apparatus, Chance. O. A. Roth. 2,530,082, Nov. 14.
Game, Baseball. W. F. Wolfe. 2,530,187, Nov. 14.
Garment finisher, Superheated steam. E. C. Maurer. 2,530,067, Nov. 14.
Garment hanger. R. L. Robertson. 2,529,742, Nov. 14.
Gas safety valve. A. R. Hanson. 2,529,770, Nov. 14.
Gauge: *See*—
Pressure gauge. Tire pressure gauge.
Rafter gauge.
Gauge driving device for sheet feeding and gauging mechanisms. W. Pechy. 2,529,513, Nov. 14.
Generator: *See*—
Thermoelectric generator.
Ultra high frequency generator.
Generator for electrical oscillations. L. Jofeh. 2,529,876, Nov. 14.
Geophysical safety catch. L. R. and L. F. Deputy. 2,529,763, Nov. 14.
Glass cutter. H. Martin. 2,529,735, Nov. 14.
Golf practice tee. G. W. Herman. 2,529,771, Nov. 14.
Golf tee. C. W. Smith. 2,530,088, Nov. 14.
Grain drier. S. J. Malecek. 2,529,953, Nov. 14.
Grill. U. K. Johannsen. 2,530,166, Nov. 14.
Grub scrubber. W. Abildgaard and C. C. Herbert. 2,529,531, Nov. 14.
Gun, Spray. F. Nieburg. 2,530,206, Nov. 14.
Hairbrush with slidable bristle cleaning means attached thereto. H. W. Fisk. 2,529,927, Nov. 14.
Halogenohydrocarbon derivatives of silanes. C. F. Kohl, Jr. 2,530,202, Nov. 14.
Hand and power drive. A. D. Meyer and C. F. Carlsen. 2,529,660, Nov. 14.
Handbag, Bathtub. E. V. White. 2,529,983, Nov. 14.
Handle: *See*—
Door handle. Tool handle.
Handle and can punch, Combination detachable. E. M. Oliver and B. F. Malherbe. 2,529,737, Nov. 14.

Handle construction, Knife. R. J. and J. R. Slavsky. 2,529,618, Nov. 14.
Handle for floor shears, Upstanding. A. Zidar. 2,530,215, Nov. 14.
Handles for carrying bags and the like, Manufacturing. O. M. Strandberg. 2,529,976, Nov. 14.
Hanger: *See*—
Clothes hanger. Garment hanger.
Harvester, Celery. W. C. Silva. 2,529,515, Nov. 14.
Heat exchanger. E. G. Schelbel. 2,529,516, Nov. 14.
Heat-treating metal work of elongated extent. F. O. Hess. 2,529,689, Nov. 14.
Heater: *See*—
Electric fluid heater.
Heater for internal-combustion engines and the like, Water. B. H. Pierce. 2,529,707, Nov. 14.
Heater system and operation, Pebble. L. J. Weber. 2,530,274, Nov. 14.
Heater with radiant, Hot-air gas. G. W. Zimbelman. 2,529,828, Nov. 14.
Heating and antifreezing apparatus for aircraft. G. Chausson. 2,529,915, Nov. 14.
Heating apparatus. F. O. Hess. 2,529,690, Nov. 14.
Heating apparatus, Direct fired hot-air. R. M. Rush. 2,529,574, Nov. 14.
Heating apparatus, Warm air and hot-water. C. A. P. Thomas. 2,529,977, Nov. 14.
Heating element, Electrical. A. P. Challenner. 2,529,914, Nov. 14.
Heating means and method, Oil column. C. S. Ackley. 2,530,280, Nov. 14.
Heddle. J. J. Kaufmann. 2,529,555, Nov. 14.
Helicopter rotor control mechanism. I. I. Sikorsky, W. E. Hunt, and E. F. Katzenberger. 2,529,635, Nov. 14.
Heterodyne frequency modulator with distortion compensation. S. W. Moulton. 2,529,736, Nov. 14.
High-pressure coupling. K. M. Snider. 2,529,821, Nov. 14.
High vacuums. M. J. Hunter. 2,530,356, Nov. 14.
Hinge mechanism, Adjustable. H. E. Hubbs. 2,530,331, Nov. 14.
Hitch coupling. J. S. Connors. 2,529,868, Nov. 14.
Hoist and dock, Combined. A. H. Jones. 2,529,948, Nov. 14.
Hoist, Cargo. W. A. Bortner, W. W. Collins, and E. J. Tousignan. 2,529,908, Nov. 14.
Hoist chain equipment. I. L. Young. 2,529,858, Nov. 14.
Hoist control, Remote. W. Harnischfeger and G. Koehler. 2,529,804, Nov. 14.
Hoisting apparatus and automatic cover structure therefor, Combined. D. A. Wallace. 2,530,137, Nov. 14.
Holder: *See*—
Card holder. Fluorescent lamp holder.
Combined pen and pencil holder. Hood to gut holder.
Counter partition holder. Lipstick holder.
Disappearing refuse holder. Sadiron holder.
Drill chuck key holder. Sash holder.
Wrench holder.
Holder and printer for sales slips. O. E. Ekblom. 2,530,049, Nov. 14.
Holder for attachment to shelves, Rotary package. G. D. Wiepert. 2,529,581, Nov. 14.
Holder for fishing poles and rods. L. C. Phalen. 2,530,265, Nov. 14.
Holder for trimming tools. G. Prodromos. 2,529,963, Nov. 14.
Honda breakaway. F. S. Rudolph. 2,530,031, Nov. 14.
Hook: *See*—
Ambulance cot hook.
Hook to gut holder. A. J. H. Crook. 2,530,292, Nov. 14.
Humidor. S. M. Sager. 2,530,340, Nov. 14.
Husking and cleaning machine. C. H. Marnach and N. G. Schatz. 2,529,620, Nov. 14.
Hydrocarbon drying oil, Preparation of a. H. S. Bloch. 2,529,590, Nov. 14.
Hydrocarbon synthesis. C. H. Holder. 2,530,243, Nov. 14.
Hydrocarbon synthesis with spherical catalyst particles. R. N. Watts. 2,530,344, Nov. 14.
Hydrogen cyanide, Manufacture of. L. Fallows and E. V. Mellers. 2,529,546, Nov. 14.
Hydrolysis of steroid semicarbazones. R. Kapp and R. Griffith. 2,530,334, Nov. 14.
Illuminating device for uniformly and diffusely illuminating a background. R. F. E. Stegeman. 2,530,133, Nov. 14.
Illuminating flare. C. D., A. J. and C. Schermuly 2,530,084, Nov. 14.
Impeller for dishwashing machines. H. G. Davis. 2,529,650, Nov. 14.
Impellers blower, Helical interengaging. S. Oldberg. 2,530,173, Nov. 14.
Impulse coupling. E. A. Vogel and H. R. Lindbeck. 2,529,891, Nov. 14.
Index tray and bottom stop therefor, Card. C. F. Wolters. 2,529,987, Nov. 14.
Index, Visible. W. A. Downs. 2,529,926, Nov. 14.
Indicating ionization pressure. M. L. Yeater. 2,530,111, Nov. 14.
Indicator: *See*—
Fluid rate of flow indicator. Radio object location indicator.
Plan position indicator.
Indicator and the like, Electronic distance. C. E. Atkins. 2,530,141, Nov. 14.
Indicator mechanism. A. P. Brietzke. 2,529,832–3, Nov. 14.
Instrument, Musical. M. C. Alexander. 2,529,584, Nov. 14.
Instrument, Musical. H. Horne. 2,529,693, Nov. 14.
Instrument, Musical. L. Luberoff. 2,530,252, Nov. 14.
Instrument, Strain measuring. L. D. Statham. 2,530,184, Nov. 14.
Insulating composition, Glass bonded. A. J. Monack. 2,529,566, Nov. 14.
Intercommunicating apparatus. R. H. Campbell. 2,529,912, Nov. 14.
Intervalometer. L. W. Gackl. 2,529,728, Nov. 14.
Ion exchange material and making the same. S. H. Frohmader. 2,529,602, Nov. 14.
Iron with wetting strip, Steam. E. G. Dahl. 2,530,116, Nov. 14.
Jack. P. E. Wallace. 2,530,138, Nov. 14.
Joint: *See*—
Frame structure joint.
Joint. S. P. Hull. 2,529,697, Nov. 14.
Joint for use between the parts of an electric cable system, Fluid-tight. E. L. Davey and F. R. Credland. 2,530,153, Nov. 14.
Key identification means. W. F. Rothe. 2,529,815, Nov. 14.
Kit removably insertable into a purse or the like, Carrying. S. T. Conwiser. 2,529,724, Nov. 14.
Knife, Pocket. E. C. Erickson. 2,530,236, Nov. 14.
Knitted structure and producing said structure. W. P. Crawley. 2,529,541, Nov. 14.
Laminating metal foil. R. S. Reynolds. 2,529,884, Nov. 14.
Lamp: *See*—
Electric lamp.
Lantern, Electric. L. Broshears. 2,529,910, Nov. 14.
Latch. L. Toth. 2,529,748, Nov. 14.
Latch arm for door fasteners, Detachable. S. B. Haseltine. 2,529,606, Nov. 14.
Lawn mower, Rotating disk power. A. W. Golasky. 2,529,870, Nov. 14.
Length-marking apparatus. J. C. Carlin. 2,529,593, Nov. 14.
Leveling labels transversely for labeling. F. Henares and C. Gallegos. 2,529,730, Nov. 14.
Lever carried detent, Rack engaging. E. G. F. Robertshaw. 2,530,030, Nov. 14.
Lever, Flush. F. M. Keller. 2,529,844, Nov. 14.
Lid catcher. C. McLellan. 2,529,779, Nov. 14.
Lift plug valve. W. Ebert. 2,529,544, Nov. 14.
Lift trip for two-way plows, Automatic power. W. F. Mellen. 2,529,809, Nov. 14.
Light: *See*—
Adjustable sewing machine Explosion-proof pilot light. light.
Light baffle and support therefor. E. A. Price. 2,530,361, Nov. 14.
Lighter, Finger ring. E. S. Conway and V. Amendolara. 2,530,291, Nov. 14.
Lighter, Pocket. C. A. Fortin. 2,530,328, Nov. 14.
Lighting control. A. Arvidsson. 2,529,989, Nov. 14.
Limit switch. A. A. Dicke. 2,529,652, Nov. 14.
Line anchoring device. N. F. Garwood. 2,530,121, Nov. 14.
Liner materials and making the same, Corrosion resistant. A. Abraham, Jr. 2,530,320, Nov. 14.
Lipstick holder. L. Blake. 2,529,673, Nov. 14.
Liquid regulating assembly in a spray nozzle system. A. W. Gustafson. 2,529,605, Nov. 14.
Liquid separator. A. Gordon. 2,530,054, Nov. 14.
Loading and transporting logs and other materials, Method and apparatus for. C. E. Whittle. 2,529,752, Nov. 14.
Locating neutral-point brush settings. P. D. Zemansky. 2,529,529, Nov. 14.
Lock: *See*—
Cylinder door band lock. Sliding door lock.
Lock nut and washer, Combination. L. Tarwater. 2,529,854, Nov. 14.
Locking means for pins and the like. E. Ruch. 2,530,083, Nov. 14.
Low reflectance skeletonized surface on glass, Production of. F. H. Nicoll and F. E. Williams. 2,529,703, Nov. 14.
Lower fifth wheel. W. C. Nabors. 2,530,311, Nov. 14.
Lubricating device. C. W. Ginter. 2,529,685, Nov. 14.
Machine for applying covering material to endless belts. R. R. Ambler and R. D. Weston. 2,529,859, Nov. 14.
Machine for applying pressure to shoe bottoms. F. E. Cole. 2,529,798, Nov. 14.
Machine for decrowning pineapples. E. R. Jagenburg. 2,530,201, Nov. 14.
Machine for peeling prepared fruits. E. R. Jagenburg. 2,530,063, Nov. 14.
Machine for washing clothes. W. H. Petersén. 2,530,028, Nov. 14.
Machine lathe. E. F. Hausam. 2,529,551, Nov. 14.
Magnetic clutch. R. C. Russell. 2,530,180, Nov. 14.
Maintaining accuracy of precision ammeters. R. M. Hanson. 2,529,729, Nov. 14.
Making a diver's combined hose and electrical communication line cable. R. L. Wallace, Jr. 2,530,105, Nov. 14.
Manual controlled device for automatic circuit recloser mechanisms. J. K. Harper. 2,530,298, Nov. 14.

Manufacturing thin wall tubing. Process of and apparatus for. J. Bailey and C. G. Reber. 2,529,897, Nov. 14.
Measuring and controlling apparatus. R. F. Wild. 2,530,109, Nov. 14.
Measuring electrical properties, Method and apparatus for. H. R. Larson. 2,530,248, Nov. 14.
Mechanism for artificial legs. H. Sartin. 2,529,968, Nov. 14.
Mechanism for setting the needles or indicating hands of hermetically sealed voltmeter or analogous instruments. H. I. Keroes. 2,529,557, Nov. 14.
Metallurgical furnace. F. C. Ramsing. 2,530,077–8, Nov. 14.
Meter for rotating shafts, Integrating load. A. V. Mershon. 2,530,022, Nov. 14.
Metering device for sewing machines, Oil. H. Ritter. 2,529,773, Nov. 14.
Metering device, Liquid. J. B. Hale. 2,529,937, Nov. 14.
Micrometer dust guard. J. O. Le Comte. 2,529,561, Nov. 14.
Microscope. B. G. Gallasch. 2,530,352, Nov. 14.
Mineral lubricating oil composition. F. M. Watkins. 2,529,523, Nov. 14.
Mineral oil composition. F. M. Watkins. 2,529,524, Nov. 14.
Mining machine lubrication. A. L. Lee. 2,530,249, Nov. 14.
Modification of drying oils. G. M. Williams. 2,529,528, Nov. 14.
Moistener and sealer, Envelope. P. Willis. 2,530,037, Nov. 14.
Molded surface ornamentation. N. Hyman. 2,529,945, Nov. 14.
Molding apparatus, Plastic. H. A. Kelly, Sr. 2,530,245, Nov. 14.
Molding device. H. H. Holly. 2,530,061, Nov. 14.
Molding device, Patty. H. H. Holly. 2,530,062, Nov. 14.
Molding objects of sponge rubber and the like. W. L. Cook. 2,530,289, Nov. 14.
Molds and processes and materials for producing the same, Metal-casting. M. C. Dailey and J. R. Parsons. 2,529,835, Nov. 14.
Monoazo compounds containing a 4-hydroxyquinolone–2 group. J. B. Dickey. 2,529,924, Nov. 14.
Motor control system. W. J. Field. 2,529,490, Nov. 14.
Motor starting system, Plural series. J. W. Woolf. 2,530,278, Nov. 14.
Motor tuning system for receiving systems. N. P. Case. 2,529,677, Nov. 14.
Motor vehicle body with independent wheel suspension. G. Chausson. 2,530,226, Nov. 14.
Mounting: *See*—
  Fuel pump mounting.
  Ophthalmic mounting.
  Self-aligning bearing mounting.
Mounting for flexible capsules for operating transmissions. T. Bowen. 2,529,909, Nov. 14.
Mounting for instrument pointers and pen arms. C. A. Blakeslee, A. J. Balanda, and E. F. Dyson. 2,529,907, Nov. 14.
Mounting means for oscillatory display devices. J. S. Yarrow. 2,529,720, Nov. 14.
Mounting of gas turbine engines in aircraft. F. W. W. Morley. 2,529,955, Nov. 14.
Mousetrap. A. Biery. 2,529,589, Nov. 14.
Mower attachment for motor vehicles. A. J. Kayser. 2,529,612, Nov. 14.
Mower with yieldingly retractable knives. R. R. Cauble. 2,529,797, Nov. 14.
Multiconnect connector. L. E. Hayslett. 2,530,354, Nov. 14.
Multiport valve. A. Kromhout. 2,529,505, Nov. 14.
N,N-dialkylacrylamides, Preparation of. J. G. Erickson. 2,529,858, Nov. 14.
N,N-dimethyl-N′-(2-pyridyl)-N′-(2-benzothenyl) ethylene diamine. G. J. Martin and S. Avakian. 2,530,358, Nov. 14.
N¹-p-chlorophenyl-N⁵-isopropyl biguanide, Production of. L. E. Bessot and P. Garet. 2,529,992, Nov. 14.
Navigation system, Aerial. G. A. Maney. 2,529,619, Nov. 14.
Nesting hand package, Double compartment. W. E. Denison. 2,529,837, Nov. 14.
Nutritional and conditioning composition for baked wheat flour products. J. J. Handler and D. B. Pratt, Jr. 2,530,056, Nov. 14.
Objective mount. F. E. Altman and J. A. Blash. 2,529,894, Nov. 14.
Oil alkyd resins and making same, Ester modified drying. J. B. Rust and W. B. Canfield. 2,530,316, Nov. 14.
Oil-alkyd resins and making them, Modified drying. J. B. Rust and W. B. Canfield. 2,530,315, Nov. 14.
Oil driven turbine motor vehicle wheel. A. Shepelrich. 2,529,787, Nov. 14.
Oil well filter. E. H. Breaux. 2,530,223, Nov. 14.
1-o-aminobenzoyl-2-β-hydroxyethylpiperidine. L. A. Walter. 2,529,982, Nov. 14.
Operating mechanism for plungers of caulking guns. W. P. Peterson. 2,530,359, Nov. 14.
Ophthalmic mounting. M. B. Levoy. 2,529,879, Nov. 14.
Orifice, Stretch tube. H. Miller. 2,529,563, Nov. 14.
Oven. P. B. Pursell. 2,530,177, Nov. 14.
Paper-cutting machine. I. L. Young. 2,530,319, Nov. 14.
Paper file fastener. F. L. Innacelli. 2,529,497, Nov. 14.
Parts storing cabinet. J. A. Belcher. 2,530,220, Nov. 14.
Pattern for foundry casting molds. D. Arnette. 2,529,647, Nov. 14.
Peanut protein, The manufacture of. J. C. Arthur, Jr. 2,529,477, Nov. 14.
Pen and sandbox, Combination play. K. I. Kaye. 2,529,951, Nov. 14.
Pentaenes, Manufacture of. O. Isler. 2,529,498, Nov. 14.
Petroleum hydrocarbon products, Compounded. L. A. Mikeska and A. R. Kittleson. 2,530,339, Nov. 14.
Photochemical preparation of γ benzene hexachloride. M. Gonze. 2,529,803, Nov. 14.
Piano construction for sound amplification. L. Luberoff. 2,530,251, Nov. 14.
Picker stick check, Hydraulic. G. H. Hufferd. 2,529,696, Nov. 14.
Picker stick linkage. G. H. Hufferd. 2,529,694, Nov. 14.
Picker stick slide linkage. G. H. Hufferd. 2,529,695, Nov. 14.
Picture frame containing bed light and indirect light units. G. Thurston. 2,529,713, Nov. 14.
Plaiter. H. H. Belcher. 2,529,991, Nov. 14.
Plan position indicator. M. A. Starr. 2,529,823, Nov. 14.
Plant duster. H. R. Ashcraft. 2,530,039, Nov. 14.
Plastic sheet, Reinforced. H. Warp. 2,530,106, Nov. 14.
Plunger mechanism, Solenoid. J. R. Almond and W. C. Bosworth. 2,529,533, Nov. 14.
Polymeric vinylidene chloride composition, Thermostable. C. B. Havens. 2,530,353, Nov. 14.
Polymerization process for unsaturates, Low-temperature. W. J. Sparks and J. D. Garber. 2,529,520, Nov. 14.
Power control. F. J. Wiegand and D. W. Meador. 2,530,139, Nov. 14.
Power follow-up system or remote control system. J. P. Watson. 2,529,669, Nov. 14.
Power mower. J. H. Bennett. 2,530,041, Nov. 14.
Power plant. J. E. Johansson. 2,529,773, Nov. 14.
Power transmission. E. F. Salsbury and F. W. Harris. 2,529,743, Nov. 14.
Power transmission for refrigerated motor vehicles. F. T. Harrington. 2,530,241, Nov. 14.
Power unit. J. L. Moody. 2,529,810, Nov. 14.
Prefabricated railway refrigerator car. G. P. Torburn. 2,529,641, Nov. 14.
Preparing intaglio printing surfaces. W. M. Devers. 2,530,232, Nov. 14.
Press: *See*—
  Vulcanizing mold press.
Pressing machine for pants and the like. H. O. Bayler. 2,529,899, Nov. 14.
Pressure cooker closure. A. M. Gorfin. 2,529,767, Nov. 14.
Pressure gauge. D. O. Druge. 2,530,005, Nov. 14.
Pressure relief valve. T. R. Smith. 2,530,091, Nov. 14.
Prevention of mist on transparent sheets and reflectors. A. S. Austin, R. H. Sapiro, and R. P. Fraser. 2,529,585, Nov. 14.
Printing, Method of and apparatus for. G. R. Brodie and W. M. Hawkes, Jr. 2,530,282, Nov. 14.
Producing a constant current. H. Forssell. 2,530,011, Nov. 14.
Producing antihalation photographic article. A. E. Van Dormael and L. A. Van der Auwera. 2,529,890, Nov. 14.
Producing flattened glass tubing, Method of and apparatus for. L. C. Casselle. 2,529,678, Nov. 14.
Producing mineral wool, Method and apparatus for. E. R. Powell. 2,529,962, Nov. 14.
Projector, Visual educational. H. B. Roysher. 2,529,664, Nov. 14.
Pulse height analyzer. M. L. Sands. 2,529,666, Nov. 14.
Pulse multiplex receiving system. W. A. Miller. 2,529,564, Nov. 14.
Pump: *See*—
  Carburetor accelerating pump.
Pump liner, Sleeve type slush. R. Kirkpatrick and H. B. Young. 2,530,246, Nov. 14.
Pump or motor for power transmissions. F. T. Harrington. 2,530,242, Nov. 14.
Purification of thionyl chloride. W. E. Bissinger. 2,529,671, Nov. 14.
Pyridylalkyl esters of aromatic substituted acetic acids. R. R. Burtner and J. M. Brown. 2,529,865, Nov. 14.
Quick freezing. J. Lomholdt-Pedersen. 2,529,959, Nov. 14.
Quinazoline derivatives and making same. E. Moergeli, P. Sutter, and W. Kern. 2,530,025, Nov. 14.
Radiator for space heating. H. C. Hebard. 2,530,058, Nov. 14.
Radio communication system, Two-way. W. A. Harris. 2,529,550, Nov. 14.
Radio object location indicator. J. V. Holdam, Jr., and L. M. Jones. 2,530,060, Nov. 14.
Radio system for measuring distance by phase comparison. T. M. Manley. 2,529,510, Nov. 14.
Rafter gauge. R. C. Higgins. 2,529,939, Nov. 14.
Rail anchor. R. A. McLaughlin. 2,530,021, Nov. 14.
Rail tie, Composition. H. W. Goddin and E. V. Bulow. 2,529,841, Nov. 14.
Range, Cooking. A. E. Smallwood. 2,530,183, Nov. 14.
Ratchet wrench. V. N. Albertson. 2,529,476, Nov. 14.
Razor blade magazine. J. Simon and R. S. Temko. 2,529,819, Nov. 14.
Reactor for high-temperature cracking. R. M. Deanesly. 2,529,598, Nov. 14.
Rear projection viewing screen. I. G. Maloff. 2,529,701, Nov. 14.

Receiver for wave-length modulated electric waves. K. F. Ross. 2,530,081, Nov. 14.
Reciprocating measuring pockets having volume varying means. E. J. Gilmore and E. P. and Z. Lutz. 2,529,654, Nov. 14.
Recorder-connector for use in telephone conversation recording. J. P. Smith, Jr. 2,529,636, Nov. 14.
Recorder, Sequential inspection. F. G. Fales. 2,530,351, Nov. 14.
Recording equipment, Photographic. R. S. Hopkins. 2,529,943, Nov. 14.
Recovering soluble solids from fruit waste. C. S. Ash. 2,530,322, Nov. 14.
Recovery and utilization of olefins by an absorption-alkylation process. C. O. Baker. 2,530,143, Nov. 14.
Reel. K. C. Bugg and H. L. Hart. 2,530,114, Nov. 14.
Reel for motion-picture film and the like. W. E. Johnston. 2,529,501, Nov. 14.
Refrigerating apparatus, Ejector pump. W. H. De Lancey. 2,530,293, Nov. 14.
Refrigerator, Safety. S. O. Morrison. 2,529,782, Nov. 14.
Regulator: *See*—
  Electronic regulator.
Regulator mechanism. J. B. Parsons. 2,529,570, Nov. 14.
Regulator with variable counterbalance, Window. P. B. Witmer. 2,529,986, Nov. 14.
Relay, Latch-in. P. F. Ferry. 2,530,194, Nov. 14.
Removing seed coat from grain. W. B. Thrasher. 2,530,272, Nov. 14.
Repair and conditioning of nylon fabric. H. McAdams. 2,530,259, Nov. 14.
Repair unit for radio sets. W. L. Dockray and R. H. Bruesewitz. 2,530,233, Nov. 14.
Resilient fair-lead. W. S. Clarkson and J. H. Rupe. 2,529,486, Nov. 14.
Revivification of adsorbents. W. J. Murray. 2,529,624, Nov. 14.
Ring roll bearing. R. G. Cramer. 2,529,918, Nov. 14.
Rocker arm cover vapor receiver. B. I. Kraker. 2,529,616, Nov. 14.
Rocker suspension. W. B. Kirkwood and W. R. Stevens. 2,529,613, Nov. 14.
Rocking chair. W. F. Spradlen. 2,529,638, Nov. 14.
Rod for parachutist, Propelling. L. A. V. Rozas. 2,529,966, Nov. 14.
Rotary internal-combustion engine. C. R. Barsby. 2,530,281, Nov. 14.
Rotor assembly. V. E. Cooley. 2,529,487, Nov. 14.
Rotor for helicopters. R. L. Weir. 2,530,276, Nov. 14.
Rule, Slide. N. F. Dewar. 2,530,047, Nov. 14.
Runner attachment, Sleigh. J. H. Graham. 2,530,240, Nov. 14.
Sachet. G. G. Thompson. 2,529,578, Nov. 14.
Sadiron holder. H. A. Perrigo. 2,530,027, Nov. 14.
Safety control system for fluid fuel burners. W. A. Ray. 2,529,740, Nov. 14.
Safety device for money counting machines. T. E. Hayes. 2,530,057, Nov. 14.
Saliva ejector. B. Jankelson. 2,529,499, Nov. 14.
Sand trap. W. H. White. 2,529,751, Nov. 14.
Sandal with integral retaining straps. J. Di Guglielmo. 2,530,004, Nov. 14.
Sanding machine, Road. C. E. Sullivan. 2,529,889, Nov. 14.
Sash holder. C. K. Eppler. 2,530,192, Nov. 14.
Saw with tiltable and vertically adjustable arbor, Table. J. G. Collins. 2,530,290, Nov. 14.
Scale, Spring. H. D. Benson. 2,529,759, Nov. 14.
Scoreboard, Shuffleboard. F. H. Bertelsmeyer. 2,529,535, Nov. 14.
Scourer-aspirator and method. R. B. Dodds. 2,529,679, Nov. 14.
Screen: *See*—
  Rear projection viewing screen.
Screen for paint guns. J. D. Yarnell. 2,529,827, Nov. 14.
Seal for augmenting the flushing capacity of toilet tanks in unstopping sewers, Toilet. H. U. Bates and J. T. Perkins. 2,529,587, Nov. 14.
Seat: *See*—
  Folding seat.
Seat for beauty parlor chairs and the like, Auxiliary. S. H Abbott and J. F. Hutchinson. 2,529,532, Nov. 14.
Seat supporting structure, Adjustable. R. C. Angell and G. H. Browne. 2,529,861, Nov. 14.
Seeding apparatus. G. A. Dunn. 2,529,727, Nov. 14.
Selector mechanism for automatic phonographs. L. J. Andres. 2,530,347, Nov. 14.
Self-aligning bearing mounting. W. Boyd. 2,530,323, Nov. 14.
Sensitive flip-flop circuit. G. J. Scoles. 2,530,033, Nov. 14.
Separating apparatus. F. B. Schilling. 2,530,181, Nov. 14.
Separating higher molecular alcohols from soaps obtained in the preparation of the same. V. Blinoff. 2,530,042, Nov. 14.
Separation of normal paraffins. A. E. Hirschler. 2,530,300, Nov. 14.
Separation of tertiary monohexenes and preparation of 2-methylpentanol-2. B. E. Hudson, Jr. 2,530,332, Nov. 14.
Separator: *See*—
  Centrifugal cyclone separator.
  Liquid separator.
Serine synthesis. J. A. King. 2,530,065, Nov. 14.
Sewing machines for making fabric tubes. R. J. Sailer. 2,529,575, Nov. 14.
Sharpener, Machine-sickle. I. Hunter. 2,529,805, Nov. 14.
Sheet feeding mechanism for billing machines. W. A. Eagan. 2,530,156, Nov. 14.
Shelving, Sectional. G. Coplen. 2,529,649, Nov. 14.
Shipping and display box. R. J. Cody. 2,529,595, Nov. 14.
Shoe part blank and making, Leather. G. F. Ryan. 2,529,818, Nov. 14.
Shutter for motion-picture apparatus. L. T. Askren. 2,529,896, Nov. 14.
Shuttle-holding and mounting mechanism for sewing and quilting machines. K. Schlegel. 2,529,969, Nov. 14.
Sign device, Illuminated changeable. G. L. Castillon. 2,530,044, Nov. 14.
Signal unit for telephone conversation recorders. E. S. Peterson. 2,530,075, Nov. 14.
Signaling device for fishing lines. E. Evans. 2,530,050, Nov. 14.
Signaling system, Secret. C. E. Atkins. 2,530,140, Nov. 14.
Signaling system, Secret. C. E. Atkins. 2,530,142, Nov. 14.
Silicon ester resins, Making. J. R. Myles and N. H. Ray. 2,529,956, Nov. 14.
Simulated log serving bar. F. L. Erickson. 2,530,120, Nov. 14.
Skirt for safes. F. J. Bremer. 2,529,761, Nov. 14.
Sleeve for pressure-type gas burners and the like, Self-aligning. C. M. Guy. 2,529,768, Nov. 14.
Slicing and dispensing machine, Butter. W. R. Scharsch. 2,529,850, Nov. 14.
Slide for firearms, Action. C. G. Swebilius. 2,530,363, Nov. 14.
Sliding contact system for conducting electric currents. D. Sciaky. 2,529,634, Nov. 14.
Sliding door lock. A. H. Groeger. 2,530,330, Nov. 14.
Slotting machine. T. F. Eserkaln and C. A. Parske. 2,529,680, Nov. 14.
Smoke control. J. Gadzuk. 2,529,491, Nov. 14.
Snap action switch. L. M. Persons. 2,529,785, Nov. 14.
Snap switch. A. J. Vaksvik and M. B. Arisman. 2,529,716, Nov. 14.
Spheroidal Fischer-Tropsch catalyst, Preparation of a. R. N. Watts. 2,530,345, Nov. 14.
Spike, Railroad. H. H. Clark. 2,530,229, Nov. 14.
Spindle, High-speed spinning or twisting. K. Beerli. 2,529,904, Nov. 14.
Splint, Forearm. F. C. Shaw. 2,529,786, Nov. 14.
Spout for cans, Drinking. J. Maged and C. M. Kramer. 2,530,253, Nov. 14.
Spray, Cooling tower. J. A. Cov. 2,530,002, Nov. 14.
Sprayer, Livestock. W. and W. H. Abildgaard. 2,529,530, Nov. 14.
Spraying apparatus. J. Winks and L. Fletcher. 2,529,645, Nov. 14.
Spraying apparatus for molten materials, Portable. E. L. Trimm and N. Arnow. 2,530,186, Nov. 14.
Spring dampener. J. L. Sjolander. 2,530,034, Nov. 14.
Spring device. A. F. O'Connor. 2,530,072, Nov. 14.
Spring mounting for seats. P. Sterzer. 2,529,639, Nov. 14.
Stabilization of regenerated cellulose. E. C. Pfeffer, Jr., and J. Epelberg. 2,530,175, Nov. 14.
Stabilizer for helicopters, Automatic. M. F. Bates. 2,529,479, Nov. 14.
Stable vertical element. A. P. Davis. 2,530,154, Nov. 14.
Stamp forming apparatus. S. Diuk. 2,529,543, Nov. 14.
Stapling machine. D. D. Corwin. 2,530,152, Nov. 14.
Starter booster. E. Davolt. 2,529,921, Nov. 14.
Steering apparatus, Motor vehicle. P. L. Rozwood. 2,529,967, Nov. 14.
Sterilizing. A. D. Singh. 2,529,710, Nov. 14.
Stick dispenser. N. J. Simpkins and D. H. Fischer. 2,530,086, Nov. 14.
Stool having a rotatable seat. H. W. Miller. 2,529,780, Nov. 14.
Stove attachment. C. T. Stevens. 2,530,095, Nov. 14.
Strainer, Hop. C. F. Mittman. 2,529,882, Nov. 14.
Strainer, Liquid. G. M. Walton. 2,529,580, Nov. 14.
Stylus, Recording. I. L. Capps and E. G. Cook. 2,530,284, Nov. 14.
Submerged flame burner. N. Swindin. 2,530,271, Nov. 14.
Sulfonation of allyl esters. J. S. Brod. 2,529,537, Nov. 14.
Sulfonation of olefins. R. A. Henry and J. S. Brod. 2,529,538, Nov. 14.
Sulfonation of unsaturated esters. J. S. Brod and R. A. Henry. 2,529,539, Nov. 14.
Supercharger. P. Brevard. 2,529,864, Nov. 14.
Support: *See*—
  Work support.
Support comprising a ring having a plurality of fingers extending forwardly and rearwardly of the ring, Light bulb. E. A. Price. 2,530,360, Nov. 14.
Support for conveyer rollers. K. W. Gass. 2,529,684, Nov. 14.

Support for hollow articles providing means to control the cooling of the material within the article. E. E. Franz. 2,530,238, Nov. 14.
Support for lighting fixtures employing elongated tubular lamps. C. E. Barker. 2,529,990, Nov. 14.
Support for office machines. R. E. Annerén. 2,529,475, Nov. 14.
Supporting gas-turbine power plants. F. M. Owner and A. G. Henstridge. 2,529,958, Nov. 14.
Surge chamber. E. K. Carver. 2,530,190, Nov. 14.
Swath turner. R. H. and E. H. Schempp. 2,529,577, Nov. 14.
Sweeper, Suction street. B. B. Boyce and W. B. Powell. 2,529,993, Nov. 14.
Sweetening gasoline. G. W. Ayers and E. E. Harton. 2,529,670, Nov. 14.
Swinging slide valve. F. C. Fants. 2,530,295, Nov. 14.
Switch: *See*—
Automatic control switch.
Combined ignition and starter switch.
Electric switch.
Electrical switch.
Engine safety switch.
Feed-through switch.
Limit switch.
Snap action switch.
Snap switch.
Thermal safety pilot switch.
Thermostatic switch.
Switch construction, Rotary. G. S. Ellithorpe. 2,530,006, Nov. 14.
Switch having a blade torsionally mounted, Snap. E. A. Miller. 2,529,881, Nov. 14.
Switch system, Resonant. H. Reifel. 2,529,814, Nov. 14.
Synthesis gases, Manufacture of. E. H. Reichl. 2,529,630, Nov. 14.
Synthetic resins from a dichloroalkane and a hydrocarbon fraction containing chloro-aromatic hydrocarbons, Preparation of. H. S. Bloch. 2,529,591, Nov. 14.
Table: *See*—
Folding leg table.
Table and chair. B. J. Greenbaum. 2,529,687, Nov. 14.
Table for textiles, Inspection and cleaning. D. O. Wylie. 2,530,088, Nov. 14.
Tail gate actuating mechanism. W. A. Wolf. 2,530,346, Nov. 14.
Tapping apparatus. A. J. Schaid. 2,530,268, Nov. 14.
Telephone system, Relay automatic. J. H. Voss. 2,530,104, Nov. 14.
Telescope gun sight mount, Hinged. G. D. Fisk. 2,529,801, 2,529,801, Nov. 14.
Television receiver antenna input circuit. G. F. Fyler. 2,530,329, Nov. 14.
Television receiving system, Color. R. C. Webb. 2,530,107, Nov. 14.
Temperature control apparatus. J. A. McLean, Jr. 2,530,388, Nov. 14.
Tenter. J. Dungler. 2,530,118, Nov. 14.
Tentering machine. J. Dungler. 2,530,119, Nov. 14.
Terminal, Magnetron output. E. C. Okress. 2,530,171, Nov. 14.
Terminal strip for electromagnets. H. E. Epstein. 2,529,653, Nov. 14.
Thermal safety pilot switch. S. R. Hood. 2,530,059, Nov. 14.
Thermoelectric generator. S. K. Malek. 2,530,255–6, Nov. 14.
Thermometer, Clinical. L. Eisele. 2,530,235, Nov. 14.
Thermopile construction. S. K. Malek. 2,530,254, Nov. 14.
Thermoplastic tube assemblies, Method and apparatus for making hard. C. T. Bowen. 2,529,863, Nov. 14.
Thermostatic switch. F. L. Hollister. 2,529,941, Nov. 14.
Thread anvil. C. Russell and H. R. Kiel. 2,530,267, Nov. 14.
Thread extracting, clamping, and cutting device for looms. G. F. Bahan. 2,529,758, Nov. 14.
3-methyl-hexen(2)-yne(5) derivatives. A. Businger. 2,529,482, Nov. 14.
Ticket machine. R. I. N. Weingart. 2,529,750, Nov. 14.
Tie knot former. V. M. Newman. 2,529,957, Nov. 14.
Time announcing system. E. S. Peterson. 2,530,076, Nov. 14.
Timer. J. H. Booth. 2,529,480, Nov. 14.
Tire making machine. C. E. Powers. 2,529,739, Nov. 14.
Tire pressure gauge. C. P. Potts. 2,529,813, Nov. 14.
Tire, Tubeless. R. R. Sutton. 2,530,213, Nov. 14.
Tissues and dispenser therefor, Folded. D. C. Taggart. 2,529,853, Nov. 14.
Tobacco cartridge for smoking pipes. L. Beiser. 2,529,902, Nov. 14.
Tone arm. J. R. Carris. 2,529,676, Nov. 14.
Tool: *See*—
Brake pin tool.
Combination chain saw servicing tool.
Tool. E. A. Zempel. 2,529,988, Nov. 14.
Tool handle. C. S. Gates. 2,530,297, Nov. 14.
Toolholder, Threading. E. Frommer. 2,530,162, Nov. 14.
Tool package. W. S. Moody. 2,530,024, Nov. 14.
Torch construction for electric lighters. N. N. Stern. 2,529,746, Nov. 14.
Toy aircraft, Sheet material. R. B. Turnbull. 2,529,979, Nov. 14.
Toy and bank, Combination candy-filled musical. J. H. Millstein. 2,529,661, Nov. 14.
Toy explosive. E. Storey. 2,530,317, Nov. 14.
Toy gun. J. A. Sigg. 2,529,709, Nov. 14.
Toy, Knockdown wheeled. L. M. Holmes. 2,529,692, Nov. 14.
Toy, Magnetic. F. G. Hanback. 2,530,013, Nov. 14.
Toy motor vehicle simulated steering wheel. J. F. Alter. 2,529,755, Nov. 14.
Toy, Moving and sounding figure. O. L. Ritter. 2,529,631, Nov. 14.
Traction device. T. F. Whichard, Sr., C. E. and O. B. Flodquist. 2,530,108, Nov. 14.
Trailer for boat handling. E. W. Oeth. 2,529,849, Nov. 14.
Transducer and system. F. Massa. 2,529,658, Nov. 14.
Transducer, Magnetostriction. L. W. Camp. 2,530,224, Nov. 14.
Transmission. H. F. Hobbs. 2,530,200, Nov. 14.
Transmission line, Bent coaxial. C. W. Jones. 2,530,064, Nov. 14.
Transmission mechanism. F. R. McFarland. 2,530,310, Nov. 14.
Transmission, Two-speed rear axle. V. E. Murray. 2,529,623, Nov. 14.
Transmitting system, Radio-electric. R. Villem. 2,529,667, Nov. 14.
Transponder tester circuit. D. K. Speed. 2,530,093, Nov. 14.
Trap: *See*—
Sand trap.
Traverse mechanism for winding machines. W. H. Kreamer. 2,529,559, Nov. 14.
Tray supporting means. W. McArthur. 2,530,020, Nov. 14.
Treating a water base drilling mud to remove contaminating sulfate ions. W. B. Bergman. 2,529,760, Nov. 14.
Treatment for the improvement of lubricating oils. P. H. Carnell. 2,529,484, Nov. 14.
Tree planter. S. L. Miller and L. W. Amort. 2,530,260, Nov. 14.
Trellis. A. S. Kourl. 2,530,015, Nov. 14.
Tricycle. L. M. J. Foulke. 2,529,930, Nov. 14.
Tripod head for cameras and the like. E. P. Evers. 2,530,294, Nov. 14.
Trouser cuff shaper. S. Schussel. 2,529,708, Nov. 14.
Truck, Pickup delivery. L. E. Troth. 2,530,097, Nov. 14.
Tube: *See*—
Discharge tube.
Tube coupling with rubber seal. R. E. Herold. 2,529,552, Nov. 14.
Tube failure detection circuit. E. A. Ford. 2,529,928, Nov. 14.
Tube socket. W. I. Kelly and J. R. Livingood. 2,529,502, Nov. 14.
Tube squeezer, Roll type collapsible. D. D. Derrick. 2,530,327, Nov. 14.
Tube structure, Electron. J. C. Smiley, Jr. 2,529,820, Nov. 14.
Tubing, Finned. R. C. Edwards. 2,529,545, Nov. 14.
Tungsten monocarbide from tungsten-containing material, Making. P. M. McKenna. 2,529,778, Nov. 14.
Tuning device, particularly for frequency-modulation receivers, Indicating. A. Violet. 2,529,980, Nov. 14.
Turboexpander. A. W. McClure. 2,529,880, Nov. 14.
2,8-diaminodibenzothiophene dioxide and N,N′-derivatives. E. D. Amstutz. 2,529,860, Nov. 14.
2-(tertiary-aminoalkyl)-2-(substituted-phenyl) ethylamines. C. E. Kwartler and P. Lucas. 2,530,126, Nov. 14.
2,2-bis (4-methoxyphenyl)-1,1,1-tricholoroethane insecticidal dust and making same. A. L. Flenner. 2,529,682, Nov. 14.
2-(2-hydroxyethoxy) ethylamine. J. B. Dickey and J. G. McNally. 2,529,923, Nov. 14.
Ultra high frequency generator. E. C. Okress. 2,530,172, Nov. 14.
Ultra high frequency resonant circuit. L. C. Smith. 2,530,089, Nov. 14.
Unbalanced-to-balanced impedance matching device. C. Driscoll. 2,530,048, Nov. 14.
Undergarment, Lady's. S. Landau. 2,529,774, Nov. 14.
Underply turn down and stitching device. E. E. Mallory and J. W. White. 2,529,509, Nov. 14.
Unloader for farm vehicles. E. R. Ehlert. 2,530,350, Nov. 14.
Vacuum cleaner. L. Namenyi-Katz. 2,529,625, Nov. 14.
Vacuum packing food products under agitation. H. L. Roberts and P. Sognefest. 2,529,514, Nov. 14.
Valve: *See*—
Air vent valve.
Carburetor valve.
Gas safety valve.
Lift plug valve.
Multiport valve.
Pressure relief valve.
Swinging slide valve.
Valve. M. L. Bryer. 2,529,795, Nov. 14.
Valve device for pressure fluid containers. E. E. Martin. 2,529,808, Nov. 14.
Valve for hose nozzles, Automatic safety shutoff. A. L. Grisé. 2,529,936, Nov. 14.
Valve position indicator operating mechanism, Waterworks. E. D. Harshbarger. 2,530,164, Nov. 14.
Valve rod guide for flush tanks. S. W. Sincomb. 2,530,209, Nov. 14.
Valve unit, Dual. W. E. Snowden and H. F. Raynor. 2,529,852, Nov. 14.
Vanity case and utility light, Combination illuminated. C. F. Scott. 2,529,972, Nov. 14.
Vaporizer and igniter, Oil burner. H. L. Finley. 2,530,237, Nov. 14.

Vehicle suspension. J. and E. J. Knopka. 2,529,806, Nov. 14.
Velocipede, Lifting. E. M. Wade and L. J. Costa. 2,529,749, Nov. 14.
Venetian blind. W. Turkowski. 2,529,714, Nov. 14.
Ventilator and deflector, Storm sash. W. Witynx and F. Kendra. 2,529,792, Nov. 14.
Vibration damping device. H. A. Otto. 2,529,883, Nov. 14.
View finder, Multiple image. R. B. Houck. 2,529,944, Nov. 14.
Vise having rockable lever for sequentially positioning and advancing slidable jaw, Quick-acting. B. H. Parker. 2,530,130, Nov. 14.
Vise with improved actuator and adjustment means, Air-operated. E. H. Shaff. 2,530,085, Nov. 14.
Voltmeter, Load reading. R. L. Wright. 2,530,188, Nov. 14.
Volume control arrangement, Automatic. L. W. Couillard. 2,530,000, Nov. 14.
Vulcanizing method and apparatus. J. M. Bierer. 2,529,830, Nov. 14.
Vulcanizing mold press. M. W. Van Scoyk. 2,529,522, Nov. 14.
Warning device. C. D. Scanlon. 2,529,576, Nov. 14.
Water closet construction. I. H. Russell. 2,529,633, Nov. 14.
Water closet construction. I. H. Russell and J. A. Sloan. 2,529,632, Nov. 14.
Water-soluble melamine-formaldehyde resins and products thereof, Preparing. H. J. West and W. T. Watt. 2,529,856, Nov. 14.
Water-tube boiler. F. L. Kallam. 2,529,611, Nov. 14.
Watering device. J. C. Oldfield. 2,529,627, Nov. 14.
Wet guide. L. Hornbostel. 2,530,122, Nov. 14.
Wheel: *See*—
Lower fifth wheel.
Oil driven turbine motor vehicle wheel.
Toy motor vehicle simulated steering wheel.
Wheel guard, Tractor. T. C. Glass. 2,530,053, Nov. 14.
Windshield for convertible automobiles, Secondary. F. Quackenbush. 2,530,266, Nov. 14.
Winding mechanism for deck hoists. G. E. Dath. 2,529,597, Nov. 14.
Window shade construction. C. G. Barrows. 2,530,218, Nov. 14.
Wire stitching mechanism. J. I. Nasmith. 2,530,312, Nov. 14.
Work support. G. G. Landis and N. J. Hoenie 2,530,016, Nov. 14.
Wrench: *See*—
Clutch-head torque indicating wrench.
Ratchet wrench.
Wrench holder. K. F. Leach. 2,530,307, Nov. 14.
X-ray apparatus, Dual focus. C. M. Slack. 2,530,182, Nov. 14.
X-ray cassette. D. Armstrong. 2,530,321, Nov. 14.
Zero suppression system for electronic moisture register instruments. M. L. McBrayer and A. J. Swyke. 2,529,846, Nov. 14.
Zinc oxide phosphor, Making a. A. L. J. Smith. 2,529,711, Nov. 14.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 14, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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2,530,288: 3—3
2,530,318: 279—71
2,530,319: 164—61
2,530,324: 211—119.1
2,530,336: 312—274
2,530,355: 260—30.2
2,530,359: 74—169
2,530,363: 29—1.1

CLASSIFICATION OF DESIGNS

D 1— 2: Des. 160,904
D 3—17: Des. 160,831
19: Des. 160,907
25: Des. 160,857
Des. 160,883
26: Des. 160,833
Des. 160,888
D 4— 4: Des. 160,871
D 5— 2: Des. 160,872
D 7— 7: Des. 160,835
Des. 160,836
Des. 160,837
Des. 160,838
Des. 160,891

D10— 7: Des. 160,859
D14— 6: Des. 160,854
Des. 160,855
Des. 160,880
D26— 5: Des. 160,834
8: Des. 160,853
14: Des. 160,867
D28— 1: Des. 160,908
D29— 2: Des. 160,909
23: Des. 160,873
D31— 4: Des. 160,890
D33— 2: Des. 160,900
Des. 160,901
Des. 160,902

D33— 2: Des. 160,903
D34— 2: Des. 160,874
Des. 160,895
5: Des. 160,850
Des. 160,863
Des. 160,889
Des. 160,905
13: Des. 160,906
15: Des. 160,869
Des. 160,884
Des. 160,885
Des. 160,886
Des. 160,887
Des. 160,910

D35— 3: Des. 160,892
D36— 2: Des. 160,860
8: Des. 160,843
D42— 7: Des. 160,832
Des. 160,868
D44— 6: Des. 160,846
10: Des. 160,848
15: Des. 160,875
22: Des. 160,844
Des. 160,876
25: Des. 160,912
29: Des. 160,849
D45— 4: Des. 160,861
Des. 160,893

D48— 4: Des. 160,899
23: Des. 160,870
D54— 2: Des. 160,877
D56— 1: Des. 160,879
Des. 160,898
4: Des. 160,878
9: Des. 160,839
D57— 1: Des. 166,847
Des. 160,897
D58— 5: Des. 160,896
26: Des. 160,881
D61— 1: Des. 160,858
D64—11: Des. 160,862
12: Des. 160,852

D65— 1: Des. 160,845
D68— 1: Des. 160,866
D71— 1: Des. 160,841
Des. 160,842
Des. 160,865
D72— 1: Des. 160,840
D80— 9: Des. 160,830
D81— 4: Des. 160,882
10: Des. 160,864
D85— 2: Des. 160,911
D87— 2: Des. 160,894
D92— 2: Des. 160,856
D93— 3: Des. 160,851

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Trade-Marks	17—No.	444,320	to No.	444,336, inclusive
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Reissues	2—No.	23,294	to No.	23,295, inclusive
Plant Patents	4—No.	988	to No.	991, inclusive
Patents	1,013—No.	2,530,366	to No.	2,531,378, inclusive
Designs	74—No.	160,913	to No.	160,986, inclusive
Total	1,480			

Patents expiring: Patent Numbers 1,935,602 to 1,936,567, inclusive, issued November 21, 1933, expire November 21, 1950

Condition of Applications Under Examination at Close of Business Nov. 3, 1950

Total number of patent applications awaiting action, 126,495. Date of oldest new application, September 1, 1949; date of oldest amended application, August 29, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
* C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spitoons; Sewage.	11-25-49	11-23-49	2049
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	11-9-49	10-19-49	2089
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	2-1-50	2-8-50	1695
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	9-3-49	9-1-49	2296
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-27-49	10-4-49	1560
6. SURLE, H., Carbon Chemistry (part)	1-30-50	1-25-50	1872
7. GONSALVES, J. E., Optics; Photography (part)	4-19-50	4-22-50	1295
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	10-3-49	10-1-49	2036
9. BENSON, R. B., Pumps and Fans	10-27-49	10-21-49	1459
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	1-20-50	10-27-49	1434
11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	9-17-49	9-23-49	1616
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-23-49	12-7-49	1369
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	10-1-49	10-5-49	1964
14. MANIAN, JOSEPH C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	11-22-49	11-25-49	1327
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	3-9-50	3-3-50	1313
16. LOVEWELL, N. N., Television; Telephony	2-25-50	1-27-50	1053
17. LEIGHEY, R. A., Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-17-49	11-9-49	2037
18. KURZ, J. A., Power Plants; Speed Responsive Devices	9-27-49	9-2-49	1697
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11-25-49	10-25-49	1256
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	10-13-49	10-12-49	1979
21. MADER, R. C., Textiles; Package and Article Carriers	9-17-49	10-8-49	1902
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid and Fluid Current Motors	11-1-49	10-21-49	1523
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-22-49	10-26-49	763
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	3-6-50	3-22-50	1622
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-18-50	1-14-50	1557
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-5-50	1-3-50	1401
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	12-3-49	11-28-49	2119
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-13-49	9-6-49	1630
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-10-50	1-7-50	1787
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	3-3-50	3-3-50	2053
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-18-50	1-31-50	2164
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	2-21-50	1-11-50	1556
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-3-50	12-3-49	2155
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	10-31-49	10-19-49	1733
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	10-17-49	11-10-49	1802
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	10-21-49	10-29-49	1686
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	11-28-49	11-9-49	1077
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	3-4-50	1-26-50	1421
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	9-2-49	9-6-49	3179
40. DRUMMOND, E. J., Receptacles (part); Packages	1-3-50	12-6-49	3242
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-12-49	9-6-49	1599
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-25-50	11-5-49	2197
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-27-50	2-21-50	1032

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 126,495. Date of oldest new application, September 1, 1949; date of oldest amended application, August 29, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
44. HARVEY, L. P., Beds; Chairs, Seats	9-1-49	9-6-49	1964
45. MANJAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-7-49	10-13-49	1890
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	11-7-49	11-5-49	1380
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-4-50	12-1-49	1905
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	2-7-50	11-2-49	1130
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	10-14-49	10-1-49	2159
50. LEVIN, SAMUEL, Synthetic Resins	4-5-50	2-10-50	1737
51. YAFFEE, S., (Acting), Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	12-20-49	11-9-49	1574
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	10-10-49	10-5-49	3188
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	1-16-50	12-1-49	1281
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	1-4-50	1-19-50	1500
55. KLINE, J. R., (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	2-9-50	1-25-50	1367
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	1-17-50	1-13-50	1684
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	3-4-50	3-3-50	1441
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	10-13-49	1534
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-6-50	1-25-50	1130
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	3-31-50	2-9-50	1115
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-5-49	11-2-49	1898
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	11-23-49	11-9-49	2548
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	2-10-50	2-11-50	1621
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	4-10-50	4-11-50	1723
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-7-50	2-1-50	1832
66. LISANN, I., Geometrical Instruments	11-19-50	9-14-49	1150
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-4-50	2-14-50	1376
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-7-50	1-23-50	1578
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-7-49	11-5-49	2028
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	9-19-49	8-29-49	2211
DESIGNS: BREHM, G. L.	11-5-49	5-15-50	4715

Total number of trade-mark applications awaiting action (including renewals and republications) 22,294. Date of oldest new application, Jan. 24, 1950; date of oldest amended application, Jan. 24, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-8-50	2-8-50	6516
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	2-17-50	2-23-50	3933
Renewals (All Classes)	9-1-50	10-3-50	264
Republications (All Classes)	9-12-50	10-3-50	256
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	2-15-50	2-14-50	5485
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-24-50	1-24-50	5840

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE HANSEN ET AL.

No. 5696. Decided June 30, 1950

[183 F.2d 92; 86 USPQ 390]

1. PATENTABILITY—PROCESS—PERFORMED BY REFERENCE APPARATUS.
   Inasmuch as the elements of the patented apparatus, in their usual and normal operation, perform the function defined by the last step of the disputed method claim, the claim is not rendered patentable by that step, for there is no invention involved in doing the thing performed by the method defined by the patented device.
2. SAME—SAME—PURPOSE OF REFERENCE IMMATERIAL.
   Held that it is clear that every physical step in the appealed method claims is anticipated by the reference patent and it is immaterial what purpose the patentee had in mind.
3. SAME—PARTICULAR SUBJECT MATTER—PROCESS AND APPARATUS FOR MEASURING ELECTRIC POWER.
   Certain claims to a process and apparatus for measuring high frequency power *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Serial No. 429,508. AFFIRMED.

Paul B. Hunter (*Thomas M. Ferrill, Jr.*, of counsel) for Hansen et al.

E. L. Reynolds for the Commissioner of Patents.

JACKSON, *J.:*

This appeal is from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting method claims 50, 52, 53, 62, and 93, and article claims 55, 58, and 60, of a patent application, Serial No. 429,508, filed February 4, 1942, "For High Frequency Power Measuring Device," as lacking invention over the prior art. Twelve article claims and four method claims were allowed.

Claims 55 and 93 are illustrative of the involved subject matter and read as follows:

55. In apparatus for measuring high frequency power, a resistor having a substantial temperature coefficient, electrical supply means for energizing said resistor to a predetermined operating temperature, means for supplying to said resistor a predetermined fraction of the high frequency power to be measured, thereby additionally heating said resistor, control means in said electrical supply means capable of reducing the power supplied therefrom to said resistor by an amount proportional to the high frequency power dissipated in said resistor, and means for measuring said power reduction.

93. The method of measuring high frequency power by means of a bridge circuit having one element variable in resistance in accordance with excitation thereof, comprising the steps of exciting said element to a predetermined condition and balancing said bridge in the absence of said high frequency power to be measured, adding said power to said element to vary its resistance and thereby unbalance said bridge, decreasing the original excitation of said element to restore said bridge to balance, and measuring said decrease in excitation, whereby said high frequency power is determined as equal to said decrease in excitation.

The involved claims were rejected on the following cited prior art: Chubb, 1,590,420, June 29, 1926; Fetsch, Jr., 1,901,741, March 14, 1933.

The subject matter of the invention relates to a microwave radio power measuring bridge system adapted for receiving an accurate measuring of microwave energy production at low power levels. The system includes a small filamentary resistance element in which the microwave power is dissipated and its magnitude determined by what is called by appellants a "power substitution method." The resistance element, which may be a short length of extremely fine gauge platinum wire, is selected as being adapted to an appreciable change of resistance with change of temperature. It is stated in the brief of counsel for appellants that the microwave power determination is accomplished as follows:

(*a*) Initially supplying appreciable direct-current power to this element—an amount in excess of the greatest amount of microwave power (extremely high frequency power) to be absorbed,
(*b*) Determining the amount of direct-current power initially being absorbed in the element,
(*c*) Admitting the microwave power to the element in addition to the D. C. power, with a resultant increase of temperature (and resistance) of the very small resistance element,
(*d*) Reducing the amount of direct-current power supplied to the element to just the extent to restore it to its initial temperature and resistance, and
(*e*) Measuring the new direct-current power level and subtracting this amount from the initial direct-current power to ascertain the extent of the power reduction, this value being the true measure of the microwave power being taken by the element.

The involved claims were rejected on the patent to Chubb or on the Fetsch, Jr. patent in view of the patent to Chubb. It is stated in the brief of the Solicitor that the latter rejection is merely cumulative and if any of the claims are allowable over the Chubb patent alone, such allowance would be justified over the Fetsch, Jr. patent in view of the patent to Chubb.

For the reason that claim 93 is the most specific of the process claims and the only one specifically considered in the brief of counsel for appellants, it is considered that if that claim has been properly held to be unpatentable, none of the other process claims can be allowed.

It may be noted that claim 93 provides in the first clause thereof for "The method of measuring high frequency power by means of a bridge circuit having one element variable in resistance in accordance with excitation thereof, * * *" and the

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first two steps of the method are (1) "exciting said element to a predetermined condition" and (2) "balancing said bridge in the absence of said high frequency power to be measured, * * *."

The Chubb patent, which relates to a "comparator," and an object of which is to compare alternating currents with direct currents, or the comparison of two or more independent alternating currents in order to determine the respective values in either instance, discloses the electrical measurements made by means of a bridge circuit having as one element two incandescent lamps which are of variable resistance depending upon the excitation thereof and concerning which it is stated in the specification as follows:

> However, incandescent lamps, being readily responsive to the heat of an additional current to thereby vary their resistance values, are preferable by reason of the fact that the herein described comparator is designed for use with feeble currents.

The method of the patent comprises steps of exciting the incandescent lamps to a predetermined condition by means of a battery and balancing the bridge in the absence of high frequency power, as shown in the specification as follows:

> In this illustration, the arms of the bridge are shown as normally balanced, thereby producing equal potentials at the points 9 and 11 of the bridge. Connected between the points 9 and 11 is, preferably, a string galvanometer 12, through which no current flows when the bridge is balanced.

The points 9 and 11 contained in the above quotation are the terminals of a line into which the galvanometer is connected.

The next step of claim 93 "decreasing the original direct-current excitation of said element to restore said bridge to balance," it appears to us, is described in the Chubb specification as follows:

> It will be apparent that, in place of the galvanometer 12, a direct-reading indicator or measuring instrument could be connected across the bridge at the points of equal poentials so that the amount of deviation of this instrument would then be an indication of the value of the alternating current applied to the arm 5. In this instance, equal potential could be restored across the terminals of the instrument, after the bridge has been unbalanced, by variation of the resistor 16 to restore the ratio of the arms of the bridge.

The last step of the claim is "and measuring said decrease in excitation, whereby said high frequency power is determined as equal to said decrease in excitation." That step, in our opinion, is disclosed as inherent in the Chubb patent for the reason that it merely involves determining how much the resistor 16 of that patent has been adjusted. That is clear, because, as stated in the brief of the Solicitor, there would be no point in balancing the resistor without noting the change necessary therein. The final clause in claim 93 is the mere recitation of a function. [1] Inasmuch as the elements of the patented apparatus in their usual and normal operation perform the function defined by the last step of the disputed method claim, the claim is not rendered patentable by that step, for there is no invention involved in doing the thing performed by the method defined by the patented device. *In re Stacy*, 30 CCPA (Patents) 972, 135 F.2d 232, 57 USPQ 307, 554 O. G. 11; *In re Williford*, 34 CCPA (Patents) 812, 158 F.2d 997, 72 USPQ 321, 598 O. G. 827; see *In re Hooker*, 36 CCPA (Patents) 1164, 175 F.2d 558, 82 USPQ 190, 627 O. G. 299.

From what has been hereinbefore set out, we are of opinion that the method steps of claim 93 are readable on the Chubb patent and, therefore, that claim, together with the other process claims, was properly rejected.

It is contended by counsel for appellants that the tribunals below did not properly interpret the Chubb patent for the alleged reason that if the patentee had in mind the power system of measurement he should have taught that his resistance means should be replaced by a potentiometer arrangement and that appreciable direct-current should be supplied sufficient to heat the incandescent lamps in excess of the maximum anticipated alternating current heating thereof and to teach the advisability of employing a relatively low-sensitivity galvanometer and the need for a direct-current volt meter connected to the bridge so as to indicate the magnitude of the direct voltage across the bridge element which comprises the series-connected lamps. In other words, the contention of counsel for appellant appears to be that the resistance means of the Chubb patent is merely a means for compensating for changes in the internal resistance of the battery. We are unable to agree with such contentions. We think that the patentee was exact in setting out the function of his resistance means. It may be noted in the quotation from the specification bearing on this question that it is expressly stated that the bridge shows a deviation which indicates the value of the alternating current, and then that equal potential can be restored after the bridge has been unbalanced by variation of the resistor. Seemingly, there is no other way in which adjustment of the resistor could restore the balance of the bridge during the application of alternating current.

While the patentee does not set out in so many words that he measures the adjustment of the resistor and thereby computes the alternating current or power, we think it is clear from his specification and drawing that such measurement would be obvious to anyone skilled in the art. It is stated in the specification that

> If, now, it is desired to measure the value of the alternating current from the circuit 15, this may be accomplished by adjusting the variable resistor of arm 4 to effect equal potentials between the points 9 and 11.

While it appears that the patentee is concerned with the measurement of current rather than power, it was properly pointed out by the Board that power is a function of current and may be calculated therefrom. Therefore, power can be determined by the patentee's measurement of the current.

It may be noted that claim 93 does not set out that the steps therein alone measure the power and therefore it does not preclude further and additional calculations.

[2] The introductory part of the claim stating that it is for measuring power is not a limitation on which the claim may be considered patentable. *In re Hooker*, supra; *In re Rockwell*, 32 CCPA (Patents) 1177, 150 F.2d 560, 66 USPQ 215, 580 O. G. 158; *In re Stacy*, supra. It is clear to us that every physical step appearing in the appealed method claims is anticipated by the Chubb patent and it is immaterial what purpose the patentee had in mind.

There is no limitation contained in the involved method claims to sustain the contention of counsel for appellants that the references "fail to teach the initial excitation or energization of the bridge element to the extent to equal or exceed the maximum power value to be determined." It has been pointed out in the brief of the Solicitor that such step is necessarily inherent in the process of the Chubb patent, otherwise it would be impossibel to balance the bridge by means of the patentee's resistor. We agree with that statement.

The involved article claims, in our opinion, are anticipated by the patent to Chubb for substantially the same reasons which are applicable to method claim 93. The patentee discloses a battery which energizes the two incandescent lamp resistors and his resistor 16 is the means to reduce the power. Claim 58 is similar to claim 55 and the same reason applies for its rejection.

Claim 60 differs from claims 55 and 58 in that it defines a means for maintaining the voltage constant from the source. The patentee, in his specification, states that voltage for the arms of the bridge is constant and supplied thereto from a battery. He notes that the battery is a conventional exemplification of any source of constant electromotive force. We are in agreement with the tribunals of the Patent Office that the Chubb reference fully discloses the methods and apparatus defined in the appealed claims.

[3] For the reasons hereinbefore set out, the decision of the Board of Appeals is affirmed.

AFFIRMED.

JOHNSON, *J.* (concurring):

The rule of the Hooker, Rockwell, and Stacy cases applies to "introductory clauses" in claims and provides that such clauses are not to be considered as part of the subject matter of the claim. If there is an introductory clause in claim 93, it must be the portion of the claim preceding the first comma, viz:

> The method of measuring high frequency power by means of a bridge circuit having one element variable in resistance in accordance with excitation thereof, * * *.

The general rule of those cases that an introductory clause which states only the environment, intended use, or purpose of the structure later recited in the claim is not a limitation on the subject matter of the claim is, as the Rockwell case points out, subject to a well defined exception which governs when the introductory clause gives meaning and vitality to the claim. As in *Hall* v. *Shimadzu*, 19 CCPA (Patents) 1289, 59 F.2d 225, 13 USPQ 259, 424 O. G. 330, the exception to the general rule applies here where the so-called introductory clause is essential to the consideration of the improvement alleged to be inventive and defined by claim 93. While I agree that claim 93 does not define a patentable improvement, I believe that the court's statement respecting the "introductory part" of claim 93 should not be construed as a precedent extending the rule of the Hooker, Rockwell, and Stacy cases to method claims, such as claim 93, with introductory clauses which give meaning and vitality to the balance of the claims. See also *Kenyon* v. *Crane*, 28 CCPA (Patents) 1208, 120 F.2d 380, 49 USPQ 707, 530 O. G. 957; *Lawson* v. *Davis*, 29 CCPA (Patents) 1217, 129 F.2d 873, 54 USPQ 405, 544 O. G. 687.

U. S. Court of Customs and Patent Appeals

FIELD *v.* KNOWLES

FIELD ET AL. *v.* KNOWLES

Nos. 5692, 5693. Decided June 30, 1950

[183 F.2d 593; 86 USPQ 373]

1. INTERFERENCE—REDUCTION TO PRACTICE—OPERABILITY.
   Held that there is a different basis for evaluating the standard of operativeness required for an application disclosure and that required to establish reduction to practice in an interference contest, since in the latter the machine must be tested under actual working conditions in such a way as to demonstrate its practical utility for its intended purpose.
2. SAME—SAME—SAME.
   Since the senior party was not an expert in the particular art, *Held* that his failure to accomplish an actual reduction to practice may not be relied upon by the junior party to establish that the device would be inoperative in the hands of a person skilled in the art.
3. SAME—SAME—TESTS UNDER ACTUAL WORKING CONDITIONS NECESSARY.
   Held that the junior party has failed to carry his burden of proving actual reduction to practice, since an actual test under normal operating conditions was called for and the hand operated tests which were performed do not answer that need for a machine intended as a power operated device able to withstand 24 hour a day operation, or a five year life.
4. APPEAL TO THE U. S. COURT OF CUSTOMS AND PATENT APPEALS—INTERFERENCE—APPEAL BY WINNING PARTY.
   Where the losing party in an award of priority takes no appeal from the Board decision, *Held* that the court is without power to affect that decision and will not, at the instance of the winning party, do the useless thing of considering the Board's grounds for its decision.
5. INTERFERENCE—CONCEPTION OF INVENTION—ESSENTIAL PART OF MACHINE DESIGNED BY ANOTHER.
   Where an essential part of the junior parties' machine was designed by another, *Held* that conception of the machine as an entity could not have been complete until the details of the part were disclosed to the parties.
6. SAME—PRIORITY—ICE MAKING APPARATUS.
   The decision of the Board of Interference Examiners awarding priority of invention of the subject matter defined by all the counts involved in the appeal to appellee is affirmed.

APPEAL from the Patent Office. Interference Nos. 80,398 and 81,217.

AFFIRMED.

Curtis, Morris & Safford, Cameron, Kerkam & Sutton, and *Ralph H. Hudson* (*Loyd H. Sutton, Edward G. Curtis*, and *Charles C. Ladd* of counsel) for Field and Field et al.

Paul Bliven (*Richard R. Trexler* and *Charles L. Sturtevant* of counsel) for Knowles.

JOHNSON, *J.*:

On August 28, 1942, an interference, No. 80,398, was declared by the Primary Examiner in the United States Patent Office between the patent applications of Crosby Field, No. 352,709, filed August 15, 1940, and Frank W. Knowles, No. 262,869, filed March 20, 1939. The single count of the interference related to Field's claim 41 and Knowles's claim 50 which the parties had added to their applications at the suggestion of the Examiner for interference purposes. On February 12, 1943, Knowles moved to dissolve the interference alleging inoperativeness of the Field device. Additionally, Knowles considered the count broader than his invention, and did not believe Field could make a claim reciting a limitation, not present in the count, which Knowles believed essential to operativeness; as a consequence of which Knowles was "cancelling the claim" from his application, and moved for dissolution of the interference, stating that his action was not a concession of priority to Field as to their respective materials. Field's assignee on February 27, 1943, moved to amend the issue in interference No. 80,398 by adding counts drawn from Field's applications Nos. 352,707, 352,708, and a joint application of Field and Stover, No. 352,710, as well as moving to dissolve the interference on the ground that Knowles's disclosure was inoperative. On September 21, 1943, the Primary Examiner ruled on the motions of the parties, denying the respective motions to dissolve, and granting the motion of Field's assignee to bring into the interference the additional applications of Field and Field and Stover as to certain of the proposed counts. On November 17, 1943, the Primary Examiner added to interference No. 80,398 the Field applications Nos. 352,707 and 352,708. Field thus had three applications in interference with the Knowles application with the relationship of the interference counts and claims of the applications being as follows:

Counts	Field Case A (352,709)	Field Case B (352,708)	Field Case C (352,707)	Knowles (262,869)
1	41			50
2		22		51
3			38	52

Also on November 17, 1943, the Primary Examiner declared interference No. 81,217 to exist between the Field and Stover application No. 352,710 and the before-mentioned Knowles application No. 262,869, the relationship of counts and claims being as follows:

Counts	Field et al.	Knowles
1	29	37
2	31	48
3	32	43

Both parties took testimony, each incorporating into a single record the evidence relied upon for both interferences. The cases came on for hearing before the Board of Interference Examiners in the U. S. Patent Office, which rendered its separate decisions on May 28, 1948, awarding in interference No. 80,398 priority of invention as to count 1 to Field, and as to counts 2 and 3 to Knowles. Priority of invention as to all counts in interference No. 81,217 was awarded to Knowles. Knowles entered no appeal as to the adverse ruling on count 1 in interference No. 80,398. Field has appealed from the Board's decision in interference No. 80,398, noting 47 assignments of error, while Field and Stover have appealed from the decision in interference No. 81,217, bringing 35 assignments of error in that case before us.

The appellants' applications in interference were filed August 15, 1940. The appellee's application was filed March 20, 1939. Appellee having filed his application first, the presumption arises that he is the first inventor, *Gallagher* v. *Hien*, 25 App. D. C. 77, and the burden is thus on the appellants as junior parties to establish priority of invention by a preponderance of the evidence, *Anderson* v. *Walch*, 33 CCPA (Patents) 774, 152 F.2d 975, 68 USPQ 215. 584 O. G. 167.

Interference No. 80,398, P. A. 5692

As will appear from the counts, the subject matter involved is refrigerating apparatus wherein liquid frozen on the surface of a flexible metal belt passing over a refrigerated surface is removed therefrom by a flexing of the belt by means provided therefor in the apparatus.

The counts of interference No. 80,398 read as follows:

1. An ice making apparatus comprising an evaporator forming part of a closed refrigerating system and having a refrigerating surface of constant curvature; an endless flexible belt of heat conducting materials; means maintaining a portion of said belt in close proximity to a major portion of said refrigerating surface and causing said portion of the belt to conform in curvature to said surface, said means including an element spaced from said refrigerating surface and presenting a curved surface in contact with the inner surface of the belt; and means for applying water to be frozen to the exterior of the belt; said belt being movable relative to said surfaces and said apparatus being constructed and arranged to hold a quantity of liquid having a freezing point below the lowest temperature to be reached by the operation of said apparatus and to cause the relative movement of the belt with respect to the refrigerating surface to interpose a portion of said liquid in the form of a film between the latter and the portion of the belt conforming thereto in curvature and to flex the belt across the second mentioned curved surface to break a layer of ice frozen thereto.

2. In refrigerating apparatus, in combination an evaporator having a continuous curved refrigerated surface, an endless flexible belt encompassing said refrigerated surface and contacting a portion thereof, means closing the open sides of said endless belt, deflector means adapted to flex successive sections of said belt out of contact with said evaporator, and a liquid positioned between said belt and said refrigerated surface adapted to keep wet the contacting surfaces thereof.

3. In refrigerating apparatus, in combination, a framework, a refrigerated member mounted on said framework and having a rigid convexly curved refrigerated surface, an endless flexible metal belt encompassing said refrigerated member and having a greater periphery than said member, means for tensioning said belt against said convexly curved refrigerated surface, means for imparting relative movement between said belt and said surface, and sealing means including an apron extending from said belt and including means extending from said framework, said apron and last-named means coacting to seal the space between said belt and said refrigerated surface from the atmosphere.

Count 1 requires an apparatus with a curved evaporator with refrigerated surface; an endless, flexible, movable belt held against that surface by means of a roller urged against the inner surface of the belt, flexing the belt; means for supplying water to be frozen to the belt; and anti-freeze liquid between the belt and evaporator. Count 2 adds means for closing the open sides of the belt. The belt is not required to be movable with relation to the evaporator. Count 3 requires the end closure means to include an apron extending from the belt coacting with the closure means to perfect the seal.

In Field case A (352,709) the metal belt travels over two spaced pulleys and slides over the convex curved surface of a stationary evaporator. Between the evaporator and the belt, an anti-freeze fluid augments the heat transfer relationship between the evaporator and belt as well as diminishes the sliding friction between the surfaces. Liquid to be frozen is spread upon the moving belt as it slides over the evaporator. As the belt passes around the end pulley, the ice is peeled off as the belt makes the sharp turn around the pulley.

In Field case B (352,708) the evaporator is cylindrical. The metal belt passes around the cylinder and is held in contact with a greater portion of its circumferential surface area by means of twin rollers spaced apart from the cylinder and positioned within the encompassing belt so as to contact its inner surface at each end. The rollers are urged against the under surface of the belt at its ends, tensioning the belt around the cylinder. The rollers are mounted on supporting arms keyed to a hub at each side of the drum. These deflector rollers revolve about the axis of the shaft mounting the hubs of their supporting arms, moving first in one direction, then in the opposite direction. The surface of the belt under which the rollers pass is flexed, dislodging the ice which has frozen there. Anti-freeze fluid is introduced between the belt and the cylinder to improve the heat transfer relationship and to lubricate those surfaces. Rubber aprons are attached to the edges of the endless belt and affixed to end panels, thereby sealing the space within the inner surface of the belt as it encompasses the cylinder and the moving spaced rollers from the atmosphere. The belt does not revolve about the cylinder, but portions of the belt surface are flexed and lifted away from the drum surface as the roller arms swing back and forth.

In Field case C (352,707) the belt is pulled over a pair of convexly curved evaporators. These evaporators are mounted in upper and lower relationship, their convex surfaces facing outwardly, and with end pulleys so spaced that the tensioned belt is held in heat transfer relationship against the evaporators. The belt itself is constructed of endless metal panels joined to form a belt by means of rubber strips connecting adjacent edge portions of the panels. These rubber strips extend inwardly into a space provided between evaporator segments. The end pulleys or rollers are built up with spaced rubber bands so that the inwardly projecting rubber strips of the belt ride between them. The metal panel portions of the belt ride against these rubber bands, so that the composite metal belt is tensioned resiliently by the rollers. The metal panel portions of the belt lie in heat transfer relationship against the evaporator segments. Aprons are attached to the outer edges of the composite belt. They extend outwardly to form a connection with end plates in staggered relationship which enclose the ends of the apparatus. A metal band extends around each apron so as to hold it in contact with the end plates. The apron is grooved so as to receive the edges of the end plates. As the belt moves, the aprons slide over the end plate assemblies, sealing off the interior of the apparatus from the atmosphere. Nozzles are positioned in the apparatus above the upper evaporator surface and below the lower evaporator. The liquid to be frozen is sprayed onto the belt as it slides over the evaporators. Ice forms and is peeled off of the belt as it bends when passing over the end pulleys.

The Knowles device comprises a closed revolvable metallic drum into which refrigerant is fed and removed; an endless metal belt placed around the drum in contact with it; a roll positioned a short distance from the surface of the drum, the belt passing over the roll and being held against the greater surface of the drum by the tension received from the roll riding against its inner surface; an additional roll which rides above the first roll but against the outside surface of the belt at the point where the belt urged outward by the inner roller leaves the drum. In this device, the belt lying against the greater part of the drum's surface in heat transfer relationship is turned by friction as the drum revolves. The belt, according to the Knowles application, is made to "track" by "crowning" the drum, roll, or both; by "placing a straight sided bead on the edge of the drum along the edge of the belt," or by "securing to the underside of the belt adjacent to the drum V-shaped guides." Anti-freeze liquid is used between the drum and the belt. Rubber skirts are attached to the edges of the belt and connect to end closure plates sleeved upon the shaft or journal arrangement around which the drum revolves. As the belt revolves, the rubber skirts attached thereto cause the end plates to which they are attached to revolve, effecting a seal of the interior of the apparatus from the atmosphere. Below the drum is a pan filled with water. The drum is positioned so that its lower portion is immersed in the water. As the drum revolves, water adheres to the surface of the belt, freezes upon the belt as it passes over the top of the drum, and the ice is flexed off the belt as it passes under the outside or "breaking" roll and over the inner, outwardly-urging roll. Other arrangements are described, one in which there is no roller within the belt, but three rollers riding against the outside surface of the belt; one of which is power driven so as to cause the belt to arc outwardly between the driving roll and a "braking" or "anchor" roll; another embodiment has a roll spaced apart from the drum and pressing against the inner surface of the belt while two rolls ride against the outer surface of the belt pressing it against the drum at the points where the belt leaves the drum to pass around the tension roll and return to the drum after passing over the tension roll. In each embodiment, means are set forth to seal the interior of the apparatus from the atmosphere.

In his preliminary statement, Knowles alleged conception and disclosure to others of the subject

matter of the counts in June 1938, and reduction to practice in September 1938. The Knowles application, No. 262,869, was filed March 20, 1939. The Board held that the proofs failed to show the operation of a machine satisfying the counts prior to November 1938; that no machine was built, tested, or conceived which had promise of "belt durability" (characterized by the Board as a sine qua non of utility for ice-making machines of this type), prior to Knowles's filing date; that Knowles had accordingly failed to establish conception or reduction to practice prior to that date, March 20, 1939; that while the Knowles machine was not operable to the extent required to show practical utility, his disclosure, as to counts 2 and 3, was nevertheless not inoperative. As to those counts Knowles was restricted to March 20, 1939. Because Knowles had urged that the original count, count 1, was broader than his invention, since he had found that to be operative the apparatus must be sealed off from the atmosphere, the Board held that Knowles, having "admitted and urged" the inoperativeness of "his open machine," could not prevail as to count 1. Knowles's motion to dissolve had attacked the operativeness of Field's device, and Knowles renewed his contentions at the final hearing. The Board held that the Field machine was operative "in the hands of a watchful expert in the art" but impractical in its intended field; that Field was therefore not entitled to a date for actual reduction to practice, but that his disclosure relating to count 1, Field application No. 352,709 (case A), filed August 15, 1940, was operative. Field was accordingly awarded priority as to count 1. Knowles did not appeal from that finding, and the contention raised in his brief before us that the case should be remanded to the Board of Interference Examiners "for clarification of their rulings in respect to" count 1 cannot be considered. Although Field in bringing this appeal before us assigned error to the Board's findings touching count 1 that Field had not made an actual reduction to practice, Knowles is not thereby entitled to have considered here whether or not there was error in that part of the Board's findings touching count 1 wherein the Knowles disclosure was held to be inoperative. Knowles had his right of appeal, and having waived it by inaction, he may not be heard to challenge the disputed findings now.

In his preliminary statement, Field alleged that the first drawing and written description of the subject matter of counts 2 and 3 were made February 12, 1938, with disclosure to others on February 14, 1938, and reduction to practice in the latter part of March 1938. The Board awarded Field March 2, 1939, as the date of conception, but held that the invention had never been reduced to practice, and that Field had not exercised due diligence throughout the critical period just prior to Knowles's filing date down to Field's own filing date. Field, the junior party, was thus restricted to his filing date, August 15, 1940, for a constructive reduction to practice, and the Board awarded priority of invention as to counts 2 and 3 to Knowles, the senior party, who had filed his application on March 20, 1939.

In his notice of appeal, Field set out 47 assignments of error (reasons of appeal) relating to the Board's decision. Of those, assignments 1 to 14, inclusive, are directed to the Board's decision touching upon count 1 and are concerned primarily with the Board's holding that Field had not actually reduced his Type S machine, embodying the elements of count 1, to practice. Although that decision restricted Field to his filing date, August 15, 1940, it was sufficient to award him priority of invention over Knowles on the Board's finding that the latter's disclosure was inoperative. Assignments 15 to 24, inclusive, are substantially concerned with the Board's decision relating to counts 2 and 3 that although Knowles's machine was not sufficiently operable so as to justify a finding of actual reduction to practice, his disclosure was not inoperative and he was entitled to his filing date for conception and constructive reduction to practice. Assignments 25 to 32, inclusive, are directed to the Board's conclusion of law that the operativeness of a disclosure in an application must be evaluated on a different basis than conception and actual reduction to practice. Under that view of the law, the Board had held Knowles's disclosure operative so as to merit his filing date for conception and reduction to practice of the subject matter of counts 2 and 3, though his actual machine embodying the subject matter of those counts was held not to be of sufficient practical utility to merit a finding of actual reduction to practice. Assignments 33 to 46, inclusive, are directed to the Board's findings that Field had not conceived the subject matter of counts 2 and 3 until March 2, 1939; that he had not made an actual reduction to practice; that the machine Field relies on as an actual reduction to practice is an abandoned experiment; and that he was not reasonably diligent after a test in May 1939 until his filing date in August 1940. Assignment 47 is a general allegation that the Board erred in awarding priority to Knowles as to counts 2 and 3.

The issues raised by the appellant's assignments of error will be considered in the following order:

I. As a matter of law, is there a different basis for evaluating the standard of operativeness required for a patent application disclosure to be considered operative, and the standard of operativeness required to establish that the disclosure of the application is actually reduced to practice?

II. Did the Board err in holding that as to counts 2 and 3 the Knowles disclosure was not inoperative?

III. Did the Board err in holding that Field had not established conception of the subject matter of counts 2 and 3 until March 1939; that he had not reduced the invention to practice; that his machine relied on for actual reduction to practice was an abandoned experiment; and that Field was not diligent from May 1939 to August 1940?

IV. Did the Board err in holding that Field had not made an actual reduction to practice of the subject matter of count 1 prior to his filing date?

I. The issue of law

The disclosure of an application placed in interference by the Patent Office is presumed to be an operative disclosure, *Mark* v. *Greenawalt*, 32 App. D. C. 253, 138 O. G. 965, and will not be held to be inoperative unless it is established (by the junior party by a preponderance of the evidence, *Trumbull et al.* v. *Kirschbraun*, 21 CCPA (Patents) 758, 67 F.2d 974, 20 USPQ 46, 443 O. G. 567) that it can not be made to operate for any practical or useful purpose, *Mark* v. *Greenawalt*, supra, by such changes and alterations, short of invention, which one skilled in the art would be capable of applying in constructing the device with the disclosure of the specification and the drawings of the application as his guide. *Computing Scale Co.* v. *Standard Computing Scale Co.*, 195 Fed. 508 (CCA 6th, 1912); *Sun Ray Gas Corp.* v. *Bellows-Claude Neon Co.*, 49 F.2d 886 (CCA 6th, 1931); *Robbins* v. *Steinbart*, 19 CCPA (Patents) 1069, 57 F.2d 378, 13 USPQ 118, 421 O. G. 229; *Trumbull et al.* v. *Kirschbraun, supra; Creed et al.* v. *Potts*, 25 CCPA (Patents) 1084, 96 F.2d 317, 37 USPQ 512, 496 O. G. 9. It is unnecessary to establish commercial utility providing the apparatus will operate in the manner described, *Nelson* v. *Hainsworth*, 32 CCPA (Patents) 1025, 149 F.2d 367, 65 USPQ 483, 579 O. G. 143, though an otherwise operative machine has been held lacking in patentable utility where its use in industry would be prohibitive due to the limitations inherent in its nature, *Hartford-Empire Co.* v. *Obear-Nester Glass Co.*, 71 F.2d 539 (CCA 8th, 1934) cert. den. 293 U. S. 625; *Cleveland Punch & Sear Works* v. *E. W. Bliss Co.*, 145 F.2d 991 (CCA 6th, 1944). The capacity to perform in the manner intended, though only in a crude way, is sufficient, *Hildreth* v. *Mastoras*, 257 U. S. 27, 34, 293 O. G. 215; *Williams* v. *Handschiegl*, 18 CCPA (Patents) 1176, 48 F.2d 395, 9 USPQ 186, 410 O. G. 817. The junior party's burden of proof is often carried with evidence of inter partes tests performed of devices built according to the application disclosure, but apparent inoperativeness revealed by such tests may be held to be of little weight where it appears that the testers failed to utilize the skill of the art to rectify the difficulties whence stemmed inoperativeness. *Krasnow et al.* v. *Bender*, 36 CCPA (Patents) 723, 170 F.2d 560, 79 USPQ 78, 617 O. G. 624. Failure of the junior party to build and conduct an inter partes test of his opponent's device may be fatal to his contention of its inoperativeness. *Lavin* v. *Pierotti*, 29 CCPA (Patents) 1235, 129 F.2d 883, 54 USPQ 400, 545 O. G. 6.

Where either of the parties seeks to establish conception and reduction to practice prior to his filing date, the conception and disclosure to others required is the inventor's completed thought expressed in such clear terms as to enable those skilled in the art to which the invention pertains to make, compound, build, or practice the device, compound, apparatus, or process which constitutes the subject matter of the invention. *Standard Cartridge Co.* v. *Peters Cartridge Co.*, 77 Fed. 630, 647 (CCA 6th, 1896); *Rowe* v. *Holtz*, 19 CCPA (Patents) 970, 55 F.2d 468, 12 USPQ 234, 419 O. G. 295. To constitute an actual reduction to practice of a machine, the device must be completed in an operative form capable of successfully demonstrating its practical utility in its intended field of use. *Ocumpaugh* v. *Norton*, 25 App. D. C. 90, 115 O. G. 1850; *Van Auken* v. *Cummings*, 18 CCPA (Patents) 1250, 49 F.2d 490, 9 USPQ 157, 411 O. G. 277. Unless the device is of such a nature that by its very simplicity its practical operativeness is manifest, *Mason* v. *Hepburn*, 13 App. D. C. 86, 89, 84 O. G. 147, the machine must be tested under actual working conditions, *Smith* v. *Nevin*, 22 CCPA (Patents) 748, 73 F.2d 940, 23 USPQ 353, 452 O. G. 469, in such a way as to demonstrate its practical utility for its intended purpose, *Sydeman* v. *Thoma*, 32 App. D. C. 362, 373, 141 O. G. 866; *Feldmeier et al.* v. *Mojonnier*, 25 CCPA (Patents) 1158, 97 F.2d 124, 37 USPQ 729, 496 O. G. 852, beyond probability of failure, *Taylor* v. *Swingle*, 30 CCPA (Patents) 1219, 136 F.2d 914, 58 USPQ 468, 556 O. G. 716. Actual performance is required of the function for which the machine is intended with a quality, extent, and character of operation sufficient to indicate its utility in the environment in which it is contemplated to be useful. *Lavin* v. *Pierotti*, supra; *Steenstrup* v. *Heath*, 25 CCPA (Patents) 981, 986, 95 F.2d 514, 517, 37 USPQ 205, 208, 494 O. G. 472; *Van Auken* v. *Cummings*, supra. Thus, in the case of an ice-making machine, it must appear from the tests relied upon to establish actual reduction to practice that the machine operated for a sufficient length of time to demonstrate continued and adequate production of ice, *Nelson et al.* v. *Campbell*, 25 CCPA (Patents) 749, 756, 92 F.2d 974, 978, 35 USPQ 524, 529, 489 O. G. 675, manifesting the practical utility of the machine for the field in which machines of that type are utilizable. If the volume of ice produced, the durability of the parts, or the expense of the machine and its operation are such as to militate against practical consideration of the machine as commercially useful, the burden of proving actual reduction to practice has not been carried. This is not to say that perfection for commercial use is required. Cf. *Van Cleef* v. *Tierney*, 28 CCPA (Patents) 1039, 118 F.2d 911, 49 USPQ 274, 530 O. G. 8.

[1] Conceivably, evidence brought forward by a senior party in an unsuccessful attempt to prove actual reduction to practice might be successfully relied on by the junior party in his attempt to overcome the presumption of operativeness attaching to the senior party's application disclosure. If that evidence were sufficient to establish in a clear and convincing manner that the senior party's device could not be made to operate even with such modification and alteration short of invention as would

occur to and be made by a person skilled in the art genuinely interested in making the device operate, the junior party would be entitled to prevail. *Manhattan Book Casing Mach. Co.* v. *E. C. Fuller Co.*, 274 Fed. 964, 967 C. C. S. D. N. Y. 1912). On the other hand, it is possible that a senior party's evidence on the subject of actual reduction to practice would be insufficient to establish that fact and carry his burden of proof, while being equally insufficient to support the junior party's contention that the senior party's device is inoperative. We agree with the Board that the alleged inoperativeness of the senior party's disclosure here must be evaluated on a basis different from conception and reduction to practice. See *Mark* v. *Greenawalt*, *supra*. A senior party might be unable to prove conception and actual reduction to practice due to his failure prior to his filing date to bring to an operative state a machine showing practical utility for its intended purpose, without justifying the conclusion that the junior party has carried his burden of proving by a preponderance of the evidence that the disclosure of the senior party's application could not be made to operate successfully under the application of the representative skill in the art.

II. Alleged inoperativeness of Knowles's device

The Board held that "a Knowles closed machine corresponding to his disclosure would operate for about a few days making ice and this, while not sufficient to show practical utility within the intended purpose, is * * * sufficient to hold that inoperativeness of the Knowles disclosure as to counts 2 and 3 is not proved." That finding we think to be well supported by the testimony of the following witnesses:

Frank Knowles testified that a closed end machine (K–9) was completed circa November 1938 and operated making ice at the rate of 150 pounds of ice per hour "for several months continually"; that a machine, K–10, basically the same as K–9 but modified as to the idler roll, operated that same month producing ice at the rate of 150 pounds per hour; that the machine modified as per drawing K–11 operated "over several weeks" making ice at the same rate, but that the life of the stainless steel belts used on the machine through these modifications was about four days; that a closed end machine utilizing instead of an inside deflecting roller, outside rollers, one friction driven and one braked, so as to deflect outwardly the flexible belt, operated in the winter of 1938 producing ice at the rate of 150 pounds per hour, running from three to seven hours a day "throughout each week." It appears that the closed end machines referred to by Knowles consisted of the same evaporator drum and tank, with various modifications of packing gland, idlers, and rubber aprons being used throughout the course of the experiments. It appears from Knowles's testimony, for all of its many discrepancies, that a machine corresponding to counts 2 and 3 was operated successfully producing flaked ice for a period of several days at least.

Robert G. Zener, draftsman and engineer salesman from 1935 to 1941 in the employ of the firm of which Knowles was manager, testified that a machine constructed along the lines depicted in drawings K–9 and K–10 was operated for several months beginning about the middle of November 1938, improvements and changes being made during that time; that drawing K–11 depicts a chipped ice machine after its construction; that the first closed end machine made by Knowles "made ice over a protracted period" though "it wasn't satisfactory."

George Wilson, assistant manager of a dairy in Seattle, the site of Knowles's activity, testified that in November 1939 he witnessed a Knowles ice machine operate and produce ice, which "could have been as much as a hundred pounds" per hour, though he watched it operate but a half hour, and could recall little about the construction of the machine save that "there was a belt."

James Dan Knisely, a graduate mechanical engineer, intermittently in the employ of Knowles's firm from December 1937 until February 1943, testified that he worked on Knowles's ice machine "in the winter of '38 or the spring of '39" as a draftsman; that he made the drawing K–11 in December of 1938 or the spring of 1939; that Knowles had an ice machine in operation "all day long" making ice one day prior to the date he commenced the drawing, because he took notes and made sketches for drawing K–11 from time to time while the machine was operating that day. Knisely described that machine as having a rotating drum, a flexible metal belt, anti-freeze "inside of the metal belt," and end "discs" mounted on the shaft holding the drum and bonded to the metal belt by rubber sheeting.

Richard C. Walther, shop superintendent of Knowles's firm, testified that a machine corresponding to the K–9 and K–10 drawings operated, made a considerable amount of ice, and could be operated "a week at a time continuously" near the first of the year 1939, and that ice was delivered to a fish company who would haul it away in "four, five or six big fish boxes."

Bert Conover, a refrigeration workman employed at Knowles's firm from 1934 to 1940, testified that he worked on the Knowles ice machine; that "success of part of it came when we did enclose the ends before we ever really got to any continuous operation"; that the first closed end machine with anti-freeze operated probably for three days, making ice, "three or four hundred pounds an hour," which was "piled up on the floor" and not weighed; that the first belt lasted no longer than three or four days, "and after improving the belt we ran it quite a number of days." Some of the ice produced was given to fish companies and some to dairies. Mr. Conover testified that he did most of the assembling and running of the machine; that it was run only in the daytime, and that procedure of running in the daytime and shutting down

at night "kept going on for six months probably after we first got it going, just to make ice whenever we wanted to run it again"; that he couldn't give away all of the ice, so he cut a hole in the floor and let the ice go down into the basement.

Lloyd R. Graves, chief engineer of Knowles's firm, and in its employ since 1936, testified that work on the first Knowles closed end machine was completed and the machine in operation in October 1938; that the machine was operated intermittently until January 1, 1939; that it was operated "until we got a stock of ice high enough that we had to get rid of it somewhere"; that "lots of times we would operate until the stock on the floor was so high that we had to stop the machine and get rid of the ice; that "considerable" ice was made before December 1938.

It sufficiently appears from the record that the closed end machine described by the foregoing witnesses conforms to the terms of counts 2 and 3.

Field contends that Knowles's disclosure is inoperative because in actual operation the Knowles machine "destroyed" the flexible belt. That destruction resulted, Field contends, because of "fatal defects" in the machine: failure of the belt to "track" on the rotating drum; crinkling of the belt resulting from the flexing of the belt by the deflector roller and the driving of the rotatable end closure plates by the apron connecting the plates and the belt; the "overhang" of the belt with respect to the evaporator drum and the deflector roller, which, when coupled with the "drag" of the apron connected to and "driving" the revolvable end closure plates tended to bend the edges of the belt as well as pull the rubber apron itself loose from its connection to the belt. Field and certain of his witnesses when shown the Knowles application drawings predicted that belt failure would result in the manner in which the evidence of Knowles's experiments later revealed they actually did occur. Field appears to be a pioneer in the flexible heat transfer surface art, beginning his work in that field in 1919, and being "intimately connected" with its development since that time. Field's witness Lachmann, who testified as to the theoretical inoperativeness of the Knowles disclosure, had fourteen years' experience in that line. Those men are experts in the art of utilizing flexible belts in ice making. While Knowles was apparently well qualified in the refrigeration art generally, his first experiments in the field of using flexible surfaces in ice making seem to be in connection with the early developmental work in 1938 resulting in his patent application here in suit. Throughout his testimony and that of his employee witnesses, it appears that Knowles had little faith in proceeding along theoretical lines, such as predetermining the stresses and strains to which the flexible belts and aprons used in his device would be subjected, or preparing detailed layouts or blueprints after which his machine would be constructed. His faith appears to have laid solely in the procedure of building a machine and belt, and operating it until the belt wore out or broke, and then beginning anew with the benefit of the knowledge gained from the previous experiment. The record reveals unending activity by Knowles in modifying his machine, particularly the union of belt ends, the union of belt and rubber apron edges, and the arrangement of reflector rollers in a search for a machine which Knowles would consider suitable to market without the necessity of frequent servicing. The work on Knowles's machine was largely done in the shop of the firm he managed by men not skilled in the flexible belt art using for the most part fairly rough sketches for guidance.

In the cross-examination of Knowles, conducted by counsel for Field on December 4, 1945, the following testimony appears:

518. XQ. And the stainless steel belt that we saw out there that had deformations in it, over what type of deflecting roller was it run?
A. That was operated over several different types of rollers. * * *
519. XQ. Such as shown in Knowles Exhibit K-11?
A. Yes.
520. XQ. Is that the only type of deflecting means that you used on that particular belt?
A. All that is important to this trial, I am sure.
521. XQ. What other types?
A. Oh, I have made any number of different type rolls in an effort to get the machine to a point where I can put it out commercially and know that it will operate for a number of years.
522. XQ. When you say "a number of years," five years?
A. Five years.

Previously, on June 15, 1944, during the taking of testimony on behalf of Field, the witness Stover testified on direct examination, as follows:

Q. 610. Can you tell what the life of the flexible cylinder on the HRB machine would be?
A. It would be at least five years, that is continuous operation.

The Board held that "for a machine to have practical utility to the public, belt life should be of the order of one to five years or better," and added that "While a five or even one year test would not be necessary it is considered reasonable and necessary that tests of the structure purporting to establish reduction to practice should show not only that ice was produced but that the belt had promise of durability."

[2] To say, as we do, that the Board was correct in holding that Knowles and his men (who from the record do not affirmatively appear to be skilled in the flexible heat transfer service art at all) did not succeed in reducing to actual practice Knowles's inventive concept is not to say that the evidence of that failure affirmatively establishes that a skilled flexible heat transfer surface artisan could not without the exercise of invention construct an operative device from the Knowles application disclosure. The only evidence of record of any actual attempts to practice Knowles's disclosure is that put in by Knowles himself in his effort to establish actual reduction to practice prior to his filing date. That evidence while insufficient to demonstrate the longevity of operation required for a commercially practical device, did establish that a machine conforming to Knowles's disclosure and counts 2 and 3 did operate and successfully produce ice for an extended period of time. That defects remained whose solution was a condition precedent to successful marketability of the device

does not of itself satisfy the burden resting upon Field in alleging inoperativeness to establish by a preponderance of the evidence that an artisan could not by making such modifications as his skill would lead him to make in a genuine effort to practice the Knowles disclosure construct a device which would operate with practical utility.

The testimony of Field, Lachmann, and Stover upon being shown enlargements of the Knowles application drawings was generally that the device there depicted would not "operate continuously," was not "commercially practicable," or was "impractical" because when in operation various of the relationships (of belt to drum, belt to roller, belt to apron to end closure plates) there depicted, as well as various of the expedients described in the Knowles specification to assist the belt in "tracking" (such as "crowning," "beading" the edge of the drum, and using V-shaped guides on the under side of the belt) would reduce the life of the flexible belt. Implicit in that testimony, however, was an acknowledgement that a machine built according to the Knowles disclosure would operate somewhat. Field himself introduced no evidence of any effort he had made to construct and operate a machine after the Knowles disclosure. Field did testify that tests were conducted under his direction running flexible belts over crowned rollers, as well as trying the other methods mentioned by Knowles to cause the belt to "track," which tests "were never successful with the metal subjected to the type of stress in the Knowles operation." These were not shown to be inter partes tests, but were apparently performed by Field ex parte. He made no test of the Knowles machine, nor did he introduce evidence bearing on whether the device was inoperative in the hands of a person skilled in the flexible belt art genuinely interested in making the machine operate under the bona fide application of the skill of the art. It will not do for Field to point to Knowles's failure to accomplish an actual reduction to practice and say that a fortiori the device was inoperative in the hands of an artisan. We think Field has failed to carry his burden of proving by a preponderance of the evidence that the Knowles disclosure is inoperative in the hands of a person skilled in the art. Furthermore, we think that the evidence put in by Knowles in an effort to establish actual reduction to practice, while inadequate for that purpose, does affirmatively establish that his device will operate, imperfectly but satisfactorily, and this strengthens the presumption that his disclosure is operative.

III. Field's alleged conception, reduction to practice, and diligence relating to counts 2 and 3

The Board awarded Field conception of a vertical machine (the VRB) satisfying counts 2 and 3 as of March 2, 1939, on the basis of working drawings (Exhibit F–25) completed that day. The Board found that the VRB machine was constructed March 18, 1939, but held that a 5-day test commenced March 23, 1939, did not establish actual reduction to practice. The VRB was then adapted to the horizontal, designated the HRB, and operated on April 10 and 11, 1939. The Board held that actual reduction to practice had again not been demonstrated, and found that after some desultory activity the project was dropped. Though Field's conception was earlier than Knowles's, having failed to reduce his conception to practice, and forsaking diligence, Field was restricted to his filing date, and Knowles was awarded priority as to counts 2 and 3.

Field contends that he conceived the subject matter of counts 2 and 3 in May 1938, with actual reduction to practice established by the VRB and HRB machines in March and April 1939. He relies on a drawing of the "HS 1708" machine, begun May 15, 1938, and completed June 1938 for proof of his conception. One drawing of the set, 38031 (Exhibit F–18), depicts the device illustrated by Figures 4 and 5 of Field case C, is dated May 28, 1938, and is advanced by Field as "complete proof of conception." It is stated, however, in Field's brief that "The machine of these drawings differs materially from the machine (VRB-HRB) as reduced to practice, but has all of the elements of the counts." The HS–1708 machine was never built. Field's brief indicates that the machine had disadvantages: "Its cost was high for water ice"; "It could not run submerged"; "It did not meet York's [licensee of Field's assignee] commercial requirements." It is clear from the record that there was neither actual reduction to practice nor diligent activity in endeavoring to reduce to practice the device depicted as HS–1708. The only date to which Field would be entitled as a date of invention of the subject matter of counts 2 or 3 insofar as he relied on the HS–1708 would be his filing date in case C as a conception and constructive reduction to practice.

From January 16 to 26, 1939, the working drawings for Field's VRB–1132 machine were completed (Exhibit F–22). Drawings depicting alternate designs for the evaporator drum of the VRB–1132 were completed January 27–28, 1939 (Exhibit F–24). These represented a simplification of the structure shown in Exhibit F–22. Those drawings (F–22 and F–24) were placed before the licensee of Field's assignee on February 2, 1939. The next day Field instructed his employee Stover to "start layout" of a smaller VRB machine. Drawings (Exhibit F–25) of the smaller VRB were completed on March 2, 1939. A machine was built in accordance with those drawings and photographed. It was a simplification of the previous VRB drawings: all refrigerant stuffing boxes were eliminated and one end of the machine "greatly simplified" so that it could be fastened securely to the frame of the machine, reducing the strength and number of parts required. It was this simplified concept of the VRB machine which Field set out to reduce to practice. So far as the record reveals, the earlier concepts of VRB (Exhibits F–22 and F–24) never progressed beyond the conference of February 2, 1939: no effort was made to embody them in an actual machine. Bids requested from manufacturers were, according to Field's brief, high. Plainly Field may not rely on the original VRB drawings (F–22 and F–24) for conception. There was neither actual reduction to practice nor any diligent endeavor to reduce that early concept to practice. Those drawings may not be relied upon by Field to establish a date of invention prior to his filing date.

Was Field successful in his efforts to reduce the concept depicted by his F–25 drawings to practice? After the drawings were completed on March 2, 1939, little time was lost in constructing the machine. Work had begun even before the full set of drawings was completed. The machine was assembled by March 9, 1939, but difficulties arose with the aprons and the deflecting rollers' tension means. On March 23, 1939, a five day test of the machine was begun under the supervision of Field's employee Stover. On March 28, 1939, Stover wrote a memorandum report to Field concerning the test. During the test the deflecting rollers (which in operation rotated 360° flexing the belt or cylinder as they turned) were operated by hand by means of a crank attached to the drive shaft. During the test the water feed failed due to pump trouble. Refrigerant was applied throughout the five day period. The purpose of the five day test according to Stover, Field's employee in charge, was to determine whether the seal between the belt or cylinder and the evaporator drum was tight so that moisture from the atmosphere was excluded. According to Stover, that was determined "by making ice on the machine when it was first set up and determining the rate of heat transfer and making ice again at the conclusion of the test, checking that we had no falling off of the heat transfer rate." The deflection roller was operated "intermittently by hand," "one or two times a day over a period of maybe two or three hours." Anti-freeze was not used between the evaporator and the flexible belt or cylinder during this test. On April 4, 1939, the machine was turned from its vertical operating position and adapted to a horizontal operating position. Field considered it advantageous to operate the machine in its vertical position when freezing water, but in a horizontal position when freezing material other than water, such as fruit juices, milk, cream, eggs, etc. The HRB (the VRB when in a horizontal position) was tested April 8, 1939, with the deflecting rollers being turned by hand intermittently while the water feed mechanism was lifted out of the feed position by hand as the crank actuating the deflecting rollers was turned. Ice was produced. Anti-freeze was used between the flexible cylinder and the evaporator. The rollers were operated by hand, both in an oscillating and rotating manner. On April 12, 1939, coffee, tea, and orange juice were frozen on the machine (HRB). The machine was operated for thirty minutes on April 15, 1939, producing ice, as a result of which the tester, Stover, estimated the capacity of the machine at 1,600–1,700 pounds of ice per day "after giving effect to remedies." During that test, the deflecting roller was turned by hand every 1½ minutes "to harvest the ice formed."

It appears from the testimony of Field that when the deflecting roller of the HRB is rotated, the flexible belt or cylinder "tends to travel in the direction of the deflecting roller arm, and after having travelled to the limit provided by the slack in the aprons * * *, then slips back, and from that time on creeps, so that there is a sliding action while it is held at that limit."

Subsequent to the tests of the HRB machine, drawings were made (Exhibit F–65) beginning May 29, 1939, and completed July 1, 1939, which, according to Stover, "were laid out to incorporate our best ideas on the HRB type machine at the time." That machine was to be known as the HRB 1212. The capacity of the HRB was to be one ton, and Stover was to design a 2½-ton and 5-ton machine, and arrange to send drawings out for bids on the three sizes of HRB machine.

It appears from Stover's testimony on cross-examination that a proposed drive mechanism for the VRB-HRB machine, to consist of a hydraulic cylinder and rack structure, was never assembled, though some parts were purchased for it after the tests, because "the type FRB machine interposed there and took precedence over this work." The Board correctly held that "The work upon the FRB machine which took precedence over the VRB-HRB machine can be of no benefit to Field as to counts 2 and 3" because "Field as to counts 2 and 3 is a sole inventor whereas the FRB machine is the subject matter of the companion interference wherein it is the joint invention of Field and Stover." Field does not dispute the finding that the FRB was the product of the joint effort of Field and Stover, and, indeed, relies on it for a reduction to practice of the subject matter of interference No. 81,217.

[3] The Board held there was no reduction to practice of the VRB-HRB machine because it was not power operated, nor operated over a prolonged period. We fully agree with the Board that the showing of practical utility for the machine's intended purpose required for actual reduction to practice demanded that the machine be operated for a prolonged period of time under power-driven conditions in order that the life of the belt and aprons as well as the practicability of the feeding apparatus be ascertained with sufficient certainty as to establish the probable success of the device as a commercial machine. The creeping of the belt on the evaporator when the deflecting rollers were rotated would tend to keep the rubber aprons under a condition of strain. Whether the rubber aprons could perform their function adequately could only be established by tests under full and normal operating conditions covering a sufficiently lengthy operating period. As for the flexible belt itself, the central object of the search for a practical machine was satisfactory belt life. Intermittent hand operation would not reveal whether the belt or the aprons could withstand the stress and strain

The decision of the Board of Interference Examiners awarding priority of invention on counts 2 and 3 in interference No. 80,398 to Knowles is affirmed.

Interference No. 81,217, P. A. 5693

The subject matter of this interference is required by the counts to be comprised of a rotating evaporator drum; a flexible belt larger than and encompassing the drum; means for tensioning the belt around the drum; and means for closing the ends of the belt. The counts read as follows:

1. In a heat transfer device: a heat transfer drum: an endless imperforate belt, said belt being longer than the circumference of said drum, and being placed around and in contact with said drum; means for tensioning said belt around said drum; means for rotating said drum and driving said belt; and means closing the end openings of said belt for forming therewith a closed chamber; and a liquid in said chamber and in contact with said belt and drum, which liquid will remain liquid at the operating temperature in the device.

2. In a refrigeration device: a rotatable heat transfer drum; an endless imperforate belt, said belt being longer than the circumferenec of said drum, being placed around and in contact with said drum, and being movable with said drum; end means closing the end openings of said belt; and means for refrigerating said drum by evaporation therein of a refrigerant.

3. In a heat transfer device: a heat transfer drum; supporting trunnions for said drum; means for supplying to and removing from said drum through one of said trunnions a heat exchange medium; an endless imperforate belt, said belt being longer than the circumference of said drum, and being placed around and in contact with said drum; end plates mounted on said trunnions and opposed to the ends of said drum; a stretchable medium secured between and to the edges of said end plates and belt; said trunnion, stretchable medium, and end plates closing the end openings of said belt for forming with said belt a closed chamber; a tensioning roll placed inside of said chamber, and outside of and parallel to said drum; means supporting said roll on said trunnions and in contact with said belt for tensioning said belt; and means for rotating said drum by rotating one of said trunnions.

Knowles relies on the same apparatus and activities considered in the companion interference. Field and Stover attack the operativeness of the Knowles disclosure in the same manner as there discussed.

For the reasons developed at length in interference No. 80,398, P. A. 5692, we concur in the Board's finding that Knowles is entitled to his filing date, March 20, 1939, for his date of invention of the subject matter of this interference, the counts of which read upon the closed end machine disclosed in Knowles's application. Likewise, the contention of Field and Stover that Knowles's disclosure is inoperative is overruled for the reasons stated with respect to Field's similar contention in the companion interference.

Appellants alleged in their preliminary statement conception of the subject matter of the counts on February 12, 1938, with reduction to practice in March 1940, which, being subsequent to Knowles's filing date, placed appellants under the burden of proving conception prior to Knowles's filing date and reasonable diligence down to their subsequent reduction to practice, actual or constructive.

The Knowles disclosure is described in the companion interference.

The application of Field and Stover, No. 352,710, discloses a cylindrical evaporator drum, horizontally disposed and driven by a shaft. The drum is encompassed by an endless flexible belt, larger in diameter than the drum. Reflecting rollers at each end of the drum mounted on supporting arms sleeved to the drum drive shaft and connected by a shaft extending between the rollers, are positioned between belt and drum, tensioning the belt into contact with the drum surface. The evaporator drum rotates, driving the belt by friction and flexing it over the deflecting rollers. The position of the deflecting rollers is maintained constant by counterweights. The edges of the flexible metal belt are connected by means of rubber aprons to rotatably mounted end "bells" or plates of a diameter approximating that of the endless metal belt. The end closure "bells" seal off the interior of the apparatus from the atmosphere. Propylene glycol is used between the drum and belt surfaces as a heat transfer medium and lubricant. The drum is positioned partially within a vessel to be filled with water so that water is fed to the surface of the belt as the drum rotates, freezing as the belt travels over the top of the drum, and flexing off as ice as the belt passes over the upwardly projecting deflecting rollers.

Appellants contend that conception of the subject matter of counts 1, 2, and 3 "culminated" on September 15, 1938, in a sketch accompanied with a description (Exhibit F–32) made by Stover of an evaporator drum with refrigerant inlet and outlet pipes entering the interior of the rotatable drum through the center shaft. The drum is depicted as bound at both ends to end bells or plates joined to the drum shaft by a threaded union as well as by integrating pins. Field testified that as the end bells rotate "they carry with them the drum." Stover testified that the sketch and description disclosed a device which was the result of the joint endeavor of himself and Field. Appellants had no rotating evaporator available when Stover made his sketch (Exhibit F–32), and Stover testified that the York Ice Machinery Corporation "had to develop the rotating evaporator."

There was an arrangement between York and Flakice (the assignee of the Field and Field and Stover applications) whereby "York was to build a rotating evaporator of the type DER and Flakice was to have the use of this evaporator in a development of the RSB [FRB] machine." Exhibit F–33 is a letter dated December 19, 1939, from York (signed by one Raver) to Stover at Flakice enclosing layout prints "showing the details of the evaporator, shaft and seals as used in our [York's] experimental machine." Stover testified that the prints were sent to him so that he "might incorporate the DER evaporator in a machine of the Type RSB [FRB] which we were to build as soon as possible." The evaporator itself was subsequently shipped to Flakice and incorporated into the RSB [FRB] machine. In January 1940 Stover made drawings (Exhibit F–37) incorporating the York evaporator design into the RS machine. Stover testified that a machine was never built with end bells fixed with relation to the evaporator [as depicted in his sketch (Exhibit F–32)]; that before the machine was built, the end bells were changed

of power operation under the prolonged operating conditions which appellant's witness Stover described as often requiring twenty-four hour a day operation. If a probable life of from one to five years is a requisite for commercial practicability when the flexible belt used by Knowles is under scrutiny, it is likewise a test to which Field ought to conform in endeavoring to establish actual reduction to practice. The evidence of the brief hand operated tests offered by Field is insufficient to show any particular probable belt or apron life. Field has failed to carry his burden of proving actual reduction to practice.

The fact that Field failed to complete the VRB-HRB by installing the power-drive mechanism, and that he turned to the higher priority FRB machine development after the April 1939 tests warrants the finding of the Board that Field was wanting in diligence during the critical period in reducing his March 2, 1939, VRB-HRB concept to practice. That Field instructed Stover to complete designs and procure bids for the HRB 1212 as well as the 2½ and 5-ton counterparts thereof may indicate Field's satisfaction with the April 1939 tests, but it is not persuasive in determining whether the HRB had real practical utility for its intended purpose under normal operating conditions. Nor does it constitute diligence in testing and perfecting the machine for such purpose. An actual test under normal operating conditions was called for: the hand operated tests do not answer that need for a machine intended as a power operated device able to withstand 24 hour a day operation, or a five year life.

IV. Field's contention relating to actual reduction to practice of the subject matter of count 1

There remains the contention of Field that the Board erred in holding that the subject matter of count 1 had not been actually reduced to practice prior to his filing date. The Board held that Field was entitled to the date of February 2, 1938, for conception of count 1 on the basis of drawings (Exhibit F–8) bearing that date. A machine, known as the Type S, was constructed from those drawings in April 1938. It was an open end machine employing anti-freeze (glycerine at first; propylene glycol later) between the evaporator surface and the flexible belt. Because of various difficulties connected with the nature of that open end machine, the Board concluded that "the type S machine would operate to make ice in the hands of a watchful expert in the art but in the intended small ice field of utility it was impractical." The Board therefore held that Field was not entitled to a date of actual reduction to practice prior to his filing date, but that his disclosure was operative. Since the Board had held that Knowles's disclosure relating to count 1 was inoperative, he had nothing on which to rely in contesting priority of invention, and Field's disclosure being held operative, the Board awarded priority to Field without the necessity of considering whether or not Field was diligent during the time between his date of conception and his filing date. Knowles took no appeal from the award of priority of count 1 to Field. Field in his appeal, despite his uncontested award of priority as to count 1, has, however included 14 reasons of appeal directed to the Board's findings and conclusion that Field's Type S machine was "impractical," required a "watchful expert in the art," and was not an actual reduction to practice of the subject matter of count 1.

Is this a matter to which the court should give its attention?

R. S. 4904, 35 U. S. C. 52, confers jurisdiction upon the Board of Interference Examiners "to determine the question of priority of invention."

R. S. 4911, 35 U. S. C. 59*a*, entitles any party to an interference "dissatisfied with the decision of the Board of Interference Examiners" to appeal to this court.

R. S. 4912, 35 U. S. C. 60, requires the party taking the appeal to "give notice thereof to the Commissioner, and file in the Patent Office * * * his reasons of appeal, specifically set forth in writing."

R. S. 4914, 35 U. S. C. 62, confers jurisdiction on this court to "hear and determine such appeal" and to "revise the decision appealed from in a summary way," confining itself "to the points set forth in the reasons of appeal."

[4] Field's notice of appeal states that he "gives notice to the Commissioner of Patents of his appeal to the U. S. Court of Customs and Patent Appeals from the decision of the Board of Interference Examiners, rendered on or about the 28th day of May, 1948, *awarding priority of counts 2 and 3* of the invention to Frank W. Knowles * * *." [Italics added.] This then is Field's appeal—from the decision of the Board awarding priority of invention on counts 2 and 3 to Knowles. It is this appeal for which he must set forth his specific reasons of appeal. The fourteen "reasons of appeal" directed to the Board's findings relating to count 1 which Field included among the 47 reasons of appeal set forth in his notice of appeal must be overruled as pertaining not only to a part of the Board's decision from which no appeal was taken, but also as pertaining to a count on which the appellant has been awarded priority by the Board. No decision of the court on the matters touched by those fourteen reasons of appeal could possibly change that award of priority. As said by the court in *Harris* v. *Henry*, 20 CCPA (Patents) 883, 887, 63 F.2d 120, 122, 16 USPQ 442, 445, 431 O. G. 6, "unless the question of priority be involved, this court would have no jurisdiction to entertain the appeal, since, in an interference proceeding, priority is our sole concern." The appellee Knowles having taken no appeal from the award of priority of invention of the subject matter of count 1 to Field, that decision is final and incontestable between the parties. The court is without power to affect that decision, and will not do the useless thing now of considering the Board's grounds for its decision on an issue which is moot. *Shellaberger* v. *Schnabel*, 10 App. D. C. 145, 79 O. G. 339.

to free turning. The F–37 drawings were revised in April and May 1940 so as to change the end bells from fixed to freely rotating. From those revisions (drawings, Exhibit F–31), the FRB machine was constructed.

It appears from the record that small ice machines of the type involved in the interference, which are designed for use in stores, restaurants, and the like, must use a Freon refrigerating system, as municipal regulations and fire insurance rules prevent the use of ammonia. The use of Freon presents particular problems: "it has to be maintained at a high velocity in order that any oil from the compressor system may be carried with it and not dropped out"; the passage carrying the refrigerant must be designed in proportion to the specific volume of Freon refrigerant; and improved stuffing box or gland seals are required to seal in the Freon. Rotating evaporators, moreover, present the particular problem of preventing the oil carried by the refrigerant from being deposited on the inner surface of the evaporator, as the oil acting as a heat insulator would tend to retard the effectiveness of the evaporator.

York and Flakice were working together on the development of small-sized ice machines, and Field testified that "York devoted its attentions primarily to the rotating evaporator and the evaporator questions and Flakice to the belts"; and that the DER development, the rotating Freon evaporator, was developed by York engineers. York experienced trouble in developing the Freon evaporator, particularly in designing the rotating gland to seal the Freon in the drum, and in getting uniform coverage of the Freon evaporating into gas all along the inner evaporator surface.

Field's invention notebook at page 1770 (Exhibit F–6) contains a rough sketch and accompanying description dated October 23, 1939, entitled "A modification of the H. R. B. Type (R. S. type?)" depicting, inter alia,

1. Revolving Evaporator
2. Stationarily supported Revolving deflection Roller
3. Flexible cylinder
4. Revolving Endbells to which cylinder aprons are attached.

Those elements as well as a fifth relating to a trunnion assembly for introducing gaseous refrigerant into the evaporator drum are all present in the Field and Stover application disclosure. When asked the circumstances of making that October 23, 1939, disclosure, Field testified as follows:

> The DER evaporator troubles seemed to be getting to a close so that we would have from York in the very near future after that date a rotating type of evaporator, and with this rotating type of direct expansion evaporator it was time to go ahead faster on the alternate development of ours which called for the belt around the rotating evaporator. So that is why I started out working on details like this of October 23, 1939 * * *.

On October 26, 1939, a conference was held, attended by Field and Stover, at which it was decided that "ECS [Stover] will start sketches of R. S. type FI machine (see C. F.'s and FI N. B. p. 1770) showing alternate constructions, including amongst others his idea of weight suspended deflecting roller structure, and upon discussion of these he will start detailed design."

Drawings (Exhibit F–36) of the RS machine were prepared in November 1939 by Stover. On December 14, 1939, a conference was held between York and Flakice representatives at which the decision was made "that Stover should start the designs of an RS machine which would be based upon the DER evaporator drum." The RS became known as the FRB, the distinction between the two being, according to Field, that "In the RS the end bells were so fixed to the shaft that they had to turn on the evaporator drum," whereas "in the FRB they could be operated independently of the joining of the drum." In the RS construction, the flexible belt was caused, because of the fixed end bells, continuously to slip with respect to the evaporator drum.

After York was successful in building a rotating evaporator, it was patented in the name of the engineer who developed it. Patents to Raver, No. 2,308,541, issued January 19, 1943, on a December 7, 1939, application; No. 2,344,922, issued March 21, 1944, on a January 13, 1941, application.

[5] It is apparent from the record that Field and Stover were unable to complete the design for their rotating drum evaporator ice machine until York developed the rotating evaporator and furnished layout details to them. Because of the difficulties inherent in a rotating evaporator, and in particular with one in which Freon refrigerant was to be used, York's development required time. Actual layout prints of the successful evaporator were not sent Field and Stover until December 19, 1939. Only when the details of that evaporator design were incorporated into the drawings prepared by Stover in January 1940 (Exhibit F–37) was there disclosed a complete concept of an ice-making machine, responding to the interference counts, in such detail as to enable one skilled in the art to construct an operative counterpart. It is evident that Field and Stover were unable to design the rotating evaporator itself. That being an essential part of the machine, conception of the machine as an entity was not complete until December 1939 or January 1940 at the earliest. Previous to that time, the idea of a flexible belt ice machine consisting in part of a rotating evaporator was, insofar as the evaporator was concerned, merely posing a problem for solution rather than a complete concept sufficiently detailed so as to enable an artisan guided by the disclosure of that concept, successfully and without invention on his own part, to make the machine.

The conception required as an element of invention is the formation in the mind of the inventor of a definite and permanent idea of the complete and operative invention as it is to be applied in practice, *Burson* v. *Vogel*, 29 App. D. C. 388, 131 O. G. 942—the mental process must have been completed and brought to a point where reduction to practice can begin, where invention stops and construction begins. *Townsend* v. *Smith*, 17 CCPA (Patents) 647, 36 F.2d 292, 4 USPQ 269, 391 O. G. 753. It is not sufficient that the result to be obtained be conceived, but it is required that there be conceived and disclosed the means provided to accomplish that result, *Land* v. *Dreyer*, 33 CCPA (Patents) 1108, 155 F.2d 383, 69 USPQ 602, 590 O. G. 6.

Here both Field and Stover acknowledged that the rotating evaporator had to be designed by York, and until York made the drawings of the successful evaporator, there could be no finished concept of the ice machine in which the rotating evaporator was to be an essential part. After the layout of the rotating evaporator was received from York, Stover had to design a machine so as to incorporate and accommodate the design of the evaporator into it. There was no finished concept from which reduction to practice could be attempted until January 1940.

The Board held that although Field and Stover may have had definite ideas as to what they wanted to build, they were unable until the York drawings were received in December 1939 to have a definite and permanent idea of the invention as it was thereafter to be applied. The evidence as indicated in the foregoing review thereof adequately supports that finding. The earliest date to which appellants are entitled for conception, December 1939 or January 1940, is subsequent to the date of invention accorded to Knowles on the basis of his application filing date, March 20, 1939, for a constructive reduction to practice. [6] It follows that the decision of the Board awarding priority of invention as to all counts of the interference to Knowles must be, and is, affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

B. W. HARRIS MANUFACTURING CO., INC.

v.

WERBER SPORTSWEAR CO.

WERBER SPORTSWEAR CO.

v.

B. W. HARRIS MANUFACTURING CO., INC.

Nos. 5706, 5712. Decided June 30, 1950

[183 F.2d 105; 86 USPQ 408]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—"ZERO-LAND" AND "ZERO KING."

Considering the marks as a whole, since the only similarity between them resides in the word "zero," which cannot be appropriated by any applicant for use on cold weather clothing, *Held* that the clear difference in the last portion of the respective marks renders them so dissimilar that likelihood of confusion will not arise.

APPEAL from Patent Office. Trade-Mark Cancellation No. 4732.

AFFIRMED.

Howard A. Rosenberg (*W. R. Liberman* of counsel) for Harris Manufacturing Co.

William F. Nickel for Werber Sportswear Co.

WORLEY, *J.*:

These are appeals in trade-mark cancellation proceedings from the decision of the Commissioner of Patents (Daniels, Assistant Commissioner), 78 USPQ 268, reversing the decision of the Examiner of Interferences sustaining a petition of appellant (B. W. Harris Manufacturing Co., Inc.) to cancel the registration of the trade-mark "ZEROLAND," registration No. 417,878, owned by appellee (Werber Sportswear Co.). The cases were submitted on the same record and were briefed and argued together. Accordingly, we shall dispose of the two appeals in one decision.

The cancellation proceeding was initiated against two registrations of appellee, one of which had expired prior to the institution of this proceeding, namely, Registration No. 186,326. The Examiner, therefore, properly dismissed the petition as to that registration.

Appellant based its right of action upon prior use of its trade-mark "ZERO KING," as applied to FUR, SHEEP, LEATHER, AND TEXTILE CLOTHING—NAMELY, COATS FOR MEN, WOMEN, AND CHILDREN. Appellant had used its mark on its goods since September 1, 1916, and the mark was duly registered December 23, 1930, Registration No. 278,514, under the Trade-Mark Act of February 20, 1905.

The trade-mark "ZEROLAND" was registered on November 20, 1945, for use on "MEN'S OUTDOOR LEATHER AND CLOTH LINED JACKETS AND COATS; MEN'S OUTDOOR SHEEP-LINED JACKETS AND COATS; LADIES' OUTDOOR CLOTH JACKETS AND COATS; LADIES' OUTDOOR SHEEP-LINED JACKETS AND COATS; MEN'S AND WOMEN'S CLOTH AND SHEEP-LINED JACKETS, FLYING JACKETS AND FLYING SUITS FOR OUTDOOR AND SPORTS WEAR. This mark was sought to be cancelled by reason of prior use of the mark "ZERO KING," as applied to merchandise possessing the same descriptive properties.

In his decision, the Examiner held that the marks of the parties bore such close resemblance as to be likely to cause confusion in trade.

The Commissioner of Patents disagreed with the reasoning of the Examiner of Interferences and held that the marks of the parties had different meanings and that such difference was strengthened by a prominent display of a crown in the mark "ZERO KING" and a pictorial suggestion of cold inherent in the mark of appellee. The Commissioner further held that "While there is some similarity in sound and appearance between the words, this results only from the common use of the word 'zero,' which has a suggestive significance in connection with the products of the parties, * * *."

We are in agreement with the holdings of the Commissioner. It is difficult for us to see how the word "zero" could be appropriated for exclusive use by any applicant with respect to clothing designed to be used in cold weather. Moreover, there

is a distinct difference in sound, spelling, appearance, and meaning of the words "land" and "king."

Considering the marks as a whole, since the only similarity between them resides in the word "zero," we are of opinion that the clear difference in the last portion thereof, hereinbefore noted, renders the entire marks so dissimilar that likelihood of confusion will not arise in their concurrent use by the parties.

Prior to the decision of the Commissioner, appellee moved that the case be remanded to the Examiner of Interferences for the taking of additional testimony to show that appellant was not chargeable with laches or acquiescence. This motion was denied by the Commissioner and, in view of our conclusion, it is not necessary for us to consider this point.

For the reasons hereinbefore stated, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,073,873, C. A. Binger, Mailing device with reply members, filed Sept. 19, 1950, D. C., S. D. N. Y., Doc. 61/54, *The Reply-O Products Co.* v. *The American Home Magazine Corp. et al.*

2,108,727, K. S. Rogers, Mop, filed Sept. 28, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1362, *Artmoore Co. et al.* v. *Dayless Mfg. Co., Inc., et al.*

2,116,516, 2,160,862, 2,210,241, Re. 21,696, 2,245,585, A. F. Bickman, Vehicle springs suspension, D. C., W. D. N. Y. (Buffalo), Doc. 4635, *Twin Coach Co.* v. *Erbco, Inc., et al.* Order dismissing complaint Sept. 22, 1950.

2,133,482, Scuderi & Callari, Covering metal buckles, filed Sept. 22, 1950, D. C., S. D. N. Y., Doc. 61/72, *B. Scuderi et al.* v. *J. Williams et al.*

2,139,413, H. Kreidel, Joint for pipes; 2,171,217, same, Metal packing ring for use with screwed pipe joints or couplings, D. C., S. D. Ind. (Terre Haute), Doc. 413, *The Weatherhead Co. et al.* v. *Bicknell Screw Machine Products.* Dismissed Sept. 5, 1950.

2,160,862. (See 2,116,516.) 2,171,217. (See 2,139,413.)

2,177,352, R. R. Dupler, Illuminated globe mounting, filed Sept. 29, 1950, D. C., N. D. Ohio (Toledo), Doc. 6426, *The George F. Cram Co., Inc.* v. *R. R. Dupler.*

2,210,241. (See 2,116,516.)

2,219,568, W. R. Stewart, Electrical product, filed Sept. 19, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12293-Y, *W. R. Stewart* v. *United Industrial Supply Co., Inc.*

2,228,192, A. F. Arthur, Process of treating potatoes for shipment, C. C. A., 4th Cir., Doc. 6051, *American Potato Dryers, Inc., et al.* v. *F. C. Peters.* Decree affirming judgment of district court Sept. 13, 1950.

2,245,585. (See 2,116,516.)

2,327,163, E. L. Barrett, Radio antenna, filed Sept. 29, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27734, *Radelco Mfg. Co. et al.* v. *Ward Products Corp.*

2,455,857, J. E. Donaldson, Holder, filed Sept. 27, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27722, *Donaco Plastics Corp. et al.* v. *Allied Stores Corp. et al.*

2,462,480, A. H. Eppler, Polishing method and apparatus, appeal filed Oct. 2, 1950, C. C. A., 4th Cir. (Richmond), Doc. 6175, *Vapor Blast Mfg. Co. et al.* v. *Pangborn Corp.*

2,478,188, G. M. Gibson, Method of and apparatus for washing fabrics, D. C., N. D. Ill. (Chicago), Doc. 50c702, *G. M. Gibson* v. *Carson, Pirie, Scott & Co. et al.* Consent judgment holding patent valid and infringed; injunction Sept. 26, 1950.

2,495,003, F. J. Haas, Taping machine, filed Sept. 29, 1950, D. C., N. J. (Trenton), Doc. 733/50, *Bozart Machine Co., Inc.* v. *Universal Corrugated Box Machinery Corp.*

2,512,995, J. Berger, Stroller having removable chair; 2,516,774, L. Gottfried, Convertible high chair, filed Sept. 26, 1950, D. C., E. D. Pa. (Philadelphia), Doc. 11404, *Stroll-O-Chair Corp.* v. *The Westmoreland Metal Mfg. Co., Inc., et al.*

2,516,774. (See 2,512,995.)

2,519,883, 2,519,884, A. O. Bustanoby, Magnetic figure toy; Des. 159,707, J. V. Zimmerman, Toy dog, filed Sept. 19, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1310, *Jay V. Zimmerman Co.* v. *E. J. Kahn & Co.*

2,519,884. (See 2,519,883.)

2,520,658, Rheem & Patterson, Method of galvanizing cylindrical tanks, counterclaim filed Sept. 22, 1950, D. C., S. D. N. Y., Doc. 52/385, *Hotpoint, Inc.* v. *Rheem Mfg. Co.*

Re. 21,696. (See 2,116,516.)

Des. 137,701, R. J. Brown, Airplane, filed Sept. 28, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1365, *The Simonis Co.* v. *House of Gloss et al.*

Des. 158,692, W. Rosenthal, Brassière, filed Sept. 26, 1950, D. C., S. D. N. Y., Doc. 61/104, *Maiden Form Brassiere Co., Inc.* v. *Exquisite Form Brassiere, Inc.* Same, D. C., N. D. Ill. (Chicago), Doc. 50c1347, *Maiden Form Brassiere Co., Inc.* v. *Aragon Hosiery Shop.*

Des. 159,707. (See 2,519,883.)

NOTICES

Rejection of a Divisional Case on the Ground of Double Patenting

Where the Office requires division and thereafter rejects either the parent or the divisional application upon the one which has been allowed, that is, rejects one of the cases on the ground of double patenting, the applicant quite properly feels that he has been unjustly treated. The number of instances in which this has occurred appears to be unduly large. After the Office has required division, such rejection should not be made unless it is clearly justified.

In order to promote uniform practice in this respect, every action containing a rejection on the ground of double patenting of either a parent or a divisional case where division has resulted because of a requirement to divide made by the Office, must be submitted to the Supervisory Examiner of Classification for approval prior to mailing. When the rejection on the ground of double patenting is disapproved, it shall not be mailed but other appropriate action shall be taken.

A. W. CROCKER,
Executive Primary Examiner.

November 1, 1950.

Classification Bulletins Nos. 381 thru 388

The Classification Bulletins containing the definitions of the following patent classes, completed as amended through Classification Order No. 52 of August 30, 1950, are now available and may be obtained from the Commissioner of Patents at the prices indicated.

Class	Title	Bulletin No.	Price
109	Safes, Bank Protection and Related Devices	381	$0.10
126	Stoves and Furnaces	382	.25
155	Chairs and Seats	383	.20
160	Closures, Partitions and Panels, Flexible and Portable	384	.30
206	Special Receptacles and Packages	385	.10
211	Supports, Racks	386	.15
220	Metallic Receptacles	387	.15
311	Supports, Tables	388	.10

Adjudicated Patents

(C. A. Ohio) Brohard Design Patent No. 146,895, for a shirt, *Held* invalid. *Cavu Clothes* v. *Squires, Inc.*, 184 F.2d 30; 86 USPQ 506.

(C. A. N. C.) Arthur Patent No. 2,228,192, for a process of treating potatoes for shipment, *Held* invalid. *American Potato Dryers* v. *Peters*, 184 F.2d 165; 86 USPQ 499.

(C. A. Ohio) Brohard Patent No. 2,428,198, for a garment, *Held* invalid. *Cavu Clothes* v. *Squires, Inc.*, 184 F.2d 30; 86 USPQ 506.

Disclaimers

2,383,784.—*Alfred W. Fleer*, San Francisco, Calif. COPPER AMMONIUM ACETATE EXTRACTION AND PURIFICATION METHOD. Patent dated Aug. 28, 1945. Disclaimer filed Oct. 21, 1950, by the assignee, *Shell Development Company.*

Hereby disclaims from claims 1, 2, 3, 4, 5, 6, and 10 any method covered by said claims except wherein the removal of the polymers from the lean solution is effected by washing said solution, after exposure to conditions causing polymerization of the acetylenes present therein, with liquid aliphatic hydrocarbons having 4 to 10 carbon atoms, said washing being effected in a zone which is separate and distinct from that in which the hydrocarbon mixture is contacted with the copper ammonium acetate solution for the selective absorption of the butadiene;

and further disclaims from claims 7, 8, 9, and 13 any method covered by said claims wherein the washing of the lean solution, after exposure to acetylene polymerization conditions, is not effected in a zone separate and distinct from that in which the hydrocarbon mixture is contacted with the copper ammonium acetate solution for the selective absorption of butadiene.

2,400,791.—*William A. Tolson*, Westmont, and *Waldemar J. Poch*, Moorestown, N. J. CATHODE-RAY TUBE SYSTEM. Patent dated May 21, 1946. Disclaimer filed Oct. 25, 1950, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claim 1 of said patent.

2,462,027.—*Goodrich K. Murphy*, New Canaan, Conn. RAILWAY SLEEPING CAR. Patent dated Feb. 15, 1949. Disclaimer filed Oct. 20, 1950, by the assignee, *The Budd Company.*

Hereby enters this disclaimer to claim 4 of said patent.

2,468,243.—*Percy L. Spencer*, West Newton, Mass. ELECTRON DISCHARGE DEVICE. Patent dated Apr. 26, 1949. Disclaimer filed Oct. 20, 1950, by the inventor; the assignee, *Raytheon Manufacturing Company*, assenting.

Hereby enters this disclaimer to claims 7, 8, 11, and 12 of said patent.

2,485,016.—*John Gordon Rideout*, Chagrin Falls, Ohio. INVALID WHEEL CHAIR. Patent dated Oct. 18, 1949. Disclaimer filed Oct. 30, 1950, by the assignee, *Gendron Wheel Company.*

Hereby enters this disclaimer to that part of the claims in said specification which is in the following words, to wit:

"An invalid chair comprising a pair of laterally spaced side frames, each side frame having front and rear uprights, a seat rail associated with each side frame, vertically disposed rod members, sleeve members for slidingly receiving said rod members respectively, means for mounting one of said members on the frames and the other of said members on said seat rails, and pivoted brace means connecting said side frames whereupon said side frames may be collapsed toward each other and the sleeve and rod members slide relatively to each other."

2,506,730.—*Frank A. Morris*, Rochester, N. Y. PRIVATE BRANCH EXCHANGE TRUNK-HUNTING CONNECTOR SWITCH CIRCUIT. Patent dated May 9, 1950. Disclaimer filed Oct. 19, 1950, by the assignee, *Stromberg-Carlson Company.*

Hereby enters this disclaimer to claims 1, 2, and 3 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,521,008. TELEVISION AND SOUND MULTIPLEX SYSTEM. Patented Sept. 5, 1950. Reg. No. 38,868.

Pat. 2,521,009. TELEVISION SYSTEM. Patented Sept. 5, 1950. Reg. No. 38,869.

These two patents relate to the synchronization of scanning devices and other television apparatus. Broadly described, a cathode ray tube is associated with a transmitter having an image screen toward which an electron ray is directed. A line generator includes a scanning device which produces line saw-toothed waves, the intervals of which are controlled by synchronizing pulses. A frame generator is provided with a second scanning device which produces controlled frame saw-toothed waves. The line and frame waves cause the electron ray to scan successive frames on the screen, producing picture signals representative of a scene. The first scanning device has an arrangement under control of the frame pulses to produce additional line synchronizing pulses which reduce the interval of the first line saw-toothed waves in alternate frames to cause the ray to scan odd and even lines in alternate and intermediate frames on the screen. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—62.

Pat. 2,521,010. TELEVISION SYSTEM. Patented Sept. 5, 1950. Transmitter comprises several image screens each provided with a filter and adapted to be excited by light rays of a different color. Portions of the light rays are reflected toward the mirrors from a scene within view of the transmitter to produce a partial image on each screen in accordance with separate colors in the scene. The filters include horizontal and vertical image alignment markers which form a part of the images on each screen as well as an arrangement to produce picture signals representative of the image on each screen. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—62. Reg. No. 38,870.

Pat. 2,505,323. COMBINED BABY COACH, BABY WALKER, AND PARCEL CARRIER. Patented Apr. 25, 1950. Detachable parcel carrier is used in combination with a baby stroller or a similar children's vehicle. The parcel carrier has a base which consists of an extension of the straddle board of stroller. Wire mesh sides and rear wall are attached to the base to form a basket or carrier, which is fitted between the rods of the upward-extending handle of stroller and fastened to rear of child's compartment. (Owner) John J. Geiger, 4201 Willys Parkway, Toledo, Ohio. Groups 33—49; 39—43. Reg. No. 38,871.

Pat. 2,304,854. RECORD CARD SYSTEM. Patented Dec. 15, 1942. Generally described, this patent relates to a card system in which pertinent information is recorded in a series of index columns of a card blank by punching elongated slots so as to leave only a single "bridge" in each column. The "bridges" correspond to items of different information recorded in accordance with a predetermined code. Further features of the system make possible the segregation of cards containing desired information without the necessity of special tabulating machines; automatic punching of information on the cards; and alignment of the cards with the punching dies, etc. (Owner) The Rapidata Corporation, 31 Gibbs St., Rochester 4, N. Y. Group 35—71—79. Reg. No. 38,872.

Pat. 2,429,444. GRAPPLE. Patented Oct. 21, 1947. Device for removing articles from wells, pipe lines, etc. A U-shaped spring metal body has inwardly curved ends to which article graspers are removably secured. Base of body is apertured to slidably receive a control rod the movements of which are controlled by spaced stop pins. Co-acting leaf hinges attached to legs of body form a latch. Grapple is lowered into cavity by cable attached to upper end of rod. As rod passes through body, the spring members become disengaged and the graspers are urged toward each other to grasp an article. (Owner) Philip R. Yett, Administrator of Estate of James Yett, Box 803, Lynch, Ky. Groups 33—52; 35—69. Reg. No. 38,873.

Pat. 2,297,954. TIRE CASING SPREADER. Patented Oct. 6, 1942. Spreader is used to spread a section of the casing of a heavy tire apart for inspection, etc. A tire may be rolled onto the spreader so that it will rest in upright position on rollers. Pivoted hooks carried by a pair of spaced upright spreader arms secured to a pair of overlapped slides are then swung over beading of tire. A long hand lever is swung downwardly to cause a toggle to move the slides in opposite directions and spread the arms apart. When the lever passes dead center, it automatically locks to hold the arms apart. The lever forms an integral part of one of the toggle links. Spreader is adjustable to accommodate a wide variety of sizes of tires. (Owner) Thomas Gorselancyk, Route 1, Box 394, Sumner, Wash. Groups 33—52; 38—31. Reg. No. 38,874.

Pat. 2,497,692. POWDER COMPACT. Patented Feb. 14, 1950. Compact minimizes the possibility of powder coating a mirror carried by its hinged cover. A powder box, fixed inside the compact above a removable powder puff, has a dispensing opening in the bottom covered by a hinged valve plate extending beyond the front end of the box. When compact is open, the valve may be conveniently swung from side to side to dispense powder downwardly onto puff. (Owner) Mrs. Rose Schulfer, Route 4, Box 236, Stevens Point, Wis. Groups 34—51; 39—72. Reg. No. 38,875.

Pat. 2,452,371. HANDLE BAR SHOCK ABSORBER. Patented Oct. 26, 1948. Shock absorber reduces the vibratory strain transmitted to a rider through the handle bars of a bicycle or the like. The handle bars are hingedly supported on a forwardly offset support, turnably mounted in the steering head of the standard bicycle frame. A coil spring is resiliently held within a sleeve and cup structure carried by the outer portion of a stem that depends from the support. Hinged connecting rods are interposed between the sleeve and handle bars. The shock absorber may be held in an inactive position by a locking ring arrangement. (Owner) Joseph P. Guttormsen, 6520 21st Ave., Kenosha, Wis. Group 37—41. Reg. No. 38,876.

Pat. 2,517,481. SKI POSITIONING MEANS FOR AIRPLANES. Patented Aug. 1, 1950. Ski positioning unit for light planes includes resilient means to hold a ski in normal position, yet allow it limited movement during take-offs, landings, or taxiing over rough snowy surfaces. The resilient means consist of a plurality of shock cord bands encircling the upper ends of two vertically disposed pillars to normally hold the pillars in parallel relationship. One of the pillars is fixedly secured to a tubular supporting axle of the unit. The other pillar is fixedly secured to a tubular ski axle mounted for limited rotation on the tubular supporting axle. The ski axle is fixedly secured to a ski. The unit may be substituted for the wheel of a plane by securing its tubular supporting axle against rotation on axle of plane. (Owner) Herbert G. Hager. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Group 37—22. Reg. No. 38,877.

Pat. 2,514,584. HEAD WASH UTENSIL. Patented July 11, 1950. Utensil is especially adapted for washing the hair of invalids or bedridden patients. The utensil is substantially oblong with a rounded front wall that includes a top rearwardly sloping drain portion having a concaved center that forms a headrest and drain channel. The rear wall has a forwardly inturned flange that functions as a splash guard. All water used in the washing operation is held in the bottom of the utensil. (Owner) Mary Muth. Correspondence to Robert R. Anderson, 127 North Dearborn St., Chicago 2, Ill. Groups 33—71—73; 34—41; 39—91. Reg. No. 38,878.

Pat. 2,511,412. MOTOR GENERATOR. Patented June 13, 1950. Motor-generator comprises a stator having a stationary armature inside mounted on a fixed shaft extending axially through stator, and a hollow rotor surrounding the armature bearingly mounted on the same shaft. Rotor pole means secured to exterior of rotor project radially outwardly with windings on the outer ends connected to commutator means on exterior of rotor. Inner pole magnets on interior of rotor are provided with inner windings. Rotary brushes on interior of rotor engage a stationary commutator connected to windings of armature. Rotary conducting means on exterior of rotor are connected to the rotary brushes and to the inner windings. (Owner) George M. Myrmirides, 193 Flatbush Ave., Brooklyn, N. Y. Group 36—19. Reg. No. 38,879.

Pat. 2,494,301. GROOVED GAME BOARD AND DISKS FOR SAME. Patented Jan. 10, 1950. Game board has two sets of intersecting grooves which run diagonally to each other. Circular chips or disks are rolled in the grooves on alternate plays (or otherwise moved, for example, according to the throw of a pair of dice). The object of the game is for a player to pass all his chips to the other side of the board, or prevent his opponent from winning by obstructing the intersection with a chip. By so doing the opponent is prevented from moving beyond that point. The first player unable to move any of his chips is the loser. (Owner) L. W. Lowe, Sr., 1025 Dermon Bldg., Memphis, Tenn. Groups 39—41—49; 40. Reg. No. 38,880.

Pat. 2,519,707. COMBINATION FERTILIZER DISTRIBUTOR AND WATERING CAN. Patented Aug. 22, 1950. Device may be used as a hand-operated dispenser for fertilizer, etc., or used as a watering can. It comprises a container having a delivery outlet in its tapered lower end adjustably controlled by a valve. A slidable rod extending through braces and a sleeve-like hub of an agitator has its lower end connected to the valve. The upper end of the rod protrudes through the top of a bail handle of container to enable the rod to be turned for adjusting the valve. Delivery conduits are provided for connection to the delivery outlet of the container. (Owners) Arthur Schaffer and Philip Rieck, New Jersey State Colony, New Lisbon, N. J. Group 35—22. Reg. No. 38,881.

Pat. 2,210,943. SEWING MACHINE NEEDLE THREADER. Patented Aug. 13, 1940. Reg. No. 38,882.

Pat. 2,214,306. NEEDLE THREADER AND PRESSER FOOT. Patented Sept. 10, 1940. Reg. No. 38,883.

These two patents show threaders for automatically threading a needle of a sewing machine. One is combined with usual presser foot of sewing machine. The thread is placed in an opening of threader, and needle lowered through the opening. A trigger of threader is manually set in cocked position to cause a threading pin to move and press a loop of thread into usual groove of needle above the eye. Needle is then raised so that, when eye of needle registers with end of threading pin, threader will automatically force pin and loop of thread through eye, grip and hold loop stationary after it has passed through eye, and then retract pin to permit the threaded needle to continue its upward stroke and clear threader. If operator neglects to lower needle, trigger cannot be set in cocked position. (Owner) Mrs. J. C. Lounsbury, 1417 N St., N. W., Apt. 706, Washington 5, D. C. Groups 33—73; 35—83; 40.

Pat. 2,515,252. COMPOSITE BY-PASS VALVE AND FLUID TRANSITIVE APPLIANCE. Patented July 18, 1950. Automatic gas-pressure regulator is combined with a rotary plug valve assembly for installation in a pipe line as a unit so that the regulator may be removed for inspection and repair without disconnecting the valve from pipe line. The regulator is detachably connected as a bonnet to the neck of the plug valve casing. The plug valve may be set in three different positions. In one position it permits regulator to function in usual manner. In its second position it by-passes the flow of gas past the regulator so that regulator may be removed without any interruption to service, although the gas pressure would then be unregulated. In its third position it prevents gas from entering the valve casing and regulator. (Owners) Edward Niederer, Jr., and Otto J. Hegedus. Correspondence to Edward Niederer, Jr., 342½ North 2nd St., Montebello, Calif. Groups 33—66; 35—65. Reg. No. 38,884.

United States Government Owned Patents

The following U. S. Letters Patent and applications for Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number or serial number and title.

Pat. 2,521,891. VALVE. Patented Sept. 12, 1950. This patent relates to a valve for a high speed centrifuge or other rotating device which may be opened or closed without regard to the speed of rotation of the device with which it is associated. The valve seat and valve plug are arranged coaxially of, and rotate with, the centrifuge. Group 36—21. Reg. No. 38,885.

Pat. 2,521,894. LOW INDUCTANCE RESISTOR. Patented Sept. 12, 1950. This invention concerns a low resistance, low inductance resistor comprising essentially a single sheet of resistive material having dielectric material between the folds and conductors connected to its ends. The geometric configuration thus formed causes the magnetic field set up by current passing through one portion of the resistor to be in opposition to the field created by the adjacent portion, thereby resulting in negligible inductance. Group 36—19. Reg. No. 38,886.

Pat. 2,521,937. METHOD OF PURIFYING INERT GASES. Patented Sept. 12, 1950. This patent discloses a method for purifying an inert gas by passing the gas over metallic uranium at controlled temperatures. Hydrogen-nonmetal compounds may be removed by heating the inert gas with uranium at a temperature sufficiently high to form

a compound of uranium and the nonmetal and further heating the gas with uranium at a lower temperature to form uranium hydride. Group 28—89. Reg. No. 38,887.

Pat. 2,523,856. RESISTANCE CAPACITANCE NETWORK. Patented Sept. 26, 1950. This patent covers a variable noninductive R. C. filter having resistance and capacitance merged into a single unit with the capacitance distributed evenly along the resistance so as to permit convenient phase shifting for frequency control in an R. C. oscillator. Group 36—19. Reg. No. 38,888.

Pat. 2,523,892. EXTRACTION PROCESS FOR CERIUM. Patented Sept. 26, 1950. In accordance with the invention disclosed in this patent, cerium may be separated from the other rare earth elements and other material associated therewith by extracting it in its tetravalent form from a salted acid solution by means of nitromethane. Group 28—89. Reg. No. 38,889.

Pat. 2,524,379. NEUTRON VELOCITY SELECTOR. Patented Oct. 3, 1950. A neutron velocity selector apparatus is disclosed which utilizes a novel improved rotating shutter and which employs an electronic, photoelectrically controlled means for effecting the activation and deactivation of the associated neutron detection and measuring means following the opening and closing of the shutter. Group 39—11. Reg. No. 38,890.

Pat. 2,524,384. PRODUCTION OF URANIUM TRIIODIDE. Patented Oct. 3, 1950. A process for producing uranium triiodide is disclosed. By reacting uranium metal and iodine vapor at an elevated temperature to form UI_4 and then passing the UI_4 through a lower temperature region while maintaining this region at a relatively low partial pressure of iodine, a simultaneous condensation and shift in equilibrium is effected and UI_3 is produced. Group 28—89. Reg. No. 38,891.

Pat. 2,524,388. SATURABLE CORE TRIGGERED GAP. Patented Oct. 3, 1950. This patent covers an arc gap unit capable of passing a heavy current substantially instantaneously and containing a saturable core as an integral part of the unit. Group 36—19. Reg. No. 38,892.

Pat. 2,524,692. SCALING CIRCUIT. Patented Oct. 3, 1950. This patent describes a scaling circuit having a scaling stage which will operate on input pulses of positive polarity. Another feature of this circuit is the provision of a pulse-height selector direct-coupled to the first scaling stage, without the use of a circuit having a time constant. Group 36—19. Reg. No. 38,893.

Pat. 2,525,197. THERMAL FLOWMETERS. Patented Oct. 10, 1950. This patent relates to a thermal flowmeter which will measure accurately the mass rate of flow of gases at low pressures and at low rates of flow. Group 36—13. Reg. No. 38,894.

Pat. 2,526,213. PROCESSES FOR PRODUCTION OF MESITYLENE. Patented Oct. 17, 1950. A process is described for producing mesitylene by mixing together the full theoretical quantities of toluene and anhydrous methanol, cooling slightly, adding the cooled mixture to Friedel-Crafts catalyst, heating, and separating the mesitylene so formed. Group 28—89. Reg. No. 38,895.

Pat. 2,526,805. METHOD OF FORMING URANIUM CARBON ALLOYS. Patented Oct. 24, 1950. This invention relates to a method for forming uranium-carbon alloys by heating uranium powder and carbon powder in contact with each other at a temperature in excess of the melting point of uranium. Group 28—89. Reg. No. 38,896.

Pat. 2,526,825. FLUID SELECTING APPARATUS. Patented Oct. 24, 1950. This patent describes an apparatus which may be operated to provide a selecting means whereby any one of a number of lines or gas sources may be connected to a previously selected passage. Group 39—11. Reg. No. 38,897.

Pat. 2,527,320. DEHYDRATION OF ALKALI-METAL ACID FLUORIDES. Patented Oct. 24, 1950. By the method of this patent, water may be removed from an alkali metal fluoride by providing an HF content in the alkali metal fluoride and distilling off a portion of the HF, thereby carrying off the water. Group 28—89. Reg. No. 38,898.

Pat. 2,528,415. PUMP. Patented Oct. 31, 1950. This patent relates to an electromagnetic pump particularly adapted for pumping corrosive, poisonous or noxious fluids which is characterized by electromagnet means situated exterior of a cylinder, capable of simultaneously rotating and reciprocating a piston within the cylinder. Group 35—61. Reg. No. 38,899.

Pat. 2,528,436. STUFFING BOX AND EXPANSION JOINT. Patented Oct. 31, 1950. This patent discloses a stuffing box and expansion joint assembly for a retort containing a rotating shaft arranged so as to permit longitudinal expansion and misalignment of the retort without interfering with the rotation of the shaft or disturbing the gas-tightness of the stuffing box. Group 35—66. Reg. No. 38,900.

Pat. 2,528,454. COATING PROCESS. Patented Oct. 31, 1950. A method is described for depositing boron in the amorphous state and as a compact, essentially non-porous deposit by heating a metal or other base in an atmosphere of a gaseous boron hydride at a temperature range of from 300° C. to 500° C. Group 28—89. Reg. No. 38,901.

Applications for Letters Patent

Ser. No. 157,069. METHOD AND APPARATUS FOR MEASURING RADIATION QUANTITIES. This patent application describes a compact dosimeter for measuring X-ray and gamma radiation by the use of solutions which undergo a visible color change upon exposure to a predetermined quantity of radiation. Group 36—92. Reg. No. 38,902.

Ser. No. 158,282. GAMMA AND X-RAY DOSIMETRIC METHOD. This patent application concerns a highly stable two-phase liquid system for use in a colorimetric dosimeter for measuring X-ray and gamma radiation. Group 36—92. Reg. No. 38,903.

Ser. No. 184,304. PORTABLE RADIATION SURVEY INSTRUMENT. This patent application discloses an improved circuit which reduces the response time of a radiation measuring device utilizing an ionization chamber. Group 36—92. Reg. No. 38,904.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 21, 1950

[VOL. 640. NO. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 525,739. GORDON K. WOODARD, doing business under the firm name or style of Basic Supplements Co., Los Angeles, Calif. Filed July 2, 1947. (Classified in Class 18.)

Applicant's trade-mark consists of an oval panel partially surrounded by a plurality of horizontally disposed parallel lines, said oval panel having a cross centrally disposed thereon, and another panel disposed below said first-named panel and bearing the firm name of applicant—namely, "Basic Supplements Co.," the said last-named panel having a relatively narrow horizontally disposed line extending from either side thereof along the lower border of said last-named panel. Without waiving any common-law rights applicant may have therein, applicant disclaims the words "Basic," "Supplement," "Supplements," and "Co." apart from the other features of the mark.

FOR VITAMIN, MINERAL, AND AMINO ACID COMPOUNDS; LAXATIVES; ANEMIA COMPOUNDS; ANTIHEMORRHAGIC COMPOUNDS; DIGESTIVE-AID COMPOUNDS; AND MEDICINAL PREPARATIONS IN VARIOUS FORMS APPLIED INTERNALLY AND EXTERNALLY FOR TREATING MEMBRANOUS INFLAMMATIONS AND SUPPURATIVE AND INFECTIVE PROCESSES.

Claims use since May 1, 1947.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 517,243. THE EASTERN MALLEABLE IRON COMPANY, Naugatuck, Conn. Filed Feb. 10, 1947.

Applicant owns Registration Nos. 21,059, 41,455, 61,151, 61,290, 380,769, and 437,701.

FOR CHAIN HOOKS, DOOR GUIDES, DOOR HANGERS, DOOR HOLDERS, FERRULES, HANDLE BRACKETS, HANDLES, HINGES, PICKET PINS, ROPE CLEATS, ROPE HOOKS, SCREEN HOLDERS, CHAIN SWIVELS, TOOL HANDLE WEDGES, METAL WASHERS FOR MISCELLANEOUS USE.

Claims use since Apr. 26, 1892.

Ser. No. 525,969. PEPTER A. SPANOS, doing business under the name of Filtair, San Francisco, Calif. Filed July 3, 1947.

FILTAIR

FOR GREASE TRAPPING AND FILTERING DEVICES, USED IN CONJUNCTION WITH COOKING STOVES, EACH DEVICE CONSISTING OF AN INVERTED WIRE-MESH CONE BELOW WHICH A CAN IS SUSPENDED AND THAT, WHEN THE DEVICE IS HUNG BELOW THE VENT OPENING IN THE CANOPY OF A RESTAURANT KITCHEN, IT IS DESIGNED TO PREVENT THE GREASE AND HOT COOKING VAPORS FROM PASSING INTO THE FLUE.

Claims use since May 26, 1947.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 525,739. GORDON K. WOODARD, doing business under the firm name or style of Basic Supplements Co., Los Angeles, Calif. Filed July 2, 1947.

Applicant's trade-mark consists of an oval panel partially surrounded by a plurality of horizontally disposed parallel lines, said oval panel having a cross centrally disposed thereon, and another panel disposed below said first-named panel and bearing the firm name of applicant—namely, "Basic Supplements Co.," the said last-named panel having a relatively narrow horizontally disposed line extending from either side thereof along the lower border of said last-named panel. Without waiving any common-law rights applicant may have therein, applicant disclaims the words "Basic," "Supplement," "Supplements," and "Co." apart from the other features of the mark.

FOR VITAMIN, MINERAL, AND AMINO ACID COMPOUNDS; LAXATIVES; ANEMIA COMPOUNDS; ANTI-

HEMORRHAGIC COMPOUNDS; DIGESTIVE-AID COMPOUNDS; AND MEDICINAL PREPARATIONS IN VARIOUS FORMS APPLIED INTERNALLY AND EXTERNALLY FOR TREATING MEMBRANOUS INFLAMMATIONS AND SUPPURATIVE AND INFECTIVE PROCESSES.
Claims use since May 1, 1947.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 521,046. AKTIEBOLAGET ADDO, Malmo, Sweden. Filed Apr. 21, 1947.

Addo

FOR BOOKKEEPING MACHINES.
Claims use since Aug. 12, 1930.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 507,264. LEYMAN MANUFACTURING CORPORATION, Cincinnati, Ohio. Filed Aug. 12, 1946.

Kodweld

FOR OIL HEATERS, AIR HEATERS, AIR COOLERS, FUEL GAS DUCTS, AND DISTILLATION UNITS.
Claims use since July 30, 1946.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 590,549. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Jan. 9, 1950.

Cromac

FOR CHROME AND VEGETABLE LEATHER.
Claims use since Nov. 3, 1949.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 568,286. TOWN TALK POLISH COMPANY, Manchester, England. Filed Nov. 5, 1948.

TALKETTE

Priority under Sec. 44(d). British application filed Sept. 16, 1948; Reg. No. 672,743.
FOR METAL POLISHES AND POLISHING CLOTHS IMPREGNATED WITH METAL POLISHING MATERIAL, AND CLEANING, POLISHING, SCOURING, AND ABRASIVE PREPARATIONS, FOR SILVER, SILVER PLATE, GOLD, GOLD PLATE, JEWELRY, AND LIKE METAL SURFACES.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 556,473. PERFUMERIA GAL, S. A., Madrid, Spain. Filed May 7, 1948. (Classified in Class 51.)

The portrait of the lady shown is fanciful. The word "Madrid" is disclaimed. Applicant claims ownership of Spanish Registration No. 44,136-a, dated Apr. 10, 1923.
FOR COLOGNES; TOILET LOTIONS; BAY RUM; BRILLIANTINE OR POMADE IN SALVE FORM TO IMPART LUSTER TO THE HAIR; PERFUME; PETROLEUM JELLY; ROUGE IN CREAM, STICK, AND POWDERED FORM; RICE, TALCUM, FACE, AND BODY POWDER; EYE SHADOW AND MASCARA; LIQUID AND POWDERED NAIL POLISH; PASTE, POWDER, AND LIQUID DENTIFRICES; AND CREAM AND LIQUID DEODORANT FOR PERSONAL USE.

Ser. No. 560,332. GOLDBLATT BROS. INC., Chicago, Ill. Filed June 28, 1948. (Classified in Class 18.)

FOR ASPIRIN, BORIC ACID, CAMPHORATED OIL, CASTOR OIL, EPSOM SALTS, GLYCERIN, METHYL SALICYLATE, MINERAL OIL FOR THE ALLEVIATION OF CONSTIPATION, PEROXIDE, RUBBING ALCOHOL, WITCH HAZEL, COD LIVER OIL, AND MILK OF MAGNESIA.
Claims use since Sept. 5, 1936.

Ser. No. 568,535. SCHERING CORPORATION, Bloomfield, N. J. Filed Nov. 10, 1948.

GRAMPOPS

FOR LOLLIPOPS CONTAINING ANTIBIOTIC MEDICATION.
Claims use since Oct. 14, 1948.

Ser. No. 569,859. KANSAS LABORATORIES, INC., New York, N. Y. Filed Dec. 3, 1948.

ARCTIC CIRCLE

FOR ANTI-FREEZE PREPARATIONS.
Claims use since Nov. 20, 1947.

Ser. No. 574,620. INNIS, SPEIDEN & CO., New York, N. Y. Filed Feb. 28, 1949.

COWBOMB

FOR ANIMAL INSECTICIDES.
Claims use since Sept. 10, 1948.

Ser. No. 575,930. THEO. ROSS, doing business as Theo. Ross Associates, Los Angeles, Calif. Filed Mar. 23, 1949. (Classified in Class 18.)

TIMSEN

FOR PREPARATION FOR USE AS A GERMICIDE, DISINFECTANT, DEODORANT, AND STERILIZING AGENT.
Claims use since Oct. 15, 1947.

Ser. No. 579,090. FOOD MACHINERY AND CHEMICAL CORPORATION, San Jose, Calif. Filed May 19, 1949.

POMO-GREEN

Applicant claims ownership of Registration No. 219,597.
FOR PARASITICIDES.
Claims use since Jan. 11, 1935.

Ser. No. 579,091. FOOD MACHINERY AND CHEMICAL CORPORATION, San Jose, Calif. Filed May 19, 1949.

KOLOMENTAL

Applicant claims ownership of Registrations Nos. 224,515 and 246,735.
FOR PARASITICIDES.
Claims use since May 28, 1943.

Ser. No. 580,188. FOOD MACHINERY AND CHEMICAL CORPORATION, San Jose, Calif. Filed June 9, 1949.

C-O-C-S

FOR PARASITICIDES.
Claims use since Mar. 21, 1941.

Ser. No. 581,303. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed July 1, 1949.

FOAMAIZE

FOR CORN PROTEIN TO BE INCLUDED AS AN INGREDIENT IN FIRE EXTINGUISHING PREPARATIONS.
Claims use since June 3, 1949.

Ser. No. 589,540. WEBSEX AIRCRAFT ENGINEERING COMPANY LIMITED, Middle Woodford, Salisbury, England. Filed Dec. 17, 1949.

FOO-MITE

The word "Mite" is disclaimed. Applicant claims ownership of British Registration No. 668,696, dated Apr. 19, 1948.
FOR FUMIGANTS AND INSECTICIDES.

Ser. No. 589,973. HERCULES POWDER COMPANY, Wilmington, Del. Filed Dec. 27, 1949.

HERCOFLEX

Applicant claims ownership of Registrations Nos. 216,366, 297,813, and 351,557.
FOR PLASTICIZER.
Claims use since Dec. 9, 1949.

Ser. No. 590,381. SOCIÉTÉ POUR LA PROTECTION DE L'ÉLEVAGE, Lyon, Rhone, France, filed Jan. 5, 1950.

TIGAL

Applicant claims ownership of French Registration No. 26,050, dated May 24, 1949.
FOR DISINFECTANTS, INSECTICIDES, AND FUNGICIDES.

Ser. No. 590,814. KELCO COMPANY, San Diego, Calif. Filed Jan. 13, 1950.

KELSIZE

FOR ALKALI METAL SALTS OF ALGINIC ACID.
Claims use since Dec. 12, 1949.

Ser. No. 591,329. UNDERTAKERS SUPPLY COMPANY, Chicago, Ill. Filed Jan. 23, 1950.

NUPENTROL

FOR EMBALMING FLUID FOR USE BY UNDERTAKERS.
Claims use since Nov. 22, 1949.

Ser. No. 591,353. THE CELASTIC CORPORATION, Wilmington, Del., and Arlington, N. J. Filed Jan. 24, 1950.

Celastic

Applicant claims ownership of Registration No. 345,214.

FOR SOLUTION OF A CHEMICAL COMPOUND USED TO FORM A FILM OR COATING TO FACILITATE THE REMOVAL OF ADHESIVE COMPOUNDS SUCH AS COLLOID TREATED FABRICS, FORMED IN OR ON A MOLD.

Claims use since Dec. 2, 1949.

Ser. No. 591,489. KOPPERS COMPANY, INC., Pittsburgh, Pa., and New York, N. Y. Filed Jan. 26, 1950. (Sec. 2f.)

Camphocette

Applicant claims ownership of Registration No. 418,171.

FOR REFINED NAPHTHALENE (PLAIN AND SCENTED WITH PERFUME OILS, SUCH AS PINE, ROSE, LAVENDER AND CAMPHOR).

Claims use since December 1918.

Ser. No. 591,534. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich. Filed Jan. 26, 1950.

SPARTEC

FOR GERMICIDAL COMPOSITION FOR DOMESTIC, AGRICULTURAL AND INDUSTRIAL USE.

Claims use since Jan. 10, 1950.

Ser. No. 591,574. MATHIESON CHEMICAL CORPORATION, Baltimore, Md. Filed Jan. 27, 1950.

M-B-W

FOR BOTTLER'S ALKALI, A COMPOSITION OF CAUSTIC SODA AND TRISODIUM PHOSPHATE.

Claims use since Nov. 25, 1949.

Ser. No. 591,867. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Feb. 2, 1950.

KARATHANE

FOR AGRICULTURAL ACARICIDES, INSECTICIDES, AND FUNGICIDES.

Claims use since Jan. 30, 1950.

Ser. No. 591,939. MCGRAW ELECTRIC COMPANY, Elgin, Ill. Filed Feb. 3, 1950.

SILTECT

FOR CHEMICAL COMPOSITIONS TO PREVENT STICKING OF FOOD ITEMS TO THE DEVICES IN WHICH THEY ARE COOKED—NAMELY, CHEMICAL COMPOSITION TO PREVENT WAFFLES FROM STICKING TO THE GRIDS.

Claims use since July 26, 1948.

Ser. No. 592,002. NUODEX PRODUCTS CO., INC., Elizabeth, N. J. Filed Feb. 4, 1950.

AD-IT

FOR MILDEWPROOFING AGENT.

Claims use since Jan. 23, 1950.

Ser. No. 600,220. LIEN CHEMICAL COMPANY, Franklin Park, Ill. Filed July 5, 1950.

DEOCIDE

FOR DEODORANT FOR USE IN TOILETS, URINALS, CUSPIDORS, GARBAGE CANS, ASH TRAYS, SAND URNS, SMOKING EQUIPMENT, AND FOR THE DESTRUCTION OF ALL FOUL ODORS OTHER THAN FOR PERSONAL USE.

Claims use since Aug. 1, 1938.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 589,923. STRATOLITER COMPANY, Kansas City, Mo. Filed Dec. 24, 1949.

STRATOLITER

FOR CIGARETTE LIGHTERS.

Claims use since Nov. 14, 1949.

Ser. No. 595,847. CATHERINE K. MURPHY, New York, N. Y. Filed Apr. 17, 1950.

Bracelite

FOR CIGARETTE LIGHTERS.

Claims use since Mar. 24, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 579,380. OWENS-CORNING FIBERGLAS CORPORATION, Toledo, Ohio. Filed May 21, 1949.

COROMAT

FOR SHEETS OF FIBROUS MATERIAL FOR WRAPPING PIPE AND PIPE LINES.

Claims use since Apr. 11, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 527,245. RICHARDS-WILCOX MANUFACTURING COMPANY, Aurora, Ill. Filed July 5, 1947.

RICH-WIL

FOR ELEVATOR DOOR ACCESSORIES—NAMELY, SLIDING DOOR HANGERS AND DOOR-CLOSERS.

Claims use since September 1928.

Ser. No. 544,027. THE AUTOYRE COMPANY, INCORPORATED, Oakville, Conn. Filed Dec. 11, 1947. (Sec. 2f.)

Clip-On

FOR KITCHEN AND BATHROOM ACCESSORIES—NAMELY, TOWEL BARS AND TOWEL RACKS.

Claims use since August 1938.

Ser. No. 545,150. MUELLER CO., Decatur, Ill., Filed Dec. 22, 1947.

HM

Applicant claims ownership of Registrations Nos. 30,910, 229,813, 231,257, 231,322, and 290,835.

FOR FINISHED BRASS FORGINGS FOR METAL PIPE FITTINGS AND AIRCRAFT PIPE FITTINGS.

Claims use since July 1, 1942.

Ser. No. 550,444. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 24, 1948.

HOMART

FOR GROUP A—SHOWER STALLS, CHEMICAL TOILETS, CLOSET SEATS, SHOWER HEADS, BATHROOM FIXTURES (NAMELY, SOAP RECEPTACLES, TOILET PAPER HOLDERS, TOWEL BARS, TOOTH BRUSH HOLDERS, WATER GLASS HOLDERS), FLUSH TOILETS, LAVATORIES, SINKS, STEEL PIPE AND PIPE FITTINGS, PRESSURE RELIEF VALVES; GROUP B—COPPER PIPE AND PIPE FITTINGS, FAUCETS, HYDRANTS, SINK STRAINERS, VALVES USED TO CONTROL THE FLOW OF WATER AS IN PLUMBING, HEATING, AND IRRIGATION SYSTEMS, TANK FLOATS, SINK AND LAVATORY TRAPS, LAVATORY SUPPLY PIPES, CLOSET SCREWS AND BOLTS; GROUP C—BATHTUBS.

Claims use since Jan. 15, 1946.

Ser. No. 560,027. KEROTEST MANUFACTURING COMPANY, Pittsburgh, Pa. Filed June 23, 1948.

KEROTEST

Applicant claims ownership of Registrations Nos. 159,477 and 218,547.

FOR (1) MANUALLY OPERABLE VALVES AND SELF-ACTING VALVES—NAMELY, GATE, GLOBE, ANGLE, CHECK, THROTTLE, BALL, CHOKE, NEEDLE, AND RELIEF VALVES FOR FLUIDS, FILL AND VAPOR RETURN AND VENT VALVES FOR USE IN FEEDING COMPRESSED GASES FROM ONE PRESSURE CONTAINER INTO ANOTHER, VALVES FOR INSTALLATION ON COMPRESSED GAS CYLINDERS AND OTHER PRESSURE CONTAINERS, AND VALVE MANIFOLDS TO BE CONNECTED TO FLUID LINES; AND FOR (2) FITTINGS FOR PIPE AND TUBE LINES FOR FLUIDS—NAMELY, 'T'S, ELBOWS, CROSSES, UNIONS AND COMPANION FLANGES, CLOSING PLUGS, SAFETY FITTINGS WITH FUSIBLE ELEMENTS, SAFETY FITTINGS WITH FRANGIBLE ELEMENTS, PIGTAILS, BY-PASS CONNECTIONS, ORIFICE FLOW NIPPLES AND ORIFICE BUSHINGS, BOLTS, STUDS, NUTS, METALLIC WASHERS FOR VALVES AND FITTINGS, THREADED OUTLET CAPS, AND ADAPTERS TO FIT TOGETHER CONNECTIONS OF DIFFERENT DIAMETERS.

Claims use since April 1921.

Ser. No. 579,869. WILLIAM J. HAMMOND, doing business as The New England General Store, Millis, Mass. Filed June 2, 1949.

FOR TRIVETS, FOOTSCRAPERS, DOOR KNOCKERS, DOORSTOPS, WROUGHT IRON HANGERS.

Claims use since July 1947.

Ser. No. 592,354. YOUNGSTOWN MANUFACTURING, INCORPORATED, Youngstown, Ohio. Filed Feb. 11, 1950.

Loxem

FOR PRICE TAG MOULDINGS.

Claims use since Oct. 15, 1949.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 584,708. WILSOLVE CORPORATION, Baltimore, Md. Filed Sept. 10, 1949. (Classified in Class 52.)

Wilsolve

FOR SOLVENTS FOR USE IN CLEANING FLOORS, FURNITURE, WOODWORK, TILE HEARTHS AND METAL SURFACES OF WAX, GREASE AND STAINS, AND WHICH ALSO MAY BE USED AS A SOLVENT FOR REMOVING VARNISH AND SHELLAC.

Claims use since May 1, 1948.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 559,577. BURROUGHS WELLCOME & Co. (U. S. A.) INC., Tuckahoe, N. Y. Filed June 18, 1948.

Applicant claims ownership of Registration No. 286,409.

FOR LINE OF PHARMACEUTICAL AND MEDICINAL PREPARATIONS—NAMELY, A SYSTEMIC ALKALINIZER FOR ACIDOSIS AND AS AN ALKALINE DIURETIC IN CYSTITIS AND THE LIKE; INHALANTS AS RESPIRATORY AND CIRCULATORY STIMULANTS; STERILE SOLUTIONS FOR PARENTERAL ADMINISTRATIONS, NUTRIENT AND MEDICINAL; VASODILATOR; ANTISPASMODIC FOR TREATING PAROXYSMS OF ANGINA PECTORIS, ARTERIAL HYPERTENSION, ASTHMA AND EPILEPSY; SARCOPTICIDE; PEDICULICIDE; BILE SALTS AND STIMULANTS; SEDATIVES INCLUDING BARBITURATES AND BROMIDES; CARDIAC, RESPIRATORY, VASOMOTOR, REFLEX AND PSYCHIC STIMULANT, DIURETIC; ANTACID HAVING PROTECTIVE AND ASTRINGENT ACTION FOR PEPTIC ULCERS AND THE LIKE; URINARY ANTISEPTIC; PREPARATION FOR TREATMENT OF AMEBIC DYSENTERY; ANTACID, CARMINATIVE AND ASTRINGENT; GLAND PREPARATIONS; HORMONES; CARDIAC STIMULANT, INDIRECT DIURETIC; COUGH SYRUP HAVING EXPECTORANT AND SEDATIVE PROPERTIES; AMEBICIDE; ANTIPYRETIC, ANALGESIC AND ANTIRHEUMATIC COMPOUNDS; SYMPATHOMIMETIC PREPARATION FOR ALLERGY AND THE LIKE AND FOR NARCOLEPSY, ENURESIS, WHOOPING COUGH, MYASTHENIA GRAVIS AND TO COUNTERACT FALLING BLOOD PRESSURE DURING ANESTHESIA; NASAL DECONGESTANT; PREPARATION FOR TREATING POSTPARTUM HEMORRHAGE; INSULIN PREPARATION; SUPPOSITORIES FOR BODILY CAVITIES WITH MEDICAMENT; SUBSTANCES HAVING HISTAMINE ACTION; OPHTHALMIC PREPARATIONS INCLUDING MYDRIATIC AND CYCLOPLEGIC; OXYTOCIC PREPARATIONS; LAXATIVES; SURGICAL LUBRICANT; PREPARATIONS FOR TREATING LEPROSY; PREPARATION FOR TROPICAL DISEASES ADMINISTERED INTRAVENOUSLY; ASTRINGENT FOR CYSTITIS, URETHRITIS AND VAGINITIS AND FOR SKIN INFECTIONS; ANTIFUNGAL PREPARATIONS; ANTIBIOTICS; BACTERIOSTATICS; PREPARATION FOR STIMULATING PARASYMPATHETIC NERVES; PREPARATION FOR AURICULAR FIBRILLATION AND FLUTTER; SWEETENING AGENT WITHOUT FOOD VALUE; HYPNOTICS; CEREBRAL SEDATIVE HAVING ALSO OBSTETRICAL AMNESIA, ANTISEPTIC AND PREMEDICATION USES; URINARY ACIDIFIER AND SALINE PURGATIVE; RADIOPAQUE DYE FOR X-RAY EXAMINATION OF THE GALL BLADDER; HEMOSTATIC FOR TOPICAL APPLICATION IN EPISTAXIS AND HEMORRHAGE; THYROID PREPARATIONS;

DIETARY COMPOSITIONS—NAMELY, HIGH DEXTRIN MILK MODIFIER AND DIETARY SUPPLEMENT; PROTEINACEOUS DIETARY SUPPLEMENTS INCLUDING AMINO ACID PREPARATIONS FOR ORAL AND PARENTERAL ADMINISTRATION; IRON TONICS INCLUDING HEMATINICS WITH VITAMIN COMPONENTS; VITAMIN PREPARATIONS SINGLE AND MULTIPLE AND COMBINED WITH AMINO ACIDS AND YEAST CONCENTRATE AND MALT SYRUP; COD LIVER OIL PREPARATIONS; PREPARATION FOR RELAXING MUSCLE;

OINTMENTS AND SALVES FOR BURNS, ABRASIONS, CHAPPING, CHAFING AND THE LIKE; EMOLLIENT EMULSION BASE AS VEHICLE FOR MEDICINAL AGENTS FOR EXTERNAL USE; MOSQUITO REPELLENT.

Claims use since 1910.

Ser. No. 560,332. GOLDBLATT BROS. INC., Chicago, Ill. Filed June 28, 1948.

MONARCH

FOR ASPIRIN, BORIC ACID, CAMPHORATED OIL, CASTOR OIL, EPSOM SALTS, GLYCERIN, METHYL SALICYLATE, MINERAL OIL FOR THE ALLEVIATION OF CONSTIPATION, PEROXIDE, RUBBING ALCOHOL, WITCH HAZEL, COD LIVER OIL, AND MILK OF MAGNESIA.

Claims use since Sept. 5, 1936.

Ser. No. 575,930. THEO. ROSS, doing business as Theo. Ross Associates, Los Angeles, Calif. Filed Mar. 23, 1949.

TIMSEN

FOR PREPARATION FOR USE AS A GERMICIDE, DISINFECTANT, DEODORANT, AND STERILIZING AGENT.

Claims use since Oct. 15, 1947.

Ser. No. 587,894. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

SEDACOF

FOR MEDICINAL PREPARATION HAVING EXPECTORANT AND SEDATIVE EFFECT. IT IS USED IN THE COUGH WHICH USUALLY ACCOMPANIES COLDS, LARYNGOTRACHIAL BRONCHIAL AFFECTIONS, INFLUENZA.

Claims use since Sept. 13, 1938.

Ser. No. 590,561. PHYSICIANS AND HOSPITALS SUPPLY COMPANY, INC., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Jan. 9, 1950.

PYRAPAC

The drawing is lined for red.

FOR MEDICAL PREPARATION — NAMELY, A BRAND OF ANTIHISTAMINE COMPOUND FOR THE RELIEF AND TREATMENT OF COMMON COLDS.

Claims use since Dec. 28, 1949.

Ser. No. 592,277. ORGANON INC., Orange, N. J. Filed Feb. 10, 1950.

CEHISTRA

FOR MEDICINAL PREPARATION CONTAINING ASPIRIN AND ASCORBIC ACID USED IN THE TREATMENT OF SYMPTOMS DUE TO COLDS.

Claims use since Feb. 3, 1950.

Ser. No. 592,278. ORGANON INC., Orange, N. J. Filed Feb. 10, 1950.

MURACIL

FOR MEDICINAL PREPARATION USED TO CONTROL THE PRODUCTION OF THYROID HORMONE.

Claims use since Jan. 12, 1950.

Ser. No. 592,279. ORGANON INC., Orange, N. J. Filed Feb. 10, 1950.

VISTORA

FOR MEDICINAL PREPARATION CONTAINING ASCORBIC ACID, ASPIRIN, AND ANTACIDS, USED IN THE TREATMENT OF COLDS AND CONDITIONS WHERE ANTACID TREATMENT IS NEEDED.

Claims use since Feb. 3, 1950.

Ser. No. 592,392. SCHENLEY LABORATORIES, INC., New York, N. Y. Filed Feb. 13, 1950.

CONTEBEN

FOR CHEMO-THERAPEUTIC AGENT CONSISTING OF TABLETS MADE OF THIOSEMICARBAZONE FOR PULMONARY DISEASES.

Claims use since Oct. 15, 1949.

Ser. No. 592,393. SCHENLEY LABORATORIES, INC., New York, N. Y. Filed Feb. 13, 1950.

CONTIBIONE

FOR CHEMO-THERAPEUTIC AGENT CONSISTING OF TABLETS MADE OF A THIOSEMICARBAZONE FOR PULMONARY DISEASES.

Claims use since Oct. 15, 1949.

Ser. No. 593,366. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 3, 1950.

ANADRYL

FOR ANTIHISTAMINE PREPARATION.

Claims use since Feb. 3, 1950.

Ser. No. 593,395. ERNEST CARENGELO, doing business as Koza Products Company, New York, N. Y. Filed Mar. 4, 1950.

Koza

FOR SALVE FOR USE IN SKIN DISORDERS.

Claims use since Feb. 7, 1950.

Ser. No. 593,472. EATON LABORATORIES INC., Norwich, N. Y. Filed Mar. 6, 1950.

FORALAMIN

FOR ANTIHISTAMINIC FUMARATE FOR USE IN THE TREATMENT OF COMMON COLDS AND ALLERGIES.

Claims use since Feb. 9, 1950.

CLASS 19

VEHICLES

Ser. No. 553,194. GLIDER TRAILER COMPANY, Chicago, Ill. Filed Mar. 27, 1948.

The representation of an automobile and house trailer are disclaimed.

FOR HOUSE TRAILERS, TRAILER COACHES, AND WHEELS, AXLES, AND TRAILER HITCHES, FOR TRAILERS.

Claims use since Jan. 2, 1940.

Ser. No. 574,612. THE CUSTOM SHADE SHOP, Arlington, Va. Filed Feb. 28, 1949.

RollFT

FOR TRAILER VENETIAN BLINDS.

Claims use since January 1948.

Ser. No. 594,131. LIPSCHULTZ BROS., St. Paul, Minn. Filed Mar. 17, 1950.

FOR AUTOMOBILE SEAT COVERS.

Claims use since Dec. 12, 1949.

Ser. No. 594,173. DANIEL C. LARKIN, doing business under the assumed name of the Crest Company, Detroit, Mich. Filed Feb. 18, 1950.

CREST

FOR AUTOMOBILE SEAT COVERS.
Claims use since Mar. 18, 1935.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 547,151. THE RHEOSTATIC COMPANY LIMITED, Slough, Buckinghamshire, England. Filed Jan. 15, 1948.

SATCHWELL

Applicant claims ownership of British Registration No. 635,598, dated Mar. 8, 1945, and United States Registration No. 513,746.
FOR ELECTRIC MOTOR ACTUATED AND SOLENOID ACTUATED VALVES FOR THE CONTROL OF LIQUIDS AND GASES, INCLUDING OIL, WATER, AND STEAM, IN MANUALLY AND AUTOMATICALLY OPERATED SYSTEMS.

Ser. No. 550,035. ELECTRO MANUFACTURING CORPORATION, Chicago, Ill. Filed Feb. 18, 1948.

SKYLOUVER

FOR FLUORESCENT LIGHTING FIXTURES.
Claims use since Feb. 13, 1948.

Ser. No. 556,037. VAN DER HEEM N. V., The Hague, Netherlands. Filed May 1, 1948.

Applicant claims ownership of Dutch Registration No. 74,746, dated Sept. 8, 1939.
FOR ELECTRICALLY OPERATED HANDTOOLS—NAMELY, DRILLS, SCREW DRIVERS, SAWS, FILES, CHISELS AND NIBBLERS.

Ser. No. 564,971. S. F. APPLIANCES, LIMITED, Ridgefield, N. J. Filed Sept. 10, 1948. (Sec. 2f.)

FOR ELECTRIC SMOOTHING IRONS.
Claims use since May 15, 1933.

Ser. No. 570,840. THE ELECTRIC CONTROLLER & MANUFACTURING COMPANY, Cleveland, Ohio. Filed Dec. 20, 1948.

VALIMITOR

FOR ELECTRIC MOTOR CONTROLLERS FOR STARTING, REVERSING, STOPPING, REGULATING THE SPEED OF, AND PROTECTING ELECTRIC MOTORS.
Claims use since Sept. 28, 1948.

Ser. No. 573,200. S & C ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 2, 1949.

ALDUTI

FOR INTERRUPTER SWITCHES.
Claims use since November 1948.

Ser. No. 576,170. SPEAR LIGHTING FIXTURE MFG. CO., Brooklyn, N. Y. Filed Mar. 26, 1949.

Musiglo

FOR ELECTRIC TABLE LAMPS.
Claims use since July 1, 1948.

Ser. No. 579,770. ZENITH RADIO CORPORATION, Chicago, Ill. Filed May 31, 1949.

CLARIDGE

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since May 2, 1949.

Ser. No. 579,771. ZENITH RADIO CORPORATION, Chicago, Ill. Filed May 31, 1949.

MAJOR

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since May 11, 1949.

Ser. No. 579,772. ZENITH RADIO CORPORATION, Chicago, Ill. Filed May 31, 1949.

SARATOGA

FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF.
Claims use since May 2, 1949.

Ser. No. 583,218. SENTINEL RADIO CORPORATION, Evanston, Ill. Filed Aug. 9, 1949.

Sentinel

Applicant claims ownership of Registrations Nos. 292,631, 374,479, and others.
FOR RADIO RECEIVING SETS, RADIO-PHONOGRAPH COMBINATIONS, ELECTRIC PHONOGRAPHS, TELEPHONIC COMMUNICATION APPARATUS, INCLUDING SPEAKERS, MICROPHONES, AMPLIFIERS AND INTERCONNECTING CIRCUITS THEREFOR, RADIO TRANSMITTER-RECEIVER APPARATUS, ELECTRICAL SOUND RECORDING AND REPRODUCING APPARATUS, TELEVISION RECEIVING SETS, TELEVISION-PHONOGRAPH RADIO COMBINATIONS, PORTABLE TELEVISION ANTENNAS, AND PARTS THEREOF AND THEREFOR.
Claims use since January 1928.

Ser. No. 583,358. NATIONAL BATTERY COMPANY, St. Paul, Minn. Filed Aug. 11, 1949.

Dragon

FOR ELECTRIC STORAGE BATTERIES.
Claims use since November 1920.

Ser. No. 587,222. PROIE & COOGAN HEATING COMPANY, Pittsburgh, Pa. Filed Oct. 12, 1949.

The expressions "Heat Your Home with Warm Air" and "The Earth is Heated with Warm Air" are disclaimed.
FOR ELECTRICAL WATER HEATERS AND FOR ELECTRIC CONTROLS, DAMPER AND PRESSURE-RESPONSIVE, SOLD THEREWITH.
Claims use since May 1, 1944.

Ser. No. 588,928. ART SPECIALTY COMPANY, Chicago, Ill. Filed Dec. 7, 1949.

Flexarm

FOR FLUORESCENT LAMP.
Claims use since March 1937.

Ser. No. 589,138. ALLEN ORGAN COMPANY, INC., Allentown, Pa. Filed Dec. 10, 1949.

GYROPHONIC

FOR LOUDSPEAKERS AND PARTS THEREOF.
Claims use since Nov. 21, 1949.

Ser. No. 589,294. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis. Filed Dec. 14, 1949. (Sec. 2f.)

ALLIS-CHALMERS

FOR ELECTRIC MOTORS, ELECTRIC GENERATORS, CIRCUIT BREAKERS, RELAYS, CONTACTORS, ELECTRIC SWITCHES, TRANSFORMERS, ELECTRICAL INSULATING LIQUID, SWITCHGEAR, SWITCHHOUSES, SUBSTATIONS, SWITCHBOARDS, SWITCHPANELS, RECTIFIERS, ELECTRIC HOISTING APPARATUS; ELECTRIC CONTROL APPARATUS IN THE NATURE OF ELECTRICAL SYNCHRONIZERS, VOLTAGE REGULATORS, CURRENT REGULATORS, SPEED REGULATORS, TENSION REGULATORS, RHEOSTATS, AND MOTOR STARTERS; SYNCHRONOUS CONDENSERS, FEEDER VOLTAGE REGULATORS, INDUCTION ELECTRON ACCELERATORS, ELECTRICAL REMOTE POSITIONING APPARATUS, AND PARTS THEREOF.
Claims use since Nov. 1, 1903.

Ser. No. 589,781. THE GERLAT COMPANY, Milwaukee, Wis. Filed Dec. 22, 1949.

Safti—ized!

The term "Safti" and the representation of the fuses are disclaimed.
FOR ELECTRIC DECORATIVE LIGHTING AND CHRISTMAS TREE LIGHTING SETS.
Claims use since Nov. 14, 1949.

Ser. No. 590,161. KENNECOTT WIRE AND CABLE COMPANY, Phillipsdale, R. I. Filed Dec. 30, 1949.

KENLINE

FOR BARE AND INSULATED ELECTRIC WIRES.
Claims use since June 28, 1949.

Ser. No. 590,233. PERMOFLUX CORPORATION, Chicago, Ill. Filed Dec. 31, 1949.

Tape-Riter

The word "Tape" is disclaimed.
FOR ELECTRICALLY OPERATED DICTATING MACHINES FOR OFFICE AND GENERAL PURPOSE USE.
Claims use since Oct. 31, 1949.

Ser. No. 590,401. WARD MANUFACTURING CO., Chicago, Ill. Filed Jan. 5, 1950.

hide-a-lenna

FOR ANTENNAS—NAMELY, ANTENNAS FOR USE WITH TELEVISION RECEIVERS.
Claims use since Dec. 21, 1949.

Ser. No. 591,941. MCGRAW ELECTRIC COMPANY, Elgin, Ill. Filed Feb. 3, 1950.

SILTECT

FOR ELECTRICAL APPLIANCES—NAMELY, WAFFLE BAKERS.
Claims use since July 26, 1948.

Ser. No. 592,174. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Feb. 8, 1950.

Thermaster

FOR STORAGE BATTERY CHARGERS.
Claims use since Nov. 4, 1949.

Ser. No. 592,175. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Feb. 8, 1950.

Timemaster

FOR STORAGE BATTERY CHARGERS.
Claims use since Oct. 17, 1949.

Ser. No. 592,903. WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh and Beaver, Pa. Filed Feb. 23, 1950. (Sec. 2f.)

LINESTARTER

Applicant claims ownership of Registration No. 256,236.
FOR ELECTROMAGNETIC CONTROLLERS.
Claims use since Dec. 28, 1926.

Ser. No. 593,497. JOSEPH WILLIAM O'BRIEN, doing business under the firm name of Food Service Products, Los Angeles, Calif. Filed Mar. 6, 1950.

RAYMASTER

FOR ELECTRIC FOOD WARMER.
Claims use since Feb. 10, 1950.

Ser. No. 593,991. MAYFAIR PURCHASING COMPANY, INC., Chicago, Ill. Filed Mar. 15, 1950.

Esquire

FOR RADIO AND TELEVISION RECEIVING SETS.
Claims use since Feb. 8, 1950.

Ser. No. 594,167. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Mar. 17, 1950.

COBRA-MATIC

FOR RADIO AND TELEVISION RECEIVING APPARATUS AND PARTS THEREOF.
Claims use since Feb. 22, 1950.

Ser. No. 594,168. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Mar. 17, 1950.

COBRA-MATIC UNIVERSAL

Applicant claims ownership of Registration No. 373,684.
FOR RADIO AND TELEVISION RECEIVING APPARATUS AND PARTS THEREOF.
Claims use since Feb. 22, 1950.

Ser. No. 594,169. ZENITH RADIO CORPORATION, Chicago, Ill. Filed Mar. 17, 1950.

FOR RADIO AND TELEVISION RECEIVING APPARATUS AND PARTS THEREOF.
Claims use since Feb. 22, 1950.

Ser. No. 594,501. SUNBEAM CORPORATION, Chicago, Ill. Filed Mar. 23, 1950.

Sunbeam

FOR ELECTRIC EGG COOKERS.
Claims use since Dec. 20, 1949.

Ser. No. 594,696. DAY-BRITE LIGHTING, INC., St. Louis, Mo. Filed Mar. 27, 1950.

PLEXOLINE

FOR FLUORESCENT LIGHTING FIXTURES AND PARTS THEREOF—NAMELY, CHASSIS AND END PLATES.
Claims use since Mar. 14, 1950.

Ser. No. 594,736. UNION INSULATING CO., Parkersburg, W. Va. Filed Mar. 27, 1950.

FOR ELECTRIC WIRING DEVICES — NAMELY, LAMP HOLDERS OR SOCKETS, LAMP RECEPTACLES, LIGHTING FIXTURES, OUTLET BOXES, SWITCH BOXES, COVERS FOR OUTLET AND SWITCH BOXES, ATTACHMENT PLUGS, INSULATING BUSHINGS, MINE INSULATORS, AND CHRISTMAS TREE SETS, KITS, AND STREAMERS.
Claims use since 1930.

Ser. No. 594,868. SYLVANIA ELECTRIC PRODUCTS INC., New York, N. Y. Filed Mar. 29, 1950.

Applicant claims ownership of Registrations Nos. 110,463, 250,048, 285,095, 370,385, 370,386, 400,538, 402,697, 402,698, 402,699, 405,336, 405,337, 405,338, and 405,339.
FOR TELEVISION ANTENNAS.
Claims use since Nov. 1, 1949.

Ser. No. 594,869. SYLVANIA ELECTRIC PRODUCTS INC., New York, N. Y. Filed Mar. 29, 1950.

SYLVANIA

Applicant claims ownership of Registrations Nos. 212,808, 254,018, 405,339, and 406,002.
FOR TELEVISION ANTENNAS.
Claims use since Nov. 1, 1949.

Ser. No. 594,909. LIGHTNING STATIC STRAP COMPANY, St. Louis, Mo. Filed Mar. 30, 1950.

FOR HANGER STRAPS FOR DISCHARGING STATIC ELECTRICITY FROM MOVING VEHICLES.
Claims use since Mar. 9, 1950.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 541,723. W. L. DUMAS, doing business as W. L. Dumas Manufacturing Company, Miami, Okla. Original filed, act of 1946, Supplemental Register, Aug. 7, 1947; amended to application, Principal Register, July 14, 1950. (Sec. 2f.)

ROLL-A-HOOP

The word "Hoop" is disclaimed.
FOR CHILDREN'S HOOPS.
Claims use since Sept. 2, 1944.

Ser. No. 554,573. INTERNATIONAL DOLL CO., INC., Philadelphia, Pa. Filed Apr. 14, 1948.

International Doll

The word "Doll" is disclaimed.
FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Feb. 13, 1946.

Ser. No. 555,466. UNIQUE ART MANUFACTURING COMPANY, INC., Newark, N. J. Filed Apr. 23, 1948.

BOMBO the MONK

The words "The Monk" are disclaimed.
FOR JOINTED TOY MONKEY.
Claims use since Jan. 7, 1948.

Ser. No. 568,155. COLVIN CORPORATION, Long Island City, N. Y. Filed Oct. 6, 1948.

FOR TOYS—NAMELY, WOODEN PULL-TYPE.
Claims use since Aug. 22, 1947.

Ser. No. 577,670. HIRAM H. HILDEBRANDT, doing business as The John J. Hildebrandt Co., Logansport, Ind. Filed Apr. 25, 1949. (Sec. 2f.)

FLICKER-SPINNER

The word "Spinner" is disclaimed.
FOR ARTIFICIAL FISH BAIT.
Claims use since Sept. 1, 1930.

Ser. No. 582,006. CHARLES M. WEEKS, doing business as Weeks Valve Company, Takoma Park, Md. Filed July 14, 1949.

KUKU-WHEEL

The word "Wheel" is disclaimed.
FOR STRING CONTROLLED TOY WHEEL.
Claims use since June 27, 1949.

Ser. No. 585,402. TABLE GAMES, INCORPORATED, Skokie, Ill. Filed Sept. 27, 1949.

Scrimmage

FOR MECHANICAL DEVICE FOR PLAYING A GAME SIMULATING THE GAME OF FOOTBALL.
Claims use since Aug. 19, 1949.

Ser. No. 587,526. BAY STATE PRODUCTS CORPORATION, Allston, Mass. Filed Nov. 9, 1949.

PURITAN MAID

FOR TOYS—NAMELY, TOY WASHING MACHINES AND TOY SEWING MACHINES.
Claims use since June 29, 1948.

Ser. No. 587,635. EARL H. HURLEY, doing business as Earl H. Hurley Associates, Corry, Pa. Filed Nov. 10, 1949.

EXERGLIDE

FOR CHILDREN'S PLAY SWINGS.
Claims use since June 7, 1949.

Ser. No. 587,729. JAMES INDUSTRIES, INC., Philadelphia, Pa. Filed Nov. 14, 1949.

SLINK'EM

Applicant claims ownership of Registration No. 427,951.
FOR GAME EMPLOYING A SPRING MOVING DOWN AN INCLINED PLANE AND LANDING ON A SCORING BOARD.
Claims use since Sept. 27, 1949.

Ser. No. 588,105. POINSETTER CREATIONS, Winnetka, Ill. Filed Nov. 19, 1949.

Shiner the Poinsetter

FOR TOY FIGURES—NAMELY, DOGS HEAD FIGURES USEABLE AS TOYS AND PUPPETS.
Claims use since Aug. 16, 1949.

Ser. No. 590,925. AMERICAN METAL SPECIALTIES CORP., also known as American Metal Specialties Corporation, Hatboro, Pa. Filed Jan. 16, 1950.

Amsco

FOR CHILDREN'S SAND BOXES AND PLAY POOLS AND DOLLS' BATHS, DOLLS' BEDS, DOLLS' GLIDERS, DOLLS' HIGH CHAIRS, DOLLS' SWINGS; AND DOLLS' NURSING SETS, EACH OF SAID NURSING SETS CONSISTING OF A POT AND LID, A BOTTLE RACK CONTAINING NURSING BOTTLES, A FUNNEL, A NIPPLE JAR AND LID CONTAINING NIPPLES, A BOTTLE BRUSH, A MEASURING CUP, AND A FORMULA MEASURING SPOON.
Claims use since Jan. 2, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 534,596. BOWEN PRODUCTS CORPORATION, Ecorse, Mich. Filed Sept. 16, 1947. (Sec. 2f.)

BOWEN OILSHOT SYSTEM

The words "Oilshot System" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 288,799 and 224,393.
FOR UNIFIED LUBRICATING SYSTEM FOR USE ON MACHINE PLANTS COMPRISING A LUBRICANT TANK, PUMP, METERING CONTROLS, AND TUBING LEADING TO PARTS WHICH REQUIRE LUBRICATION ON THE MACHINE PLANTS.
Claims use since June 1929.

Ser. No. 536,579. F. E. BRADY PRODUCTS, INC., Muncie, Ind. Filed Oct. 3, 1947. (Sec. 2f.)

Brady

FOR FLUID PUMPS, HYDROSTATIC AIR VOLUME CONTROLS FOR WATER SYSTEMS, APPARATUS FOR CIRCULATING A CLEANING SOLUTION AND FLUSHING LIQUID THROUGH AN INTERNAL COMBUSTION ENGINE OR ENGINE COOLING SYSTEM.
Claims use since Oct. 15, 1939.

Ser. No. 538,143. IDEAL MANUFACTURING CO., San Francisco, Calif. Filed Oct. 17, 1947

Ideal

FOR MOP WRINGER.
Claims use since Aug. 1, 1946.

Ser. No. 540,503. WALKER PROCESS EQUIPMENT INC., Aurora, Ill. Filed Nov. 7, 1947.

PROQUIP

FOR EQUIPMENT FOR TREATING SEWAGE AND OTHER WATER-BORNE WASTE AND WATER—NAMELY, AERATOR UNITS, MIXERS FOR USE IN TANKS; SLUDGE COLLECTORS, SKIMMERS, ROTARY DISTRIBUTORS, CLARIFIERS, DIGESTERS AND MACHINES DESIGNED FOR THE DEPOSITING OF SOLIDS ON A BED OR TANK BOTTOM IN A TANK, MACHINES ADAPTED TO RECEIVE AND STORE SLUDGE WHILE IT UNDERGOES BACTERIAL DECOMPOSITION; MACHINES WHICH WILL REMOVE SUSPENDED, DISSOLVED, AND COLLOIDAL SUBSTANCES FROM LIQUIDS; AND MACHINES FOR CHEMICALLY TREATING AQUEOUS WASTES AND WATER; AND PARTS FOR ANY OF THE FOREGOING.
Claims use since July 29, 1946.

Ser. No. 542,714. CHICAGO ROLLER SKATE COMPANY, Chicago, Ill. Filed Oct. 2, 1947. (Sec. 2f.)

"CHICAGO"

Applicant claims ownership of Registration No. 400,292.
FOR ROLLERS AND WHEELS FOR CONVEYORS.
Claims use since 1906.

Ser. No. 543,357. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Oct. 3, 1947. (Sec. 2f.)
Applicant claims ownership of Registration No. 233,134.

KLEEN

FOR FISH SCALERS.
Claims use since Feb. 17, 1926.

Ser. No. 545,112. THE FATE-ROOT-HEATH COMPANY, Plymouth, Ohio. Filed Dec. 22, 1947. (Sec. 2f.)

PLYMOUTH

FOR RAILROAD LOCOMOTIVES, THE POWER SOURCE OF WHICH IS AN INTERNAL COMBUSTION ENGINE.
Claims use since Mar. 20, 1914.

Ser. No. 550,730. PLASTIC CORPORATION OF CHICAGO, Cicero, Ill. Filed Feb. 27, 1948.

PLASTI-PLATE

The word "Plate" is disclaimed.
FOR FOUNDRY EQUIPMENT—NAMELY, PLASTIC MATCH PLATES, PLASTIC MATCH PLATE FRAMES, PLASTIC CORE BOXES.
Claims use since December 1946.

Ser. No. 554,172. THE G. S. SUPPIGER COMPANY, St. Louis, Mo. Filed Apr. 8, 1948.

"SCIENCO"

FOR MACHINES FOR DEPOSITING FLAVORING MATERIAL TABLETS AND CAPSULES IN CANS AND OTHER CONTAINERS.
Claims use since January 1927.

Ser. No. 556,322. OLIVER DAVIES, INC., Racine, Wis. Filed May 6, 1948.

WHIRL-A-WAY

The term "Whirl" is disclaimed.
FOR HAND-OPERATED ROTARY GLASS WASHERS.
Claims use since Jan. 15, 1947.

Ser. No. 556,969. MARLIN-ROCKWELL CORPORATION, Jamestown, N. Y. Filed May 13, 1948. (Sec. 2f as to "Strom" and "Gurney.")

M-R-C Strom SRB GURNEY BALL BEARINGS

The words "Ball Bearings" are disclaimed. Applicant claims ownership of Registrations Nos. 293,246, 73,182, 147,525, and 258,174.
FOR BALL BEARINGS.
Claims use since 1934.

Ser. No. 556,972. MARLIN-ROCKWELL CORPORATION, Jamestown, N. Y. Filed May 13, 1948. (Sec. 2f.)

Strom

Any lining shown is not intended to designate any particular color.
FOR BALL BEARINGS.
Claims use since Nov. 1, 1918.

Ser. No. 557,898. CHICAGO PUMP COMPANY, Chicago, Ill. Filed May 27, 1948.

CONDO-VAC

FOR RETURN LINE VACUUM CONDENSATION PUMP.
Claims use since June 22, 1922.

Ser. No. 560,479. KENNAMETAL INC., Latrobe, Pa. Filed June 30, 1948.

KM

FOR WEAR-RESISTING PIECES CONSISTING OF CEMENTED HARD METALLIC COMPOSITIONS — NAMELY, INSERTS TO BE USED IN DIES AND TOOLS FOR WORKING, CUTTING, OR SHAPING METAL AND OTHER MATERIALS, IN BEARING-SURFACE AND WEARING-SURFACE PARTS, IN PUMP-VALVES AND PARTS THEREOF, AND FOR DIES, CUTTING TOOLS, BEARING-SURFACE AND WEARING-SURFACE PARTS, PUMP-VALVES WHICH EMBODY SUCH WEAR-RESISTING PIECES.
Claims use since Mar. 18, 1938.

Ser. No. 561,768. RAY OIL BURNER CO., San Francisco, Calif., assignor to Ray Oil Burner Co., a corporation of California. Filed July 20, 1948. (Sec. 2f.)

RAY

Applicant claims ownership of Registrations Nos. 197,995 and 288,885.
FOR GEAR-TYPE FUEL SUPPLY PUMPS; STEAM DRIVE PUMP SETS FOR DELIVERING FUEL INCLUDING A BASE, HAND VALVES, A RELIEF VALVE, AN OIL STRAINER, A STEAM GOVERNOR, AN OIL GAUGE, AN AIR CHAMBER, A CHECK VALVE, FITTINGS AND DIRECT ACTION DUPLEX PUMPS; AND WORM DRIVE FUEL PUMP SETS INCLUDING A BASE, AND A GEAR-TYPE PUMP OR PUMPS DRIVEN BY A WORM DRIVE REDUCING GEAR CONNECTED TO A MOTOR.
Claims use since May 1921.

Ser. No. 563,440. TOOLMASTERS LIMITED, Hillingdon Heath, England. Filed Aug. 14, 1948.

DIGform

Applicant claims ownership of British Registration No. 649,028, dated June 20, 1946.
FOR COPYING MACHINES FOR PROFILING GRINDING WHEELS OR FOR PROFILING CUTTING TOOLS OF METAL AND PARTS THEREOF AND FITTINGS THEREFOR.

Ser. No. 564,859. CLAUDE E. CASADY, doing business under the name General Tractor Company, Seattle, Wash. Filed Sept. 9, 1948.

WESTRAK

FOR AUTOMOTIVE TRACTORS.
Claims use since Apr. 5, 1948.

Ser. No. 579,106. AIRCRAFT-MARINE PRODUCTS INC., Harrisburg, Pa. Filed Feb. 1, 1949.

AMP-O-LECTRIC

The word "Lectric" is disclaimed.
FOR MACHINES FOR APPLYING ELECTRICAL TERMINALS.
Claims use since Jan. 5, 1949.

Ser. No. 578,009. DAZEY CORPORATION, St. Louis, Mo. Filed Apr. 30, 1949. (Sec. 2f.)

DAZEY

Applicant claims ownership of Registrations Nos. 147,298, 147,299, and 391,437.
FOR HAND-OPERATED MACHINES AND APPLIANCES—NAMELY, CHURNS, CAN OPENERS, ICE CRUSHERS, CUTLERY SHARPENERS, JAR AND BOTTLE OPENERS, FRUIT JUICERS, AND NUT CRACKERS.
Claims use since 1906.

Ser. No. 584,191. ERIC COWAN, doing business as Cowan Manufacturing Company, San Francisco, Calif. Filed Aug. 29, 1949.

SWIF-TY

FOR TWINE DISPENSER COMPRISING A BASE CAPABLE OF HOLDING A SPOOL OF TWINE, THE END OF THE TWINE PASSING THROUGH A FEEDER-EYE, AND A TENSION BRAKE THAT AUTOMATICALLY SETS AND HOLDS THE CORDAGE PRIOR TO CUTTING ON AN ATTACHED BLADE.
Claims use since July 1, 1949.

Ser. No. 587,692. NU-PRO CORPORATION, Chicago, Ill. Filed Nov. 12, 1949.

Sport Stirs

The word "Stirs" and the representation of the goods are disclaimed.
FOR BEVERAGE STIRRERS.
Claims use since Sept. 22, 1949.

Ser. No. 588,521. E. C. SCHLEYER PUMP COMPANY, INC., Anderson, Ind. Filed Nov. 29, 1949.

CECO

The mark consists of the letters "C," "E," "C," and "O" in that order and an enlarged letter "S" behind the "E C" and in contrast therewith as indicated by shading, the said arrangement of letters being surrounded by a diamond-shaped border. Applicant claims ownership of Registration No. 135,216.
FOR NON-SELF-MEASURING PUMPS, VALVES, FITTINGS, AND LIQUID HANDLING AND TREATING EQUIPMENT AND SYSTEMS FOR CHEMICAL AND OTHER INDUSTRIAL OPERATIONS, SOLD AS A UNIT, AND PARTS THEREOF.
Claims use since Aug. 1, 1943.

Ser. No. 590,446. LINK-BELT SPEEDER CORPORATION, Cedar Rapids, Iowa. Filed Jan. 6, 1950.

LBS

FOR POWER SHOVELS; REVOLVING POWER SHOVELS; EXCAVATING MACHINERY AND EXCAVATORS—NAMELY, GRAB BUCKET EXCAVATORS, CLAMSHELL EXCAVATORS, ORANGE PEEL EXCAVATORS, DRAGLINE EXCAVATORS, TRENCH EXCAVATORS; COAL LOADERS, AND COAL LOADING MACHINERY; UNLOADING MACHINES; CRANES—NAMELY, STATIONARY CRANES, TRAVELING CRANES, CRAWLER MOUNTED CRANES, TRUCK MOUNTED CRANES, AND WHEEL-MOUNTED CRANES; PILE DRIVERS—NAMELY, CRAWLER MOUNTED PILE DRIVERS, TRUCK CRANE MOUNTED PILE DRIVERS, AND WHEEL-MOUNTED PILE DRIVERS; DIPPER TRIPS; GRAB BUCKETS; CLAMSHELL BUCKETS; ORANGE PEEL BUCKETS; DRAG BUCKETS; EXCAVATING DIPPERS; HOOK-BLOCKS; SLINGS; GRAPPLES; TONGS; TRACTOR EQUIPMENT—NAMELY, TRACTOR SHOVELS, TRACTOR CRANES, AND TRACTOR DRAGLINES; DIPPER TEETH AND LIPS; BUCKET TEETH AND LIPS; AND REPAIR, SPARE AND REPLACEMENT PARTS AND UNITS FOR THE SPECIFIED GOODS; SUCH OF THE FOREGOING AS ARE POWER OPERATED BEING OPERATED BY GASOLINE ENGINE POWER, DIESEL ENGINE POWER, SEMI-DIESEL ENGINE POWER, OR MECHANICAL POWER OTHER THAN ELECTRIC.
Claims use since Sept. 25, 1946.

Ser. No. 594,342. UNITED STATES STEEL PRODUCTS COMPANY, New York, N. Y. Filed Mar. 21, 1950.

BOYCO

The figure of a boy is fanciful. Applicant claims ownership of Registrations Nos. 120,545 and 361,427.
FOR MOP WRINGERS.
Claims use since 1925.

Ser. No. 594,719. JOHN M. LUERS, Mount Clemens, Mich. Filed Mar. 27, 1950. (Sec. 2f.)

LUERS

FOR CUTTING-OFF TOOLS, THREADING TOOLS, AND TOOLHOLDERS FOR THE SAID TOOLS FOR USE ON LATHES, AUTOMATIC MACHINES AND THE LIKE.
Claims use since June 1, 1926.

Ser. No. 595,828. CONSOLIDATED SEWING MACHINE & SUPPLY CO., INC., New York, N. Y. Filed Apr. 17, 1950.

Viking

FOR SEWING MACHINES.
Claims use since Mar. 20, 1950.

Ser. No. 596,819. J. H. WILLIAMS & CO., Buffalo, N. Y. Filed May 3, 1950.

Applicant claims ownership of Registrations Nos. 104,112 and 331,756.
FOR WRENCHES.
Claims use since Apr. 3, 1950.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 517,416. ILAC PRODUCTS CORP., Buffalo, N. Y. Original filed, act of 1905, Feb. 13, 1947; amended to application under act of 1946, Principal Register, June 19, 1950. (Sec. 2f.)

RE-MOV-A-TAB

The word "Tab" is disclaimed.
FOR IDENTIFYING LABELS ATTACHED TO GARMENTS AS A PART OF THE LAUNDERING PROCESS THEREOF.
Claims use since January 1945.

Ser. No. 583,209. LOROMAN COMPANY, New York, N. Y. Filed Aug. 9, 1949.

SLEEVE-O-MATIC

The word "Sleeve" is disclaimed.
FOR IRONING BOARDS.
Claims use since Apr. 29, 1949.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 551,861. THE CUSSINS AND FEARN COMPANY, Columbus, Ohio. Filed Mar. 13, 1948.

RELIANCE

FOR MEASURING RULES, TAPE MEASURES, CARPENTERS' LEVELS, CARPENTERS' SQUARES, AND T-BEVELS.
Claims use since Mar. 1, 1919.

Ser. No. 573,666. METROPOLITAN INDUSTRIES, INC., Chicago, Ill. Filed Feb. 10, 1949.

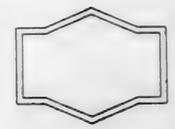
WOND-O-FLEX

The word "Flex" is disclaimed.
FOR CAMERAS.
Claims use since Jan. 27, 1949.

Ser. No. 578,772. CUTLER-HAMMER, INC., Milwaukee, Wis. Filed May 13, 1949.

Applicant claims ownership of Registrations Nos. 344,863, 345,447, and 375,799.
FOR THERMOSTATICALLY CONTROLLED ELECTRICAL SWITCHES; GAS METERS; GAS CALORIMETERS; APPARATUS FOR CONTROLLING, INDICATING, AND RECORDING THE MEASURING AND MIXING OF GASES IN GAS DISTRIBUTION SYSTEMS, INCLUDING PARTS THEREOF.
Claims use since Feb. 1, 1936.

Ser. No. 578,773. CUTLER-HAMMER, INC., Milwaukee, Wis. Filed May 13, 1949.



Applicant claims ownership of Registrations Nos. 287,074, 296,970, 344,863, 345,447, and 366,253.
FOR THERMOSTATICALLY CONTROLLED ELECTRICAL SWITCHES; GAS METERS; GAS CALORIMETERS; APPARATUS FOR CONTROLLING, INDICATING, AND RECORDING THE MEASURING AND MIXING OF GASES IN GAS DISTRIBUTION SYSTEMS, INCLUDING PARTS THEREOF.
Claims use since May 2, 1918.

Ser. No. 578,775. CUTLER-HAMMER, INC., Milwaukee, Wis. Filed May 13, 1949.

Applicant claims ownership of Registrations Nos. 287,074, 344,863, 345,447, 366,253, and 430,190.
FOR THERMOSTATICALLY CONTROLLED ELECTRICAL SWITCHES; GAS METERS; GAS CALORIMETERS; APPARATUS FOR CONTROLLING, INDICATING, AND RECORDING THE MEASURING AND MIXING OF GASES IN GAS DISTRIBUTION SYSTEMS, INCLUDING PARTS THEREOF.
Claims use since May 2, 1918.

Ser. No. 583,493. THE RICHARDSON COMPANY, Lockland, Cincinnati, Ohio. Filed Aug. 15, 1949.

RUB-EROK

Applicant claims ownership of Registration No. 324,904.
FOR MOLDED HARD RUBBER X-RAY DEVELOPMENT TANKS, TANK FRAMES, AND TANK COVERS.
Claims use since Oct. 28, 1947.

Ser. No. 584,328. JOHN M. HILLS, Midland, Tex. Filed Sept. 1, 1949.

MICROVIOLITE

The drawing is lined for shading.
FOR MICROSCOPIC ULTRA-VIOLET LIGHT EXAMINATION BOX DESIGNED TO FACILITATE THE EXAMINATION OF WELL CUTTING SAMPLES UNDER BOTH WHITE LIGHT AND NEAR VISIBLE ULTRA-VIOLET LIGHT.
Claims use since July 21, 1949.

Ser. No. 589,066. BOONTON RADIO CORPORATION, Boonton, N. J. Filed Dec. 9, 1949.

UNIVERTER

FOR FREQUENCY CONVERTERS FOR USE WITH HIGH FREQUENCY SIGNAL GENERATORS.
Claims use since June 6, 1947.

Ser. No. 590,562. LEO D. REIMANN, doing business under the assumed business name of Full Run Carbon Saver Co., Salem, Oreg. Filed Jan. 9, 1950.

FULL RUN

FOR CARBON ADAPTERS AND CARBON SAVERS FOR MOTION PICTURE PROJECTORS.
Claims use since Oct. 10, 1949.

Ser. No. 591,400. BOL, LTD., New York, N. Y. Filed Jan. 23, 1950. (Sec. 2f.)

BOLSEY

Applicant claims ownership of Registration No. 395,795.
FOR CINEMATOGRAPHIC AND PHOTOGRAPHIC APPARATUS AND ACCESSORIES THERETO—NAMELY, PHOTOGRAPHIC CAMERAS AND PROJECTORS, MOTION PICTURE CAMERAS AND PROJECTORS, LENSES, FILTERS, FILTER HOLDERS, FADING APPARATUS, APPARATUS FOR DELAYED EXPOSURE, SHUTTERS, PHOTOGRAPHIC ENLARGERS, TITLING APPARATUS, SPLICERS, FILM VIEWERS, FILM WINDERS, PROJECTION SCREENS, EXPOSURE-METERS, FILM PRINTING AND DEVELOPING APPARATUS, DEVELOPING TANKS, FILM MAGAZINES, TRIPODS, AND TRIPOD HEADS.
Claims use since Feb. 24, 1941.

Ser. No. 593,306. WATCHEMOKET OPTICAL COMPANY, INC., Providence, R. I. Filed Mar. 2, 1950.

METHASPEC

The representation of the goods is disclaimed.
FOR SPECTACLES, GOGGLES AND EYESHIELDS.
Claims use since Jan. 31, 1950.

Ser. No. 593,533. DA-LITE SCREEN COMPANY, INC., Chicago, Ill. Filed Mar. 7, 1950. (Sec. 2f.)

ELECTROL

Applicant claims ownership of Registration No. 399,768.
FOR MOTION PICTURE SCREENS.
Claims use since June 3, 1938.

Ser. No. 593,584. DALE PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 8, 1950.

PRISMEX

FOR BINOCULARS.
Claims use since Feb. 1, 1950.

Ser. No. 593,914. FRIDEN CALCULATING MACHINE CO., INC., San Leandro, Calif. Filed Mar. 14, 1950. (Sec. 2f.)

FRIDEN

Applicant claims ownership of Registration No. 353,891.
FOR CALCULATING MACHINES.
Claims use since May 19, 1934.

Ser. No. 593,915. FRIDEN CALCULATING MACHINE CO., INC., San Leandro, Calif. Filed Mar. 14, 1950. (Sec. 2f.)

FRIDÉN

Applicant claims ownership of Registration No. 353,891.
FOR CALCULATING MACHINES.
Claims use since May 19, 1934.

Ser. No. 594,764. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed Mar. 28, 1950.

PAGEANT

FOR MOTION PICTURE PROJECTORS.
Claims use since Jan. 30, 1950.

Ser. No. 594,765. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed Mar. 28, 1950.

Signet

FOR PHOTOGRAPHIC CAMERAS.
Claims use since Feb. 17, 1950.

Ser. No. 595,441. AMERICAN OPTICAL COMPANY, Southbridge, Mass. Filed Apr. 8, 1950.

PERFORMER

FOR STILL PICTURE PROJECTORS.
Claims use since Mar. 20, 1950.

Ser. No. 595,453. CONDUCTIVE HOSPITAL ACCESSORIES CORPORATION, Boston, Mass. Filed Apr. 8, 1950.

CONDUCTOMETER

FOR OHMMETERS.
Claims use since Mar. 22, 1950.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 593,484. GRANAT BROS., San Francisco, Calif. Filed Mar. 6, 1950.

Bow-Knot

Applicant claims ownership of Registration No. 274,309.
FOR WATCHES.
Claims use since Feb. 24, 1950.

Ser. No. 593,486. GRANAT BROS., San Francisco, Calif. Filed Mar. 6, 1950.

Lily of the Valley

FOR WATCHES.
Claims use since Feb. 11, 1950.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 594,304. THE ATLANTIC COAST FISHERIES CO., Boston, Mass. Filed Mar. 21, 1950.

TIAMOND

FOR SYNTHETIC DIAMONDS.
Claims use since Mar. 9, 1950.

Ser. No. 594,639. GRANAT BROS., San Francisco, Calif. Filed Mar. 25, 1950.

LOVE-LOOP

Applicant claims ownership of Registration No. 271,717.
FOR FINGER RINGS.
Claims use since Nov. 1, 1929.

Ser. No. 594,835. THE ELLMORE SILVER CO., INC., Meriden, Conn. Filed Mar. 29, 1950.

NEPTUNE

FOR STERLING SILVER FLATWARE AND HOLLOWWARE.
Claims use since Feb. 25, 1950.

Ser. No. 594,839. ALEXANDER HERBST & COMPANY, New York, N. Y. Filed Mar. 29, 1950.

HERON

FOR JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES — NAMELY, NECKLACES, BRACELETS, EARRINGS, ORNAMENTAL PINS AND CLIPS, BROOCHES, LOCKETS, PENDANTS, FINGER RINGS, WATCH BRACELETS, SCATTER PINS, BREAST PINS, LAPEL PINS, CUFF LINKS, TIE PINS AND CLASPS, ALL MADE IN WHOLE OR PART OF PRECIOUS METALS.
Claims use since Mar. 7, 1950.

Ser. No. 595,071. FEATURE RING CO., INC., New York, N. Y. Filed Apr. 1, 1950.

GLORIFIED

FOR GOLD AND PLATINUM JEWELRY—NAMELY, FINGER RINGS.
Claims use since Dec. 15, 1949.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 512,014. NO-SAG SPRING COMPANY, Warren Township, Macomb County, Mich. Original filed, act of 1905, Nov. 4, 1946; amended to application under act of 1946, Principal Register, Mar. 22, 1948. (Sec. 2f.)

no-sag

FOR SPRINGS, SPRING ASSEMBLIES AND UNITS FOR UPHOLSTERED FURNITURE.
Claims use since 1935; and since Aug. 30, 1946, in the form shown.

Ser. No. 564,856. BIGGS ANTIQUE COMPANY, INCORPORATED, Richmond, Va. Filed Sept. 9, 1948. (Sec. 2f.)

BIGGS

The drawing is lined for shading.
FOR WOODEN AND UPHOLSTERED FURNITURE—NAMELY, SOFAS, STOOLS, LOVE SEATS, WING CHAIRS, BARREL CHAIRS, LOUNGE CHAIRS, CHAISE LOUNGE, SLIPPER CHAIRS, SETTEES, FOOTSTOOLS, TILT TOP TABLES, HANGING SHELVES, COFFEE TABLES, STANDS, URN TABLES, SOFA TABLES, CARD TABLES, MAGAZINE RACKS, DESKS, SECRETARIES, BOOK CASES, NESTS OF TABLES, COCKTAIL TABLES, LAMP TABLES, POWDER TABLES, PIE CRUST TILT TABLES, DRUM TABLES, COMMODE TABLES, END TABLES, SEWING TABLES, WIG STANDS, CELLARETTES, DRESSING CHESTS, DRESSING TABLES, MIRRORS, CHESTS, BEDS, BENCHES, NIGHT TABLES, HIGH BOYS, LOW BOYS, SIDEBOARDS, SERVERS, DINING ROOM TABLES: CHAIRS,

ARM AND SIDE; BUFFETS, SERVING TABLES, COMMODES, CHINA PRESSES, CORNER CABINETS, TEA TABLES, OTTOMANS, BOOK TABLES, BREAKFRONTS, SHAVING STANDS, MUFFIN STANDS, AND BED STEPS.
Claims use since November 1932 as to the mark shown; and since 1892 as to "Biggs."

Ser. No. 567,719. SLEEPMASTER PRODUCTS COMPANY, INC., Newark, N. J. Filed Oct. 27, 1948.

MARSMASTER

FOR MATTRESSES, BED SPRINGS, BOX SPRINGS, FURNITURE SPRINGS, PILLOWS, STUDIO COUCHES, SOFA BEDS, METAL BEDS, WOODEN BEDS, CUSHIONS FOR SOFAS AND CHAIRS AND PADS FOR SOFAS AND CHAIRS, FOLDING COTS, GLIDERS, HEADBOARD BEDS, SPONGE RUBBER AND SYNTHETIC RUBBER PRODUCTS FOR THE UPHOLSTERY OF SOFAS, CHAIRS, MATTRESSES AND PILLOWS, AND GLIDER BEDS.
Claims use since July 30, 1948.

Ser. No. 568,339. WOODS AND WATERS, INC., Vicksburg, Mich. Filed Nov. 6, 1948.

FOR DISPLAY RACKS FOR USE IN STORES IN DISPLAYING FISHING TACKLE AND FISHING BAIT.
Claims use since Sept. 17, 1948.

Ser. No. 573,544. HABITANT SHOPS, INC., Bay City, Mich. Filed Feb. 9, 1949.

Habitant

FOR TRESTLE TABLES, SETTEES, DAVENPORTS, LOUNGES, SOFAS, OTTOMAN BENCHES, TABLE BENCHES, REFECTORY TABLES, END TABLES, SIDE TABLES, HOUSEHOLD CHAIRS, FIRESIDE BENCHES, DAY BEDS, CHAISE LONGUES, BEDS, NIGHT STANDS, STOOLS, FOOTSTOOLS, HATRACKS, HANGING SHELVES, MAGAZINE RACKS, HIGH CHAIRS, DESKS, DRESSERS, AND CHESTS OF DRAWERS.
Claims use since Mar. 1, 1924.

Ser. No. 579,092. FRONTIER MANUFACTURING COMPANY, Dallas, Tex. Filed May 19, 1949.

FRONTIER

FOR DIVIDED UPRIGHT WALL BINS, SHELVING UNITS OR SETS OF SHELVES FOR COMMERCIAL USES, DISPLAY RACKS, STANDS AND TABLES IN THE NATURE OF FURNITURE, METAL STORAGE CABINETS, AND STORAGE LOCKERS.
Claims use since Feb. 15, 1949.

Ser. No. 591,948. LESTER M. OLSON, Portland, Oreg. Filed Feb. 3, 1950.

SANIFOOT

FOR SANITARY FOOT RESTS SUCH AS ARE USED IN SHOE PARLORS.
Claims use since June 13, 1949.

Ser. No. 591,953. PULLMAN COUCH COMPANY, Chicago, Ill. Filed Feb. 3, 1950.

TURNSTYLE

FOR UPHOLSTERED SOFAS AND CHAIRS.
Claims use since Jan. 9, 1950.

Ser. No. 592,163. EDWARD BEAL REDHEAD, Malverne, N. Y. Filed Feb. 8, 1950.

Silverscheme

FOR SILVERWARE RACKS INSTALLED IN FURNITURE DRAWERS.
Claims use since Jan. 12, 1950.

CLASS 33

GLASSWARE

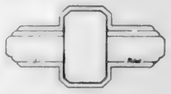
Ser. No. 585,306. AMERICAN PLASTICRAFT COMPANY, New York, N. Y. Filed Sept. 26, 1949.

FOR WATCH CRYSTALS MADE OF MOLDED PLASTICS.
Claims use since Aug. 30, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 560,080. AIR CON SERVICE, INC., New York, N. Y. Filed June 24, 1948.



The word "Air" is disclaimed.
FOR ROOM VENTILATOR AND COOLER UNIT EMBODYING A FILTER AND A POWER OPERATED FAN FOR SHIPS, HOMES, AND OFFICES AND FACTORIES.
Claims use since Mar. 5, 1948.

Ser. No. 579,073. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky. Filed May 19, 1949. (Sec. 2f.)

Belknap

Applicant claims ownership of Registration No. 70,314.
FOR GAS RANGES AND STOVES.
Claims use since June 1, 1900.

Ser. No. 584,075. PLIBRICO JOINTLESS FIREBRICK COMPANY, Chicago, Ill. Filed Aug. 26, 1949.

Pli*jet

The word "jet" is disclaimed.
FOR EQUIPMENT FOR PROVIDING STREAMS OF AIR FORCED INTO A FURNACE FIREBOX ABOVE THE FIRE TO ASSIST THE PROCESS OF COMBUSTION.
Claims use since June 8, 1949.

Ser. No. 595,309. THE CROWE ENGINEERING COMPANY, Cincinnati, Ohio. Filed Apr. 6, 1950.

ARTILLERY

FOR COMBUSTION BURNERS ADAPTED TO MELTING OF METAL IN STEEL MILLS.
Claims use since Dec. 1, 1940.

Ser. No. 595,561. ALBERT P. ROBINSON, doing business under the assumed name of Tristop Co., Seattle, Wash. Filed Apr. 11, 1950.

Hearthside

FOR PORTABLE CIRCULATING FIREPLACE HEATERS.
Claims use since May 1, 1949.

CLASS 35

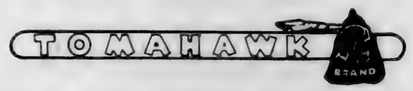
BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 565,656. SEIBERLING RUBBER COMPANY, Barberton, Ohio. Filed Sept. 22, 1948. (Sec. 2f.)

Safe·Aire

FOR PNEUMATIC RUBBER TIRES.
Claims use since Mar. 18, 1948.

Ser. No. 581,811. THE LA MASKIN COMPANY, Chicago, Ill. Filed July 12, 1949.



The word "Brand" is disclaimed.
FOR AUTOMOTIVE ACCESSORIES—NAMELY, RADIATOR HOSE, FAN BELTS, WINDSHIELD WIPER HOSE, BY-PASS HOSE, TIRE PUMP HOSE, RUBBER ANTI-RATTLERS, COWL VENT GASKETS, AND AIR HOSE.
Claims use since March 1948.

Ser. No. 582,608. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed July 28, 1949.

WORLD BESTOS

Applicant claims ownership of Registrations Nos. 207,691 and 256,626.
FOR TRANSMISSION, BRAKE, AND FRICTION LININGS.
Claims use since Oct. 15, 1924.

Ser. No. 586,054. HASTINGS MANUFACTURING COMPANY, Hastings, Mich. Filed Oct. 10, 1949. (Sec. 2f.)

DUBL-TEST

Applicant claims ownership of Registration No. 269,793.
FOR PISTON RINGS.
Claims use since Mar. 1, 1923.

Ser. No. 587,194. HAMILTON KENT MANUFACTURING COMPANY, Kent, Ohio. Filed Nov. 2, 1949.

TYLOX

FOR GASKETS.
Claims use since Oct. 17, 1944.

Ser. No. 595,793. MCQUAY-NORRIS MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 15, 1950. (Sec. 2f.)

McQUAY-NORRIS

Applicant claims ownership of Registrations Nos. 422,882, 427,343, 427,344, 431,368, 432,299, 506,478, 511,755, and 517,094.
FOR PISTON RINGS FOR INTERNAL COMBUSTION ENGINES, EXPANDER SPRINGS AND SHIMS FOR USE WITH SUCH RINGS; AND WATER PUMP PACKINGS.
Claims use since December 1910.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 559,424. PERMO INCORPORATED, Chicago, Ill. Filed Mar. 17, 1948. (Sec. 2f.)

LIFELONG

Applicant claims ownership of Registrations Nos. 393,832 and 414,554.
FOR PHONOGRAPH STYLI AND NEEDLES.
Claims use since Sept. 2, 1941.

CLASS 37
PAPER AND STATIONERY

Ser. No. 577,793. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Apr. 27, 1949.

Turkey
EXPRESS

The word "Express" is disclaimed.
FOR WRAPPING PAPER.
Claims use since Mar. 31, 1930.

Ser. No. 590,898. NAT H. KRISTEL, doing business under the name and style of Commercial Envelope Manufacturing Company, New York, N. Y. Filed Jan. 14, 1950.

KOMENCO BOND

The word "Bond" is disclaimed.
FOR BOND PAPER.
Claims use since Sept. 12, 1946.

Ser. No. 591,103. PERRY PROCESSES, INCORPORATED, Cleveland, Ohio. Filed Jan. 19, 1950.

PERIPAC

FOR MOLDED CORRUGATED PAPER.
Claims use since Sept. 23, 1949.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 579,425. INTERNATIONAL BUSINESS MACHINES CORPORATION, New York, N. Y. Filed May 24, 1949.

IBM

FOR BOOKS, PAMPHLETS, LEAFLETS, PERIODICALS, CATALOGUES, PRINTED DISPLAY CARDS, TEXT AND LESSON BOOKS, EDUCATIONAL CHARTS.
Claims use since January 1947.

Ser. No. 584,435. BARRON'S PUBLISHING COMPANY, INC., New York, N. Y. Filed Sept. 3, 1949. (Sec. 2f.)

BARRON'S
National Business and Financial Weekly

Applicant claims ownership of Registration No. 320,998.
FOR PERIODICAL.
Claims use since Aug. 10, 1942.

Ser. No. 588,689. A. J. HOLMAN COMPANY, Philadelphia, Pa. Filed Dec. 2, 1949. (Sec. 2f as to "Holman.")

The Holman Handy Bible

The drawing is lined for red. The words "Handy" and "Bible" are disclaimed.
FOR BIBLES.
Claims use since Aug. 8, 1949, on the mark as shown; and since 1872 on the word "Holman."

Ser. No. 589,042. HARRY RUBIN, New York, N. Y. Filed Dec. 8, 1949.

TRAVEL-TALK

FOR BOOKLETS ISSUED IN A SERIES PERTAINING TO COMMON PHRASE TRANSLATIONS IN SEVERAL LANGUAGES.
Claims use since Sept. 15, 1949.

CLASS 39
CLOTHING

Ser. No. 527,953. REAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed July 5, 1947. (Sec. 2f.)

REALSILK

Applicant claims ownership of Registrations Nos. 146,499, 173,566, and 176,929.
FOR MEN'S HOSIERY, NECKTIES, OUTER SHIRTS, UNDERWEAR, PAJAMAS, AND ROBES, AND WOMEN'S COATS, SUITS, DRESSES, SLIPS, NIGHTGOWNS, PAJAMAS, NEGLIGEES, PANTIES, BLOOMERS, UNION SUITS, AND HOSIERY.
Claims use since December 1920.

Ser. No. 569,531. PERFECT TROUSER CO., Philadelphia, Pa. Filed Nov. 27, 1948.

The representation of the man and boy is fanciful. The wording "Tailored to Perfection by Perfect Trouser Company" and the representation of the father and son are disclaimed.
FOR TROUSERS FOR MEN AND BOYS.
Claims use since May 1948.

Ser. No. 584,371. MYLAN MANUFACTURING CO., INC., New York, N. Y. Filed Aug. 30, 1949. (Sec. 2f.)

VERNON

FOR MEN'S AND BOYS' SHIRTS.
Claims use since July 1, 1939.

Ser. No. 592,313. THE WALKER T. DICKERSON COMPANY, Columbus, Ohio. Filed Feb. 11, 1950. (Sec. 2f as to "Dickerson.")

The slogan "Ultra in Design" and the representation of a shoe are disclaimed. Applicant claims ownership of Registrations Nos. 303,658, 315,260, and others.
FOR WOMEN'S SHOES.
Claims use since Dec. 1, 1949, as to the mark shown, and since February 1930 as to "Dickerson."

CLASS 40
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 551,888. THE GLEMBY COMPANY, INC., New York, N. Y. Filed Mar. 13, 1948.

WHIRL-A-WAVE

FOR COMBINATION DEVICE IN THE NATURE OF A COMB-CURLER, ADAPTED TO FORM A WAVE AS IT IS BEING USED.
Claims use since Feb. 19, 1948.

CLASS 42
KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 561,381. CONTINENTAL MILLS, INC., Philadelphia, Pa. Filed Jan. 22, 1948. (Sec. 2f as to "Heathersheen.")

CONTINENTAL
Heathersheen

Applicant claims ownership of Registrations Nos. 155,216, 157,483, 290,055, and 392,801.
FOR KNITTED AND WOVEN WOOLEN AND WORSTED CLOTHS, JERSEY CLOTHS, EIDERDOWN, CHINCHILLAS, AND KNITTED FABRICS HAVING A FLEECY PILE OR SURFACE.
Claims use since Apr. 14, 1941.

Ser. No. 585,367. THE CALICO PRINTERS' ASSOCIATION LIMITED, Manchester, England. Filed Sept. 27, 1949.

Applicant admits that a device of a sun is common to the trade in cotton piece goods in the country of origin of the mark. Applicant claims ownership of British Registration No. 675,112, dated Dec. 3, 1948; and United States Registration No. 438,810, dated May 11, 1948.
FOR PIECE GOODS WHOLLY OR MAINLY OF COTTON OR RAYON.

Ser. No. 597,095. REEVES BROTHERS, INC., New York, N. Y. Filed May 8, 1950.

The words "Spinning," "Weaving," "Dyeing," "Finishing," and "Fabrics" are disclaimed. Applicant claims ownership of Registrations Nos. 376,993, 402,816, and 416,173.
FOR PIECE GOODS OF COTTON, RAYON, WOOL, AND SYNTHETIC FIBRES.
Claims use since Apr. 21, 1944.

CLASS 46
FOODS AND INGREDIENTS OF FOODS

Ser. No. 494,720. SUNNY JIM CANDY COMPANY, Joplin, Mo. Original filed, act of 1905, Jan. 12, 1946; amended to application under act of 1946, Principal Register, July 8, 1948.

Sunny Jim's

FOR CANDY.
Claims use since June 25, 1938.

Ser. No. 537,839. THE TORBITT & CASTLEMAN COMPANY, Louisville, Ky. Filed Oct. 14, 1947.

FOR TABLE SYRUPS—NAMELY, CRYSTAL WHITE SYRUP, GOLDEN SYRUP, AND WAFFLE SYRUP.
Claims use since 1899.

Ser. No. 537,842. THE TORBITT & CASTLEMAN COMPANY, Louisville, Ky. Filed Oct. 14, 1947.

BOB WHITE

FOR TABLE SYRUPS—NAMELY, CRYSTAL WHITE SYRUP, GOLDEN SYRUP, AND WAFFLE SYRUP.
Claims use since 1899.

Ser. No. 540,319. ROYAL CRYSTAL SALT COMPANY, Salt Lake City, Utah. Filed Nov. 6, 1947.

The drawing is lined for the colors red and blue.
FOR SALT FOR USE FOR LIVE STOCK.
Claims use since July 1, 1939.

Ser. No. 540,718. RUGGLES & RADEMAKER SALT COMPANY, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois. Filed Nov. 10, 1947.

R-R
Right & Ready

The expression "Right & Ready" is disclaimed.
FOR SALT.
Claims use since Jan. 15, 1931.

Ser. No. 544,488. VICTORIA AVENUE CITRUS ASSOCIATION, Riverside, Calif. Filed Dec. 16, 1947. (Sec. 2f.)

LINCOLN

FOR FRESH CITRUS FRUITS.
Claims use since 1903.

Ser. No. 546,852. LAKESIDE PACKING COMPANY, Manitowoc, Wis. Filed Jan. 13, 1948.

EUREKA

FOR EARLY JUNE PEAS, CUT WAX BEANS, CUT GREEN BEANS, CREAM STYLE GOLDEN CORN, WHOLE KERNEL CORN.
Claims use since Nov. 1, 1898.

Ser. No. 549,224. E. J. BRACH & SONS, Chicago, Ill. Filed Feb. 10, 1948. (Sec. 2f as to "Brach's.")

Brach's

CANDY SHOP

The words "Candy Shop" are disclaimed. Applicant claims ownership of Registration No. 516,342.
FOR CANDY.
Claims use since Sept. 13, 1947, as to the mark shown; and since 1904 as to "Brach's" alone.

Ser. No. 550,810. KERN FOOD PRODUCTS, INC., Los Angeles, Calif. Filed Feb. 28, 1948. (Sec. 2f.)

Kern's

Applicant claims ownership of Registration No. 301,849
FOR FRUIT PRESERVES, JAMS AND JELLIES, TOMATO JUICE, TOMATO CATSUP, CHILI SAUCE, TABLE SYRUP, AND WHITE AND CIDER VINEGAR.
Claims use since June 21, 1930.

Ser. No. 557,017. THE COLORADO MILLING & ELEVATOR CO., doing business under the style name of The St. Anthony Flour Mills, Denver, Colo., and St. Anthony, Idaho. Filed May 14, 1948.

MUSTANG

The drawing is lined to indicate red.
FOR WHEAT FLOUR.
Claims use since 1927.

Ser. No. 557,977. WESTERN STATES BEAN COOPERATIVE, Denver, Colo. Filed May 27, 1948.

Outwest

FOR DRY BEANS INCLUDING PINTOS, NORTHERNS, BABY LIMAS, AND SMALL REDS.
Claims use since May 4, 1948.

Ser. No. 557,978. WESTERN STATES BEAN COOPERATIVE, Denver, Colo. Filed May 27, 1948.

Outwest

FOR DRY BEANS INCLUDING PINTOS, NORTHERNS, BABY LIMAS, AND SMALL REDS.
Claims use since May 4, 1948.

Ser. No. 558,070. TOBIN PACKING CO., INC., Rochester and Albany, N. Y. Filed June 10, 1948.

FORMRITE

FOR BONED, CURED, AND SMOKED MEAT PRODUCTS—NAMELY, DRIED BEEF AND SMOKED PORK SHOULDERS.
Claims use since Jan. 19, 1948.

Ser. No. 565,817. S AND P SALES COMPANY, Seattle, Wash. Filed Sept. 24, 1948.

Surf Board

FOR CANNED FISH.
Claims use since Sept. 3, 1948.

Ser. No. 566,926. FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Oct. 13, 1948.

ORCHID

FOR WHEAT FLOUR.
Claims use since Jan. 7, 1915.

Ser. No. 568,101. THEODORE H. EGGERS, San Francisco, Calif. Filed Nov. 3, 1948.

PIK-NIK

FOR CANNED SHOE-STRING POTATOES.
Claims use since February 1939.

Ser. No. 570,362. ANTOINE H. FORAT, doing business as S. A. F. I. E. X., New York, N. Y. Filed Dec. 11, 1948.

BLASON ROYAL DE FRANCE

FOR CANNED VEGETABLES, FRUITS, AND FISH.
Claims use since Nov. 22, 1948.

Ser. No. 573,671. FRANCES T. MORAN, doing business as The Goggin Company, Arlington, Va. Filed Feb. 10, 1949.

The phrase "Sugar Pone Dowdy by Goggin," is disclaimed.
FOR CAKES.
Claims use since Oct. 14, 1948.

Ser. No. 574,570. CHIN & LEE CO., INC., New York, N. Y. Filed Feb. 26, 1949. (Sec. 2f.)

The stippling represents shading only.
FOR CANNED CHOP SUEY AND NOODLES, SOY SAUCE, TEA BALLS AND PACKAGED NOODLE SOUP.
Claims use since April 1939.

Ser. No. 576,844. BROOK HILL FARMS, INC., Chicago, Ill. Filed Apr. 9, 1949.

TERRA-TEST

The word "Test" is disclaimed.
FOR FRESH MILK—NAMELY, COW'S MILK AND GOAT'S MILK.
Claims use since Feb. 20, 1946.

Ser. No. 576,846. THE BUCKEYSTOWN CANNING COMPANY, Buckeystown, Md. Filed Apr. 9, 1949.

Mellowgold

The drawing is lined for shading.
FOR CANNED SWEET CORN, SUCCOTASH, AND LIMA BEANS.
Claims use since August 1948.

Ser. No. 577,757. UNITED CHEESE CORP., doing business as United Cheese Co., Chicago, Ill. Filed Apr. 20, 1949.

DE MILL

FOR CHEESE.
Claims use since Oct. 28, 1943.

Ser. No. 579,331. THE E. KAHN'S SONS CO., Cincinnati, Ohio. Filed May 23, 1949.

KAB

FOR HYDROGENATED LARD, USED AS FOOD SHORTENING.
Claims use since Apr. 25, 1949.

Ser. No. 582,245. MORRIS SIEGEL, Wilkes-Barre, Pa. Filed July 20, 1949.

DAYTONA

FOR CANNED VEGETABLES.
Claims use since May 2, 1949.

Ser. No. 583,333. THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed Aug. 11, 1949. (Sec. 2f.)

Bluegrass

FOR BUTTER, WHOLE EGGS, AND CHEESE.
Claims use since 1927.

Ser. No. 584,086. SOUTHGATE BROKERAGE CO. INC., doing business as Southgate Foods Co., Norfolk, Va. Filed Aug. 26, 1949. (Sec. 2f.)

LYNNHAVEN

Applicant claims ownership of Registration No. 264,632.
FOR CANNED VEGETABLES, PREPARED MUSTARD AND MUSTARD BRAN, CANNED HERRING ROE, PEANUT BUTTER, AND VINEGAR.
Claims use since Oct. 1, 1928.

Ser. No. 584,798. BURALEY & COMPANY, INC., Fort Wayne, Ind. Filed Sept. 14, 1949.

LITTLE ELF

Applicant claims ownership of Registrations Nos. 176,758, 391,778, and 135,932.

FOR CANNED FRUIT JUICES—NAMELY, ORANGE JUICE, ORANGE AND GRAPEFRUIT JUICE, PINEAPPLE JUICE, AND GRAPEFRUIT JUICE; CANNED TOMATO JUICE; CANNED BEAN SPROUTS, CANNED VEGETABLE CHOP SUEY, CANNED CHOW-MEIN NOODLES, CANNED POTATO STICKS; EGG NOODLE AND CHICKEN DINNER, POPCORN IN ITS NATURAL STATE; PREPARED BREAKFAST CEREALS; WHEAT GERM; PANCAKE MIX; PIE CRUST MIX; COMBINATION BUCKWHEAT, CORN AND WHEAT FLOUR PREPARATION; WHEAT FLOUR; CAKE FLOUR; SALAD DRESSINGS; SANDWICH SPREAD; CHILI SAUCE; SALT; TEA; CANDIES; COARSELY GROUND PEANUT BUTTER; DATES; HONEY; FRUIT PECTIN; AND GELATIN DESSERT PREPARATION.

Claims use since Feb. 15, 1919.

Ser. No. 585,313. CENTRAL CALIFORNIA BERRY GROWERS ASSOCIATION, San Francisco, Calif. Filed Sept. 26, 1949.

Californ-Yum

The representation of the berries is disclaimed.
FOR FRESH STRAWBERRIES.
Claims use since Aug. 8, 1949.

Ser. No. 585,466. WESSON OIL & SNOWDRIFT CO., INC., New Orleans, La. Filed Sept. 28, 1949.

Blue Plate

FOR CANNED SHRIMP, CANNED OYSTERS, CANNED CRABMEAT, CANNED BLACKBERRIES, AND CANNED VEGETABLES—NAMELY, STRINGLESS BEANS, OKRA, CROWDER PEAS, OKRA AND TOMATOES, TOMATOES, SPINACH, TURNIP GREENS, WHITE POTATOES, GREEN BEANS AND WHITE POTATOES, MUSTARD GREENS, SWEET POTATOES, BEETS, AND PIMENTOS.

Claims use since January 1934.

Ser. No. 587,498. ORLEANS CANNING COMPANY, Chicago, Ill. Filed Nov. 8, 1949. (Sec. 2f.)

ORLEANS

FOR CANNED DOG FOOD.
Claims use since Dec. 6, 1935.

Ser. No. 587,847. H. C. BOHACK CO. INC., Brooklyn, N. Y. Filed Nov. 16, 1949. (Sec. 2f.)

BOHACK'S BEST

The drawing is lined for the colors gold, red and blue. No claim is made to the word "Best." Applicant claims ownership of Registrations Nos. 224,565, 244,280, and others.

FOR CANNED FOOD PRODUCTS—NAMELY, CREAM STYLE WHITE SUGAR CORN, FANCY TOMATOES, FANCY CUT GREEN BEANS, RUN-OF-THE-POD SWEET PEAS, PINEAPPLE JUICE, APRICOTS (HALVES UNPEELED), WHOLE KERNEL GOLDEN CORN, CRUSHED PINEAPPLE, SLICED PINEAPPLE, FANCY CUT WAX BEANS, SMALL SIZE SIFTED SWEET PEAS, SUCCOTASH, TINY GREEN LIMA BEANS, PURPLE PLUMS, SHRIMP, CHERRIES, GRAPEFRUIT JUICE, DRIED PRUNES, PEARS (HALVES), SPINACH, SMALL WHOLE GREEN STRINGLESS BEANS, ASPARAGUS SPEARS, FANCY DICED CARROTS, YELLOW CLING PEACHES (HALVES AND SLICED), SHOESTRING BEETS, FANCY SLICED BEETS, WHOLE BEETS, FRUIT COCKTAIL, PEAS AND CARROTS, YELLOW FREESTONE PEACHES (HALVES), CREAM STYLE SWEET GOLDEN CORN, FANCY SAUERKRAUT, PINEAPPLE CHUNKS, APRICOTS (WHOLE UNPEELED), CHILI SAUCE, APPLE CIDER VINEGAR, GRAPE JAM, ASPARAGUS TIPS (LARGE ALL GREEN), TOMATO JUICE, FRENCH STYLE BEANS, FANCY SHOESTRING CARROTS, FANCY SWEET PEAS, WHITE DISTILLED VINEGAR, KETCHUP PRESERVES (APRICOT, BLACKBERRY, CHERRY, PEACH, PINEAPPLE, RASPBERRY AND STRAWBERRY), DICED BEETS, JELLY (BLACKBERRY, CRAB APPLE, CURRANT, GRAPE, QUINCE, RED RASPBERRY AND STRAWBERRY), ASPARAGUS (WHITE AND GREEN TIPPED), BLUEBERRIES, AND GRAPEFRUIT SECTIONS.

Claims use since March 1942.

Ser. No. 588,548. CALIFORNIA TURKEY GROWERS ASSOCIATION, San Francisco, Calif. Filed Nov. 30, 1949.

California LADY

The word "California" is disclaimed.
FOR POULTRY—NAMELY, FRESH DRESSED TURKEYS.
Claims use since Oct. 31, 1949.

Ser. No. 588,549. CALIFORNIA TURKEY GROWERS ASSOCIATION, San Francisco, Calif. Filed Nov. 30, 1949.

CALIFORNIA LORD

The word "California" is disclaimed.
FOR POULTRY—NAMELY, FRESH DRESSED TURKEYS.
Claims use since Oct. 31, 1949.

Ser. No. 588,550. CALIFORNIA TURKEY GROWERS ASSOCIATION, San Francisco, Calif. Filed Nov. 30, 1949.

California QUEEN

The word "California" is disclaimed.
FOR POULTRY—NAMELY, FRESH DRESSED TURKEYS.
Claims use since Oct. 31, 1949.

Ser. No. 590,599. INLAND TRADING COMPANY, Hammond, Ind. Filed Jan. 10, 1950.

Inland

FOR FRESH FRUITS—NAMELY, BANANAS, APPLES, PEARS, TOMATOES, ORANGES, LEMONS, GRAPEFRUIT, TANGERINES, LIMES, PEACHES, GRAPES, APRICOTS, PLUMS, CHERRIES, NECTARINES, PERSIMMONS, AND AVOCADOS; AND FRESH VEGETABLES—NAMELY, CELERY.

Claims use since 1925.

Ser. No. 591,051. SCHULER POTATO CHIP CO., INC., Rochester, N. Y. Filed Jan. 18, 1950.

Potato Frills

The word "Potato" is disclaimed.
FOR POTATO WAFERS.
Claims use since July 1940.

Ser. No. 591,098. METROPOLIS CANDY CO., INC., New York, N. Y. Filed Jan. 19, 1950.

SULTAN

FOR CANDY—NAMELY, SESAME BARS.
Claims use since Summer of 1928.

Ser. No. 591,282. CONSUMER'S YEAST COMPANY, San Francisco, Calif. Filed Jan. 23, 1950.

DO-CEL

The word "Do" is disclaimed.
FOR DOUGH ENRICHENER, THE INGREDIENTS BEING PROCESSED FLOURS, SUGARS, MILK, SODIUM BICARBONATE, EGG YOLKS, MONOCALCIUM PHOSPHATE, SODIUM CHLORIDE, CALCIUM LACTATE, YEAST CULTURES, AND SODIUM PYROPHOSPHATE, WHICH GIVE THE DOUGH A RICHER TEXTURE AND RENDER THE DOUGH LESS SUBJECT TO GREASE ABSORPTION.
Claims use since Mar. 10, 1949.

Ser. No. 593,001. ISLAND PACKERS, INC., Wilmington, Del., and Tutuila, American Samoa. Filed Feb. 24, 1950.

ATOLL TUNA

The word "Tuna" is disclaimed.
FOR CANNED TUNA.
Claims use since Dec. 21, 1949.

Ser. No. 593,084. PILLSBURY MILLS, INC., Minneapolis, Minn. Filed Feb. 25, 1950.

REY DEL NORTE

Applicant claims ownership of Registrations Nos. 216,568 and 427,017.
FOR WHEAT FLOUR.
Claims use since October 1924.

Ser. No. 599,679. TEX-O-KAN FLOUR MILLS CO., Dallas, Tex. Filed July 10, 1950. (Sec. 2f.)

BURRUS BEST

The word "Best" is disclaimed.
FOR WHEAT FLOUR.
Claims use since 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 587,568. MARK A. SWARTZ, doing business as Atlantic Fabrics Co., Boston, Mass. Filed Nov. 9, 1949.

The words "Super-Stay" are disclaimed.
FOR FIBROUS MATERIAL IN THE FORM OF SHEETS OR ROLLS, NATURAL OR COLORED, CONSISTING OF VEGETABLE FIBERS IMPREGNATED WITH SYNTHETIC RUBBER USED BY SHOE MANUFACTURERS TO REINFORCE FIBERS AND TO INCREASE THE STRENGTH OF STITCHING AND RESISTANCE TO TEARING BY LAMINATION TO WOVEN AND UNWOVEN FABRICS.
Claims use since Apr. 29, 1948.

Ser. No. 591,406. CROWN CORK & SEAL COMPANY, INC., Baltimore, Md. Filed Jan. 25, 1950.

NEPROLITE

Applicant claims ownership of Registrations Nos. 291,872, 92,905, 132,029, 173,124, and 509,052.
FOR CONTAINER CLOSURES—NAMELY, CROWN SHELLS WITH AND WITHOUT LINERS.
Claims use since Sept. 18, 1933.

Ser. No. 595,240. ATHOL MANUFACTURING COMPANY, Athol, Mass. Filed Apr. 5, 1950.

Terizon

Applicant claims ownership of Registration No. 324,105.
FOR FIBRE BASE COMPOSED OF WOOD AND/OR COTTON AND/OR OTHER FIBRES, IMPREGNATED

WITH COMPOUNDED SYNTHETIC RUBBER OR OTHER BONDING AGENT, AND COATED WITH A VINYL RESIN COMPOUND, FOR USE AS AN ARTIFICIAL LEATHER.

Claims use since Mar. 14, 1950.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 556,473. PERFUMERIA GAL, S. A., Madrid, Spain. Filed May 7, 1948.

The portrait of the lady shown is fanciful. The word "Madrid" is disclaimed. Applicant claims ownership of Spanish Registration No. 44,136-a, dated Apr. 10, 1923.

FOR COLOGNES; TOILET LOTIONS; BAY RUM; BRILLIANTINE OR POMADE IN SALVE FORM TO IMPART LUSTER TO THE HAIR; PERFUME; PETROLEUM JELLY; ROUGE IN CREAM, STICK, AND POWDERED FORM; RICE, TALCUM, FACE, AND BODY POWDERS; EYE-SHADOW AND MASCARA; LIQUID AND POWDERED NAIL POLISH; PASTE, POWDER, AND LIQUID DENTIFRICES; AND CREAM AND LIQUID DEODORANT FOR PERSONAL USE.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 568,286. TOWN TALK POLISH COMPANY, Manchester, England. Filed Nov. 5, 1948. (Classified in Class 4.)

TALKETTE

Priority under Sec. 44(d). British application filed Sept. 16, 1948; Reg. No. 672,743.

FOR METAL POLISHES AND POLISHING CLOTHS IMPREGNATED WITH METAL POLISHING MATERIAL, AND CLEANING, POLISHING, SCOURING AND ABRASIVE PREPARATIONS FOR SILVER, SILVER PLATE, GOLD, GOLD PLATE, JEWELRY, AND LIKE METAL SURFACES.

Ser. No. 584,708. WILSOLVE CORPORATION, Baltimore, Md. Filed Sept. 10, 1949.

FOR SOLVENTS FOR USE IN CLEANING FLOORS, FURNITURE, WOODWORK, TILE HEARTHS, AND METAL SURFACES OF WAX GREASE, AND STAINS, AND WHICH ALSO MAY BE USED AS A SOLVENT FOR REMOVING VARNISH AND SHELLAC.

Claims use since May 1, 1948.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 573,100. SCIENTIFIC DESIGN COMPANY, INC., Dover, Del., and New York, N. Y. Filed Jan. 31, 1949. (Classified in Class 103.)

FOR DRAFTING AND PREPARATION OF SPECIFICATIONS FOR CLIENTS TO BE USED IN THE DESIGN, CONSTRUCTION AND ENGINERING OF MANUFACTURING PLANTS.

Claims use since Feb. 19, 1948.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 573,100. SCIENTIFIC DESIGN COMPANY, INC., Dover, Del., and New York, N. Y. Filed Jan. 31, 1949. (Classified in Class 103.)

FOR DRAFTING AND PREPARATION OF SPECIFICATIONS FOR CLIENTS TO BE USED IN THE DESIGN, CONSTRUCTION AND ENGINERING OF MANUFACTURING PLANTS.

Claims use since Feb. 19, 1948.

Ser. No. 579,764. STANOLIND OIL AND GAS COMPANY, Tulsa, Okla. Filed May 31, 1949.

HYDRAFRAC

FOR OIL-WELL SERVICES—NAMELY, HYDRAULICALLY FRACTURING OIL AND GAS PRODUCING FORMATIONS TO INCREASE THE PRODUCTIVITY THEREOF.

Claims use since Mar. 17, 1949.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,320. GAS MIXING APPARATUS FOR USE IN THE MIXING OF GASES FOR VARIETIES OF INDUSTRIAL OR OTHER USES. SELAS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed Jan. 26, 1946, Serial No. 495,511. Published June 6, 1950. Class 23.

444,321. CUTTING TOOLS, HYDRAULIC ACTUATING UNITS, MACHINE TOOL ASSEMBLIES INCLUDING TOOLS FOR TURNING, ETC. ODIN CORPORATION, Chicago, Ill.
Filed Feb. 8, 1946, Serial No. 496,262. Published July 25, 1950. Class 23.

444,322. INTERIOR ORNAMENTAL WINDOW TOPS. SAM PARKOLA, doing business as Kiddie Kornice Co., Brooklyn, N. Y.
Filed May 7, 1946, Serial No. 501,591. Published Aug. 15, 1950. Class 32.

444,323. HYDRAULIC DEEP AND SHALLOW WELL PUMPS AND PARTS THEREFOR. MILLS E. SPANGBERG, doing business as Hydraw Company, Freeport, Ill., assignor to Hydraw Company, Freeport, Ill., a corporation of Illinois.
Filed July 27, 1946, Serial No. 506,394. Published June 13, 1950. Class 23.

444,324. POPCORN, UNPOPPED. JAMES E. DONALDSON, Chicago, Ill., assignor to Manley Inc., Kansas City, Mo., a corporation of Missouri.
Filed Nov. 12, 1946, Serial No. 512,390. Published May 11, 1948. Class 46.

444,325. BREAD WRAPPERS. RAPINWAX PAPER COMPANY, Minneapolis, Minn.
Filed Nov. 16, 1946, Serial No. 512,748. Published Aug. 29, 1950. Class 37.

444,326. CLEANING PREPARATION IN LIQUID FORM FOR CLEANING AND POLISHING PAINTED, ENAMELED, AND VARNISHED SURFACES. ROBERT F. GAUGER, doing business as Beam Chemical Co., Berkeley, Calif.
Filed Dec. 14, 1946, Serial No. 514,268. Published Aug. 15, 1950. Class 4.

444,327. SMOOTHING AND SHARPENING ABRASIVE ELEMENTS—NAMELY, ABRASIVE STONES FOR SMOOTHING MOTOR AND GENERATOR COMMUTATORS AND SLIP RINGS AND PARTS THEREOF. SITTLER MANUFACTURING CORP., Chicago, Ill.
Filed Feb. 12, 1947, Serial No. 517,384. Published Aug. 15, 1950. Class 4.

444,328. SAFETY RAZOR BLADE MAGAZINES MADE OF METAL, AND SAFETY RAZOR BLADE DISPENSERS MADE OF PLASTIC MATERIAL. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed May 3, 1947, Serial No. 521,807. Published July 18, 1950. Class 23.

444,329. DEODORANT AND ANTIPERSPIRANT IN LIQUID FORM FOR PERSONAL USE WITHOUT CLEANSING PROPERTIES. J. B. NETHERCUTT, doing business as Nethercutt Laboratories, Santa Monica, Calif.
Filed May 23, 1947, Serial No. 522,891. Published Jan. 3, 1950. Class 51.

444,330. WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed June 7, 1947, Serial No. 523,742. Published Aug. 22, 1950. Class 27.

444,331. POWER DRIVEN SCREENING MACHINE FOR SCREENING PAPER MAKING STOCK. THE SANDY HILL IRON & BRASS WORKS, Hudson Falls, N. Y.
Filed June 13, 1947, Serial No. 524,159. Published June 6, 1950. Class 23.

444,332. MEN'S SUITS, INCLUDING COATS, VESTS, TROUSERS AND MEN'S OVERCOATS. THE HECHT COMPANY, Washington, D. C., also doing business as The Hub, Baltimore, Md., and Hecht Brothers, New York, N. Y.
Filed June 19, 1947, Serial No. 524,459. Published May 11, 1948. Class 39.

444,333. CRACKERS. THE MARYLAND BISCUIT COMPANY, Baltimore, Md.
Filed July 3, 1947, Serial No. 525,899. Published July 11, 1950. Class 46.

444,334. PAPER TABLETS. WESTERN TABLET & STATIONERY CORPORATION, Dayton, Ohio.
Filed July 3, 1947, Serial No. 526,159. Published Aug. 22, 1950. Class 37.

ACT OF 1920

These registrations are not subject to opposition.

444,335. (CLASS 6. CHEMICALS AND CHEMICAL COMPOSITIONS.) WILLIAM POWER, doing business as Absorb-All Mfg. Co., Frazeysburg, Ohio. Filed Jan. 30, 1946, Serial No. 495,690.

ABSORB-ALL

FOR OIL ABSORBENT COMPOUND FOR FLOORS AND KINDRED USES.

Claims use since May 18, 1945.

444,336. (CLASS 37. PAPER AND STATIONERY.) DISTRICT OF COLUMBIA PAPER MILLS, INC., Washington, D. C. Filed June 8, 1946, Serial No. 503,505.

OFFICIAL

FOR BLOTTING PAPER, BOX COVER PAPER, AND COVER PAPERS.

Claims use since Mar. 21, 1910.

ACT OF 1946, PRINCIPAL REGISTER

533,529. CEREAL BREAKFAST FOOD MADE FROM RYE. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash.
Original filed, act of 1905, Sept. 12, 1944; amended to application under act of 1946, Principal Register, Dec. 20, 1947, Serial No. 474,307. Published July 18, 1950. Class 46.

533,530. CANNED FRUITS AND CANNED FISH. PARROTT & CO., San Francisco, Calif.
Original filed, act of 1905, Feb. 25, 1946; amended to application under act of 1946, Principal Register, Sept. 2, 1947, Serial No. 497,196. Published July 11, 1950. Class 46.

533,531. GRINDING MACHINES, EXCEPT SMALL PORTABLE HAND MANIPULATIVE ELECTRIC GRINDING MACHINES—NAMELY, SURFACE GRINDERS, ETC. THE THOMPSON GRINDER COMPANY, Springfield, Ohio.
Original filed, act of 1905, Apr. 18, 1946; amended to application under act of 1946, Principal Register, Nov. 21, 1947, Serial No. 500,496. Published June 27, 1950. Class 23.

533,532. PORTABLE, ADJUSTABLE, POWER BELT OR GRAVITY CONVEYORS. THE RAPIDS-STANDARD COMPANY, INC., Grand Rapids, Mich.
Original filed, act of 1920, May 24, 1946; amended to application under act of 1946, Principal Register, Aug. 30, 1948, Serial No. 502,711. Published July 25, 1950. Class 23.

533,533. ADAPTORS FOR BIBB SEAT FORMING TOOLS, AIR VALVE KEYS, BASIN WRENCHES, ETC. J. A. SEXAUER MFG. CO., INC., New York, N. Y.
Original filed, act of 1920, July 8, 1946; amended to application under act of 1946, Principal Register, Mar. 1, 1950, Serial No. 505,254. Published June 6, 1950. Class 23.

533,534. DRILL JIGS AND CLAMPS FOR LOCKS AND THE LIKE. THOMAS J. FRASER, doing business as Esco Engineering Company, Cleveland, Ohio, assignee of Esco Engineering Corporation.
Original filed, act of 1905, July 13, 1946; amended to application under act of 1946, Principal Register, July 5, 1947, Serial No. 505,565. Published July 25, 1950. Class 23.

533,535. COATED PAPER FOR PRINTING PURPOSES. CONSOLIDATED WATER POWER & PAPER COMPANY, Wisconsin Rapids, Wis.
Original filed, act of 1905, Aug. 9, 1946; amended to application under act of 1946, Principal Register, Oct. 28, 1949, Serial No. 507,110. Published Aug. 29, 1950. Class 37.

533,536. BRUSHES USED FOR THE PURPOSE OF APPLYING VARNISH AND ENAMEL, ETC. WHITING-ADAMS COMPANY, INC., Boston, Mass.
Original filed, act of 1905, Sept. 27, 1946; amended to application under act of 1946, Principal Register, Sept. 1, 1948, Serial No. 509,900. Published Aug. 15, 1950. Class 29.

533,537. FRESH CITRUS FRUIT. POLIS & HAGAN, Edinburg, Tex.
Original filed, act of 1905, May 5, 1947; amended to application under act of 1946, Principal Register, Sept. 26, 1947, Serial No. 521,925. Published July 11, 1950. Class 46.

533,538. PAPER NAPKINS, PAPER TABLE CLOTHS, PAPER TOWELS, AND PAPER TABLE PLACE MATS. PAPER ART COMPANY, INC., Indianapolis, Ind.
Original filed, act of 1905, May 29, 1947; amended to application under act of 1946, Principal Register, Aug. 22, 1947, Serial No. 523,277. Published Apr. 25, 1950. Class 37.

533,539. LUBRICATING OIL. THE PURE OIL COMPANY, Chicago, Ill.
Filed July 5, 1947, Serial No. 526,832. Published Jan. 31, 1950. Class 15.

533,540. AIR COUPLERS FOR AIR LINES SUPPLYING PNEUMATICALLY OPERATED LUBRICATING APPARATUS; AND AIR BLOW GUNS—NAMELY, VALVED AIR-BLAST NOZZLES FOR CLEANING PURPOSES. LINCOLN ENGINEERING COMPANY, St. Louis, Mo.
Filed July 5, 1947, Serial No. 527,155. Published June 6, 1950. Class 23.

533,541. FIREPLACE SCREENS. PEERLESS MANUFACTURING CORPORATION, INC., Louisville, Ky.
Filed Aug. 1, 1947, Serial No. 530,250. Published Aug. 22, 1950. Class 13.

533,542. CANNED TUNA. HAWAIIAN TUNA PACKERS, LIMITED, Honolulu, Territory of Hawaii.
Filed Aug. 5, 1947, Serial No. 530,504. Published July 18, 1950. Class 46.

533,543. CANDIES—NAMELY, ORANGE SLICES, CHERRY DROPS, MINT PILLOWS, DAINTY MINTS, MINIATURE JELLS, BOSTON-BAKED BEANS, LEMON DROPS, SPEARMINT LEAVES; AND PEANUT PRODUCTS—NAMELY, SUGAR-ROASTED PEANUTS, SALTED PEANUTS, BLANCHED PEANUTS, AND PEANUT BUTTER. LION SPECIALTY CO., Chicago, Ill.
Filed Aug. 14, 1947, Serial No. 531,342. Published June 6, 1950. Class 46.

533,544. BLANK AND PARTIALLY PRINTED FORMS, PARTICULARLY ENVELOPES AND WRITING PAPER. CHARLES O. MOLZ, Detroit, Mich.
Filed Aug. 21, 1947, Serial No. 532,046. Published Aug. 29, 1950. Class 37.

533,545. CANNED VEGETABLES, FRUITS, AND APPLE JUICE. COMSTOCK CANNING CORPORATION, Newark, N. Y.
Filed Aug. 27, 1947, Serial No. 532,563. Published July 11, 1950. Class 46.

533,546. FRESH TOMATOES. HAUDENSHIELD COMPANY, INC., Pittsburgh, Pa.
Filed Aug. 27, 1947, Serial No. 532,589. Published July 4, 1950. Class 46.

533,547. FURNITURE, SPECIFICALLY BOOK CASES, CABINETS, CHAIRS, AND OFFICE FURNITURE. INCA METAL PRODUCTS COMPANY, INCORPORATED, Birmingham, Ala.
Filed July 28, 1947, Serial No. 533,471. Published Aug. 22, 1950. Class 32.

533,548. GUMMED COATED PAPER SHEETS. THE GUMMED PRODUCTS COMPANY, Troy, Ohio.
Filed Sept. 8, 1947, Serial No. 533,736. Published Aug. 15, 1950. Class 37.

533,549. FURNITURE FOR THE HOME, OFFICE, HOTEL, AND CLUB, CONSISTING OF CHAIRS, TABLES, SOFAS, ETC. KITTINGER COMPANY, INC., Buffalo, N. Y.
Filed Sept. 9, 1947, Serial No. 533,904. Published Aug. 15, 1950. Class 32.

533,550. MEN'S OUTER SHIRTS. WILK SHIRT CORPORATION, New York, N. Y.
Filed Sept. 9, 1947, Serial No. 533,957. CONCURRENT USE. Published June 20, 1950. Class 39.

533,551. NUTS IN THE SHELL. WM. A. CAMP CO., INC., New York, N. Y.
Filed Sept. 10, 1947, Serial No. 533,990. Published July 11, 1950. Class 46.

533,552. WHEAT FLOUR. VAN DUSEN HARRINGTON CO., Minneapolis, Minn.
Filed Sept. 29, 1947, Serial No. 536,183. CONCURRENT USE. Published July 18, 1950. Class 46.

533,553. EXPANDED METAL FABRIC. WHEELING CORRUGATING COMPANY, Wheeling, W. Va.
Filed Sept. 29, 1947, Serial No. 536,195. Published July 25, 1950. Class 12.

533,554. SUPERCALENDERED SULPHITE PAPER. RHINELANDER PAPER COMPANY, Rhinelander, Wis.
Filed Oct. 3, 1947, Serial No. 536,712. Published July 25, 1950. Class 37.

533,555. CANDIES. BUNTE BROTHERS, Chicago, Ill.
Filed Oct. 7, 1947, Serial No. 536,998. Published July 18, 1950. Class 46.

533,556. LUBRICANT GREASES. MARQUETTE PETROLEUM PRODUCTS, INC., Chicago, Ill.
Filed Oct. 8, 1947, Serial No. 537,212. Published Jan. 31, 1950. Class 15.

533,557. FLEXIBLE ABRASIVE SHEET MATERIAL OF THE NATURE OF SAND PAPER AND ABRASIVE GRINDING DISKS. ABRASIVE PRODUCTS, INC., South Braintree, Mass.
Filed Oct. 9, 1947, Serial No. 537,272. Published Aug. 15, 1950. Class 4.

533,558. VITAMIN AND MINERAL CONTAINING YEAST PREPARATION FOR FEEDING CATTLE, HORSES, AND PIGS. DELTAFOR AKTIEBOLAG, Orebo, Sweden.
Filed Oct. 10, 1947, Serial No. 537,390. Published July 11, 1950. Class 46.

533,559. CAST ALUMINUM UTENSILS—NAMELY, ALUMINUM SAUCE PANS, ETC. CLUB ALUMINUM PRODUCTS COMPANY, Chicago, Ill.
Filed Oct. 16, 1947, Serial No. 537,987. Published Aug. 22, 1950. Class 13.

533,560. VINEGAR AND PICKLES. ST. LOUIS VINEGAR & CIDER CO., St. Louis, Mo.
Filed Oct. 20, 1947, Serial No. 538,452. Published June 6, 1950. Class 46.

533,561. MATTRESSES. RALEIGH E. PATTERSON, doing business as B & M Mattress Company, Houston, Tex.
Filed Oct. 23, 1947, Serial No. 538,808. Published Aug. 15, 1950. Class 32.

533,562. PORTABLE EXTRACTOR UNITS FOR REMOVAL OF FOREIGN VAPORS, PARTICULARLY HYDROGEN SULPHIDE FROM NATURAL GAS IN THE PRODUCTION AREAS OR ISOLATED LOCATIONS. J. F. PRITCHARD & CO., Kansas City, Mo.
Filed Nov. 10, 1947, Serial No. 540,709. Published Aug. 1, 1950. Class 23.

533,563. SWEET MIXED PICKLES; FRESH CUCUMBERS IN DILL BRINE; ETC. SUSAN BAKER PRODUCTS, INC., New York, N. Y., assignor to Natural Sugars, Inc., New York, N. Y., a corporation of New York, now by change of name Fruit Products Corporation, a corporation of New York.
Filed Oct. 7, 1947, Serial No. 540,752. Published June 13, 1950. Class 46.

533,564. MATTRESSES, BOX SPRINGS, COIL SPRINGS, SOFA BEDS, STUDIO COUCHES, AND LOUNGES. SIMMONS COMPANY, New York, N. Y.
Filed Nov. 12, 1947, Serial No. 540,925. Published Aug. 15, 1950. Class 32.

533,565. TAGS OF TOUGH MATERIAL BEARING MULTICOLORED NUMERALS AND SAFETY PINS FOR AFFIXING SUCH TAGS TO GARMENTS FOR THE PURPOSE OF IDENTIFICATION IN DRY CLEANING, LAUNDERING AND SIMILAR OPERATIONS. CLEANERS CONTROL SYSTEMS, INC., Atlanta, Ga., assignor to Homer C. Hayslip, Atlanta, Ga.
Filed Nov. 14, 1947, Serial No. 541,092. Published Aug. 15, 1950. Class 24.

533,566. CONSOLIDATED CERTIFICATE. IRVING RUBIN, doing business under the name and style of Boston Metal Products Co., Boston, Mass.
BRACKETS FOR MEAT STORAGE CHESTS, SCALE HANGERS, BRACKETS FOR RETAIL STORE DISPLAY COUNTERS, HOOKS FOR MEAT STORAGE CHESTS, STANDARDS FOR SHELVES FOR RETAIL STORES, BRACKETS FOR SHELVES FOR RETAIL STORES AND FISH TRAYS MADE OF BASE METAL. Filed Nov. 25, 1947, Serial No. 542,356. Published July 11, 1950. Class 13.
WHEELED CARRIERS FOR USE IN RETAIL SELF-SERVICE STORES AND TWO-WHEELED HAND TRUCKS FOR USE IN MOVING CRATES, CASES, BARRELS, BAGS AND THE LIKE. Filed Apr. 16, 1949, Serial No. 577,285. Published Feb. 28, 1950. Class 19.
PORTABLE BAKERY CABINETS MADE OF METAL. Filed Apr. 16, 1949, Serial No. 577,284. Published July 18, 1950. Class 32.

533,567. VENETIAN BLIND SLATS. M. M. YOUNG & COMPANY, INC., Chicago, Ill.
Filed Oct. 3, 1947, Serial No. 542,425. Published Aug. 8, 1950. Class 32.

533,568. TEXTILE MACHINERY AND PARTS THEREOF—NAMELY, BALE BREAKERS, OPENERS, ETC. SACO-LOWELL SHOPS, Boston, Mass.
Filed Nov. 28, 1947, Serial No. 542,663. Published July 18, 1950. Class 23.

533,569. BED-SPRINGS. LEGGETT & PLATT, INC., Carthage, Mo.
Filed Dec. 9, 1947, Serial No. 543,818. Published Aug. 22, 1950. Class 32.

533,570. WHEAT FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed Dec. 15, 1947, Serial No. 544,318. Published July 18, 1950. Class 46.

533,571. ROLLING MILL MACHINERY FOR THE MANUFACTURE OF ELONGATED ROLLED METAL BARS, ETC. MORGAN CONSTRUCTION COMPANY, Worcester, Mass.
Filed Oct. 28, 1947, Serial No. 544,670. Published Aug. 8, 1950. Class 23.

533,572. FEED FOR HORSES CONTAINING A COMBINATION OF GRAINS, MOLASSES AND MINERALS; AND FEED FOR CATTLE CONTAINING A COMBINATION OF GRAINS AND MINERALS. HALES & HUNTER CO., Chicago, Ill.
Filed Dec. 19, 1947, Serial No. 544,863. Published July 18, 1950. Class 46.

533,573. SHEET METAL WORKING MACHINERY—NAMELY, TIN BOX, SCREW CAP, AND STEEL DRUM MACHINERY. MOON BROTHERS LIMITED, Birkenhead, England.
Filed Dec. 30, 1947, Serial No. 545,754. Published Aug. 1, 1950. Class 23.

533,574. COFFEE. ATWOOD COFFEE COMPANY, doing business as Atwood Coffee Co., Minneapolis, Minn.
Filed Jan. 5, 1948, Serial No. 546,170. Published July 18, 1950. Class 46.

533,575. WHEAT FLOUR. B. A. ECKHART MILLING CO., Chicago, Ill.
Filed Jan. 14, 1948, Serial No. 546,978. Published June 20, 1950. Class 46.

533,576. WINDOW CLEANER AND POLISH. JOE C. BODE, JR., doing business under the name Manson Distributors, Aurora, Ill.
Filed Jan. 15, 1948, Serial No. 547,100. Published Aug. 15, 1950. Class 4.

533,577. FRESH DECIDUOUS FRUITS. SEBASTOPOL FRUIT GROWERS ASSOCIATION, Sebastopol, Calif.
Filed Jan. 27, 1948, Serial No. 548,106. Published July 18, 1950. Class 46.

533,578. PENCILS. THE YANKEE PENCIL COMPANY, INC., Chicago, Ill.
Filed Jan. 28, 1948, Serial No. 548,208. Published Apr. 12, 1949. Class 37.

533,579. FORGED TOOLS, USED PRINCIPALLY IN THE LOGGING INDUSTRY—NAMELY, TRACTOR HOOKS, LOGGING CLEVISES, LARGE BELL CLEVISES, HANGING SHACKLES, TRACTOR CLEVISES, SPREADER BAR CLEVISES, AND STRAWLINE LOGGING HOOKS. PAUL E. KEENEY, Portland, Oreg.
Filed Feb. 4, 1948, Serial No. 548,744. Published Aug. 22, 1950. Class 13.

533,580. HOSIERY. CHAS. A. STEVENS & CO., Chicago, Ill.
Filed Feb. 9, 1948, Serial No. 549,189. Published Aug. 15, 1950. Class 39.

533,581. SOLVENT PREPARATION FOR USE IN INTERNAL COMBUSTION ENGINES, ETC. AMBERINE PRODUCTS CORPORATION, Columbus, Ohio.
Filed Feb. 17, 1948, Serial No. 549,866. Published Aug. 8, 1950. Class 15.

533,582. LUBRICATING OILS AND WINDMILL AND PUMP JACK OIL. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Feb. 18, 1948, Serial No. 550,080. Published Aug. 22, 1950. Class 15.

533,583. PORTABLE ELECTRIC LAUNDRY WASHERS. CHICAGO ELECTRIC MANUFACTURING COMPANY, Chicago, Ill.
Filed Mar. 9, 1948, Serial No. 551,528. Published Oct. 11, 1949. Class 24.

533,584. BOND PAPER. FOX RIVER PAPER CORPORATION, Appleton, Wis.
Filed Mar. 10, 1948, Serial No. 551,630. Published Aug. 15, 1950. Class 37.

533,585. LUBRICATING OILS AND GREASES, CRYSTAL OIL, CONCRETE FORM OIL, FLUSHING OIL, HYDRAULIC OIL, NEUTRAL OIL AND STORM OIL. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed Mar. 20, 1948, Serial No. 552,616. Published Aug. 1, 1950. Class 15.

533,586. PROTECTIVE CARDBOARD FOLDERS. VICTOR MANUFACTURING & GASKET CO., Chicago, Ill.
Filed Mar. 24, 1948, Serial No. 552,903. Published Aug. 22, 1950. Class 37.

533,587. CANNED FRUITS AND BERRIES. NATIONAL FRUIT CANNING CO., Seattle, Wash.
Filed Mar. 25, 1948, Serial No. 552,999. Published June 27, 1950. Class 46.

533,588. PAPER TOWELS. HOBERG PAPER MILLS, INC., Green Bay, Wis.
Filed Mar. 26, 1948, Serial No. 553,109. Published Aug. 15, 1950. Class 37.

533,589. CANNED FOODS—NAMELY, ASPARAGUS, MUSHROOMS, STRING BEANS, GREEN PEAS, MIXED VEGETABLES, ETC. SOCIETE ANONYME MAISON AMIEUX FRERES, Nantes-Chantenay, France.
Filed May 1, 1948, Serial No. 556,031. Published June 27, 1950. Class 46.

533,590. PNEUMATIC FLANGING MACHINERY. MCCABE MFG. CO., Lawrence, Mass.
Filed Jan. 2, 1948, Serial No. 556,679. Published June 27, 1950. Class 23.

533,591. PASSION FRUIT JUICE (NON-FERMENTED). PASHON PRODUCTS LIMITED, Slough, Buckinghamshire, England.
Filed May 20, 1948, Serial No. 557,463. Published June 27, 1950. Class 46.

533,592. SPRING ASSEMBLIES FOR MATTRESSES. NACHMAN CORPORATION, Chicago, Ill.
Filed May 28, 1948, Serial No. 558,053. Published Aug. 22, 1950. Class 32.

533,593. FILING CABINETS. WASSELL ORGANIZATION, INC., Westport, Conn.
Filed May 28, 1948, Serial No. 558,086. Published Aug. 15, 1950. Class 32.

533,594. KITCHEN CABINETS. THE PARSONS COMPANY, Detroit, Mich., assignor to Parsons Corporation, Detroit, Mich., a corporation of Michigan.
Filed May 29, 1948, Serial No. 558,161. Published Aug. 22, 1950. Class 32.

533,595. BAKER'S MATERIAL—NAMELY, A CHEMICAL USED AS A YEAST FOOD AND BREAD IMPROVER. C. J. PATTERSON COMPANY, Kansas City, Mo.
Filed June 14, 1948, Serial No. 559,174. Published July 4, 1950. Class 46.

533,596. WALL CALENDARS, PICTURE MAILING CARDS, AND GREETING CARDS. BROWN & BIGELOW, St. Paul, Minn.
Filed June 25, 1948, Serial No. 560,179. Published July 4, 1950. Class 38.

533,597. COMBINATION TRAY AND SHELVES FOR HOLDING STATIONERY. STA-TRAY COMPANY, Paterson, N. J.
Filed June 30, 1948, Serial No. 560,502. Published Aug. 15, 1950. Class 32.

533,598. INSERTS DESIGNED TO BE USED IN THE BOWLS OF SMOKING PIPES. LOUIS F. BALSAMO, doing business as The Disket Co., Chicago, Ill.
Filed July 8, 1948, Serial No. 560,857. Published Aug. 15, 1950. Class 8.

533,599. PLASTIC CLOTHESPINS. FLEXON PLASTICS COMPANY, Cleveland, Ohio.
Filed July 15, 1948, Serial No. 561,455. Published Aug. 15, 1950. Class 24.

533,600. PORK PRODUCTS—NAMELY, PORK SAUSAGE. THE TAYLOR PROVISION CO., Trenton, N. J.
Filed July 15, 1948, Serial No. 561,536. Published June 27, 1950. Class 46.

533,601. INDUSTRIAL UNITARY APPARATUS FOR THE SEPARATION OF OXYGEN FROM THE AIR BY LIQUEFACTION AND RECTIFICATION. L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE, Paris, France.
Priority under Sec. 44(*d*). French Registration No. 383,569, filed Feb. 5, 1948.
Filed July 27, 1948, Serial No. 562,265. Published Aug. 1, 1950. Class 23.

533,602. PEARL NECKLACES, PEARL EARRINGS, PEARL BRACELETS, AND STRINGS OF PEARLS AND PEARL JEWELRY FOR PERSONAL WEAR AND ADORNMENT NOT INCLUDING WATCHES. WEINREICH BROTHERS COMPANY, New York, N. Y.
Filed July 29, 1948, Serial No. 562,513. Published Aug. 29, 1950. Class 28.

533,603. MATTRESSES. MAX WEISMAN, doing business as Best Made Bedding Co., New York, N. Y.
Filed Aug. 2, 1948, Serial No. 562,679. Published Aug. 1, 1950. Class 32.

533,604. PLIERS, WRENCHES, SCREW DRIVERS, DRILLS, FILES, PIPE WRENCHES, TAPS AND DIES, LUG STRAPS, CHECK STRAPS, AND SEMI-PORTABLE BENCH GRINDERS. HALL & CO., INC., Spartanburg, S. C.
Filed Aug. 5, 1948, Serial No. 562,852. Published June 6, 1950. Class 23.

533,605. LADIES' HOSIERY. P-C SALES CORPORATION, Wyncote, Pa.
Filed Aug. 11, 1948, Serial No. 563,212. Published Aug. 15, 1950. Class 39.

533,606. SMOKING PIPES. MARK CROSS COMPANY, New York, N. Y.
Filed Aug. 12, 1948, Serial No. 563,268. Published Aug. 15, 1950. Class 8.

533,607. IRONING BOARD PADS AND IRONING BOARD COVERS. BURLINGTON MILLS INCORPORATED, Burlington, Wis.
Filed Aug. 24, 1948, Serial No. 563,898. Published Aug. 8, 1950. Class 24.

533,608. LICORICE PASTILLES. PIX AKTIEBOLAG, Gavle, Sweden.
Filed Aug. 30, 1948, Serial No. 564,402. Published June 6, 1950. Class 46.

533,609. METAL MOULDS FOR MOULDING PLASTIC OBJECTS. SPRINGFIELD TOOL & DIE CO., INC., Springfield, N. J.
Filed Sept. 4, 1948, Serial No. 564,746. Published June 27, 1950. Class 23.

533,610. GASOLENE, KEROSENE, GAS, AND CHARCOAL SMOOTHING IRONS. S. F. APPLIANCES, LIMITED, Ridgefield, N. J.
Filed Sept. 10, 1948, Serial No. 564,969. Published Aug. 8, 1950. Class 24.

533,611. SCORE CARDS. VAL M. BROOKS, doing business as Val M. Brooks Golf Co., Okoboji, Iowa.
Filed Sept. 16, 1948, Serial No. 565,229. Published Aug. 22, 1950. Class 37.

533,612. KITCHEN CABINETS AND KITCHEN TABLES. PARAGON UTILITIES CORPORATION, Brooklyn and New York, N. Y.
Filed Sept. 2, 1948, Serial No. 565,298. Published Aug. 1, 1950. Class 32.

533,613. COFFEE AND TEA. FOOD FAIR STORES, INC., Philadelphia, Pa.
Filed Sept. 17, 1948, Serial No. 565,331. Published July 11, 1950. Class 46.

533,614. BONE SAW. IRVIN C. THOMAS, Burbank, Calif.
Filed Sept. 17, 1948, Serial No. 565,387. Published June 6, 1950. Class 23.

533,615. PAPER NAPKINS. TESTED PAPERS OF AMERICA, INC., Chicago, Ill.
Filed Sept. 18, 1948, Serial No. 565,462. Published Aug. 22, 1950. Class 37.

533,616. DIAMOND-COATED GRINDING WHEEL. KERR MANUFACTURING COMPANY, Detroit, Mich.
Filed Oct. 6, 1948, Serial No. 566,524. Published Aug. 15, 1950. Class 4.

533,617. PREPARATION FOR THE TREATMENT OF HAY FEVER AND ASTHMA. DAVID E. BRUCE, Calhan, Colo.
Filed Oct. 7, 1948, Serial No. 566,566. Published July 25, 1950. Class 18.

533,618. PURE CANE SUGAR. SOUTHDOWN SUGARS, INC., New Orleans, La.
Filed Oct. 12, 1948, Serial No. 566,896. Published June 6, 1950. Class 46.

533,619. PRESERVED FRUIT PRODUCTS—NAMELY, PRESERVED FIGS, PRESERVED DATES, PRESERVED DATE BUTTER, PRESERVED DATE WALNUT SPREAD, AND PRESERVED DRIED FRUIT CAKE. COMMERCE OF CALIFORNIA, Los Angeles, Calif.
Filed Oct. 18, 1948, Serial No. 567,132. Published July 11, 1950. Class 46.

533,620. BENCH VISES AND ADJUSTABLE WORK-HOLDING DEVICES. WILTON TOOL COMPANY, Chicago, Ill.
Filed Oct. 20, 1948, Serial No. 567,298. Published Aug. 1, 1950. Class 23.

533,621. PRINTED BOOKS, PERIODICALS PUBLISHED MONTHLY, AND PAMPHLETS. U. N. WORLD, INC., Wilmington, Del., and New York, N. Y.
Filed Oct. 21, 1948, Serial No. 567,441. Published July 18, 1950. Class 38.

533,622. CAMERAS. PANATION TRADE COMPANY, New York, N. Y.
Filed Oct. 29, 1948, Serial No. 567,878. Published July 18, 1950. Class 26.

533,623. HAND STENCIL KIT CONSISTING OF STENCILS, BRUSH APPLICATORS, AND FLUID. JOSEPH D. SORENSON, doing business as Lah Stencil, Kiester, Minn.
Filed Nov. 4, 1948, Serial No. 568,218. Published Aug. 15, 1950. Class 37.

533,624. KNITTING MACHINES ADAPTED FOR EITHER HAND OPERATION OR POWER OPERATION. MONTELLO PRODUCTS-COMPANY, Ripon, Wis.
Filed Nov. 6, 1948, Serial No. 568,322. Published July 18, 1950. Class 23.

533,625. SLIDE FASTENERS AND STAPLES. A. MEYERS & SONS CORP., New York, N. Y.
Filed Nov 8, 1948, Serial No. 568,393. Published Aug. 22, 1950. Class 13.

533,626. COTTON TIPS FOR DENTAL, MEDICAL, SURGICAL, NURSERY, AND COSMETIC USE; ETC. JOHNSON & JOHNSON, New Brunswick, N. J.
Filed Nov. 12, 1948, Serial No. 568,632. Published Aug. 15, 1950 Class 44.

533,627. DOUGHNUTS. MCCRORY STORES CORPORATION, New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,745. Published Sept. 27, 1949. Class 46.

533,628. PREPARATION CONSISTING OF SALT, SPICES, HERBS, ETC., FOR USE IN PRESERVING SMOKED AND FRESH SAUSAGE. B. HELLER & COMPANY, Chicago, Ill.
Filed Nov. 15, 1948, Serial No. 568,795. Published July 11, 1950. Class 46.

533,629. CHEMICALS USED IN THE INDUSTRIAL TREATMENT OF WATER TO PREVENT SCALING, CORROSION, AND OTHER DETRIMENTAL EFFECTS. EMERY THEODORE ERICKSON, doing business as Erickson Chemical Company, Chicago, Ill.
Filed Nov. 16, 1948, Serial No. 568,841. Published Aug. 29, 1950. Class 6.

533,630. WHOLE AND PART GRAIN WHEAT FLOURS AND CORN MEAL, ETC. EASTERN STATES FARMERS' EXCHANGE, West Springfield, Mass.
Filed Nov. 24, 1948, Serial No. 569,359. Published June 27, 1950. Class 46.

533,631. WHOLE AND PART GRAIN WHEAT FLOURS AND CORN MEAL, AND ROLLED OATS AND ROLLED WHEAT CEREALS; FEED FOR LIVESTOCK AND POULTRY, ETC. EASTERN STATES FARMERS' EXCHANGE, West Springfield, Mass.
Filed Nov. 24, 1948, Serial No. 569,361. Published June 27, 1950. Class 46.

533,632. SOAP DISPENSERS AND PULVERIZERS. VOORHIS-TIEBOUT COMPANY, INC., Red Hook, N. Y.
Filed Nov. 30, 1948, Serial No. 569,653. Published Aug. 22, 1950. Class 13.

533,633. WRAPPING PAPER AND TISSUE PAPER. MILLBROOK PAPER CO., Brooklyn, N. Y.
Filed Dec. 31, 1948, Serial No. 571,450. Published Aug. 15, 1950. Class 37.

533,634. SOIL, HUMUS AND MUSHROOM SPAWN SOLD IN A WOODEN TRAY OR FLAT. HORLACHER MUSHROOM FARMS, Ashtabula, Ohio.
Filed Jan. 3, 1949, Serial No. 571,547. Published Apr. 25, 1950. Class 1.

533,635. BEESWAX, CARNAUBA, CANDELILLA, JAPAN, SUGAR CANE, AND PETROLEUM WAXES AND VARIOUS BLENDS OF THE SAME. TILBURY REFINING CORPORATION, Brooklyn, N. Y.
Filed Jan. 3, 1949, Serial No. 571,585. Published Aug. 15, 1950. Class 6.

533,636. COATED PAPERS. MCLAURIN-JONES CO., Brookfield, Mass.
Filed Jan. 5, 1949, Serial No. 571,652. Published Aug. 8, 1950. Class 37.

533,637. WIRE HOODS USED ON BOTTLES FOR THE PURPOSE OF HOLDING CORKS IN PLACE. I. F. SCHNIER COMPANY, INC., San Francisco, Calif.
Filed Jan. 11, 1949, Serial No. 571,999. Published Aug. 22, 1950. Class 13.

533,638. TOBACCO POUCHES. INTERNATIONAL LATEX CORPORATION, Dover, Del.
Filed Jan. 22, 1949, Serial No. 572,570. Published Aug. 22, 1950. Class 8.

533,639. FLOOR ABSORBENT AND SKID-PROOFING COMPOUND FOR ABSORBING OIL AND WATER FROM FLOORS AND PROTECTING THE SURFACE THEREOF FROM ACQUIRING A SLIPPERY CONDITION. WYANDOTTE CHEMICALS CORPORATION, Wyandotte, Mich.
Filed Feb. 3, 1949, Serial No. 573,283. Published Aug. 15, 1950. Class 6.

533,640. CHECKS, LETTERHEADS, CHECK BOOKS, BOOK-LINING PAPERS, BOOKBINDINGS, AND LOOSE-LEAF RING BINDERS AND RING BOOKS, CARBON-INTERLEAVED FORMS, BOND AND LEDGER PAPERS, AND SAFETY PAPERS. THE J. C. HALL COMPANY, Pawtucket, R. I.
Filed Feb. 12, 1949, Serial No. 573,766. Published Aug. 15, 1950. Class 37.

533,641. POTATO CHIPS. THE MANN COMPANY OF WASHINGTON, Washington, D. C.
Filed Feb. 15, 1949, Serial No. 573,884. Published June 27, 1950. Class 46.

533,642. SMOKERS' ARTICLES—NAMELY, TOBACCO POUCHES, CIGAR CASES AND CIGARETTE CASES NOT OF PRECIOUS METAL, AND CIGAR AND CIGARETTE HOLDERS NOT OF PRECIOUS METAL. FRAN-STEP MFG. CO., New York, N. Y.
Filed Feb. 17, 1949, Serial No. 574,028. Published Aug. 29, 1950. Class 8.

533,643. TOOL BARS FOR CONNECTING AGRICULTURAL IMPLEMENTS TO A TRACTOR OR OTHER DRAFT VEHICLE, COMPRISING A MOUNTING BAR OR FRAME WITH CONTROL MEANS AND INTERCHANGEABLE AGRICULTURAL IMPLEMENTS, ETC. LAPLANT-CHOATE MANUFACTURING CO., INC., Cedar Rapids, Iowa.
Filed Feb. 18, 1949, Serial No. 574,103. Published Aug. 8, 1950. Class 23.

533,644. CHEMICAL PREPARATION TO BE APPLIED TO OR INCORPORATED IN VARIOUS MATERIALS TO IMPART A PEARL LIKE APPEARANCE THEREON OR THEREIN. PAISPEARL PRODUCTS, INC., New York, N. Y., Eastport, Maine, and Hastings-on-Hudson, N. Y.
Filed Feb. 18, 1949, Serial No. 574,109. Published Aug. 15, 1950. Class 6.

533,645. COMBINED CLEANING AND POLISHING COMPOUND FOR AUTOMOBILES, AND FINISHED PAINTED, ENAMELED OR LACQUERED SURFACES. PLAZE, INC., St. Louis, Mo.
Filed Feb. 23, 1949, Serial No. 574,377. Published Aug. 15, 1950. Class 4.

533,646. DIES OF ALL TYPES—NAMELY, ADJUSTABLE, SOLID, ROUND, AND SEGMENTAL DIES, FOR THREADING PIPES, BOLTS, RODS, TUBING, FERROUS AND NON-FERROUS METALS. THE ARMSTRONG MANUFACTURING CO., Bridgeport, Conn.
Filed Feb. 25, 1949, Serial No. 574,482. Published June 27, 1950. Class 23.

533,647. LYE. THE BUCKEYE SODA COMPANY, Painesville, Ohio.
Filed Mar. 1, 1949, Serial No. 574,686. Published Aug. 15, 1950. Class 6.

533,648. PENS, WRITING PENCILS, PENCIL LEADS. INTERNATIONAL BUSINESS MACHINES CORPORATION, New York, N. Y.
Filed Mar. 3, 1949, Serial No. 574,840. Published May 2, 1950. Class 37.

533,649. STROPS AND HONES FOR SHARPENING RAZORS OR RAZOR BLADES. SALVATORE RUSSO, doing business as Peter's Products, Somerville, Mass., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware.
Filed Mar. 3, 1949, Serial No. 574,864. Published Aug. 15, 1950. Class 4.

533,650. FRIED PEANUTS. FAY V. COWAN, Albuquerque, N. M.
Filed Mar. 7, 1949, Serial No. 574,998. Published July 11, 1950. Class 46.

533,651. IMPREGNATED STEEL WOOL PADS. CLUB ALUMINUM PRODUCTS COMPANY, Chicago, Ill.
Filed Mar. 10, 1949, Serial No. 575,194. Published Aug. 15, 1950. Class 4.

533,652. DOG FOOD MADE CHIEFLY OF CEREALS AND MEATS. SOUTHERN STATES COOPERATIVE, INCORPORATED, Richmond, Va.
Filed Mar. 15, 1949, Serial No. 575,500. Published July 4, 1950. Class 46.

533,653. BENZENE, TOLUENE, XYLENE, AND AMMONIUM SULPHATE. LONE STAR STEEL COMPANY, Dallas and Lone Star, Tex.
Filed Mar. 16, 1949, Serial No. 575,536. Published Aug. 15, 1950. Class 6.

533,654. JUVENILE AND BOYS' SPORTSWEAR—NAMELY, PULLOVER SWEATERS AND PULLOVER BLOUSES, T-SHIRTS, BRIEFS, TRUNKS, AND OUTER SHORTS AND UNDER SHORTS. E-Z MILLS, INC., New York, N. Y.
Filed Mar. 18, 1949, Serial No. 575,634. Published Aug. 15, 1950. Class 39.

533,655. TELEPHOTO LENSES FOR USE ON MOVIE CAMERAS. MANSFIELD INDUSTRIES, INC., Chicago, Ill.
Filed Mar. 19, 1949, Serial No. 575,713. Published May 2, 1950. Class 26.

533,656. HERBICIDAL COMPOSITIONS AND STABILIZERS THEREFOR, WHICH PREVENT OR RETARD FORMATION OF PRECIPITATES OR INSOLUBLE MATTERS IN THE HERBICIDAL COMPOSITIONS DURING STORAGE OR USE THEREOF. PITTSBURGH COKE & CHEMICAL COMPANY, Pittsburgh, Pa.
Filed Mar. 21, 1949, Serial No. 575,785. Published Aug. 15, 1950. Class 6.

533,657. FILE HANDLES AND TOOL HANDLES. SAFETY TOOL CORPORATION, Watertown, N. Y.
Filed Mar. 23, 1949, Serial No. 575,931. Published June 27, 1950. Class 23.

533,658. PHOTOGRAPHIC CAMERAS. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y.
Filed Apr. 1, 1949, Serial No. 576,484. Published Aug. 8, 1950. Class 26.

533,659. BUTTER, CHEESE, FRESH EGGS, AND CANNED MILK. L. DAITCH & CO., INC., New York, N. Y.
Filed Apr. 2, 1949, Serial No. 576,524. Published June 27, 1950. Class 46.

533,660. GRAIN CLEANING AND SEPARATING MACHINERY—NAMELY, CYLINDER AND SIEVE MACHINES FOR CLEANING, SEPARATING, ASPIRATING, AND SCALPING GRAIN, AND FOR GRADING CORN. SUPERIOR SEPARATOR COMPANY, Hopkins, Minn.
Filed Apr. 2, 1949, Serial No. 576,608. Published Aug. 1, 1950. Class 23.

533,661. HOSIERY. BRYAN FULL FASHIONED MILLS, Chattanooga, Tenn.
Filed Apr. 8, 1949, Serial No. 576,791. Published Aug. 15, 1950. Class 39.

533,662. INSECTICIDES, RODENTICIDES, FUMIGANTS, ACARICIDES, HERBICIDES, AND ANTHROPODICIDES. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed Apr. 13, 1949, Serial No. 577,027. Published Aug. 15, 1950. Class 6.

533,663. PAINTERS' STRIPING TOOLS. WENDELL MANUFACTURING COMPANY, Chicago, Ill.
Filed Apr. 16, 1949, Serial No. 577,296. Published Aug. 1, 1950. Class 23.

533,664. LIQUID COOLING TOWERS AND PARTS THEREOF. THE MARLEY COMPANY, INC., Kansas City, Kans.
Filed Apr. 18, 1949, Serial No. 577,332. Published June 20, 1950. Class 31.

533,665. LIQUID COOLING TOWERS AND PARTS THEREOF, ESPECIALLY SPRAY NOZZLES FOR LIQUID COOLING TOWERS. THE MARLEY COMPANY, INC., Kansas City, Kans.
Filed Apr. 18, 1949, Serial No. 577,334. Published June 20, 1950. Class 31.

533,666. FRUIT PRESERVES, CONTAINING SELECTED MIXED FRUITS, SUGAR, CORN SYRUP, PECTIN, AND ACID. GLOBE PRODUCTS CO., INC., Brooklyn, N. Y.
Filed Apr. 19, 1949, Serial No. 577,382. Published June 27, 1950. Class 46.

533,667. WATCHES, AND WATCHES AND ATTACHED BRACELETS SOLD AS A UNIT. MARCEL BOUCHER ET CIE, New York, N. Y.
Filed Apr. 20, 1949, Serial No. 577,421. Published Aug. 22, 1950. Class 27.

533,668. DOG, CAT, AND POULTRY BISCUIT FEEDS, THE PRINCIPAL INGREDIENTS OF WHICH ARE WHEAT FLOUR, MEAT MEAL, FISH MEAL, FATS, AND OILS. W. G. CLARKE & SONS (1929) LIMITED, London, England.
Filed Apr. 29, 1949, Serial No. 577,944. Published June 27, 1950. Class 46.

533,669. RIBOFLAVIN CONCENTRATE IN THE FORM OF DRIED GRAIN AND SKIMMED MILK FERMENTATION SOLUBLES FOR USE IN MANUFACTURING POULTRY AND LIVESTOCK FEEDS AND THE LIKE. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed Apr. 30, 1949, Serial No. 578,116. Published July 11, 1950. Class 46.

533,670. EAU DE COLOGNE. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J.
Filed May 3, 1949, Serial No. 578,148. Published July 25, 1950. Class 51.

533,671. CHEESE FOOD. SOUTH KAUKAUNA DAIRY COMPANY, Kaukauna, Wis.
Filed May 5, 1949, Serial No. 578,294. Published June 13, 1950. Class 46.

533,672. LUBRICATING OILS AND LUBRICATING GREASES. A. W. HARRIS OIL COMPANY, East Providence, R. I.
Filed May 13, 1949, Serial No. 578,792. Published Aug. 8, 1950. Class 15.

533,673. HOSIERY AND GLOVES. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed May 14, 1949, Serial No. 578,901. Published Aug. 15, 1950. Class 39.

533,674. LADIES' HOSIERY. PETER P. MCEVOY, doing business under the name and style of Glassboro Full Fashioned Hosiery Mill, Glassboro, N. J.
Filed May 17, 1949, Serial No. 578,988. Published Aug. 15, 1950. Class 39.

533,675. AGRICULTURAL FUNGICIDE. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo.
Filed May 23, 1949, Serial No. 579,335. Published Aug. 29, 1950. Class 6.

533,676. POLISHING WAX FOR USE IN POLISHING FLOORS, FURNITURE, WOODWORK, LINOLEUM, AUTOMOBILES, AIRPLANES, BOATS, LEATHER GOODS AND HOUSEHOLD APPLIANCES. PER-EM WAX CO., Ipswich, S. Dak.
Filed May 23, 1949, Serial No. 579,352. Published Aug. 15, 1950. Class 4.

533,677. LOCAL ANAESTHETIC PARTICULARLY ADAPTED FOR ALLAYING THE DISCOMFORT OF TEETHING AND GUM IRRITATION. CLARENCE E. ELGIN, doing business as Pediatric Products Co., Anderson, S. C.
Filed May 20, 1949, Serial No. 579,378. Published Aug. 22, 1950. Class 18.

533,678. INFANTS' DIAPERS. CLASSTEX, INC., Orwigsburg, Pa.
Filed May 24, 1949, Serial No. 579,396. Published Aug. 15, 1950. Class 39.

533,679. SLEEPING GARMENT FOR INFANTS AND INVALIDS. EMMA MEIER, Miami, Fla.
Filed May 25, 1949, Serial No. 579,507. Published Aug. 15, 1950. Class 39.

533,680. STENCIL HAND STAMPS, AND STENCIL HAND STAMPING OUTFITS, ETC. THE MULTI-STAMP COMPANY, INC., Norfolk, Va.
Filed May 27, 1949, Serial No. 579,612. Published Aug. 8, 1950. Class 23.

533,681. SPRINGS FOR WATCHES, CLOCKS. SAND-STEEL SPRING CO., INC., New York, N. Y.
Filed May 28, 1949, Serial No. 579,714. Published Aug. 22, 1950. Class 27.

533,682. TYPE CASTING MACHINE PARTS—NAMELY, MOLDS AND SPACEBANDS. MERGENTHALER LINOTYPE COMPANY, Brooklyn, N. Y.
Filed June 2, 1949, Serial No. 579,879. Published Aug. 1, 1950. Class 23.

533,683. WOMEN'S AND MISSES' NIGHTGOWNS, PAJAMAS, SLIPS, PETTICOATS, PANTIES, AND STEP-INS. SAMUEL SOLOMON, INC., Boston, Mass.
Filed June 2, 1949, Serial No. 579,896. Published Aug. 15, 1950. Class 39.

533,684. PERFUMES. LUCIEN LELONG, INC., Chicago, Ill.
Filed June 4, 1949, Serial No. 579,986. Published July 25, 1950. Class 51.

533,685. FROZEN ICE CREAM BARS. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed June 8, 1949, Serial No. 580,127. Published July 11, 1950. Class 46.

533,686. FOOD CONCENTRATE FOR GROWING CALVES, ETC. DOROTHY A. LONG, doing business as Dawnwood Farms, Amenia, N. Y.
Filed June 9, 1949, Serial No. 580,198. Published July 11, 1950. Class 46.

533,687. REFLECTOR DEVICE FOR REFLECTING AND INTENSIFYING THE SUN'S RAYS UPON A PORTION OF THE BODY AND FOR ACCELERATING A SUN TAN. BERT JAY FRIEDMAN, Santa Monica, Calif.
Filed June 10, 1949, Serial No. 580,235. Published Aug. 8, 1950. Class 44.

533,688. TABLES OF THE CLASS ROOM TYPE. AMERICAN DESK MANUFACTURING COMPANY, Temple, Tex.
Filed June 11, 1949, Serial No. 580,275. Published Aug. 1, 1950. Class 32.

533,689. TOILET TISSUE. NATIONAL PAPER CORPORATION OF PENNSYLVANIA, Ransom, Pa.
Filed June 15, 1949, Serial No. 580,497. Published Aug. 15, 1950. Class 37.

533,690. CONTINUOUS MOTION PICTURE PROJECTING AND EXHIBITING MACHINE. TRAVELTIPS, INC., Beverly Hills, Calif.
Filed June 15, 1949, Serial No. 580,533. Published June 13, 1950. Class 26.

533,691. FURNITURE NAILS AND FURNITURE GLIDES. ATLAS TACK CORPORATION, Fairhaven, Mass.
Filed June 17, 1949, Serial No. 580,640. Published Aug. 15, 1950. Class 13.

533,692. WEIGHING SCALES AND PARTS THEREOF. THE EXACT WEIGHT SCALE COMPANY, Columbus, Ohio.
Filed June 17, 1949, Serial No. 580,654. Published June 27, 1950. Class 26.

533,693. STAPLING MACHINES USED FOR FASTENING PAPERS, ETC. MARKWELL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed June 17, 1949, Serial No. 580,668. Published Aug. 1, 1950. Class 23.

533,694. COMBINED TEMPERATURE REGULATORS AND AUTOMATIC GAS CUT-OFFS INCLUDING A GAS COCK, A THERMOSTAT, AND AN AUTOMATIC PILOT BURNER CONTROL. ROBERTSHAW-FULTON CONTROLS COMPANY, Greensburg, Pa.
Filed June 18, 1949, Serial No. 580,748. Published June 13, 1950. Class 26.

533,695. CANNED FISH. CENTRAL PACKING COMPANY, Monterey, Calif.
Filed June 20, 1949, Serial No. 580,768. Published July 11, 1950. Class 46.

533,696. CLOTHES WASHING MACHINES, IRONERS, AND MANGLES. GAMBLE-SKOGMO, INC., Minneapolis, Minn.
Filed June 22, 1949, Serial No. 580,881. Published July 25, 1950. Class 24.

533,697. UPHOLSTERED LIVING ROOM CHAIRS. SILVER CRAFT FURNITURE COMPANY, High Point, N. C.
Filed June 24, 1949, Serial No. 581,033. Published Aug. 1, 1950. Class 32.

533,698. INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION, ETC. WISCONSIN MOTOR CORPORATION, Milwaukee, Wis.
Filed June 24, 1949, Serial No. 581,049. Published Aug. 8, 1950. Class 23.

533,699. LUBRICATING AND INSULATING OILS AND GREASES. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed May 27, 1949, Serial No. 581,054. Published Aug. 8, 1950. Class 15.

533,700. INSTRUMENTS FOR MEASURING RADIOACTIVITY OF RADIOACTIVE SUBSTANCES. RADIOACTIVE PRODUCTS, INC., Detroit, Mich.
Filed June 27, 1949, Serial No. 581,145. Published June 20, 1950. Class 26.

533,701. CHOCOLATE COATING FOR ICE CREAM. AMBROSIA CHOCOLATE COMPANY, Milwaukee, Wis.
Filed June 29, 1949, Serial No. 581,231. Published June 27, 1950. Class 46.

533,702. PORTABLE KITCHEN CABINET STRUCTURES. MOOREX INDUSTRIES, INC., Richmond, Va.
Filed June 29, 1949, Serial No. 581,278. Published Aug. 15, 1950. Class 32.

533,703. WAXED WRAPPING PAPER. POLLOCK PAPER CORPORATION, Dallas, Tex.
Filed June 30, 1949, Serial No. 581,355. Published Aug. 8, 1950. Class 37.

533,704. TOILET TISSUE, FACIAL TISSUE, AND PAPER TOWELS. K AND K PRODUCTS COMPANY, Washington, D. C.
Filed July 1, 1949, Serial No. 581,421. Published Aug. 22, 1950. Class 37.

533,705. ADHESIVE CEMENT FORMED FROM NATURAL AND SYNTHETIC RUBBER AND RESINS, RAW RUBBER LATEX, CHLORINATED RUBBER AND DEPOLYMERIZED RUBBER. RUBBER AND ASBESTOS CORP., Bloomfield, N. J.
Filed July 6, 1949, Serial No. 581,566. Published Aug. 8, 1950. Class 5

533,706. FACIAL TISSUES. THOMSON PAPER MILLS, INC., Thomson, N. Y.
Filed July 7, 1949, Serial No. 581,627. Published Aug. 15, 1950. Class 37.

533,707. SPECTACLE FRAMES MADE OF PLASTIC MATERIAL. VICTORY OPTICAL MANUFACTURING COMPANY, Newark, N. J.
Filed July 9, 1949, Serial No. 581,746. Published June 27, 1950. Class 26.

533,708. WRAPPING OR PACKAGING MATERIALS MADE OF CELLOPHANE, PAPER OR PARCHMENT. YORKVILLE PAPER CO., INC., New York, N. Y.
Filed July 9, 1949, Serial No. 581,750. Published Aug. 8, 1950. Class 37.

533,709. SOFA BEDS. RESTONIC CORPORATION, Chicago, Ill.
Filed July 13, 1949, Serial No. 581,892. Published Aug. 15, 1950. Class 32.

533,710. LEATHER AND FABRIC WRIST WATCH STRAPS. MANCO WATCH STRAP CO., INC., New York, N. Y.
Filed July 19, 1949, Serial No. 582,178. Published Aug. 29, 1950. Class 28.

533,711. PHOTOGRAPHIC ENLARGING APPARATUS, PHOTOGRAPHIC CAMERAS, LIGHT INTENSITY MEASURING APPARATUS AND TIME SWITCHES FOR PHOTOGRAPHIC ENLARGERS. SIMMON BROTHERS, INC., Long Island City, N. Y.
Filed July 19, 1949, Serial No. 582,192. Published June 27, 1950. Class 26.

533,712. ELECTRICAL AND MECHANICAL TACHOMETERS. THE ELECTRIC TACHOMETER CORPORATION, Philadelphia, Pa.
Filed July 20, 1949, Serial No. 582,219. Published June 20, 1950. Class 26.

533,713. HUMIDORS FOR THE CONSERVING OF CIGARS AND CIGARETTES, ETC. FLEMING-HALL TOBACCO CO., INC., New York, N. Y.
Filed July 20, 1949, Serial No. 582,220. Published Aug. 15, 1950. Class 8.

533,714. LUBRICANT IN SOLIDIFIED FORM. AMERICAN GREASE STICK COMPANY, Muskegon Heights and Muskegon, Mich.
Filed July 21, 1949, Serial No. 582,263. Published Aug. 15, 1950. Class 15.

533,715. FILTER PAPER. W. & R. BALSTON, LIMITED, Maidstone, Kent, England.
Filed June 8, 1949, Serial No. 582,388. Published July 18, 1950. Class 31.

533,716. SCHOOL TABLETS, WRITING TABLETS, POCKET NOTEBOOKS, ETC. SOUTHWEST TABLET MFG. CO., Dallas, Tex.
Filed June 13, 1949, Serial No. 582,392. Published Aug. 15, 1950. Class 37.

533,717. ASPIRIN. INTERMEDICO CORPORATION, New York, N. Y.
Filed July 23, 1949, Serial No. 582,435. Published Aug. 22, 1950. Class 18.

533,718. VISUAL EDUCATIONAL PROJECTORS. THE VISUALIZER CORPORATION, Beverly Hills, Calif.
Filed July 25, 1949, Serial No. 582,510. Published June 27, 1950. Class 26.

533,719. PHOTOGRAPHIC CAMERAS. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y.
Filed July 26, 1949, Serial No. 582,525. Published June 27, 1950. Class 26.

533,720. INTERNAL MEDICINAL PREPARATION ADAPTED FOR USE IN THE REDUCTION OF BLOOD CHOLESTEROL. FITZGERALD PRODUCTS, INC., Hartford, Conn.
Filed July 28, 1949, Serial No. 582,609. Published Aug. 22, 1950. Class 18.

533,721. WATERLESS HAND CLEANSER. SUGAR BEET PRODUCTS COMPANY, INC., Saginaw, W. S., Mich.
Filed July 28, 1949, Serial No. 582,659. Published Aug. 22, 1950. Class 52.

533,722. FROZEN SCALLOPS. L. VERNON DRAPE, Fall River, Mass.
Filed July 29, 1949, Serial No. 582,680. Published June 27, 1950. Class 46.

533,723. EYEGLASS AND SPECTACLE FRAMES AND TEMPLE BARS THEREOF. THE KONO MANUFACTURING COMPANY, Woodside, N. Y.
Filed July 30, 1949, Serial No. 582,731. Published June 27, 1950. Class 26.

533,724 STERLING SILVER AND SILVER PLATEL FLATWARE AND HOLLOW WARE. THE FISHER SILVERSMITHS, INC., Jersey City, N. J., and New York, N. Y.
Filed Aug. 1, 1949, Serial No. 582,775. Published Aug. 22, 1950. Class 28.

533,725 STERLING SILVER AND SILVER PLATED FLATWARE AND HOLLOW WARE. THE FISHER SILVERSMITHS, INC., Jersey City, N. J., and New York, N. Y.
Filed Aug. 1, 1949, Serial No. 582,779. Published Aug. 22, 1950. Class 28.

533,726. RESIN ADHESIVES INCLUDING RESORCINOL-ALDEHYDE RESIN ADHESIVES, MODIFIED RESORCINOL-ALDEHYDE RESIN ADHESIVES, AND PHENOL-RESORCINOL-ALDEHYDE RESIN ADHESIVES. KOPPERS COMPANY, INC., Pittsburgh, Pa.
Filed Aug. 1, 1949, Serial No. 582,792. Published Aug. 8, 1950. Class 5.

533,727. NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, ETC. CORO, INC., New York, N. Y.
Filed Aug. 4, 1949, Serial No. 582,950. Published Aug. 22, 1950. Class 28.

533,728. PROJECTORS, PROJECTOR SCREENS, PROJECTOR CASES, PROJECTION LAMPS, LENSES, AND SLIDE FILES. G-M LABORATORIES, INC., Chicago, Ill.
Filed Aug. 6, 1949, Serial No. 583,082. Published June 27, 1950. Class 26.

533,729. FROZEN ICE CREAM CONFECTIONS. SNELGROVE ICE CREAM COMPANY, Salt Lake City, Utah.
Filed Aug. 8, 1949, Serial No. 583,175. Published July 11, 1950. Class 46.

533,730. WINDOW SHADES. THE CHAS. W. BRENEMAN COMPANY, Cincinnati, Ohio.
Filed Aug. 10, 1949, Serial No. 583,240. Published Aug. 1, 1950. Class 32.

533,731. INSECTICIDE AND HOUSEHOLD DEODORANT. MINNIE T. CALL, doing business under the name and style of Radiant Wash Solution Co., Olean, N. Y.
Filed Aug. 10, 1949, Serial No. 583,241. Published Aug. 29, 1950. Class 6.

533,732. MERCHANDISE DISPLAY CASE. E. J. BRACH & SONS, Chicago, Ill.
Filed Aug. 11, 1949, Serial No. 583,325. Published Aug. 1, 1950. Class 32.

533,733. MOTION-PICTURE FILM AND PHOTOGRAPHIC FILM. MUSAFILMS, LTD., Dallas, Tex.
Filed Aug. 16, 1949, Serial No. 583,544. Published July 18, 1950. Class 26.

533,734. WATCHES, WATCH CASES, AND WATCH MOVEMENTS. WILLIAM B. OGUSH, INC., New York, N. Y.
Filed Aug. 17, 1949, Serial No. 583,612. Published Aug. 22, 1950. Class 27.

533,735. BRACELETS (NOT INCLUDING WATCHES), PENDANTS, BROOCHES, LOCKETS, EAR RINGS, JEWELRY CLIPS, ORNAMENTAL CLIPS, BREAST PINS, AND ORNAMENTAL PINS. SPIEDEL CORPORATION, Providence, R. I.
Filed Aug. 19, 1949, Serial No. 583,712. Published Aug. 22, 1950. Class 28.

533,736. ANTISEPTIC LIQUID DETERGENT FOR USE ON FLOORS, WALLS, RUGS, DRAPERIES, UPHOLSTERY, MOHAIR, PLASTIC, LEATHER, IMITATION LEATHER, AND CARPETS. PIATT & SMILLIE CHEMICALS, INC., St. Louis, Mo.
Filed Aug. 22, 1949, Serial No. 583,815. Published Aug. 8, 1950. Class 52.

533,737. LIQUID FLOOR WAX. THE DU BOIS COMPANY, Cincinnati, Ohio.
Filed Aug. 23, 1949, Serial No. 583,865. Published Aug. 8, 1950. Class 4.

533,738. COMPOSITION FOR STANDARDIZING THE ACIDITY OF FOODS, CONTAINING SUGAR, MAGNESIUM, HYDROXIDE, AND SODIUM CITRATE. MINERALIZED PRODUCTS CO., INC., Hillsboro, Ill.
Filed Aug. 23, 1949, Serial No. 583,879. Published July 11, 1950. Class 46.

533,739. PHARMACEUTICAL PREPARATION CONTAINING OXIDE OF IRON FOR INTRAVENOUS ADMINISTRATION. BENGER'S LIMITED, Ipswich and Cheshire, England.
Filed Aug. 24, 1949, Serial No. 583,910. Published Aug. 22, 1950. Class 18.

533,740. PAPER FOR POSTERS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed Aug. 24, 1949, Serial No. 583,911. Published Aug. 22, 1950. Class 37.

533,741. SYNTHETIC FLOOR, WALL AND WOODWORK CLEANER. THE SELIG COMPANY, INC., Atlanta, Ga.
Filed Aug. 24, 1949, Serial No. 583,954. Published Aug. 8, 1950. Class 52.

533,742. VAGINAL JELLY WITH ANTISEPTIC PROPERTIES, AND PROTEIN HYDROLYSATES WITH VITAMINS TO BE USED AS MEDICINAL DIETARY SUPPLEMENTS. WINLEY PHARMACAL CORPORATION, Memphis, Tenn.
Filed Aug. 25, 1949, Serial No. 584,033. Published Aug. 22, 1950. Class 18.

533,743. LIQUID COMPOUNDS EMPLOYED FOR LUBRICATING CUTTING AND GRINDING TOOLS AND COOLING THE SAME. RELIANCE CONTRACTING COMPANY, Pittsburgh, Pa.
Filed Aug. 27, 1949, Serial No. 584,154. Published July 25, 1950. Class 15.

533,744. SALVE FOR CARBUNCLES, BOILS, AND GENERAL SKIN ERUPTIONS. JACOB P. BONACIO, Cold Spring, N. Y.
Filed Aug. 30, 1949, Serial No. 584,216. Published Aug. 22, 1950. Class 18.

533,745. SHOE SOLING CEMENT. LAMAC PROCESS COMPANY, Erie, Pa.
Filed Sept. 1, 1949, Serial No. 584,335. Published Aug. 8, 1950. Class 5.

533,746. MEDICINAL PREPARATION USEFUL IN PROTEIN THERAPY. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Sept. 1, 1949, Serial No. 584,353. Published Aug. 22, 1950. Class 18.

533,747. ANTIALLERGENIC EXPECTORANT PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Sept. 1, 1949, Serial No. 584,357. Published Aug. 22, 1950. Class 18.

533,748. MEDICINAL PREPARATION AFFECTING NEURO-MUSCULAR TRANSMISSIONS. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Sept. 1, 1949, Serial No. 584,358. Published Aug. 22, 1950. Class 18.

533,749. EMULSIFIABLE COMPOUNDED PETROLEUM OIL USED FOR PLASTICIZING STARCH COMPOUNDS, ETC. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed Sept. 1, 1949, Serial No. 584,360. Published Aug. 29, 1950. Class 6.

533,750. FRESH APPLES. HILLIARD H. JOSEPH, doing business as Joseph Northwest, Yakima, Wash.
Filed Sept. 3, 1949, Serial No. 584,458. Published July 11, 1950. Class 46.

533,751. RAISINS. ENOCH PACKING COMPANY, also doing business as Enoch Packing Co., Inc., Del Rey, Calif.
Filed Sept. 6, 1949, Serial No. 584,485. Published July 11, 1950. Class 46.

533,752. CLOCKS. THE LUX CLOCK MANUFACTURING COMPANY, INC., Waterbury, Conn.
Filed Sept. 7, 1949, Serial No. 584,539. Published Aug. 22, 1950. Class 27.

533,753. TRANSMISSION OIL FOR USE IN FLUID DRIVE POWER TRANSMISSION SYSTEMS OF MOTOR VEHICLES. THE PENNZOIL COMPANY, Oil City, Pa.
Filed Sept. 7, 1949, Serial No. 584,545. Published July 25, 1950. Class 15.

533,754. SUN GLASSES. VISION PRODUCTS CO., INC., Newark, N. J.
Filed Sept. 7, 1949, Serial No. 584,560. Published July 18, 1950. Class 26.

533,755. STICKS OR HANDLES FOR SUCKERS. JOE LOWE CORPORATION, New York, N. Y.
Filed Sept. 10, 1949, Serial No. 584,682. Published Aug. 22, 1950. Class 13.

533,756. GUMMED TAPE. THE GUMMED PRODUCTS COMPANY, Troy, Ohio.
Filed Sept. 13, 1949, Serial No. 584,765. Published Aug. 8, 1950. Class 5.

533,757. DRY-CLEANING MACHINES. J. E. MARTIN EQUIPMENT CORPORATION, Buffalo, N. Y.
Filed Sept. 14, 1949, Serial No. 584,822. Published Aug. 1, 1950. Class 24.

533,758. NASAL INHALERS CHARGED WITH TRIETHYLENE GLYCOL FOR PREVENTION AND ALLEVIATION OF COMMON COLDS. TEC CORPORATION OF DALLAS TEXAS, Dallas, Tex.
Filed Sept. 14, 1949, Serial No. 584,844. Published Aug. 22, 1950. Class 18.

533,759. CUTTERS AND CUTTER HEADS FOR WOODWORKING MACHINES. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa.
Filed Sept. 15, 1949, Serial No. 584,860. Published July 4, 1950. Class 23.

533,760. ELECTRICAL HEARING AIDS AND BATTERIES FOR USE IN HEARING AIDS. DICTOGRAPH PRODUCTS COMPANY, INC., New York, N. Y.
Filed Sept. 21, 1949, Serial No. 585,107. Published Aug. 8, 1950. Class 44.

533,761. FOLDABLE DISPLAY STANDS USED TO EXHIBIT PRODUCTS. FORMED PRODUCTS CO., New York and Elmhurst, N. Y.
Filed Sept. 21, 1949, Serial No. 585,116. Published Aug. 22, 1950. Class 32.

533,762. LUBRICATING OIL. SUN OIL COMPANY, Philadelphia, Pa.
Filed Sept. 23, 1949, Serial No. 585,254. Published July 25, 1950. Class 15.

533,763. LUBRICATING OIL. SUN OIL COMPANY, Philadelphia, Pa.
Filed Sept. 23, 1949, Serial No. 585,255. Published July 25, 1950. Class 15.

533,764. LUBRICATING OIL. SUN OIL COMPANY, Philadelphia, Pa.
Filed Sept. 23, 1949, Serial No. 585,256. Published July 25, 1950. Class 15.

533,765. PLUMBING FIXTURES, INCLUDING VITREOUS CHINA FIXTURES, ETC. W. A. CASE AND SON MANUFACTURING COMPANY, Buffalo, N. Y.
Filed Sept. 28, 1949, Serial No. 585,425. Published Aug. 15, 1950. Class 13.

533,766. FLUIDS FOR PARENTERAL USE—NAMELY, WATER FOR INJECTION, ETC. BAXTER LABORATORIES, INC., Morton Grove, Ill.
Filed Sept. 29, 1949, Serial No. 585,508. Published Aug. 22, 1950. Class 18.

533,767. WRITING TABLETS. THE MOREY MERCANTILE COMPANY, Denver, Colo.
Filed Sept. 30, 1949, Serial No. 585,599. Published Aug. 15, 1950. Class 37.

533,768. DRAWING PAPER, DRAWING CLOTH, TRACING PAPER, TRACING CLOTH, CROSS SECTION PAPER, BRISTOL BOARD, ILLUSTRATION BOARD, AND SKETCH BOOKS. SPAULDING-MOSS COMPANY, Boston, Mass.
Filed Oct. 1, 1949, Serial No. 585,687. Published Aug. 29, 1950. Class 37.

533,769. CHEMOTHERAPEUTIC PREPARATION USEFUL AS A BACTERIOSTATIC, ETC. MCNEIL LABORATORIES, INCORPORATED, Philadelphia, Pa.
Filed Oct. 4, 1949, Serial No. 585,758. Published Aug. 22, 1950. Class 18.

533,770. BANK CHECKS, DRAFTS, AND PERSONALIZED CHECKS FOR DEPOSITORS. DENNISON & SONS, Long Island City, N. Y.
Filed Oct. 6, 1949, Serial No. 585,834. Published Aug. 22, 1950. Class 37.

533,771. GASOLINE AND LUBRICATING OIL. TANKAR OIL COMPANY, Montgomery, Ala.
Filed Oct. 6, 1949, Serial No. 585,871. Published Aug. 15, 1950. Class 15.

533,772. INSUFFLATOR INTENDED FOR USE IN THE TOPICAL APPLICATION OF DRY COMMINUTED MEDICAMENTS TO THE NOSE, THROAT, OR MOUTH. ABBOTT LABORATORIES, North Chicago, Ill.
Filed Oct. 8, 1949, Serial No. 585,984. Published Aug. 8, 1950. Class 44.

533,773. CLOCKS AND WATCHES AND PARTS THEREOF. L. HARRIS COMPANY, INC., New York, N. Y.
Filed Oct. 8, 1949, Serial No. 585,997. Published Aug. 22, 1950. Class 27.

533,774. LUBRICATING OILS AND GREASES. SWAN-FINCH OIL CORPORATION, New York, N. Y.
Filed Oct. 8, 1949, Serial No. 586,023. Published Aug. 22, 1950. Class 15.

533,775. CORRUGATED PAPER, WRAPPING PAPER, AND PAPER FOR MAKING PAPER CONTAINERS. CHIPPEWA PAPER PRODUCTS CO., INC., Chicago, Ill.
Filed Oct. 10, 1949, Serial No. 586,046. Published Aug. 22, 1950. Class 37.

533,776. SOLVENT TYPE CEMENT FOR USE IN TOE AND SIDE PATCHING OF SHOES, ETC. ROBERT W. DERBY, doing business as R-H Products Company, South Acton, Mass.
Filed Oct. 11, 1949, Serial No. 586,081. Published July 25, 1950. Class 5.

533,777. PHARMACEUTICAL PREPARATION INTENDED FOR THE ALLEVIATION OF THE COMMON COLD AND OTHER VIRUS DISEASES. SCHERING CORPORATION, Bloomfield, N. J.
Filed Oct. 11, 1949, Serial No. 586,112. Published Aug. 22, 1950. Class 18.

533,778. PHARMACEUTICAL PREPARATION OF ORGANIC NATURE INTENDED FOR USE AS A DIAGNOSTIC MEDIUM. SCHERING CORPORATION, Bloomfield, N. J.
Filed Oct. 11, 1949, Serial No. 586,114. Published Aug. 22, 1950. Class 18.

533,779. DRUG USED FOR THE TREATMENT OF INFECTIONS AND INFESTATIONS. SCHERING CORPORATION, Bloomfield, N. J.
Filed Oct. 11, 1949, Serial No. 586,115. Published Aug. 22, 1950. Class 18.

533,780. PHARMACEUTICAL PREPARATION INTENDED FOR TREATMENT OF NASAL INFECTIONS. SCHERING CORPORATION, Bloomfield, N. J.
Filed Oct. 11, 1949, Serial No. 586,116. Published Aug. 22, 1950. Class 18.

533,781. WATERMARKED SULPHITE WRITING PAPERS—NAMELY, SULPHITE BOND, MIMEO BOND, LEDGER, DUPLICATING PAPERS, AND SECOND SHEETS. BADGER PAPER MILLS, INC., Peshtigo, Wis.
Filed Oct. 12, 1949, Serial No. 586,128. Published Aug. 22, 1950. Class 37.

533,782. LUBRICANT IN STICK FORM FOR LUBRICATING SLIDE FASTENERS. D. A. STUART OIL CO., LIMITED, Chicago, Ill.
Filed Sept. 14, 1949, Serial No. 586,222. Published Aug. 15, 1950. Class 15.

533,783. PHARMACEUTICAL PREPARATIONS CONTAINING VITAMINS. DU-RAN PRODUCTS CO., Durant, Okla.
Filed Oct. 17, 1949, Serial No. 586,403. Published Aug. 29, 1950. Class 18.

533,784. REMOVABLE LIP-PROTECTING SLEEVES OR MOUTHPIECES FOR ARTICLES OF SMOKING TOBACCO SUCH AS CIGARETTES AND CIGARS. WILLIAM H. BOTLEY, doing business as B & E Products Co., Columbus, Ohio.
Filed Oct. 18, 1949, Serial No. 586,464. Published Aug. 22, 1950. Class 8.

533,785. SYNTHETIC TEXTILE RESINS. U. S. OIL COMPANY, East Providence, R. I.
Filed Oct. 25, 1949, Serial No. 586,824. Published Aug. 29, 1950. Class 6.

533,786. ANTIBIOTIC PREPARATION. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed Oct. 26, 1949, Serial No. 586,884. Published Aug. 29, 1950. Class 18.

533,787. BABBITT HEAD HAMMERS AND HANDLES FOR BABBITT HEAD HAMMERS. MADS MARTHINSEN, Michigan City, Ind.
Filed Nov. 2, 1949, Serial No. 587,200. Published Aug. 1, 1950. Class 23.

533,788. CLOCKS. ALLIED PRECISION INDUSTRIES, INC., Chicago, Ill.
Filed Oct. 19, 1949, Serial No. 587,604. Published Aug. 22, 1950. Class 27.

533,789. STAPLING MACHINES USED FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND LIGHT GAUGE METAL TOGETHER, AND ALSO FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND LIGHT GAUGE METAL ON TO WOOD. MARKWELL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed Nov. 25, 1949, Serial No. 588,307. Published Aug. 1, 1950. Class 23.

533,790. CUTTER BITS, CRADLES, BIT HOLDERS, AND SET SCREWS THEREFOR FOR MINING. THE CINCINNATI MINE MACHINERY CO., Cincinnati, Ohio.
Filed Dec. 23, 1949, Serial No. 589,836. Published Aug. 8, 1950. Class 23.

533,791. MACHINE TOOLS. KEARNEY & TRECKER CORPORATION, West Allis, Wis.
Filed Feb. 11, 1950, Serial No. 592,323. Published July 18, 1950. Class 23.

533,792. MACHINE ROLLS OF RUBBER COMPOSITION. STOWE-WOODWARD, INC., Newton Upper Falls, Mass.
Filed Mar. 29, 1950, Serial No. 594,865. Published Aug. 1, 1950. Class 23.

533,793. PORTABLE CHAIN SAWS AND CENTRIFUGAL PUMPS. MCCULLOCH MOTORS CORPORATION, Los Angeles, Calif.
Filed Apr. 3, 1950, Serial No. 595,144. Published Aug. 1, 1950. Class 23.

533,794. FILES. HELLER BROTHERS COMPANY, Newark, N. J.
Filed Apr. 8, 1950, Serial No. 595,461. Published Aug. 1, 1950. Class 23.

533,795. METAL FORMING AND STAMPING PRESSES AND PARTS THEREFOR. CLEARING MACHINE CORPORATION, Chicago, Ill.
Filed Apr. 15, 1950, Serial No. 595,765. Published Aug. 1, 1950. Class 23.

533,796. FILES, RASPS, HAMMERS, CHISELS, TONGS, NIPPERS, PINCERS, PUNCHES, WRENCHES, SCRAPERS, BLACKSMITHS' AND FARRIERS' TOOLS. HELLER BROTHERS COMPANY, Newark, N. J.
Filed May 18, 1950, Serial No. 597,682. Published Aug. 1, 1950. Class 23.

533,797. WHEAT FLOUR. TEX-O-KAN FLOUR MILLS CO., Dallas, Tex.
Filed July 14, 1950, Serial No. 599,921. Published Sept. 5, 1950. Class 46.

Service Mark

533,798. SERVICES RENDERED AT APPLICANT'S AUTOMOTIVE SERVICE STATIONS GENERALLY, ETC. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed Feb. 9, 1948, Serial No. 549,186. Published July 25, 1950. Class 103.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

533,799. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LEVELOR CORPORATION (A NEW CORPORATION), White Plains and New York, N. Y., assignee, by mesne assignment, of Levelor Corporation. Original filed, act of 1905, May 9, 1946; amended to application under act of 1946, Supplemental Register, Mar. 4, 1949, Serial No. 501,746.

LEVELOR

FOR ADJUSTABLE REST MADE OF PLASTIC OR SOME OTHER SUITABLE MATERIAL TO BE USED AS A SUPPORT UNDER THE BOTTOMS OF FURNITURE, MACHINERY AND THE LIKE.

Claims use since Nov. 18, 1945.

533,800. (CLASS 37. PAPER AND STATIONERY.) MILPRINT, INC., Milwaukee, Wis. Original filed, act of 1905, Feb. 27, 1947; amended to application under act of 1946, Supplemental Register, Feb. 12, 1949, Serial No. 518,246.

EVER FRESH

FOR WRAPPERS OF PAPER, WAX PAPER, RUBBER HYDROCHLORIDE, REGENERATED CELLULOSE, PLASTICS AND COMPOSITION MATERIALS FOR COMMODITIES SUCH AS BREAD OR THE LIKE.

Claims use since Jan. 29, 1947.

533,801. (CLASS 37. PAPER AND STATIONERY.) C. O. DICKS CO., Detroit, Mich. Original filed, act of 1905, Mar. 24, 1947; amended to application under act of 1946, Supplemental Register, July 30, 1949, Serial No. 519,467.

STICKIBAK

FOR GUMMED PAPER UTILIZED IN PREPARING STENCILS AND FOR PREPARED STENCILS FORMED OF GUMMED PAPER UTILIZED TO PAINT OR INK INDICIA ON ARTICLES OF MERCHANDISE AND HAVING A PAPER PROTECTIVE LINER SUPERIMPOSED OVER THE GUMMED SURFACE THEREOF AND IN CONTACT THEREWITH.

Claims use since July 1, 1945.

533,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRADDOCK FROSTED FOODS, INC., Braddock, N. J. Original filed, act of 1905, Mar. 28, 1947; amended to application under act of 1946, Supplemental Register, Oct. 9, 1948, Serial No. 519,728.

FROZRITE

FOR CUT CORN, BROCCOLI, PEACHES, BLUEBERRIES, LIMA BEANS, AND RASPBERRIES, ALL FROZEN.

Claims use since July 26, 1946.

533,803. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARGIRO HERMANOS, Buenos Aires, Argentina. Original filed, act of 1905, Mar. 29, 1947; amended to application under act of 1946, Supplemental Register, July 29, 1950, Serial No. 519,819.

ARGIRÓ

Applicant claims ownership of Registration No. 513,615.

FOR SEWING MACHINES, ELECTRIC SHAVERS, ELECTRIC CLOTH CUTTING MACHINES, DIESEL ENGINES, GAS ENGINES, PLANING MACHINES, LATHES, MILLING MACHINES, DRILLING MACHINES, MACHINE KNIVES, PAPER CUTTING KNIVES, SHEARS, KNIVES, RAZORS, RAZOR BLADES, CHISELS, MACHINES FOR SEWING TOGETHER PARTS OF BOOTS AND SHOES, ATTACHMENTS FOR SUCH MACHINES, WOOD-PLANING AND WOOD-TURNING MACHINES, AND POWER OPERATED MACHINES FOR STAMPING, CUTTING AND EMBOSSING LEATHER, METAL AND SIMILAR MATERIALS.

First used in December 1948, and first used in commerce between Argentina and the United States which may lawfully be regulated by Congress in December 1948.

533,804. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) HENRY MAYFIELD, doing business as Modernistic Match Co., Orange, Tex. Original filed, act of 1905, Apr. 21, 1947; amended to application under act of 1946, Supplemental Register, May 5, 1949, Serial No. 521,102.

LITER-MATCH

FOR PYROPHORIC LIGHTERS FOR LIGHTING BURNERS.

Claims use since Mar. 31, 1947.

533,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. F. HEUBLEIN & BRO., INC., Hartford, Conn. Original filed, act of 1905, May 29, 1947; amended to application under act of 1946, Supplemental Register, July 28, 1948, Serial No. 523,265.

A Heublein PRODUCT

Applicant claims ownership of Registration No. 244,253.

FOR FLAVORING SAUCE FOR GRAVIES, SOUPS, JUICES, MEATS, POULTRY, FISH, SANDWICHES, COCKTAIL SAUCES, AND FOODS.

Claims use since Mar. 19, 1947.

533,806. (CLASS 37. PAPER AND STATIONERY.) HAMMERMILL PAPER COMPANY, Erie, Pa. Original filed, act of 1905, June 11, 1947; amended to application under act of 1946, Principal Register, Nov. 18, 1948; amended to Supplemental Register, Feb. 17, 1950, Serial No. 523,966.

Cockletone

FOR WRITING AND PRINTING PAPERS.

Claims use since May 10, 1947.

533,807. (CLASS 37. PAPER AND STATIONERY.) BRIGHTWATER PAPER COMPANY, Dover, Del., and Adams, Mass. Original filed, act of 1946, Principal Register, Aug. 12, 1947; amended to application, Supplemental Register, Aug. 24, 1950, Serial No. 531,085. Under section 2f of the act of 1946.

EATONIAN

Applicant claims ownership of Registrations Nos. 362,661 and 362,662.

FOR WRITING PAPER (BOND, VELLUM, AND LEDGER).

Claims use since February 1931.

533,808. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NATIONAL TOOL & DIE COMPANY, INC., Louisville, Ky. Original filed, act of 1946, Principal Register, Oct. 24, 1947; amended to application Supplemental Register, July 28, 1950, Serial No. 538,950.

FOLD A FRAME

FOR TRESTLES.

Claims use since Oct. 1, 1945.

533,809. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. M. BALL & COMPANY, Oakland, Calif. Original filed, act of 1946, Principal Register, Nov. 14, 1947; amended to application, Supplemental Register, June 23, 1950, Serial No. 541,070.

All-in-One

FOR CANNED MIXED FRUITS.

Claims use since Aug. 29, 1929.

533,810. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ELECTRIC GAME COMPANY, INC., Holyoke Mass. Original filed, act of 1946, Principal Register, Sept. 8, 1947; amended to application, Supplemental Register, Aug. 16, 1949, Serial No. 542,391.

ELECTRIC BASEBALL

Applicant claims ownership of Registration No. 407,555.

FOR BOARD GAMES PLAYED WITH MOVABLE PIECES.

Claims use since June 1, 1934.

533,811. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE REESE CHEMICAL COMPANY, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Feb. 17, 1948; amended to application, Supplemental Register, Nov. 21, 1949, Serial No. 549,965.

SAFTY SAFTY PRO

FOR PROPHYLACTIC RUBBER ARTICLES SOLD FOR PREVENTION OF CONTAGIOUS DISEASES.

Claims use since Oct. 20, 1947.

533,812. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis. Original filed, act of 1946, Principal Register, Mar. 3, 1948; amended to application, Supplemental Register, July 14, 1950, Serial No. 551,107.

DUAL-RAY

FOR ELECTRIC GERMICIDAL LAMPS.

Claims use since Mar. 1, 1947.

533,813. (CLASS 37. PAPER AND STATIONERY.) JOHN DICKINSON SCHNEIDER, doing business as Franklin C. Hollister Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 5, 1948; amended to application, Supplemental Register, Sept. 12, 1949, Serial No. 556,291.

Inscribed

FOR PARTIALLY PRINTED BIRTH CERTIFICATE FORMS.
Claims use since Apr. 13, 1948.

533,814. (CLASS 37. PAPER AND STATIONERY.) AMERICAN TISSUE MILLS, Holyoke, Mass. Original filed, act of 1946, Principal Register, Jan. 9, 1948; amended to application, Supplemental Register, Dec. 9, 1949, Serial No. 556,699.

POLK-A-DOT

Applicant claims ownership of Registration No. 369,081.
FOR WRAPPING, WAXED, AND TISSUE PAPERS.
Claims use since June 1, 1937.

533,815. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN HEATING & APPLIANCE COMPANY, Philadelphia, Pa. Original filed, act of 1946, Principal Register, June 17, 1948; amended to application, Supplemental Register, June 19, 1950, Serial No. 559,489.

METAL-LITE

FOR WINDOWS AND SCREENS.
Claims use since May 1947.

533,816. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOICE FOODS, INC., Minneapolis, Minn. Original filed, act of 1946, Principal Register, July 3, 1948; amended to application, Supplemental Register, Aug. 30, 1950, Serial No. 560,683.

SPUD-TATO

FOR PREPARED DOUGHNUT MIX.
Claims use since Dec. 10, 1947.

533,817. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CURTIS M. KOSTER, doing business as Turntop Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, Aug. 20, 1948; amended to application, Supplemental Register, Feb. 1, 1950, Serial No. 563,886.

TURNTOP

FOR CONTAINER CLOSURES.
Claims use since Nov. 26, 1947.

533,818. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ESKIMO PIE CORPORATION, Bloomfield, N. J. Original filed, act of 1946, Principal Register, Sept. 30, 1948; amended to application, Supplemental Register, Apr. 25, 1950, Serial No. 566,126.

GOLD COAST

FOR COATING FOR ICE CREAM BARS CONSISTING PRINCIPALLY OF CHOCOLATE, VEGETABLE OILS, SUGAR AND MILK PRODUCTS.
Claims use since July 2, 1948.

533,819. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) LAHER SPRING AND TIRE CORPORATION, Oakland, Calif. Original filed, act of 1946, Principal Register, Nov. 12, 1948; amended to application, Supplemental Register, Oct. 31, 1949, Serial No. 568,636.

MOUNTAIN-TESTED

FOR AUTOMOBILE AND TRUCK TIRES AND AUTOMOBILE AND TRUCK BRAKE LINING AND BRAKE BLOCKS.
Claims use since Oct. 22, 1948.

533,820. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) ROBERT B. MARRÉ, doing business as Tru-Bloom Seeds, Avila, Calif. Original filed, act of 1946, Principal Register, Feb. 17, 1949; amended to application, Supplemental Register, Sept. 1, 1950, Serial No. 574,042.

Tru-Bloom

FOR FLOWER SEEDS.
Claims use since Dec. 6, 1948.

533,821. (CLASS 19. VEHICLES.) THE DELMAN CORPORATION, Des Moines, Iowa. Original filed, act of 1946, Principal Register, Feb. 23, 1949; amended to application, Supplemental Register, Feb. 17, 1950, Serial No. 574,350.

SAFE-SITE

FOR VEHICLE WINDSHIELD WASHER OF A TYPE WHICH BECOMES A PART OF THE VEHICLE AND INCLUDES A MANUALLY OPERATED LIQUID PUMP FOR SUPPLYING LIQUID UNDER PRESSURE TO A NOZZLE ASSEMBLY.
Claims use since Oct. 15, 1947.

533,822. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DARE PRODUCTS, INCORPORATED, Battle Creek, Mich. Original filed, act of 1946, Principal Register, Jan. 24, 1949; amended to application, Supplemental Register, Sept. 1, 1950, Serial No. 574,664.

SET-EZE

FOR ELECTRIC FENCE POST ASSEMBLIES, AND PARTS THEREOF.
Claims use since Mar. 31, 1947.

533,823. (CLASS 37. PAPER AND STATIONERY.) BAY WEST PAPER COMPANY, Green Bay, Wis. Original filed, act of 1946, Principal Register, Mar. 18, 1949; amended to application, Supplemental Register, July 28, 1950, Serial No. 575,619.

MOSINEE

MULTI-DUBLTOWLS

Applicant claims ownership of Registrations Nos. 202,763, 269,133, 269,134, 317,016, and 336,218.
FOR PAPER TOWELS.
Claims use since Mar. 4, 1949.

533,824. (CLASS 12. CONSTRUCTION MATERIALS.) KERRIGAN IRON WORKS, INC., Nashville, Tenn. Original filed, act of 1946, Principal Register, Mar. 18, 1949; amended to application, Supplemental Register, July 6, 1950, Serial No. 575,650.

Weldlok

Applicant claims ownership of Registration No. 429,640.
FOR GRATINGS FOR FLOORS, STAIR TREADS, AND WALL PARTITIONS.
Claims use since Feb. 24, 1949.

533,825. (CLASS 37. PAPER AND STATIONERY.) BAY WEST PAPER COMPANY, Green Bay, Wis. Original filed, act of 1946, Principal Register, Mar. 25, 1949; amended to application, Supplemental Register, July 28, 1950, Serial No. 576,031.

MOSINEE

TRIM-TOWLS

Applicant claims ownership of Registrations Nos. 202,763, 269,133, 269,134, 317,016, and 336,218.
FOR PAPER TOWELS.
Claims use since May 15, 1947.

533,826. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ESSEX WIRE CORPORATION, Detroit, Mich. Original filed, act of 1946, Principal Register, Apr. 15, 1949; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 577,176.

IF IT'S PARANITE IT'S RIGHT

Applicant claims ownership of Registrations Nos. 20,916 and 56,559.
FOR INSULATED ELECTRIC WIRES, INSULATED ELECTRIC CABLES AND ELECTRICAL INSULATING MATERIAL INCLUDING RUBBER, COTTON, RAYON, SILK, AND TREATED PAPER WRAPPINGS AND RUBBER TAPE.
Claims use since Jan. 1, 1892.

533,827. (CLASS 37. PAPER AND STATIONERY.) EDWARD C. KINNEY, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 20, 1949; amended to application, Supplemental Register, Aug. 17, 1950, Serial No. 577,435.

BIND-IT

FOR LOOSE-LEAF BINDER.
Claims use since Feb. 10, 1945.

533,828. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPE FEAR COLD STORAGE COMPANY, Fort Fisher and Kure Beach, N. C. Original filed, act of 1946, Principal Register, Apr. 28, 1949; amended to application, Supplemental Register, July 3, 1950, Serial No. 577,875.

FOR FROZEN SEA FOODS—NAMELY, DEVILLED CRABS, SHRIMP, AND SEAFOOD DINNER PREPARATION CONSISTING OF SHRIMP, FISH, CLAMS, POTATOES, ONIONS, TOMATOES, CRAB MEAT, BREAD CRUMBS, GREEN PEPPERS, CORNSTARCH, PARSLEY, WHOLE EGG, SALT, PEPPER AND SEASONING.
Claims use since December 1948.

533,829. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. V. R. BUISMAN'S GEBRANDE SUIKERPOEDERFABRIEK, Zwartsluis, Netherlands. Original filed, act of 1946, Principal Register, May 19, 1949; amended to application, Supplemental Register, June 20, 1950, Serial No. 579,123.

BUISMAN'S

Applicant claims ownership of Dutch Registration No. 73,517, dated Dec. 3, 1938.
FOR FLAVORING PREPARATION IN POWDERED FORM TO BE MIXED WITH GROUND COFFEE.

533,830. (CLASS 6. CHEMICALS AND CHEMICAL COMPOSITIONS.) LEON G. KINGSLEY, New York, N. Y. Original filed, act of 1946, Principal Register, May 25, 1949; amended to application, Supplemental Register, Sept. 8, 1950, Serial No. 579,503.

CROMOTAN

FOR TANNING COMPOUND.
Claims use since Apr. 4, 1949.

533,831. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MANUEL ARCHULETA, Albuquerque, N. Mex. Original filed, act of 1946, Principal Register, June 6, 1949; amended to application, Supplemental Register, June 6, 1950, Serial No. 580,007.

FOR MECHANICALLY GROOVED PHONOGRAPH RECORDS.
Claims use since Aug. 30, 1946.

533,832. (CLASS 12. CONSTRUCTION MATERIALS.) NORMAN FRYE, Davenport, Iowa. Original filed, act of 1946, Principal Register, Aug. 3, 1949; amended to application, Supplemental Register, July 28, 1950, Serial No. 582,905.

MARK ARC

FOR UNBRACED METAL PORTABLE BUILDING FOR HOUSING LIVE STOCK AND/OR MACHINERY.
Claims use since Mar. 3, 1948.

533,833. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DURO WOOD PRODUCTS MANUFACTURING, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Sept. 30, 1949; amended to application, Supplemental Register, July 21, 1950, Serial No. 585,576.

"NEEDLE-FLOAT"

FOR FISHING FLOATS.
Claims use since Feb. 9, 1949.

533,834. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN THOMAS POWELL, Washington, D. C. Filed Oct. 14, 1949, Serial No. 586,308.

INSTANT-LITE

FOR PORTABLE SELF-CONTAINED AUTOMATIC ELECTRIC LIGHTING UNITS.
Claims use since June 16, 1943.

533,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed Nov. 1, 1949, Serial No. 587,126.

The drawing is lined for the colors red and yellow. Applicant claims ownership of Registration No. 88,935.
FOR CANDY.
Claims use since July 12, 1946.

533,836. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MOSKIN STORES, INC., New York, N. Y. Filed Dec. 2, 1949, Serial No. 588,701.

CHELSEA

FOR RADIO RECEIVING SETS.
Claims use since May 10, 1948.

533,837. (CLASS 39. CLOTHING.) WESTERN LEATHER COMPANY, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Feb. 1, 1950; amended to application, Supplemental Register, Aug. 21, 1950, Serial No. 591,821.

HEVISOLE

FOR SHOE LEATHER WELTING IN STRIPS.
Claims use since Aug. 16, 1949.

TRADE-MARK REGISTRATIONS RENEWED

35,203. HERRING BONE. Registered Oct. 2, 1900. International Metal Lath Company, New York, N. Y. Re-renewed Oct. 2, 1950, to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan. EXPANDED SHEET-METAL STRUCTURES, ETC. Class 12.

77,477. ATLAS. Registered Apr. 12, 1910. Wm. McLeish, Appleton, Wis. Re-renewed Apr. 12, 1950, to Appleton-Atlas Car Mover Corp., Milwaukee, Wis., a corporation of Wisconsin. CAR MOVERS AND PUSHERS. Class 23.

79,314. CORONATION. Registered Aug. 23, 1910. W. E. Wroe & Company. Re-renewed Aug. 23, 1950, to Bradner Smith & Company, Chicago, Ill., a corporation of Illinois. WRITING-PAPER. Class 37.

79,648. MAMMA'S. Registered Sept. 27, 1910. F. B. Chamberlain Company, St. Louis, Mo., a corporation of Illinois. Re-renewed Sept. 27, 1950. AN ARTICLE OF FOOD CONSISTING OF GROUND WHEAT, GROUND CORN, ETC. Class 46.

79,694. PLIO. Registered Sept. 27, 1910. The Printz Biederman Company, Cleveland, Ohio, a corporation of Ohio. Re-renewed Sept. 27, 1950. INTERLINING. Class 42.

79,877. PRODUCERS. Registered Oct. 11, 1910. W. E. Wroe & Company. Re-renewed Oct. 11, 1950, to Bradner Smith & Company, Chicago, Ill., a corporation of Illinois. WRITING-PAPER. Class 37.

80,268. CASCADE. Registered Nov. 29, 1910. Cataract Refining and Manufacturing Company, Buffalo, N. Y. Re-renewed Nov. 29, 1950, to Swan-Finch Oil Corporation, New York, N. Y., a corporation of New York. LUBRICATING GREASE AND YARN-GREASE. Class 15.

80,673. REPRESENTATION OF LAMP. Registered Jan. 17, 1911. Oakley Chemical Co. Re-renewed Jan. 17, 1951, to Oakite Products, Inc., New York, N. Y., a corporation of New York. A GRANULATED CHEMICAL CLEANSING COMPOUND. Class 52.

261,524. JAMES RIVER BRAND. Registered Sept. 17, 1929. The Smithfield Company, Incorporated. Renewed Sept. 17, 1949, to The Smithfield Ham and Products Company, Inc., Smithfield, Va., a corporation of Virginia. HAMS. Class 46.

264,347. TALKIES. Registered Nov. 26, 1929. McKesson & Robbins, Incorporated, Bridgeport, Conn. Renewed Nov. 26, 1949, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland. THROAT PASTILS. Class 18.

266,792. CEMENTAN. Registered Feb. 4, 1930. Acton Tanning Company Limited. Renewed Feb. 4, 1950, to Beardmore & Co. Limited, Acton, Ontario, Canada, a corporation organized under the laws of the Dominion of Canada. LEATHER, AND PARTICULARLY SOLE LEATHER. Class 1.

269,237. KIRSHMOOR. Registered Apr. 1, 1930. B. Kirshbaum & Company, Chicago, Ill. Renewed Apr. 1, 1950, to Kirshmoor, Inc., Los Angeles, Calif., a corporation of California. SUITS, COATS, PANTS, VESTS, AND SKIRTS FOR MEN AND WOMEN. Class 39.

269,834. LUGER. Registered Apr. 22, 1930. A. F. Stoeger, Inc. Renewed Apr. 22, 1950, to Stoeger Arms Corporation, New York, N. Y., a corporation of New York. SHOTGUNS, PISTOLS, REVOLVERS, RIFLES AND PARTS THEREOF. Class 9.

270,703. "BITE-X" AND DESIGN. Registered May 13, 1930. Child Welfare Guild, Inc., New Haven, Conn. Renewed May 13, 1950, to Palmer Bevis, New York, N. Y. LIQUID PREPARATION TO PREVENT PEOPLE FROM BITING THEIR FINGER NAILS. Class 51.

273,291. DAGGETT AND RAMSDELL'S. Registered July 29, 1930. Daggett & Ramsdell, New York, N. Y. Renewed July 29, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. COLD CREAM. Class 51.

273,331. STONEFACE. Registered July 29, 1930. Barron, Anderson Company, Boston, Mass., a corporation of Massachusetts. Renewed July 29, 1950. MEN'S TOPCOATS, OVERCOATS, SUITS, VESTS, AND TROUSERS. Class 39.

273,402. (ALL AMERICA BOARD OF TRACK AND FIELD). Registered Aug. 5, 1930. Christy Walsh, New York, N. Y. Renewed Aug. 5, 1950, to Christy Walsh, Hollywood, Calif. HEADING FOR A SERIES OF ARTICLES. Class 38.

273,561. WHOOPEE. Registered Aug. 5, 1930. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Aug. 5, 1950. SPINNERS. Class 22.

273,752. VIVATONE. Registered Aug. 12, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 12, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. CLEANSING PUFFS AND ABSORBENT PUFFS. Class 29.

273,825. SNAPIE. Registered Aug. 12, 1930. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Aug. 12, 1950. ARTIFICIAL BAIT, SUCH AS SPINNERS. Class 22.

273,893. MOHBESTOS. Registered Aug. 19, 1930. Mark O. Hammond, doing business as Mohbestos Brake Lining Company. Renewed Aug. 19, 1950, to Henry C. McClure, Akron, Ohio. BRAKE LININGS. Class 35.

273,925. KITCHEN COUNSEL. Registered Aug. 19, 1930. Buffalo Evening News. Renewed Aug. 19, 1950, to Edward H. Butler, individually and as trustee under the last will and testament of Edward H. Butler, deceased, doing business as Buffalo Evening News, Buffalo, N. Y. NEWSPAPER COLUMN CONTAINING KITCHEN COUNSEL PUBLISHED DAILY. Class 36.

273,973. DAGELLE. Registered Aug. 19, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 19, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. TOILET CREAMS, TOILET LOTIONS, TOILET POWDERS, PERFUMES, COSMETIC MAKE-UP TOILETRIES, ETC. Class 51.

273,974. "D AND R" AND DESIGN. Registered Aug. 19, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 19, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. TOILET CREAMS, TOILET LOTIONS, TOILET POWDERS, PERFUMES, COSMETIC MAKE-UP TOILETRIES, ETC. Class 51.

274,005. "DAGGETT & RAMSDELL D AND R" AND DESIGN. Registered Aug. 19, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 19, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. TOILET CREAMS, TOILET LOTIONS, TOILET POWDERS, PERFUMES, COSMETIC MAKE-UP TOILETRIES, ETC. Class 51.

274,006. "D AND R" AND DESIGN. Registered Aug. 19, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 19, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. SOAP AND SHAVING CREAM. Class 51.

274,007. "DAGGETT & RAMSDELL D AND R" AND DESIGN. Registered Aug. 19, 1930. Daggett & Ramsdell, New York, N. Y. Renewed Aug. 19, 1950, to Daggett & Ramsdell, Inc., Newark, N. J., a corporation of Delaware. SOAP AND SHAVING CREAM. Class 51.

274,050. FRANK H. LEE CO. Registered Aug. 19, 1930. The Frank H. Lee Company, Danbury, Conn., a corporation of Connecticut. Renewed Aug. 19, 1950. MEN'S SOFT WOOL HATS, AND CAPS. Class 39.

274,165. THE ALL AMERICA BOARD OF FOOTBALL. Registered Aug. 19, 1930. Christy Walsh, New York, N. Y. Renewed Aug. 19, 1950, to Christy Walsh, Hollywood, Calif. HEADING FOR A SERIES OF ARTICLES. Class 38.

274,364. "FUL-O-PEP" AND DRAWING. Registered Aug. 26, 1930. The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Renewed Aug. 26, 1950. FEEDS FOR TURKEYS. Class 46.

274,725. "AMERICAN ULTRA-SPEED TUMBLER" AND DRAWING. Registered Sept. 2, 1930. The American Laundry Machinery Company, Norwood, Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 2, 1950. DRYING MACHINES FOR REMOVING MOISTURE OR CLEANING FLUIDS FROM FABRICS, CLOTHING, AND THE LIKE. Class 24.

275,296. MI 31. Registered Sept. 23, 1930. United Drug Company, Boston, Mass. Renewed Sept. 23, 1950, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. SHAVING CREAM. Class 51.

275,594. "ZORIC" AND DESIGN. Registered Sept. 23, 1930. The American Laundry Machinery Company, Norwood, Cincinnati, Ohio, a corporation of Ohio. Renewed Sept. 23, 1950. DRY-CLEANING PLANTS OR SYSTEMS. Class 24.

275,787. MI 31. Registered Sept. 30, 1930. United Drug Company, Boston, Mass. Renewed Sept. 30, 1950, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware DENTAL PASTE. Class 51.

275,810. "MENTHO-REX" ETC. Registered Sept. 30, 1930. United Drug Company, Boston, Mass. Renewed Sept. 30, 1950, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. MEDICINAL PREPARATION CONSISTING OF AN OINTMENT OR SALVE WITH INHALANT PROPERTIES FOR RELIEVING THE DISCOMFORTS OF COMMON COLDS, ETC. Class 18.

275,858. "SILVER SPRING" AND DESIGN. Registered Sept. 30, 1930. William A. Bowles, doing business as Bowles Brothers. Renewed Sept. 30, 1950, to Silver Spring Beverages Incorporated, Brockton, Mass., a corporation of Massachusetts. GINGER ALE. Class 45.

276,387. "FRED KELLY" ETC. AND DESIGN. Registered Oct. 21, 1930. The Frank H. Lee Company, Danbury, Conn., a corporation of Connecticut. Renewed Oct. 21, 1950. MEN'S SOFT AND STIFF FELT HATS, STRAW HATS, WOOL HATS AND CAPS. Class 39.

276,388. FRED KELLY. Registered Oct. 21, 1930. The Frank H. Lee Company, Danbury, Conn., a corporation of Connecticut. Renewed Oct. 21, 1950. MEN'S SOFT AND STIFF FELT HATS, STRAW HATS, WOOL HATS AND CAPS, AND MEN'S SUITS AND OVERCOATS. Class 39.

277,093. EL ROI-TAN. Registered Nov. 4, 1930. American Cigar Company. Renewed Nov. 4, 1950, to The American Tobacco Company, New York, N. Y., a corporation of New Jersey. CIGARS, CIGARETTES, AND SMOKING TOBACCO. Class 17.

277,566. ACEY-DEUCY. Registered Nov. 18, 1930. Milton Bradley Company, Springfield, Mass., a corporation of Massachusetts. Renewed Nov. 18, 1950. GAMES PLAYED WITH A GAME BOARD, DICE, AND COUNTERS. Class 22.

277,668. "BIG CHIEF BRAND" AND DRAWING. Registered Nov. 25, 1930. Seattle Glove Company, Seattle, Wash., a corporation of Washington. Renewed Nov. 25, 1950. CANVAS, COTTON, AND LEATHER-PALM WORK GLOVES. Class 39.

278,159. "GLOBE" AND DESIGN. Registered Dec. 9, 1930. Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. Renewed Dec. 9, 1950. GLUCOSE OR CORN SYRUP. Class 46.

278,225. "LOESARCH" AND DESIGN. Registered Dec. 9, 1930. Frederick Loeser & Co. Inc., Brooklyn, N. Y., a corporation of New York. Renewed Dec. 9, 1950. WOMEN'S LEATHER AND FABRIC SHOES. Class 39.

278,289. VITALITE. Registered Dec. 16, 1930. Albany Billiard Ball Company, Albany, N. Y., a corporation of New York. Renewed Dec. 16, 1950. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. Class 22.

278,392. RESINITE. Registered Dec. 16, 1930. Albany Billiard Ball Company, Albany, N. Y., a corporation of New York. Renewed Dec. 16, 1950. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. Class 22.

278,393. CRYSTALATE. Registered Dec. 16, 1930. Albany Billiard Ball Company, Albany, N. Y., a corporation of New York. Renewed Dec. 16, 1950. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. Class 22.

278,568. "TUF TEX" AND DESIGN. Registered Dec. 23, 1930. International Shoe Company, St. Louis, Mo., a corporation of Delaware. Renewed Dec. 23, 1950. COTTON PIECE GOODS. Class 42.

278,766. PLAZA. Registered Dec. 30, 1930. Bloomingdale Bros., Inc., New York, N. Y. Renewed Dec. 30, 1950, to Federated Department Stores, Inc., Cincinnati, Ohio, a corporation of Delaware. CARPET SWEEPERS. Class 29.

278,807. "PIPER HEIDSIECK" ETC. AND DESIGN. Registered Dec. 30, 1930. The American Tobacco Company, New York, N. Y., a corporation of New Jersey. Renewed Dec. 30, 1950. CHEWING TOBACCO. Class 17.

278,870. "PHOENIX DUL SHEER" AND DESIGN. Registered Dec. 30, 1930. Phoenix Hosiery Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Dec. 30, 1950. HOSIERY FOR MEN, WOMEN, AND CHILDREN AND UNDERWEAR OF WOVEN, KNITTED AND/OR NETTED MATERIAL OF WOOL, ETC. Class 39.

279,016. NEPTO. Registered Jan. 6, 1931. The E. L. Patch Company, Stoneham, Mass., a corporation of Massachusetts. Renewed Jan. 6, 1951. COLD, BEAUTY, CLEANSING, REFRESHING, FINISHING, MASSAGE, AND BLEACHING CREAMS. Class 51.

279,035. MATEX. Registered Jan. 6, 1931. The Massillon Rubber Company, Massillon, Ohio, a corporation of Ohio. Renewed Jan. 6, 1951. RUBBER GLOVES FOR THE USE OF PHYSICIANS, SURGEONS, DENTISTS, LABORATORY TECHNICIANS, HOSPITAL EMPLOYEES, AND THE LIKE. Class 44.

279,063. NORFORMS. Registered Jan. 6, 1931. The Norwich Pharmacal Company, Norwich, N. Y., a corporation of New York. Renewed Jan. 6, 1951. VAGINAL SUPPOSITORIES. Class 18.

279,130. PICK OF THE PACK. Registered Jan. 6, 1931. Chester H. Roth Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 6, 1951. HOSIERY. Class 39.

279,141. LASSIE JANE. Registered Jan. 6, 1931. Walter Blair Roddenbery. Renewed Jan. 6, 1951, to W. B. Roddenbery Co., Inc., Cairo, Ga., a corporation of Georgia. MOLASSES. Class 46.

279,442. LOVEWELL. Registered Jan. 13, 1931. Chester H. Roth Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 13, 1951. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR OF COTTON, ETC. Class 39.

279,629. KEEKADDY. Registered Jan. 20, 1931. Claude A. Lewis, Houston, Tex. Renewed Jan. 20, 1951, to Amity Leather Products Co., West Bend, Wis., a corporation of Wisconsin. POCKET BASE-METAL KEY HOLDERS. Class 13.

279,724. MATTINA. Registered Jan. 20, 1931. Manteca Canning Company, Manteca, Calif., a corporation of California. Renewed Jan. 20, 1951. CANNED TOMATOES, CANNED TOMATO PASTE, CANNED FRUIT, CANNED VEGETABLES. Class 46.

279,769. CHOKLA. Registered Jan. 20, 1931. E. B. Moshier, doing business as The Instant Products Manufacturing Company. Renewed Jan. 20, 1951, to The Instant Products Manufacturing Company, Omaha, Nebr., a firm. MILK-CHOCOLATE POWDER AND MALTED-MILK CHOCOLATE POWDER. Class 46.

280,016. ACE. Registered Feb. 10, 1931. Comfort Manufacturing Co. Renewed Feb. 10, 1951, to Ace Manufacturing Company, Chicago, Ill., a corporation of Illinois. SHAVING CREAMS. Class 51.

280,290. FLEISCHMANN'S. Registered Feb. 10, 1931. Standard Brands Incorporated, Dover, Del., Cincinnati, Ohio, and New York, N. Y. Renewed Feb. 10, 1951, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. BAKING POWDER. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

339,282. SOL. Registered Oct. 6, 1936. Galban Lobo Company Importing and Exporting Association, S. A., Habana, Cuba. PREPARED CEREALS, LARD, TALLOW, ETC. Class 46. Restricted under the provisions of Section 18 of the Trade-Mark Act of 1946 for that area of the United States excluding the States of Mississippi, Alabama, Louisiana, and Georgia, and in foreign trade excluding trade between the United States and South and Central America, by order of the Assistant Commissioner dated October 17, 1950, following decision in Concurrent Use Proceeding No. 18, *Vories Baking Company* v. *Galban Lobo Company Importing and Exporting Association, S. A.*

518,460. KOOLEEZ. Registered Dec. 6, 1949. International Latex Corporation, Dover, Del. Crib and like sheets of plastic film. Class 42. Corrected as follows: On the page containing the printed statement and declaration, strike out the mark and insert instead the following—

KOOLEEZ

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

273,512. "MCL" AND DESIGN. Registered Aug. 5, 1930. Renewed Aug. 5, 1950. McLaren-Consolidated Cone Corporation. ICE-CREAM CONES. Class 46. New certificate under section 7(c) issued Nov. 21, 1950, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

277,741. YOUNG WINGS. Registered Nov. 25, 1930. Renewed Nov. 25, 1950. The Junior Literary Guild, Inc. MONTHLY PERIODICAL. Class 38. New certificate under section 7(c) issued Nov. 21, 1950, to The Literary Guild of America, Inc., Garden City, N. Y., a corporation of New York.

377,426. "MELO POLO" AND DESIGN. Registered May 7, 1940. National Fabrics Corporation. TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, ETC. Class 42. New certificate under section 7(c) issued Nov. 21, 1950, to National Mallinson Fabrics Corporation, New York, N. Y., a corporation of Delaware.

389,089. ADECO. Registered July 22, 1941. Aircraft & Diesel Equipment Corporation. DIESEL ENGINE EQUIPMENT—NAMELY, FUEL PUMPS AND INJECTORS. Class 23. New certificate under section 7(c) issued Nov. 21, 1950, to Adeco Products, Inc., Chicago, Ill., a corporation of Illinois.

391,984. WHIRLAWAY. Registered Dec. 2, 1941. National Fabrics Corporation. TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, ETC. Class 42. New certificate under section 7(c) issued Nov. 21, 1950, to National Mallinson Fabrics Corporation, New York, N. Y., a corporation of Delaware.

509,601. ADECO. Registered May 10, 1949. Aircraft & Diesel Equipment Corporation. DIESEL ENGINE EQUIPMENT—NAMELY, FUEL PUMPS, ETC. Class 23. New certificate under section 7(c) issued Nov. 21, 1950, to Adeco Products, Inc., Chicago, Ill., a corporation of Illinois.

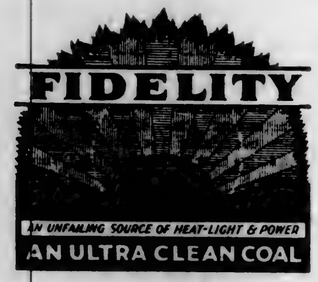
TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 272,581. Registered July 8, 1930. THE UNITED ELECTRIC COAL COMPANIES, Chicago, Ill., a corporation of Delaware. Republished by registrant.



All the words except "Fidelity" are disclaimed apart from the mark as shown. The drawing is lined for red.
FOR COAL.
Claims use since July 28, 1929.

Reg. No. 277,787. Registered Nov. 25, 1930. AMERICAN HIDE AND LEATHER COMPANY, Boston, Mass., a corporation of New Jersey. Republished by registrant.

ROSEBAY WILLOW

FOR CALF LEATHER.
Claims use since May 1, 1930.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 77,776. Registered May 3, 1910. WILLIAM HEISER AND SONS COMPANY, Buffalo, N. Y., a corporation of New York. Republished by registrant.

WM. HEISER'S

FOR MANHOLE-FITTINGS FOR BREWERS' TANKS AND VATS AND OTHER WOODEN AND METALLIC TANKS, BOILERS, AND METALLIC VESSELS, SAID MANHOLE-FITTINGS COMPRISING METALLIC RINGS ADAPTED TO BE SECURED TO THE INNER AND OUTER SURFACES OF SAID VESSELS, ONE OF SAID RINGS BEING PROVIDED WITH A HINGED DOOR, SAID DOOR HAVING CLAMPING MEANS ADAPTED TO HERMETICALLY CLOSE SAID DOOR.
Claims use since the beginning of the year 1886.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 79,623. Registered Sept. 20, 1910. ABDULLA & COMPANY LIMITED, London, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.

FOR CIGARETTES AND SMOKING TOBACCO.
Claims use since February 1902.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 398,198. Registered Oct. 13, 1942. WISCONSIN ALUMNI RESEARCH FOUNDATION, Madison, Wis., a corporation of Wisconsin. Republished by registrant.

DICUMAROL

FOR ANTICOAGULANTS.
Claims use since May 15, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 444,066. Registered July 4, 1950. TAYLOR BARNES, doing business as Shreveport Engineering Company, Shreveport, La., assignor to The Bar-Brook Manufacturing Company, Inc. Republished by The Bar-Brook Manufacturing Company, Inc., Shreveport, La., a corporation of Louisiana.

BREEZEBUILDER

The word "Breeze" is disclaimed apart from the mark as shown.
FOR ELECTRICAL VENTILATING FANS.
Claims use since Aug. 12, 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 276,140. Registered Oct. 7, 1930. LANDIS MACHINE COMPANY, Waynesboro, Pa., a corporation of Pennsylvania. Republished by registrant.
lished by registrant.

LANDEX

FOR SCREW-THREAD-CUTTING DIE HEADS.
Claims use since about January 1928.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 79,089. Registered Aug. 2, 1910. THE WESTERN CLOCK MFG. CO., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

MONITOR

FOR CLOCKS.
Claims use since Mar. 23, 1910.

Reg. No. 79,874. Registered Oct. 11, 1910. THE WESTERN CLOCK MFG. CO., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

GOOD MORNING

FOR CLOCKS AND WATCHES.
Claims use since June 15, 1910.

Reg. No. 79,875. Registered Oct. 11, 1910. THE WESTERN CLOCK MFG. CO., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

Baby

FOR CLOCKS AND WATCHES.
Claims use since June 2, 1910.

Reg. No. 276,597. Registered Oct. 21, 1930. WESTERN CLOCK COMPANY, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

LA SALLITA

FOR CLOCKS AND WATCHES.
Claims use since Jan. 1, 1895.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 80,366. Registered Dec. 13, 1910. LEGGETT & PLATT SPRING BED & MFG. CO., Carthage, Mo. Republished by Leggett & Platt, Inc., Ennis, Tex., Carthage, Mo., and Louisville and Winchester, Ky., a corporation of Missouri.

FOR SPRING-BEDS.
Claims use since June 30, 1903.

Reg. No. 420,822. Registered May 7, 1946. T. H. JENKINS COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

"Selectie"

FOR DISPLAY RACKS FOR NECKTIES.
Claims use since about Nov. 1, 1938.

CLASS 33

GLASSWARE

Reg. No. 272,530. Registered July 8, 1930. DUPLATE CORPORATION, Pittsburgh, Pa. Republished by Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania.

DUO-LITE

FOR LAMINATED SHEET GLASS.
Claims use since Nov. 18, 1929.

CLASS 39

CLOTHING

Reg. No. 424,851. Registered Oct. 29, 1946. PENN HOSIERY MILLS, INC., Reading, Pa., a corporation of Pennsylvania. Republished by registrant.

Ralo HOSIERY

The word "Hosiery" is disclaimed apart from the mark as shown.
FOR HOSIERY.
Claims use since approximately the year 1919.

Reg. No. 429,878. Registered May 20, 1947. PENN HOSIERY MILLS, INC., Reading, Pa., a corporation of Pennsylvania. Republished by registrant.

SĀ PEN

FOR HOSIERY.
Claims use since June 10, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 184,925. Registered June 3, 1924. GARFIELD WORSTED MILLS, Garfield, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

TWILLBLOOM

FOR WORSTED DRESS GOODS.
Claims use since May 1, 1923.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 78,648. Registered June 28, 1910. WILLIAM S. SCULL COMPANY, Camden, N. J., a corporation of New Jersey. Republished by registrant.

SCULL'S

FOR COFFEES, TEAS, AND SPICES.
Claims use since about November 1863.

Reg. No. 79,220. Registered Aug. 16, 1910. THE MARMITE FOOD EXTRACT CO., LIMITED, London, England, a corporation organised under the laws of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.

FOR CONCENTRATED PREPARATION BEING AN EXTRACT OF YEAST FOR HUMAN FOOD.
Claims use since Nov. 15, 1902.

Reg. No. 262,922. Registered Oct. 29, 1929. BALLARD & BALLARD CO., Louisville, Ky., a corporation of Kentucky. Republished by registrant.

FOR WHEAT FLOUR AND SELF-RISING FLOUR.
Claims use since Jan. 1, 1893.

Reg. No. 263,144. Registered Oct. 29, 1929. BALLARD & BALLARD CO., Louisville, Ky., a corporation of Kentucky. Republished by registrant.

NEW SOUTH

FOR WHEAT FLOUR AND SELF-RISING FLOUR.
Claims use since about the month of January 1929.

Reg. No. 267,781. Registered Mar. 4, 1930. BALLARD & BALLARD CO., Louisville, Ky., a corporation of Kentucky. Republished by registrant.

FOR WHEAT FLOUR AND SELF-RISING FLOUR.
Claims use since about Sept. 1, 1929.

Reg. No. 272,435. Registered July 8, 1930. KOHRS PACKING COMPANY, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

CROWN

FOR LARD, SAUSAGE, AND COTTAGE BUTTS.
Claims use since about Apr. 1, 1880.

Reg. No. 272,450. Registered July 8, 1930. THE NEW ERA MILLING COMPANY, Arkansas City, Kans., a corporation of Kansas. Republished by registrant.

FOR WHEAT FLOUR.
Claims use since Jan. 27, 1915.

Reg. No. 272,758. Registered July 15, 1930. KOHRS PACKING COMPANY, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

The conventional lining for colors is disclaimed apart from the mark as shown.
FOR SAUSAGE AND COTTAGE BUTTS.
Claims use since about Apr. 1, 1880.

Reg. No. 273,196. Registered July 22, 1930. GOLDEN BEAR COOKIE CO. INC., Long Island City, N. Y. Republished by Golden Bear Cookie Co., Inc. (1942), Clifton, N. J., a corporation of New York.

The word "Cookies" is disclaimed apart from the mark as shown.
FOR COOKIES.
Claims use since Feb. 4, 1930.

Reg. No. 353,805. Registered Jan. 18, 1938. UNIVERSAL COCOA PRODUCTS CORPORATION, Chicago, Ill. Republished by Universal Foods Corporation, Chicago, Ill., a corporation of Delaware.

The word "Soup's" is disclaimed apart from the mark as shown. The drawing is lined for blue.
FOR FOOD PRODUCTS—NAMELY, A PREPARATION FOR MAKING SOUPS.
Claims use since Dec. 29, 1936.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 273,585. Registered Aug. 5, 1930. SEARS, ROEBUCK AND CO., Chicago, Ill. Republished by The National Ideal Company, Toledo, Ohio, a corporation of Ohio.

PREMIER

FOR CHARCOAL INCUBATORS.
Claims use since Jan. 31, 1930.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 348,354. Registered July 27, 1937. PHOEBE CAMPBELL, Montreal, Quebec, Canada. Republished by Satinol, Inc., Chicago, Ill., a corporation of Illinois.

SATINOL

FOR PERFUME PREPARATION FOR USE IN THE BATH.
Claims use since June 21, 1935.

REISSUES

NOVEMBER 21, 1950

23,294

VEHICLE WASHER

William Howard Hopper, Edison, and Virgil R. Drake, Los Angeles, Calif., assignors, by direct and mesne assignments, to Washmobile Corporation, a corporation of California

Original No. 2,465,562, dated March 29, 1949, Serial No. 713,416, December 2, 1946. Application for reissue March 21, 1950, Serial No. 150,828

4 Claims. (Cl. 134—94)

3. A unitary apparatus for mechanically washing a stationary automotive vehicle by different controlled sequential operations, said apparatus comprising a pair of substantially identical pipe conduits each of inverted U-shape, each conduit including a pair of uprights somewhat taller than the vehicle to be washed and a connecting cross-length between the upper ends thereof somewhat longer than the width of the vehicle to be washed so that each of said conduits is adapted to encompass the vehicle to be washed, each of said conduits being closed at the lower ends of the uprights thereof, said U-shaped conduits extending in substantially parallel relation and being spaced from each other by a distance but a small fraction of the length of the vehicle to be washed, means affixed to said two inverted U-shaped conduits intervening between and connecting the same to form a unitary inverted U-frame, horizontal carrier means directly and rigidly affixed to said inverted U-shaped conduits and bridging the corresponding extremities of the two inverted U-shaped conduits and constituting the sole support thereof, separate guide means for said U-frame extending at right angles to the general plane thereof and serving to confine said supported frame for movement lengthwise of the vehicle to be washed and thereby guarding against impact of the frame against such vehicle, each of said inverted U-shaped pipe conduits having nozzle openings distributed along the length thereof and directed inward to cause any emitted liquid to impinge upon the vehicle being washed in a narrow zone adjacent a plane transverse to the path of movement of the conduit, an inlet connected to at least one of said pipe conduits for supply of water therethrough, a second inlet connected to at least one of said pipe conduits for supply of detergent solution therethrough, and a valve control means for selectively feeding water or detergent solution.

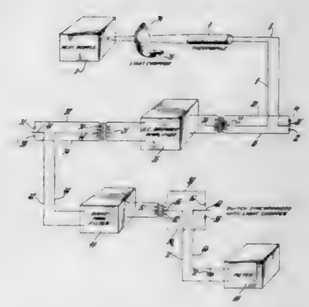
23,295

MODULATED HEAT RAY DETECTOR

Max D. Liston, Darien, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original No. 2,442,298, dated May 25, 1948, Serial No. 537,961, filed May 29, 1944. Application for reissue filed December 10, 1949, Serial No. 132,320

5 Claims. (Cl. 250—83.3)



6. A heat ray detecting system, which comprises a source of infrared rays, a nonselective thermal detector developing voltages in response to radiation from the source falling thereon and greater voltages in response to stray radiation falling thereon and stray thermo-potentials introduced into the system, means between the source and the detector for periodically interrupting the radiation from the source at a low frequency, a circuit interrupter connected to the thermal detector to periodically interrupt the current therefrom, an amplifier connected to the circuit interrupter and having applied thereto the interrupted current from the thermal detector, a second circuit interrupter synchronized with the first, connected to the amplifier output to convert the amplified resultant voltage back to the form of the voltage in the detector output, and a rectifier connected to the second circuit interrupter and operating in synchronism with the periodically interrupting means for the detecting means to convert the resultant current to direct current and to pass as A. C. spurious signals from the circuit of the detector.

PLANT PATENTS

GRANTED NOVEMBER 21, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

988

CHRYSANTHEMUM PLANT

Vincent R. DePetris, Grosse Pointe Farms, Mich., assignor to DePetris, Inc., a corporation of Michigan

Application May 11, 1949, Serial No. 92,625

1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant characterized as to novelty by the unusual and distinctive raspberry-apricot coloring of its blooms, its habit of growth, sturdy upright stems, and glossy dark green leaves, substantially as shown and described.

989

GARDENIA PLANT

Roderick I. McLellan, Hillsborough, and Norman B. Morrow, San Bruno, Calif., assignors to E. W. McLellan Company, Colma, Calif., a corporation of California

Application July 2, 1949, Serial No. 102,886

1 Claim. (Cl. 47—60)

A variety of gardenia plant substantially as shown and described characterized particularly by its being a tetraploid having as distinguishing characteristics relative to the grandiflora variety; broader, heavier and flatter leaves; shorter and thicker internodes and heavier nodes; a greater proportion of exceptionally large, perfect flowers; more petals and an extra row of petals in the average flowers and which petals are broader and thicker; heavier corollas and calyxes with the latter being coarser and thicker; a more compact and stiffer plant as a whole having thicker stems and roots that are heavier and coarser.

990

PHILODENDRON PLANT

Henry Frank Bohne, Middletown, Ohio

Application September 14, 1949, Serial No. 115,583

1 Claim. (Cl. 47—59)

A new and distinct variety of philodendron plant, substantially as described and illustrated, characterized by dense foilage of cordate-cirrose leaves with short petioles and with variegated opaque and translucent patternless green markings.

991

ROSE PLANT

Hendrikus Antonie Maria Verschuren, Haps, Netherlands, assignor, by mesne assignments, to C. W. Stuart & Co., Newark, N. Y., a corporation of New York

Application January 12, 1950, Serial No. 138,237

1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid polyantha rose plant of the floribunda type, characterized as to novelty by the contrasting colors of the flowers; by the change of the color of the blooms from the bud stage through the developments to the full blown stage, and by their intense and distinct fragrance, substantially as shown and described.

PATENTS

GRANTED NOVEMBER 21, 1950

2,530,366

ELECTROPHORETIC DEPOSITION OF ETHYLENE POLYMERS

Allen G. Gray, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 8, 1947, Serial No. 720,923

3 Claims. (Cl. 204—181)

1. In a process for electrophoretically depositing ethylene polymers the step comprising electrolyzing an aqueous dispersion of an ethylene polymer containing a salt of the class consisting of water-soluble ammonium and basic amine salts of a polymeric N-monoalkyl substituted amic acid in which the recurring two non-oxo carbonyl groups are attached directly to adjacent carbon atoms of the polymeric chain, using an electrical conductor as the anode to receive the deposit of ethylene polymer.

2,530,367

DISPROPORTIONATION OF ALKOXYSILANES

Charles R. Hance, Durham, N. C., and George H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio

No Drawing. Application December 6, 1947, Serial No. 790,230

5 Claims. (Cl. 260—448.8)

1. Process of disproportionating an alkoxysilane containing at least one hydrogen atom attached to silicon, which comprises treating said alkoxysilane, at a temperature not substantially above about 60° C., with a compound in solid form having the type formula MOR, where M is a metal of group IA of the periodic table, and R is a member of the group consisting of hydrogen and alkyl radicals, and recovering silane from the reaction product.

2,530,368

METHOD OF PURIFYING MOLTEN IRON

James Fernando Jordan, Huntington Park, Calif., assignor to James Jordan Laboratory, Huntington Park, Calif., a partnership

No Drawing. Application April 1, 1950, Serial No. 153,500

7 Claims. (Cl. 75—130)

1. In the process for producing nodular graphite cast iron by treating molten cast iron containing sulphur with a controlled amount of magnesium and an inoculating agent, the method of preparing said molten cast iron for conversion into said nodular graphite cast iron, which comprises: desulphurizing said molten cast iron by reacting said molten cast iron with sufficient magnesium to produce a molten cast iron containing at least 0.01% retained magnesium; and reacting the resulting desulphurized molten cast iron with a reagent that is oxidizing towards said retained magnesium until the retained magnesium content of said desulphurized molten cast iron has been substantially all oxidized by said reagent.

2,530,369

OXIDATION OF AROMATIC COMPOUNDS

Joseph H. Simons, State College, Pa., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 29, 1948, Serial No. 5,205

20 Claims. (Cl. 260—621)

1. A process of oxidizing aromatic hydrocarbons selected from the group consisting of benzene, naphthalene, anthracene, phenanthrene, and homologues thereof to produce phenolic compounds which comprises oxidizing an aromatic hydrocarbon selected from the group consisting of benzene, naphthalene, anthracene, phenanthrene, and homologues thereof under superatmospheric pressure at a temperature between 0 and 230° C. for a time limited to produce said phenolic compounds, in a reaction mixture containing sufficient liquid hydrogen fluoride to minimize production of oxides of carbon and inflammable gases.

2,530,370

COATING MATERIAL EMULSIONS

Laszlo Auer, South Orange, N. J.

No Drawing. Application April 7, 1947, Serial No. 739,945

18 Claims. (Cl. 106—252)

1. An oil-in-water emulsion surface coating material, the vehicle solids of which comprise soap-free bodied polyhydric alcohol esters of poly-unsaturated acids of fatty oils, said ester being in a solid state in the water emulsion, the vehicle solids of the emulsion being sensitive to the action of the air, when exposed to it in a thin layer of a wet film thickness of 0.0015'' to 0.003'', forming a coherent solid film immediately upon demulsification of the emulsion, said solid film formation being reached within a period ranging from a couple of seconds to one hour, the solid polyhydric alcohol esters forming the dispersed phase of the emulsion having an oxygen content which does not exceed the oxygen content of the unemulsified polyhydric alcohol esters by more than 2.8%, the vehicle solids dispersed phase content ranging from 10% to 70%, based on the total weight of water and vehicle solids constituents of the emulsion surface coating material.

2,530,371

REPAIRING SLIDE FASTENERS

Albert H. Benson, Hopewell, N. J.

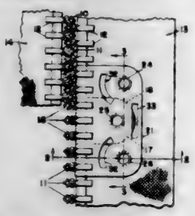
Application August 31, 1945, Serial No. 613,919

10 Claims. (Cl. 29—148)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the art of repairing slide fasteners of the type comprising opposed rows of interengageable fastening elements mounted on webs of pliable material for joining and separating said webs by the operation of a slider along said rows of said fastening elements, the improvement which comprises removing adjacent damaged fastening elements from one of the rows by cutting away a portion of the web on which

they are mounted, replacing said cut away portion of web with another portion of web of like shape and having a like number and kind of undamaged fastening elements similarly mounted thereon, providing a sheet of reinforcing material having a centrally disposed row of transversely disposed slots spaced to leave therebetween reinforcing material of a width to fit between adjacent fastening elements of said one of said rows, passing said slots over fastening elements on said replaced web portion and over adjacent fastening elements of the same row, and securing said sheet of reinforcing material to said another portion of web and to adjacent portions of the web from which said cut away portion was removed.



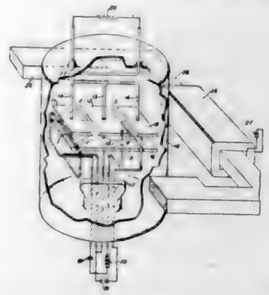
9. A blank for use in repairing slide fasteners of the type comprising opposed rows of interengageable fastening elements mounted on webs for joining and separating the latter by operation of a slider along said rows of fastening elements, said blank comprising a sheet of reinforcing material having a longitudinal row of transversely extending slots spaced to leave therebetween reinforcing material of a width to fit between adjacent fastening elements of a row substantially at the marginal edge of the web on which said fastening elements are mounted, said slots being of a width individually to receive fastening elements of the row, said blank being adapted to be folded substantially midway of the length of said slots about the marginal edge of the webs on which fastening elements are mounted so that the folded portions of said blank lie substantially flat against the intervening webs, a plurality of upset annular rings on one of the folded portions of said blank arranged to overlie each of the webs on which the fastening elements are mounted, the other folded portion of the blank having apertures registering with said upset annular rings so that the latter may be punched into said registering apertures and peened over the edges thereof.

2,530,372
ALUMINUM PENICILLIN
Sidney W. Bohls, Austin, Tex., assignor to Hynson, Westcott & Dunning, Incorporated, a corporation of Maryland
No Drawing. Application February 11, 1946, Serial No. 646,963
1 Claim. (Cl. 260—302)

As a new product the tri-penicillin G salt of aluminum.

2,530,373
ULTRA HIGH FREQUENCY ELECTRONIC DEVICE
Arnold E. Bowen, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 4, 1943, Serial No. 485,579
9 Claims. (Cl. 250—27.5)

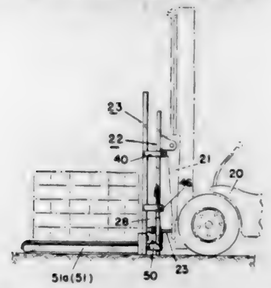
1. A magnetron comprising two systems of coplanar plate electrodes located in parallel planes respectively, the first of said plate systems comprising three anode segments defining between pairs of adjacent edges an input gap and an output gap respectively, said gaps extending parallel to each other, the second of said plate systems comprising a ground plate and a collector plate insulated from each other, a linearly extended cathode substantially in the plane of said ground plate and oriented parallel to said input and output gaps, the distance between said input and output gaps being substantially π times the separation between said parallel planes, and the distance between the cathode and the input gap as projected upon said parallel planes being one-half the distance between said input and output gaps, and conductor means connected to said anode segments across said input and output gaps, respectively, and forming a resonant system.



2,530,374
LOCKING TYPE HAIR-WAVING ROD
Roy F. Burch, Sr., Denver, Colo.
Application August 8, 1947, Serial No. 767,481
6 Claims. (Cl. 132—41)

1. A device of the character described, comprising an elongated body having a shouldered surface at one of its ends, clamping means pivotally attached to said body adjacent the shouldered end for rotation through substantially ninety degrees and normally extending longitudinally of said body in closely overhanging relation thereto so as to thereby hold a coil of hair wound about the body against slippage, and a U-shaped member having legs slidably mounted in socket-forming surfaces of the clamping means for pivotal movement therewith and extending into spaced superposed relation with the body so that the legs of said member will hold other convolutions wound about said coil and said clamping means, and said U-shaped member having a portion engaging the shouldered surface of the body to arrest the pivotal movement of said clamping means when the U-shaped member is in said superposed position.

2,530,375
LIFTING FORK WITH GRIPPING MEANS
Victor H. Cartwright, Dunlap, Ill.
Application June 11, 1948, Serial No. 32,550
7 Claims. (Cl. 214—65.2)

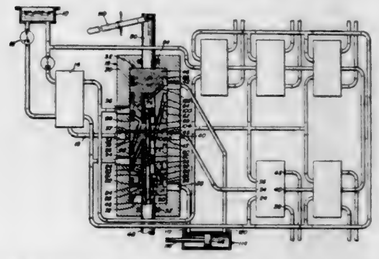


1. A lifting fork comprising two parallel members, a first vertical pivot pin mounted on one of said members, an operating rod mounted for lateral movement on said member, an adjusting block, means including a threaded element for supporting the adjusting block on the operating rod adjacent said first pivot pin, a resilient rod wrapped loosely about the first pivot pin for at least a full turn, means to provide operative engagement between a first end of said resilient rod and the adjustment block, a pair of vertically spaced clamping plates joined at a medial point by a second vertical pivot pin, the second pivot pin being hingedly secured to the second end of the resilient rod, and clamping means provided on the other of said members, so that movement of the operating rod in one direction will cause material positioned between said members to be gripped resiliently between the clamping plates and said clamping means, and movement of the operating rod in the other direction will retract the clamping plates away from said material.

2,530,376
VACUUM DISTILLATION
Francis J. Castle and Robert E. Beal, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture
Application February 27, 1948, Serial No. 11,763
4 Claims. (Cl. 202—187)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A still comprising in combination a condensing surface and a tubular, smooth, heated evaporation surface spaced from the condensing surface, said evaporation surface having tightly fitted thereon a readily removable, flexible, pliable, and permeable covering sleeve of inert, acid-resistant, non-metallic, mesh fabric of mineral matter, to distribute the distilland supplied to the heated evaporation surface and to retain substantially all tarry and gummy residue formed at the evaporation surface and thus prevent the evaporation surface itself from collecting the said residue material, and means to supply distilland to the heated evaporation surface.

2,530,377
AUTOMATIC OPEN CENTER SIX PORT CONTROL VALVE
Leo M. Chattler, Washington, D. C.
Application August 22, 1949, Serial No. 111,754
1 Claim. (Cl. 277—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

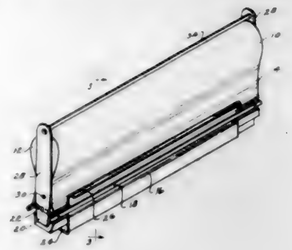


An automatic, six port valve for regulating the flow of fluid in a hydraulic system and for controlling the operation of various devices by said fluid comprising a valve body, a chamber within said body disposed about the longitudinal axis thereof, a valve member slidably journalled in the end walls of said body, in movable contact with the sidewalls of said chamber and adapted to take one of two operating positions within said chamber, two additional chambers within said valve member separated by a partition wall and disposed about the longitudinal axis of said valve member, a spool slidably journalled in said partition wall extending into both of said additional chambers, a piston mounted on said spool in each of said additional chambers dividing each chamber into two compartments, a plurality of channels in each piston communicating with the said compartments of the chamber in which they are positioned, resilient means slidably mounted near one end of said spool, spaced collars keyed to said spool for transmitting the thrust of said resilient means to said spool, an inlet port in the sidewall of said valve body, six annular grooves in spaced relationship in the periphery of said valve member, the second groove adapted to register with said inlet port in one extreme position of said valve member and the third groove adapted to register therewith in the other extreme position thereof, a channel in said valve member connecting said second annular groove with one compartment in the first of said additional chambers, a channel in said valve member connecting the other compartment in the first additional chamber with the first annular groove in said valve member, an outlet-inlet port in the sidewall of said valve body in registration with said first annular groove whereby a continuous path of flow of fluid from said inlet port to said outlet-inlet port is provided, a discharge port in the sidewall of said valve body in registration with the fourth

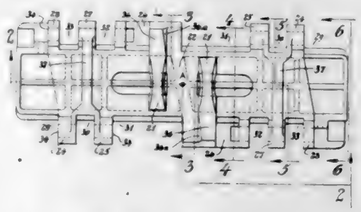
or fifth of said annular grooves in the periphery of said valve member when the latter is in either one of its said two operating positions, a channel in said valve member connecting said fourth annular groove with one compartment in the second additional chamber, a channel in said valve member connecting the other compartment in said second additional chamber with the sixth annular groove in the periphery of said valve member, an inlet-outlet port in the sidewall of said valve body in communication with said sixth annular groove, whereby a continuous path of flow of fluid from said inlet-outlet port to said discharge port is provided, an open center inlet port in the sidewall of said valve body, two spaced channels in the sidewall of said valve body connecting said center inlet port with the chamber in said valve body, a transverse channel in said valve member, positioned midway between the ends thereof, in registration with one or the other of said spaced channels when said valve member is in either one of its operative positions, an outlet open center port in the sidewall of said valve body, two spaced channels connecting said outlet center port with the chamber in said valve body, one or the other of said spaced channels in registration with said transverse channel when said valve member is in either one of its operative positions, an annular groove on said spool positioned midway between said pistons thereon in registration with said transverse channel when fluid pressure on both sides of said pistons is equalized, whereby a continuous path of fluid flow transversely through the center of said six port valve is provided, a channel in said valve member connecting the third annular groove in the periphery of said valve member with one compartment in the second of said additional chambers and a channel in said valve member connecting one compartment in the first of said additional chambers with the fifth annular groove in the periphery of said valve member, whereby upon movement of said valve member to either one of its operative positions fluid may be directed from said inlet port to either one of said inlet-outlet ports, the return fluid may be directed from either one of said inlet-outlet ports to said discharge port, fluid flow from said center inlet port to said center outlet port stopped by the off-setting of said annular groove on said spool from registration with said transverse channel in said valve member and upon equalization of pressures on both sides of said pistons restored by the automatic movement of said annular groove into registration with said transverse channel by said resilient means.

2,530,378
STENCIL STAMP
Sammy G. Collins, Oklahoma City, Okla.
Application September 14, 1949, Serial No. 115,753
2 Claims. (Cl. 101—125)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. A quick renewable stencil stamp which comprises a body block having two longitudinal grooves one on each side of the block near the lower edge and two transverse grooves one on each end of the block joining the ends of the longitudinal grooves stencil clamping rods lying in the longitudinal grooves with the ends extending through the transverse grooves and slightly beyond the ends of the block, springs in the transverse grooves having the ends hooked over the ends of the stencil clamping rods, whereby the stencil clamping rods are drawn tightly into the bottoms of the longitudinal grooves, an inking pad fast on the bottom of said block, levers on the ends of the block extending from the bottom of the block to a point above the top, the lower ends of the levers extending loosely between the ends of the stencil clamping rods, axially aligned fulcrums for said levers carried by said block intermediate the ends of said levers, and means joining said levers for coincident movement, whereby rocking of the levers about their fulcrums in one direction raises one stencil clamping rod out of its longitudinal groove and rocking the levers about their fulcrums in the other direction raises the other stencil clamping rod out of its longitudinal groove.



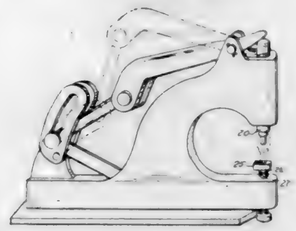
2,530,379
TREAD-BELT LINK AND COOPERATING DRIVING TUMBLER
Trevor O. Davidson, Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Continuation of application Serial No. 739,631, April 5, 1947. This application October 30, 1947, Serial No. 783,192
15 Claims. (Cl. 305—10)



1. A tread belt link for a creeping traction unit, said link having: a ground-engaging surface on the bottom face thereof; a wheel-receiving channel on the top face thereof; two upstanding wheel-guiding driving flanges, located opposite each other laterally across the channel; at least one tumbler-bearing surface laterally disposed with respect to the channel, and longitudinally aligned with a driving-flange; and means for connection to adjoining links.

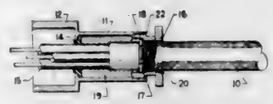
2,530,380
FASTENER SETTING MACHINE WITH DEPRESSIBLE WORK-SUPPORTING MEMBER
Emanuel Diamond, Philadelphia, Pa., assignor of one-half to Clarence Frankford, Havertown, Pa.
Application December 14, 1948, Serial No. 65,190
5 Claims. (Cl. 218—5)

1. In a fastener-attaching machine having a lower fixed die constructed and arranged to hold a fastener element and having an upper movable die constructed and arranged to hold a complementary fastener element in vertical alignment with the first-mentioned fastener element and having means for forcing the movable die downward so as to bring said elements into inter-locking relationship; a generally vertical pin positioned adjacent said fixed die and constructed and



arranged so as to hold the tip of an umbrella-cover, and means permitting said pin to move downward relative to said fixed die during at least the latter part of the downward movement of the movable die thereby to minimize pull on the cover during the inter-connecting operation of the fastener elements.

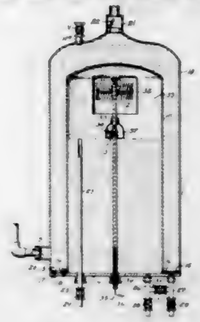
2,530,381
COUPLING FOR ARMORED CABLE
Bernard J. Donohue, Jr., Stonehurst, Pa.
Application January 22, 1946, Serial No. 642,782
10 Claims. (Cl. 174—18)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



10. A fluid-tight seal for armor-encased conductors, comprising a tubular housing having apertured partition means dividing said housing into aligned chambers, one thereof being adapted to contain a viscous material, said one chamber having an open end for admitting an armor conductor, insulating spacer means in the aperture of said partition means for supporting the conductor in fluid-tight relation, and clamping means at the open end of said one chamber and including means defining a vent for passing part of the viscous material therethrough and onto the armor of the conductor exteriorly adjacent said chamber, thereby to effect a fluid-tight seal.

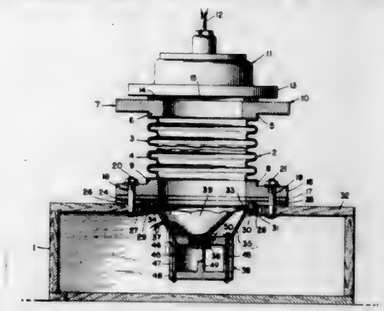
2,530,382
HEATING WATER BY ELECTRICITY
Orville Downs, Clayton, N. J.
Application May 5, 1948, Serial No. 25,121
8 Claims. (Cl. 219—39)

1. A heating and cooling unit comprising an outer tank having inlet and outlet connections, an inner tank positioned in the outer tank and spaced from the walls thereof, a heating element positioned in the upper part of the inner tank, a switch also positioned in the upper part of the inner tank connected in a circuit to the heating element, a tubular connection extending from the upper part of the inner tank to the exterior of the unit a valve in said tubular connection, a connection from the lower end of the inner tank to the lower end of the outer tank, and means



actuating the switch to open and close a circuit to the heating element.

2,530,383
MICROPHONE TESTING DEVICE
Nelson N. Estes, Austin, Tex., and Lawrence Fleming, Falls Church, Va.
Application September 3, 1947, Serial No. 771,958
16 Claims. (Cl. 179—175.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

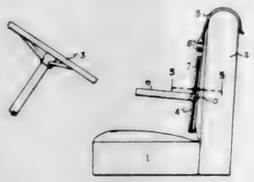


1. In apparatus of the character disclosed, in combination, a source of acoustic energy, and means forming an acoustic chamber for coupling the source to a microphone, said means including a tubular wall portion having the ends thereof respectively closed and hermetically sealed by the microphone and source of acoustic energy, the diameter of said wall portion alternately increasing and decreasing along the length thereof whereby said wall portion is characterized by radial stiffness and longitudinal flexibility, thereby to dampen spurious vibrations of the microphone in response to random shocks received by said source.

2,530,384
ARMREST FOR VEHICLE USE
Leon I. Faggen, Detroit, Mich.
Application August 18, 1948, Serial No. 44,930
3 Claims. (Cl. 155—112)

1. An attachment for a vehicle seat, comprising a vertically elongated support of substantially constant width having opposed substantially parallel longitudinal edges and tracks at such edges, each forming a groove, an arm rest forwardly extending from said support, and hooks secured to the rear end of the arm rest,

straddling the support and slidably fitted in said grooves, said rest with its hooks being slidable up and down on the support, and said hooks re-



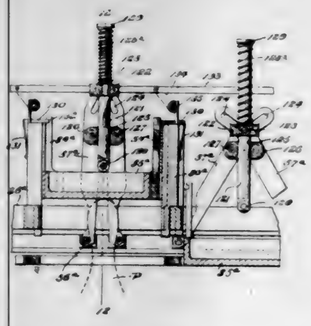
taining the rest in an adjusted position due to a binding effect of the hooks resulting from the gravitational turning moment of the arm rest.

2,530,385

BOWLING PIN RAISING AND LOWERING MECHANISM

Sanders A. Frye, Westerville, Ohio, assignor, by mesne assignments, to American Machine and Foundry Company, Brooklyn, N. Y., a corporation of New Jersey

Application July 11, 1944, Serial No. 544,381
25 Claims. (Cl. 273—43)



1. Bowling alley apparatus comprising a vertically movable frame mounted above the pin-receiving section of an associated alley, said frame being formed with a plurality of pin-receiving openings disposed for registration with bowling pins standing on the alley, vertical and horizontal guides formed with said frame adjacent to each of said openings, a movable head arranged in each of said openings and cooperative with said vertical guides, each of said heads having a substantially flat extended undersurface providing a wide contact clamping area relative to the head of a pin standing on or off-spot on said alley, means for raising and lowering said frame to bring the under surfaces of said heads into clamping engagement with the upper ends of bowling pins standing on said alley whereby to maintain the heads clamping pins relatively stationary during lowering movement of said frame, movable pin gripping members, means mounting said gripping members for linear movement in said horizontal guides, and positively actuated means operated by a head or heads in response to the downward movement of said frame relative to a pin or pins clamped by said pin clamping head or heads upon said alley against displacement thereon for effecting the movement of said grippers in said horizontal guides into pin gripping engagement with an on or off-spot standing pin or pins clamped by said head or heads on said alley.

2,530,386

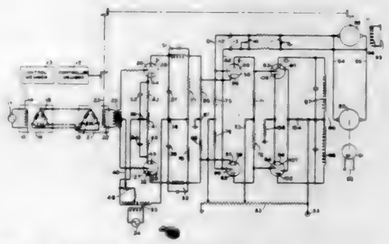
WITHDRAWN

2,530,387

MOTOR CONTROL CIRCUIT

Raymond C. Goertz, Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application May 24, 1944, Serial No. 537,100
22 Claims. (Cl. 318—30)



12. A motor control circuit for operating a motor jointly by two control signals comprising a first balanced control circuit for producing unidirectional voltages of the same polarity across two relatively low output impedances arranged symmetrically in a balanced circuit having a common cathode connection in said control circuit, a mixer amplifier having a pair of electron discharge devices arranged in a balanced circuit with their cathodes connected through relatively large impedances to a source of potential, and their control electrodes and anodes connected through symmetrically arranged impedances to the same source of potential, means external to said anode cathode circuit and for connecting said cathodes across said output impedances to control the space currents of said devices according to the voltage differential between said unidirectional voltages, a second control circuit including a shunting circuit for controlling the voltage differential applied to said control electrodes, said cathodes and control electrodes being connected to said potential source to bias said devices in a manner such that the difference between the space currents of said devices is substantially proportional to the difference between said voltage differences, and control means connected to said devices responsive to the difference between said space currents and adapted to control the operation of a motor.

2,530,388

MOISTENING ROLLER FOR DUPLICATING MACHINES

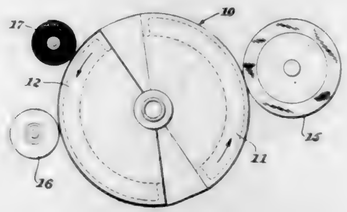
Harold R. Gullixson, Arlington, Va., assignor, by mesne assignments, to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia

Application November 5, 1947, Serial No. 784,242
5 Claims. (Cl. 101—147)

1. A moistening roll for duplicating machines comprising a strip of thin, non-woven fabric sheet material, comprising textile fibers intermingled and entangled in unorganized, crossed relation and pressed together into adherence with each other, said sheet being wound upon itself in a plurality of convolutions and having a rough, ragged outer end edge composed of a great plurality of irregularly arranged outwardly projecting fibers, secured in place by intermingle-

ment, entanglement, or felting with the surface fibers of the convolution therebelow.

5. The method of renewing the soiled outer surface of a moistening roll in a duplicating machine, said roll comprising a strip of non-woven fabric material made up of textile fibers intermingled and entangled in unorganized, crossed relation and adhered together, said strip being wound upon itself in a plurality of convolutions, and having a rough, ragged outer end edge composed of a great plurality of irregularly arranged outwardly projecting fibers secured in place by interengagement with the surface fibers



of the convolutions therebelow, which comprises disengaging said edge from the convolution therebelow, unwinding at least the outer soiled convolution from the roll, severing the soiled fabric from the strip and securing the new end edge of the strip so formed to the outer surface of the underlying convolution by engaging the fibers along said edge with the surface fibers of said underlying convolution.

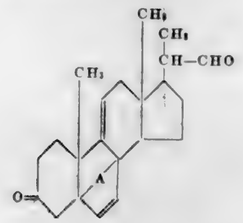
2,530,389

ADDUCTS OF BISNOR-5,7,9(11)-CHOLATRIEN-22-AL-3-ONE

Robert H. Levin and A. Vern McIntosh, Jr., Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 23, 1949, Serial No. 111,972
8 Claims. (Cl. 260—239.55)

1. A bisnor-5,7,9(11)-cholatrien - 22 - al-3-one adduct of the formula:



wherein A is an adduct radical derived from a dienophile selected from the group consisting of maleic acid, maleic anhydride, and lower-alkyl diesters of maleic acid, wherein the esterifying radicals are of solely hydrocarbon nature and contain from one to eight carbon atoms, inclusive.

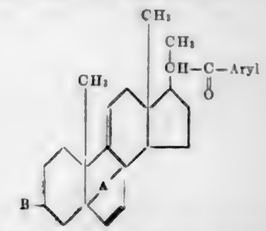
2,530,390

ADDUCTS OF 22-ARYL-BISNOR-5,7,9(11)-CHOLATRIEN-22-ONES

Robert H. Levin and A. Vern McIntosh, Jr., Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 23, 1949, Serial No. 111,973
6 Claims. (Cl. 260—239.55)

1. A 22-arylbisnor-5,7,9(11)-cholatrien-22-one adduct represented by the formula:



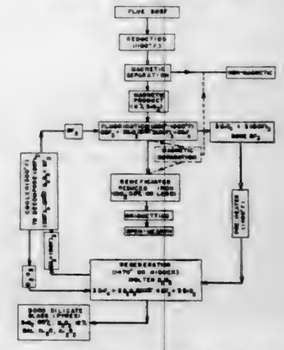
wherein B is a member of the group consisting of hydroxyl and an acyloxy group derived from an unsubstituted monocarboxylic aliphatic acid containing from one to eight carbon atoms, inclusive; A is an adduct radical derived from a dienophile from the group consisting of maleic acid, maleic anhydride, and di-lower-alkyl esters of maleic acid, wherein the esterifying groups are solely of hydrocarbon nature and contain from one to eight carbon atoms, inclusive; and wherein aryl is an unsubstituted aryl radical of solely hydrocarbon nature containing up to and including twelve carbon atoms.

2,530,391

PROCESS FOR REMOVING SILICA FROM IRON

Vincent S. de Marchi, Chicago, Ill., assignor, by mesne assignments, to Inland Steel Company, Chicago, Ill., a corporation of Delaware

Application May 10, 1945, Serial No. 592,955
3 Claims. (Cl. 75—1)



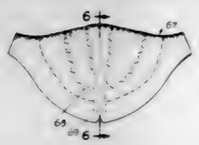
3. The method of reducing the silica content of finely divided iron which comprises contacting said iron with boron trifluoride at a temperature of at least 600° F., separating the resulting mixture of silicon tetrafluoride and boron oxyfluoride from said iron, contacting said mixture of silicon tetrafluoride and boron oxyfluoride with molten boric oxide at a temperature of at least 1470° F. to convert said silicon tetrafluoride into boron trifluoride, cooling said gaseous mix-

ture to decompose said boron oxyfluoride and to form additional amounts of boron trifluoride, and contacting additional amounts of said finely divided iron with said regenerated boron trifluoride.

2,530,392
SHOULDER PAD
Harold Lopato, New York, N. Y., assignor to Majestic Shoulder Pad Corp., New York, N. Y., a corporation of New York
Application May 16, 1949, Serial No. 93,531
3 Claims. (Cl. 2—268)

3. In the method of manufacturing a pair of shoulder pads; the steps of forming a pair of panels each having a substantially concaved edge, seaming said concaved edges of said pair of panels together to form a saddle-shaped blank, securing an elliptical filler to the under surface of said blank with the major axis of said filler underlying the seam, and cutting said blank and said filler along a plane disposed at right angles to a plane extending through the seam of the blank to thereby form a pair of shoulder pads each having an outwardly sloping crest.

2,530,393
SHOULDER PAD
Harold Lopato, New York, N. Y., assignor to Majestic Shoulder Pad Corp., New York, N. Y., a corporation of New York
Application May 16, 1949, Serial No. 93,532
3 Claims. (Cl. 2—268)



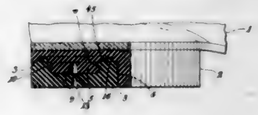
3. In the method of manufacturing a pair of shoulder pads; the steps of forming a pair of panels each having a substantially convexed edge, seaming said convexed edges of said pair of panels together to form a hump-shaped blank, securing an elliptical filler to the under surface of said blank with the major axis of the filler underlying the seam, and cutting said blank and said filler along a plane disposed at right angles to a plane extending through the seam of the blank to thereby form a pair of shoulder pads in which a plane passing through the outer edge of each pad and the crest of the pad enclose an acute angle.

2,530,394
ELECTRODE COATING FOR DISCHARGE DEVICES
Erwin F. Lowry, Lynn, Eric L. Mager, Peabody, and Gerald W. Keilholtz, Lynn, Mass., assignors to Sylvania Electric Products, Inc., Salem, Mass., a corporation of Massachusetts
Application June 5, 1947, Serial No. 752,698
20 Claims. (Cl. 176—126)

1. A coating material for electric gaseous discharge device electrodes comprising at least one oxide of an alkaline earth metal and a quantity

of zirconium dioxide equal to about 6% by weight of the total weight of all the oxides.

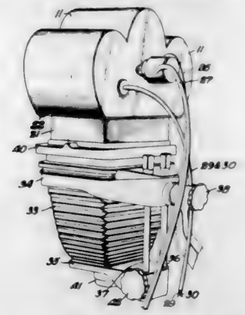
2,530,395
CUSHION HEEL
Paul Maass, Hollis, N. Y.
Application May 8, 1948, Serial No. 25,909
3 Claims. (Cl. 36—36)



1. A heel for a shoe comprising a main member with a wide cavity extending into it from the rear and opening through the bottom of the heel, a removable member conforming in size and shape to the cavity, to fit the same snugly and being flush with the outer surfaces of said heel, one of said members having a broad protuberance, and the other having a depression conforming in shape to the protuberance, said depression and said protuberance having interfitting means at the edges for joining the section to the heel, with said section and said protuberance in tight engagement within said cavity, the protuberance having recesses open through the outer face to enable it to be contracted for insertion into said depression, said heel having small ducts open to the air in position to communicate with said recesses.

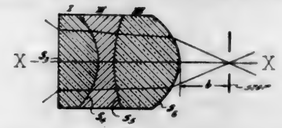
2,530,396
APPARATUS FOR PHOTOGRAPHIC REPRODUCTION BY MEANS OF AN ELECTRONIC FLASH BULB
Frank L. McGuffin, Inglewood, Calif.
Application January 23, 1948, Serial No. 4,053
1 Claim. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An electronic flash enlarger head comprising a plurality of curved reflectors, a socket for a focusing electric light substantially at the optical center of each of two reflectors and a socket for a gaseous electronic flash tube having an axis centrally located with respect to the optical axis of said head, and substantially at the optical center of a central curved reflector, means for supplying high voltage static surges to said flash



tube socket, and means for at will closing the circuit to said flash tube socket.

2,530,397
ANASTIGMATIC LENS
Willy Walter Merté, Heidenheim/Brenz, Germany; Henry L. Beigel ancillary administrator of said Willy Walter Merté, deceased
Application February 18, 1948, Serial No. 9,241
3 Claims. (Cl. 88—57)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



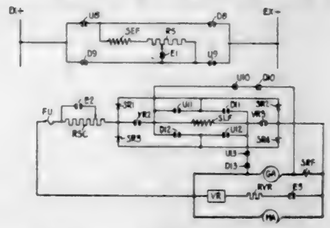
1. A wide angle lens component having a plano surface on the side of the longer conjugate and a conic curve surface of revolution on the side of the shorter conjugate with the vertex thereof being directed rearwardly and having a stop positioned behind said conic curve surface of revolution, said conic curve surface of revolution being a curve produced by the second order equation

$$y^2=\frac{a_1^2-4a_1b}{4b^2}x^2+4a_1x \text{ where } a_1=-2f_0(n-1)$$

b is the distance of the stop from the rear lens vertex, f_0 is the paraxial focal length, n is the index of refraction, x is the coordinate along the X axis of revolution, and y is the ordinate normal to the X axis of revolution, whereby paraxial and oblique rays entering through the plano surface are all refracted from the conic surface of revolution into an anastigmatic image.

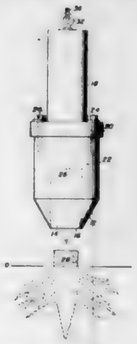
2,530,398
GENERATOR CONTROL SYSTEM
Arthur Willard Paulson, Summit, N. J., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application April 11, 1947, Serial No. 740,735
12 Claims. (Cl. 318—140)

1. In combination; a direct current motor; a direct current generator for supplying current to said motor, said generator having an armature, a separately excited field winding, a series field winding and a self-excited field winding; a source of direct current for said separately excited field winding; a circuit for connecting said separately excited field winding to said source for a given polarity of generator excitation; a plurality of unidirectional current conducting means arranged in a bridge connected to said



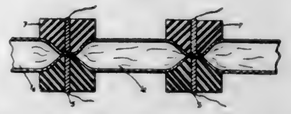
generator armature; and a circuit for connecting said self-excited field winding across the diagonal of said bridge for current flow therein in a direction for said given polarity of generator excitation.

2,530,399
STUMP ELIMINATOR
Joseph A. Pilgrim, Elberta, Ala.
Application June 24, 1949, Serial No. 101,138
5 Claims. (Cl. 37—2)



1. A device for clearing stumps comprising a substantially cylindrical member having a cutter at one end for cleaving roots of a tree stump while it is in the ground and as the longitudinal part thereof passes into the bore of the member, and a hammer disposed in the bore of the sleeve for striking the top of the longitudinal part of the stump to force it into the ground in the same operation that the roots are cleft.

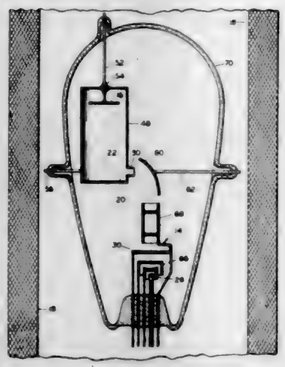
2,530,400
PROCESS FOR THE PRODUCTION OF CONTAINERS FILLED WITH LIQUIDS OR PASTES
Leopold Rado, Whitehaven, England
Application September 10, 1946, Serial No. 696,059
In Great Britain September 19, 1945
7 Claims. (Cl. 93—3)



1. A process for the production of plastic containers for fluid substances wherein a plurality of individual containers are provided each con-

taining a desired amount of fluid substance therein consisting of: firstly, sealing one end and filling a length of thermoplastic tubing with a fluid substance through the open end the length being at least greater than the length of a single container to be formed and the amount of fluid substance being at least in excess of that amount required for one container; secondly, pressing the tube walls together at a point where sealing is to be effected such pressure extending beyond the immediate area to which heat is to be applied for sealing the side walls of the tube at distances apart equal to the length of at least one container while the pressing medium is at a temperature less than the melting point of the tubing thereby displacing the contents of the tube from the area where welding will take place; and thirdly, thereafter applying heat to the pressing medium effecting a welding of the contacting walls of the tubing whereby a tube-like container sealed at both ends is produced.

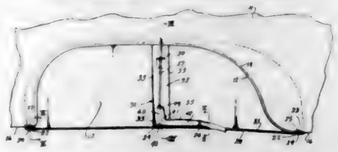
2,530,401
PULSE-ECHO SYSTEM UTILIZING AN ELECTRON BUNCHER TUBE
Jerome Rothstein, Belmar, N. J.
Application January 14, 1943, Serial No. 472,351
18 Claims. (Cl. 343—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



11. Pulse generating apparatus comprising an electron source, a control electrode, a collector plate, a magnet providing a magnetic field, means to guide the electron stream in a direction perpendicular to the said field, an alternating current generator having the desired pulse frequency, a control wave generator driven thereby, connections applying said control wave to the aforesaid control electrode, a phase shifter for a portion of the aforesaid alternating current, a collector wave generator driven by the phase-shifted alternating current, and connections for applying the resulting collector potential to the collector.

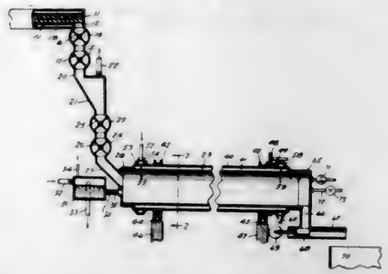
18. A pulse echo system for locating and ranging, said system comprising a directive antenna, an untuned pulse generator as defined in claim 11 connected to said antenna, at least one directive receiving antenna, and an untuned receiver connected to said antenna, a tracking oscilloscope energized from said untuned receiver, and a sweep wave generator for the oscilloscope, said sweep wave generator being driven by a portion of the alternating current referred to in claim 11 in order to maintain all parts of the system in synchronism.

2,530,402
FENDER SHIELD
George W. Schatzman, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 29, 1946, Serial No. 693,785
12 Claims. (Cl. 280—153)



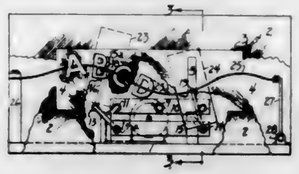
3. In combination in clamping and latching structure for a fender shield, a vertical supporting bar having the upper end thereof adapted for engagement with the upper end of the fender shield, a clamping and latching rod reciprocably supported by said bar and having an upper clamping end portion adapted to cooperate with the upper end of the bar for clamping the edge of a fender therebetween, and a bell crank actuating lever mounted at the foot of said bar and having the short arm thereof pivotally secured to the lower end of the latch rod, said arm being angularly disposed in such relation to the long arm of the actuating lever so that in the clamping position of the clamping rod, the pivotal connection with the rod is over center relative to the pivot of the lever to afford an over center lock against unintentional unlatching of the rod.

2,530,403
CONTINUOUS XANTHATION
Stewart E. Seaman, White Plains, N. Y.
Application November 21, 1946, Serial No. 711,339
7 Claims. (Cl. 260—216)



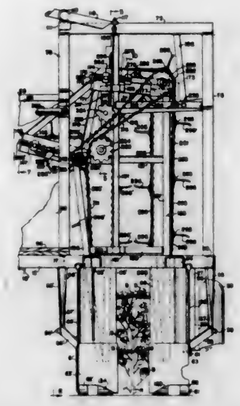
7. In a continuous process for xanthating alkali cellulose, the steps which comprise substantially continuously passing alkali cellulose in the form of a loose crumb through a gas-evacuating zone, continuously evacuating gas from the loose crumb in the gas-evacuating zone, and then, without appreciably compacting the loose crumb, continuously introducing the loose crumb discharged from said zone into a previously evacuated xanthating zone in the presence of carbon bisulfide vapor, continuously agitating the crumb in the xanthating zone while advancing the crumb therethrough, substantially continuously removing the xanthated crumb from the xanthating zone, and substantially preventing the transfer of gas into and out of said zones with the crumb, the prevention of gas transfer at the discharge end of the xanthating zone being effected by compacting the xanthated crumb to a comparatively hard mass which forms a vapor seal.

2,530,404
ANIMATED SIGN
Richard U. Seares, Pasadena, Calif.
Application September 14, 1946, Serial No. 697,064
7 Claims. (Cl. 40—139)



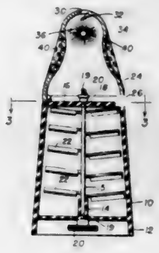
1. A device for producing a progressive wave in a flexible ribbon, comprising a flexible ribbon, spaced supports for said ribbon said ribbon being firmly attached at said supports, an intermediate support between said spaced supports, means for moving said supports relative to each other, and means for flexing said ribbon to produce an advancing wave in said ribbon.

2,530,405
MOVING COMB TYPE COTTON HARVESTER
Starr W. Shelley, Charlotte, N. C., assignor to L & S Manufacturing Co., Charlotte, N. C., a corporation of North Carolina
Application May 13, 1947, Serial No. 747,639
7 Claims. (Cl. 56—35)



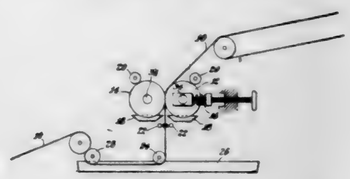
1. In a cotton picker for severing cotton bolls from cotton plants, having a wheeled framework and a vertically disposed inverted U-shaped framework mounted in the wheeled framework, and having a pair of substantially vertically disposed endless conveyors mounted therein and said endless conveyors having a plurality of transverse spaced rows of closely spaced tines secured thereto and means for driving the conveyors so that their proximate sides move upwardly at the same rate of speed, and whereby a row of tines on one conveyor will move upwardly alongside a row of tines on the other conveyor, a laterally directed leg portion integral with the upper end of each of the conveyors, whereby the bolls will fall from the leg portions of the conveyors by gravity.

2,530,406
SALT SHAKER
Marion De Leon Singletary, Bishopville, S. C., assignor of twenty per cent to James E. Latimer, Bishopville, S. C.
Application February 17, 1947, Serial No. 729,169
2 Claims. (Cl. 222—331)



1. In a condiment dispenser which includes a receptacle, an upwardly extending hollow cap having dispensing apertures in at least one side thereof and detachably carried by said receptacle, a slot in the top of said cap, a flange depending from one edge of said slot within said cap, a brush rotatively mounted in said cap beneath said slot, said brush having bristles, the ends of which engage said flange to agitate the bristles while the brush is rotated, thereby retaining the brush in a substantially condiment free condition and assisting in ejecting condiment through the slot in said cap.

2,530,407
PRESSURE ROLL FOR FORMING BONDED FIBER WEBS
John J. Smith, Springfield, Mass., assignor to Chicopee Manufacturing Corporation, a corporation of Massachusetts
Application November 29, 1944, Serial No. 565,756
12 Claims. (Cl. 68—127)

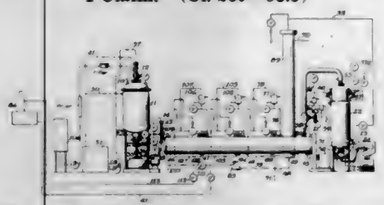


4. Apparatus for making bonded fiber webs comprising in combination a pair of pressure rolls having elastic outer portions, the rolls being adapted to be rotated to feed a fiber web between them, the surface of each roll being composed of interspaced flexible elements having relatively high and relatively low compressibility respectively radially of the roll, and means for urging the rolls together to deform the surfaces into a substantially plane surface of contact between the rolls and to move the outer surfaces of the elements of high compressibility radially with respect to the surfaces of the elements of low compressibility, whereby the high compressibility elements will move radially with respect to the low compressibility elements as the surfaces of the rolls separate from each other in rotating.

2,530,408
DITHIOCYANATES
Eldon E. Stahly, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application December 28, 1945, Serial No. 637,764
7 Claims. (Cl. 260—454)

1. A composition of matter comprising a benzocycloalkene dithiocyanate.

2,530,409
METHOD FOR POLYMERIZING STYRENE
Kenneth E. Stober and James Lawrence Amos, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application May 27, 1948, Serial No. 29,593
1 Claim. (Cl. 260—93.5)

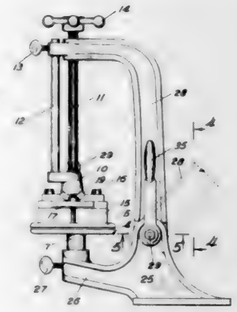


The method which comprises adding monomeric styrene at a constant rate to the top of a body of styrene maintained throughout its mass at a constant and uniform polymerization temperature between 80° and 110° C. under conditions to minimize vertical mixing of styrene in various stages of polymerization, continuously withdrawing partially polymerized styrene from the bottom of said mass at the same constant rate which is so chosen that, at the prevailing temperature, the styrene withdrawn has polymerized to a constant value between 20 and 50 per cent of the extent theoretically possible and has a substantially constant viscosity, continuously introducing the so-withdrawn partial polymer into an elongated horizontal cylindrical polymerization zone, continuously mixing the polymerizing material in the zone with other such material therein having attained a similar degree of polymerization while advancing the polymerizing material through the zone and exposing it to progressively higher temperatures to maintain at all stages of polymerization therein a fluid consistency in the polymer, continuously withdrawing the substantially fully polymerized fluid styrene from the polymerization zone, dividing the polymer while still fluid into fine streams in an inert atmosphere to expose a large surface relative to the mass thereof and to remove substantially all of the remaining volatile matter from the polystyrene, and continuously discharging the devolatilized polystyrene from the devolatilization zone without admitting air to said zone.

2,530,410
PROCESS FOR THE PRODUCTION OF PYROSULFURYL CHLORIDE
Michael Sveda, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 7, 1945, Serial No. 609,498
3 Claims. (Cl. 23—203)

1. In a continuous process for the production of pyrosulfuryl chloride, the steps comprising continuously introducing gaseous sulfur trioxide and gaseous sulfur dichloride in a mol ratio of at least 3:1 into a space reaction chamber, mixing the gases at a temperature of about from 120 to 140°, whereby reaction between them occurs, and continuously withdrawing the product of the reaction from the reaction chamber as a liquid condensate.

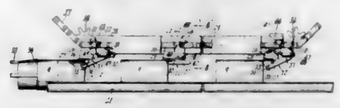
2,530,411
VULCANIZING SPOT PRESS
Melvin W. Van Scoyk, Denver, Colo., assignor to Winner Equipment Company, Denver, Colo., a corporation of Colorado
Application April 9, 1946, Serial No. 660,667
2 Claims. (Cl. 18—18)



1. A vulcanizing press for inner tubes and the like comprising a base member, a mold member on said base, threaded means for securing said mold member in a fixed position on said base, a frame member pivotally mounted on said base member having a threaded passage in its outer extremity, a threaded member for engagement in said passage, a second mold member mounted on said threaded member for movement therewith, guide means for positioning said second mold member with respect to said frame member, means for releasably securing said guide means to said frame member, a heating plate contiguous with said second mold member, a raised portion on said base member and a complementary recessed portion formed on said frame member for locking said frame member in a position of registration with said base member, a cam member for urging said raised and recessed portions into engagement to align said mold members, and a spring for urging said portions out of engagement when the cam is released to allow pivotal movement of said frame member facilitating the removal of materials from between said mold members.

2,530,412
CONVEYER WITH TOGGLE LOCKING FEED DOG
Sydney Johnstone Wallace, Vancouver, British Columbia, Canada, assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 9, 1947, Serial No. 790,467
6 Claims. (Cl. 198—179)

1. A movable chain conveyor having a plurality of gripper devices thereon in spaced order for gripping can bodies and other articles and for pulling them along a path of travel in a continuous procession, each of said gripper devices comprising a carrier member constituting a link of said conveyor, a fixed jaw on said carrier member, a movable clamping member pivotally mounted on said carrier member, a jaw on said movable member for cooperation with said fixed jaw on said carrier member, a locking element pivotally carried on one of said members and engageable with the other of said members and operable for locking itself and the jaws of said

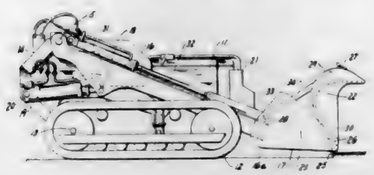


members in closed position for tightly gripping and pulling a can body along said path of travel, and cam means disposed adjacent said path of travel for pivoting the locking elements of each of said gripper devices into locking position for gripping and holding said can bodies, and auxiliary cam means also disposed adjacent said path of travel for pivoting the locking elements of each of said gripper devices into an unlocked position for releasing said can bodies.

2,530,413
CONTAINER
Albin H. Warth, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application October 29, 1945, Serial No. 625,246
3 Claims. (Cl. 220—64)

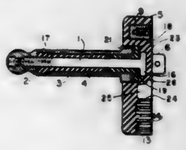
3. An alloy composed of 93 to 100 parts of tin, 0.1 to 3.5 parts of silver and 0.03 to 3.5 parts of indium, except for incidental impurities.

2,530,414
COMBINED BULLDOZER AND TRACTOR SHOVEL
Robert L. Wells, Douglas, Ga., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Application May 19, 1948, Serial No. 27,993
3 Claims. (Cl. 214—140)



1. In a material-handling implement for attachment to a tractor, the combination of: push means attachable to the tractor, and including longitudinal side plates as a rigid part thereof; means, supportable by the tractor, for raising and lowering the push means; a transverse bottom plate, pivotally supported adjacent its forward edge by the push means, the side plates serving as closures for the ends of the bottom plate, to form therewith a dirt-holding bucket when the bottom plate is in recumbent dirt-carrying position; and power-operated means to swing the bottom plate from recumbent dirt-carrying position to upright dirt-pushing position.

2,530,415
ELECTRICAL CONNECTOR PLUG
James Edwin Wilson, Dayton, Ohio
Application August 27, 1946, Serial No. 693,185
1 Claim. (Cl. 173—361)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

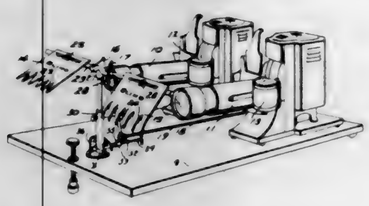


In a telephone type plug, the combination: a generally flat thin base of moulded insulating material, a plug proper extending from the principal outer face thereof normal to the major plane of the base, so that the whole has a T-shape, said plug proper comprising coaxial conductors having respective mutually spaced conductor butts and washers permanently cast within the material of the base, a cover on the base opposite the plug proper and constituting with the base a case, a cord opening formed in the case radial to the axis of the plug proper and conductor-connecting terminals for each washer; characterized by said case being extended full width toward said cord opening from the plug proper, a transverse deep knot-holding recess being formed immediately inward of and wider than said cord opening, the base having a major thickened planiform end portion around the plug proper with parallel planiform inner and outer faces normal to said axis and extending flush to the opposite lateral edges of the base, respective said terminals being formed on the washers extended parallel to and between said parallel faces then rectilinearly at right angles within the material of the base to and through and beyond the said inner face as short stubs spaced widely within the area of said major thickened end portion free for access from all sides, said cover being a thin planiform member fitted to the base and chambered around said terminals and over said transverse recess, said base and cover having coextensive opposed thickened extreme end parts formed with registered parts of said cord opening.

2,530,416
PROCESS FOR RECOVERING VITAMIN B_{12}
Frank J. Wolf, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application October 6, 1949, Serial No. 120,009
9 Claims. (Cl. 167—81)

1. In a process for recovering vitamin B_{12} from a starting material selected from the class consisting of fermentation broths obtained by the propagation of a vitamin B_{12} producing microorganism in a suitable nutrient medium and concentrates thereof, the step that comprises treating the starting material with a substance furnishing cyanide ions, thereby obtaining a reaction mixture containing an increased amount of vitamin B_{12}.

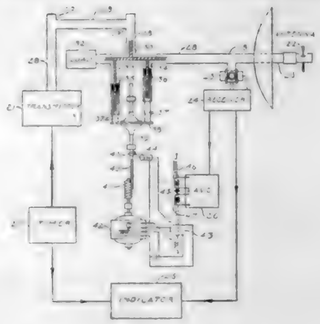
2,530,417
DISSOLVING DEVICE FOR MULTIPLE PROJECTORS
Carey M. Young, New York, N. Y.
Application July 31, 1946, Serial No. 687,503
5 Claims. (Cl. 88—28)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an optical image projector device, a pair of projectors having substantially parallel optical axes and lenses of common focal length, said projectors each having a beam of projection light; a first revoluble shaft parallel to a plane through said axes, in advance of one of said projectors, above and transverse to the beam of projection light of the latter; a second revoluble shaft colinear with and revoluble independently of said first shaft and in advance of the other of said projectors; means to rotate said shafts simultaneously in opposite directions at will; a first blind of sheet material wider than the width of the beam of projection light fixed to and substantially colinear with said first shaft, for gradual occlusion of the projection light when said first shaft is revolved from an initial position with its blind clear of the beam of projection light; a second similar blind similarly fixed to said second shaft for gradual passing of the adjacent beam of projection light when said second shaft is revolved in opposite direction to the said motion of said first shaft, from an extreme with the second blind in projection light occluding position; each blind at its beam-entering edge having generally V-shaped notches of a depth equalling a major part of the cross sectional dimension of the adjacent beam of projection light, said notches being few in number to form perceptible moving areas of light and shadow across substantial parts of a projected image while the swinging edges of the blinds are moving in the beams of projection light, so that under movement of one blind into one said beam and simultaneous movement of the other blind oppositely in the other said beam, oppositely moving irregular shadow masses will appear in the same and substantial portions of a combined image formed by the two projectors.

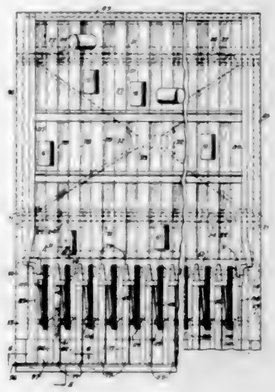
2,530,418
RADIO-ECHO DETECTION AND LOCATION APPARATUS FOR APPROACHING HOSTILE CRAFT
Luis W. Alvarez, Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 15, 1943, Serial No. 514,404
9 Claims. (Cl. 343—13)

7. A radio-echo detection and location apparatus for approaching hostile craft comprising a transmitter and receiver of radio waves, an antenna, and means connected between said transmitter and said antenna and operable in response to the intensity of energy received by said receiver for limiting the energy radiated from said apparatus to the amount necessary to



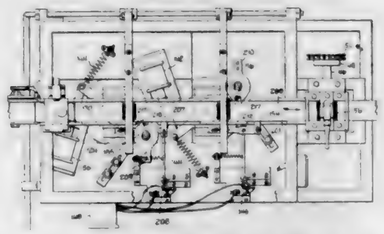
produce received echo signals of a predetermined intensity.

2,530,419
CAN UNSCRAMBLER
Eli Bourland, Millbrae Highlands, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada
Application May 10, 1946, Serial No. 668,935
4 Claims. (Cl. 198—30)



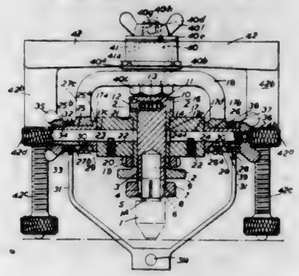
3. A can aligning machine comprising a substantially horizontal table, a chute having an upper open end extending along one edge of said table, means for feeding a plurality of parallel rows of cylindrical cans axially aligned within each row across the table toward positions above the upper open end of said chute, a corresponding plurality of cylindrical can guiding surfaces respectively positioned along said paths to provide lateral guiding support on one side of the rows of cans passing thereby, said can guiding surfaces extending across a portion of said table and across the upper open end of the chute and being so disposed that cans guided thereby may roll therefrom under the influence of gravity alone and drop down the chute, and a corresponding plurality of spring elements respectively associated with said can guiding surfaces for urging cans passing thereby toward said surfaces prior to reaching positions for dropping down the chute.

2,530,420
VENETIAN BLIND TAPE CUTTING MACHINE
David B. Brownlow and Joseph J. Markoski, Middletown, Conn., assignors to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application September 3, 1948, Serial No. 47,636
10 Claims. (Cl. 26—7)



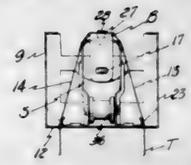
1. Mechanism for cutting the floats of ladder webbing which has two co-extending main tapes with ladders between and interconnecting the main tapes and with each float located intermediate the length of and substantially in longitudinal alignment with and extending transversely of a ladder, comprising: feed-means adapted to feed said ladder webbing longitudinally; cutter-means adapted to periodically relatively move toward a float and cut it, and away from such float; and ladder-displacing means adapted to periodically relatively displace a portion of a ladder adjacent a float to be cut, away from one main tape and transversely of the plane of, and toward the other main tape to a position out of the path-of-cut of said cutter-means, in advance of the cutting of such float.

2,530,421
APPLIANCE FOR USE IN CUTTING AND POLISHING DIAMONDS AND OTHER SUBSTANCES
Thomas P. N. Burness and Alfred Johnson, Halifax, England
Application July 30, 1947, Serial No. 764,856
In Great Britain February 21, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 21, 1962
2 Claims. (Cl. 51—229)



1. In a dop appliance for use in cutting and polishing diamonds and other gems, having a support; the combination of a sleeve mounted to be rotatably adjustable in said support; a shoulder spaced a predetermined distance from one end upon the sleeve for engagement upon one portion of the support and a threaded portion upon the other end of said sleeve; a manually operable nut mounted upon the threaded portion of the sleeve for engaging against another portion of said support to allow angular adjustment of said sleeve with respect to the latter and normally clamp against the support in order to fix the sleeve in attained position of adjustment, the sleeve having a plurality of radial indexing slots or apertures spaced apart in the one end thereof beyond the shoulder on the latter; a cylindrical member extending rotatably through said sleeve and having a transverse plunger socket extending radially a predetermined distance into the cylindrical member from one side adjacent to one end thereof at the level of the radial indexing slots of said sleeve; a plunger slidable in the plunger socket having the outer end thereof conditioned to fit in any one of said radial indexing slots; means for moving said plunger outward to engage in said radial indexing slots; a supported fork pivotally mounting said support; means for adjusting the latter with respect to the fork; an externally threaded gripping socket upon the other end of said cylindrical member for supporting a dop; a manually operated lock nut on the external thread upon the gripping socket operable to lock said cylindrical member in position with respect to said sleeve; and a further manually operated nut on said external thread on the gripping socket of said cylindrical member for adjusting said gripping socket in order to grip or release the dop at will.

2,530,422
VENETIAN BLIND
Fred J. Burns, Saginaw, Mich., assignor to The Columbia Mills, Inc., New York, N. Y.
Application August 28, 1948, Serial No. 46,589
6 Claims. (Cl. 160—177)

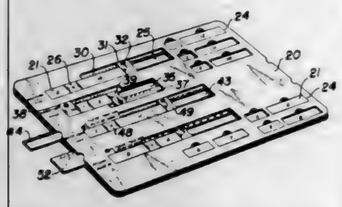


1. A Venetian blind comprising a tilt shaft, tilt brackets in axially spaced relation on said shaft, each bracket including a ladder tape anchoring means on the upper face thereof, with its axis parallel to the tilt shaft axis, and to which the upper ends of the ladder tape are connected, a fixed saddle and tape guard member directly beneath the tilt bracket and formed with vertically disposed, spaced-apart side walls and a continuous arched top section formed with rounded corners over which the tapes slide, and a horizontally disposed groove in said top section, the lower free ends of said walls being outwardly flanged, said flanges terminating in upwardly and inwardly rolled legs forming guides for the ladder tape.

2,530,423
CALCULATING BOARD
Casimir Carson, Dearborn, Mich.
Application February 27, 1946, Serial No. 650,606
5 Claims. (Cl. 35—31)

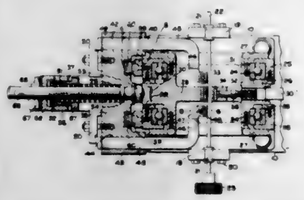
1. A device for solving mathematical problems comprising a board formed with a longitudinally extending recess having a laterally extending offset portion for a part of its length, there being numbers displayed in the offset portion and arranged in a line and progressively increasing in value from one end of the offset portion toward the other end thereof, a slider in said recess shift-

able longitudinally thereof to adjusted positions and bearing a character indicating the type of problem to be solved, a block slidable longitudinally in said recess and having a portion extending into the offset portion and formed with an opening through which the numbers are successively displayed when the block is moved along the recess to adjusted positions, and a series of indicators bearing value markings and being of



progressively increasing length and value from one end of the series of indicators to the other end thereof, the indicators being selectively fitted into the recess in abutting relation to the slider and the block and together therewith having a combined length serving to dispose the block in an adjusted position in which the number displayed through the opening constitutes the answer to the problem.

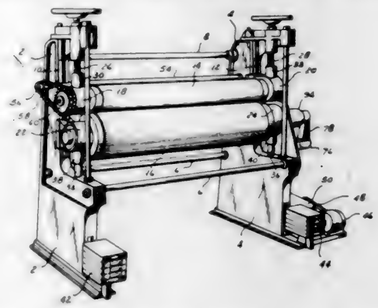
2,530,424
LAPPING MACHINE
Ernest Dickinson, Birmingham, England, assignor, by mesne assignments, to A. C. Wickman, Limited, Coventry, England, a British company
Application July 31, 1947, Serial No. 765,024
In Great Britain December 21, 1945
8 Claims. (Cl. 51—67)



3. In a lapping machine of the kind specified, a rotary workholder, and guide structures positioned on each side of the workholder, each of said guide structures comprising a fixed journal bearing for a lapping tool, and a roller positioned intermediate said bearing and the workholder and supported adjustably in relation to said bearing in a direction transverse to the axis of said bearing, said roller being provided with means for preventing movement of a lapping tool across its circumferential face.

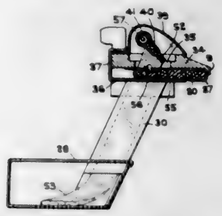
2,530,425
EMBOSSING MACHINE DRIVE
Herman Eberhardt, Fairlawn, N. J., assignor to Van Vlaanderen Machine Company, Paterson, N. J., a corporation of New Jersey
Application April 4, 1949, Serial No. 85,452
11 Claims. (Cl. 74—392)

1. In a machine including two rotary driven members mounted on axes parallel and adjacent to each other, means for mounting the first member with its axis is fixed position during operation of the machine, means for mounting the second one of the members so that its axis may move toward the axis of the first member, the improved means to drive such two rotary members in opposite directions in synchronism with each other comprising a first gear fixedly connected to and rotatable with the first one of said rotary driven members, a second gear mounted on a fixed axis generally coaxial with the second driven member and permanently meshing with the first gear, a first, hollow, shaft connected to and rotatable with the second gear, said hollow shaft lying generally coaxial with the second rotary driven member and extending



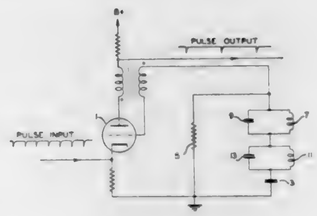
away from said second rotary driven member to a point substantially removed from the second gear and further removed from said second rotary driven member, a second shaft lying within the hollow shaft and connected thereto substantially at said point spaced from the second gear and to the second rotary driven member and rotatable with the hollow shaft, the train consisting of the hollow shaft and the second shaft rotating at the same speed as the second gear, said train incorporating serially thereof a flexible driving connection, and means for rotatably driving the connected system consisting of the two rotary driven members, the first and second gears, and the first and second shafts.

2,530,426
MOISTURE CONTROL DEVICE FOR DUPLICATING MACHINES
Frank Ronald Ford, Birmingham, England
Application March 1, 1946, Serial No. 651,265
In Great Britain January 27, 1945
2 Claims. (Cl. 101—132.5)



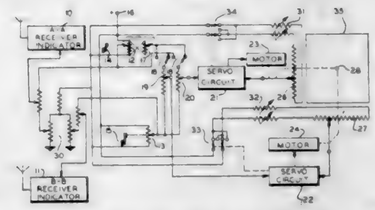
1. In a duplicating machine of the kind specified and including a frame in which is supported a rotary cylinder having a clip for holding the master sheet, moistening means for the copy sheets comprising a reservoir for moistening liquid, a support for a moistening pad including a slotted plate, a moistening pad of absorbent material in said support, end plates mounted on said slotted plate, a tube extending between said end plates, pins fixed in the ends of said tube engaging said end plates, one of said pins projecting through one of the end plates, a two-armed lever fixed on said pin, means operated by the rotation of the machine cylinder for oscillating said lever, a clip mounted on said tube, a wick having a portion immersed in the moistening liquid and a portion held in said clip, the wick portion held in said clip being moved by the oscillation of the clip in and out of contact with said moistening member, said wick being held by the clip out of contact with the moistening pad when the machine is stationary, a feeder for moistening liquid having a portion immersed in the liquid in the reservoir and a portion permanently in contact with the moistening pad, and an additional feeder for moistening liquid having a portion immersed in the liquid in the reservoir and a portion in contact with that part of the wick held by the clip, one end of said additional feeder extending through a portion of said tube and into contact with the wick portion held in the clip.

2,530,427
STABILIZED FREQUENCY DIVIDER CIRCUIT
Arden Hugo Fredrick, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 14, 1945, Serial No. 616,418
2 Claims. (Cl. 250—36)



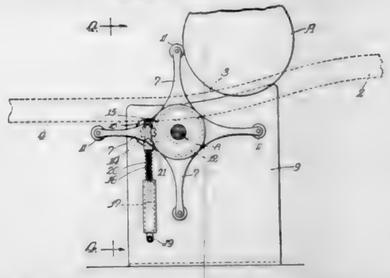
1. In a circuit for dividing the frequency of a repeated succession of pulses, a blocking oscillator circuit including an electron tube having at least an anode, a cathode, and a control grid, a pulse transformer having its primary and secondary windings respectively connected to the anode and grid of said tube, a first resistor serially connected between said secondary and ground, a plurality of parallel combinations of inductance and capacitance serially connected with a condenser and in parallel with said resistor, a second resistor being connected from said cathode to ground, and means for applying said train of pulses to said cathode, said parallel combinations of inductance and capacitance being of such values that the resultant of the alternating voltages produced therein when said oscillator blocks is an alternating voltage having alternate high and low crests, said alternating voltage when superimposed on the grid-cathode voltage of said tube thereby raising certain desired submultiple pulses of said train of input pulses and greatly depressing pulses immediately preceding and immediately following said desired pulses whereby a desired submultiple series of output pulses is obtained independently of variation in supply voltage and tube characteristics.

2,530,428
ELECTRICAL INDICATOR PLOTTING BOARD FOR LORAN NAVIGATION
John W. Gray, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 29, 1945, Serial No. 631,748
4 Claims. (Cl. 346—33)



2. Apparatus for plotting the course of a moving craft on which said apparatus is mounted, comprising, in combination, two long range navigation receiver-indicators each of which includes a delay multivibrator in which adjustment of the grid voltage of one tube of each functions to superimpose corresponding pulses from respective pairs of stationary transmitters on its visual indicator, a pair of potentiometers for respectively adjusting said grid voltages, and a plotting board having a stylus movable in response to said voltages.

2,530,429
BOWLING BALL RETARDING DEVICE FOR BOWLING ALLEY RUNWAYS
Ernest Hedenskoog, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application March 5, 1945, Serial No. 580,999
9 Claims. (Cl. 273—47)



1. In combination with the ball return runway of a bowling alley, a ball retarder comprising a rotatable device rotating in one direction only journaled at an axis adjacent the runway and including a plurality of arms extending at equal angular intervals outwardly from said axis in position to project successively into the path of a ball as the device is rotatably adjusted about its axis, an adjustment equal to the angular interval between said arms serving to carry one arm from a position obstructing the path of the ball on the runway to a position clear of said path and to carry the next arm into ball obstructing position, a crank geared to said rotatable device at a ratio causing one rotation of said crank for each movement of the device through the angular interval between its arms, and spring means connected to said crank adapted to be stressed by the first half revolution

thereof and to release its stored energy during the final half revolution to assist the crank in said final half turn.

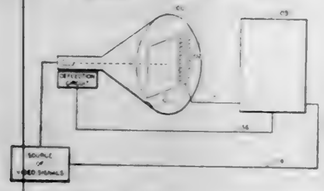
2,530,430
PROCESS FOR THE MANUFACTURE OF 4-AMINOBENZAL-THIOSEMICARBAZONE
Rudolf Hirt, Muri, near Berne, Switzerland, assignor to Dr. A. Wander A.-G., Berne, Switzerland
No Drawing. Application January 10, 1950, Serial No. 137,899. In Switzerland February 24, 1949

1 Claim. (Cl. 260—552)

A process for the production of 4-aminobenzal-thiosemicarbazone, in which 4-nitrotoluene is boiled with a solution of sulfur in aqueous alcoholic sodium hydroxide solution and the product thus obtained is treated directly with thiosemicarbazide in aqueous alcoholic solution.

2,530,431
COLOR DEVICE FOR UTILIZING CONTROL SIGNALS
Charles E. Huffman, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application January 3, 1946, Serial No. 638,799

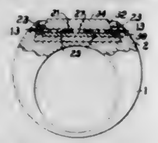
8 Claims. (Cl. 178—5.4)



1. In a television system, a cathode ray device containing a light translating area scanned successively by an electron beam in fields composed of a plurality of lines, a source of signals having a character dependent upon the scanning position of said beam, an integrating circuit connected to said source to provide integrated signals therefrom, and a beam positioning circuit connected to said integrating circuit to maintain continuous registry control of said beam in the direction of field scanning.

2,530,432
DETACHABLE SETTING
Maurice Imowicz, Paris, France
Application June 7, 1947, Serial No. 753,306
In France June 29, 1946

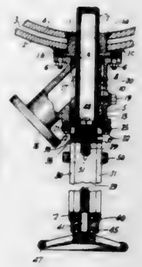
2 Claims. (Cl. 63—29)



1. An article of jewelry comprising a base portion formed in its outer face with a guideway provided with recesses in two opposite sides thereof, a plate slidably received in said guideway, an ornament secured to the outer side of said plate in spaced relation thereto, resilient locking means comprising an M-shaped spring disposed between the plate and the ornament, outwardly projecting locking snags carried by the free ends of the outer legs of said spring and adapted to snap into the recesses in the base portion, projections on the inner face of said plate arranged to keep said spring in position and means between the inner legs and the free end of each outer leg of the spring to limit the deflection of the outer spring legs toward each other within the elastic limit of the spring, the inner legs of said spring being spaced apart and formed with notches releasably interlocking with the projections.

2,530,433
VALVE ORGANIZATION
William C. Jaegle, Plainview, N. Y., assignor to Klingerit, Inc., New York, N. Y., a corporation of New York
Application March 24, 1945, Serial No. 584,575

4 Claims. (Cl. 137—21)



1. In a drainage device, a container, a valve casing adapted to be attached to said container, a tubular guideway within said casing, a plunger longitudinally movable within said guideway, a stem mounted for rotation within said guideway and held against longitudinal movement, means for rotating said stem, a screw-threaded engagement between said stem and said plunger whereby said plunger may be reciprocated, a detent on said plunger, an abutment on said valve casing adapted to coact with said detent to position said plunger flush with the inner surface of said container and means whereby said detent may be released from coaction with said abutment to permit projection of said plunger beyond the inner surface of said container.

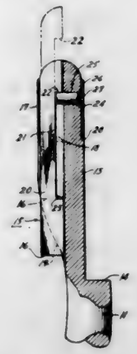
2,530,434
POWER FISH SPEAR
Fred W. Johnson, San Diego, Calif.
Application February 8, 1946, Serial No. 646,334

8 Claims. (Cl. 102—48)

1. In a power fish spear of the class described, the combination of a spearhead, a shaft in connection with said spearhead having a cartridge receiving chamber at its rear portion and a breech tube having a bore portion in which the rear end of said shaft is slidably positioned.

2,530,435
RECORD CHANGER SPINDLE
Hermann E. F. C. Lingenbrink, Hilltown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 7, 1948, Serial No. 987

3 Claims. (Cl. 274—10)

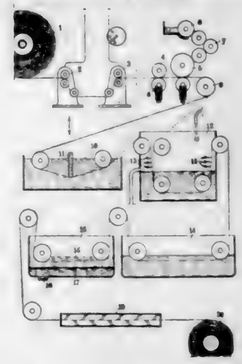


3. In a spindle for supporting a stack of records above the turntable of an automatic phonograph, a portion having a shoulder for supporting the records at their center and also having a slot with its walls in substantially perpendicular relation to said shoulder, a member slidable along the walls of said slot for cooperative relation with said shoulder and normally protruding into engagement with the next higher record to prevent lateral movement thereof when the lowermost record is moved, said member being retractable into said slot when subjected to upwardly directed forces, a pair of spaced abutments provided on said member and extending in close proximity to one wall of said slot, a stop element projecting into said slot from said one wall thereof and disposed between said abutments for contact therewith to limit the sliding movement of said member, and a sleeve embracing said portion and passing over said slot and member therein to retain and to guide the latter in the slot.

2,530,436
THERMOCHEMICAL METHOD OF BRANDING BLANK STEEL BANDS OR WIRES
Louis Roger Maleyre, Bordeaux, France
Application March 8, 1947, Serial No. 733,342
In France November 12, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 12, 1965

5 Claims. (Cl. 41—42)

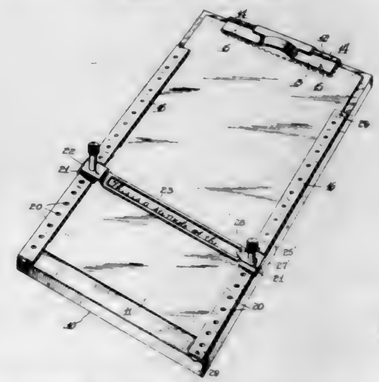
1. A method of marking in succession at regular intervals a design on a blank elongated ferrous product wound in roll form which consists in unwinding progressively said roll, guiding said product in proportion as it is unwound towards a rotary wind-up reel, and subjecting successively the consecutive portions of said roll in proportion as they are unwound to the following treatments performed at successive stations distributed along the path towards said wind-up reel: inserting successively said consecutive portions as resistances in an electric circuit so as to cause an electric current to pass successively through said consecutive portions and to heat said portions in order to modify their color by superficial oxidation, allowing the so oxidized portions to cool, applying on determined areas of said consecutive portions an acid to remove the oxidized layer, washing said consecutive portions in order to remove all acid resi-



dues, coating said portions with an oily film, and winding said portions on said wind-up reel.

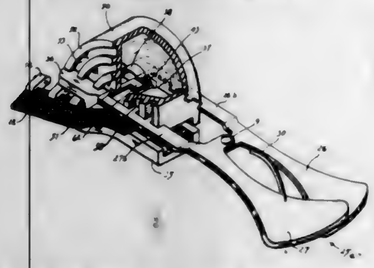
2,530,437
WRITING GUIDE FOR THE BLIND
Robert A. Marks, Queens Village, N. Y.
Application March 1, 1948, Serial No. 12,443

1 Claim. (Cl. 35—38)



A writing aid for the blind, comprising a rigid board to receive a sheet of paper, flat side tracks having spaced depressions in their top surfaces mounted along opposite sides of the board, said tracks being provided with supporting means whereby the tracks are spaced from and above the top surface of the board, a slide loosely embracing each track about its top, side, and under surfaces, a transversely disposed writing guide frame supported by and carried at one end on one of said slides and provided with a writing space arranged in a depressed portion resting directly upon the paper sheet to confine a writing instrument in the hand of a sightless person along the space in the writing guide frame, a slidable pointer for the other slide, and separate spring plunger thumb knobs carried by the attached end of the writing guide and the pointer respectively, to project into said depressions for the purpose of releasably fixing the position of the writing guide frame at any position along said side tracks, said writing guide and pointer being stepped along said slides in accordance with the spacing of the depressions.

2,530,438
SLIDE FASTENER LOCK
Henry J. Modrey, Newark, N. J.
Application December 24, 1947, Serial No. 793,629
11 Claims. (Cl. 70—68)

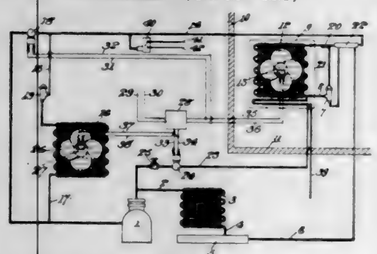


1. A slider lock for a slide fastener comprising a locking member capable of locking the slider in one position and of being moved into a release position, a cover member provided on said slider and constructed to conceal said locking member, said cover member having a ward portion including grooves and ribs and an opening providing access to the locking member.

2,530,439
PLASTICIZED HYDROPHILIC COLLOIDS
Henry A. Molteni, Boonton, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 19, 1945, Serial No. 606,029
6 Claims. (Cl. 106—131)

1. A hydrophilic colloid taken from the class consisting of the protein and carbohydrate colloids, having incorporated therein a free fatty acid having at least 6 carbon atoms chlorinated with at least 2 atoms of chlorine in an amount sufficient to plasticize said colloid.

2,530,440
DEFROSTING SYSTEM FOR REFRIGERATING APPARATUS
Otto J. Nussbaum, Trenton, N. J., assignor to Kramer Trenton Company, Trenton, N. J., a corporation of New Jersey
Application July 26, 1947, Serial No. 763,982
13 Claims. (Cl. 62—116)



1. Apparatus of the character described comprising, a compressor, a condenser, a refrigeration chamber, an evaporator located within said chamber, a second evaporator located without said chamber, conduits interconnecting the two evaporators and the compressor, pressure reducing means in the conduit which connects the two evaporators, means for controlling said conduits to permit fluid to flow from the outlet of said first evaporator either directly to the inlet of the compressor or by a course passing through the pressure reducing means and said second evaporator, and a hot gas line connecting the outlet of the compressor with the inlet of said first evaporator without passing through the condenser.

2,530,441
LEATHER SUBSTITUTE
Henry A. Reinhardt and Wayne T. Harrison, Longmeadow, Mass., assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts
Application August 3, 1945, Serial No. 608,652
2 Claims. (Cl. 154—46)

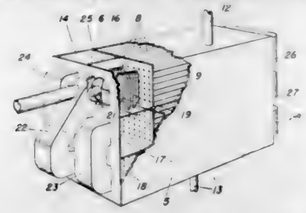
2. A sheet material comprising a homogeneous continuous body of a compressed thermoplastic vinyl chloride-vinyl acetate resin and a plasticizer therefor, a sheet of an open-weave woven cloth embedded within said continuous body of resin, and a mass of individual reinforcing unwoven crimped rayon staple fibers 2–6 inches long and 10 to 35 deniers in diameter extending through the openings thereof and randomly disposed vertically and horizontally and individually embedded in and permeating said continuous body of resin at both sides of the cloth, said resin constituting the major part by weight of said sheet, and a pigment distributed through said continuous body of resin.

2,530,442
ELECTRIC BATH
Roger Rouat, Paris, France
Application October 24, 1945, Serial No. 624,313
In France August 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 31, 1963
5 Claims. (Cl. 128—373)

1. In an electric bath having electric radiating means, a front half-cabinet for treating the upper part of the body, a rear half cabinet having electric radiating means and means for connecting both half cabinets end to end, electric radiators being suitable for treating the entire body and radiators mounted in the rear half-cabinet above the legs for treating the legs, said rear half-cabinet being of a size and shape in relation to said front half-cabinet to be stored within said front half to save space in shipping and storage.

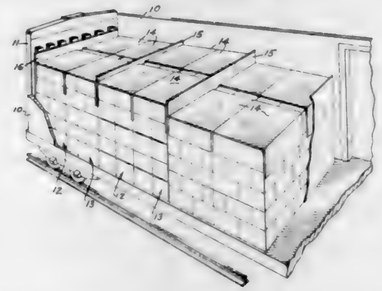
2,530,443
AIR CONDITIONING COOLING SYSTEM FOR STEAM CONDENSERS
James S. Walker, San Francisco, Calif.
Application September 17, 1949, Serial No. 116,279
1 Claim. (Cl. 62—125)

A condenser comprising a housing having a central section and spaced end sections, tubes positioned in said central section and in communication with said end sections, said end sections being formed into cells, conduits connecting said cells, whereby air moving through said cells and said tubes will be progressively circu-



lated through all of said tubes and said cells, and refrigerating coils positioned in one of said cells to chill said air to effect the cooling of said tubes.

2,530,444
METHOD AND APPARATUS FOR LOADING FREIGHT CARS
Alfred E. Woods, Larkspur, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application October 16, 1946, Serial No. 703,499
6 Claims. (Cl. 105—367)



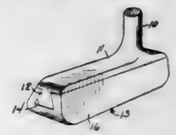
1. The method of loading cars and the like with cased merchandise which comprises arranging the cases in groups to form uniformly shaped blocks, covering each block separately with sheet like material extending over its top and downwardly adjacent its sides and securing together the covering of adjacent blocks at its downwardly extending portions.

2,530,445
ELECTRIC AIR CIRCULATING OIL WELL HEATER
John S. Young, Greensburg, Pa.
Application February 17, 1950, Serial No. 144,697
2 Claims. (Cl. 219—33)

1. A well heating apparatus of the class described comprising the combination with the pump tubing of the well, of an elongated cylindrical casing, a top plug having a screw thread connection with the upper end of said casing, a bottom plug having a screw thread connection with the lower end of said casing, a partition secured in said casing and providing a comparatively large air chamber below said partition and a smaller compartment above said partition, the lower end of the pump tubing having a screw thread engagement in each of said plugs and in said partition for supporting the apparatus in the well, an air supply pipe extending into said air chamber and having the outlet opening thereof disposed at the lower end of said air chamber, an air compressor connected with said air supply pipe and being operable for forcing air into said air chamber through said air supply pipe, an air discharge pipe mounted in said bottom plug and extending into said air chamber and having the inlet opening thereof disposed at the upper end of said air chamber, the lower end portion of said discharge pipe projecting from the lower end of said casing and having the outlet opening thereof disposed at the lower end of said projecting lower

end portion, a plurality of electrically operated heating elements mounted in said air chamber, an electric conductor having the lower end thereof secured in said top plug, a plurality of leads connected with the lower end of said conductor and being housed in said compartment and being connected with respective heating elements, an electric generator connected with said conductor and being operable for energizing said heating elements for heating the air on the passage of the latter through said air chamber, and a conically-shaped hood secured to the upper end of said casing.

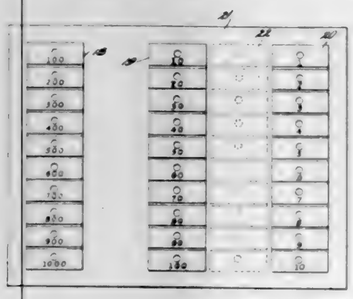
2,530,446
COMBINATION GOLF CLUB
John A. Beardsley, Detroit, Mich.
Application May 8, 1947, Serial No. 746,731
1 Claim. (Cl. 273—79)



In a reversible golf club head, the combination which comprises a shaft having a substantially right angularly disposed base with a longitudinally disposed tongue having outwardly diverging side surfaces depending therefrom on the lower end thereof, a solid massive head extended the full length of the base and having a longitudinally disposed groove with inwardly converging sides positioned and secured in position on the said base of the shaft by the coacting tongue and groove of the base and head, respectively, the under surface of the tongue of the base having a recess therein and said head having an opening therein in registering relation with the recess of the base, a ball mounted in the opening

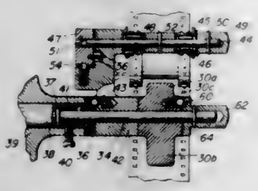
of the head and positioned to coact with the recess of the base for retaining the head on the base, and a spring in the said opening in the head for urging the ball into the said recess of the tongue of the base.

2,530,447
ABACUS
Ida E. Birdsall, Manasquan, N. J.
Application February 5, 1948, Serial No. 6,399
1 Claim. (Cl. 35—33)



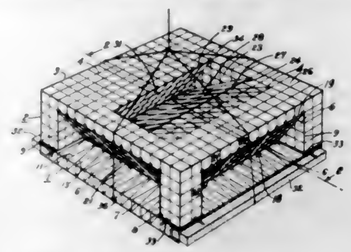
A calculating device comprising a base, parallel elongated elements fixedly located on said base, said elements having transverse slots dividing the surface of each element into a plurality of fields each having a hole adjacent one of said slots, pegs adapted to fit in said holes, slips of sheet material adapted to fit in said slots, and a removable insertible block proportioned to fit between two of said parallel elements, said insertion block having a number of slots and holes spaced equally with the slots and holes of the adjacent parallel elements.

2,530,448
PAD ROLLER DEVICE FOR MOTION-PICTURE PROJECTING MACHINES
Ewald Boecking, Great Kills, N. Y., assignor to Manufacturers Machine & Tool Co., Inc., Mount Vernon, N. Y., a corporation of New York
Application April 19, 1946, Serial No. 663,429
9 Claims. (Cl. 271—2.3)



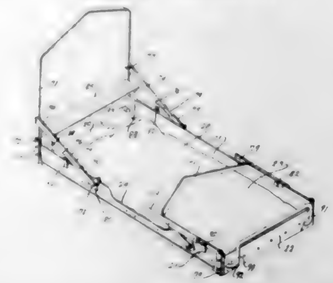
1. In a motion picture projector, a film-advancing sprocket, a pad roller for engaging said sprocket, a pivotally mounted arm for supporting said pad roller in a film and sprocket-engaging position, an auxiliary roller for holding film on said sprocket when said pad roller is spaced therefrom, and means pivotally supporting said auxiliary roller on the pad roller arm on an axis parallel to the sprocket axis, said auxiliary roller being adapted to have movement toward and from the sprocket independently of the pad roller.

2,530,449
CRAB TRAP
Ean Lee Bush, San Francisco, Calif.
Application October 18, 1948, Serial No. 55,063
4 Claims. (Cl. 43—102)



1. A trap of the character described comprising a lower section having a bottom and sides formed from spaced wires, an upper section removably fitting over the lower section and having a top and sides formed from spaced wires and complementing said lower section into a trap box, complemental frame members at the meeting edges of said sections defining inlet openings for the animals to be trapped, a generally horizontal platform fixed in said lower section and extended inwardly from the edge of each opening at the lower section, a swingable gate extended downwardly from the top edge of each opening in said upper section and into abutting relation with the inner edges of the respective platforms and weights on opposite sides of said lower section in the form of steps below the respective inlet openings.

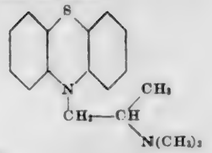
2,530,450
CAR TOP SLEEPING COMPARTMENT
Don T. Cast, Columbus, Ohio
Application November 24, 1947, Serial No. 787,825
3 Claims. (Cl. 135—4)



1. For use with a car top demountable sleeping compartment comprising a box, upstanding flanges at the four corners thereof, bows pivotally carried by said upstanding flanges at opposite ends of said box, face plates carried by the sides of said box, upper knee members pivotally carried by said bows at a point removed from the upstanding flanges, lower knee members one end of which are pivoted to said face plates and the other end of which are pivoted to said upper knee members, said upper knee member extending beyond the pivot between the said upper knee members and lower knee members forming handles for raising and lowering said bows, and a flexible cover carried by said bows.

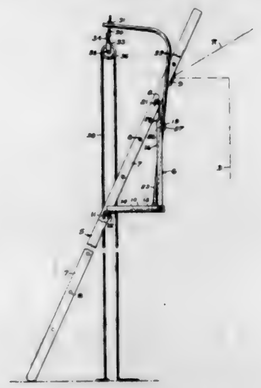
2,530,451
PHENOTHIAZINES
Paul Charpentier, Choisy-le-Roi, France, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a corporation of France
No Drawing. Application November 28, 1947, Serial No. 788,649. In France January 24, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires January 24, 1966
5 Claims. (Cl. 260—243)

1. The new compounds of the class consisting of N-(2'-dimethylamino-2'-methylethyl) phenothiazine of the formula:



and its salts.

2,530,452
HOIST BRACKET
William A. Duffey, Paterson, N. J.
Application January 4, 1949, Serial No. 69,133
1 Claim. (Cl. 212—61)



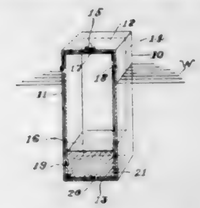
In a hoisting attachment for ladders, a bracket structure having vertically spaced apart sets of ladder round engaging jaws for supporting said bracket beneath an inclined ladder, an upwardly extending tubular socket on said bracket structure, a collar secured to said bracket structure above and in spaced axial alinement with said socket, a vertical standard with its lower end received in said socket and passing upwardly through said collar, a boom arm on said standard extending laterally therefrom to project between adjacent ladder rounds, and a tackle block suspended from the outer end of said boom arm having a cable sheave and cable for lifting various objects toward the upper end of said ladder.

2,530,453
APPAREL MONOGRAM ATTACHMENT
Manny Eagle, Brooklyn, N. Y.
Application December 17, 1948, Serial No. 65,810
3 Claims. (Cl. 2—247)

3. A garment provided with a pocket having an inner layer of material at the inner side of said pocket, a concealed fastening member carried by said inner layer of material and concealed by the outer side of said pocket, and an attachment for said pocket comprising an attaching portion provided with a fastening member connected to said concealed fastening member, said

attaching portion being concealed within said pocket as secured by said fastening members, and said attachment including an outward flap portion for said pocket having an ornamental design thereon.

2,530,454
PYROTECHNIC DEVICE
Louis F. Fieser, Belmont, Mass., and William F. Van Loenen, Los Altos, Calif.; said Fieser assignor to the United States of America, and said Van Loenen assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
Application January 4, 1946, Serial No. 639,068
13 Claims. (Cl. 102—7)

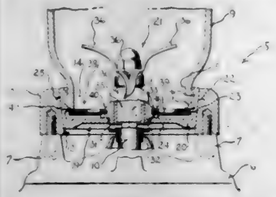


1. A floatable incendiary comprising, a container provided with two spaced apart openings, one of said openings being adapted to admit water when the container is afloat and being disposed below water level, the other of said openings being adapted to eject a flame across the surface of the water and disposed in a side wall and above the water level when said container is afloat, pyrophoric magnesium obtained by shock-chilling magnesium-containing vapors and stabilized toward air disposed within the container for reaction with the admitted water, and buoyancy means associated with said container.

2,530,455
MIXING DEVICE
Fritz Victor Forss, Racine, Wis., assignor to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application April 23, 1948, Serial No. 22,889
4 Claims. (Cl. 259—108)

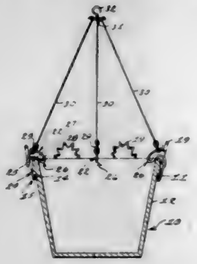
1. In a mixing device having a mixing vessel provided with an opening leading through an externally threaded neck, a combined agitator and closure for said vessel comprising the combination of: a cup-shaped cover having an annular side wall provided with screw threads on its interior for cooperation with the threads on

the neck of the vessel, and having an end wall; an agitator assembly including an elongated bearing element, a shaft rotatably carried by said bearing element and having agitator blades thereon adjacent to one end of the bearing element and a driving socket adjacent to the opposite end of the bearing element, and cooperating means on the end wall of the cover and the bearing element for readily detachably mount-



ing said agitator assembly on the inside of the cover with the agitator shaft coaxial with said threads on the cover and with the driving socket of the agitator shaft accessible from the exterior of the cover through an aperture in the end wall of the cover; and a sealing member carried by said bearing element for engagement with the rim on said neck of the mixing vessel to seal the joint between the cover and said neck upon tightening of the cover on the neck.

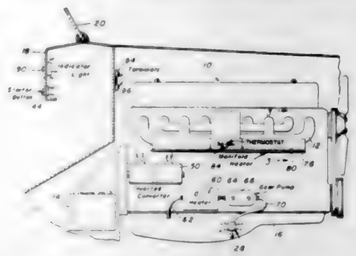
2,530,456
COLLAR FOR HANGING FLOWER POTS
Rosie M. Fracchia, Ukiah, Calif.
Application June 21, 1949, Serial No. 100,476
4 Claims. (Cl. 248—318)



1. A collar for a hanging flower pot having a marginal bead about the upper edge thereof comprising an elongated bendable collar member, a loop on one end of said member, a hook on the other end of said member releasably engageable in said loop for releasably engaging said member about said pot below the marginal bead thereof, a plurality of looped bill members including a lower arcuate run engageable over the upper edge of said flower pot for supporting the collar thereon, and a reverted upper run spaced above said lower run, and a plurality of flower pot supporting members engaging said upper run of said bill for hanging the flower pot from a fixed support.

2,530,457
OIL MANIFOLD WARMER
Clarence T. Freed, Eldora, Iowa
Application August 10, 1949, Serial No. 109,513
4 Claims. (Cl. 219—38)

1. In a vehicle having a source of current a circuit with a starter switch, and a crankcase, an attachment for heating the oil in the crankcase comprising a heater with a pump connected therewith and the crankcase, a motor drivingly connected with said pump, means including electrical conductors connecting said heater



and said motor with the current source, and means including a thermostatic switch responsive to crankcase oil heat selectively opening the circuit with the motor and heater while closing the circuit having the starter switch therein.

2,530,458
PRODUCTION OF COMPLEX INORGANIC COMPOUNDS AND APPLICATIONS THEREOF
Hans Rudolph Frisch, Caterham, England
No Drawing. Application March 18, 1947, Serial No. 735,545. In Great Britain August 19, 1946
4 Claims. (Cl. 106—15)

1. A water and fire resistant coating composition capable on drying, of forming a hard glossy film resembling an organic polymer, and consisting of a water insoluble transparent liquid and inorganic complex resulting from mixing together between 25 and 125 parts of a compound selected from the class consisting of the tertiary zinc orthophosphates and the tertiary zinc ortho arsenates and 100 parts of hydrous ammonia of 30% to 35% concentration.

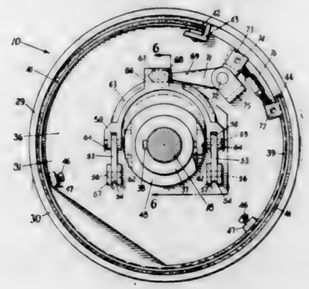
2,530,459
CARBON SUPPLYING COMPOSITION
Stanley A. Gilbert, Red Bank, N. J., and Alfred H. Stanley, Lykens, Pa., assignors, by mesne assignments, to The Hanna Furnace Corporation, Detroit, Mich., a corporation of New York
No Drawing. Application August 26, 1947, Serial No. 770,762
5 Claims. (Cl. 75—48)

1. A solid carbon-supplying composition suitable for addition to the cupola in the manufacture of cast iron consisting essentially of residual carbon coke particles, hydrocarbon black particles, and a solidified binder therefor, said hydrocarbon black particles being present in an amount between about 5% and about 20%, and said binder being present in an amount between about 6% and about 18%, based on the combined weight of said three ingredients, and said composition being free of material substantially inhibiting absorption of carbon from the composition by molten iron in the cupola.

2,530,460
FRICTION CLUTCH UNIT
John L. Grundon, Des Moines, Iowa
Application November 26, 1947, Serial No. 788,258
2 Claims. (Cl. 74—99)

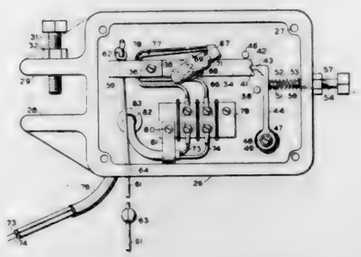
1. A mechanism for actuating an operating member comprising, a rotatable collar member,

means guiding said collar member for linear axial movement, a first pivoted lever supported for pivotal movement axially of said collar member, a second guide means movably connected with said collar member and said first lever means to retain said lever means against movement transversely of the pivotal path of movement thereof, a second lever pivotally supported



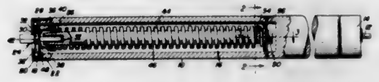
intermediate its ends for pivotal movement in a path transversely of said collar member, means movably connecting one end of said second lever means with said operating member, and a lost-motion connection between the opposite end of said second lever means and the free end of said first lever means, with said operating member being actuated in response to the axial movement of said collar member.

2,530,461
SAFETY SWITCH
Russell A. Gund, Tulsa, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 31, 1948, Serial No. 46,997
5 Claims. (Cl. 200—52)



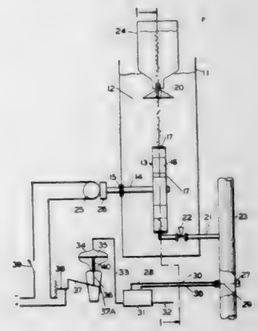
2. A switch comprising, in combination, a housing, a unitary weight, switch actuating and reset member pivotally mounted on said housing, said member including a weighted portion at one side of said pivot having a notch formed in the free end thereof and a reset portion at the other side of said pivot, a stop limiting the pivotal movement of said member, a pull cord secured to said reset portion for rotating said member into engagement with said stop, a latch pivotally mounted on said housing, a spring biasing said latch into engagement with the notch in said weight portion for normally holding said member adjacent said stop, said member being disengageable from said latch upon acceleration of said housing of a predetermined magnitude due to the inertia of said weighted portion, and a switch carried by said member, the switch being actuated when the weight portion is displaced from said stop upon said predetermined acceleration.

2,530,462
SHADE ROLLER
Walter S. Gwin, Ogdensburg, N. Y.
Application July 5, 1949, Serial No. 103,156
7 Claims. (Cl. 160—313)



2. In a shade support which includes a roller having a bore in one end with an end plate for said bore fixed to said roller, a trunnion secured at one end of said roller and a shaft passed through said plate, and a ratchet and dog locking device operatively connected with said shaft and said plate, the improvement which comprises; a spring disposed in said bore, a spindle concentric with said spring having said spring secured thereto, and means floatingly securing said spindle to said roller.

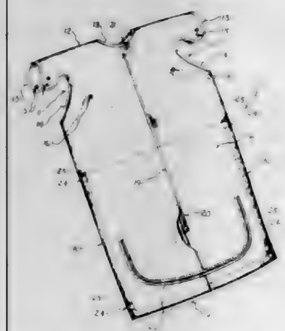
2,530,463
CONTINUOUS SAMPLE COLLECTING DEVICE
Frederick T. Hall, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 12, 1945, Serial No. 593,466
4 Claims. (Cl. 73—421.5)



4. A continuous composite representative gas sample collecting device for collecting a sample of gas from a gas line in which the rate of flow varies during the time of collecting said sample and from which line substantially equal volumes of the sample are to be taken from substantially equal divisional volumes of the total gas flowing in said gas line during the taking of the sample, comprising in combination a tank capable of retaining a liquid therein; a conduit for constantly conveying a portion of gas extending from said gas line to a point within the lower portion of said tank; gas sampling means having a pocket therein, said means being positioned above said conduit; a gas sample collecting container positioned above said gas sampling means; and actuating means for moving said pocket successively

into gas collecting position and then into a position where gas released from said pocket rises directly into said gas sample collecting container operatively connected to said gas sampling means, said actuating means adapted so as to move said pocket at a rate substantially directly proportionate to the rate of flow in said gas line.

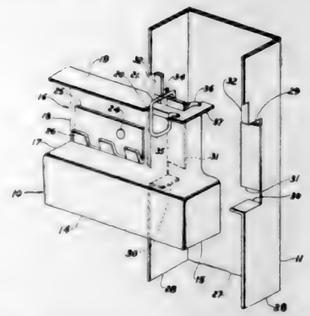
2,530,464
SLEEPING BAG FOR INFANTS
Maud E. Haman, Milwaukee, Wis.
Application May 7, 1948, Serial No. 25,577
2 Claims. (Cl. 2—69.5)



1. An infant's sleeping bag of the type comprising a substantially rectangular envelope of a size and shape to contain an infant, the top, bottom and side edges of the front and rear surfaces of said envelope being joined except at an aperture at the upper end thereof through which the infant's head is adapted to project, said envelope having a substantially medial slit in its front surface extending downwardly from said aperture to enable an infant to be placed therein, said garment being characterized by: sleeve forming flaps defined by substantially arcuate cutouts at the side edges of the envelope spaced below the upper edge thereof, the front and rear surfaces of the envelope being permanently joined along the lower edges of each of said cutouts and being unjoined thereabove so that the sleeve forming flaps may be folded down over the front and rear surfaces to close the sleeve apertures or connected to each other to form sleeves; and cooperating fastening means on the flaps and on the front and rear surfaces of the envelope, spaced a substantial distance inwardly of the joined lower edges of said arcuate cutouts for holding the flaps in either of said two positions.

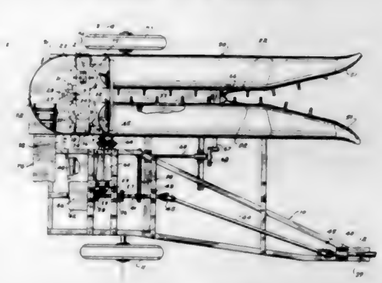
2,530,465
WALL AND WALL PANEL
Cyril R. B. Harding, Grosse Isle, Mich., assignor to National Steel Corporation, a corporation of Delaware
Application March 26, 1945, Serial No. 584,749
13 Claims. (Cl. 189—86)

1. A wall comprising a plurality of panels assembled with their adjacent horizontal and vertical edges forming horizontally and vertically aligned non-watertight seams therebetween; a plurality of vertical members supporting said panels and each member defining a vertical drain channel in back of the corresponding vertically aligned seams; a depressed channel shaped portion extending along the upper edge of each panel and integral therewith and defining a horizintal channel in back of and above the corresponding horizontal seam; means in said channel shaped portion securing thereto the



lower edge portion of an adjacent upper panel; and means fastening the panels to the corresponding vertical members.

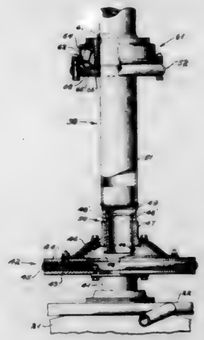
2,530,466
ENSILAGE CUTTER
Clarence J. Heimark, Clarkfield, Minn.
Application February 26, 1948, Serial No. 11,189
2 Claims. (Cl. 146—98)



1. Cutting mechanism of the character described, for cutting corn stalks and similar elongated crop materials, comprising a pair of elongated oppositely rotating feed rolls spaced apart to accommodate the corn stalks lengthwise, non-rotating cutting disks positioned in cooperating position between the rolls and spaced apart to slice the stalks into uniform lengths for use as ensilage, the said rolls both having peripheral grooves cooperating with a cutting action with opposite edge portions of the disks, and the rolls also having cushion-like surfaces with longitudinal serrations between the grooves to grip and feed the stalks.

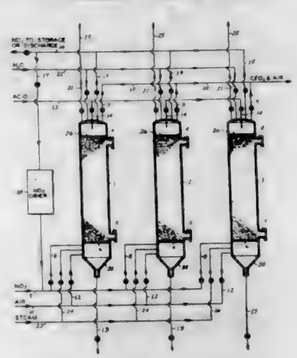
2,530,467
VIBRATION DAMPENING DRIVE SYSTEM FOR AIRCRAFT
William E. Hunt, Brooklyn, Conn.
Application February 11, 1947, Serial No. 727,749
11 Claims. (Cl. 64—1)

1. A vibration dampening drive mechanism comprising a rotary drive shaft including inner and outer portions and a telescoping coupling therebetween, a thrust bearing concentrically enclosing said outer shaft portion and rigidly supported with respect to said inner shaft portion, and a yielding rubber bushing between said



thrust bearing and said outer shaft portion and bonded to both.

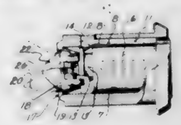
2,530,468
PROCESS FOR GENERATION OF CHLORINE DIOXIDE
Willis S. Hutchinson, St. Paul, Minn., assignor to Mathieson Chemical Corporation, a corporation of Virginia
Application October 21, 1947, Serial No. 781,157
6 Claims. (Cl. 23—152)



1. In the process for the generation of chlorine dioxide by reacting nitrogen peroxide with a chlorite of a metal of the class consisting of the alkali and alkaline earth metals resulting in the formation of the corresponding nitrite, the steps of reacting a relatively non-volatile acid with the nitrite whereby a gas mixture of NO_2 and NO is evolved, oxidizing the NO of the mixture to NO_2 by admixing excess air therewith and reacting the NO_2 with further chlorite to generate additional chlorine dioxide.

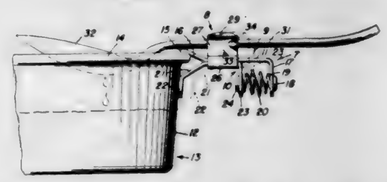
2,530,469
CYLINDER LOCK OPERATING CONNECTION
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application December 10, 1947, Serial No. 790,881
8 Claims. (Cl. 70—379)

1. In a lock of the type having a bored casing provided with a lock cylinder rotatable in the front portion of the bore, and having an operating shaft projecting from the rear of the bore to provide for actuation of latch mechanism associated with the lock, a universal joint connection between the operating shaft and the lock cylinder comprising: a coupling element confined in the rear portion of the casing bore between a part on the casing and the inner end of the lock cylinder and guided thereby for rotation in the casing bore and for rocking motion of the coupling element on an axis normal to the axis of the bore; a driving connection between the lock cylinder and the coupling element



whereby rotation of the cylinder is transmitted to the coupling element without interfering with rocking motion of the coupling element in the casing bore; and a connection between the operating shaft and the coupling element constraining the shaft to rotation with the coupling element and lock cylinder but permitting swinging motion of the shaft about an axis normal to the rocking axis of the coupling element and relative to the coupling element as well as pivotal motion of the connected shaft and coupling element about the rocking axis of the latter.

2,530,470
SPOON HOLDER ATTACHMENT FOR CULINARY VESSELS
Wilmer F. Kenly, York, Pa.
Application April 13, 1949, Serial No. 87,248
3 Claims. (Cl. 65—65)

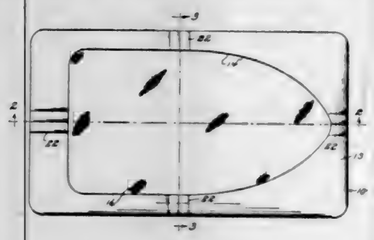


1. A spoon holding attachment of the class shown and described comprising an inverted U-shaped unit including a bight portion and lateral end portions, one end portion forming a jaw and the other end portion a finger-piece, a second inverted U-shaped unit mounted within the confines of the first-named unit and having a bight portion in slidable contact with the first-named bight portion, one lateral end portion forming a jaw opposed to the first-named jaw, and a second lateral end portion forming a finger-piece opposed to the first-named finger-piece, said finger-pieces having indentations forming spring cups, a spring interposed between the finger-pieces and having its ends seated in said cups, and a spoon retaining clip mounted on and embracing the stated bight portions of said V-shaped units.

2,530,471
IRON REST
Le Roy C. Kopisch, Hartford, Ill.
Application June 8, 1948, Serial No. 31,652
3 Claims. (Cl. 248—117.1)

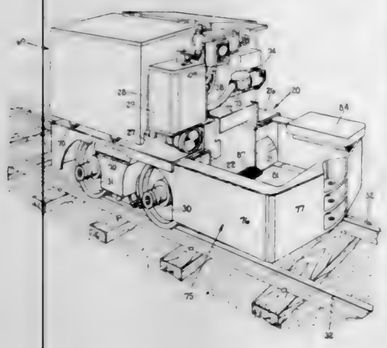
1. An iron rest comprising a case having a bottom and upstanding flange portions, a cover hav-

ing a large opening therein adapted to receive the bottom of an electric iron and having means engageable with the upwardly extending flange of the case to be secured to the same, and a pad



of insulating material disposed within the case and adapted to receive the iron bottom, and said cover having a flange depending about the opening and adapted to engage with the pad whereby to fix the pad securely within the case.

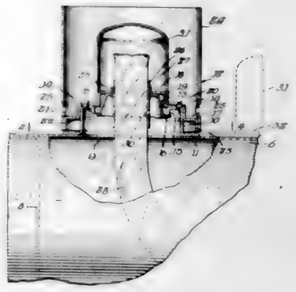
2,530,472
TRAMMING LOCOMOTIVE
Arthur L. Lee, Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio
Application July 21, 1945, Serial No. 606,327
15 Claims. (Cl. 105—26)



1. A tramming locomotive including a main frame, power driven traction means therefor, an operator's platform at one end of said main frame, means providing for slidable adjustment of said operator's platform to reduce the effective length of said locomotive, and operating mechanism for said locomotive including an operating lever extending from said main frame to said operator's platform, said operating lever including a rear portion which may be swung upwardly to provide for maximum adjustment of said operator's platform as aforesaid.

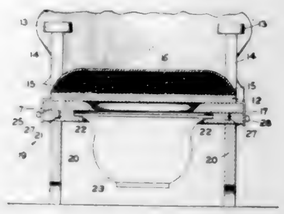
2,530,473
SWITCH HEATER
William A. Lebus, Chicago, Ill., assignor to The Protectoseal Company, Chicago, Ill., a corporation of Illinois
Application October 22, 1948, Serial No. 55,877
2 Claims. (Cl. 158—94)

1. In a liquid fuel burning heater, a fuel tank having an opening in its wall, a stationary, tubular member rigidly secured to said tank and encircling the opening therein, the outer end of said member terminating in an internal flange, a cap of greater diameter than said member having an inner, an outer, and an intermediate offset therein to form a concentric stepped structure, the intermediate offset of which is of a size to set on said tubular member, a tubular chimney connected at its lower end to and carried by said outer offset, said chimney having a plu-



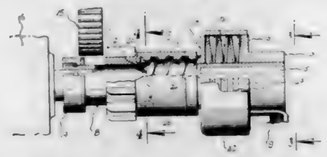
rality of openings therein adjacent said lower end for the passage of air therethrough, a wick tube extending through and carried by the central portion of said cap, a wick member positioned in said tank and extending through said tube, a locking member rigidly carried by said cap and extending inwardly therefrom into said tubular member, and co-operating means on said locking member and the flange on said tubular member for detachably locking said cap to said tubular member.

2,530,474
CHAIR CONSTRUCTION
Keene Lutes, Lexington, Ky.
Application January 22, 1946, Serial No. 642,734
3 Claims. (Cl. 155—31)



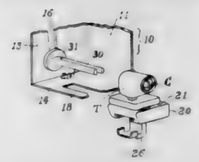
2. A chair construction, including a support unit having legs and a top board, said board having a rearwardly open cut-out therein, a flange surrounding said cut-out and adapted to support a bowl, a seat unit having a seat board fitting on said top board, there being a hole in said seat board, the hole of said board being in alignment with said cut-out when the seat board is positioned on said top board, a cushion adapted to be arranged on said seat board and covering the hole in the latter, a securing element on each side of said top board, a strap on each side of said seat board and carried by the latter, and means on each of said straps and engageable with the securing element adjacent thereto for connecting the straps to said elements.

2,530,475
ENGINE STARTER
Alain M. Madlé, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application May 10, 1945, Serial No. 593,023
2 Claims. (Cl. 74—7)



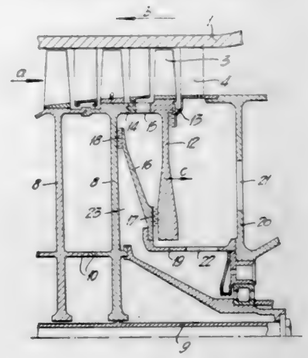
1. In an engine starter of the type having a pinion propelled along a power shaft into and out of mesh with an engine gear by relative rotation between screw threaded parts on the pinion and an actuator for the pinion rotatable and slidable along the power shaft, a driving connection between the power shaft and actuator, comprising: a collar fixed on the power shaft; axially spaced abutments on the actuator and collar; compression spring means reacting between said abutments for holding the actuator and collar axially spaced apart and for yieldingly resisting axial movement of the actuator toward the collar to thereby provide cushioning against axial thrust of the actuator during operation of the starter; a skirt on one of said abutments encircling said spring means and the other abutment; a lug on said other abutment engaged in a longitudinal slot in the skirt so as to provide a splined driving connection between the collar and actuator permitting a degree of axial movement of the actuator relative to the collar; and a stop on the power shaft at the side of the actuator remote from said spring means engaged by the actuator to limit axial motion thereof under the influence of said spring means, said stop comprising a spring ring sprung into an annular groove in the power shaft.

2,530,476
KEY WINDER AND CASING FOR DISPENSING CONTENTS OF COLLAPSIBLE TUBES
Harry C. Morris and Jean Jacques, Philadelphia, Pa.
Application September 4, 1948, Serial No. 47,772
5 Claims. (Cl. 222—100)



1. In a paste dispenser, a support adapted to be secured to an upright surface and having a back, a side with a slot therein, and a bottom with a laterally open notch therein; a holder with a tapped vertical axis bore removably engaged in the notch in the bottom of the support and adapted to receive the threaded neck of an inverted collapsible paste tube; a wrapping key with a manipulating head, and with a shank passing through the slot in the side of the support and having a longitudinal slit open in the direction of the notch in the support bottom for engaging the straight crosswise bottom sealing retroversion of the tube.

2,530,477
MEANS FOR BALANCING THE AXIAL THRUST OF ELASTIC FLUID COMPRESSORS AND TURBINES OF THE AXIAL FLOW TYPE
Frans Eric Ossian Östmar, Finspong, Sweden
Application July 13, 1949, Serial No. 104,562
In Sweden September 22, 1948
8 Claims. (Cl. 230—122)



1. In a device for balancing the axial thrust in elastic fluid machines of the axial flow type having a frame, a rotor and blading carried by said rotor, the combination of an annular thrust disc subjected to the pressure prevailing in the machine, means for rigidly connecting the outer circumference of said annular thrust disc to the outgoing end of the rotor of the machine adjacent the blading thereof, so that the thrust disc extends inwardly in a freehung relation to the rotor, a communication being provided between the space on one side of the thrust disc and a low pressure as compared with the pressure existing in the machine, an annular balancing disc for shielding off the space on the other side of the thrust disc from said low pressure, a rigid connection being provided between said balancing disc and the frame of the machine, said balancing disc bridging the space between the thrust disc and an adjacent member of the rotor, sealing means being provided between the inner periphery of the balancing disc and the thrust disc and other sealing means being provided between the outer periphery of the balancing disc and said rotor member for tightly closing the space between the balancing disc and said other side of the thrust disc against said low pressure a communication being provided between an inner point of pressure of the blading of the machine for subjecting the surface of the thrust disc exposed to said space to the pressure prevailing in the machine, the space between the balancing disc and said rotor member being in communication with said low pressure for preventing the pressure derived from inside the machine from being balanced by a corresponding pressure on said rotor member.

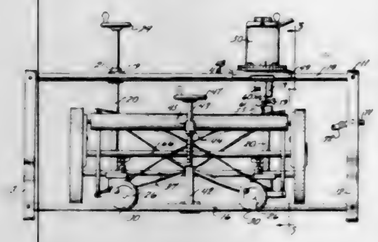
2,530,478
NURSING BOTTLE HOLDER
William J. Parent, Salem, Mass.
Application November 26, 1946, Serial No. 712,454
3 Claims. (Cl. 248—103)

1. A nursing bottle holder of the character described comprising, a pair of plates, means adapting said plates to be horizontally adjusted, hooked

ends on said plates adapting them to be removably secured to the side of a crib or the like, an aperture in one of said plates with an outwardly extending boss thereabout, a U-shaped bracket secured to the back of said plate behind said aperture, a thumb screw carried by said bracket directly disposed toward said aperture, an elongated arm, a universal ball carried by one end of said arm, said ball positioned behind said plate

with the arm extending outwardly through said aperture and said ball selectively positioned and secured behind said plate by said thumb screw, a circular divided spring provided with a bottle gripping material, a shaft carried by said spring with a universal ball carried by the extended end of said shaft, and a universal socket provided at the second end of said arm adapted to swivelly mount said spring carried ball therein for the purpose described.

2,530,479
MATCHED EDGE LAWN MOWER GRINDER
Herman Pater, Waltham, and Fred Bruckmeier, Austin, Minn.
Application December 17, 1948, Serial No. 65,866
3 Claims. (Cl. 51—56)



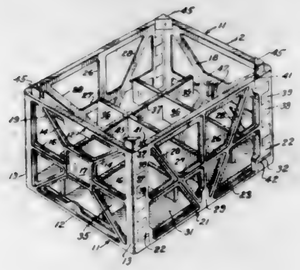
1. A lawn mower sharpening machine comprising a pair of spaced upstanding frame sides, a pair of guide bars secured to the tops of the frame sides and extending between the frame sides and being substantially parallel and horizontal, the guide bars being disposed at substantially the same elevation, a pivot bar arranged adjacent to the tops of the frame sides and secured thereto and parallel to the guide bars and extending parallel to the guide bars and spaced therefrom, a pair of generally vertical screw shafts pivotally and longitudinally slidably mounted upon the pivot bar and extending near the bottoms of the frame sides, forward and rear bars extending between the bottoms of the frame sides and secured thereto and disposed horizontally at substantially the same elevation, a pair of screw shafts pivotally and longitudinally slidably mounted upon said forward bar and extending generally at right angles to the first-named pair of screw shafts and having their rear ends crossing the first-named pair of screw shafts and terminating adjacent to the rear ends of the frame sides, nuts mounted upon the first and second-named pairs of screw shafts and being pivotally connected, clamp means secured to the first-named pair of screw shafts and extending forwardly thereof, an intermediate substantially horizontal pivot bar arranged between said forward and rear bars and at substantially the elevation thereof, means connecting said intermediate bar and the second-named screw shafts so that the intermediate bar is bodily mounted upon the second-named screw shafts, an upstanding arm arranged between the second-named pair of screw shafts and having its bottom end pivotally mounted upon the intermediate bar, an axially shiftable adjusting screw mounted within the upstanding arm and projecting above the same, a cradle bracket carried by said adjusting screw for movement therewith and spaced forwardly of and between the clamp means, a motor longitudinally slidably mounted upon the guide bars and including a depending vertical armature shaft, a grinding wheel secured to the bottom of the armature shaft and disposed below the guide bars and forwardly of the first-named pair of screw shafts, and guide means mounted upon the motor and projecting below the same for engagement with the lawn mower reel to position such reel with respect to the grinding wheel.

2,530,480
THERAPEUTIC PREPARATIONS FOR INTRAMUSCULAR AND SUBCUTANEOUS INJECTION AND METHODS OF MAKING THE SAME
George Philo Pitkin, deceased, late of Bergenfield, N. J., by Winifred M. Pitkin, administratrix, Bergenfield, N. J., assignor, by mesne assignments, of one-half to The Jacques Loewe Research Foundation, Inc., New York, N. Y., a corporation of New York
No Drawing. Application January 21, 1944, Serial No. 519,206
8 Claims. (Cl. 167—82)

8. The method of making a therapeutic preparation for intramuscular or subcutaneous injection in the treatment of a patient, which comprises dissolving gelatin in sterile warmed distilled water, then adding to the gelatin solution dextrose and acetic acid, then diluting, aging and testing the solution, there being 12 to 30 parts gelatin, 5 to 12 parts dextrose, .3 to 1.5 parts acetic acid in said solution, then dissolving in the solution when at a temperature approximately 100° F. a water soluble injectible therapeutic agent and diluting the solution to have a pH compatible with body tissue and containing 12% to 30% gelatin, 5% to 12% dextrose and .3% to 1.5% acetic acid plus the therapeutic agent, and placing the preparation in sealed ampules.

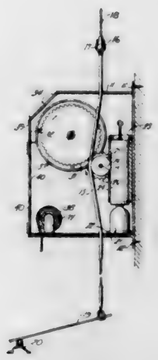
2,530,481
MILK CRATE
William L. Rawn, Jr., Palo Alto, Calif., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
Application November 5, 1945, Serial No. 626,592
5 Claims. (Cl. 220—76)

2. A crate structure for milk bottles and the like comprising side and end pieces, said end pieces having integral, right angular extending and spaced lugs and said side pieces having integral planar spaced lugs interlocking with the spaced lugs of said end pieces, certain of the lugs on said end pieces having wedging end engagement with said side pieces, a bottom member having projections engageable with the interlocking lugs on said end and side pieces and securing means thrust through said projections,



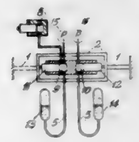
and said interfitting lugs, whereby said end and side pieces are held together.

2,530,482
FOOT-OPERATED DEVICE FOR FLUSHING TOILETS
Walter Rothe and Ernest E. Rothe, New York, N. Y.
Application October 22, 1948, Serial No. 55,996
3 Claims. (Cl. 4—249)



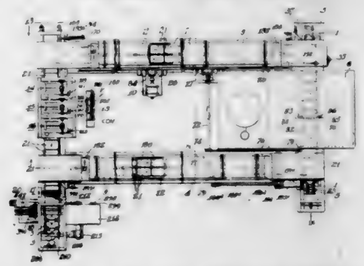
1. A flush valve operating device for a toilet of the handle operated type, comprising a cabinet adapted to be secured to a wall adjacent the toilet, a flexible cable extending slidably through said cabinet, means securing the top end of said cable to the flush valve handle of said toilet, foot actuable means operatively connected to the lower end of said cable, a deodorant container in said cabinet, a closure member normally resting on the top of said container and mounted in said cabinet for upward and downward movement with respect to said container and a friction roller journalled horizontally in said cabinet between said cable and said closure member and frictionally engaging the cable and closure member, whereby said closure member is raised responsive to the downward movement of said cable.

2,530,483
HYDRAULIC TESTING MACHINE FOR THE PULSATORY TESTING OF TEST SPECIMENS
Max Russenberger, Schaffhausen, Switzerland, assignor to Alfred J. Amsler & Co., Schaffhausen, Switzerland
Application March 21, 1944, Serial No. 527,468
In Switzerland May 4, 1943
2 Claims. (Cl. 73—92)



1. In a hydraulic testing machine for the pulsatory testing of test specimens, a working cylinder, a piston contained in said working cylinder and connected forwardly thereof with the test specimen, a gas expansion chamber, an oscillatory resonant hydraulic system including an elongated tube directly and uninterruptedly connecting said working cylinder rearwardly of said piston to said gas expansion chamber, a fluid in said tube in bearing contact with the rear end surface of said piston, said piston having a greater area than the cross sectional area of said tube, means for generating a reciprocatory flow of said fluid, and means for applying a static initial pressure to the system.

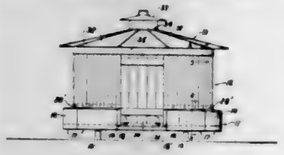
2,530,484
MACHINE FOR MAKING COMPOSITE STRUCTURES
Edgar H. Schmidt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 19, 1947, Serial No. 786,844
22 Claims. (Cl. 91—14)



1. A device of the kind described comprising a conveyor means having a device for securing thereon a removable transferable depository upon which a plurality of layers of material are to be deposited, a device for advancing said conveyor means in a series of movements separated by dwells for carrying said depository into positions to receive said layers, means for depositing a layer of material on said depository during some of said dwells, control means operative to actuate said depositing means for depositing said material during some of said dwells and for preventing the deposition of material during the advancing of the depository, means for discharging said depository from said conveying means after the depository has received a predetermined number of layers, and control means for preventing the operation of said discharge means, for causing a

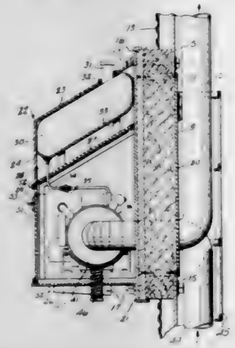
predetermined repetitious conveying of said depository in position to receive said layers and for regulating the number of layers of material to be deposited on said depository.

2,530,485
ANIMAL HOUSE
Harold S. Shannon, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware
Application May 1, 1946, Serial No. 666,411
7 Claims. (Cl. 119—16)



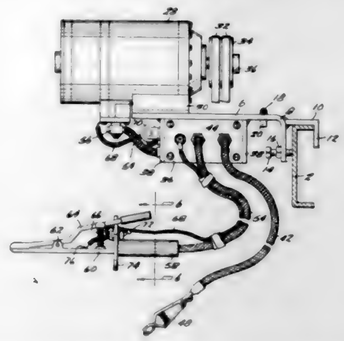
1. An animal house comprising a floor, an upper side wall having a lower edge terminating in spaced relation to and above the floor, a lower exterior side wall extending upwardly above the floor offset outwardly from the upper side wall, a laterally extending, imperforate wall joined to the lower side wall, the laterally extending wall extending inwardly beneath the lower edge of the upper side wall at a height above the floor providing a refuge for young animals at a height restricting large animals to the area inwardly of the upper side wall, and an upwardly directed flange on the laterally extending wall positioned inwardly of the upper side wall for connection therewith.

2,530,486
FORCED FLOW PORTABLE AIR HEATER FOR MOUNTING UPON THE EXTERIOR WALLS OF ROOMS TO BE HEATED
Alwood H. Steinmetz, Watertown, S. Dak.
Application April 6, 1948, Serial No. 19,362
4 Claims. (Cl. 126—110)



4. A portable heater for rooms, comprising a panel adapted to be mounted on an exterior wall of a room, a housing carried by said panel, a partition in said housing providing upper and lower compartments, a fuel tank in said upper compartment, a combined fluid fuel air heater and hot air-distributing blower in said lower compartment, a fuel line connecting said tank to said heater, hot air intake and outlet conduits operatively connected to said blower and adapted to be positioned in said room, said lower compartment including a front wall and a floor, a means mounting said front wall for lateral sliding movement to permit access to said lower compartment, an exhaust for said heater extending through said floor, an air intake for said heater extending through said floor, and said intake being directed toward the panel side of the heater, whereby when said panel is applied to a room wall the intake is adapted to face the room wall.

2,530,487
PORTABLE ARC WELDER
Keith Thorndyke, Pipestone, Minn.
Application May 4, 1948, Serial No. 24,932
2 Claims. (Cl. 322—1)



1. In a welding outfit for a vehicle having a chassis with side beams, the combination which comprises a longitudinally disposed base plate horizontally positioned and having an inner downwardly extended flange on one end thereof with a second downwardly extended flange extended from the end of the base plate, parallel to the former flange and spaced therefrom, adjusting screws threaded in the said inner flange of the base plate and positioned to coact with the said second flange for clamping the outfit on a side beam of the vehicle chassis, a welding generator mounted on said base plate, a reactor coil carried by the base plate, and a face plate having a plurality of terminals thereon depending from one side of the said base plate.

2,530,488
TRIALKYLAMINE SALTS OF PENICILLIN AND PROCESS FOR THE PURIFICATION OF PENICILLIN
Neil E. Rigler, Glen Rock, N. J., assignor to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 12, 1945, Serial No. 604,724
5 Claims. (Cl. 260—302)

1. A crystalline triethylamine salt of penicillin G.

5. A process for the recovery and purification of penicillin G which comprises adding triethylamine to a substantially anhydrous solution of the crude penicillin G in a solvent selected from the group of ether, methyl isobutyl ketone, amyl acetate and methyl amyl acetate and forming the triethylamine salt of penicillin G, separating precipitated impurities, crystallizing the triethylamine salt of penicillin G from the resulting solution and subsequently separating the crystals of the triethylamine salt of penicillin G.

2,530,489
INCENDIARY COMPOSITION
William F. Van Loenen, Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
No Drawing. Application September 25, 1944, Serial No. 555,765
9 Claims. (Cl. 52—24)

1. An incendiary composition comprising the magnesium dust formed in the thermal reduction of magnesia by carbon, said dust bearing a coating comprising a mixture of asphalt and liquid hydrocarbon to reduce its activity in air, and at least one substance of the class consisting of the metallic carbides and the metallic phosphides.

2,530,490
METHOD OF MAKING INCENDIARY COMPOSITIONS
William F. Van Loenen, Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
No Drawing. Application September 25, 1944, Serial No. 555,766
9 Claims. (Cl. 52—24)

1. In the method of creating incendiary conditions comprising bringing pyrophoric, finely divided magnesium into contact with an oxidizing agent, the improvement which comprises bringing carbothermic magnesium dust coated with a mixture of asphalt and liquid hydrocarbon into contact with a liquid capable of oxidizing said magnesium and containing a wetting agent.

2,530,491
INCENDIARY COMPOSITION
William F. Van Loenen, Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
No Drawing. Application September 25, 1944, Serial No. 555,767
10 Claims. (Cl. 52—24)

6. An incendiary composition comprising, magnesium dust formed in the thermal reduction of magnesia by carbon and coated with a hydrocarbon compound to reduce its activity in air, and starch and sodium nitrate, the combined weights of said starch and sodium nitrate amounting to about 5% to 15% by weight of the composition.

2,530,492
METHOD OF MAKING INCENDIARY COMPOSITIONS
William F. Van Loenen, Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
No Drawing. Application September 25, 1944, Serial No. 555,769
1 Claim. (Cl. 52—24)

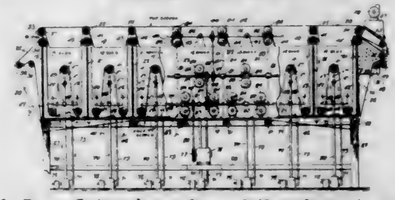
A method of making an incendiary material which comprises, admixing carbothermic magnesium dust with from 10% to 30% by weight of a hydrocarbon comprising 70% distillate and 30% asphalt, forming pellets of the said admixed materials, drying the pellets at a temperature substantially below the coking temperature of the hydrocarbon, and coking the pellets at a temperature substantially between 850°–900° F. for about an hour.

2,530,493
MAGNESIUM-CONTAINING INCENDIARY COMPOSITION AND PROCESS OF PRODUCING SAME
William F. Van Loenen, Laurel, Calif., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
No Drawing. Application June 19, 1948, Serial No. 34,149
12 Claims. (Cl. 52—23)

1. An incendiary composition comprising a mixture of carbothermic magnesium dust, containing from 30% to 65% magnesium metal dust, and a hydrocarbon component containing from 10% to 45% asphalt and from 55% to 90% liquid hydrocarbon, said incendiary composition containing from 55% to 70% of solids.

6. A method of preparing an incendiary composition which comprises, preparing a solution of 10% to 40% of asphalt in a liquid hydrocarbon, admixing said asphalt solution with magnesium dust containing 30% to 65% of finely divided magnesium and formed in the thermal reduction of magnesia with carbon to form a mixture containing 55% to 70% of solids, and distilling off a part of said liquid hydrocarbon.

2,530,494
FLATWORK WASHER
Oliver S. Vigerust, La Tuna, Tex.
Application February 8, 1946, Serial No. 646,437
4 Claims. (Cl. 68—9)

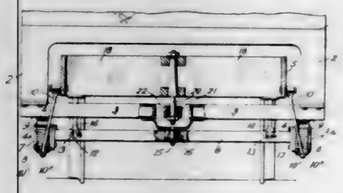


1. In a flatwork washer of the character disclosed, the combination of a plurality of tanks adapted to contain liquid, a pair of endless foraminous belts adapted to be passed progressively through the tanks with flatwork pieces carried therebetween, a plurality of nozzles in each tank and disposed adjacent said belts therein, a detergent in each tank and means for forcing the detergent through said nozzles and onto the flatwork pieces carried by the belts, a plurality of rotary agitators in each tank and arranged adjacent to said nozzles therein, a plurality of rollers in each of said tanks for directing the belts in a predetermined path therethrough adjacent said nozzles and agitators therein, said rollers and agitators being grouped in pairs, a pair of worm gears secured to each adjacent pair of rollers and agitators, a drive shaft, a plurality of worms carried by said shaft, each of the worms being disposed between and in mesh with a pair of worm gears, and means for driving the shaft.

2,530,495
RAIL-VEHICLE BOGIE WITH DEPRESSED CENTER PIN
Jakob Waldvogel, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application July 21, 1947, Serial No. 762,229
In Switzerland February 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 11, 1963
5 Claims. (Cl. 105—199)

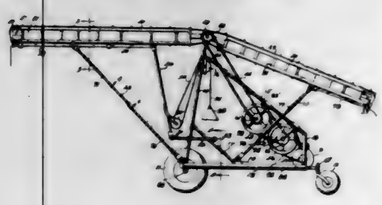
1. In a rail-vehicle bogie-frame, in combination with a vehicle-body including a transom

having a depressed center portion, a bolster structure including at least one longitudinal spring on either side of the bogie frame, said springs having center buckles, and a bolster beam rigidly interconnecting the center buckles of the springs, a vertical auxiliary pin rigidly secured to the depressed transom center portion and secured in a universally tiltable and longitudinally displaceable relationship to the center portion of the bolster beam and substantially at the level thereof, body supporting means disposed between each center buckle of the said springs and the ends of the transom, a portion of said means moving, relative to the vehicle body, on circular arcs about the auxiliary pin as center, hanger means suspending each end of



the springs laterally oscillatably from the bogie frame, a king pin interconnecting the bogie frame and vehicle-body transom in a universally tiltable and transversally displaceable relationship and substantially at the level of the transom, and link means disposed horizontally on either side of the bogie frame and interconnecting the latter and the bolster so as to hold the bolster substantially parallel to the transverse bogie axis; whereby bending action on the bolster beam arising from traction forces is avoided, the vehicle body transom directly transmits the traction and braking forces from the bogie frame to the vehicle body through the king pin, and the auxiliary pin is used only for transmitting the transverse forces into the bolster.

2,530,496
HAY STACKER AND LOADER
Harold R. Watson, Victorville, Calif.
Application September 20, 1946, Serial No. 698,295
3 Claims. (Cl. 198—91)

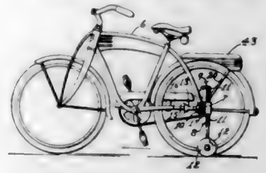


1. Conveyor mechanism comprising a wheel-supported frame including a pair of spaced-apart, upwardly-extending standards, a pair of longitudinally-aligned conveyor units disposed in end-to-end relationship, means pivotally connecting the adjacent inner ends of said conveyor units to the upper ends of said standards, adjustable struts pivotally connected at their lower ends to said frame and at their upper ends, one to each conveyor unit to support said units with their free ends at desired elevations, movable conveyor belts in each of said conveyor units, a power unit mounted on said frame, and speed-reducing drive means connecting said power unit with said conveyor belts for driving the latter, each of said conveyor units comprising a pair of substantially parallel side-frame members, a platform plate extending between and having its longitudinal edges secured one to each of said side-frame members, a pair of transverse shafts journaled in said side-frame members, one near each end of said unit carrying the corresponding conveyor belt.

2,530,497
PRODUCTION OF PENTAZDIENES
John E. Wicklatz, Cincinnati, Ohio, assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 5, 1947, Serial No. 752,838
12 Claims. (Cl. 260—140)

10. An improved process for producing a 1,5-diaryl-1,4-pentazdiene, which comprises reacting together at a reaction temperature not greater than about 0° C. an aryl diazonium salt and a primary amine while in a strongly alkaline liquid reaction medium comprising at least about 20 per cent by weight of an ether of ethylene glycol.

2,530,498
BICYCLE STABILIZER
Lyle C. Atwood and Agnar Johnson, Rockford, Ill., assignors to Atwood Vacuum Machine Company, Rockford, Ill., a corporation of Illinois
Application May 7, 1949, Serial No. 91,932
3 Claims. (Cl. 280—293)

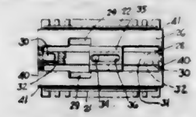


1. As an article of manufacture, a one-piece sheet metal bracket comprising a main body portion having an elongated radius arm extending from its one end which arm is formed for connection with a bar on one side of a bicycle rear fork, the other end portion of said body portion being bent upon itself so as to define a generally rectangular loop adapted to receive a wheel supporting standard, the free end of the latter end portion being bent to closely spaced parallel relation to the body portion and having a hole provided therein in register with a hole provided in the main body portion adapted to receive the rear axle of the bicycle, one of the closely spaced portions having a projection on that side of the holes away from the loop and spaced from said holes to limit by engagement with the other of said closely spaced portions distortion of the free end portion toward the body portion.

2,530,499
RAZOR WITH MEANS FOR RECONDITIONING THE CUTTING EDGES OF RAZOR BLADES
Zemach Auerbach, Bronx, N. Y.
Application February 14, 1947, Serial No. 728,572
2 Claims. (Cl. 30—36)

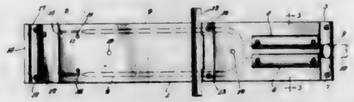
1. A safety razor for a double edged blade having cutting edges, a movable plate having edges

adapted to ride over said cutting edges of said blade, a rectangular opening in said movable plate and opposed notches communicating with said opening, a bar within said opening, opposed pins projecting into the ends of said rectangular opening, notches at the ends of said bar to slideably receive said pins, a screw depending from



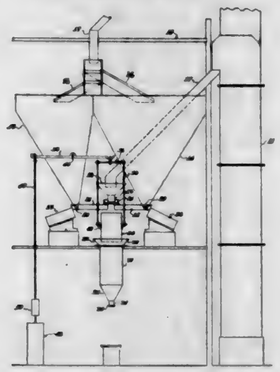
said bar, a pin projecting from the top of said bar, a locking member with depending projections movable along said bar guided by said pin, platform for said blade, and a handle for said razor, said handle having a threaded opening adapted to receive said screw for tightening said platform with said bar and plate.

2,530,500
BICYCLE FORK FIXTURE
Thomas Avenia, New York, N. Y.
Application January 10, 1947, Serial No. 721,290
4 Claims. (Cl. 33—174)



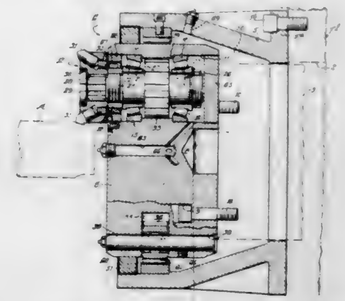
2. A testing fixture comprising a base panel, a shelf at one end projecting from the face of the panel, a second shelf adjacent the first removably secured to the panel, a cylindrical transverse bolster at the opposite end of the panel, a cylindrical longitudinal bolster at each side of the longitudinal center line of the panel extending from the transverse bolster toward the shelves, said longitudinal bolsters being close to each other, and a transverse strip hinged to said base panel between the shelves and the bolsters.

2,530,501
APPARATUS FOR PROPORTIONING AND MIXING MATERIALS
Arthur C. Avril, Cincinnati, Ohio
Application March 20, 1947, Serial No. 735,902
4 Claims. (Cl. 259—150)



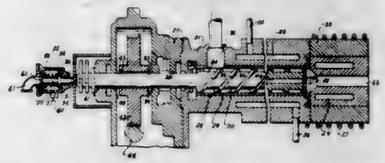
1. An apparatus for proportioning and mixing materials comprising; a plurality of scale beams, a respective scale hopper suspended from each of said beams, a feeding device for each of said hoppers, respective power means for actuating said feeding devices, a control system interconnecting said power means with said scale beams to control the quantity of the ingredient charged into said hoppers, a mixing hopper disposed beneath said scale hoppers, said mixing hopper having baffles adapted to intermingle said ingredients, each of said scale hoppers having a discharge door, and means for opening said discharge doors simultaneously so as to discharge the contents of said hoppers together into the mixing hopper.

2,530,502
MILLING MACHINE HEAD
Harry N. Baney, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 18, 1947, Serial No. 774,838
3 Claims. (Cl. 90—11)



1. A milling head comprising a plurality of cutters, planetary gear mechanism including planet gears connected to said cutters for rotating the cutters, a stationary ring gear formed with internal teeth, planet gears meshing with said first-mentioned planet gears and with the internal teeth of said ring gear, and a carrier for said planet gears, and means for rotating said carrier.

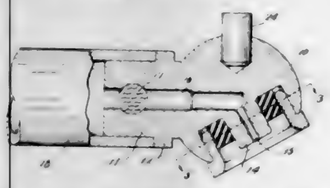
2,530,503
CONTINUOUS EXTRUSION MACHINE
William H. Bonham, Metuchen, N. J., assignor to Nixon Nitration Works, Nixon, N. J., a corporation of New Jersey
Application August 2, 1947, Serial No. 765,721
11 Claims. (Cl. 18—12)



1. In an extrusion machine, in combination, an extrusion cylinder having a loading end and a delivery end; and a conveyor screw rotatably mounted in the cylinder with its flight edges in bearing contact with the wall surface of said cylinder for delivering material from the loading end of the cylinder to the delivery end thereof, said screw having a longitudinal passageway therein extending from the loading end to the

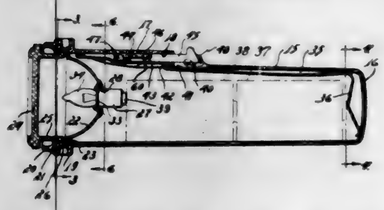
delivery end, the screw thread of the conveyor being provided with an orifice at its periphery adjacent said delivery end and connected to said passageway for delivering lubricants to the cylinder wall at the delivery end of the screw.

2,530,504
GAUGE CHUCK
Ralph K. Boyer, Lakewood, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 1, 1949, Serial No. 119,083
1 Claim. (Cl. 285—163)



An air chuck comprising a head from which extends an attaching portion, said head being provided with a recess extending inwardly of the head, said head including a circular projection located in said recess and having a passage therethrough, said head and said attaching portion being provided with a bore communicating with the inner end of said passage, a sleeve secured in said recess in tight engagement with the wall thereof and provided adjacent its inner end and interiorly thereof with gasket retaining grooves, and a rubber-like gasket having a central opening of a diameter to tightly fit said projection and being of an external diameter such as to be forcible into the space between said projection and said sleeve and to interlock with said grooves, whereby said gasket will be retained in operative position in said head but can be pried readily therefrom when it is desired to replace it with a new and unworn gasket.

2,530,505
FLASHLIGHT SWITCH OPERATING MECHANISM
Elkanah H. Brill, Birmingham, Mich.
Application May 1, 1946, Serial No. 666,231
2 Claims. (Cl. 240—10.66)



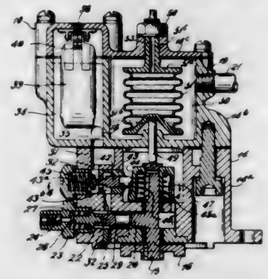
1. In a flashlight of the class described, a handle forming housing adapted for the reception of a battery and having an enclosing wall and open at one end; a longitudinally extending bulge on the periphery of said housing and extending rearwardly from adjacent the forward end thereof, said bulge having a longitudinally extending channel formed therein and opening outwardly thereof at its rear end, there being formed in said housing an opening and a slot in spaced apart relation and each communicating with the channel in said bulge; a bar slideably mounted in said channel and accessible from the exterior of said housing and having on its inner face a longitudinally directed groove terminating inwardly from the forward end thereof to provide a shoulder; a metallic strip within and extending longitudinally of said housing in parallelism with said channel and contacting at one end on one side of a battery positioned in said housing; a light bulb having a pair of spaced apart contacts, one of said contacts being in engagement with the opposite end of said battery; a metallic supporting member for said bulb and electrically connected to the other contact of said bulb, said bar being adapted upon forward movement, for moving the end of said metallic strip into contact with the said supporting member; an outwardly pressed tongue on said metallic strip engaging in the opening in the wall of said housing for normally resisting forward movement of said strip relatively to said housing; and an outwardly projecting tongue on said metallic strip projecting through said slot and engaging in said groove and adapted, upon rearward movement of said bar, for engaging said abutment shoulder and preventing withdrawal of said bar from said channel.

2,530,506
METHOD OF TREATING REFRACTORY ARTICLES
Charles E. Buchwald, Flushing, N. Y., and John Ehret, Jr., Trenton, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 12, 1946, Serial No. 653,950
6 Claims. (Cl. 25—157)

1. The method of treating an article of iron bearing refractory material for use as a furnace element, which method comprises steps of firing the article at a temperature above that at which the article is to be subsequently employed but below a temperature approximately corresponding to a desired final electro-thermic conversion factor for the article, cooling the article, measuring the electro-thermic conversion factor of the article, and refiring the article at a still higher temperature predetermined in accordance with the measured value of the electro-thermic conversion factor thereof to increase the factor to the desired final value.

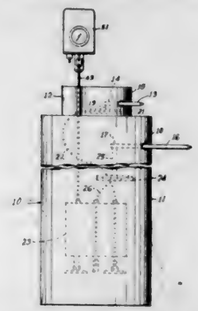
2,530,507
FUEL INJECTION APPARATUS AND CONTROL
John F. Campbell, Euclid, Ohio
Application October 25, 1945, Serial No. 624,475
14 Claims. (Cl. 103—16)

1. In fuel supply apparatus for engines, a housing, a shaft rotatable in said housing, a plurality of pump chambers in said housing and disposed around said shaft and provided with fuel delivery outlets, pumping members in said chambers driven from said shaft and having reciprocable intake and discharge strokes, means defining in said housing an inlet space located above said chambers and extending around the axis of said shaft and adapted to contain a solid body of liquid fuel and including inlet passages extending downwardly to the respective pump chambers, valves disposed around said shaft and controlling the respective inlet passages, and means for causing positive actuation of said valves from said shaft such that each valve is held open during the entire intake stroke of its associated pumping members, said inlet space and inlet passages being located wholly above said pump chambers such



that the flow of liquid fuel into said pump chambers is assisted by the force of gravity.

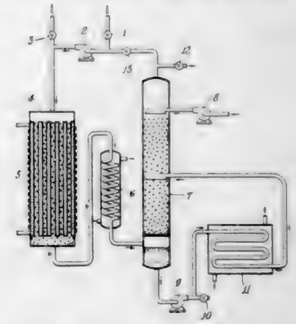
2,530,508
APPARATUS FOR RECORDING THE OPERATION OF CONTROL LEVERS OF ELECTRICALLY DRIVEN VEHICLES
Robert S. Clark, Albany, N. Y., assignor, by mesne assignments, to F. N. Bard, Chicago, Ill.
Application September 13, 1947, Serial No. 773,826
6 Claims. (Cl. 346—34)



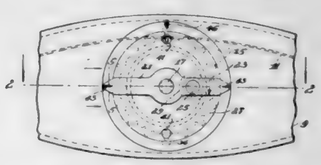
1. In apparatus for recording on a moving tape by means of a pencil the operation of an electrically driven vehicle controlled by a throttle and a reverse lever, the combination of a rocker arm pivoted between its ends, a connection between one end of the arm and the pencil to cause the pencil to move in unison with said end of the arm, means actuated by the reverse lever for shifting the pivot of the rocker arm in the plane of rocking movement of the arm, and a connection between the other end of the arm and the throttle to cause said end of the arm to move to different positions, as the throttle is moved to different settings.

2,530,509
PRODUCTION OF PROPYLENE OXIDE
Gerhard A. Cook, Snyder, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application February 14, 1947, Serial No. 728,499
9 Claims. (Cl. 260—348.5)

1. A process for producing propylene oxide by direct oxidation which comprises reacting, at a temperature within the range of about 275° C. to about 700° C., hydrocarbon gas selected from the group consisting of propane and propylene with a gas containing molecular oxygen in amount sufficient to give in the total gas mixture a molar ratio of hydrocarbon to oxygen of at least 2 and not more than 20, while confining the gases in a reaction zone having a ratio of area of gas contacting surface to volume of free space of at least 5 square centimeters per cubic centimeter, and maintaining a pressure above atmospheric on the reacting gases.

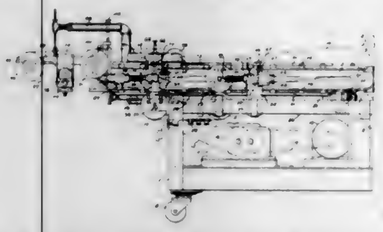


2,530,510
FILM POSITION INDICATOR FOR CAMERAS
Chester W. Crumrine, Irondequoit, N. Y., assignor, by mesne assignments, to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application July 22, 1946, Serial No. 685,408
1 Claim. (Cl. 33—132)



A photographic camera of the type employing film having a longitudinally extending series of perforations near one edge, said camera comprising a case having a recess in one face, a sprocket wheel having teeth engaging in said perforations so that movement of said film rotates said sprocket wheel, a shaft driven by said sprocket wheel and extending into said recess, a face plate covering and closing the outer open end of said recess, said face plate being mounted on said shaft to rotate therewith, a plurality of symmetrically spaced apertures extending through said face plate near the outer edge thereof, a fixed internal gear in said recess, a rotatable internal gear in said recess interposed between said fixed gear and said face plate and carrying a series of film position identifying numerals selectively visible through one or another of said apertures in said face plate, said rotatable gear having a number of teeth different from that of said fixed gear, a stud fixed relative to and projecting inwardly beyond the inner face of said face plate, and a pinion rotatably mounted on said stud and meshing with both of said gears so that it rolls on said fixed gear and drives said rotatable gear as said shaft and said face plate are turned, to cause successive numerals on said rotatable gear to appear through said apertures in said face plate as said sprocket and shaft are turned by advancing movement of said film.

2,530,511
GLASS SEVERING MEANS AND PROCESS
Edward Danner, Newark, Ohio
Application February 16, 1948, Serial No. 8,567
13 Claims. (Cl. 49—48)

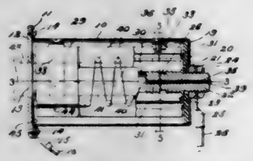


4. In an apparatus for severing elongated glass or like stock during longitudinal movement of the stock and which includes means movable longitudinally in unison with the stock for weakening a localized portion of the stock in a transverse plane, the combination of a fulcrum member for laterally supporting the stock at such weakened portion, means for moving said fulcrum member longitudinally in unison with the stock, and means for applying lateral pressure on the stock in advance of such weakened portion whereby to sever the stock at such weakened portion and about said fulcrum.

2,530,512
OXIDATION OF ALIPHATIC ESTERS
James Gordon Napier Drewitt, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application June 8, 1948, Serial No. 31,837. In Great Britain June 13, 1947
4 Claims. (Cl. 260—541)

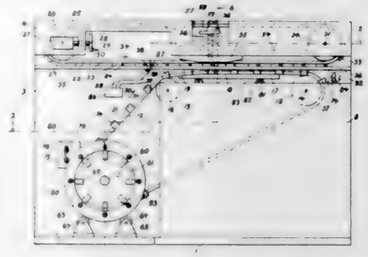
1. Process for the manufacture of oxygen-containing organic compounds, which comprises heating together oxygen and a member of the group consisting of the acetic acid esters of ethyl, propyl and butyl alcohols to a temperature of at least 125° C. under a total pressure of at least 100 pounds per square inch until oxidation takes place to produce acetic acid and, as an oxidation product of the alkyl radicle of the ester, a compound of formula R.CO.R', where R is a member of the group consisting of methyl and ethyl groups and R' is a member of the group consisting of methyl and hydroxy groups.

2,530,513
APPARATUS FOR HEATING MOTOR VEHICLE DOOR KEYS
Allan J. Drugan, Columbus, Ohio
Application April 7, 1949, Serial No. 86,075
2 Claims. (Cl. 219—19)



1. An electrical key heater comprising a body of dielectric material formed with a relatively narrow guide slot for the passage of the shank portion of a lock key and a recessed portion adjacent to the guide slot into which the shank portion of a key inserted through said slot may enter; an electrical heating element comprising a length of electrical resistance wire mounted on said body on either side of the recessed portion thereof and operable upon energization to heat the shank portion of a key extending within the recessed portion of said body by radiation; a first terminal carried by said body and electrically connected with said resistance wire; an outer casing surrounding said body and said heating element and provided with a face plate having an opening in registration with the guide slot of said body and a laterally enlarged attachment flange for connecting said casing to a supporting wall; a second terminal carried on said casing; and a resiliently movable switch arm electrically connected with said second terminal and movable upon insertion of the shank portion of a key through the opening of said face plate and into the recessed portion of said body into engagement with said resistance wire to complete an energizing circuit through said resistance wire and between said first and second terminals, said switch arm being normally arranged to move to a circuit-opening position in the absence of a key within the recessed portion of said body.

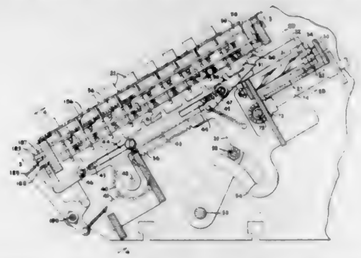
2,530,514
BUTTON SHANKING MACHINE
Bernard C. Eisenberg, Brooklyn, N. Y.
Application December 23, 1947, Serial No. 793,346
13 Claims. (Cl. 79—2)



1. A button shanking machine comprising a movable system of transport members adapted to move buttons in a definite direction, a movable system of carriers adapted to support shanks, means to move said systems continuously, said systems being so guided that they move said buttons and shanks along paths converging toward parallel path stretches having such a distance that a surface of each of said shanks contacts a surface of one of said buttons, and means to make one of said contacting surfaces adhesive before said surfaces contact each other.

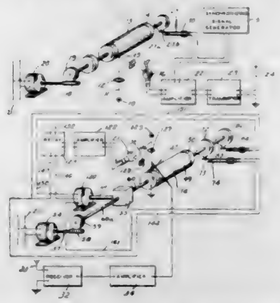
2,530,515
VALUE SELECTING AND ENTERING MECHANISM
Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application May 3, 1948, Serial No. 24,888
10 Claims. (Cl. 235—73)

1. In a calculating machine, a register, ordinally-arranged means for controlling registration of selected values therein including in each order, a selecting mechanism, a value-entering means, a differentially-reciprocable actuator, and a screw and nut, means for mounting said screw for rotation but maintaining it against endwise movement, said screw being connected to said value-entering means, said nut being reciprocated by said actuator, whereby differential rotation is imparted to said value-entering means



corresponding to the differential reciprocation of said actuator.

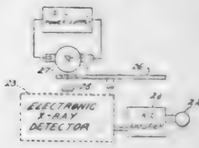
2,530,516
HIGH-SPEED FACSIMILE SYNCHRONIZING SYSTEM
William G. H. Finch, Newtown, Conn.
Application September 28, 1945, Serial No. 619,169
6 Claims. (Cl. 178—69.5)



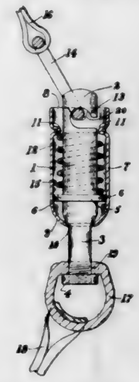
1. In a facsimile system comprising a transmitter and a receiver; said transmitter including a drum for carrying a record to be transmitted and said receiver including a drum for carrying a sheet to record the image; means at the receiver for marking the record sheet; driving means at the transmitter and receiver for rotating the respective drums at approximately synchronous speed; means at the transmitter for generating a synchronizing signal; means at the receiver for receiving the synchronizing signal; said marking means at the receiver being responsive to said synchronizing signal to make a characteristic mark on the record on the receiver drum; and means including a single photoelectric cell responsive to the position of the characteristic mark on the record for increasing or decreasing the speed of the receiver drum, in accordance with its position relative to the transmitter drum for maintaining synchronism therebetween.

2,530,517
X-RAY TESTING AND MEASURING METHOD AND APPARATUS
Frédéric Fua, New York, N. Y., assignor to X-Ray Electronic Corporation, New York, N. Y., a corporation of New York
Application November 1, 1944, Serial No. 561,361
3 Claims. (Cl. 250—83.6)

1. Apparatus for the testing of material by the measurement of X-ray penetrating the material including, in combination, a source of an X-ray beam, means for interposing the material to be tested in the path of said beam, an X-ray detector in the path of said beam beyond said material from said source producing electric signals varying in amplitude with variations in amplitudes of the impinging X-ray, a continuously moving X-ray interceptor in the X-ray beam between said source and said detector having regularly and smoothly recurrent variations of absorption power, a highly selective alternating current amplifier tuned to have a very narrow bandpass corresponding to the frequency of said regularly recurrent amplitude variations receiving the signals from said detector as input, and a quantitatively calibrated meter for measuring the output of said amplifier.



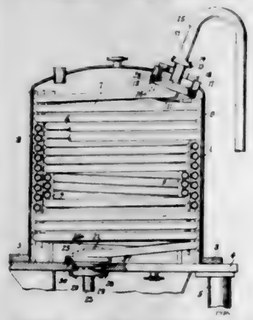
2,530,518
HOOK FASTENER
Lloyd Stephen Girard, Quincy, Mass.
Application May 17, 1948, Serial No. 27,378
1 Claim. (Cl. 24—239)



A hook fastener comprising an elongated hook member presenting a body portion of uniform diameter having a hook at its outer end and an inner end portion of reduced diameter, there being a shoulder on the hook member where the end portion of reduced diameter merges with the body portion, said body portion having an exterior circumferential flange spaced from the hook and provided with a notch, an open ended tubular guard member surrounding the hook member, said guard member having an interior diameter larger than the diameter of the body portion of the hook member and corresponding with the diameter of the circumferential flange, and also having an interior shoulder adjacent its outer end, whereby an annular space is provided between the body portion of the hook member and said guard member and between said circumferential flange and said internal shoulder of the guard member, a spring surrounding the body portion of the hook member and occupying said annular space, the ends of said spring bearing

against said circumferential flange and said interior shoulder and normally urging the hook member and the guard member into relative positions in which the hook is covered by the open end of the guard member, said guard member having an internal projection located on the hook side of the flange when the guard member is in hook-closing position, said guard member and hook member being movable relative to each other in an axial direction against the action of the spring to expose the hook beyond the open end of the guard member, said projection passing through said notch during such relative movement, relative turning movement of the guard member and hook member positioning the projection beneath the flange and thus locking the hook in open position.

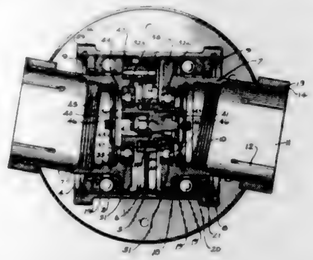
2,530,519
COOKER
Max M. Guggenheim, New York, N. Y., assignor to National Equipment Corporation, New York, N. Y., a corporation of New York
Application October 29, 1947, Serial No. 782,749
2 Claims. (Cl. 257—205)



1. In a cooker of the character described, a coupling for the ends of a pair of fluid-conveying coils, said coupling consisting of a disk having a central inlet passage, a pipe connected to said passage, said coupling having a pair of passages in communication with one end of the central passage and extending divergently from the central passage to the edge of the coupling, a pair of concentric coils having their ends respectively connected to the ends of the divergent passages, a cooker having a top provided with an aperture, an annulus fitted in said aperture, the coupling being disposed against a face of the annulus, and clamping means for holding the coupling against said face of the annulus, said clamping means including a ring disposed against the opposite face of the annulus, and threadable fastening elements extending through the aperture in the annulus and passing through the ring and threadably received in the coupling, said ring and coupling being attached to said annulus solely by clamping pressure imposed on it between the coupling and ring.

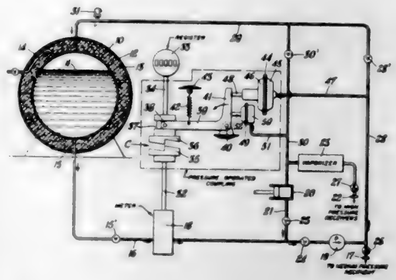
2,530,520
PROPELLER HUB
Paul F. Hackethal, Cockeysville, and Romuald Karey, Baltimore, Md., assignors to Everel Propeller Corporation, Baltimore, Md., a corporation of Maryland
Application September 17, 1946, Serial No. 697,488
3 Claims. (Cl. 170—160.58)

1. A hub construction for variable pitch propellers comprising a tubular blade mounting member open at both ends for the reception of blade carrying members rotatably mounted in each of said open ends, means associated with the open ends of said tubular mounting member for blocking outward movement of said blade carrying members, a pair of telescoped threadedly interconnected elements, one of said elements engaging the inner end portion of one of said blade



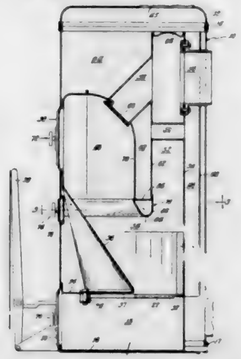
carrying members and the other of said elements engaging the inner end portion of the other of said blade carrying members, the inner of said elements having a splined bore and the outer of said elements having a slotted end portion, a locking member having a splined external surface for insertion in said splined bore and a head for engagement with the slotted portion to lock said elements against relative rotation.

2,530,521
SYSTEM FOR DISPENSING MEASURED QUANTITIES OF LIQUEFIED GAS
Odd A. Hansen, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application August 25, 1947, Serial No. 770,485
15 Claims. (Cl. 62—1)



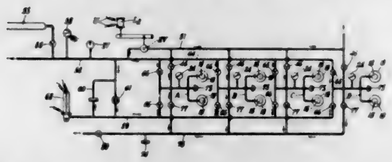
9. An apparatus for dispensing metered amounts of a low-boiling liquefied gas comprising a supply container holding a body of liquefied gas at low temperature; a transfer conduit from the liquid space of said supply container to a delivery connection; a pump and meter for liquefied gas interposed in said transfer conduit, said meter having a register mechanism and a register driving means including a normally disengaged coupling; a by-pass connected between said supply container and said delivery conduit on the discharge side of said pump and meter, said by-pass having a control valve; and means for engaging said coupling when said control valve is closed during operation of said pump.

2,530,522
MAGAZINE FEED FURNACE
Cleo Harris, Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 12, 1946, Serial No. 640,728
5 Claims. (Cl. 110—29)



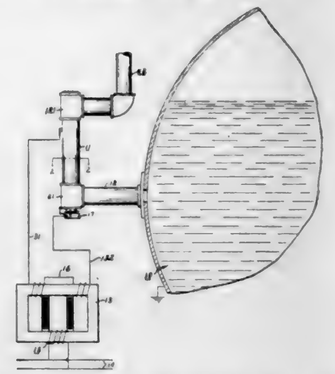
1. In a furnace, in combination, a grate, means forming a combustion chamber above said grate, a magazine for containing a charge of fuel, a slide extending from said magazine to said grate for feeding fuel to the grate, an air inlet duct partially encircling said magazine, the inlet end of said duct communicating with the exterior of said furnace, said duct having exit orifices formed therein to permit air to enter the combustion chamber, and flanges on said slide, said duct being supported in part on said flanges.

2,530,523
APPARATUS AND METHOD FOR FILLING GAS STORAGE CYLINDERS
Anton E. Hittl, Buffalo, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application March 2, 1944, Serial No. 524,740
5 Claims. (Cl. 226—20.1)



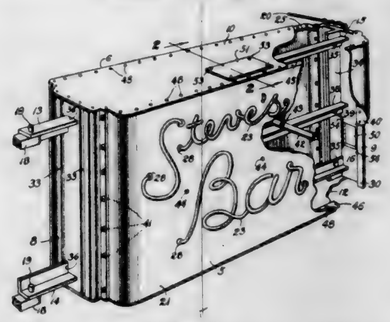
5. In the art of first evacuating and then rapidly filling gas storage cylinders with gas under pressure, the improvement which comprises rapidly overfilling at least one gas storage cylinder through a bleed line and a filling line from a suitable source of gas under pressure, while evacuating at least one other gas storage cylinder, and then simultaneously stopping the flow of gas to the overfilled cylinder through the filling line and connecting both the evacuated cylinder and the overfilled cylinder in communication with such source of gas, by way of the filling line and such bleed line, so that the resulting rush of gas through the filling line to the evacuated cylinder reduces the pressure in the filling line to such an extent that excess gas bleeds from the overfilled cylinder back into the filling line, and closing the filled cylinder when the pressure of the gas in such filled cylinder drops to the desired value.

2,530,524
LIQUID TREATING DEVICE
William S. Hlavin, Cleveland, Ohio
Application May 16, 1945, Serial No. 594,121
5 Claims. (Cl. 204—217)



1. An apparatus for preventing the formation of scale in a water tank comprising, a tubular housing of current conducting material electrically connected to said tank, a ceramic lining on the inside of said housing through which water containing scale forming salts may flow, a first sleeve shaped electrode mounted within and insulated from said housing and supported by said ceramic lining, a second electrode longitudinally disposed within said first electrode, one of said electrodes comprising graphite and the other of said electrodes comprising Monel, insulation support means for supporting said second electrode and for insulating the same from the first electrode and the housing, a transformer having a primary adapted to be connected to a source of A. C. potential and having a secondary capable of passing direct current, said secondary directly interconnecting said electrodes, said scale forming salts conducting current between the electrodes and between the electrodes and the tank to prevent scale forming on the tank.

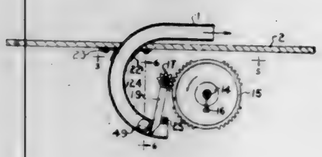
2,530,525
SIGN STRUCTURE
James A. Howenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application November 28, 1947, Serial No. 788,715
5 Claims. (Cl. 40—125)



1. In a sign construction, the combination of a pair of spaced substantially parallel display

panels each having opposed end margins, and opposed longitudinal edges, at least one rigid end plate spanning corresponding end margins of the panels, means connecting said end margins to the rigid plate, an integral rib on the end plate disposed interiorly of the sign construction between and in parallelism with the display panels, a second end plate spanning the remaining corresponding end margins of the panels, said second end plate being apertured in alignment with the rib of the first mentioned end plate, a longitudinal frame member having one end projecting through said aperture, and an opposite end fixed to the rib aforesaid, and a closure panel spanning the opposed longitudinal edges of the display panels from end to end thereof.

2,530,526
BASEBALL GAME APPARATUS
James L. Keller, Ferndale, Mich.
Application July 23, 1946, Serial No. 685,677
7 Claims. (Cl. 273—129)



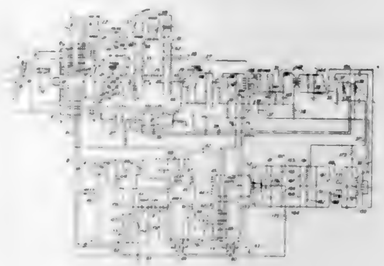
1. A ball throwing apparatus of the character described, which comprises a tube having a substantially arcuate portion terminating short of a complete circle and provided with an open end for the delivery of a ball therefrom, a supporting means for said tube, means for anchoring said tube in fixed position on said supporting means, means connected to said arcuate member for delivering a ball thereinto in position to be thrown, said arcuate portion having a longitudinal slot therein, a ball propelling arm member extending through said slot into said arcuate portion of said tube, means for pivotally mounting said arm member substantially on the axis about which said arcuate member is centered, a pinion on the axis of rotation of said arm member and fastened to same for movement in unison therewith, an intermittent gear having at least two groups of teeth with at least two of the groups having a different number of teeth, said groups of teeth being adapted to intermittently mesh with said pinion and correspondingly vary the ball propelling action, and means for suitably rotating said intermittent gear.

2,530,527
CHEMICAL APPARATUS
Meinhard H. Kotzebue, Houston, Tex., assignor to Celanese Corporation of America, a corporation of Delaware
Application July 15, 1947, Serial No. 761,049
6 Claims. (Cl. 23—252)

1. In a reaction vessel for effecting chemical reactions, an external shell provided with a plurality of inlets for introducing chemical reactants therein and a discharge tube for removing the reaction products formed, said discharge tube extending a substantial distance within said shell and being spaced therefrom, one of said inlets communicating with the space formed between said shell and said tube and another inlet extending partly within said product discharge tube

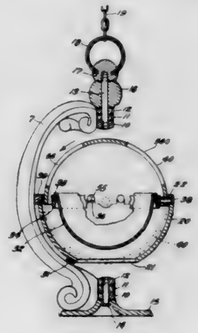
and its position being adjustable relative to said tube.

2,530,528
PHASE COMPARATOR FOR UNDERWATER SIGNALING
John G. Kreer, Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 1, 1944, Serial No. 561,448
2 Claims. (Cl. 172—245)



1. A system for indicating the sign of the phase angle between a first voltage and a second voltage comprising four two-terminal rectifying devices connected in series, forming a closed circuit and being poled in the same direction in the closed circuit, a coil for applying a third voltage of lower frequency between the junction point of one pair of said rectifying devices and the junction point of the other pair of said rectifying devices, means for applying said first voltage between the mid-point of said coil and a junction between said pairs, means for applying said second voltage between said mid-point and the other junction between said pairs, a circuit comprising frequency demodulating means connected across said two latter junctions to produce a demodulator output voltage having said lower frequency, a phase-sensitive detector network having two input branches, and means for applying to one of said branches said demodulator output voltage and to said other branch a voltage which is approximately in quadrature with said third voltage and which is in phase with said voltage applied to said one branch when said phase angle between said first and second voltages has one sign and in phase opposition to said voltage applied to said one branch when said phase angle between said first and second voltages has the opposite sign.

2,530,529
CENSER
Leo R. Le Tang, Cincinnati, Ohio
Application August 30, 1948, Serial No. 46,771
8 Claims. (Cl. 21—116)



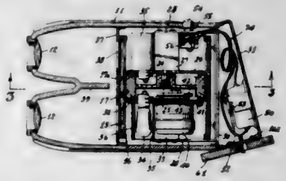
1. In a censer the combination of a hollow body with an open top and an opening in the bottom thereof, a ventilated dome-shaped cover having a pair of diametrically opposed external trunnions thereon adjacent its bottom journalled in said body adjacent the top edge of the latter whereby the cover is supported for rotational movement in one direction to an inverted position wholly within the body for uncovering the open top of said body and for reverse rotational movement to an upright position substantially wholly outside the body for covering the open top of said body, one of said cover trunnions being extended beyond the body and having an integral block adjacent said body presenting a flat face substantially in a plane with the top edge of the body when the cover is in an upright position outside the body, and a latch member axially shiftable on said trunnion and spring biased toward said body, said latch member including a flange slidably guiding on said flat face on the trunnion and precluding relative rotation of the latch member and trunnion, said flange arranged and adapted to slidably engage on the top edge of the body under the influence of said spring bias when the cover is in upright position on the body for releasably retaining the cover in said position, said latch member being manually retractable against the resistance of the spring bias for retracting said flange from the top edge of the body and permitting unitary manual rotation of the latch member and trunnion whereby the cover is moved to and from said inverted position wholly inside the body.

2,530,530
BUFFING AND POLISHING WHEEL
Frank W. Littlefield, Lynn, Mass.
Application October 29, 1947, Serial No. 782,823
1 Claim. (Cl. 51—195)

A polishing and buffing wheel comprised of a rigid revolvable member, of thermo-setting plastic material such as a phenol formaldehyde liquid casting resin, and a plurality of spirally-wound rolls of bias-cut fibrous material carried by said member each roll having a center portion in the form of the letter S and the S like portion

of all the rolls embedded in the thermosetting plastic material in proximity to its neighboring adjacent rolls and adapted to support the latter under the pressure of use.

2,530,531
STEREOSCOPIC PICTURE VIEWER
Clarence S. McClellan, Santa Monica, Calif.
Application March 13, 1946, Serial No. 653,997
2 Claims. (Cl. 88—31)

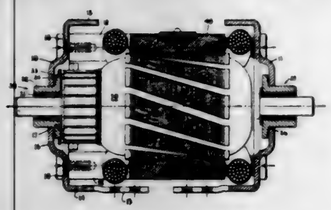


1. A stereoscopic picture viewer comprising a rotary hollow drum having a plurality of equally spaced detents arranged around the inner circumference of the wall thereof, means rotatably supporting said drum, means on said drum for fixedly supporting a plurality of pairs of stereo picture transparencies around the periphery thereof and with the surfaces of said transparencies extending at right angles to lines extending radially from the center of said drum, the transparencies of each said pair overhanging the opposite ends of said drum, an illustrating device adjacent each of the opposite ends of said drum for illuminating said transparencies from the rear, a toothed member, and means supporting said member within said drum for rotation about an axis extending parallel to and eccentrically of said drum wherein a tooth of said member engages one of said detents during rotation of said member whereby to intermittently rotate said drum.

2,530,532
MOTOR FRAME
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 15, 1944, Serial No. 545,040
8 Claims. (Cl. 308—22)

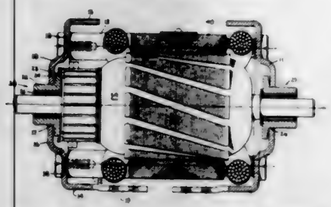
1. In a device having a shaft, a frame for supporting said shaft, said frame having two spaced apart plates with holes therein, a bearing press fitted into each of said holes and journalling said shaft, the thickness of said plates at each of said holes being less than half the length of the associated bearing, each of said bearings having a single flange engageable with the associated plate for limiting axial movement of said bearing in the associated hole in one direction only, said

flange being relieved adjacent the associated plate to prevent engagement of the portion of said flange near the periphery thereof with said



plate, said bearings being alignable coaxially with respect to each other and said shaft by application of force to said shaft transversely of its axis when assembled with said bearings.

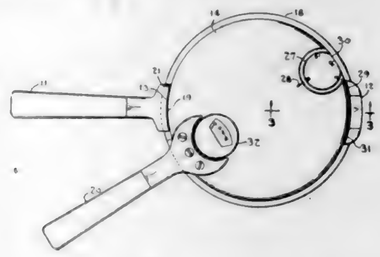
2,530,533
METHOD OF MAKING ELECTRIC MOTORS
John L. Moody, Oakland, Calif., assignor to Friden Calculating Machine Co. Inc., a corporation of California
Original application July 15, 1944, Serial No. 545,049. Divided and this application November 5, 1945, Serial No. 626,825
2 Claims. (Cl. 29—155.5)



1. A method of manufacturing a substantially rigid frame for a motor or the like, and assembling the frame with other motor parts, which consists in punching a bearing hole and a plurality of dowel holes in two pieces of sheet metal, employing the same tool for punching both pieces, forming said pieces into identical end frames by the same die, pressing bearings into the bearing holes, turning a plurality of identical dowel rods in a screw machine with dowel ends to fit said dowel holes and shoulders adjacent said dowel ends for engaging said end frames, assembling the parts with the armature supported in said bearings and the dowel ends of said rods in the dowel holes in said end frames to provide a substantially rigid frame structure, and applying force to said armature transversely of its axis to cause alignment of said bearings if they are out of alignment.

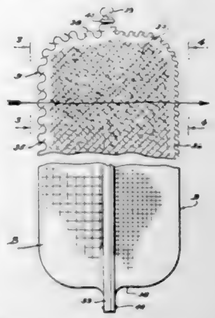
2,530,534
PRESSURE COOKER AND PRESSURE REGULATOR THEREFOR
Willard L. Morrison, Jr., West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application June 25, 1947, Serial No. 756,912
1 Claim. (Cl. 220—40)

A pressure cooker comprising a container, a cover for said container, means for locking said cover to said container which requires relative motion between said cover and said container from an unlocked position on said container to a locked position on said container including an elongated lug on said container and a laterally extending rim on said cover which in the locked position of said cover extends below said lug, an abutment carried by said lug and overlying said rim, and a revolvable pressure regulator on said cover and having a circumferential portion normally overlying said flange and being in abuttable



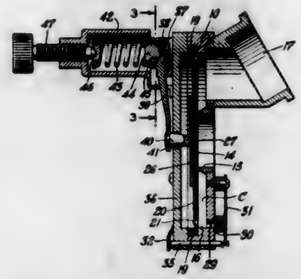
relationship with said abutment to prevent said cover from rotating from one to the other of said unlocked or locked positions, said regulator having an arcuate segment spaced from and nonabuttable with said lug when said regulator is in venting position whereby said cover may be relatively rotated with respect to said container when said regualtor is in venting position.

2,530,535
AIR HUMIDIFIER AND FILTER
Harold S. Mulhollen, Pasadena, Calif., assignor to Essick Manufacturing Company, Los Angeles, Calif., a corporation of California
Application September 25, 1948, Serial No. 51,182
2 Claims. (Cl. 183—10)



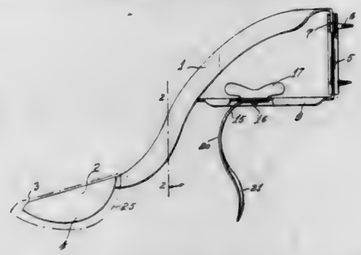
1. A pad for an evaporative cooler in which a case carries an air circulator and a water distributor including, a single flat body of excelsior for vertical disposition in the case where it receives water at its upper edge and conditions air passing through it from one of its sides to the other, and an envelope of porous moisture-retaining fabric confining the body and including a sheet at one side of the body for passage of air into the body and a sheet at the other side of the body for exhaust of air from the body, the sheets being joined together at the edges of the body, the last mentioned sheet being of substantially finer mesh than the first mentioned sheet to check the passage of airborne matter and insects from the pad.

2,530,536
MASK RELIEF VALVE FOR OXYGEN BREATHING SYSTEMS
Samuel R. Oldham, West Orange, Wilgot J. Jacobsson, Plainfield, and James A. Hoffman, Roselle, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application April 10, 1945, Serial No. 587,536
4 Claims. (Cl. 137—53)



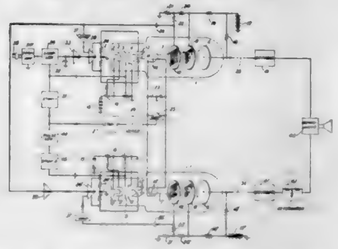
1. A relief valve for oxygen breathing masks comprising a relatively flat annular body having an inlet opening and an outlet opening for exhaust to the atmosphere, said openings being of the same diameter, one concentric with said annular body and having a rim forming a valve seat, the other being eccentric to said annular body, a relatively flat circular cover for said body, a valve comprising a thin rubber diaphragm clamped between said body and cover and directly engaging said seat, a backing plate extending over the greater part of the area of said diaphragm, a circular reinforcing and centering plate secured to the side of said backing plate away from said diaphragm, said plates having registering central apertures forming a bleed vent therethrough to discharge any air trapped behind the diaphragm; a spring for urging said backing plate toward said valve seat to contact said rubber disaphragm with said seat in closing position, said spring being constructed and arranged to permit opening of said valve in response to a pressure of a few centimeters of water, and said cover having means for venting the space in back of said valve to prevent pressure resistance to opening of said valve.

2,530,537
SHOE SUPPORT
William G. Persinger, Burbank, Calif.
Application December 11, 1948, Serial No. 64,890
3 Claims. (Cl. 12—128)



1. A shoe support mountable on a vertically disposed channeled surface, said shoe support comprising, a rigid downwardly and forwardly inclined shank terminating at the forward end thereof in a cap portion adapted to fit within and to engage the toe portions of a shoe, said shank being bent at the rear end thereof to form a pendent vertically disposed plate portion engaging the channel of said surface, the shank being bent at right angles at the bottom of said plate portion to form a horizontally extending brace the front end of which is anchored within the inclined portion of the shank, said horizontally extending brace having a longitudinally directed slot therein, a resilient heel engaging member being shaped at the top to ride on the underside of said horizontal brace portion and extending downward to a position of horizontal alignment with said toe engaging cap, and means rising from said member through said slot to maintain the member in longitudinally adjusted position on said brace portion.

2,530,538
VERNIER PULSE CODE COMMUNICATION SYSTEM
Alois J. Rack, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 18, 1948, Serial No. 66,119
10 Claims. (Cl. 178—43.5)

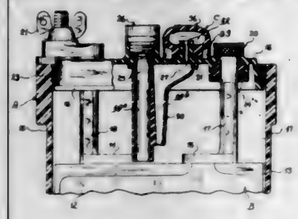


1. Signal translating apparatus which comprises an electron discharge device having means for projecting a focussed beam of electrons, means for deflecting said beam, a stabilizing electrode in the path of said beam, comprising a plurality of substantially similar elements narrowly spaced from one another and defining a plurality of similar passages for the beam between them, a source of an original signal to be transmitted, connections for applying the potential of said signal to said deflecting means, connections for feeding back to said deflecting means the potential of a current flowing by way of said beam to any of said elements, said apparatus giving rise to a net beam deflection potential which is a quantized counterpart of the original signal and to a feedback potential of said current which comprises an error signal which is representative of the difference between said original signal and its quantized counterpart, means for converting said quantized counterpart into a first transmission signal, and means for converting said error signal into a second transmission signal.

2,530,539
STORAGE BATTERY
Robert M. Raney, Euclid, and Victor J. Jones, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application April 12, 1947, Serial No. 741,008
4 Claims. (Cl. 136—177)

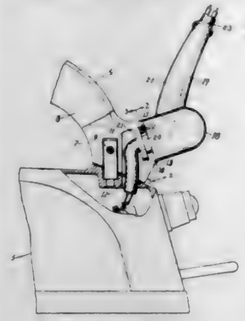
1. In a multiple cell battery of the liquid electrolyte type, a case divided into separate cell compartments, cover means for said cell compart-

ments, said cover means having a single venting opening and a separate filling opening therethrough for each cell compartment with the said openings for each cell adjacent each other, a movable imperforate member normally closing each of said filling openings, and a vent manifold extending over said venting openings exteriorly of said cover means and in communication with each of said venting openings thereby providing



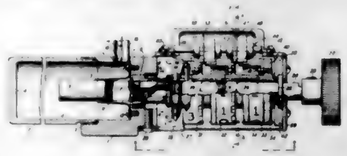
the only means of communication for the interior of said cells with the atmosphere, said manifold being flexible adjacent said venting openings so that portions of said manifold may be individually selectively distorted into a position closing the venting opening thereunder while adding liquid through the adjacent filling opening thereby controlling the filling of the cell whose venting opening is thus closed.

2,530,540
SWIVELED IRON CORD PROTECTOR
Ludwig Reichold, Simsbury, and Louis V. Lucia, West Hartford, Conn., assignors to The Silex Company, Hartford, Conn., a corporation of Connecticut
Application October 30, 1947, Serial No. 782,994
4 Claims. (Cl. 173—322)



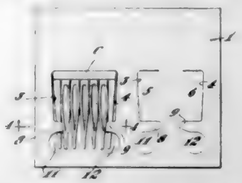
1. For an electric appliance, a grommet comprising a body having an axis about which it is adapted to rotate, a stem projecting from said body on said axis and adapted to extend through and rotate within an opening in said appliance, a sleeve portion extending outwardly from the side of said body and having a passage therein which communicates with the interior of said appliance through the said body and stem for containing an electric cord attached to the appliance, means on said stem for retaining it within the said opening, and stop means on the said stem cooperating with stop means on the appliance for relatively positioning the said sleeve portion for either right or lefthand use of the appliance; the said sleeve portion being carried through a substantially vertical arc upon rotation of said body.

2,530,541
WAVE METER
Walter L. Roth, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 27, 1944, Serial No. 546,824
4 Claims. (Cl. 178—44)



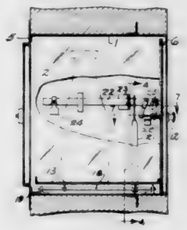
1 In combination, a resonator comprising a substantially closed cylindrical resonance chamber, a tuning rod mounted by a screw-thread support on one end of the chamber in coaxial relation therewith to permit projecting the rod into and retracting it from the space within the chamber, said rod being longitudinally slotted, an actuator mounted rotatably on the exterior of said chamber in axial alignment with said rod, a position indicator for portraying the position of said rod in said chamber, means utilizing said slot for mechanically connecting said actuator to said rod, said mechanical connecting means comprising a screwdriver-shaped blade connected to said actuator and projecting within said slot whereby rotation of the actuator propels the tuning rod in an axial direction, and means utilizing said same slot for compliantly coupling said position indicator to said rod, said compliant coupling means comprising a sleeve coaxial with said rod and connected to said indicator, a pair of pins loosely projected in said slot in engagement with said sleeve causing said sleeve to rotate coaxially with said rod while allowing relative axial movement between said rod and said sleeve as said rod is projected into and out of said chamber.

2,530,542
HOLDER FOR COMBS
Lester T. Sawyer, Leominster, Mass.
Application August 8, 1946, Serial No. 689,294
1 Claim. (Cl. 206—79)



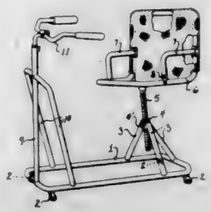
An article of manufacture comprising in combination a rectangular-shaped comb of concavo-convex contour, and a holder consisting of a sheet of flexible material formed with spaced slits shaped and arranged to define the corner portions of a generally rectangular area approximating the size of said comb, said corner portions being bent into offset position relative to the surrounding parts of said holder to provide recesses receiving the corner portions of said comb, the intermediate portions of said slits extending toward each other and transversely of the end teeth of said comb to provide holding tabs bent into interlocking relation with the end teeth of said comb to hold it firmly in position within said area and with its corner portions within said recesses.

2,530,543
LATCH STRUCTURE FOR MERCHANDISE RECEPTACLES
William A. Schneeman, Webster Groves, Mo.
Application February 20, 1948, Serial No. 9,827
4 Claims. (Cl. 232—43.4)



4. A merchandise receptacle of the class described, including a body having a door, a floor hinged to said body, a bar pivoted to said body and having an element spaced from its pivot for supporting the floor, a lever fulcrumed to said body, a link connecting said bar and one arm of said lever, a latch carried by said lever arm and including a vertically disposed pin, a catch on said body apertured to receive said pin, a strut depending from said lever arm adjacent said latch, a shelf for engaging the lower end of said strut as said latch pin is lowered, and a member projecting inwardly of the body from said door and disposed to dislodge said strut from said shelf as the door is closed, and an aperture in said member to receive said latch pin when said strut is dislodged.

2,530,544
WALKING CHAIR FOR INVALIDS
Otto R. Schwantes, Milwaukee, Wis.
Application March 9, 1949, Serial No. 80,351
1 Claim. (Cl. 155—24)

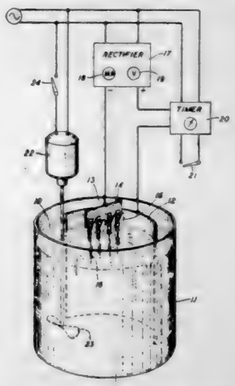


An invalid chair comprising a tubular rectangular floor frame, caster wheels secured to the frame corners, a threaded sleeve, a supporting bracket for the sleeve having downwardly inclined struts connecting the sides and rear stretches of the frame, a seat having a threaded spindle mounted in the sleeve, a vertically positioned steering tube extending upwardly from the front stretch of said frame, the same having an obliquely disposed U shaped brace connecting the upper end of the steering tube and side stretches of said frame, and an adjustable handle bar socketed in the steering tube.

2,530,545
HARDENABLE CAST IRON
Frederick G. Sefing, Cranford, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 6, 1949, Serial No. 109,075
8 Claims. (Cl. 75—125)

5. As a new article of manufacture, an alloy gray cast iron casting containing about 2.5% to about 3% carbon, about 7.5% to about 9% nickel, about 3.5% to about 4% copper, about 2% to about 2.5% chromium, about 1.75% to about 2.25% silicon, up to about 0.8% manganese, and the balance essentially iron, said casting being characterized by a low machinable hardness at least after a heating to a temperature of about 1600° F. to about 1800° F., followed by a rapid cooling to a temperature below about 900° F., but not substantially below atmospheric temperature; and being characterized by a high hardness of about 525 Brinell after a subsequent thermal treatment at about 1000° to about 1050° F. for about 8 to about 15 hours.

2,530,546
ELECTROPHORETIC DEPOSITION OF INSULATING COATING
James M. Snyder, Long Island City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 8, 1946, Serial No. 675,345
4 Claims. (Cl. 204—181)

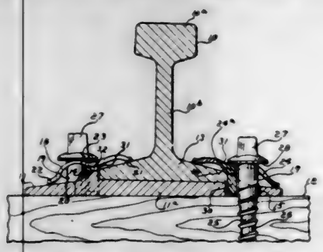


1. The method of applying an insulating coating to a metallic base by electrophoresis which comprises, immersing said base in an electrolyte suspension of inert aluminum oxide, water, alcohol and purified aluminum hydroxide, and depositing the solids from said suspension on said base under a low potential.

2,530,547
SAFETY RAIL FASTENING
Jacob Rush Snyder, Cleveland, Ohio
Application June 29, 1945, Serial No. 602,189
11 Claims. (Cl. 238—349)

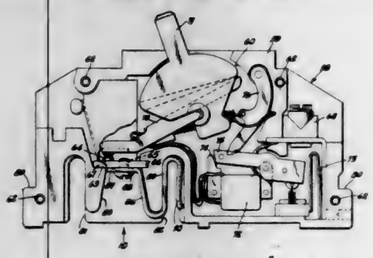
1. In a rail fastening of the type embodying a resilient plate overlapping a flange of the rail and an adjustable fastener extending through an opening of the plate, and having a head or the like engaging the top of said plate, a rail guard comprising a spacer for limiting the flexing of said plate by the fastener, said rail guard extend-

ing through the opening of the plate so as to be clampingly engaged directly by the head of the fastener and having a holding portion overlying



said rail flange, said opening of the plate permitting flexing of said plate without interference by said rail guard.

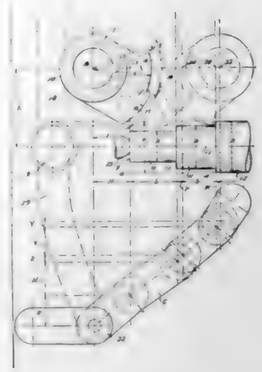
2,530,548
ELECTRICAL PANEL BOARD SWITCH
Zina Roy Stanley, Monterey Park, Calif., assignor to Zinsco Electrical Products, Los Angeles, Calif.
Application May 31, 1946, Serial No. 673,339
2 Claims. (Cl. 175—369)



2. In a circuit breaker assembly, the combination of: a supporting member; a pair of bus bars parallel to each other, said bus bars being carried on, but electrically insulated from, said supporting member; a first member; a second member having means by which a supply conductor can be electrically connected thereto; bridging means by which the first member can be electrically connected to and disconnected from said second member; a frame on said supporting member for supporting said first member and said second member in rigid spaced relationship with each other, said bridging means being carried in said frame; and a clip secured to said first member by means having an axis passing midway between said bus bars, said clip being so secured to said first member by said means that it can be reversed about said axis to engage either of said bus bars and thus form an electrical connection between the bus bar so engaged and said first member.

2,530,549
METHOD OF MANUFACTURING CUTTERS
Otis E. Staples, Euclid, Ohio, assignor to The Cleveland Hobbing Machine Company, Cleveland, Ohio, a corporation of Ohio
Continuation of application Serial No. 503,373, September 22, 1943. This application April 22, 1947, Serial No. 743,055
7 Claims. (Cl. 76—101)

7. The method of forming a cutter tool for a machine tool comprising: providing a substantially cylindrically-shaped tool blank; forming an arcuately shaped cutting surface on said blank having a radius of a value determined from the finished diameter of the work to be cut thereby and the mode fo operation of the tool; forming a second arcuately shaped cutting surface on said tool blank having a radius differing from the radius of the first-mentioned cutting surface by an amount approximately equal to one-half the difference between the diameters of the work to be turned by the two surfaces; providing the arcuately shaped cutting surfaces with top rake having an angle determined from the mode of operation of the tool; and forming a shoulder



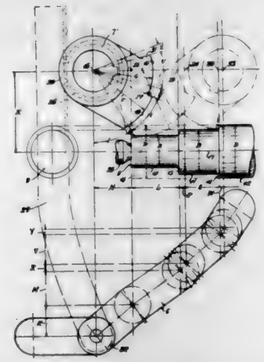
cutting surface on the portion of the tool blank uniting the two arcuately shaped cutting surfaces by removing material therefrom by relative movement between the blank and a material removing means supported to effect material removal in a path inclined to the axis of rotation of the tool blank at an angle substantially equal to the desired clearance angle of the shoulder cutting surface and at an angle z with the radial line through the intersection of the shoulder cutting edge with the arcuately shaped cutting surface of greater radius, where

Tan z=tan c' tan n'
c'=the top rake angle
n'=the side clearance angle.

2,530,550
CUTTER
Otis E. Staples, Euclid, Ohio, assignor to The Cleveland Hobbing Machine Company, Euclid, Ohio, a corporation of Ohio
Original application April 22, 1947, Serial No. 743,055, which is a continuation of application Serial No. 503,373, September 22, 1943. Divided and this application July 14, 1948, Serial No. 38,571
5 Claims. (Cl. 29—105)

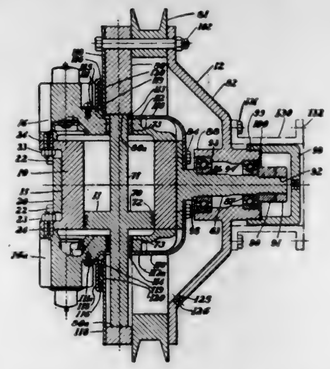
1. A tool or cutter adapted to be rotated about an axis for forming an article having portions of different diameters connected by shoulders, said tool comprising radially offset cylindrical surfaces having arcuately-shaped cutting edges at their upper ends forming a portion of the circumference of the tool, the said arcuately-shaped cutting edges each being provided with top rake of a selected angle, and a shoulder cutting edge

at the upper end of a generally plane surface inclined to the axis of rotation of the tool at an



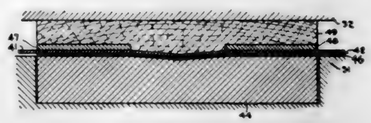
angle equal to the desired clearance angle connecting adjacent arcuate cutting edges.

2,530,551
COMPRESSOR
Orley R. Stephenson and Alford H. Stephenson, Oakland, Calif.; Beth N. Stephenson, sole heir of said Alford H. Stephenson, deceased, assignor to said Orley R. Stephenson
Application January 15, 1945, Serial No. 572,761
10 Claims. (Cl. 230—188)



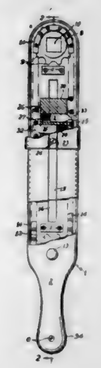
1. In a rotary compressor adapted to be driven by a suitable source of power, a stationary assembly comprising a double acting cylinder having a pair of cylinder heads each of which accommodates a suitable valve mechanism, a reciprocating assembly comprising a piston and a piston rod having two external ends projecting from said cylinder heads and adapted to reciprocate with respect to said stationary assembly, and a rotating assembly mounted for rotation with respect to and about said stationary assembly and comprising a cam and adapted to be connected to said source of power whereby said cam may be rotated, both of said external ends of said piston rod adapted to cooperate with said cam whereby rotation of said rotating assembly causes reciprocation of said reciprocating assembly.

2,530,552
SOLDERING METHOD FOR POSITIONING STRIP MATERIAL
William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application January 8, 1946, Serial No. 639,868
8 Claims. (Cl. 113—59)



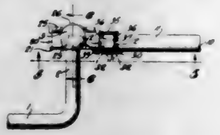
2. Method of holding opposed edges of sheet metal in place for an electrolytic welding operation, which comprises soldering both edges under pressure to a single relatively rigid piece of metal with wire cloth interposed between the rigid metal and the sheets, said pressure being applied while the solder is in a molten condition and being sufficient in intensity to squeeze out substantially all solder from between the knuckles of the wire cloth and the adjacent metal surfaces.

2,530,553
CHAIN-DRIVEN RATCHET WRENCH
John D. Strobell, New Haven, Conn.
Application October 2, 1947, Serial No. 777,523
3 Claims. (Cl. 81—57)



1. An improved socket wrench which comprises a handle, a turning head mounted on the handle, a sprocket on said head, an endless chain engaging the sprocket and mounted in the handle, a hand operable shuttle mounted in the handle, at least two pawls in the shuttle urged outwardly in opposite directions by springs, each pawl having a beveled surface facing oppositely from the bevel surface of the other pawl, said pawls being arranged to be inserted between the rollers of the chain by action of the springs, said shuttle being reciprocable to run the chain continuously in one direction by alternate driving engagement of the pawls with links of the chain, and engaging means on both sides of the turning head to run a nut in both directions by turning the wrench over.

2,530,554
ROD JOINT OR CONNECTION
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 19, 1949, Serial No. 88,469
11 Claims. (Cl. 287—90)



3. A connection comprising a first member having a ball head, a second member having a transverse wall thereon, and a connecting device comprising a sheet metal body bent to provide a base portion having a socket comprising a pair of resilient tongues in engagement with said ball head, and another base portion having a spring arm cooperating therewith to clasp said second member in secured relation and a shoulder in abutting relation to said transverse wall on said second member.

2,530,555
SIMULATED RACING APPARATUS
Max Tobin and Frank J. Rogers, New York, N. Y.
Application May 29, 1947, Serial No. 751,336
1 Claim. (Cl. 273—86)

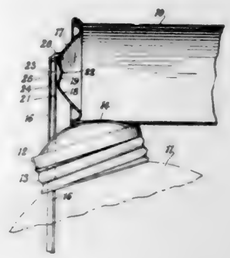
A game of the character described comprising, an elongated sheet metal base formed with a plurality of spaced, parallel depressed grooves extending longitudinally of the base, means for holding one end of the base in an elevated position, said means consisting of a plate having parts extending vertically above and below the base, slotted side flanges on said plate, the slots in said side flanges being in engagement with the end of the base, the opposite end of the base being provided with a flange extending over and covering the tops of the grooves for a portion of the length of said grooves, a game-piece for slidable movement in each groove, such game-piece having a bottom extension fitting into its groove, a ball in each groove adapted for propelling movement therein to impinge against the bottom extension of the game-piece located in the groove, a plunger in each groove at the end of the base member remote from the base-elevating means, said plungers being located below the flange at said end of the base member, each plunger being operative in a single groove only to impinge against and propel the ball located therein.

2,530,556
SUPPORT AND CORD ASSEMBLY FOR HAND TELEPHONES
William G. Turnbull, Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 26, 1947, Serial No. 744,179
4 Claims. (Cl. 179—103)

1. A hand telephone comprising a handle having a cavity therein and having also an aperture therein communicating with said cavity, a telephone cord extending through said aperture and having an enlarged portion adapted to engage an inner wall portion of the handle adjacent the inner end of said aperture, a support fitted within said cavity and having a portion for engaging said enlarged portion and locking it against said

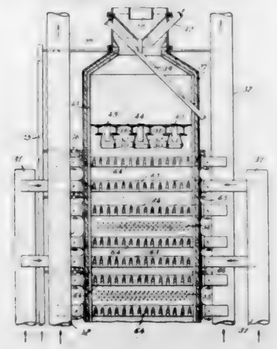
inner wall portion, said support having thereon contacts and mounting terminals for said contacts to which conductors of said cord are connected, a telephone instrument seated upon said support and having contacts engaging said first contacts, and means affixed to said handle and bearing against said instrument to lock said instrument and support on said cavity.

2,530,557
SPRAYER
William Martin Vogel, Montclair, N. J.
Application November 13, 1946, Serial No. 709,585
2 Claims. (Cl. 299—88)



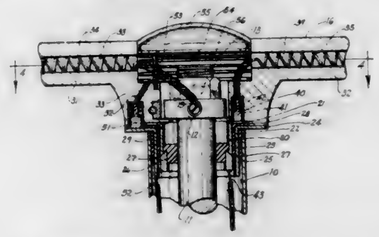
2. In a sprayer of the character described, a pump cylinder having an end wall, a siphon tube having an end portion disposed across said end wall, the end wall having a hole, the tube having aligned holes in its walls disposed in alignment with the hole in the end wall and with at least the hole in the front wall of said tube larger than the hole in the end wall, the tube being attached to the end wall and closed at its upper end, said tube being characterized by a flat surfaced rear wall disposed toward the end wall of the cylinder and a front wall of substantially semi-cylindrical shape.

2,530,558
GAS-SOLID CONTACT APPARATUS
Kenneth M. Watson, Madison, Wis., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application November 15, 1945, Serial No. 628,798
2 Claims. (Cl. 23—288)



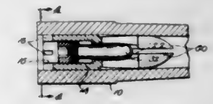
1. The combination in a vertical shaft reaction vessel of square cross section provided with a port for introduction of a granular solid at its upper end and a port for discharge of the granular solid at its lower end, of a horizontal plate in the upper portion of the vessel for receiving the granular solid admitted through the first port, a plurality of tubes depending from the plate for distributing the granular solid across the vessel, means associated with the tubes for smoothing and squaring the flow of the granular solid from the tubes, such means comprising, centered below each tube, a box-like element of greater width than depth the sides of which define a square of greater area than the cross-sectional area of the tube, said box-like element being open at the top and bottom and being of such size and so positioned relative to the tube that the flow of the granular solid therethrough is substantially arrested at all points except at the corners, and a vertical series of horizontally disposed apertured baffles in the lower part of the vessel above the discharge port.

2,530,559
HEATED STEERING WHEEL FOR AUTOMOBILES
Sylvester V. Wilson, Indianapolis, Ind.
Application September 2, 1949, Serial No. 113,723
3 Claims. (Cl. 219—19)



1. A steering wheel for automobiles, airplanes or other mobile vehicles having a similar steering device, having a rim connected to a hub by a pair of spokes, each spoke being provided with a passage leading from the rim to the hub, the upper portion of the rim between the outer ends of the spokes being provided with a substantially semi-circular passage having the ends thereof leading into adjacent ends of the passages in the spokes, an electric resistance wire in the passage in the rim with the ends of said wire projecting through the adjacently disposed spokes and into the hub, one end of the wire being grounded on the usual steering wheel hub, a sleeve within the hub, an annular flange fixed to the upper end of the sleeve and supported by the steering column for retaining the sleeve in position, said sleeve and flange being insulated from said column, a contact pin in the hub, a spring retaining the pin in engagement with the flange, the other end of the resistance wire being connected to the pin, and a wire connecting the sleeve with a source of current.

2,530,560
SAFETY LOCK FOR FIREARMS
Charles A. Young, Gloucester, Mass.
Application July 5, 1947, Serial No. 759,078
4 Claims. (Cl. 42—70)



1. Safety lock for fireman comprising a sleeve, a plug threaded in the sleeve, a plurality of relatively flexible segments formed in one end of the sleeve and so shaped that the plug may be axially translated to exert a thrust radially against the segments, and soft metal caps secured to the outer ends of said segments.

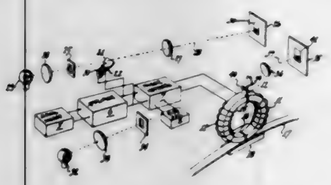
2,530,561
DETHIOLIZING OF HYDROCARBONS BY MEANS OF ETHYLENE OXIDE
George B. Arnold, Glenham, and Howard V. Hess, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application June 10, 1948, Serial No. 32,278
4 Claims. (Cl. 196—24)

1. The method of dethiolizing sour light hydrocarbons of the nature of normally gaseous hydrocarbons, gasoline and kerosene that comprises contacting the hydrocarbons with ethylene oxide at a temperature of the order of 150–250° F. to effect reaction between the ethylene oxide and mercaptans to form condensation products higher boiling than the hydrocarbons and subjecting the products of reaction to fractional distillation to separate the treated hydrocarbons from the condensation products.

2,530,562
MONITORING SYSTEM FOR MAGNETIC RECORDING
Dorothy L. Blaney, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1948, Serial No. 36,046
5 Claims. (Cl. 179—100.2)

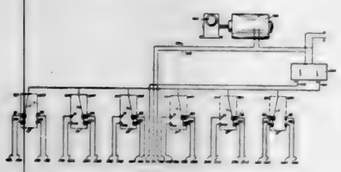
1. In a magnetic sound recording system, a signal source, a recording head having a recording gap and a second gap diametrically opposite said recording gap, an amplification channel

connected between said signal source and said head, an armature having one end in said last mentioned gap, a source of light, means for forming light from said source into a beam, an observation medium, means for simultaneously varying the magnetism in said gaps produced by said signal, the end of said armature moving in



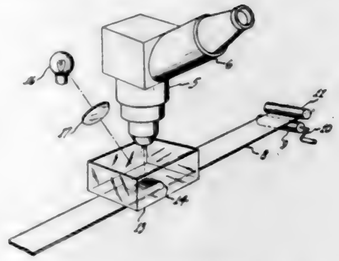
the gap in which it is positioned in accordance with the variations in magnetism in said gaps, means for directing said beam of light to said observation medium, and means whereby the other end of said armature varies said light beam in accordance with the variation in magnetism in said recording gap caused by said signal.

2,530,563
AUTOMATIC CONTROL FOR HEATING SYSTEMS
Harry Baxter, Garrettsville, and John L. Markis, Bristolville, Ohio
Application August 19, 1947, Serial No. 769,478
5 Claims. (Cl. 236—1)



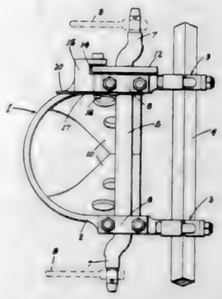
2. In combination with a multiple zone heating system of the type having a source of heated fluid and radiators located in each of the said zones and also having a thermostat for each zone, a control apparatus comprising an annular manifold positioned between the said source and radiators and having an intake connected to the said source and having a plurality of radially spaced ports connected to the said radiators, each of the said ports having a disk valve therein, each of the said valves having a disk cam thereon, all of the said cams lying in the same plane; a revolvable shaft mounted on the manifold and having an arm hingedly mounted thereon extending radially therefrom and movable therewith on the plane of the cams when in a first position and movable therewith off the plane of the cams when in a second position, the said arm being capable of engaging and turning any of the said cams when in the first position, thereby opening or closing the engaged cam valve; an electrically operated means connected to the said arm and capable of moving it to either its first or second position; and a control circuit connected to each of the aforesaid thermostats and also connected to the electrically operated means whereby a valve will be opened or closed regulating the flow of heated fluid through a radiator in the zone of the controlling thermostat.

2,530,564
EDITING AND INSPECTION OF INVISIBLE SOUND TRACKS
Dorothy L. Blaney, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1948, Serial No. 36,047
2 Claims. (Cl. 178—100.2)



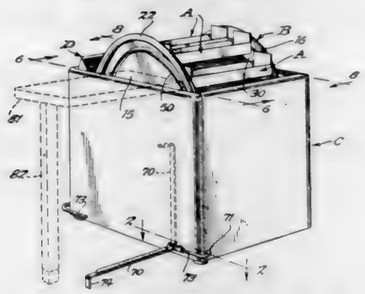
2. A system for making visible the waveform and position of certain magnetic variations in a flat magnetic record medium on which an invisible magnetic sound record has been recorded, comprising a container, a plurality of magnetic particles of a size small as compared with the shortest length of the sound variations recorded on said record and loosely positioned in said container, and means for moving said particles with respect to and adjacent said record medium to render visible the form and position of said magnetic variations in said medium.

2,530,565
TOOL BAR MOUNT
Elmer G. Briscoe, Fresno, Calif.
Application May 9, 1947, Serial No. 747,065
3 Claims. (Cl. 97—47)



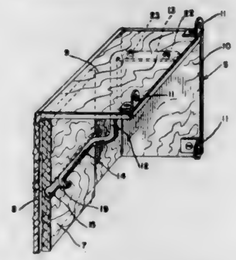
1. In an adjustable tool bar mount which includes a tool carrying frame and an adjustment shaft rotatably mounted in the frame and on which shaft are end cranks disposed at different circumferential positions with respect to the shaft; a means for selectively locking the shaft against rotation in any adjusted position, such means comprising a disc fixed to the shaft coaxially therewith and at a point adjacent the frame, the disc being provided with a circumferential row of holes disposed transversely through the disc, the frame being provided with a hole so disposed that any one of the holes in the disc may be selectively brought into alinement with the hole in the frame, and a pin adapted to be projected through the alined holes.

2,530,566
FILING DEVICE
Floyd H. Clark, Douglaston, and Bengt M. Hager and Oscar J. Larson, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application May 1, 1946, Serial No. 666,334
13 Claims. (Cl. 45—3)



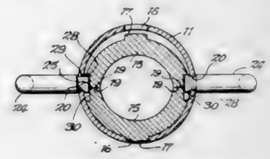
1. A filing device comprising a file case having a top opening, a rotatable carrier having opposite circular end members and mounted to rotate in said case about an approximately horizontal axis with the upper portions of said end members protruding out of said top opening of the case, file holders extending between and swingably mounted on said carrier end members at spaced points about the axis of the carrier to rotate with the carrier and to swing relatively thereto in the rotation of the carrier for maintaining the file holders upright in the rotation of the carrier, a circular hand rail on one of said end members adjacent its periphery for rotating said carrier, an annular ring secured to said carrier concentrically to its axis of rotation, brake means operable against and away from said ring for releasably holding said carrier from rotation, a spring for pressing said brake means against said ring, a foot treadle located adjacent the side of said case adjacent to which said hand rail is located and operatively connected to said brake means and operable to move said brake means against the action of said spring to release said carrier for rotation by means of said hand rail.

2,530,567
ADJUSTABLE CORNICE FOR DRAPERIES AND THE LIKE
Norman Cline, Chicago, Ill.
Application November 16, 1949, Serial No. 127,604
4 Claims. (Cl. 160—21)



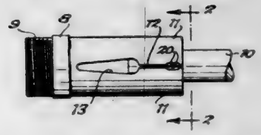
1. Adjustable window cornice means comprising a pair of end cornice elements, a central panel element provided with a longitudinal groove on the interior thereof, and resilient panel supporting bracket means secured interiorly of the said end cornice elements and provided with a resilient offset panel engaging portion slidably fitted to the said longitudinal groove.

2,530,568
FEED CHUCK
Anthony J. Daddona, Elmira, N. Y., assignor to Hardinge Brothers, Inc., Elmira, N. Y.
Application July 17, 1946, Serial No. 684,390
3 Claims. (Cl. 279—51)



2. The combination of a feed chuck having a plurality of spring fingers anchored at one end and free at their outer ends, said spring fingers being separated from each other by slots extending lengthwise from said free ends, work engaging pads removably fitting the inner faces of the free end portions of said fingers, each slot having an enlargement in width in a portion past which the pads extend and spaced from the free open end of the slot by an unenlarged portion, each of said pads being provided on its outer curved surface adjacent to its edge portions with recesses extending lengthwise from the inner ends of said pads to and along said enlargements of said slots to form spaces between said spring fingers and said pads, whereby an implement for spreading apart said free ends of said spring fingers and including a shoulder and a T-shaped flat key formed on the end thereof and extending beyond said shoulder, may be inserted in a direction radial to said feed chuck into said enlargement of said slot with the flat faces thereof extending substantially parallel with said slot, said implement when turned through approximately 90 degrees causing said key portion to spread said fingers apart and causing the head of the T-shaped portion to enter into said spaces formed by said recesses in said pads, said head of said key portion being retained in said spaces against movement both lengthwise of said slot and radially of said feed chuck.

2,530,569
MEANS FOR SEPARATING THE SPRING FINGERS OF FEED CHUCKS
Anthony J. Daddona, Elmira, N. Y., assignor to Hardinge Brothers, Inc., Elmira, N. Y.
Application November 27, 1948, Serial No. 62,348
3 Claims. (Cl. 279—41)



3. The combination of a feed chuck having a plurality of spring fingers anchored at one end and free at their outer ends, said spring fingers being separated from each other by slots extending lengthwise from said free ends, work engag-

ing pads removably fitting the inner faces of the free end portions of said fingers, each slot having an enlargement in width in a portion past which the pads extend and spaced from the free open end of the slot by an unenlarged portion, said spring fingers at the enlarged portions of said slots being provided on their inner faces with recesses forming spaces between said spring fingers and said pads, whereby an implement for spreading apart said free ends of said spring fingers and including a shoulder and a T-shaped flat key formed on the end thereof and extending beyond said shoulder, may be inserted in a direction radial to said feed chuck into said enlargement of said slot with the flat faces thereof extending substantially parallel with said slot, said implement when turned through approximately 90 degrees causing said key portion to spread said fingers apart and causing the head of the T-shaped portion to enter into said recesses of adjacent fingers, said recesses of said enlargement confining said head of said key portion against movement both lengthwise of said slot and radially of said feed chuck.

2,530,570

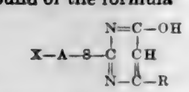
PYRIMIDYLMERCAPTO-CARBOXYLIC ACIDS AND DERIVATIVES THEREOF

Jean Druey, Riehen, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application December 3, 1947, Serial No. 789,552. In Switzerland December 9, 1946

6 Claims. (Cl. 260—251)

1. A compound of the formula



wherein X represents a member of the group consisting of free carboxylic acid and salts, esters and amides thereof, A represents an alkylene radical containing 1 to 4 carbon atoms, and R stands for a member selected from the group consisting of alkyl with 2 to 4 carbon atoms and benzyl.

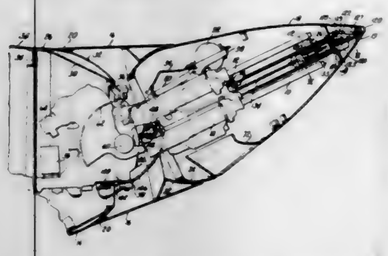
2,530,571

ARTICULATED FAIRING

Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Original application May 10, 1948, Serial No. 26,116. Divided and this application February 23, 1949, Serial No. 77,810

4 Claims. (Cl. 89—37.5)



1. In an airplane having an opening in its wall, a gun pivotally supported to project through said opening, a sheath covering the gun and surrounding said opening, said sheath comprising sections articulated with respect to one another to permit the gun to be laid, means for drawing in the outer section toward the plane, and means for decreasing the force with which said outer section is drawn in as such section is moved away from a mid position.

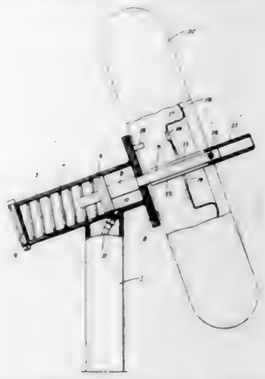
2,530,572

WHEEL SUPPORT WITH POWER ACTUATED CLAMPING MEANS

Jesse F. Eckles, Porterville, Calif.

Application May 20, 1946, Serial No. 671,010

1 Claim. (Cl. 144—288)



A wheel holder comprising a support, a cylinder, a face plate fixed to one end of the cylinder, a piston movable in said cylinder, means to effect movement of said piston, a piston rod on the piston and projecting through the face plate, a cross pin on the rod adjacent its outer end, a clamping block having a bore at one end to slidingly fit the outer end of the rod, the opposite end of the block being forked, the legs of the forked portion being longitudinally slotted, said pin projecting into said slots, the slots being of a length to project beyond the plane of the inner end of the bore whereby when the rod is projected into the bore the pin will be effective to lock the bar and rod in axial alinement with each other.

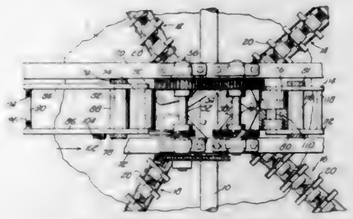
2,530,573

MACHINE FOR PERFORMING PUTTING-OUT OR ANALOGOUS OPERATIONS ON HIDES OR SKINS

David Edgar, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application March 23, 1949, Serial No. 82,984

11 Claims. (Cl. 69—46)



1. In a machine for treating sheet material, a frame, a work-feeding means on said frame having a supporting surface for a work piece to be treated, means for moving said surface substantially horizontally and in a given direction beneath a work treatment zone, tools mounted on said frame to impart a spreading effect on said work piece from a central portion of said zone, and an absorbent roller arranged directly in front of said central portion yieldingly to contact said work piece and resist bodily displacement of the work piece from the line of feed.

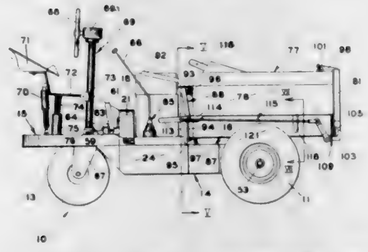
2,530,574

MATERIAL CONVEYING AND DUMPING VEHICLE

Heman E. Getman, South Haven, Mich., assignor to Getman Brothers, South Haven, Mich., a partnership

Application April 16, 1948, Serial No. 21,394

1 Claim. (Cl. 298—17)



In a dump truck a combination positively limiting the pivotal movement of the dump box and at the same time effecting the braking of the wheels of said truck comprising: a frame having a platform thereon and a pair of spaced, co-axial wheels secured thereto; a dump box having sidewalls, end walls and a bottom; a shaft transversely and rotatably secured to said bottom adjacent to one end wall for pivotably supporting said dump box upon said platform near one end thereof; a pair of horizontally, co-axial, L-shaped bumpers secured to said side walls in a plane perpendicular to said side walls and extending from the said side walls and intersecting the rotational planes of said wheels, said bumpers being spaced from the peripheries of said wheels when said dump box is in a horizontal position and said bumpers being engaged by said wheels when said dump box is in a tilted position whereby pivotal movement of said dump box effecting such tilting is positively limited and braking of said wheels is effected.

2,530,575

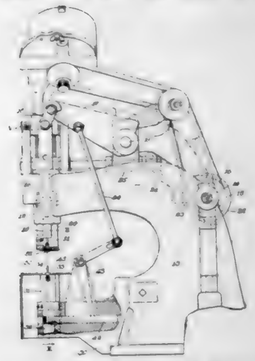
EYELETING MACHINE

Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 11, 1946, Serial No. 669,130

1 Claim. (Cl. 153—1)

An eyeleting machine comprising a bed, an anvil supported thereby and rotatable about its vertical axis, the anvil having an annular upsetting shoulder and an upstanding pilot concentric with said axis for guiding an eyelet thereto, an eyelet-setting tool arranged to cooperate with the anvil, power-operated means for moving said tool toward and from the anvil, a member movable in the bed for oscillating the anvil about said axis, direct mechanical connections between the member and said means for so oscillating the anvil in time relation to the tool movements, a finger on said anvil spaced from said pilot to accommodate a wire between said finger and said pilot, said finger being depressible into the anvil and arranged to project therefrom into the path of said tool,



and means normally urging said finger into said path, said finger being arranged to wrap a wire around the pilot upon rotation of said anvil and to recede from said path when depressed by said tool.

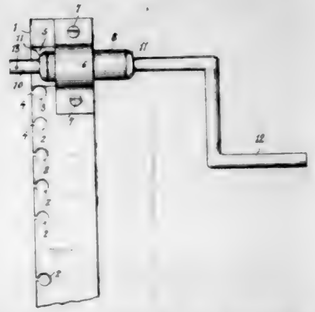
2,530,576

SPRING WINDING DEVICE

Eli E. Gregory, Lewisport, Ky.

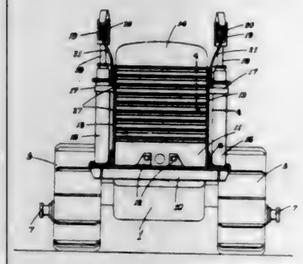
Application January 15, 1948, Serial No. 2,509

2 Claims. (Cl. 140—124)



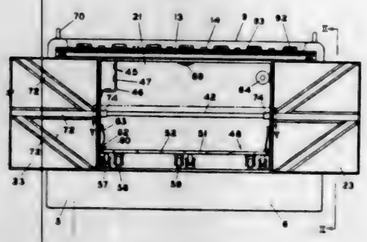
1. A device for winding coil springs comprising, an elongated plate formed with a transversely extending recess, a bushing fitted in said recess and adjustable axially within the recess to cause one end of the bushing to be positioned adjacent to one edge of the plate, a clamp fitted over the bushing and co-operating with the recessed portion of the plate for fixedly holding the bushing in any selected position of adjustment, the bushing having a longitudinally extending axial passage constituting a bearing for a mandrel rotatively and axially movable through said passage, the plate being provided near one edge with a plurality of openings through at least some of which a wire is extended to reach and be wound about the mandrel upon rotative movement of the mandrel within the bushing, the bushing being provided with a tapered end adapted for positioning near the apertured edge of the plate and operative against the wire between the apertures and the mandrel to thereby deflect the wire to a selected angle according to the position of said tapered end relative to the apertures while the mandrel is being rotated.

2,530,577
FRONT END IMPLEMENT SUPPORTING AND ADJUSTING MECHANISM
Albert G. Gurries, Gilroy, Calif., assignor to Be-Ge Manufacturing Co., Gilroy, Calif., a corporation of California
Application April 9, 1945, Serial No. 587,276
1 Claim. (Cl. 254—139.1)



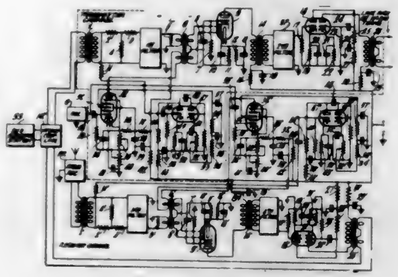
In a machine of the class described, a tractor, a hoist means on the tractor, said hoist means consisting of a cross beam secured to the forward end of the tractor frame and projecting to each side thereof to form a supporting base outwardly from each side of such tractor frame, an upstanding plate on each such base positioned closely adjacent to each side of the radiator frame of the tractor, an upstanding hydraulic cylinder anchored to each base and clamped to one of said plates adjacent its upper end, a piston rod projecting vertically from each cylinder, a sheave fixed to the top of each cylinder, and a cable extending over each sheave, one end of each cable being anchored to the tractor frame, and means to admit fluid pressure to each cylinder.

2,530,578
BODY FOR PLUMBERS' TRUCKS
Norbert C. Hotop, Kalamazoo, Mich.
Application May 11, 1948, Serial No. 26,342
2 Claims. (Cl. 296—24)



1. In a truck body adapted to provide a portable workbench, the combination comprising: means providing a central chamber having a floor, a closed forward end and an open rearward end; a first plurality of upwardly extending rotatable members mounted on said floor adjacent said rearward end of said chamber and equally spaced laterally of said chamber; a platform having a forward end and a rearward end removably received within said chamber and supported by said first plurality of rotatable members; a second plurality of downwardly extending rotatable members mounted on the forward end of said platform and rotatably engaging said floor, said rotatable members spaced to pass between said first plurality of rotatable members as said platform is moved longitudinally of said truck; rigid guide strips within said chamber slidably engaging the upper surface of said platform; said platform adapted in one position to be entirely received into said chamber and in another position to have its rearward end extend a substantial portion of said platform's length from said chamber; a detachable post of adjustable length associated with the rearward end of said platform when said platform is in extended position; detachable means for preventing extension of said platform when said platform is fully received into said chamber.

2,530,579
SPEECH INVERTER
Ladislao Körös, Buenos Aires, Argentina, assignor to Radio Corporation of America, a corporation of Delaware
Application October 15, 1946, Serial No. 703,435
3 Claims. (Cl. 179—1.5)

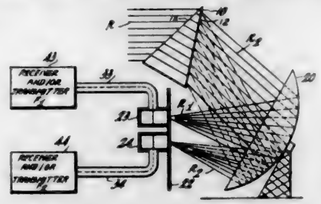


1. In a speech inverter having an input to which speech signals are applied: an attenuator coupled to said input for attenuating said signals; a filter coupled to the output of said attenuator; a modulator coupled to the output of said filter receptive of carrier energy and of filtered attenuated speech signals; and means for maintaining a predetermined ratio between the level of the carrier energy supplied to said modulator and the level of the speech signals impressed on the modulator, said means including an amplifier tube having a gain-controlling electrode therein and having an output electrode, a source of carrier energy, means for applying carrier energy from said source to said tube for controllable-gain amplification of the same therein, means coupling said gain-controlling electrode to said input to make the gain of said tube responsive to applied speech signals, said last-mentioned means including a rectifier for rectifying speech signals derived from said input, and means connecting said output electrode to said modulator to supply carrier energy thereto from said tube.

2,530,580
MULTICHANNEL SIGNALING SYSTEM
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1946, Serial No. 706,782
17 Claims. (Cl. 343—100)

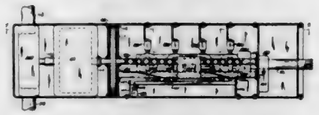
1. A communication system wherein a plurality of high frequency carriers of different frequencies are transmitted in a single beam, including means

for separating said carriers one from the other, split said beam into a spectrum, individual pick-



up means for said carriers and means for focusing said carriers upon said pick-up means.

2,530,581
CONTROL FOR ZONE HEATING SYSTEMS
John L. Markis, Warrensville Heights, and Harry Baxter, Garrettsville, Ohio
Application September 13, 1946, Serial No. 696,670
3 Claims. (Cl. 237—8)

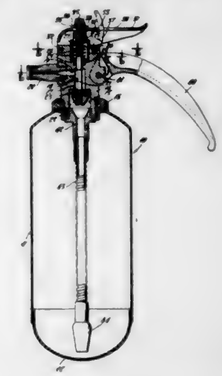


1. In a zone heating system of the type having a source of heated fluid, pipes extending from said source to a plurality of heating zones, and a thermostat for each zone, a control apparatus, comprising a straight manifold member positioned between the said source and pipes and having a plurality of valves mounted therein controlling the flow of fluid into each of the said pipes, a valve operating means mounted on each of the said valves and including a cam having arcuate and cross-shaped camming surfaces, all of the said cams being aligned in a single plane parallel to the said manifold, a drive shaft, including driving means, having interconnected cross spiral grooves, mounted in spaced parallel relationship with the said cams, a driven shaft having a single spiral groove, mounted in spaced parallel relationship with the said drive shaft, a selector member slidably mounted on the said shafts, having keys engageable with the several spiral grooves thereof and being reciprocatingly movable longitudinally of the said shafts in response to rotation of the drive shaft, the driven shaft being reciprocatingly rotatable in response to the longitudinal movement of the selector, the selector having a solenoid controlled retractable finger capable of engaging any or all of the said cross-shaped camming surfaces and rotating the cams through an angle of ninety degrees, to either open or close their associated valves when in an energized or extended condition, and of passing any or all of the said cross-shaped camming surfaces when in a deenergized or retracted condition, a plurality of two-position electric switches connected to the aforesaid zone thermostats and operable in response to rotation of the said arcuate camming surfaces, a multi-position electric distributor electrically connected to the said switches and solenoid and operable in response to rotation of the said driven shaft, and a control circuit including the aforesaid thermostats, switches, distributor and solenoid operable in response to predetermined settings of the said thermostats and cams, to either close or open the circuit to either energize the said selector finger, to cause it to open or close any or all of the said valves, or to deenergize the selector finger to cause it to pass any or all of the said valves.

2,530,582
ELECTRIC LIGHT FIXTURES FOR TUBULAR FLUORESCENT LAMPS
Norman Neuman, Montreal, Quebec, Canada
Application March 1, 1947, Serial No. 731,750
1 Claim. (Cl. 240—51.11)

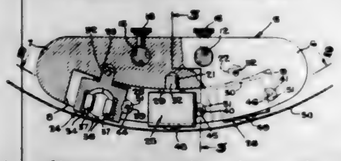
In an electric light fixture, a body adapted to mount an electric lamp, and having longitudinal side walls terminating in flanges, end members fixedly secured to said body, brackets fixedly secured to said end members, reflectors telescopically engaging with one another and overlapping the flanges of said body and detachably secured to said end members.

2,530,583
FIRE EXTINGUISHER
Ignatius Nurkiewicz, Brooklyn, N. Y.
Application February 28, 1950, Serial No. 146,683
6 Claims. (Cl. 169—31)



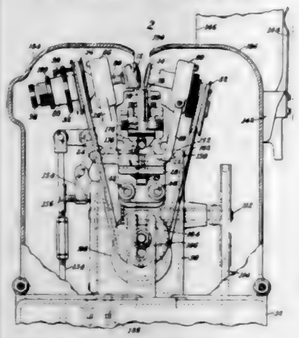
1. A valve for a fire extinguisher comprising a container adapted to retain fire extinguishing fluid under pressure, said valve comprising in combination a body adapted to extend upwardly from said container, a downwardly facing valve seat within said body, a valve stem carrying a valve in position to cooperate with said seat and said stem extending upwardly through a packing in the valve body, spring means for urging said valve stem upwardly, means upon said valve stem to provide two shoulders facing each other, an opening handle pivoted on one side of said valve and embracing said valve stem between said shoulders, whereby the depression of said operating lever will open said valve, a sealing lever having a cam surface shaped to engage the underside of the operating lever and to force the valve upwardly into tighter engagement with the valve seat.

2,530,584
MULTIPLE MAGNETIC HEAD MOUNT
Frank E. Pontius, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application December 29, 1948, Serial No. 67,891
6 Claims. (Cl. 179—100.2)



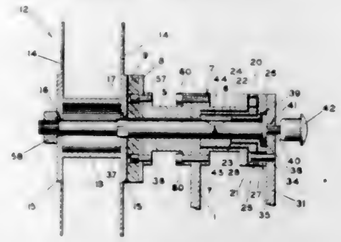
1. An adjustable mounting for a plurality of magnetic heads, comprising a casting having a rectangular recess therein, said recess having side walls and a bottom surface and extending along the major portion of the length of said casting, a plurality of magnetic head holders having stub shafts thereon, said stub shafts being positioned in a series of openings along the major portion of the length of and in the surface of said recess, individual means connecting said holders and the walls of said recess for pivoting sail holders on their respective shafts, and means for simultaneously adjusting all of said heads in at least one direction.

2,530,585
SEMIAUTOMATIC SOLE-EDGE INKING MACHINE
Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 5, 1947, Serial No. 772,313
2 Claims. (Cl. 91—51)



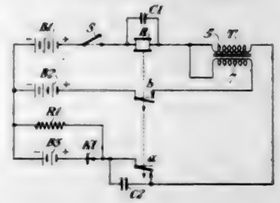
1. In a machine for traversing a sole peripherally to ink its edge, an arm, a driven feed roll carried thereon, a cooperating feed roll, an upstanding arm supporting said cooperating roll, said feed rolls being journaled in the upper ends of said arms in positions to engage the opposite sides of the sole, an ink roll offset from the work-engaging surfaces of said feed rolls against the surface of which the periphery of the sole is moved, a sleeve journaled in said pivoted arm, a shaft carrying one of the feed rolls slidable longitudinally in said sleeve and restrained to rotate therewith, means for rotating the sleeve thereby to rotate the shaft, a spring on the sleeve urging the shaft in a direction to hold the feed roll in engagement with the sole, and a stop movable on the sleeve to fixed positions thereby to limit axial movement of the shaft in the upstanding arm.

2,530,586
ANCHOR WINCH
Starr W. Smith, Flint, Mich.
Application June 18, 1947, Serial No. 755,436
3 Claims. (Cl. 254—187)



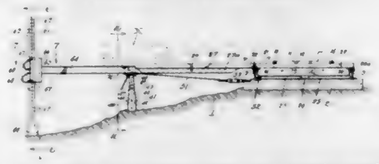
1. In an anchor winch having a locking and braking means, the combination comprising: a support member; a tubular spacer on each side of said support member and rigidly affixed thereto in axial alignment; a braking disk rigidly affixed to one of said spacers on the end removed from said support; a shaft mounted through said spacers, support member, and braking disk and capable of rotary and axial movement relative thereto; a reel fixedly mounted on said shaft with one side adjacent said braking disk; a locking collar having a flange mounted on and for rotary motion with said shaft adjacent the other of said spacers at the end removed from said support; a plurality of openings circumferentially spaced around said flange; a slidable locking shaft mounted upon said other spacer in radial register with said openings in the said flange of said locking collar and capable of axial movement only for selective engagement with one of said openings; a handle moveable in a direction parallel with and rotatable around the axis of said shaft, said handle being associated with said shaft and having a pin selectively engageable in one position of said handle with one of said openings in said locking collar to effect rotary motion of said locking collar upon crankwise motion of said handle; a spring and stop associated with said handle and shaft effecting in another position of said handle axial movement of said shaft and resultant engagement of said reel and braking disk.

2,530,587
BATTERY CHARGING APPARATUS
Andrew J. Sorensen, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 30, 1949, Serial No. 130,225
7 Claims. (Cl. 171—97)



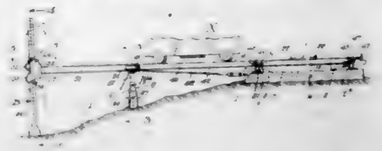
7. In combination, a source of direct current energy of a predetermined voltage, a first load requiring direct current energy at a substantially lower voltage than the voltage of said source, a second load requiring direct current energy at a substantially higher voltage than the voltage of said source, and means for supplying energy to said first and said second loads from said source, said means comprising a transformer having a first winding and a second winding, a relay having a winding and a first and second contact, said first contact closed when the current through the winding is less than a predetermined value, and said second contact closed when the current through the relay winding exceeds said predetermined value, said relay being of the slow-to-release type; a first circuit including in series said source, the winding of said relay, said first winding of the transformer, said first contact of said relay and said first load; and a second circuit including in series said source, said second winding of said transformer, said second contact, and said second load; the parts being proportioned and arranged so that the current which flows in said first circuit is greater than said predetermined value, and the current which flows in said second circuit is less than said predetermined value.

2,530,588
SET-OFF DEVICE
Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 12, 1947, Serial No. 785,281
4 Claims. (Cl. 104—45)



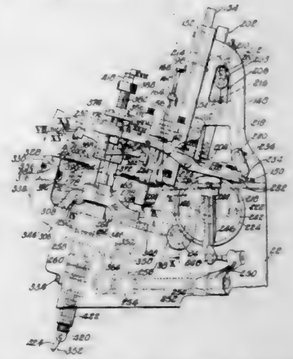
1. In a take-off mechanism for track-working equipment, a readily removable base formed and adapted to be supported upon the two rails of a railroad track and span the space therebetween, a turntable on said base, located between the rails of the track to which the base is applied, the lowest portion of said base being adapted to be held by the track rails in a position below the tops of the rails and above the rail ties, said turntable being mounted for pivotal movement on said base, and including a pair of rails of the general gauge of the railorad track rails, adapted to be located above and overlying the track rails when in vehicle-receiving position, and adapted to receive and support the wheels of a vehicle riding along said railroad track rails, removable ramp rails between and alongside the track rails, adapted to connect said turntable rails with said railroad track rails when the turntable rails are aligned with said railroad track rails, each such ramp rail having an outer end portion adapted to extend along a corresponding track rail and including a wheel-flange-receiving portion located beneath the top of said rail and having an inner end portion removably secured to the turntable, at a level above the top of the track rail, in alignment with the rails on the turntable, a removable storage assembly adapted to be positioned to one side of the track, said assembly including vehicle-receiving rails of the general gauge of the railroad track rails, and means for firmly securing said ramp rails to and against endwise movement outwardly away from the ends of the rails of said removable vehicle storage assembly when the rails of said turntable are aligned with the vehicle-receiving rails of said storage assembly.

2,530,589
TAKE-OFF MECHANISM
Harry W. Protzeller, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 21, 1947, Serial No. 787,319
8 Claims. (Cl. 104—45)



1. In a take-off mechanism for track-working equipment, including vehicles having flanged wheels, a readily removable base formed and adapted to span the space between the two rails of a railroad track, said railroad track rails being adapted to receive the flanged wheels of such vehicles, a turntable on said base, an elevating mechanism for said turntable adapted to elevate the turntable with a vehicle supported thereon, a run-off track structure positioned laterally of said railroad track, having rails of the general gauge of the track rails and of the said flanged wheels and removable rails adapted to span the space between said run-off track rails and the rails of the railroad track and formed to be applied and positioned after elevation and rotation of said turntable, said removable rails, when in vehicle receiving position, spanning and resting upon the rails of said railroad track, said turntable being formed and adapted to engage a part of the vehicle between the rails of the railroad track, said turntable being between said removable rails when said removable rails are aligned with said run-off track structure.

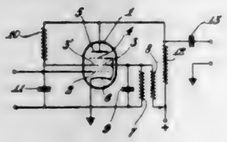
2,530,590
HEEL BREASTING MACHINE
Percy White, Leicester, and Frank Bycroft Keall, Swanage, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 24, 1949, Serial No. 78,172
In Great Britain March 4, 1948
24 Claims. (Cl. 12—47)



1. In a heel breasting machine, a turret having a plurality of units, each of said units comprising means for supporting, positioning and clamping a heel, means for automatically indexing said units successively between a heel receiving station in which heels are positioned and clamped

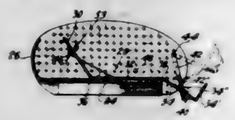
in said units and a breasting station in which said heels in said units are breasted, a manually actuated member, and mechanism operative in response to movement of said member for clamping a heel in one of said units at said heel receiving station and for thereafter effecting actuation of said means.

2,530,591
AMPLIFYING SYSTEM PROVIDED WITH PARALLEL ELECTRON DISCHARGE PATHS HAVING DIFFERENT MUTUAL CONDUCTANCES
Gerrit Hendrik Petrus Alma and Pieter Frederik van Eldik, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 15, 1946, Serial No. 683,710
In the Netherlands March 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 15, 1963
8 Claims. (Cl. 179—171)



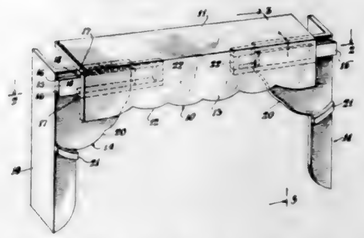
1. Apparatus for amplifying electrical oscillations comprising first and second electron discharge paths enclosed in an evacuated envelope arranged in parallel relation, each of said paths including a cathode, a control grid and an output electrode, said second path further including an auxiliary electrode, said first path having a relatively large average mutual conductance characteristic and a relatively small grid control range, said second path having a relatively small mutual conductance characteristic and a relatively large grid control range, an output circuit including a first resistance connected to the output electrodes of said paths, means to apply the oscillations to be amplified to the control grids in said paths, a second resistance connected between said output electrodes and the auxiliary electrode in said second path, said first resistance having a value at which the voltage developed thereacross and applied to said auxiliary electrode through said second resistance renders said second path non-conductive at a predetermined low amplitude level of said oscillations.

2,530,592
CONVERTIBLE BABY CARRIAGE
Robert S. Aries, New York, N. Y.
Application April 2, 1948, Serial No. 18,599
4 Claims. (Cl. 296—63)



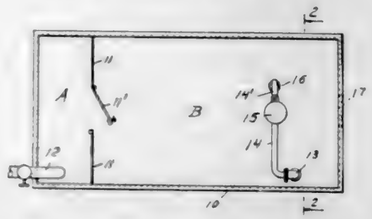
1. Baby carriage comprising a rigid body including a bottom and sides, a seat, and means to adjustably support the seat in positions to allow the occupant of the carriage to sit and lie, respectively, said seat consisting of a back rest, an actual seat and a foot rest, said three seat sections being hingedly connected with each other, said adjustable seat-supporting means including buttons projecting from each of the inner faces of said sides, said bottom, and means for suspending the foot rest from the carriage body, a pair of said buttons on each side jointly supporting the back rest in the sitting position, said bottom slidably supporting said actual seat, the bottom also supporting said back rest in the lying position, said suspending means including a stirruplike member permanently pivoted on said sides and adjustably holding the foot rest in the lying and sitting position, respectively, and a bracket on the foot rest pivotally retaining said stirruplike member in the lying and sitting positions, whereby said two pairs of buttons are cleared when the back rest is moved into the lying position and said bracket retains the stirruplike member during the swinging movement from either of said positions into the other.

2,530,593
DRAPERIES
Charles Bashwiner, Great River, N. Y.
Application July 7, 1945, Serial No. 603,623
5 Claims. (Cl. 160—39)



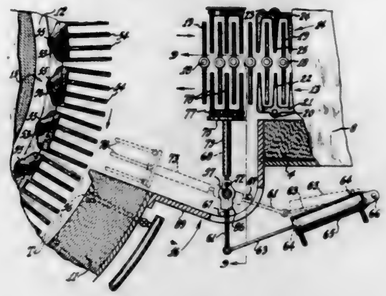
4. In a device of the class described, a valance member including a rearwardly extending shelf portion and a depending front wall, guiding and supporting means at the rear surface of said front wall, an end member having guiding and supporting means at the front surface thereof normally slidably engaging the guiding and supporting means of said front wall and having an upper edge portion normally slidably engaging an under surface of said shelf portion.

2,530,594
SEPARATING SOLID MATTER FROM HOT WORT
Fremont W. Benedict, Upper Darby, Pa., assignor to F. W. Benedict, Emily Benedict, E. W. Hipp, and Eve Hipp, copartners trading under the name of Bruell Products Company, Philadelphia, Pa.
Application February 4, 1948, Serial No. 6,267
3 Claims. (Cl. 210—54)



1. The improvement in separating finely-divided solid matter from hot wort which comprises introducing the hot wort into a confined zone, maintaining the wort in the confined zone in a state of turbulence to keep solids therein in suspension for a length of time sufficient to permit flocculation of finely-divided solid particles into aggregates or flocs of increased size and faster settling quality, passing the wort containing the aggregates or flocs from the bottom of the zone of turbulence into the bottom of an adjacent quiescent zone of substantially greater volume than the zone of turbulence, and withdrawing substantially clear wort from near the surface of said quiescent zone at a point remote from where the wort passes into that zone from the zone of turbulence.

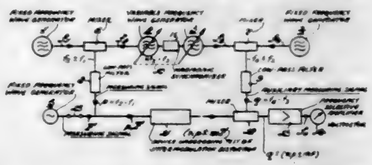
2,530,595
TILE FURNACE
Emil Blaha, Cheltenham, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application August 27, 1947, Serial No. 770,839
10 Claims. (Cl. 25—142)



1. In apparatus for firing ceramic ware and the like, a kiln having a first zone for preheating and cooling the ware and a second zone for firing the ware, said first zone including an elongated chamber having an exit and entrance at one end thereof, supports extending centrally of said chamber and having members thereon extending from each side thereof to support a plurality of layers of ware, a first walking beam mechanism to move the layers of ware on the members extending from one side of said supports inwardly toward said second zone, a second walking beam mechanism to move the layers of ware on the members extending from the other side of said supports outwardly from said second zone, means to move the layers of ware from members on one side of said supports into said second zone and from said second zone to members on the other side of said supports, and means to supply heat for firing the ware while it is in said second zone.

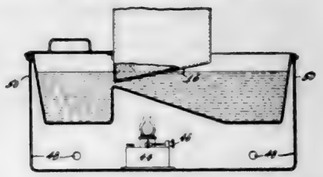
2,530,596
MEASURING CIRCUITS FOR INTERMODULATION MEASUREMENTS
Lourens Blok, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 16, 1946, Serial No. 684,069
Patent expires January 15, 1963
Section 1, Public Law 690, August 8, 1946
In the Netherlands January 15, 1943
7 Claims. (Cl. 175—183)

1. Apparatus for measuring the distortion arising in a device due to intermodulation effects therein, said apparatus comprising means to generate a first measuring signal F of fixed frequency, means to generate a second measuring signal p of adjustable frequency, means to apply said first and second measuring signals F and p as an input to said device, means to generate an auxiliary measuring signal q of adjustable frequency, means simultaneously to adjust frequencies p and q so that the relation $q+np$ ex-



hibits a constant value, n being a harmonic order coefficient, means to combine the auxiliary signal q with the intermodulation product np mF yielded in the output of said device to produce a resultant signal having a frequency $q-(np\pm mF)$, m being a harmonic order coefficient, and means to indicate the amplitude of the resultant signal.

2,530,597
CULTURING APPARATUS
Fred K. Chandler, Des Moines, Iowa; F. Opal Chandler, executrix of said Fred K. Chandler, deceased, assignor to The Tanvilac Company, Inc., Des Moines, Iowa, a corporation of Iowa
Application March 9, 1945, Serial No. 581,911
2 Claims. (Cl. 119—51)

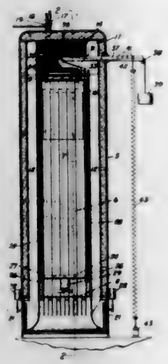


1. In a drinking water trough structure, a drinking trough, means for maintaining water at a predetermined level therein, the bottom of said trough having a sloping portion, a hopper having a perforated bottom in said trough above the upper end of said sloping portion and slightly below said level of the water, said trough having a restricted water entrance passageway between said sloping portion and said hopper bottom, said hopper bottom being inclined with respect to said sloping portion of said trough bottom.

2,530,598
REFRIGERATING SYSTEM HAVING AIR CIRCULATING MEANS
Harold E. Christman, San Jose, Calif.
Application May 5, 1947, Serial No. 745,917
10 Claims. (Cl. 62—91.5)

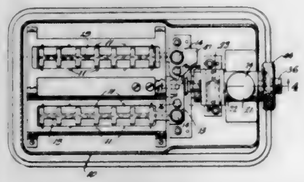
1. A refrigerator having an insulated casing, a walled chamber formed in said casing and spaced therefrom, means for moving a current of air through said casing and over the outer wall of said chamber, means within said chamber for causing circulation of a refrigerant over the inner walls of said chamber through the movement of the refrigerator as a whole, said means including a resilient refrigerant carrier, and a pivoted arm mounted in said casing, one end of said arm overlying said carrier, the other end of said arm extending out of said casing,

cables connecting to said carrier and reeved over said arm and having a counterbalance connected



to the free end of said cable to counterbalance the refrigerant load mounted on said carrier.

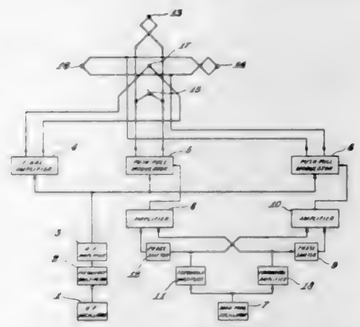
2,530,599
TIMING MECHANISM
Prentice H. Conradson, Chicago, Ill., assignor of one-half to Thomas P. Slattery
Application May 7, 1947, Serial No. 746,421
15 Claims. (Cl. 161—1)



1. Timing mechanism comprising means forming a pair of vertically displaced chambers adapted to contain a flowable material, means forming a connection between the chambers through which material can flow from the upper to the lower chamber, a valve including a pair of relatively movable members to control the flow of material through the connection, means to adjust the position of one of the members, a spring urging the other member toward said one of the members to close the passage, an element responsive to a condition to be controlled to move said other member away from said one of the members to open the passage, and a control device operated by flow of material from the upper to the lower chamber.

2,530,600
RADIO DIRECTION FINDER
Frank De Fremery, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 2, 1946, Serial No. 680,901
In the Netherlands April 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 12, 1963
13 Claims. (Cl. 343—106)

1. A method of establishing a bearing by radio means, comprising the steps of radiating a first radio frequency field of a predetermined pattern modulated at a given frequency and rotating at the angular velocity of said given frequency, radiating a second radio frequency field of the same pattern modulated at a second frequency harmonically related to said given frequency and rotating at the angular velocity of said second frequency, and synchronizing said rotating radio

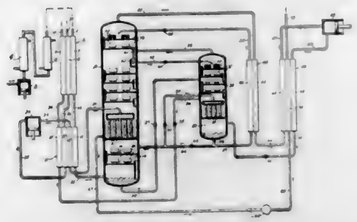


frequency fields to provide an in-phase relationship in a given azimuthal direction whereby said bearing with respect to said given azimuthal direction is established proportional to the phase difference between said first and said second radio frequency fields.

2,530,601
ARTIFICIAL TOOTH
Francisco Dell' Anno, Buenos Aires, Argentina
Application December 26, 1946, Serial No. 718,423
In Argentina November 20, 1946
1 Claim. (Cl. 32—9)

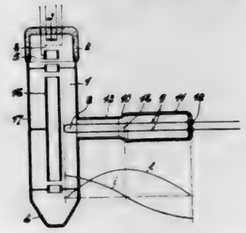
An artificial tooth comprising a body having top, bottom, rear, and two side faces, said top face sloping in downward direction rearwardly, said bottom face sloping in upward direction rearwardly, said body being provided with a substantially T-shaped channel extending from said rear face into said body and substantially vertically from said top to said bottom face, said channel including a substantially vertical, longitudinal slot opening into said rear face and a substantially vertical, transverse slot forming the cross of said T-shaped channel, said transverse slot being disposed remote from said rear face within said body and communicating with said longitudinal slot, a recess extending from each lateral end of said rear face into the respective side faces of said body and being substantially coextensive with said T-shaped channel, the extent of projection of said T-shaped channel and of said recesses into said body from said rear face being less than one-half the thickness of said body determined by the distance between said rear face and the front face of said body.

2,530,602
RECOVERY OF THE CONSTITUENTS OF GASEOUS MIXTURES
Wolcott Dennis, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 12, 1946, Serial No. 715,864
7 Claims. (Cl. 62—175.5)



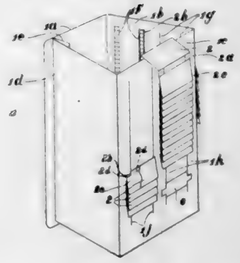
1. The method of recovering the constituents of gaseous mixtures including principally nitrogen and hydrogen with a substantial proportion of argon which comprises compressing and thereafter cooling the gaseous mixture by heat exchange with separated nitrogen and hydrogen before and after expansion thereof, subjecting the mixture to partial condensation by heat exchange with the liquid argon product of the operation and thereby separating the major part of the nitrogen and hydrogen in the gaseous phase from a liquid enriched in constituents less volatile than nitrogen including argon, subjecting the enriched liquid to rectification to separate argon with the residue of nitrogen and hydrogen as a gaseous effluent and rectifying the gaseous effluent to recover the argon in the liquid phase.

2,530,603
DEVICE FOR VERY HIGH FREQUENCIES COMPRISING A LEAD-THROUGH CONDUCTOR CARRYING HIGH-FREQUENCY ENERGY
Eduard Gerardus Dorgelo, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,147
In the Netherlands March 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 1, 1963
3 Claims. (Cl. 178—44)



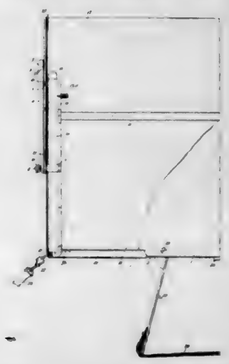
1. A high frequency device having a tubular wall portion of low electrical surface resistance, a current carrying member positioned within said tubular portion, extending therefrom and having a voltage and current distribution to produce thereon a current node and a potential node, and means to hermetically seal said current carrying member to the end of said tubular portion in an insulating manner, said means comprising an annular metal sealing member having a greater electrical surface resistance than said tubular portion positioned in spaced relationship to said current carrying member in the vicinity of a current node on said current member and secured to said tubular portion, and a tubular insulating member approximately one-quarter wavelength in length, having one end thereof secured to said annular member in the vicinity of said current node and the other end thereof secured to said current carrying member in the vicinity of a potential node on said current carrying member.

2,530,604
RECORD FILING MEANS
Herbert V. Emblen and Melvin D. Baker, San Diego, Calif.
Application March 13, 1945, Serial No. 582,506
4 Claims. (Cl. 129—20)



1. In a record file, a folder comprised of four main panels folded together, the two inner panels having slits to accommodate record leaves having tabs insertable through said slits, one outer panel foldable between said inner panels and the other outer panel folded to cover said record leaves on one side of the folder, and attachment means secured to the folder at the fold line of this last mentioned panel whereby the folder may be secured in a suitable containing cover.

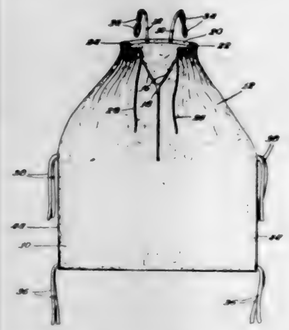
2,530,605
DRAWING OR SKETCHING BOARD
Arthur John Ensor, Bramley, Surrey, England
Application February 10, 1948, Serial No. 7,447
In Great Britain February 12, 1947
19 Claims. (Cl. 45—131)



1. A drawing or like board provided with pivotal stays, rigid battens mounted pivotally on the

said stays and a cover supported by the said battens so as to be capable of being either collapsed into close proximity with the top surface of the board, or alternatively held as a cover or shade over it.

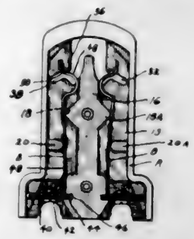
2,530,606
GARMENT
Marjorie R. Farrington, Waukegan, Ill.
Application August 29, 1947, Serial No. 771,257
3 Claims. (Cl. 2—69.5)



3. Infant's bed clothing comprising, in combination: a cloth bag having a lower half of substantially constant transverse dimensions, and a uniformly tapered upper half; the upper end of said upper half being open; the edge of said open upper end being adapted to encircle the infant's body just below the arms; said upper end including a centrally located flat breast portion long enough to extend substantially across the child's breast, and side portions adapted to be puckered and extending from both ends of said flat portion throughout the remaining extent of said upper edge; drawstring means for puckering said side portions; whereby infants varying widely in size can be satisfactorily fitted by the same identical device, and in any size there is smooth cloth entirely across the breast for comfort when the child lies face down, and a small lump between the shoulder blades when the child lies face up; shoulder straps; each shoulder strap having a fixed end fastened at one end of said breast portion and the other end free; each shoulder strap having a plurality of spaced loops near its free end, adapted to receive a drawstring through one selected loop, whereby a range of sizes comparable with that included by the drawstring adjustment can also be accommodated by selection of the appropriate loops for the shoulder straps.

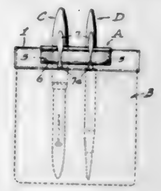
2,530,607
FLUORESCENT LAMP SOCKET
Benjamin Fox, Philadelphia, Pa.
Application May 1, 1946, Serial No. 666,292
1 Claim. (Cl. 173—328)

In a socket for engaging the pins of a fluorescent lamp insulating body, the top of said body having a pair of substantially parallel walls, defining a recess for the passage of a pair of spaced pins on one end of the lamp, an irregular wall joined to each of said parallel walls whereby said irregular walls produce small projections extending downwardly substantially in the same vertical planes as the parallel walls, each irregular wall defining an inclined slot extending downwardly away from the vertical center of the body, a pair of electrical spring contacts mounted within the interior of said insulating body, each contact located adjacent one of said inclined slots and adjacent one projection whereby said contact may press one pin of said lamp against



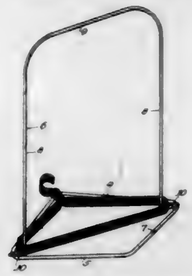
said projection to hold said pin in position and a projection engaging one side of one electrical contact and another projection engaging another portion of said contact whereby tension is placed upon said contact by said projections.

2,530,608
SAFETY HOLDER FOR INSTRUMENTS
William H. Fraser, Reno, Nev.
Application April 23, 1946, Serial No. 664,188
1 Claim. (Cl. 2—249)



In a safety holder for securing an instrument in a garment pocket; a clamp-like member U-shaped in vertical cross section and having an inner plate portion for entering the pocket interior and an outer plate portion of approximately the same size as the inner one for extending over the front of the outer surface of the pocket; said clamp-like member frictionally gripping the front wall of the pocket and having its outer plate portion fashioned with a flange that projects outwardly therefrom; the flange being positioned to engage above an inturned portion disposed at the free end of the instrument clip when the instrument is inserted into the pocket; the flange preventing the accidental withdrawal of the instrument from the pocket; the clamp-like member having an enlarged semi-cylindrical portion interconnecting the inner and outer plate portions; the plate portions being flat and paralleling one another and being spaced closer together than the diameter of the semi-cylindrical portion; the semi-cylindrical portion serving as a fulcrum about which the instrument clip may be rocked and the lower edge of the inner plate portion serving as another fulcrum about which the instrument may be rocked; the instrument and clip when rocked about their respective fulcrums, moving the inturned end of the instrument clip away from the body of the instrument, thereby causing the inturned end of the clip to become disengaged from the flange and thus permit the ready removal of the instrument from the holder and pocket.

2,530,609
RACK FOR STORING AND TRANSPORTING HOOK EQUIPPED CLOTHES HANGERS
Arthur Friedman, Chicago, Ill.
Application September 8, 1947, Serial No. 772,710
1 Claim. (Cl. 211—49)



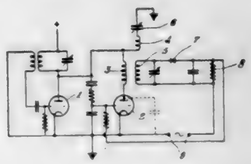
As a new article of manufacture, a portable rack designed and adapted to store and transport in a flatwise position and one on top of the other a plurality of similar conventional wire variety clothes hangers of the type that consists of a normally horizontal bottom piece and a pair of upwardly and inwardly inclined top pieces having the outer ends thereof connected by curved corner portions to the ends of the bottom piece and their inner ends connected together and shaped to form a hook, said rack comprising a flat, truly diamond shaped base frame formed of stiff round wire and having the acute angled corners thereof spaced apart a slightly greater distance than the distance between the curved corner portions of the hangers and the parts thereof that are disposed on opposite sides of each obtuse angled corner straight and disposed at substantially the same obtuse angle as the top pieces of the hangers, and an inverted U-shaped standard formed of stiff round wire, adapted to have the hangers stacked therearound and consisting of a pair of side pieces spaced laterally apart a sufficient distance loosely to receive and fit within the curved corner portions of the hangers and having the lower ends thereof bent outwards at right angles, connected fixedly to said acute angled corners of the base frame and forming supports for said curved corner portions of the hangers, and a crosspiece extending between, and connected to, the upper ends of the side pieces and having the central portion thereof of materially less length than the distance between the side pieces of the standard and shaped to form a handle for carrying the rack from place to place and its end portions sloping gradually downwards and outwards so that they form comparatively large substantially quarter round members that serve to guide the corner portions of the hangers around the side pieces during mounting of the hangers on the standard, the obtuse angled corners of the base frame being spaced from the center of the frame a distance slightly less than the height of the hangers and adapted selectively to support the hooks of the hangers.

2,530,610
DANCING DOLL
Louise P. Genone, San Diego, Calif.
Application June 7, 1948, Serial No. 31,552
4 Claims. (Cl. 46—136)

1. In a dancing doll of the class described, a torso member, arm members, a head member and common bearing means pivotally connecting said head member, arm members and said torso member, leg members pivotally connected to the lower end of said torso member, finger loops in

connection with said leg members and said torso member at opposite sides of the pivotal axis of said legs with said torso member.

2,530,611
REACTANCE TUBE CIRCUIT ARRANGEMENT
Gerard Hepp, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 4, 1946, Serial No. 667,446
In the Netherlands September 17, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires September 17, 1961
8 Claims. (Cl. 332—18)

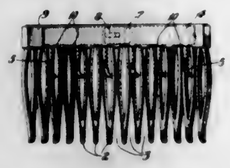


1. A circuit arrangement for linearly varying an admittance by means of a periodic control voltage, comprising a reactance tube having an anode, a control grid and a cathode, means to apply said control voltage to the control grid of said tube to modulate the current flowing through said tube, means to derive a potential proportional to the amplitude variation of the modulated current, and means to apply said potential to said control grid in opposition to said control voltage thereby to linearize the relationship between variations in the amplitude of said control voltage and said admittance variations.

2,530,612
COMB
Irving E. Hertz, South Orange, N. J.
Application April 26, 1949, Serial No. 89,595
4 Claims. (Cl. 132—21)

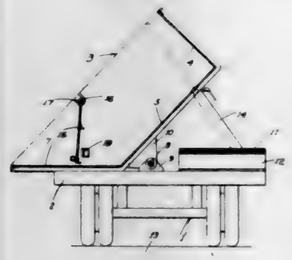
1. A comb comprising a bar having a lateral opening centrally located therein and having a plurality of teeth projecting downwardly from

such bar; a casing attached to such bar forming a space between the casing and such bar; a shorter bar located in such space, movable laterally within the space so formed and provided with an



operating button projecting through the lateral opening in the longer bar; and serrated edged teeth projecting downwardly from the shorter bar below the lower edge of the longer bar.

2,530,613
SIDE-DELIVERY TRUCK TANK
Shirley D. Hopper, Manteca, Calif.
Application May 28, 1945, Serial No. 596,132
4 Claims. (Cl. 298—18)

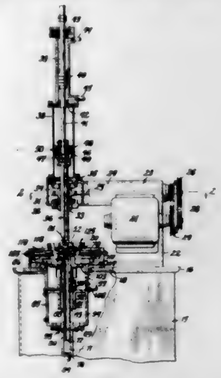


4. The combination with a wheel supported substantially rectangular bed frame, of a tank body comprising a substantially horizontal bottom of less width than the bed frame, a substantially vertical side upstanding from one edge of the bottom and lying in substantially the same vertical plane as one side of the bed frame, and a sloping side on the body extending at an upward slope from the other edge of the bottom and in a direction away from the vertical side and terminating at its outer edge in substantially the same vertical plane as the opposite side of the bed frame; a pivot shaft extending longitudinally along and secured to the bed frame adjacent the longitudinal center line thereof, brackets depending from the bottom of the tank, the lower ends of said brackets being journaled on said shaft, a hydraulic lift unit pivoted at one end to the bed frame adjacent that side on which the vertical side of the tank is located, the upper end of said unit being pivotally connected with the top edge of the tank, and a partition plate within the tank extending from a point substantially midway of the sloping side and at substantially right angles thereto to form a load retaining area in which the vertical center of weight of any load therein will be substantially against the mid portion of said sloping side, the partition being pivoted for swinging movement toward the outer edge of the sloping side when the tank is tilted relative to the bed frame.

2,530,614
TRANSMITTER AND RECEIVER FOR SINGLE-SIDEBAND SIGNALS
Eduard Herman Hugenholtz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,122
In the Netherlands October 21, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 21, 1963
6 Claims. (Cl. 250—6)

1. Apparatus for receiving incoming energy constituted by suppressed carrier single side band signals and at least one pilot oscillation, said suppressed carrier and said pilot oscillation being derived from a common wave source whereby fixed ratios exist between the respective frequencies of said carrier and said pilot oscillation with respect to the frequency of said common source, said apparatus comprising a mixer, an adjustable local oscillator, means for applying oscillations from said local oscillator together with said incoming energy to said mixer, a detector, means for applying the single side band signals component from the output of said mixer to said detector, a local carrier source, means for applying said local carrier to said detector to effect demodulation of said signals, and means responsive to the frequency of said pilot oscillation to govern the frequency of said local oscillator to maintain the proper relation between the frequency of said local carrier and the side band signals component applied to said detector.

2,530,615
HONING METHOD AND APPARATUS
Marsden C. Hutto, Detroit, Mich.
Application November 29, 1947, Serial No. 788,834
29 Claims. (Cl. 51—161)

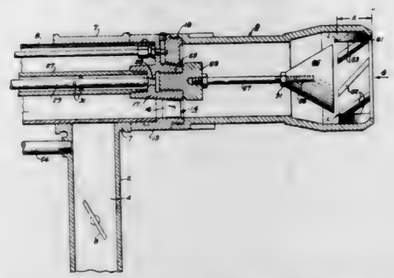


10. Apparatus for finishing resiliently expansible circular rings, comprising an abrasive device having its working faces in opposed circular relation, a plate adapted to engage each end face of said circular ring and hold said ring concentrically within said working faces, means for holding said plates against said end faces of said ring with a force sufficient to impart rotative movement to the ring, but insufficient to prevent radial expansion thereof into engagement with said working faces, means for moving said plates relative to said abrasive device to produce relative movement between said ring and working faces, one of said plates being provided with an opening therethrough leading to the chamber provided by said plates and ring, a fluid pressure supply line operatively connected with said opening and supplying fluid under pressure to said chamber to expand said ring and provide the desired contact pressure between said ring and working faces.

2,530,616
RECOVERY OF VANADIUM AND CHROMIUM
Franklin L. Kingsbury, Westfield, and Frank J. Schultz, Fords, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 17, 1948, Serial No. 49,856
4 Claims. (Cl. 23—140)

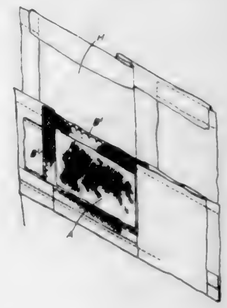
1. Method for recovering vanadium and chromium values from iron salt solutions containing the same wherein the iron is in ferrous conditions which comprises adding to said solution an alkaline reagent to reduce the acidity thereof to from about pH=2 to not more than pH=5, adding an oxidizing agent in amount selectively to oxidize the vanadium and chromium but not the iron, adjusting and maintaining the solution at an acidity thereof from about pH=4 to pH=5 to precipitate the vanadium and chromium values, and separating the precipitated values from the supernatant liquor.

2,530,617
SPIRAL FLAME GAS BURNER
Miles W. Kirk, Berkeley, and Harry O. Sherwood, Oakland, Calif., assignors, by mesne assignments, to Simplex Oil Heating Corporation, New York, N. Y., a corporation of New Jersey
Application April 5, 1948, Serial No. 19,108
3 Claims. (Cl. 158—109)



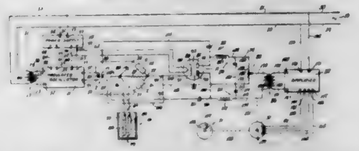
1. A burner comprising a nozzle adapted to receive a flowing mixture of gas and air and having an inside cylindrical surface portion adjacent the discharge end thereof, substantially straight vanes fixed to the inside of said cylindrical portion of the nozzle at the discharge end thereof and inclined with respect to the axis of the nozzle, the ends of said vanes adjacent said nozzle discharge end extending substantially to said discharge end and projecting radially inwardly of said nozzle at said nozzle discharge end and the inner peripheral edges of said vanes lying on substantially the same cylindrical surface, and a cone shaped deflector spaced permanently rearwardly from but closely adjacent the rear ends of said vanes, the cone sloping outwardly with reference to said nozzle discharge end at such angle as to direct the mixture toward the inner periphery of said nozzle within the area occupied by said vanes, the diameter of the base of said cone shaped deflection being less than the diameter defined by the inner peripheral edges of the vanes whereby radial clearance exists between the periphery of the base of said cone and the inner edges of said vanes.

2,530,618
WAISTBAND OF TROUSERS, SHORTS, SKIRTS, AND THE LIKE
Solomon Klein, London, England, assignor to S. Simpson Limited, London, England, a British company
Application May 14, 1949, Serial No. 93,218
In Great Britain November 1, 1948
4 Claims. (Cl. 2—237)



1. A waistband for trousers, shorts, skirts and the like, said waistband provided with a gap at each side thereof, an insert of material cut on the bias stitched to the waistband and occupying said gap, a lining also cut on the bias reinforcing the insert cut on the bias and forming a frame to the insert, and a wide strip of elastic stitched to the waistband and to the insert on the inside of the waistband.

2,530,619
LIQUID LEVEL INDICATING MEANS
Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 25, 1945, Serial No. 601,367
17 Claims. (Cl. 318—28)



3. A device of the class described comprising in combination: a source of alternating voltage of a signal frequency modulated at a power frequency; an impedance bridge; means energizing said bridge from said source; means varying the

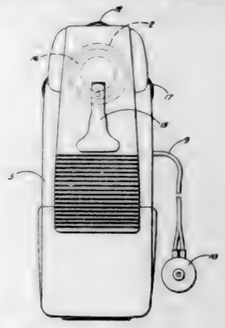
balance of said bridge in response to a condition, whereby to vary the amplitude of the voltage output of said bridge; an asymmetrically conducting member comprising an electron discharge device including an electron-emissive cathode and a plurality of anodes; coupling means impressing said output voltage between said cathode and one of said anodes, whereby to cause the flow of a first pulsating unidirectional current through said member; means deriving from said pulsating current a voltage component of said power frequency, the amplitude of said component varying with the degree of unbalance of said bridge; further coupling means impressing voltage from said source between said cathode and another of said anodes, whereby to cause the flow of a second pulsating unidirectional current through said member; means deriving from said second pulsating current a second voltage component of said power frequency and of constant amplitude; means, including a variably tapped resistor, whereby upon adjustment of said tap said first voltage component may be opposed by an equal and opposite voltage comprising a portion of said second voltage component; means energizing said motor in accordance with the phase of the preponderant one of said opposed components; and means actuated by said motor for operating said tap to vary the portion of said second component opposing said first component.

2,530,620
NEEDLE HOLDER
Stanley L. Kousens, San Diego, Calif.
Application December 31, 1946, Serial No. 719,586
4 Claims. (Cl. 223—101)

1. In a needle holder, a thimble, a clip engaging the inner and outer surfaces of said thimble, a needle-engaging portion of said clip at the outer side of said thimble, disposed at substantially right angles to the side wall of said thimble, and extending away therefrom, a thin cam member having a flat plate portion pivoted to the portion of said clip at the outer side of said thimble, said flat plate portion having a substantially U-shaped angularly extending flange, parallel to said portion of said clip at the outer side of said thimble, extending at right angles to the side wall of said thimble, said flat plate portion pivoted to said clip eccentrically of the curve of said U-shaped flange portion.

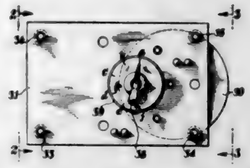
2,530,621
WEARABLE HEARING AID WITH INDUCTIVE PICK-UP FOR TELEPHONE RECEPTION
Samuel F. Lybarger, Canonsburg, Pa., assignor to E. A. Myers & Sons, Mount Lebanon, Pa., a partnership
Application May 26, 1947, Serial No. 750,480
9 Claims. (Cl. 179—107)

1. In a wearable hearing aid having a receiver, a case adapted to be worn by a hard of hearing person and having a front wall, a microphone mounted in the case but spaced from said front wall, an inductive pickup coil mounted in the case in the space between the microphone and said front wall, an amplifier, means electrically connecting the amplifier to the microphone and receiver, said pickup coil being adapted to respond to the audio frequency magnetic field of



an adjacent telephone receiver, and an electric switch for electrically connecting said coil to said amplifier to provide for inductive pickup from the telephone receiver.

2,530,622
ADJUSTABLE AUTOMATIC INTERVAL TIMER
James B. Maris, Glen Ridge, N. J., assignor to The Burdick Corporation, Milton, Wis., a corporation of Delaware
Application September 7, 1946, Serial No. 695,537
5 Claims. (Cl. 161—7)

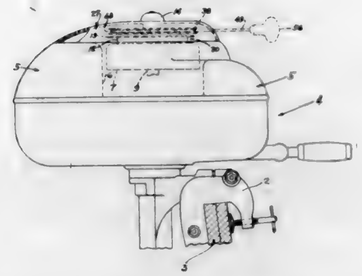


5. In an interval timer, a continuously rotatable gear, a first pin carried by said gear, a ratchet having its teeth position for engagement by said pin so as to be rotated thereby in a given direction, a first pinion positive-connected to said gear, a second pinion friction-coupled to said first pinion and positive-connected to said ratchet whereby the latter may be rotated in an opposite direction, a dog normally effective to prevent rotation of the ratchet in said opposite direction, a second pin carried by said ratchet for deflecting said dog in a given angular position of the ratchet, a third pin carried by a manually resettable member co-axial with said ratchet, a fourth pin positioned on said ratchet for facultative engagement of said third pin, means including said first pin for restoring the dog to normal during the revolution of said gear immediately following deflection of the dog by said second pin, and means including said third and fourth pins for determining the angular position to which said ratchet may be displaced in the deflected condition of said dog.

2,530,623
OUTBOARD MOTOR STARTER
George W. Martin, Eau Claire, Wis.
Application October 1, 1945, Serial No. 619,638
11 Claims. (Cl. 123—179)

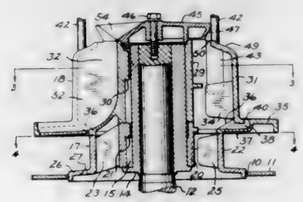
1. A starter for outboard motors comprising a fixed supporting stud, a drum rotatively mounted

on the stud and having one end of a rope secured thereto, a ratchet mechanism for operatively connecting the drum to the engine flywheel, including a plurality of pawls and a retaining unit for said pawls mounted for relative rotation on said stud, a member secured to the flywheel



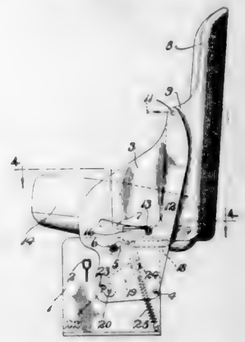
adapted to be engaged by said pawls, and means including friction means for effecting the operation of said pawls, and whereby when a pull is exerted on the rope to start the engine, said pawls will drivingly engage the member on the flywheel, and when the rope is released, said pawls will be disengaged from said member.

2,530,624
WIRE DRAWING BLOCK
Weld Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application May 14, 1947, Serial No. 747,953
2 Claims. (Cl. 205—20)



1. A wire drawing block construction of the double deck type comprising a pair of superimposed coaxial blocks each including a substantially cylindrical annular capstan through which air under pressure may flow upwardly, the upper capstan being larger in diameter than the lower capstan, a flange integral with the upper capstan and extending outwardly from the bottom thereof, the said flange having circumferentially spaced openings therethrough in position to direct jets of air upwardly adjacent the outer surface of the upper capstan, a second flange integral with the upper capstan and extending inwardly and downwardly from the bottom thereof into engagement with the top of the lower capstan, and walls integral with the upper capstan and providing circumferentially spaced generally radial passages arranged to lead air outwardly through the said second flange and beneath the upper capstan to the said openings.

2,530,625
RETRACTABLE THEATER CHAIR
Henry P. Nordmark, Grand Rapids, Mich., assignor to Ideal Seating Company, Grand Rapids, Mich., a corporation of Michigan
Application March 10, 1947, Serial No. 733,588
11 Claims. (Cl. 155—116)

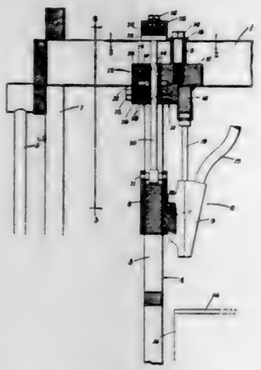


1. In a chair of the class described, spaced vertical supports, vertically positioned plates pivotally connected adjacent their lower rear portions to said supports and extending upwardly therefrom, means for limiting the pivotal movements of said plates, a seat back pivotally connected at its sides, between its upper and lower ends, to said vertical plates adjacent the upper ends thereof, a seat adapted to be positioned horizontally between said vertical plates at the intermediate portion thereof, said vertical plates having generally horizontal slots therein at opposite sides of the seat, means extending from the seat into said slots movable lengthwise of the slots and about which said seat may be turned on a horizontal axis to and between substantially vertical horizontal positions, hinge connections at opposite sides of the seat having as a hinge axis said means extending from the seats into said slots, said seat and hinges being movable in a generally horizontal direction from front to rear and vice versa, said movement being controlled by the slots in said vertical plates and the means extending from the seat thereinto, and spring actuated means connected with said hinge means and to said vertical plates adapted to tilt said vertical plates in a forward direction upon the seat being moved rearwardly, thereby moving the seat back bodily rearwardly a limited distance and simultaneously tilting the upper portion of the back in a forward direction.

2,530,626
NAILING CHUCK ACTUATING MECHANISM
Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California
Application January 18, 1949, Serial No. 71,437
4 Claims. (Cl. 1—10)

1. In a nailing machine, a supporting frame, a driving bar mounted in said frame for reciprocating movement, a nailing rod fixed to the driving bar, a nail chuck unit disposed in co-operating relation with the nailing rod for effecting a nailing operation upon movement of the driving bar in one direction, a frictional connection between the nail chuck unit and the driving bar effective to carry the chuck unit with the driving bar upon movement of the latter in either direc-

tion, such connection being yieldable upon the chuck unit engaging a stop whereby to permit



the driving bar to then continue its movement independently of the chuck unit.

2,530,627

PRODUCTION OF N-ACYL ALLOTHREONINE ESTERS

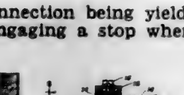
Karl Pfister, III, and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application September 6, 1946, Serial No. 695,286. Divided and this application July 2, 1948, Serial No. 36,804

6 Claims. (Cl. 260—471)

1. The process for preparing derivatives of allothreonine which comprises reacting a compound represented by the formula:

wherein R is an alkyl group and R_1 is selected from the group consisting of alkyl and aryl radicals, with hydrogen in the presence of a hydrogenation catalyst to produce a compound of the formula:



wherein R and R_1 have the significance above defined.

6. The process that comprises reacting ethyl-α-benzoylamido-β-ketobutyrate with hydrogen in the presence of platinum oxide catalyst to produce a mixture of stereoisomeric racemates of ethyl α-benzoylamido-β-hydroxy butyrate containing a preponderant amount of the ethyl ester of N-benzoyl-dl-allothreonine.

2,530,628

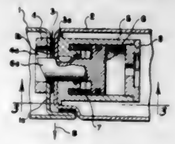
AUTOMATIC DOOR LOCKING DEVICE

Frank T. Pivero, San Diego, Calif.

Application October 20, 1947, Serial No. 780,904

3 Claims. (Cl. 292—33)

1. In an automatic door locking device of the class described, the combination of a plurality of vacuum cylinders, plungers in said cylinders, plunger-engaging plate means adapted to be connected with doors, said plate means having elongated openings therein adapted to surround said



plungers permitting substantial opening of the door without retraction of said plungers.

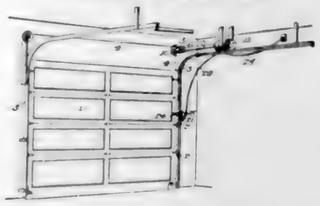
2,530,629

DOOR OPERATING MECHANISM

Edward S. Pringle, Norfolk, Va., assignor to The J. G. Wilson Corporation, New York, N. Y., a corporation of Virginia

Application January 30, 1945, Serial No. 575,269

3 Claims. (Cl. 268—59)



1. Door operating mechanism of the character described comprising, in combination, a door movable between an upper open position and a lower closed position, a cylindrical tube rotatably secured to a fixed support adjacent the top of said door when in its closed position, at least one flexible cable connected between a point adjacent the lower edge of the door and said tube and adapted to be wound on said tube to lift said door when said tube rotates, a coiled torsion spring enclosed within said tube and connected between said fixed support and said tube, said spring being of sufficient strength as to apply sufficient torque to said tube as it unwinds to rotate said tube to move the door to its open upper position, and an electric motor directly connected to said tube and acting when energized to rotate said tube in a direction only to wind up said spring and to unwind said cable from said tube to permit said door to move to its lower closed position by gravity.

2,530,630

PROCESS OF RECOVERING SULFUR FROM PYRITE

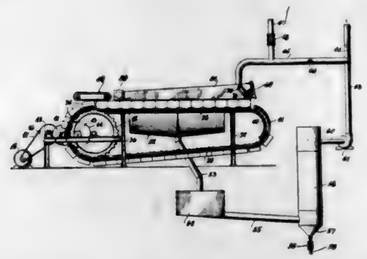
Howard C. Renken, Columbus, Ohio, assignor, by mesne assignments, to Noranda Mines, Limited, Toronto, Ontario, Canada, a corporation of Ontario

Application October 7, 1947, Serial No. 778,403

2 Claims. (Cl. 23—226)

1. The process of recovering sulfur from pyrite fines, which comprises the steps of nodulizing the fines to form nodules of predetermined size and physical characteristics, placing a mass of said nodules upon a gas-pervious support in a bed of substantial depth, igniting the upper surface of the mass while maintaining the mass on said support without substantial relative movement of the nodules thereof, admitting some air to the upper surface of the mass to maintain combustion thereof while passing gases downwardly

through and away from the burning mass, cooling the gases from the burning mass sufficiently to condense out sulfur therefrom, and diverting a selected part only of the remaining gases from



the condensation step, mixing such gases with a predetermined amount of incoming air and recycling such mixed gases through the burning mass, so as to control the reaction.

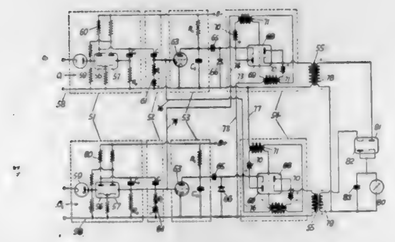
2,530,631

TIME INTERVAL MEASURING DEVICE

Stanley R. Rich, Newton Center, Mass., assignor to Raytheon Manufacturing Company, a corporation of Delaware

Original application April 16, 1948, Serial No. 21,422, now Patent No. 2,515,472, dated July 18, 1950. Divided and this application October 25, 1949, Serial No. 123,330

2 Claims. (Cl. 175—381)



1. Apparatus for indicating the difference in the times of arrival of two consecutive signals at a point of observation comprising means for converting said signals into electrical impulses, means for separating the impulses corresponding to each signal into two separate channels, means in each channel for producing a single sharp voltage impulse corresponding to the arrival of the earliest portion of the signal in said channel, sweep generating means in each channel adapted to initiate a sweep voltage wave in response to said sharp impulses, normally closed gate circuit means in each channel following the sweep circuit means and adapted to be momentarily opened by the sharp impulse of the other channel, a circuit connection from the impulse producing means of each channel to the gate circuit means of the other channel, an indicating device, and means connecting the output of each sweep generating means independently to said device through the gate circuit means in its own channel.

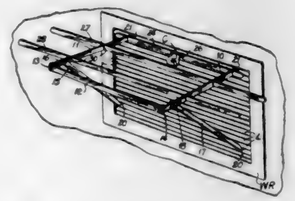
2,530,632

FOLDABLE RACK

Sydney M. Scherstuhl, St. Louis, Mo.

Application May 18, 1948, Serial No. 27,743

3 Claims. (Cl. 211—104)



1. A foldable rack adapted for the drying of garments and the like, and consisting of a plurality of elements, these including a pair of side members and a front member, said members being horizontal in their positions of use, a strut pivotally connected to each of the side members, a plurality of cross bars having means for interfitting engagement with the side members, a supporting terminal on each of the side members and each of the struts adapted to engage a register, and a hinged connection between each of the said side members and the front member, providing a normally vertical hinge axis, the hinge axes being respectively located in a more closely forward position on one side of the rack than on the other side thereof, whereby to permit one of the side members to be folded into overlying but spaced parallel relation to the front member, with the other side member therebetween.

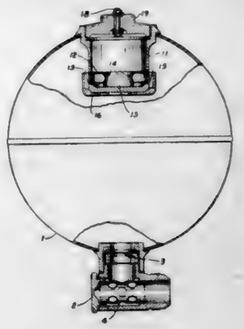
2,530,633

PYROTECHNIC-OPERATED FIRE EXTINGUISHER

Edward R. Scholz, Elmira, N. Y., assignor to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York

Application April 11, 1949, Serial No. 86,783

8 Claims. (Cl. 169—26)



1. A container for fire-extinguishing liquid, having a rupturable diaphragm closure at its lower end; an open topped, pyrotechnic container cup seated in an aperture in the container wall at its upper end and depending into the container, said cup having radially directed metering orifices spaced around the lower part of its

side wall; a charge-supporting floor member in the container cup having a central opening and, around the opening, a depending flange spacing the floor member above the said metering orifices and forming an annular chamber within the said lower part of the container cup, said flange having openings of greater area than the said meter orifices; a baffle cup secured to the outside of the bottom of the container cup, with its side wall outwardly spaced from and extending upwardly beyond the said metering orifices; a sealed, pyrotechnic charge container seated in the container cup on said floor member, said charge container having a rupturable bottom wall; and a closure cap for the open top of the container cup.

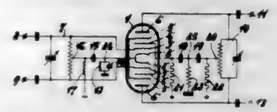
2,530,634
PAD OF PAPER SHEETS
Levyn Ray Schuessler, University City, Mo.
Application April 1, 1947, Serial No. 738,689
2 Claims. (Cl. 282—22)

1. A plurality of sheets of material arranged in a stack in which original sheets and carbon copy sheets are arranged alternately, said sheets of material being recessed at an edge of the stack of sheets, and means for binding said sheets together to provide a pad, said binding means serving to bind together spaced edge portions of the pad of sheets which are located beyond opposite ends of said recess, and said sheets being unbound throughout said recess, all of the sheets of said pad being provided with corresponding perforations for initially binding said sheets in a binder, and said carbon copy sheets being provided with additional perforations for binding said carbon copy sheets in a second binder after their removal from the first-mentioned binder.

2,530,635
SILICEOUS SHEET MATERIAL COATED WITH PLASTICIZED ORGANOSILICON CONDENSATE
Frank J. Sowa, Cranford, N. J.
No Drawing. Application July 25, 1945, Serial No. 607,099
9 Claims. (Cl. 117—122)

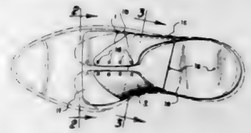
1. As a new article of manufacture, a flexible backing of high heat resistant fibrous siliceous sheet material coated with an adhesive composition containing an organosilicon condensate, the said organosilicon condensate consisting essentially of an incompletely condensed hydrolysis product of a compound of the class R_2SiX_2, in which R is an aliphatic hydrocarbon radical, at least one R having a branched chain, and X is a material selected from the group consisting of halogen atoms and alkoxy groups, and containing as a plasticizer a liquid organosilicon compound selected from the group consisting of mono- and di-fluoro alkyl silanes in which the sum of the carbon atoms in the alkyl groups exceeds 7.

2,530,636
PUSH-PULL HIGH-FREQUENCY AMPLIFYING APPARATUS
Maximiliaan Julius Otto Strutt and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 14, 1947, Serial No. 728,710
In Belgium November 3, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 3, 1964
4 Claims. (Cl. 179—171)



1. A high-frequency amplifier circuit comprising a pair of electron discharge systems arranged in push-pull relation, each system including a cathode, a control grid, a screen grid and an anode, the cathodes of said systems being interconnected, the screen grids of said systems being interconnected, an input impedance connected between the control grids of said systems, an output impedance connected between the anodes of said systems, means coupling said interconnected cathodes to the centerpoint of one of said impedances, means coupling said interconnected screen grids to the centerpoint of the other of said impedances, and an inductance coupled between the centerpoints of said input and output impedances and having a value substantially neutralizing the reaction caused by in-phase voltages set up at the anodes on the input impedance.

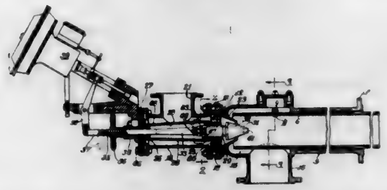
2,530,637
ARCH SUPPORT
Byron M. Taylor, San Diego, Calif.
Application March 11, 1947, Serial No. 733,779
1 Claim. (Cl. 36—8.5)



In an arch support of the class described, the combination of a cantilever arch supporting member having a portion arranged to be connected to the sole of a conventional shoe and having an integral portion in connection with said portion adapted to engage the sole of a conventional shoe extending upwardly and adapted to be positioned adjacent the side of said shoe and extend into close proximity to the laced portion of said shoe and a strap adapted to be connected to the inner side of a conventional shoe in opposed relation to said cantilever portion of said cantilever supporting member and arranged to be secured in connection therewith whereby said cantilever portion maintains said strap in tension beneath the instep of a person's foot.

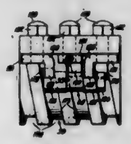
2,530,638
LIQUID HEATER CONTROL
John C. White, Madison, Wis.
Application March 11, 1947, Serial No. 733,973
2 Claims. (Cl. 261—62)

1. In a liquid heating apparatus having a combining tube, means for delivering a stream of liquid in the form of a hollow cone into said tube, a relatively fixed nozzle providing a valve seat adjacent to its outlet end and adapted to discharge into said hollow stream, a tapered valve projecting from within said nozzle into the tube and movable toward and from said seat for controlling the discharge from said nozzle, means for supplying steam to be discharged from said nozzle under control of said valve, the tip of said valve normally being disposed within the hollow



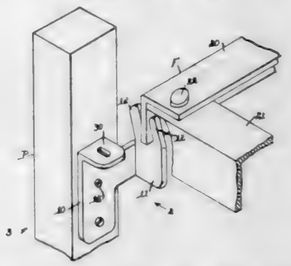
conical portion of said liquid stream, means operatively associated with said valve for moving the same positively from said seat, and means for counterbalancing a portion of the forces tending to close said valve, said means comprising a balancing chamber, a piston upon which the valve is mounted presenting a pressure area to the interior of the chamber, and a passage through the valve and piston establishing communication between the area at the tip of said valve and said chamber.

2,530,639
RADIO FREQUENCY TUNED CIRCUIT AND TUBE SOCKET ASSEMBLY
Sidney Y. White, Bayside, N. Y., assignor to Victor S. Johnson, Chicago, Ill.; Victor S. Johnson, Jr., administrator de bonis non of said Victor S. Johnson, deceased
Continuation of forfeited application Serial No. 506,373, October 15, 1943, which is a division of application Serial No. 468,195, December 8, 1942, now Patent No. 2,451,643, dated October 19, 1948. This application January 31, 1947, Serial No. 725,685
9 Claims. (Cl. 250—16)



1. In a radio unit, in combination, a tuned circuit assembly comprising an insulating plate, a cylindrical coil form attached to the plate, having its axis disposed in parallelism with the body of the plate, a coil composed of thin metallic ribbon wound on the form, conductive terminal blocks on the plate and directly engaging the coil, and conductive screws passed through the plate and threaded into the respective terminal blocks, the heads of said screws being conductively connected with the coil through the associated blocks and adapted to serve as terminal contacts, and a socket assembly comprising a tube socket in the form of a flat plate of insulating material, said assembly including contacts for the tube elements at radio frequency potential to ground, and means clamping said contacts to the socket and forming terminal contacts for engaging the cooperating terminal contacts of the tuned circuit assembly, and a supporting framework through which the tuned circuit assembly and the socket assembly are mounted and maintained in cooperative relation to one another.

2,530,640
SPRING-FRAME SUPPORTING BRACKET
Howard G. Wickman, Gardner, Mass., assignor to Children's Furniture Corporation, Gardner, Mass., a corporation of Massachusetts
Application September 14, 1946, Serial No. 697,006
1 Claim. (Cl. 5—207)



In the combination of a crib spring frame having end and side members with downwardly projecting vertical flanges, and supporting brackets for said spring frame, that improvement which consists in providing a one-piece sheet-metal bracket having an attaching portion and having an angularly-disposed and laterally-offset portion which directly receives and supports one of said frame end members, said laterally-offset portion having a deep notch which forms spaced upstanding fingers adapted to receive the vertical flange of the supported frame end member and to thereby prevent longitudinal displacement of said frame, and one of said upstanding fingers substantially engaging the inner face of the vertical flange of one of said frame side members and thereby preventing lateral displacement of said crib spring frame toward said finger.

2,530,641
KITE
Edward N. Winslow, Chagrin Falls, Ohio
Application July 13, 1948, Serial No. 38,422
6 Claims. (Cl. 244—153)

1. In a kite, a flexible polygonal sheet of preformed concavo-convex pyramidoidal contour, means for stretching the periphery of the sheet into taut polygonal shape comprising a continuous filamentary element extending about the periphery of the sheet and secured thereto, a longitudinal frame structure attached at its ends to the opposite longitudinal extremities of the sheet, and a transverse frame structure attached at its ends to the opposite lateral extremities of the sheet, said transverse structure being disposed to the lee of the longitudinal structure and being translatable rearwardly relative to the longitudinal when wind forces in flight urge the lateral extremities of the sheet rearwardly, and a ground

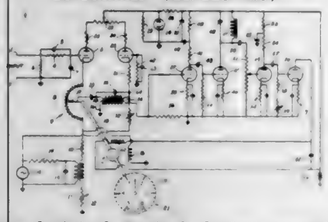
control line attached to the sheet at the vertex of the windward surface to maintain the sheet in taut pyramidoidal form in flight.

2,530,642

ELECTRICAL CONTROL DEVICE

Michel N. Yardeny and Adolph Razdowitz, New York, N. Y.; said Razdowitz assignor to said Yardeny

Application July 2, 1948, Serial No. 36,768
12 Claims. (Cl. 318—29)



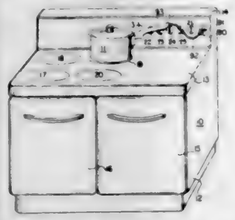
1. An electrical control device comprising a first and second vacuum tube, a source of space current for both of said tubes, biasing means normally maintaining the operating points of said tubes on a non-linear portion of their characteristics, first and second output circuits for said tubes, respectively, a source of alternating current, circuit means coupling said source to the inputs of said tubes so as to modulate the respective space currents thereof, a controlled element, driving means for displacing said element, energizing means for said driving means connected between correlated points of said output circuits, respectively, said correlated points being normally balanced in such manner that said energizing means will remain inoperative, input means for applying a control voltage to one of said tubes so as to displace the operating point thereof, whereby said correlated points will be unbalanced and said driving means will be energized, and circuit means actuatable by said driving means to restore said correlated points to balance.

2,530,643

THERMAL CONTROLLED COOKING VESSEL

Leo F. Berg, Oak Park, and Walter R. McDowell, Westchester, Ill., assignors to Hotpoint Inc., a corporation of New York

Application March 26, 1948, Serial No. 17,248
4 Claims. (Cl. 200—136.5)



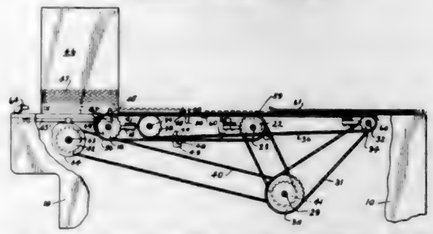
1. A cooking vessel comprising wall structure, an elongated handle, means including cooperating parts respectively carried by said wall structure and by the inner end of said handle for detachably securing the inner end of said handle to said wall structure, a cavity formed in the inner end of said handle adjacent to said wall structure and closed to the exterior, a thermostatic control switch arranged within said cavity and disposed in good heat conducting relation to said wall structure, a recess formed in the outer end of said handle and open to the exterior, an electrical connecting fixture secured within said recess to said handle and closing the interior of said handle to the exterior and adapted detachably to receive another cooperating connecting fixture from the exterior, and wiring extending through said handle and interconnecting said control switch and said first-mentioned connecting fixture.

2,530,644

CARTON BLANK FEEDER

Richard A. Bloom, Chicago, Ill., assignor to National Biscuit Company, New York, N. Y., a corporation of New Jersey

Application August 21, 1946, Serial No. 691,961
7 Claims. (Cl. 271—35)



1. In a machine of the class described, the combination of a frame, an endless gripper chain mounted thereon with upper and lower runs, spaced grippers on said chain, an endless carrier chain mounted on said frame with upper and lower runs, said gripper and carrier chains being parallel with their upper runs moving in the same direction and overlapping in part, spaced pushers mounted on said carrier chain, means for driving said chains continuously at uniform speeds, a hopper for holding a stack of carton blanks over the gripper chain where it rises from its lower to its upper run, means for pulling down the forward edge of the bottom blank in the stack as a gripper rises to the upper run of the chain, means for actuating the gripper to grasp the forward edge of said bottom blank and carry it forward over the overlapping part of the carrier chain, means for actuating the gripper as it reaches the end of its upper run to release the blank and leave it over the carrier chain, and means for timing the carrier chain so that one of said pushers will engage the blank and carry it forward when it has been released by the gripper.

2,530,645

CATALYST CONTACTING APPARATUS

Theodore Bockman, Evanston, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application December 30, 1947, Serial No. 794,611
2 Claims. (Cl. 23—288)

1. An improved apparatus for contacting and stripping finely divided solid particles, which comprises in combination, an enclosed vertical chamber, a continuous partitioning wall extending from the bottom of said chamber to an intermediate point therein, said wall forming thereby a centrally positioned columnar stripping section and an annular shaped contacting section, vertically spaced tiers of openings in the upper portion of said partitioning wall with the openings in each tier spaced around the periphery of said wall, swinging check doors having pivoted supporting means at the upper end thereof and mounted on the inside of said openings in the upper portion of said stripping section, said doors being operative to swing freely inward only and

thereby prevent the flow of solid particles outwardly from the interior of said stripping section into said contacting section, inlet means for introducing a fluidized particle stream to the lower end of said annular contacting section whereby to maintain a dense phase particle bed therein, additional inlet means for introducing a

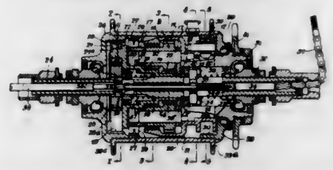
stripping medium to the lower end of said stripping section, means for withdrawing stripped solid particles from the lower end of said stripping section, and outlet means for discharging resulting gaseous products substantially free of solid particles from the upper portion of said chamber.

2,530,646

EPICYCLIC VARIABLE-SPEED GEARING

William Brown, Nottingham, England

Application June 20, 1947, Serial No. 756,077
In Great Britain October 7, 1938
Section 1, Public Law 690, August 8, 1946
Patent expires October 7, 1958
6 Claims. (Cl. 74—763)



1. An epicyclic variable speed gear comprising first and second epicyclic gear trains, each consisting of a sun, a planet carrier and an annulus member, a driving member, driving selector means for selectively coupling said driving member alternatively to the planet carrier or annulus of the first gear train for overdrive ratio and either direct drive or underdrive ratio respectively relative to said driving member, a fixed member, a driven member, pawl and ratchet means connecting the planet carrier of the first gear train to the driven member, second pawl and ratchet means connecting the annulus of the first gear train to the driven member, means for tripping the pawl of said second pawl and ratchet means out of engagement with said driven member when the driving selector is coupled to the annulus of the first gear train whereby drive is transmitted to said driven member alternatively through said first or said second pawl and ratchet means from the planet carrier of the first gear train or the annulus of the first gear train, means connecting the sun member of the first gear train to the planet carrier of the second gear train and means for connecting the sun member of the second gear train to said fixed member, characterised in that the annulus of the second gear train is permanently connected to the driven member, whereby the two gear trains may be coupled for overdrive and underdrive ratios, so that relative to the direct ratio, the gear ratio increase is less than the gear ratio decrease.

2,530,647

GARMENT

Ernest Buchler, Sunnyside, N. Y., assignor to Arkay Infants Wear, Inc., Richmond Hill, N. Y., a corporation of New York

Application November 12, 1948, Serial No. 59,689
1 Claim. (Cl. 128—287)

A garment comprising a body having front and rear sections, said sections having side edges permanently secured together and forming seams along opposite sides of the body, said sections having lower portions tapered downwardly and terminating in depending tongues initially free and having lower ends overlapped and detachably secured and therby forming a releasable crotch portion and defining leg openings at opposite sides thereof, a lining consisting of sheets of moisture-impervious material secured against the inner faces of said front and rear sections, moisture-impervious sheet elements disposed against the lining of the front and rear sections and having upper edges secured along the upper edges of the said sections and their side edges being secured to the front and rear sections, said sheet elements being free along their lower edges and forming pockets with the linings and having lower ends open for the full width of the pockets and spaced upwardly from the leg openings, and a wide pad of moisture-absorbing material folded midway its length and inserted into the body through the open lower end thereof with its end portions extending upwardly and fitting snugly into the pockets through the open lower ends thereof for substantially the full length of the pockets, said tongues being then secured to each other to form the crotch portion and to removably hold the pad in place.

2,530,648

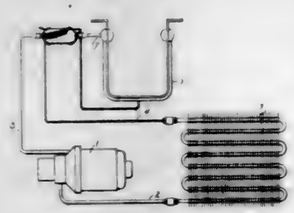
COMBINATION ACCUMULATOR, HEAT EXCHANGER, AND METERING DEVICE FOR REFRIGERATING SYSTEMS

Martin T. Cahenzli, Jr., Chicago, Ill., and Glenn Muffly, Springfield, Ohio, assignors to The Harry Alter Company, Chicago, Ill., a corporation of Illinois

Application September 26, 1946, Serial No. 699,490
9 Claims. (Cl. 62—126)

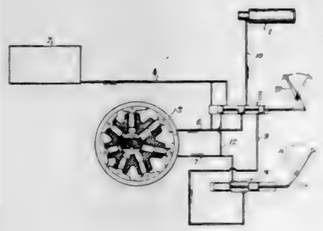
1. A combined metering tube and heat exchanger unit for connection in a refrigerating

system, including a housing arranged for connection near the evaporator in the suction side of the system, and a metering tube for connection in the pressure side of the system, said tube having a relatively large portion thereof



inside said housing, said portion on the incoming side affording relatively low restriction and on the outlet side being coiled into a coil of small inside diameter to provide high restriction to the flow of refrigerant.

2,530,649
FUEL SUPPLY SYSTEM FOR CONTINUOUS COMBUSTION TURBINE TYPE AIRCRAFT
Frederick Henry Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application January 14, 1948, Serial No. 2,341
In Great Britain December 24, 1947
5 Claims. (Cl. 158—36.4)

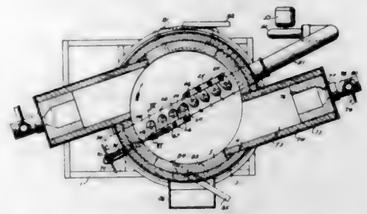


1. A fuel supply system for aircraft engines of the continuous combustion turbine type, comprising a fuel reservoir, a burner nozzle, pump means, a change-over valve casing, a valve in said casing shiftable between a normal operating position and a stopping position, and conduit means interconnecting the pump means with the reservoir and with the burner nozzle, respectively, by way of the valve casing, for supply of fuel during normal operation to the nozzle and return of unused fuel therefrom during stopping, said conduit means including two by-pass passages, one between the nozzle and the intake side of the pump means and the other between the delivery side of the pump means and the reservoir, respectively, and said valve being formed with lands and passages arranged to close off said by-pass passages during normal operation and leave open the normal pump supply and delivery conduits, but to open the by-pass passages and close off the normal pump supply and delivery conduits, for withdrawing from the nozzle during stopping the unused fuel which was theretofore supplied to it during normal operation, and for returning the so-withdrawn fuel to the fuel reservoir.

2,530,650
METAL DEACTIVATOR
Joseph A. Chenicek, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 16, 1947, Serial No. 741,938
2 Claims. (Cl. 44—73)

1. Olefinic gasoline containing a metal compound which normally catalyzes oxidative deterioration and additionally containing, as a metal deactivator, a small mount of the condensation product formed by the mixing of approximately equimolar proportions of an ortho-hydroxy aromatic aldehyde and an aziridine having a hydrogen atom attached in the 1-position.

2,530,651
SAND RECOVERY APPARATUS
Alfred C. Christensen, Chicago, Ill., assignor, by mesne assignments, to Herbert S. Simpson, Evanston, Ill., as trustee
Application May 2, 1946, Serial No. 666,756
6 Claims. (Cl. 263—21)

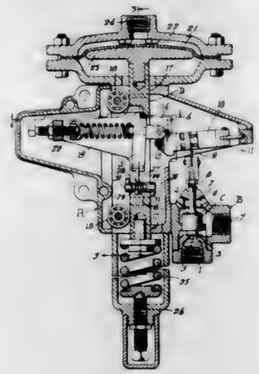


1. In a material recovery apparatus, including a material processing furnace having a housing enclosing a combustion chamber, means for depositing a batch of material into the housing, a rotatable supporting table forming the bottom of the housing and receiving the materials to support the same and carry the same through a circular path, an air supply pipe supported in the walls of the housing and projecting through the combustion chamber, groups of stationary and adjustable plows supported on the pipe within the housing, said plows having passages therein communicating with the air supply pipe to permit air to be discharged from the plows on opposite sides thereof onto the material to be treated in the housing, means for rotating the table to carry the material into the field of operation of the stationary and the adjustable groups of plows to aerate said material while it is mixed and plowed, and burner means for directing flames into the housing to subject the material to burning and oxidation treatments while undergoing the mixing, plowing and aerating treatments.

2,530,652
SNAP-ACTION CONTROL MECHANISM
Verner F. Davis, West Orange, N. J., assignor to Atlas Valve Company, Newark, N. J., a corporation of New Jersey
Application January 31, 1948, Serial No. 5,671
1 Claim. (Cl. 74—110)

A snap-acting control mechanism including a casing, a control device comprising a yoke having a transverse opening therethrough intermediate its ends, guide means adjacent the ends of said yoke for reciprocably mounting the yoke in said casing, an element to be controlled disposed at one side of said yoke and movable alternately in opposite directions, an operating lever at said side

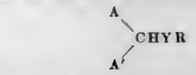
of said yoke and fulcrumed to swing in the directions of reciprocation of said yoke, a connection between said operating lever and said element to actuate said element upon swinging of said lever, a trip member mounted on said yoke within said transverse opening to move in directions transverse to the direction of movement of said yoke, said operating lever having two oppositely inclined meeting surfaces and said trip member having a part to contact and move along said surfaces, an abutment on said yoke at the side thereof opposite said operating lever, and a spring interposed between said abutment and said trip member and normally pressing said part of said trip member into yielding contact with one or the other of said surfaces, whereby upon



movement of said yoke a predetermined distance in either of opposite directions said portion of said trip member moves successively along one of said inclined surfaces to the meeting point of said surfaces and then into contact with the other said surface whereupon said trip member is actuated by said spring to swing said operating lever in one direction, said element being guided in its movement, said operating lever being fulcrumed at one end on a knife-edge bearing and having said inclined surfaces at its other end, said connection between said operating lever and said element being a strip of spring material, and said element and said trip member being associated with said operating lever so as to hold the lever against displacement from said knife-edge fulcrum bearing.

2,530,653
BENZHYDRYL ESTERS AS INSECTICIDES
Peter L. de Benneville, Philadelphia, Pa., and Howard D. Segool, Flushing, N. Y., assignors to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application April 11, 1946, Serial No. 661,354
2 Claims. (Cl. 167—30)

1. An insecticidal composition comprising a compound having the structural formula

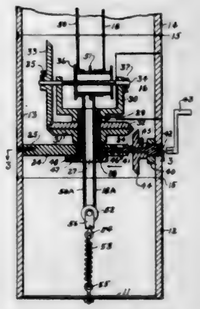


in which A and A′ each denote the phenyl radical, R denotes a member selected from the group consisting of alkyl groups and halo-alkyl groups containing not over 6 carbon atoms and Y denotes a radical selected from the group consisting of the radicals

—OCO—and—$(OCH_2CH_2)_n$OCO—

n denoting a whole number from 1 to 3, dispersed in an aqueous emulsion.

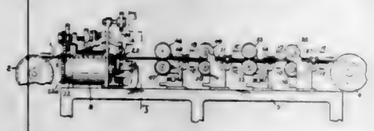
2,530,654
FLAGPOLE
Robert Ellis, New York, N. Y.
Application December 3, 1945, Serial No. 632,474
5 Claims. (Cl. 116—173)



1. A flag-pole comprising a fixed hollow pole, a hollow flag-pole extension rotatably mounted to the upper end of said fixed hollow pole, a flag flying at the upper part of said hollow rotatable flag-pole extension, a pulley mounted to the top of said hollow rotatable flag-pole extension, a side hole in said rotatable flag-pole extension a short distance below the lower edge of said flying flag, a reel rotatable on a horizontal axis and bearing between two upstanding arms of a yoke, said yoke being mounted on a hollow vertical shaft within the lower part of said hollow fixed pole and normally free to rotate thereon, a lower pulley swivelly mounted beneath the said hollow vertical yoke shaft, means for tensioning said lower pulley downwards, a rope looped around said lower pulley and having both ends of said rope extending upwards therefrom through said hollow vertical yoke shaft and looped around said reel and then extending upwards through said hollow fixed pole, one end of said rope extending further through the said rotatable flag-pole extension and over the upper pulley thereon down to and attached to said flying flag, the other end of said rope emerging from the hollow interior of said fixed pole and said lower part of said hollow flag-pole extension through the aforesaid side hole therein and attached to said flying flag, and means for hauling the said flying flag into the hollow interior of said hollow fixed pole through the aforesaid side hole by rotating said reel on its horizontal axis, said rotating means comprising a bevel friction wheel attached to the shaft of said reel, a horizontal bevel friction wheel free to rotate about said hollow vertical yoke shaft and frictionally contacting aforementioned bevel friction wheel, and another bevel friction wheel normally out of contact with said horizontal friction wheel and attached to another horizontal shaft, a square socket on the outer end of said last named horizontal shaft, said square socket being accessible from the outside of said hollow fixed pole, the other end of said horizontal shaft terminating in a point normally out of contact with said hollow yoke shaft, and a removable hand crank provided with a square projection for in-

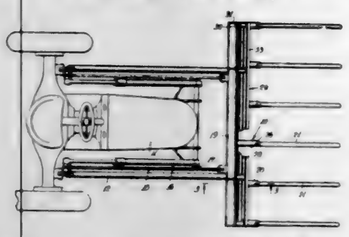
sertion into said square socket with means for rotating said friction wheel attached to the same shaft and causing said friction wheel to frictionally contact the aforesaid horizontal friction wheel and simultaneously prevent the aforementioned hollow vertical yoke shaft from rotating by contacting aforementioned pointed shaft end therewith.

2,530,655
MACHINE FOR APPLYING PRESSURE SENSITIVE TAPE TO CONDUCTORS
James L. Entwistle, Cranston, R. I., assignor to James L. Entwistle Co., Pawtucket, R. I., a partnership consisting of Margherita C. Entwistle and James L. Entwistle
Application April 4, 1946, Serial No. 659,634
9 Claims. (Cl. 216—29)



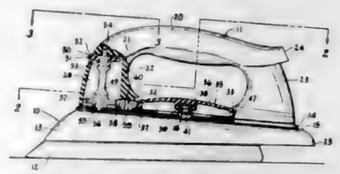
5. In a method of applying pieces of pressure sensitive adhesive tape from a supply roll to a longitudinally moving conductor, the steps of severing a piece of tape, carrying said piece into a position above and substantially parallel to the conductor, pressing the tape at a point between its ends to the conductor, and subjecting the tape to a plurality of successive wiping operations to press the free ends of the tape around the conductor.

2,530,656
BRUSH RAKE
John F. Fall, New Paltz, N. Y.
Application February 7, 1947, Serial No. 727,165
2 Claims. (Cl. 56—27)



1. In a rake of the character indicated, a pair of transversely spaced tubular support members for pivotal attachment at one end to a vehicle, a transversely extending torque-tube frame member of diameter larger than the diameter of said support members, said torque-tube frame member having transversely spaced pairs of diametrically opposed openings, said support members each engaging separate pairs of openings and being welded to said torque-tube frame member at said openings, and a plurality of tooth-socket members of tubular material of a diameter less than the diameter of said torque-tube frame member and each engaging further separate pairs of said openings and being welded to said torque-tube frame member at said openings, said tubular tooth-socket members and said tubular support members facing in generally opposite longitudinal directions away from said torque-tube frame member, whereby said torque-tube frame member may lock said tooth members against rotation relatively to said tubular support members, so that a rigid rake framework may be elevated by pivoting from points longitudinally spaced from said torque-tube frame member.

2,530,657
ELECTRIC IRON
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 7, 1946, Serial No. 695,395
2 Claims. (Cl. 38—90)

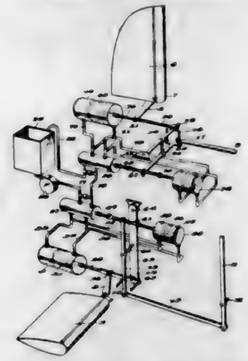


1. The combination with an electric iron having a sole plate, a cover shell thereon, and a thermostat device rotatably associated with said sole plate and located beneath said cover shell and having a shaft projecting upwardly of said shell, of an operating handle for said iron having a hand grip and a supporting leg, a temperature indicating dial attached to said shaft of said thermostat device and immediately overlying said cover shell, temperature indicating indicia near the rim of said dial, said rim of said temperature indicating dial being provided with a serrated surface above said cover shell and adjacent said supporting leg, temperature adjusting means movably mounted in said supporting leg and connected to said serrated surface of said temperature indicating dial, and means projecting through said supporting leg for manually moving said adjusting means and thus rotate said temperature indicating dial and its indicia to adjust said thermostat device to the desired temperature.

2,530,658
TOY SPRING PISTOL
John Gricar, St. Charles, Mich.
Application March 23, 1946, Serial No. 656,585
1 Claim. (Cl. 124—27)

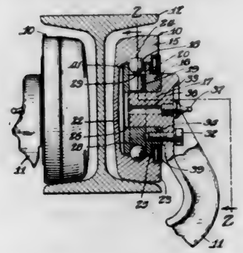
In a toy pistol, a metal case comprising spaced-apart side walls the front ends of which terminate in a cylindrical barrel, a bifurcated plug formed with beveled ends slidable in said barrel, a plunger pivotally connected to the bifurcated plug with its rear end extending through the butt end of the pistol spaced-apart opposed pairs of inwardly projecting indents in the side walls of the case, a stationary stop member engageable in said indents and through which said plunger projects, a spring interposed between the stop and said plug, a transversely disposed pin in said case, teeth on said plunger and engageable with said pin, a striker on said plunger and engageable with said stop when the plunger is released, and an enlarged section on the free end of said plunger to facilitate operation thereof.

2,530,659
AIRCRAFT BOOSTER CONTROL SYSTEM
Thomas C. Hill, Parkville, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application March 23, 1946, Serial No. 656,611
8 Claims. (Cl. 244—85)



1. A booster system for the control surfaces of an aircraft including a rudder and an elevator, one hydraulic cylinder including a piston and rod for actuating said rudder and another cylinder for actuating said elevator, said booster system comprising a reservoir, a pump, and two normally open restrictor valves connected in series by conduits to form a complete fluid flow circuit through which fluid may be circulated by the pump continuously and uninterruptedly, the chambers on each side of the piston in each hydraulic cylinder being in constant fluid communication with said fluid circuit, said chambers connected to the circuit on each side of a restrictor valve, control means to actuate each said valve to variably restrict the flow of fluid therethrough without interrupting the flow of fluid in said circuit, so that a correspondingly variable differential in pressure will be created in the circuit on each side of the restrictor valve to actuate said piston in said cylinder.

2,530,660
BEARING
Arthur V. Hoeffleur, Chicago, Ill., assignor to Conveyor Systems, Inc., Chicago, Ill., a corporation of Illinois
Application July 26, 1946, Serial No. 686,314
2 Claims. (Cl. 308—198)



1. A trolley comprising a wheel including a solid side and a flange protruding from the peripheral edge portion thereof, said flange having an annular raceway provided in the central inner periphery thereof and an internal shoulder adjacent the outer face of the flange, an inner member positioned within said flange in closely spaced relation thereto and co-axial therewith, said inner member having an annular raceway provided in the outer periphery thereof, the outer portion of said member having a shoulder thereon, the surface of which is in substantial alignment with the surface of the shoulder on the flange, the said surfaces cooperating with the respective adjacent peripheral surfaces of the flange and the inner member to define an annular recess for the reception of a sealing member, balls positioned in operative engagement with said raceways between said outer and inner members, said raceway in said inner member being of sufficient depth that the sidewalls thereof extend beyond the centers of said balls when said balls are in operative engagement with said raceway, said inner member having a substantially radially extending passage formed therein through which balls may be inserted into said raceways, a sealing member in the annular recess and in engagement with said outer and inner members at the side edge portions thereof opposite said solid side wall, a plug positioned in said passage and adapted to retain said balls in said raceways, a supporting bracket including an arm and a hub member extending substantially perpendicularly thereto, said hub member extending into said inner member coaxially therewith, the outer periphery of said hub member being in engagement with one end of said plug, means attaching said supporting bracket to said inner member, and the said passage being disposed at an angle with respect to a vertical plane bisecting the axes of the hub and the said attaching means and the bracket and which angle is above the horizontal axis of the hub when the wheel is disposed vertically so that pounding of the balls on the plug in the passage is minimized.

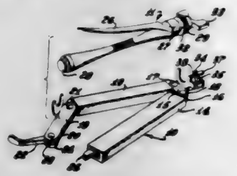
2,530,661
RECOVERY OF ETHYL CHLORIDE
Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 31, 1946, Serial No. 673,609
4 Claims. (Cl. 260—652)

1. A process for separating ethyl chloride from a mixture comprising essentially saturated hydrocarbons and ethyl chloride which comprises contacting said mixture with chlorosulfonic acid to dissolve therein said ethyl chloride, separating the solution of ethyl chloride in chlorosulfonic acid from the treated hydrocarbons, and distilling said solution to separate ethyl chloride therefrom.

2,530,662
HAIR WAVING DEVICE
Jack Newmark, Los Angeles, Calif.
Application March 13, 1948, Serial No. 14,729
1 Claim. (Cl. 132—33)

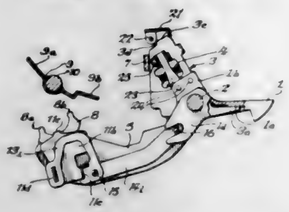
In a hair waving device: a pair of elongated clamp members; upper and lower link members pivotally connecting said clamp members at respective ends thereof, said upper link member disposed at the upper sides of said clamp members respectively, and said lower link member disposed at the lower sides of said clamp members respectively; a pin for each clamp member extending through said upper and lower link members; a bearing member extending upwardly from said upper link; a spindle having a reduced collar portion near one end thereof forming an

inward shoulder, said collar portion being receivable in said bearing member for rotatably mounting said spindle; a ratchet wheel mounted on said spindle adjacent said collar on that side of said collar opposite said inward shoulder, said ratchet wheel having a root diameter greater than the diameter of said collar, said ratchet wheel forming an outward shoulder for said collar; an operating handle secured to said spindle adjacent said ratchet wheel; a leaf spring mounted on one of said pins and clamped between one of said clamp members and one of



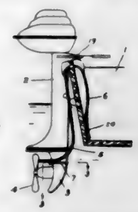
said links, said spring extending from its mounting pin at one side of said ratchet wheel around the lower portion of said ratchet wheel to the other side of said ratchet wheel, said spring having a free end extending substantially to the top of said ratchet wheel; a pawl mounted on the upper portion of said spring engaging with the upper portion of said ratchet wheel; and a stop member secured to said bearing member and extending perpendicularly therefrom, said stop member limiting movement of the free end of said spring.

2,530,663
TUNING MECHANISM
Marion J. Pifer, Williamsville, Alvin D. Meyer, Kenmore, and Harold J. McGarvey, Buffalo, N. Y., assignors to Colonial Radio Corporation, Buffalo, N. Y.
Application April 10, 1948, Serial No. 20,348
8 Claims. (Cl. 74—10.31)



1. In mechanism of the class described, a control shaft to be set to predetermined angular positions and having lateral extensions to be engaged by a positioning element, a positioning element having an arcuate base concentric with said shaft when said element is fully engaged with said shaft and said shaft is in the position determined by engagement with said element, and a rocker arm carrying said element, said arm having an arcuate seat of the same radius as said arcuate base and concentric therewith, clamping mechanism carried by said rocker arm for securing said element in desired position on said rocker arm, a shaft on which said rocker arm is mounted, and behind which said element projects, and an operating lever pivotally mounted on and extending forward of said last mentioned shaft and operatively connected to said rocker arm to rock said rocker arm when said lever is depressed, and a connection between said clamping mechanism and said operating lever for releasing said clamping mechanism when said operating lever is raised above the position it occupies when not depressed to actuate said rocker arm.

2,530,664
BOAT BAILER
Carl Fraser Pye, Winnipeg, Manitoba, Canada
Application November 15, 1948, Serial No. 59,996
5 Claims. (Cl. 115—0.5)

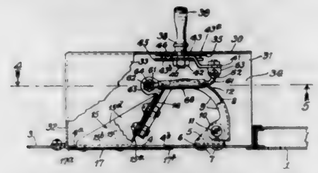


1. As an article of manufacture; a boat bailer, comprising: a V-shaped bracket member; a keeper member releasably secured across the open end of said bracket member, for clamping movement thereon; a flexible tubing; a wire having one end secured to said members and the other end releasably receivable through the side of said flexible tubing and projecting therealong therein.

2,530,665
BEARING
Raymond R. Searles, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application July 21, 1943, Serial No. 495,583
13 Claims. (Cl. 308—190)

1. A device of the character described comprising a bimaterial unitary substantially integral rotatable structure including a circular body member in the form of a pulley or similar article and formed on its periphery to cooperate with a driving means running thereon, a single one piece preformed continuous hardened metal anti-friction bearing raceway ring mounted in said body concentric with said periphery forming a track for the rolling elements and of sufficient thickness to carry the normal rolling load, said body member being of different material than the ring but of a degree of hardness to withstand the load without materially changing its repose dimensions, and said ring having an outer surface permanently bonded to the material of the body to mount and hold the ring permanently in a given position in said body whereby the track surface may be finished with respect to the pitch line of said working periphery after mounting of the ring in the body and bonding it thereto so that the track surface may be brought into exact axial and concentric alignment with the pitch line of the working periphery of the body member.

2,530,666
VEHICLE VENTILATOR OPERATOR
Carl A. Sigel, Chicago, Ill., assignor to Chicago Forging and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 10, 1949, Serial No. 98,270
2 Claims. (Cl. 268—30)

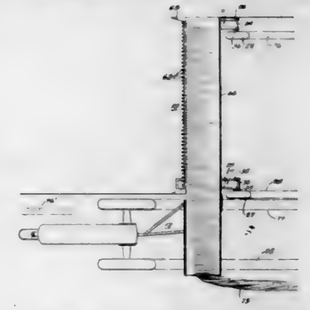


1. In a manually operable ventilator closure for car bodies and the like adapted to be actuated by a rider seated in the car, a deflecting and supporting structure positioned within the car body and including a wall generally parallel with the side wall of the car body and spaced inwardly therefrom, the side wall of the car body having an air inlet aperture aligned therewith, a closure for said air inlet aperture and a support therefor including a movable member having an inner end portion hinged within the car body and outer end portion, to which the closure is secured, adapted to extend outwardly through the air inlet aperture when the closure is in open position, a hinge support positioned within the car body, the inner end of the movable member being pivoted for rotation in relation thereto about an axis lying in a plane generally parallel with but positioned inwardly of the side wall of the car body, and actuating means for the closure including a handle mounted on said wall of the supporting structure for rotation about an axis generally perpendicular to the axis of the movable member, said handle projecting inwardly from the said wall, a lever on the opposite side of said wall mounted for rotation in unison with the handle, and an actuating connection between said lever and said closure including a rod, a universal connection between one end of said rod and the closure, and a universal connection between the opposite end of said rod and the lever.

2,530,667
METHOD OF CONSTRUCTING HIGH CHAIR TRAYS
Roger R. Smith, Gardner, Mass.
Application July 7, 1945, Serial No. 603,708
2 Claims. (Cl. 144—309)

1. The method of forming tray-like members, which comprises first securing a plurality of tongue and groove interfitting wood strips of similar width and length together in edge to edge relationship to form a core member, then treating the core member to soften the strips thereof, then pressure shaping the core member to form a recess on one surface thereof within boundary edges of the core member and of predetermined contour, then softening a veneer and pressure shaping the same to form a depressed portion therein within boundary edges thereof and conforming in contour with and adapted to seat snugly in the recess of the core member, drying the veneer and core member, then adhering the veneer and core member together under applied heat and pressure, and then trimming the resulting product outwardly of and paralleling the contour of the recess in one surface thereof in producing the final tray member.

2,530,668
WINDROWER LEVELING MEANS
William B. Tallman, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 14, 1946, Serial No. 676,823
2 Claims. (Cl. 56—209)

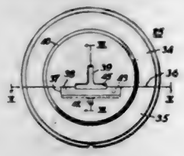


2. In a windrower having an elongated main frame, a cutter bar and sickle disposed on said main frame adjacent the forward edge thereof, a vertically extending frame rigidly attached to said main frame, a draft bar pivotally attached to the forward edge of said main frame, a pair of spaced apart support wheels attached to the rearward portion of said main frame, and a leveling mechanism, the improvement which comprises providing a leveling mechanism which includes a rotatably supported shaft adapted to be connected to said draft bar, a plurality of radially extending arms which are attached to said shaft for rotation therewith, said arms including a spring engaging arm, a forwardly and upwardly extending control lever, and an upwardly extending connecting arm, a spring which is connected to said spring engaging arm and which biases said connecting arm rearwardly, locking means operable to selectively lock said control lever in a predetermined position, and a rearwardly and upwardly extending connecting link which is hingedly attached at one end to said connecting arm and which is adapted to be connected at its other end to said vertically extending frame.

2,530,669
EXTRUSION APPARATUS
Kirby F. Thornton and Louis W. Schumm, New Kensington, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 30, 1944, Serial No. 565,870
2 Claims. (Cl. 207—17)

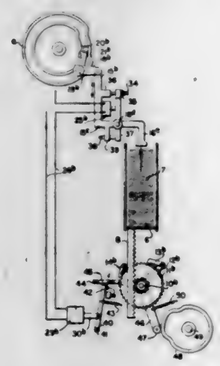
1. In a horizontal extrusion press having an axially translatable tool carrier provided with

an open top die support, a die in said support adapted for enabling the production of stepped extrusions, said die comprising complemental top and bottom die members, an axially extending and forwardly removable insert member interposed therebetween in confined and supported relation, with a die aperture formed partly in said top member and partly in said insert



member, and a locking connection between said insert member and said bottom member to prevent forward removal of said insert member until it is first raised slightly with respect to said bottom member, said top die and insert members being replaceable by others defining an enlarged die aperture after a portion of a billet has been extruded.

2,530,670
LABEL FEEDING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application June 20, 1945, Serial No. 600,545
6 Claims. (Cl. 271—31)

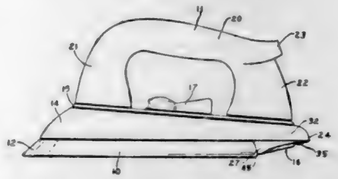


1. In a labeling machine including a movable support for a supply stack of labels, means for removing successive terminal labels from said stack whereby the latter is progressively depleted, and normally inactive actuating mechanism operatively associated with said movable support, that improvement which comprises a reciprocating member, a stationary solenoid operatively associated with said actuating mechanism, a switch carried by and movable with said reciprocating member in circuit with said solenoid, a locking member operatively associated with said solenoid to normally maintain said actuating mechanism inactive, and a control member carried by said reciprocating member and cooperating with said supply stack to operate said switch and solenoid when said stack reaches a predetermined degree of depletion to initiate operation of said actuating mechanism whereby said movable support is adjusted to restore said stack to normal position.

2,530,671
FLAT SPRAY NOZZLE
Fred W. Wahlin, Oak Park, Ill., assignor to Spraying Systems Co., Chicago, Ill., a corporation of Illinois
Application March 8, 1945, Serial No. 581,582
3 Claims. (Cl. 299—121)

1. A flat spray nozzle of the class described comprising a nozzle body having a jet orifice extending therethrough and a jet deflector projecting from the body at one side of the exit end of the orifice, said deflector having a transversely and longitudinally curved trough shaped deflector face extending outwardly along and across the orifice discharge path, said deflector face being transversely curved concavely crosswise of said path and longitudinally curved concavely lengthwise of said path whereby the discharge from the orifice is spread in a thin transversely curved progressively widening stream, said concavely curved face being centrally extended lengthwise at the outer end in convex end form whereby the stream is transformed into flat planar form as it leaves the outer end of the deflector face.

2,530,672
IRONING SURFACE FOR ELECTRIC IRONS
Edward August Weiland, Garfield Heights, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 7, 1946, Serial No. 695,490
3 Claims. (Cl. 38—79)



3. An iron comprising a sole plate having a pressing face for material to be ironed, means adjacent said sole plate and having a first and second surface for engaging the material to be ironed, said first surface extending upwardly from said sole plate to an apex, said second surface bounding a portion of said first surface and extending from said apex toward said sole plate, said surfaces having portions thereof at different elevations with respect to each other for engagement with different elevated portions of the material being ironed, said means acting as an iron rest when said iron is upended on said means.

2,530,673
PUMPING VISCOUS FLUIDS
Richard H. Zinszer, Los Alonas, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application January 24, 1945, Serial No. 574,257
10 Claims. (Cl. 103—1)

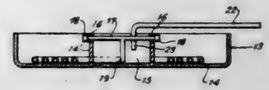
1. Apparatus for pumping liquids from wells comprising the combination of, an outer pipe extending from the surface down into the well, a rod-operated pump of the reciprocating displacement member type associated with the outer pipe and adapted to raise a column of well fluid through that pipe to the surface, a pump operating rod extending down within the outer pipe and connected to the displacement member of the pump to operate it by vertical reciprocation, an inner tube immediately surrounding the pump rod throughout a substantial portion of its ver-

tical length, a passage leading from the interior of the inner tube to the interior of the outer pipe and constantly open for passage of fluid from the former to the latter under a differential in the pressures in the tube and pipe, and means for maintaining a body of relatively non-viscous fluid in the inner tube around the pump rod at a pressure which at least substantially balances the pressure of the well fluid at the lower end of the inner tube.

2,530,674
SEVERAL COLOR LEAD HOLDER PENCIL
Charles Bergonzo, Moutier, Switzerland
Application September 17, 1946, Serial No. 697,395
In Switzerland September 24, 1945
9 Claims. (Cl. 120—14.3)

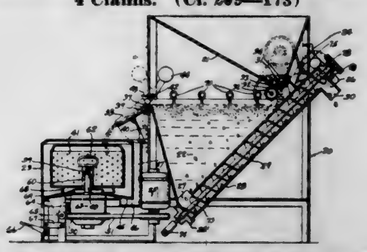
1. A multi-color lead holder pencil having a tubular body, a tube longitudinally slidable in said body and adapted to receive leads, gripper means for gripping said leads, said tube being provided with an eccentrically located longitudinal recess, a cylindrical holder rotatably mounted in said recess and provided with longitudinal grooves one for each lead, said holder being adapted to cooperate with said tube for guiding a lead into said gripper means, and means responsive to the longitudinal movement of said tube for actuating said gripper means and causing the transfer of a lead thereto.

2,530,675
PAN TYPE VAPOR BURNER
Stephen S. Bennett, Flint, Mich.
Application January 3, 1946, Serial No. 638,817
1 Claim. (Cl. 158—66)



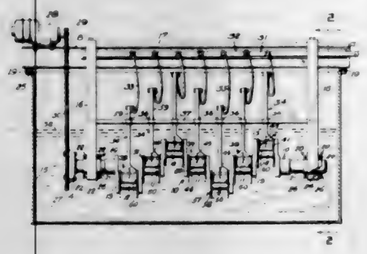
In a liquid fuel burning system a liquid fuel burner comprising a relatively shallow pan, an upwardly extending centrally located wall in said pan forming a centrally located air receiving chamber surrounded by an annular chamber, a convolute fuel vaporizing coil on the bottom of said annular chamber, fuel vapor discharge nozzles carried by the wall of the centrally located air receiving chamber, means coupling the inner end of the coil to the vapor discharge nozzles and means for introducing air under pressure to the air receiving chamber.

2,530,676
FLOTATION SEPARATOR AND EXTRACTOR
Louis B. Berg and John E. Martin, San Antonio, Tex., assignors, by mesne assignments, to Robert Wilson Carter, Luling, Tex.
Application March 12, 1947, Serial No. 734,130
4 Claims. (Cl. 209—173)



1. A flotation separating machine comprising a vat containing a body of liquid, a plurality of pipes arranged transversely of said vat above the surface of the liquid contained therein, said pipes being provided with perforations formed through the walls thereof at the bottoms of said pipes through which liquid passing through said pipes is discharged against the surface of the liquid in said vat in the form of a plurality of jets of liquid, means for delivering to said vat aggregate material to be separated into its portions of lighter and heavier specific gravity, a movably supported discharge member for discharging from said vat portions of separated material of lighter specific gravity which floats at the surface of the body of liquid in said vat, means for discharging from said vat portions of separated material of heavier specific gravity which sink to the bottom of said vat, said movably supported discharge member being adjustable to one position where liquid and separated material are discharged from said vat and to another position where only liquid is discharged from said vat, and means for obstructing discharge of separated material from said vat when said movably supported discharge member is in the last-mentioned position.

2,530,677
APPARATUS FOR PLATING CRANKSHAFTS
Edward L. Berkenkotter, Elmwood Park, and John Hans Herz, Chicago, Ill.
Application January 17, 1946, Serial No. 641,781
3 Claims. (Cl. 204—224)



1. An apparatus for electroplating the bearing surfaces of a crankshaft having off-set bearings, which comprises means for rotatably supporting such a crankshaft beneath the surface of a plating bath, means for rotating said shaft in said bath whereby said off-set bearings describe a planetary motion, a plurality of anode structures, one for each bearing to be plated, comprising at least one semi-circular anode, a depending wall-like insulating spacing element extending substantially the length of the bearing to be plated and adapted to bear against the upper surface of the bearing thereby to hold the anode in proximity to but spaced from said surface, and an electrically conducting rod rigidly connected at its lower end to said anode, a plate mounted above said bath having ports therein adapted slidably to receive the upper ends of said conducting rods, flexible electrical leads connected to the upper ends of said rods and means for passing an electric current through said leads, through said rods, through said anodes and through the plating bath to said bearings serving as cathodes while said bearings and said anode structures describe a planetary motion in said bath with the anodes being held above said bearing by said spacing elements and being prevented from rotating with said bearings by said rods sliding in said ports.

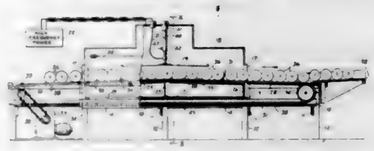
2,530,678
PLEATING FOR GARMENTS
Catherine Brennan, North Bay, Ontario, Canada
Application July 10, 1947, Serial No. 759,943
In Canada December 12, 1946
2 Claims. (Cl. 2—243)

1. A pleated textile article comprising a series of loops formed in the textile material, a web of unfolded material between the adjacent loops, said loops being arranged in a zig-zag manner, with each loop partly overlapping the next adjacent loop, a line of stitching extending through the material of each loop near the base thereof and into the material of the web, an additional line of stitching near the apex of each overlying loop passing through both layers of material in that loop and into the adjacent layers only of the material of the underlying loop.

2,530,679
RESONANT IMPEDANCE BRANCH
Melville D. Brill, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 23, 1948, Serial No. 67,059
1 Claim. (Cl. 178—44)

In combination, a rectangular wave guide with unequal cross-sectional dimensions and a series-resonant shunt impedance branch of preselected impedance level associated therewith, said impedance branch comprising a conductive rod extending perpendicularly from the inner side of one of the narrower walls of said guide, a tuning screw shorter than said rod extending through the other narrower wall of said guide toward the free end of said rod, and a transversely centered coupling screw extending through a third wall of said guide toward said rod, and said rod being positioned off center toward said coupling screw to permit said coupling screw to be withdrawn by a sufficient amount to reduce the undesired capacitance to a minimum while maintaining said impedance level substantially unchanged.

2,530,680
APPARATUS FOR TREATING TWISTED FILAMENTARY MATERIALS
Alden H. Burkholder, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application July 16, 1945, Serial No. 605,377
4 Claims. (Cl. 219—47)

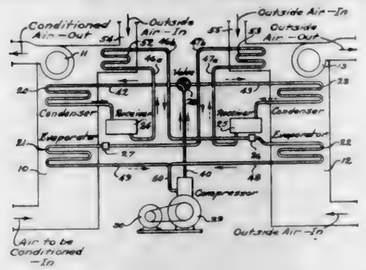


1. Apparatus for subjecting nonmetallic material to the action of a high frequency electrical field comprising, a pair of spaced electrodes connected to a source of high frequency power, a conveyor adapted to carry cylindrical packages containing nonmetallic material between said electrodes, means cooperating with said conveyor for gravitationally causing the rotation of said packages, said packages resting on their sides on said conveyor to permit their rotation during the travel of the conveyor between the electrodes, and means on said conveyor for limiting the rotation of said packages.

2,530,681
REVERSIBLE CYCLE SYSTEM
Gilbert E. Clancy, Los Angeles, Calif., assignor to Drayer-Hanson, Incorporated, Los Angeles, Calif., a corporation of California
Application November 18, 1947, Serial No. 786,608
17 Claims. (Cl. 62—129)

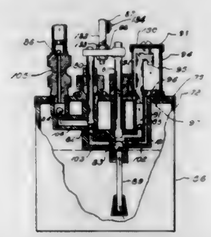
1. In a reversible refrigeration system, two independent refrigerant circuits, each having a relatively high pressure portion including a refrigerant condenser, a relatively low pressure portion including a refrigerant evaporator, and each having a fluid connection between the two said portions including means adapted to limit the rate

of refrigerant flow from the high pressure portion to the low pressure portion, and means including a refrigerant compressor for transferring refrigerant vapor from the low pressure portions



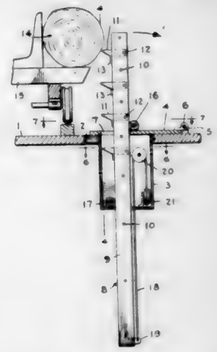
of both refrigerant circuits selectively to the high pressure portion of either of the circuits, those portions of the two circuits lying between the respective condensers and evaporators being mutually distinct.

2,530,682
WATER TREATMENT PUMP WITH MEASURING TRAP
Van B. Coldsnow, St. Clair Shores, Mich., assignor to Dihydrol Company, Detroit, Mich.
Application March 5, 1949, Serial No. 79,887
1 Claim. (Cl. 222—318)



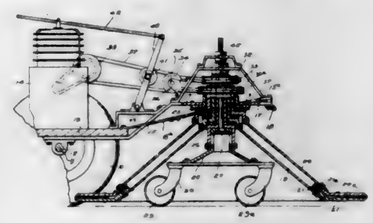
In a pump for pumping fluid from a supply to a water line, a vented reservoir above said supply, means communicating said supply and said reservoir, said communication means terminating in a retroverted downspout at the top of the reservoir and opening downwardly to empty to the lower part of said reservoir, the latter having a discharge opening in its bottom wall, means communicating said discharge opening with said water line, an overflow tube in the lower part of said reservoir having its lower end opening into said supply and its upper open end opening into said reservoir at a point somewhat above the bottom wall of the resrvoir, whereby a pool of fluid is maintained in the lower part of said reservoir to a level not above the upper open end of said overflow tube, with such upper open end also being well below the downspout which inlets into said reservoir from said supply to form an air gap between said downspout and said pool and the water line, and means for pumping fluid from said supply through the communication between it and the resrvoir and through the downspout to form said pool in said reservoir and for pumping a metered quantity from said pool to said water line through the communication between them.

2,530,683
LOG TURNER FOR PORTABLE SAWMILLS
Frank Danzer, Rochester, Wash.
Application March 21, 1947, Serial No. 736,309
3 Claims. (Cl. 143—97)



1. In an apparatus of the class described, the combination with a support, said support provided with an elongated opening, a hinged cover on said support and extending over said opening, a casing movably mounted in said opening and secured to said hinged cover, a nigger frame provided with a lower end and with teeth slidably mounted in said casing, and power means connected to the lower end of said nigger frame for sliding said nigger frame within said casing.

2,530,684
ROTARY SICKLE MOWER
George Walter Davis, Gibson City, Ill.
Application August 13, 1945, Serial No. 610,632
4 Claims. (Cl. 56—25.4)



1. A mower of the character described, comprising a carriage having ground contacting wheels at the rear of the carriage, rotors supported by the carriage and superposed and nested one within the other, each rotor having hollow frusto-conical walls, the angular inclination of the walls corresponding generally in direction with the downward centrifugal movement of grass cut by the mower so that clogging of the rotors is prevented, sickle blade cutters on the blade rings and following circular paths for cooperation with each other to effect sheer cutting action thereby, said blade rings being detachable power transmission means on the carriage for driving the rotors in reverse directions to each other, manually controlled means for regulating the power transmission, and a wheeled caster swivelled on the carriage for sustaining the cutters properly spaced from the ground.

2,530,685
FOG LIGHT ATTACHMENT FOR HEADLIGHTS
Claude E. Davis and Earl D. Stevenson, Fullerton, Calif.
Application March 8, 1947, Serial No. 733,308
4 Claims. (Cl. 240—46.59)

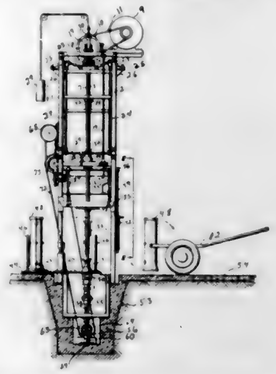
1. A fog light attachment for a headlight comprising a convexed light filtering sheet, the convexity of the medial portion of the sheet being of shorter radius than the convexity of the surrounding portion of the sheet whereby said latter portion will conform to the outer surface of a convexed headlight lens and said medial portion provides a pocket, a rubber-like suction cup disposed in said pocket and opening towards said headlight lens for engagement therewith, and means for securing the suction cup to said sheet.

2,530,686
CURRENT REGULATOR TUBE
Antonius De Graaff, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
No Drawing. Application January 14, 1946, Serial No. 641,180. In the Netherlands July 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 24, 1961
1 Claim. (Cl. 201—63)

A current regulator tube comprising a sealed envelope, an inert gas within said envelope, a current carrying body within said envelope, said body comprising iron and an atomic percentage of tungsten of .5% alloyed with said iron said body retaining substantially the current-voltage characteristic of pure iron.

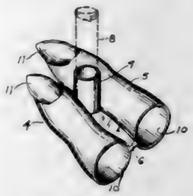
2,530,687
PACKER HEAD CONCRETE PIPE MACHINE
William Bryan Dixon, Houston, Tex.
Application July 29, 1946, Serial No. 686,901
1 Claim. (Cl. 25—36)

In a concrete pipe making machine, an upstanding framework, a rotatable shaft mounted longitudinally therein, the upper portion of said shaft being threaded, an abutment on said shaft adjacent the lower termination of said threads, releasable means engaging said threads to elevate said shaft, counterweights thereon to assist in said elevation, a motor in geared connection with said shaft, bell packing means for forming a bell on the lower end of said pipe, independent driving means for rotating said bell packer, a fulcrumed lever mounted on said framework and having a yoke adjacent one end thereof embracing and adapted to be contacted by the abutment on said shaft when said shaft is elevated to a point adjacent its extreme upward position, a train of lever connections secured to the other end of said fulcrumed lever in connection with the bell packer and adapted to move the



bell packer out of engagement with the pipe to be formed upon extreme upward movement of the shaft and to move said bell packer into engagement with the pipe to be formed upon downward movement of the said shaft.

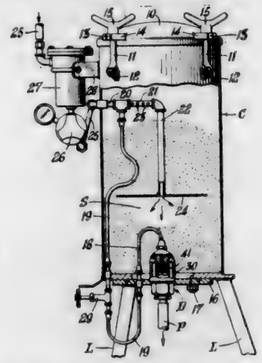
2,530,688
CIGARETTE HOLDER
George B. Ducot, Santa Ana, Calif.
Application August 30, 1949, Serial No. 113,050
4 Claims. (Cl. 131—258)



1. A cigaret holder comprising: casings having the external appearance of human fingers and having interior cavities adapted to receive the tips of human fingers; a web joining said casings; and a tube for holding a cigaret disposed between said casings and having its bore extending through said web.

2,530,689
POWDER DISPENSER
Eduard J. W. Egger, Pittsburgh, and David E. Lytle, Leetsdale, Pa., assignors to The Linde Air Products Company, a corporation of Ohio
Application July 30, 1946, Serial No. 687,114
7 Claims. (Cl. 302—53)

1. A powder dispenser comprising a container adapted to hold a supply of powder, conveying means connected to the bottom of said container for conveying said powder to the outside of said container, means for supplying gas to said conveying means, a gas conduit comprising a downwardly extending nozzle axially disposed in said container and having a discharge outlet at its lower end, said conduit having a plurality of apertures therein for discharging gas into said container above the powder level, and a downwardly diverging conical powder-supporting member having its apex portion secured to said nozzle



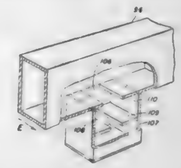
above said discharge outlet, the lower end of said member having a smaller diameter than the interior of said container.

2,530,690
TEETH SETTING MACHINE
Burr N. Engle and John B. Engle, Los Angeles, Calif.
Original application July 5, 1945, Serial No. 603,288, now Patent No. 2,441,403, dated May 11, 1948. Divided and this application March 23, 1948, Serial No. 16,516
3 Claims. (Cl. 76—58)

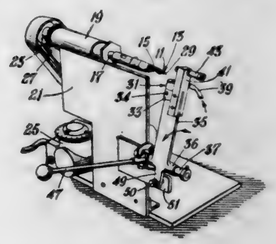
1. In a teeth setting device for saws, the device including a base with a top surface adapted to receive the blade of a saw, spaced apart saw guides on the base, an anvil intermediate the guides and alined relative thereto, a solenoid supported by the base and positioned over the anvil, a plunger in the solenoid, the plunger being alined with the anvil and adapted to strike it, a bar pivoted to the base, the bar having a contact brush at one end thereof which is adapted to make contact with bent teeth of the saw, means supplying electrical current to the solenoid with said bar in series therewith so that the solenoid is energized only when the brush of the bar makes contact with a tooth of the saw to be set.

2,530,691
WAVE FILTER
Arthur Gardner Fox, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application July 30, 1942, Serial No. 452,851. Divided and this application September 7, 1945, Serial No. 614,936
7 Claims. (Cl. 178—44)

1. In combination, a transmission line in the form of a hollow wave guide adapted for the through transmission of electromagnetic waves and a wave filter, said wave guide comprising an input section and an output section connected in tandem, said filter comprising a side branch closed at one end and at its other end opening into said wave guide at the junction of said input and output sections, an apertured transverse partition positioned at an intermediate point in said branch to form an end chamber tuned to resonate at approximately the mid-band frequency of said filter, and a reactive shunt impedance branch located in said side branch between said partition and said wave guide at a point of standing wave voltage minimum for said mid-band frequency, whereby waves of one frequency will be freely transmitted from said input section to said output section but waves of a different frequency will be effectively prevented from passing from said input section to said output section.



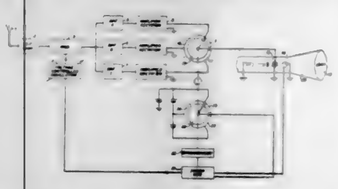
2,530,692
METHOD OF AND APPARATUS FOR FLAME FORMING CORUNDUM STYLES
Robert M. Gage, Buffalo, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application November 18, 1947, Serial No. 786,766
9 Claims. (Cl. 49—58)



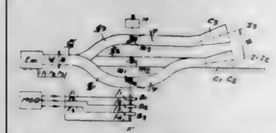
1. A method of flame-rounding the apex of a thin corundum style which comprises applying flame transversely to said style at said apex while rotating said style about its longitudinal axis; and maintaining in said flame opposite and close to said apex a body of metal which absorbs heat from said flame and acts as a stabilizer to compensate for variations in the heating effect of said flame.

3. Apparatus for flame-rounding a corundum style comprising, a rotatable chuck adapted to receive said style; means for rotating said chuck about its longitudinal axis; a burner so constructed and arranged as to direct flame across such axis just in front of said chuck when in heating position; and a heat-conductive body of metal so positioned as to extend into such flame opposite said chuck when said burner is in heating position, said body of metal acting as a stabilizer to compensate for variations in the heating effect of said flame.

2,530,693
PANORAMIC SIGNAL RECEIVING SYSTEM
Estill I. Green, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1944, Serial No. 540,763
7 Claims. (Cl. 250—20)



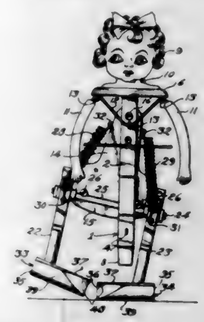
7. A system for scanning a predetermined wave frequency range comprising a multiplicity of frequency selective means for simultaneously cyclically scanning respective different portions of said frequency range whereby each of said selective means selects in cyclically repeated succession such wave effects of different frequencies as may appear within the said portion of the frequency range respective thereto, and means for visually indicating along a single reference axis the relative frequencies of the said wave effects, said last-mentioned means comprising an oscilloscope, a sweep circuit for said oscilloscope synchronized with the cyclical operation of said scanning means, and means connecting the several said scanning means to said oscilloscope in continually repeated succession.

2,530,694
DEVICE FOR GUIDING AND LANDING AIRCRAFT BY MEANS OF DECIMETRIC RADIO WAVES
Henri Gutton and Jean Jacques Hugon, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application July 18, 1946, Serial No. 684,604
In France October 26, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 26, 1964
9 Claims. (Cl. 343—108)

2. A system of radio landing for airplanes along a predetermined line comprising, on the one hand, at the landing point, three aerials presenting a directive field diagram in the form of a beam, each of the aerials emitting successive trains of signals at ultra high frequency modulated by a characteristic low frequency, said aerials being arranged in a plane substantially vertical and at the vertices of an isosceles triangle whose base is parallel to the ground, the two aerials forming the said base being identical and oriented so that the axes of their field diagram form an angle of a few degrees between themselves and are equally inclined upwardly with reference to the ground, by an angle substantially equal to half the angle of opening of said diagrams, the third aerial being oriented so that the axis of the diagram is inclined upwardly a few degrees with respect to the axes of the diagrams of the said bottom aerials, in their plane of symmetry, an ultra short wave generator feeding said aerials, means inserted between the said generator and said aerials for chopping the wave produced by said generator into successive trains of signals, modulating them by said characteristic low frequencies and transmitting them alternatively to said aerials; and on the other hand, on board the airplane, means for receiving and detecting said signals and means for comparing them according to the two relations $E_1=E_2$ and $E_3=E_1+E_2$ between the fields E_1E_2 emitted by the bottom aerials of the triangle and E_3 emitted by the third aerial.

2,530,695
SKI CARRIER AND WAIST BELT
Frits Ragnvald Helmer Helmert, Odense, Denmark
Application June 9, 1948, Serial No. 32,002
In Denmark July 26, 1947
2 Claims. (Cl. 224—5)

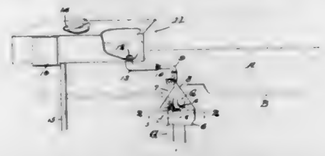
1. A ski-carrier and waist belt comprising a central strap adjacent each end of which is connected pivotally intermediate of its ends, a buckle strap having a buckle at one of its ends, and buckle holes spaced apart between the pivoted connection and the other of its ends, the buckle straps being adapted to be used as ski-carrier loops at right angles to the central strap, and as waist belt extensions in elongation of the central strap.

2,530,696
WALKING DOLL
Jesse E. Henderson, Fort Worth, Tex.
Application November 12, 1946, Serial No. 709,187
6 Claims. (Cl. 46—149)



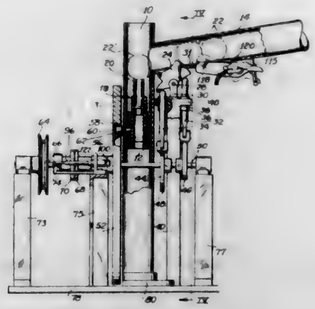
5. In a doll, an upright rocker tiltable in opposite directions past a vertical position into two extreme positions, a pair of legs attached to opposite sides of said rocker with feet thereon, flat heel faces on said feet inclined upwardly and outwardly crosswise of said feet relative to the axis of the legs and alternately engaged with a floor by tilting of said rocker in opposite directions to thereby support said rocker on one leg and foot with the other leg and foot raised off the floor in each extreme position of said rocker, and a body pivotally suspended on said rocker and laterally swingable thereon in vertical position to overbalance the rocker into its extreme positions when the rocker tilts past vertical position and thereby lower the raised legs and feet to alternately engage said heel faces with the floor.

2,530,697
INKING DEVICE FOR TYPEWRITERS
Robert H. Higgins, Southampton, N. Y.
Application June 27, 1947, Serial No. 757,595
2 Claims. (Cl. 197—150)



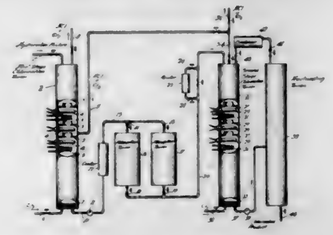
2. In a gravity feed inking appliance for the type bars of a typewriter, the combination with a reservoir and spaced type bar guides of a typewriter, of inking pad holders mounted in front of the type bar guides, absorbent inking pads secured within the holders with their adjacent free edges overlapped in the path of travel of a type bar moving between the guides, said type bar picking up ink from the pads, and means for supplying inking fluid from the reservoir to the pads.

2,530,698
GOLF BALL TEEING MACHINE
Bart A. Hogeberg, Seattle, Wash.
Application October 1, 1947, Serial No. 777,293
1 Claim. (Cl. 273—33)



In a golf ball teeing machine, an upright tube, a golf ball teeing member guided for movement in said tube between an upper ball-teeing position and a lower ball receiving position, a golf ball supply trough inclined downwardly toward said tube and communicating with it, and coacting gate means comprising a cradle member having a concave upper surface and projecting into said supply trough immediately adjacent to said tube, means supporting said cradle member to rock toward and away from said tube about an axis substantially normal to said supply trough, and means operable to rock said cradle member away from said tube to receive therein a ball from said supply trough, and to rock said cradle member toward said tube to carry such ball and dispense it into said tube and onto said teeing member in its lower, ball-receiving position, the end of said cradle member remote from said tube being convexly curved approximately circularly about said axis on a radius sufficiently great to hold back the next succeeding ball in said supply trough at a substantially constant distance from said tube throughout rocking of the cradle member toward said tube, the end of said cradle member proximate to said tube being projectible inwardly into said trough at a location to engage a lodged ball projecting partially into said tube, and the length of said cradle member's concave surface at its end proximate to said tube being sufficient to recover and shift such ball in said trough away from said tube, on the backward rocking movement of said cradle member, to a position adjacent to said next succeeding held-back ball in the event that entry of the ball into the tube is prevented by an obstruction therein.

2,530,699
PHOTOCHEMICAL CHLORINATION OF HYDROCARBONS
Earl L. Humphrey and Edward Mitchell, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application September 24, 1948, Serial No. 51,034
9 Claims. (Cl. 204—163)

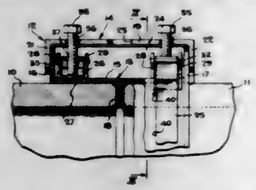


1. The process of chlorinating a hydrocarbon to a high chlorine content which comprises reacting the hydrocarbon in liquid phase with chlorine under irradiation by actinic light rays to accomplish substantial chlorination, removing the resulting chlorinated hydrocarbon from contact with free chlorine, then flowing the resulting chlorinated hydrocarbon through an amount of an adsorbent in active condition thereby removing from said resulting chlorinated hydrocarbon more easily adsorbed bodies formed in said chlorination, and then reacting the treated product free from said more easily adsorbed bodies with chlorine under irradiation by actinic light rays to accomplish additional chlorination.

2,530,700
PRESSURE PIPE JOINT
Howard W. Jewell, William G. Calder, and Raymond B. Stringfield, Los Angeles, Calif., assignors to Joints, Inc., Los Angeles, Calif., a corporation of California
Application November 3, 1947, Serial No. 783,800
10 Claims. (Cl. 285—193)

1. A coupling for connecting the adjacent ends of pipes including: inner and outer oppositely disposed annular-shaped channel members arranged in telescoping relation and forming an

annular chamber, and means located within said chamber having means extending exteriorly of



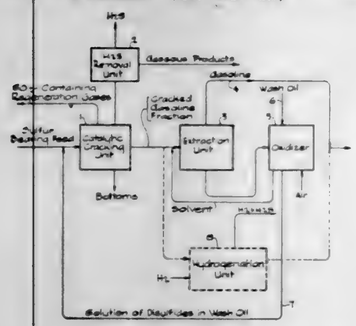
said chamber for clamping the coupling on the adjacent ends of pipes.

2,530,701

PRODUCTION OF DESULFURIZED GASOLINE

Arnold L. Johnson, Compton, Elmer G. Carlson, Long Beach, and Frank E. Biasca, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application June 15, 1948, Serial No. 33,098
5 Claims. (Cl. 196—32)



1. A process for the production of partially desulfurized gasoline which comprises cracking a petroleum oil containing at least 0.5% sulfur in a cracking zone with the aid of a clay-type cracking catalyst thereby to produce a gaseous product containing hydrogen sulfide and a mercaptan-containing hydrocarbon fraction boiling in the gasoline boiling range, extracting mercaptans from said fraction with an immiscible alkaline solvent, oxidizing the mercaptans so extracted to disulfides, and passing said disulfides to said cracking zone whereby the disulfides are cracked simultaneously with said first-mentioned sulfur-bearing petroleum oil with the formation of further quantities of hydrogen sulfide.

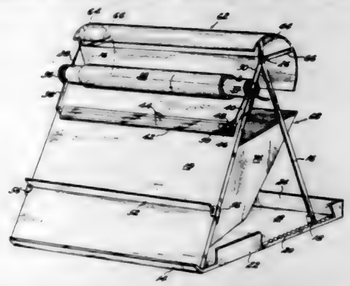
2,530,702

COPYHOLDER

Howard L. Johnson, Los Angeles, Calif.

Application August 20, 1947, Serial No. 769,604
19 Claims. (Cl. 120—32)

11. A copy holder including: a surface adapted to retain thereon a stack of unconnected copy sheets; a roller swingingly mounted adjacent said surface so as to rest upon the uppermost of said sheets and upon rotation to slidingly withdraw beyond an end of the surface, successive sheets by frictional engagement therewith so as to progressively expose the next lower sheet; an electric motor operatively connected to said roller; a curved shield spaced above said end of the surface and extending downward in the rear so as to invert said moving sheet by contact of the latter with the under surface of said shield, whereby successive unconnected sheets upon withdrawal



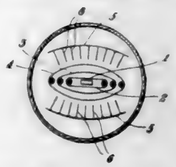
from said surface are piled up behind the surface in the same order in which they were stacked on the surface.

2,530,703

ELECTRIC DISCHARGE TUBE WITH SECONDARY EMISSION PREVENTION MEANS

Johan Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 16, 1946, Serial No. 684,031
In the Netherlands February 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 11, 1963
4 Claims. (Cl. 250—176)



1. An electric discharge tube comprising an evacuated envelope and within said envelope a cathode, a control grid surrounding said cathode, a screen grid surrounding said control grid, a suppressor grid surrounding said screen grid, and an anode surrounding said suppressor grid, said anode comprising partition portions extending toward said suppressor grid.

2,530,704

APPARATUS FOR HANDLING LOADS

John H. Kemp, Jr., San Carlos, Calif.

Original application December 10, 1946, Serial No. 715,175. Divided and this application September 7, 1948, Serial No. 47,991
3 Claims. (Cl. 214—113)

1. In load-handling apparatus, the combination with a deck having parallel grooves, of a lifting fork having load-carrying tines dimensioned and spaced for reception in said grooves, whereby the load may be deposited on or lifted from the deck when said tines are located in said grooves, a vehicular mount for the fork,

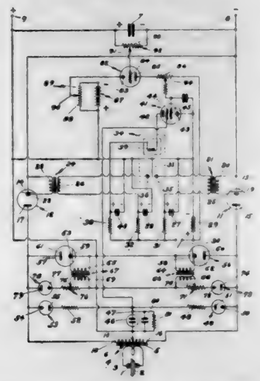
operating mechanism for effecting vertical movement of the fork, and indicator means on the fork and deck independent of said tines and grooves for aligning the load-carrying tines with their respective grooves, said means including a tine on the fork located alongside the load-carrying tines and projecting beyond the ends thereof.

2,530,705

ELECTRICAL CONTROL SYSTEMS

Hans Klemperer, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Original application April 22, 1942, Serial No. 440,019. Divided and this application April 15, 1943, Serial No. 483,148
9 Claims. (Cl. 320—1)



1. In combination, a load, a condenser adapted to be discharged into said load, and means responsive to the charge on said condenser for holding-off the discharge thereof, said hold-off means being adapted to operate whenever the charge on said condenser is below a predetermined level, said means also being responsive to the flow of current in said load to hold off said discharge until the current flowing in said load due to a previous discharge of said condenser has decayed substantially to zero.

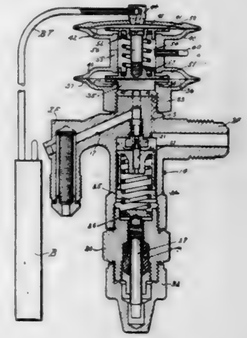
2,530,706

LOAD LIMITING MEANS FOR USE WITH REFRIGERATION AND OTHER VALVES

Harold T. Lange, Webster Groves, Mo., assignor to Sporlan Valve Company, St. Louis, Mo., a corporation of Missouri

Application August 30, 1946, Serial No. 693,973
4 Claims. (Cl. 236—92)

1. In a thermostatic expansion valve assembly in and for the control of a compressor-condenser-evaporator system, and including a fluid motor having a diaphragm movably responsive to thermal requirements of the system, the combination therewith of a casing constituting an attachment adapted to be carried by the valve assembly and providing therefor inner and outer enlarged chambers and an intermediate chamber having a cylindrical wall, a flexible diaphragm secured in said inner enlarged chamber, the fluid motor being connected to the outer enlarged chamber with the diaphragm therein operative in said outer chamber, the diaphragms being of substantially equal areas, an element carried in the valve assembly to extend between said flexible diaphragm and the expansion valve for translating motion of the latter diaphragm to the expansion valve, a spring located in the intermediate chamber and acting to separate the said flexible diaphragm, and the diaphragm of the fluid motor, a buffer plate operatively associated with each diaphragm and having a sliding contact at the cylindrical wall of the intermediate chamber, said



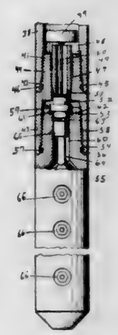
buffer plates providing seats for the opposite ends of said diaphragm separating spring, and means between said buffer plates limiting the extent of their possible separation and hence possible separation of said diaphragms, said means being adapted to permit a range of relative movement of said buffer plates, within such limit of possible separation.

2,530,707

PERFORATING GUN ASSEMBLY

Ralph A. Lillich, Houston, Tex.

Application May 31, 1946, Serial No. 673,538
3 Claims. (Cl. 164—0.5)



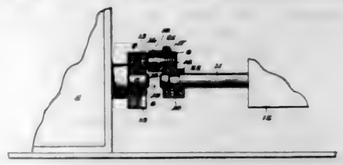
1. In a perforating gun assembly, a series of connecting sections, a projectile discharging unit on one end of said assembly, said projectile discharging unit having an axial bore therein, said bore being circumferentially enlarged at one end forming a ledge, an O-ring of resilient packing material seated on said ledge, a plug carrying a plurality of electrical impulse conducting means mounted in said bore, an annular flange on said plug, said flange adapted to contact and slightly compress said O-ring when the gun is in assembled relation.

2,530,708
BUILDING UNIT
Sadie G. Loewenthal and William Loewenthal, Miami Beach, Fla.
Application June 14, 1948, Serial No. 32,784
9 Claims. (Cl. 189—69)

1. A ventilated closure of the class described, comprising a rectangular frame having side stiles, a series of right and left hand pairs of slat-holders journalled on pivot pins in vertical alignment at spaced distances from one another in said side stiles, each of said slat holders comprising a sheet metal pattern bent to form a body portion having a right-angle, slat-supporting flange, a right-angle, spring-retaining flange opposing said supporting flange, a pair of right-angle end flanges, the space between said slat-supporting flange and said spring-retaining flange being about twice the width of said end flanges, a lug depending from one end of said body portion below the supporting flange, a pivot pin fastened near the center of said body portion, and a pivot pin fastened to said lug, both pins extending outwardly from said body portion on the side opposite to said flanges; a plurality of planar glass slats, each slat fastened in one of said slat-holder pairs by curved leaf springs tensioned between the adjacent surface of the slat and the bottom of said spring-retaining flange; a slat operating member comprising side members spaced to fit snugly within said frame for movement in parallelism with the frame, a gasket closing the space between said side members and said frame, said side members being connected to each of said slat holders on their respective side of the frame by said lug-fastened pins, said slats extending horizontally across the closure with lower edges overlapping the upper edges of subjacent slats, a header ledge in said frame against which the outside, upper edge of the top slat abuts when in raised position, and a sill ledge against which the inside lower edge of the bottom slat abuts when in raised position.

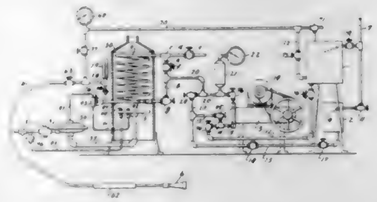
2,530,709
COMBINED ADJUSTABLE COUPLING AND SWITCH ACTUATOR
Wayne M. Mack, Easton, Pa., assignor to Dixie Cup Company, Easton, Pa., a corporation of Delaware
Application December 7, 1945, Serial No. 633,478
4 Claims. (Cl. 74—69)

1. The combination with drive and driven members, of means for coupling the same while allowing for disalignment of said members, comprising rotatable heads having relatively radial adjustable movement therebetween, a cam carried by the coupling located between the heads and rotated therewith, said cam being of angular contour to provide multi-faced cam surfaces, and means for rotatably adjusting the same, the head



to which the cam is attached having a seat conforming to the contour of the cam to prevent rotation thereof when adjusted.

2,530,710
BLOWDOWN METHOD FOR A COIL-TYPE CLEANING MACHINE
Job F. Malsbary, Oakland, Calif., assignor, by direct and mesne assignments, to Malsbary Manufacturing Company, Oakland, Calif., a corporation of California
Application October 27, 1943, Serial No. 507,791
1 Claim. (Cl. 122—379)

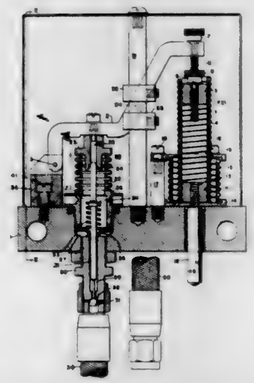


The method of blowing down a vertical coil having a heater underneath the same and having means for pumping a liquid therethrough from top to bottom, which comprises the steps of closing the coil against the pump and against discharge at the lower end, opening the upper end of the coil to the atmosphere, causing the heater to heat the coil for evaporating liquid present in the coil and for discharging the same into the atmosphere, continuing operation of the heater for heating the dry coil greatly in excess of normal coil temperatures for cracking solids adhering to the inside of the coil, and forcing liquid from the pump into the lower end of the coil for suddenly chilling the same for additional cracking effect and for exploding the liquid into steam adapted to entrain loosened solids and to race the same throughout the coil toward the atmosphere with a sandblasting effect for cleansing the coil.

2,530,711
MEASURING DEVICE
Alfred A. Markson, Mount Lebanon, Pa., assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1947, Serial No. 750,543
6 Claims. (Cl. 33—172)

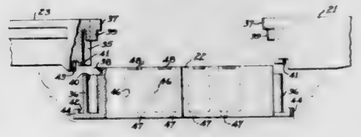
1. A device for measuring changes in length of a member with reference to another member, said device being stationary with reference to said members and comprising a beam having a substantially frictionless fulcrum, a movable element, a tension spring having one end connected to said beam and the other end connected to said movable element and exerting a force on said beam tending to turn it in one direction about

said fulcrum, said movable element having a feeler adapted to engage a member whose change in length is to be measured, a pressure actuated element operatively connected to said beam and disposed to exert a turning force on said beam which opposes said spring force, a valve actuated jointly by said beam and said pressure actuated



element and disposed to establish a pressure in said pressure actuated element of such value that the turning force exerted thereby on said beam balances the turning force exerted by said tension spring thereon, and means for measuring the pressure in said pressure actuated element as a function of said changes in length being measured.

2,530,712
PIANO KEY
Lloyd M. Martin, San Francisco, Calif.
Application January 9, 1948, Serial No. 1,450
8 Claims. (Cl. 84—433)



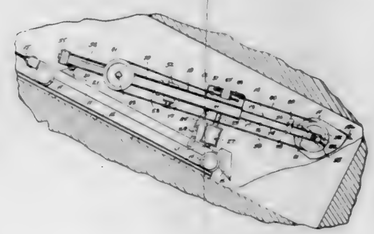
1. A piano key and key lever comprising a key section, a center section and a tail section, and a detachable pivotal connection between said center and key sections and a detachable pivotal connection between said center and tail sections.

2,530,713
HAND-TWIRLED FLY-TYING VISE
Donald S. Martinez, Los Angeles, Calif.
Application December 3, 1947, Serial No. 789,431
4 Claims. (Cl. 81—18)

1. A rotary hand-vise for fly tying, comprising a hand-grip, a complemental section hingedly mounted on the outer end of said hand-grip, said section being provided with a chuck including an adjusting collar and jaws, the jaws being connected with a body portion and said body portion being slidable in said section, a thrust pin slidably carried by said section and having one end engaging said body portion, and cam means embodied in the hinge connection to engage the other end of the thrust pin, whereby the thrust pin exerts pressure on the jaw-carrying body portion when the handle and section are in axial alignment but releases end thrust pressure on said body portion when the section is angled in relation to the handle portion.

4. A rotary hand-vise for fly tying, comprising an outer section provided on its outer end with a chuck including hook gripping and releasing jaws, a hand-grip section hingedly connected at one end to first named section and having an axial socket at the other end, a stick axially and removably telescoping at one end into said socket, and an anti-slipping rubber head mounted on the other end of said stick so as to function as a prop, said head being designed to rest on the arm of a chair or the like when the vise is being used.

2,530,714
MUCKING MACHINE FOR INCLINED MINE SHAFTS
Stanley W. McDougall, Kellogg, Idaho
Application March 21, 1949, Serial No. 82,614
7 Claims. (Cl. 214—103)

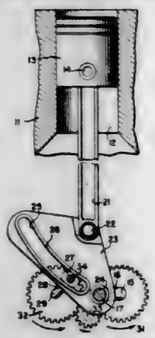


1. A mucking machine comprising a carriage, a frame pivotally supported on said carriage, said frame comprising a supporting part and an extensible part slidably mounted on the supporting part and projecting therefrom, a bucket rotatably mounted on the projecting end of the extensible part, means to extend and retract the extensible part, and mechanism operable by outward movement of the extensible part to turn the bucket on its axis in a direction to cause the open end of the bucket to face away from the carriage, said mechanism being operable to turn the open end of the bucket downward and rearwardly toward the carriage as the extensible part is retracted.

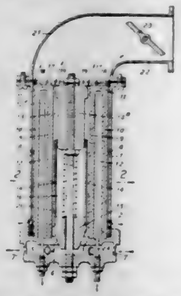
2,530,715
MECHANICAL MOVEMENT
Charles J. Mensman, Washington, D. C.
Application September 29, 1947, Serial No. 776,657
7 Claims. (Cl. 74—44)

1. Mechanism for transmitting power between a reciprocating element and a rotary crank element comprising a connecting rod having one end adapted for connection to the reciprocating element, a link pivoted to the other end of said connecting rod and adapted for connection to said rotary element, said link having a guideway, and means driven synchronously with said

crank element and cooperating with said guideway to manipulate said link in a manner varying the effective length of said connecting rod during rotation of said crank.

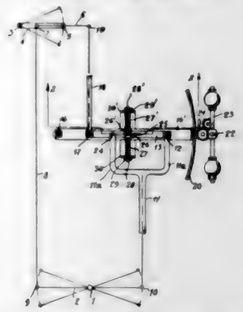


2,530,716
CARBURETOR
Jacques Marie Jean Frédéric Meynier, Lausanne, Switzerland; Rosine Jeanne Grange Meynier sole heir of said Jacques Marie Jean Frédéric Meynier, deceased
Application April 6, 1946, Serial No. 660,056
In France August 7, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires August 7, 1959
1 Claim. (Cl. 261—99)



A carburetter for liquid fuel in internal combustion engines comprising an outer perforated cylindrical casing, an element of porous material mounted inside the casing with a narrow annular gap between it and said casing, said element being constituted by two substantially coaxial cylinders defining between one another an annular chamber for a liquid fuel, means for admitting said liquid into the lower end of said chamber, means for venting the air from the upper end of said chamber, a support for the porous element secured to the casing provided with an inner chamber communicating with the atmosphere and with the chamber defined by the inner cylinder, a valve adapted to close the communication between the chamber in the support and last mentioned chamber, a spring urging said valve into its operative closing position, against the suction of the engine and means whereby the engine is adapted to suck air through the perforations of the casing and through the support and to cause the same to sweep over the wall of the outer cylinder and over the inner wall of the inner cylinder and to be laden thereby with vaporized fuel.

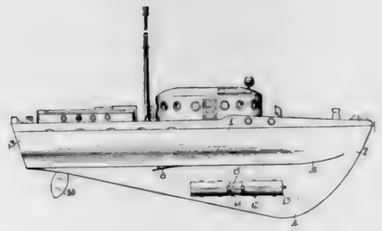
2,530,717
DEVICE FOR DIRECTLY DETECTING, MEASURING, AND UTILIZING FOR THE PURPOSE OF CONTROL, VARIATIONS IN SPEED
Louis Eugène Widolt Montrose-Oster, Brussels-Boitsfort, Belgium, assignor to Pollopas Patents Limited, London, England, a British company
Application July 15, 1948, Serial No. 38,865
In France May 25, 1945
3 Claims. (Cl. 264—1)



1. Device for directly measuring and utilizing for control purposes, variations in oscillatory angular velocities, comprising, in combination, a first member pivoted for oscillation in accordance with an oscillatory movement the acceleration or deceleration of which is to be measured, a second member pivoted to a first movable support, means forming a first mechanical drive connecting from said first member at a first point thereof at one side of its pivot to said second pivoted member at a first point thereof at one side of its pivot for causing movement of said point of said second member at all times in accordance with and directly proportional to the movement of said point of said first member, means forming a second mechanical drive from said first member at a second point at the opposite side of its pivot from its said first point to said second member at a second point at the opposite side of its pivot from its said first point, said last-mentioned means including a third member pivoted to a second movable support, resiliently yieldable buffer means carried by said second support, a rotary inertia device, means to drive said inertia device responsive to movement of said second support, means connecting said second point of said second member to a first point of said third member at one side of its pivot, means connecting said second point of said first member to a second point of said third member at the opposite side of its pivot from its said first point, and means connected to said second point of said first member and engaging said buffer means for moving said second support in response to movement of said first member in such a manner as to cause the pivot and said second point of said third member to be moved simultaneously and with the same displacement so that said third member is moved bodily parallel to its former position and transmits to said second member a displacement so related to that transmitted thereto directly and independently by said first mechanical drive means that the pivot of said second member and its said first support remain in a neutral position when and as long as said first member moves at a constant velocity, whereas movement of said second point of said third member and of said buffer-engaging means in response to an acceleration or deceleration of said first member causes said inertia device to become effective to delay

follow-up movement of said second support responsive to the movement of said buffer-engaging means and causes said buffer means to yield and permit an overrun between said buffer-engaging means and said second support resulting in a difference in the displacement of the pivot and said second point of said third member so that said third member is turned about its pivot and transmits to said second member a displacement so related to that transmitted thereto directly and independently by said first mechanical drive means that the pivot of said second member and its said first support are displaced from said neutral position proportionally to the acceleration or deceleration of said first member whereby to indicate by their position at any instant the value of said acceleration or deceleration.

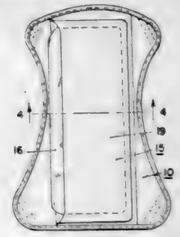
2,530,718
HULL FORM FOR SPEEDBOATS
John Napoli, Monterey, Calif.
Application November 13, 1945, Serial No. 628,023
1 Claim. (Cl. 114—56)



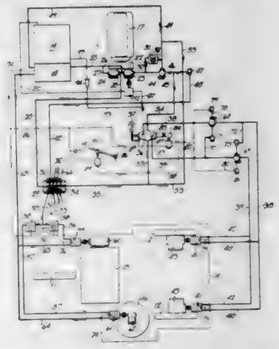
In a speed boat, a hull having a pointed bow and outwardly disposed side members extending longitudinally at its opposite sides, the side members having upwardly curved longitudinally disposed cylindrical concave surfaces at their under sides for intercepting a part of the spray made by the bow when the boat proceeds forwardly through the water, the said hull having a substantially V-shaped bottom portion located between the side members with the forward end of the V-shaped portion extending substantially beneath its rear end, a stern portion on the hull having a concave bottom surface joining the concave surfaces of the side members, and a keel arranged centrally on the V-shaped portion of the hull, the said keel being curved at its lower edge with its lowest point being located near the bow end of the boat and its highest point being located between the duplex concave bottom surfaces, the forward end portion of the keel extending substantially below the level of the side members and also substantially below the rear end portion of the said keel.

2,530,719
BABY GARMENT
Mary Lucile Neal, Baton Rouge, La.
Original application July 15, 1946, Serial No. 683,644. Divided and this application July 30, 1948, Serial No. 41,569
3 Claims. (Cl. 128—284)

1. A diaper-type garment comprising a substantially rectangular diaper whose top and bottom edges define the garment waist-line, and means forming a longitudinally extending pocket having an open mouth coextensive with one side edge and being closed along the other side edge thereof, said pocket extending between the top and bottom edges of the diaper and being secured at its ends to the diaper only along said edges.

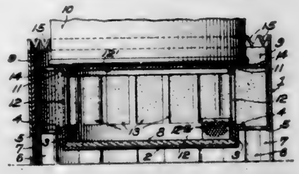


2,530,720
HYDRAULIC VEHICLE DRIVE WITH INDIVIDUAL MOTORS FOR MULTIPLE DRIVEN PARTS
Howard E. Paulson, South Bend, Ind., assignor to Municipal Supply Company, South Bend, Ind., a corporation of Indiana
Application March 4, 1944, Serial No. 525,126
8 Claims. (Cl. 15—82)



1. A street sweeper having a driving wheel and a rotatable broom, fluid motors for driving said wheel and broom, respectively, a pair of pumps, a plurality of conduits connecting said pumps and said motors in hydraulic circuits, a pilot valve in circuit with one pump for controlling the direction of rotation of said wheel motors, and a valve in circuit with the other pump for selectively directing liquid flow to said broom motor or said pilot valve.

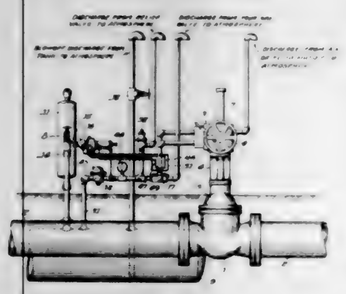
2,530,721
HEATER OR STOVE
Samuel Donald Perlman, Washington, D. C.
Application October 23, 1948, Serial No. 56,215
2 Claims. (Cl. 126—43)



1. A heater comprising a body having an open top, a hearth supported within the body, a mar-

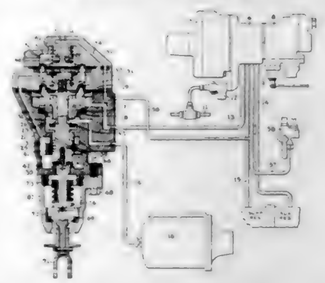
ginal baffle within and spaced from the upright walls of the body and rising from the hearth and terminating short of the top of the body, the baffle having ports disposed for the inward admission of air and for the outward escape of products of combustion, the body of the heater having air induction ports disposed for communicating with the ports of the baffle, the top of the baffle having annular spacing means engaging the inner walls of the body, and having ports for the passage of products of combustion, the top portion of the body having air induction ports located adjacent and above the top of the baffle.

2,530,722
AUTOMATIC VALVE ACTUATING CONTROL SYSTEM
Eugene C. Petrie, Elmhurst, and James Trefil, Berwyn, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 2, 1946, Serial No. 666,628
14 Claims. (Cl. 137—153)



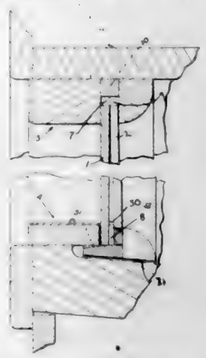
1. An automatic valve closing control system comprising a main valve on a main line, fluid operated means for actuating said main valve, a pressure actuated control valve, a pressure reducing regulator cooperating with said control valve, a reservoir connected to said automatic control valve, pressure responsive means for maintaining fluid pressure within said reservoir regardless of the reduction in pressure in the main line, a diaphragm operated four-way valve having a plurality of fluid connections with the said automatic control valve whereby when the automatic control valve is in the open position with pressure in two of the plurality of fluid connections as supplied to the top of the diaphragm of the said four-way valve at least a portion of the fluid pressure shuts off two of the other fluid connections of the said four-way valve, allowing pressure to enter through one connection to the fluid operated means and the other port allowing for discharge from the fluid operated means to atmosphere, resilient means provided by the said automatic control valve for selectively actuating the diaphragm of the four-way valve whereby the flow from the first two of the fluid connections to the other two fluid connections is changed to close off the opposite fluid connections in the said four-way valve to allow a reversal of flow to the said fluid operated means and exhaust therefrom, whereby upon completion of the latter cycle the said main valve is closed by the said fluid operated means, the said pressure reducing regulator reducing the main line pressure to the required pressure necessary to operate the said latter fluid operated means.

2,530,723
AIR BRAKE
Lynn I. Pickert, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application March 15, 1948, Serial No. 14,950
6 Claims. (Cl. 303—68)



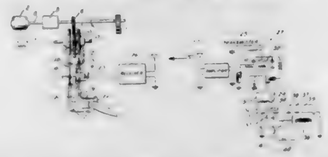
1. In an automatic air brake system, the combination of a brake pipe; an auxiliary reservoir; an automatic control valve connected with said brake pipe and auxiliary reservoir and having a brake cylinder connection and an exhaust connection; a brake cylinder connected with the brake cylinder connection; a retainer valve operable independently of any pressure in the system to control flow from said exhaust connection; a normally open secondary valve controlling an auxiliary vent from said exhaust connection; and a pressure motor subject to pressure in the brake cylinder and serving when subjected to pressure to close said secondary valve.

2,530,724
SASHLESS WINDOW
Ernest Pierson, Eureka, Calif.
Application February 12, 1946, Serial No. 647,171
5 Claims. (Cl. 20—52)



2. A sashless window comprising a rectangular, centrally open, vertically disposed frame including horizontal top and bottom parallel frame members formed with opposedly opening grooves therein, a pair of rectangular, vertically disposed window panes having one of their edges supported in the groove in said lower member and having their opposite edges in the groove in said upper member, one pane of said pair being adapted to move in said grooves longitudinally of the latter from a closed position closing said opening in which one of the vertical marginal portions thereof is in overlapping relation to one of the vertical marginal portions of the other pane at a point intermediate the ends of said frame to an open position in which said panes are in opposed side by side relation and a substantial portion of said opening is uncovered, the groove in said upper member being relatively narrow for holding the upper edges of said panes substantially together when said one pane is moved to said open position, and the groove in said lower member being relatively wide to permit spacing of said panes at their lower edges during said movement of said one pane to and from said open position, means in the groove in said lower member for so spacing said lower edges of said panes during said movement, the said means comprising a strip extending along the lower edge of the other pane of said pair and terminating adjacent said overlapping marginal portions whereby said marginal portions may be moved into engaging relationship when said panes are in closed position.

2,530,725
RADIANT ENERGY CONTROL SYSTEM FOR AIRCRAFT
Robert S. Pixer, Washington, D. C.
Application December 9, 1947, Serial No. 790,580
6 Claims. (Cl. 244—77)

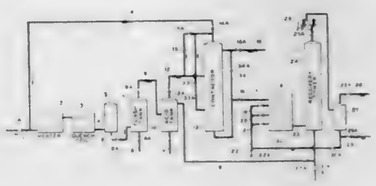


1. In a remote control system for aircraft, an aircraft having control surfaces, and cable means for moving each control surface, said cable means engaging a pair of pulleys, said pulleys being supported on a shaft for rotational and axial movement thereon, a driven disc supported on the shaft between said pulleys and in proximity therewith, clutch fork means engaging said pulleys to control the axial position thereof; and an electromagnet in proximity to said clutch fork on one side thereof to cause axial movement of one of said pulleys into engagement with the driven disc when energized, and spring means on an opposite side of said clutch fork to cause the other of said pulleys to move axially into engagement with the driven disc when the electromagnet is deenergized, whereby said control surface is moved in a first direction when the electromagnet is energized, and in a second direction when the electromagnet is deenergized.

2,530,726
CABLE STRANDING MACHINE
Osvald E. Rasmussen, Greenburg, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 16, 1948, Serial No. 65,673
43 Claims. (Cl. 57—6)

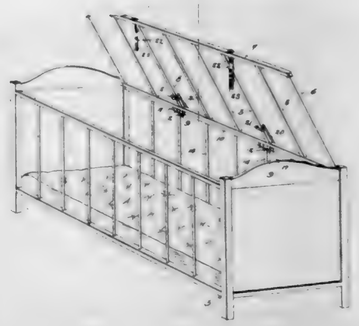
1. A method of stranding a cable having a plurality of strands arranged in a plurality of layers including the steps of feeding all of said strands simultaneously and in a given order from a strand supply through a series of multilayer distributions of increasing pluralities of layers into the desired plurality of layers.

2,530,727
PRODUCTION OF CYCLOPENTENE
Gardner C. Ray, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 2, 1948, Serial No. 73
4 Claims. (Cl. 260—666)



1. A process for the separation and recovery of cyclopentene from a mixture of cyclopentene and cyclopentane comprising the steps of contacting said mixture of cyclopentene and cyclopentane with sulfuric acid of 60 to 75% concentration, separating an acid phase from a hydrocarbon phase, diluting the acid phase with sufficient water to lower the concentration of sulfuric acid therein to 30 to 40 per cent and distilling the diluted acid to recover cyclopentene.

2,530,728
SAFETY TOP FOR BABY BEDS
John E. Ream, Portsmouth, Ohio
Application March 9, 1949, Serial No. 80,536
3 Claims. (Cl. 5—97)



1. The combination with a baby bed and safety top for the bed including parallel side bars and transverse members, of a removable hinge embodying a clamp clamped around a side bar of the bed, said hinge including a hinge member secured to the safety top, pivotally connected with the clamp, an arm rising from the clamp, and yieldable clamping members extending laterally from the arm and clamping a transverse bar of the safety top, supporting the top in an elevated position.

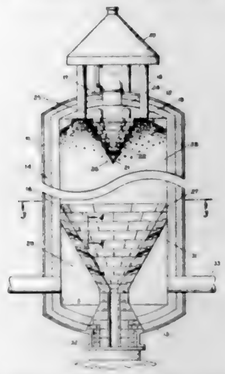
2,530,729
ANIMATED DISPLAY DEVICE
Archie E. Reitz, Los Angeles, Calif.
Application May 18, 1949, Serial No. 93,907
2 Claims. (Cl. 40—104)

1. An animated display device of the character described, comprising in combination: a plate spacing element; a pair of generally parallel plates held together by said element with their adjacent faces spaced apart thereby forming a chamber between the plates; a rotary member disposed between said plates; operative means carried by the outside of one of the plates for rotating said member; a link pivotally secured at one end adjacent an edge of said rotary member so as to be reciprocated by continuous rotation of the rotary member; an attachment member secured to the opposite end of said link and projecting thru an elongated slot in one of said plates; and a pack of cards slidingly supported upon the outer face of said last plate, the edges of successive cards being spaced back from the edge of the card below along an approximately transverse center line of said last plate and being in such position held together by a strip of flexible material, the lowermost card of the pack being connected to said attachment member adjacent the hinging points of the cards and the top card of the pack being turned back and anchored to its supporting plate and against lateral movement, whereby continuous movement of the rotary member causes said link and attachment member to reciprocate the pack of cards along said supporting plate so as to successively turn them over one at a time in alternate directions of movement.

2,530,730
DISPENSING CONTAINER
Thomas H. Richter, Los Angeles, Calif.
Application January 29, 1948, Serial No. 5,030
10 Claims. (Cl. 222—427)

1. A dispensing container, comprising: complementary members forming a container for dry pourable material and a cover therefor; a partial partition positioned in one of said members and defining therewith a dispensing compartment; ribs between said partition and member dividing said compartment into dispensing sections, said member having a discharge slot embracing said ribs and communicating with all of said dispensing sections; and a gate member movable across said discharge slot and having a dispensing aperture adapted to expose said dispensing sections in sequence as said gate member is moved.

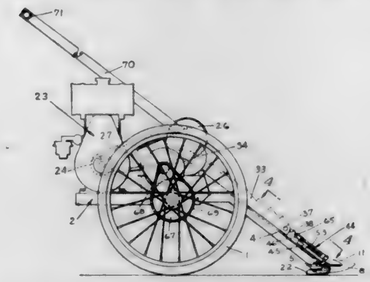
2,530,731
PEBBLE HEATING CHAMBER
Sam P. Robinson and Louis C. Bearer, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application April 5, 1948, Serial No. 19,114
9 Claims. (Cl. 263—19)



1. In a pebble heating apparatus utilizing a moving bed of heated pebbles, an improved heating chamber comprising a substantially vertically disposed closed outer shell, an effluent gas outlet conduit axially positioned in the top closure member of said chamber, a plurality of pebble inlet conduits concentrically positioned about said top closure member and extending therethrough a short but substantial distance, a perforate inverted conical member co-axial with said chamber and within said pebble inlet conduits, said conical member being movably attached to said top closure member and spaced therefrom at a sufficient distance to allow the passage of gas therebetween, adjustable closure means adapted to regulate the perforate area of said conical member, an inverted perforate conical gas distribution member transversely closing said chamber intermediate the ends thereof and dividing said chamber into a heating zone thereabove and a combustion zone therebelow, a pebble outlet conduit extending downwardly from the apex of said conical gas distribution member, at least one gas inlet conduit in communication with said combustion zone, the perforate portion of said perforate gas distribution member comprising a plurality of passageways slanting inwardly and downwardly in communication with said heating zone, and means for adjusting the perforate area of said gas distribution member.

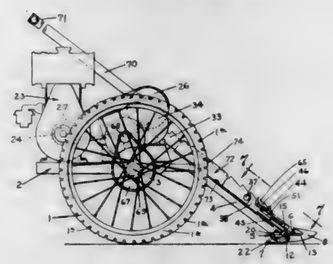
2,530,732
SICKLE BAR MOWER
Jacob A. Ronning, Minneapolis, Minn.
Application May 10, 1948, Serial No. 26,169
11 Claims. (Cl. 56—26.5)

1. For use with a reciprocatory type mower including a frame, and a pair of cooperating toothed cutting bars mounted and guided on the frame for relative linear reciprocation; an oscillatory member pivoted to the frame in close proximity to said bars and midway between the ends thereof, said oscillatory member having a generally arcuate face concentric with its axis, a flexible power transmission member extending circumferentially about the generally arcuate face of the oscillatory member and having one end portion thereof anchored fast to the oscillatory member, the other end portion of the flexible member extending tangentially from said arcuate face in close proximity to and parallel with one of the relatively reciprocatory cutting bars to which it is anchored, and power transmission mechanism on the frame for imparting



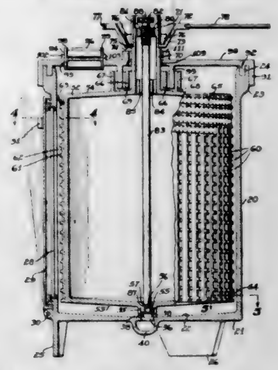
pivotal oscillatory motion to the oscillatory member, the last said mechanism comprising a power-driven crank remote from the oscillatory member and a pitman arm connected at one end to said crank and at its other end to the oscillatory member.

2,530,733
MOWING MACHINE
Jacob A. Ronning, Minneapolis, Minn.
Application May 24, 1948, Serial No. 28,790
12 Claims. (Cl. 56—26.5)



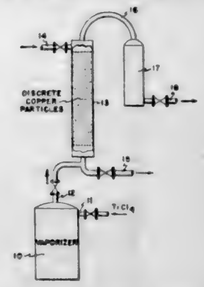
1. In a mowing machine of the class described, a wheel supported frame having a forwardly projecting portion, elongated cutting mechanism extending generally transversely of the direction of travel of the machine and mounted intermediate its ends on the said forwardly projecting portion of the frame, an elongated slide mounted for forward and rearward reciprocation on the forwardly projecting portion of the frame in closely rearwardly spaced relation to the cutting mechanism, a pitman arm pivoted to said slide on a generally horizontal axis and extending rearwardly therefrom, a power driven crank journalled on the frame on a generally horizontal axis and to the throw of which the rear end portion of the pitman arm is journalled, said crank imparting rotary motion in a generally vertical plane to the portion of the pitman journalled thereto, power transmission mechanism operatively connecting said slide to the cutting mechanism, the upper surface of said pitman arm being toothed and being exposed to cuttings and serving to part the latter.

2,530,734
FILM DEVELOPING TANK WITH ROTATABLE FILM CARRIER
Ralph I. Salxman, San Pedro, Calif.
Application November 4, 1947, Serial No. 784,058
3 Claims. (Cl. 95—90.5)



1. A film developing apparatus comprising: a cylindrical tank, a cylindrical drum of slightly smaller external diameter than the internal diameter of said tank rotatably disposed within said tank with its axis disposed vertically, a spiral film mounting track on said drum, a removable lid on said tank having means adapted to cooperate with means on said tank to exclude light therefrom, means defining a light-tight opening in said lid for filling the annular space between said drum and said tank with developing fluid, a post in the bottom of said tank bored to form a bearing and a drain, a boss centrally disposed on the bottom of said drum pivotally seating in said bearing, a bore in said boss communicating with the bore in said post and a central shaft in said drum removably seating in said bore in said boss and sealing the same.

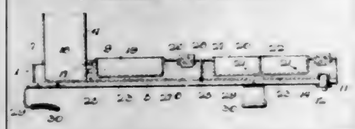
2,530,735
PURIFICATION OF TITANIUM HALIDES
Holger Heinrich Schaumann, Newark, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 12, 1946, Serial No. 661,914
3 Claims. (Cl. 202—67)



1. A method for purifying liquid $TiCl_4$ to effect substantially complete removal of vanadium present therein as an impurity, comprising heating said liquid to effect distillation thereof, passing the resulting vapors in the dry state through a distillation column and in direct contact with a mass of discrete copper particles maintained in

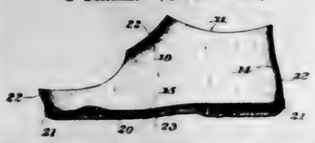
said column as a contact mass, and periodically reactivating said copper contact mass through direct treatment with a non-oxidizing solution of an acid.

2,530,736
CHILD'S FEEDING TRAY
Lloyd E. Sheldon, Saguache, Colo.
Application November 9, 1948, Serial No. 59,110
6 Claims. (Cl. 65—54)



1. A tray of the character described comprising a base, vertical side members, and an end member forming a closure at one end of the tray, the opposite end of the tray being open, whereby a receptacle for food may be slidably inserted between the side members, each of the side members having a longitudinal groove formed therein adapted to receive a complementary tongue attached to the receptacle, a food receptacle supported on the base of the tray between said side members, said receptacle having a tongue member at either side thereof seated in a corresponding groove of a side member, and means mounted upon the base releasably engageable with the receptacle to prevent withdrawal of the receptacle from the tray.

2,530,737
SHOE MOLDED TO SHAPE OF FOOT
Frank Sherwin and Anton A. Benson, Washington, D. C.
Application October 16, 1945, Serial No. 622,574
1 Claim. (Cl. 36—8.5)

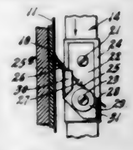


An orthopedic shoe comprising an integral one-piece leather lining molded to the shape of a human foot, a resilient pad formed of porous woven fabric impregnated with a resilient plastic positioned beneath said lining and secured thereto, a sole defining annulus formed from a relatively narrow strip of sheet material of uniform cross-section surrounding said pad and depending therebeneath, an outer leather casing for said lining surrounding the periphery of said annulus, and a sole member of wool fibers treated with synthetic rubbery liquid having high heat and wear resistance, the component parts being adhesively united.

2,530,738
METHOD OF COATING METAL SURFACES
Clayton I. Spessard, Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application February 4, 1947, Serial No. 726,435
1 Claim. (Cl. 117—64)

Process for forming a smooth coating on metallic articles having surface irregularities which comprises applying to the metal surface at room temperature a fluid suspension of 25 to 45 parts of a finely divided vinyl chloride resin containing from 80 to 100% polymerized vinyl chloride in a non-solvent mixture composed of 31 to 65 parts of a liquid hydrocarbon of the group consisting of xylene and toluene and 5 to 29 parts of a solvating liquid, at least 25% by weight of said solvating liquid being composed of an ester plasticizer for vinyl chloride resins and the balance of said solvating liquid being selected from the group consisting of acetone, dipropyl ketone, methyl isobutyl ketone, mesityl oxide, isophorone, acetonyl acetone, pentanedione-2,4, ethyl acetate, isopropyl acetate, butyl acetate, methyl amyl acetate, 2-ethylbutyl acetate, 2-ethylhexyl acetate, methoxyethyl acetate, ethoxyethyl acetate, diethylene glycol monoethyl ether acetate and diethylene glycol monobutyl ether acetate, forming a non-homogeneous easily abraded film on said metal surface by baking the applied suspension at a temperature not exceeding about 250° F. and thereby only partially fusing the finely-divided resin, mechanically abrading said film to obtain a smooth surface thereon, and thereafter baking said film at a temperature of 300° F. to 400° F. to form a smooth, tough and adherent coating on said metal surface.

2,530,739
STYLUS HOLDER
Hamilton Alan Stamper, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 12, 1948, Serial No. 14,591
6 Claims. (Cl. 346—139)

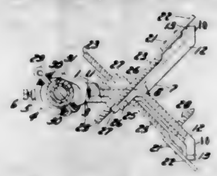


1. A stylus holder for supporting a spring wire stylus comprising: a plate member having a substantially flat surface for the stylus to lie against, said plate member being adapted to be supported for movement substantially in the plane of said flat surface past a recording surface perpendicular to said plane; a first shoulder member extending from said surface adjacent the edge thereof that is nearest said recording surface; a second shoulder member extending from said surface intermediate the edges thereof; and a third shoulder member extending from said surface adjacent an edge thereof more remote from said recording surface; said second shoulder facing in a direction opposite said first and third shoulders for normally holding a straight stylus in contact with said first and third shoulders; said shoulders being so positioned that the portion of a stylus extending beyond said first shoulder extends diagonally rearward with respect to the direction of movement and bears against and is deflected away from said first shoulder by said recording surface; and means for retaining said stylus adjacent said flat surface.

2,530,740
ANTENNA MOUNTING
Elzie R. Taylor, Gomer, Ohio
Application September 13, 1948, Serial No. 49,101
1 Claim. (Cl. 248—43)

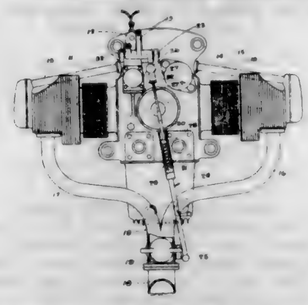
In an antennae mount: a bracket comprising a body member from which corner member extends a pair of legs, one leg diverging from the other leg in providing a seat therebetween said body member for engagement with a corner of

a chimney, said body member including an arm integral with and extending outwardly symmetrically from said body member, an opening in said arm for a mast, said body arm between



the body member and said opening having one bolt opening parallel to one of said legs and offset therefrom a second bolt opening between the body member and said arm opening parallel to the other of said legs.

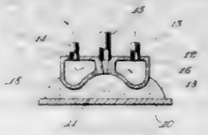
2,530,741
DIESEL ENGINE IDLING CONTROL
Fred A. Thaheld, Brea, Calif., assignor, by mesne assignments, to Diesel Power Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application February 11, 1946, Serial No. 646,851
2 Claims. (Cl. 123—27)



1. Apparatus for improving the idling characteristics of an aircraft compression ignition engine having a throttle controlled fuel injection device arranged to inject solid fuel into a combustion chamber and an exhaust pipe leading from said combustion chamber, comprising: a turnable element mounted in said exhaust pipe providing a variable restriction, means for turning the element to increase the restriction including connector means actuated by the fuel injection throttle, said connector means including a lost motion connection whereby a substantial portion of the operative travel of the throttle is ineffective for turning said element, and whereby the degree of restriction is increased as the throttle approaches closed position.

2,530,742
PROCESS OF MANUFACTURING AN OPTICAL ELEMENT
Pieter Martinus van Alphen, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 14, 1946, Serial No. 641,179
In the Netherlands July 19, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 19, 1961
6 Claims. (Cl. 18—58)

1. A method of manufacturing an optical element from a material which is gelatinizable in solution, comprising the steps of placing a quantity of the material in solution upon the surface of a support to which the gelled material adheres, forming the said material in solution into a gelled mass having predetermined thick-

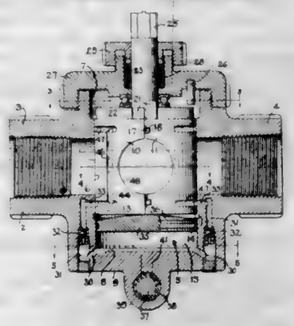


ness and length dimensions, artificially hardening said mass by the action of a hardening agent, and thereafter desiccating the so hardened mass to reduce its shape to that of the optical element.

2,530,743
SECONDARY EMISSIVE ELECTRIC DISCHARGE TUBE
Cornelis Frederik Veenemans, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 9, 1946, Serial No. 668,531
In the Netherlands April 17, 1942
1 Claim. (Cl. 250—174)

An electron discharge tube comprising a primary cylindrical cathode for generating electrons, a secondary electron, emissive electrode, electron and heat shielding means interposed in the direct paths between said cathode and the secondary emissive electrode, and electrodes for directing electrons from said cathode to the secondary emissive electrode along curved paths, said electrodes comprising an apertured wire gauze deflector having a cylindrical parabolic shape and having the focal line thereof substantially coincident with the axis of the cathode.

2,530,744
LINE PRESSURE LUBRICATED PLUG VALVE
Alexander S. Volpin, Houston, Tex.
Application October 25, 1943, Serial No. 507,551
11 Claims. (Cl. 251—93)



1. A rotary plug valve comprising a housing, a flow passage therethru, a plug chamber interrupting said passage to form opposed ports, a two segment plug in said chamber, resilient means normally urging said segments apart and against

said ports, means to support said plug above the base of said chamber, a sealing material reservoir in said chamber below said plug, a barrier in said reservoir, a distribution groove enclosing each port when the plug is in closing position, a conduit from below the barrier in said reservoir to each groove, means in the base of said housing to inject material to fill said reservoir and thru said conduits so as to unseat the plug segment on the high pressure port and flush out the groove.

2,530,745

TRANSISTOR MICROPHONE WITH CONDUCTIVE GRAINS

Robert L. Wallace, Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 10, 1948, Serial No. 64,681
8 Claims. (Cl. 179—121)

1. A semiconductive body with a surface, said surface having at least two parts, a first plurality of point contact means engaging one part of the surface of said body, a second plurality of point contact means engaging another part of the surface of the body, and vibration-responsive means for varying the contact pressure of at least some of said members with said body.

2,530,746

POUCH TYPE GOLF BALL CLEANER HAVING A WASHABLE INNER LINING

John K. Wetherby, Minneapolis, Minn.

Application January 2, 1947, Serial No. 719,787
3 Claims. (Cl. 15—210)

1. A golf ball cleaning pouch comprising an outer open-mouthed casing formed of flexible waterproof material, the inner surface of which casing is slightly tacky to produce a friction grip against other material, and a bag-like lining formed of heavy toweling and received within said casing and secured to the casing only at the upper edge of the lining whereby the major portion of the lining may be pulled out of the casing, moistened, wrung out, and then replaced within the casing, and the casing sides will frictionally grip the lining to prevent relative movement between the lining and the casing as a golf ball is worked back and forth against the lining within the pouch.

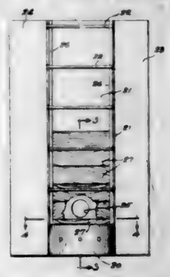
2,530,747

FLUME GATE FOR CRANBERRY BOGS AND THE LIKE

Paul J. Whipple, Plymouth, Mass.

Application June 21, 1947, Serial No. 756,245
6 Claims. (Cl. 61—12)

6. A flume gate for use in connection with cranberry bogs and the like, comprising a circular cement-filled base, an upright wall embedded in said base rising therefrom to a substantial height and being at least cylindrical in part, vertical channel irons extending along opposite sides of said wall, the wall defining an inlet opening in one side, an outlet duct leading from said wall



near its lower end, and a series of spill-boards removably retained at the ends in said channel irons.

2,530,748

RADIO REPEATING SYSTEM

Henry T. Winchel, Roscoe, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application August 17, 1945, Serial No. 611,010
8 Claims. (Cl. 250—15)

1. In a radio communication system: a plurality of sub-stations distributed along a route of propagation, each sub-station including means for receiving signal-modulated wave energy in both a first and a second frequency band, and means for radiating signal-modulated wave energy in one of said frequency bands; and a plurality of repeating stations distributed along said route of propagation, each repeating station including: a first means for directionally receiving signal-modulated wave energy within said first band from one direction along said route and directionally retransmitting said signal modulation on wave energy in said second band in another direction along said route, a second means for directionally receiving signal-modulated wave energy within said first band from said other direction along said route and directionally retransmitting signal-modulation on wave energy in said second band in said one direction, a third means for non-directionally receiving signal-modulated wave energy in said second band and non-directionally retransmitting said signal modulation on wave energy in said first band, and means responsive to the presence of output energy in any one of said receiving means for disabling the other two receiving means.

2,530,749

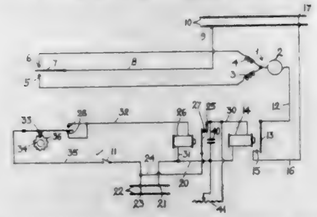
CONTROL DEVICE WITH IMPULSE DRIVE

Michel N. Yardeny, Robert Bernas, and Simon A. Goldberg, New York, N. Y., assignors to Consolidated Development & Improvements Corp., a corporation of New York

Application March 16, 1946, Serial No. 654,974
2 Claims. (Cl. 318—346)

1. In an apparatus for selectively displacing a load, the combination, with a motor operatively

coupled with the load, of a condenser, a charging circuit for said condenser, a discharging circuit for said condenser, a relay serially included in one of said circuits, a normally open energizing circuit for said motor, said relay having contacts adapted to close said energizing circuit when the



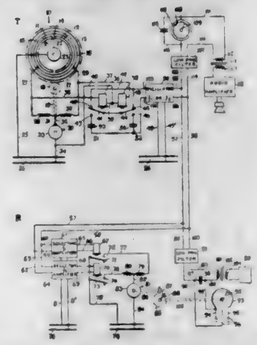
relay is operated, and switch means selectively operable at a variable rate to close, alternately, said charging and discharging circuits, thereby causing intermittent operation of said relay and displacement of the load at a rate dependent upon the operating rate of said switch means.

2,530,750

TWO WIRE FOLLOW-UP SYSTEM

Michel N. Yardeny, New York, Robert Bernas, Bronx, and Simon Goldberg, New York, N. Y.; said Bernas and said Goldberg assignors to said Yardeny

Application January 29, 1948, Serial No. 5,064
8 Claims. (Cl. 318—31)



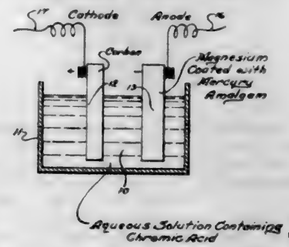
8. An electric control apparatus of the follow-up type for placing a useful load in any desired position comprising a pair of independently movable control members at a control point, one member including electrically conductive elements separated by a gap, the other element including a contact element for engaging the conductive elements, drive means including a reversible pilot motor for moving one of the members, the other being otherwise movable, circuit means including the control members and the pilot motor for controlling the rotational direction thereof by the relative position of the control members, a reversible motor for moving the load at a remote point, oscillating means at the control point capable of producing a plurality of different frequencies, second circuit means including the control members and the oscillating means for frequency control of the latter by the relative position of the control members, a plurality of selective means at the remote point, each responsive to a different one of the frequencies of the oscillating means, electric connections between the oscillating means and the selective means for control of the latter by the oscillating means, third circuit means including the selective means and the load motor for controlling the rotational direction of the load motor and the stopping thereof by the selective means, said pilot motor and said oscillating means being connected to be rendered inoperative for the purposes aforesaid when the said contact element occupies the gap, electric means capable of receiving signals connected at the remote point with said electric connections for transmitting the said signals to the control point, electric signal means responsive to the signals connected at the control point with said electric connections, filter means included in said electric connections, said filter means being constructed to block signal frequencies corresponding substantially to one of the frequencies of the oscillating means to reach the selective means, thereby preventing such frequencies to affect the selective means, and second filter means included in said electric connections, said second filter means constructed to block frequencies originating in the oscillating means to reach the signal means.

2,530,751

PRIMARY CELL

Edward L. Anderson and Lulu B. Anderson, Los Angeles, Calif., assignors of one-half to Gladys H. Bucklin, Fresno, Calif.

Application July 28, 1947, Serial No. 764,100
4 Claims. (Cl. 136—100)



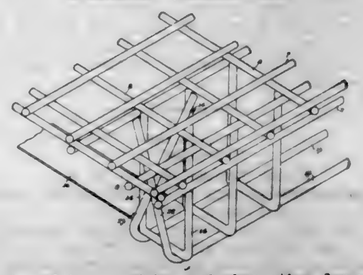
1. A primary electric cell comprising a body of electrolyte containing chromic acid, first and second electrodes in contact with the body of electrolyte, one of the electrodes comprising a body of magnesium metal, at least a surface portion of the said electrode having mercury associated with the magnesium.

2,530,752

PALLET

Oscar F. Arthur, Connellsville, Pa.

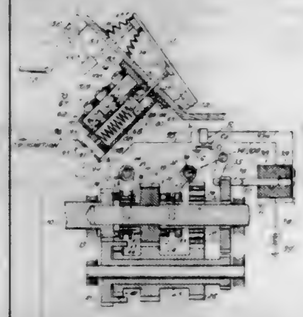
Application May 3, 1946, Serial No. 667,215
3 Claims. (Cl. 248—120)



3. A pallet comprising a deck portion, leg members secured at their upper ends to the deck,

and tie rods secured in laterally-spaced relation to the lower ends of the leg members, some of the tie rods having extended end portions that are bent upwardly and laterally to form diagonal struts whose extremities are secured to the deck, and others of the tie rods having their end portions bent upwardly in a plane that crosses the planes in which the first-named end portions are bent, to thereby brace the pallet against distortional stresses in both longitudinal and transverse directions.

2,530,753
CHANGE-SPEED TRANSMISSION CONTROL
Oscar H. Banker, Evanston, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application October 26, 1944, Serial No. 560,483
17 Claims. (Cl. 74—472)



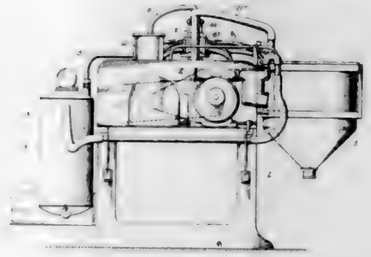
1. In combination, a vehicle comprising a throttle-controlled engine, a throttle control member for said engine, road wheels, a change-speed transmission in power transmitting relation between said engine and said road wheels and adjustable from one speed transmitting condition to a lower speed transmitting condition upon the actuation of an adjusting means therefor, electric circuit means conditionable with respect to its electric current carrying condition for causing actuation of the transmission adjusting means and including switch means operable to so condition the same, and a switch operating structure adapted to transmit an operating force from the throttle control member to said switch means, said switch operating structure including a fluid body through which such force is imposable from the throttle control member to the switch means for operating the latter when the throttle control member is advanced abnormally quickly and said structure also including escape means through which the fluid can escape to incur volumetric decrease of the body and thus avert imposing enough force therethrough for operating the switch means when the throttle control member is advanced more slowly.

2,530,754
OAR
Frank Bienert, Bronx, N. Y.
Application January 26, 1948, Serial No. 4,421
4 Claims. (Cl. 9—24)

1. An oar comprising a loom having its lower end formed with parallel flat surfaces, a blade formed with a medial longitudinal slot extending in from its upper end to freely embrace the lower flattened end of the loom, the blade secured to the loom by a transversely extending pivot passing through the blade parts near their upper edge and the loom adjacent the

upper end of the flattened part, with the end of the loom extending below the pivot to engage a substantial part of the blade.

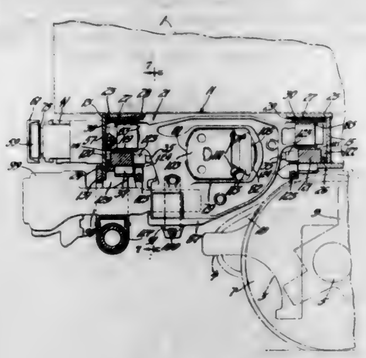
2,530,755
APPARATUS FOR FILLING CONTAINERS WITH LIQUID
David William Bingham, Brighton, Victoria, Australia
Application September 23, 1946, Serial No. 698,684
In Australia January 16, 1946
7 Claims. (Cl. 226—95)



1. In apparatus for filling bottles and other containers with predetermined quantities of liquid and the like, an endless conveyor for a series of filling heads, said conveyor having a trackway for guiding the filling heads forward in a straight line above and in parallel spaced relationship with a separate conveyor for bottles to be filled, means for effecting vertical movement of each filling head relative to its conveyor as it passes through said trackway, and means for preventing both vertical and lateral displacement of the filling head conveyor while it is passing through said trackway.

2,530,756
DRAFT GEAR
Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 3, 1946, Serial No. 667,217
13 Claims. (Cl. 213—67)

2. A railway draft gear yoke having oppositely projecting end support portions and an opening for receiving cushioning means extending transversely therethrough intermediate said support portions, said yoke having coupler attaching



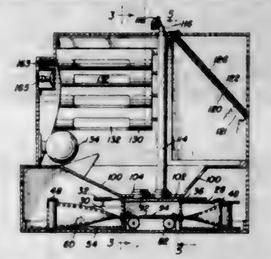
means offset laterally from a line connecting the said end support portions.

2,530,757
EXTRACTION OF SULFURIC ACID SLUDGE
David W. Bransky, Chicago, Ill., and Norman E. Lemmon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 4, 1945, Serial No. 632,812
5 Claims. (Cl. 260—504)

1. The method of recovering intermediate water-soluble sulfonic acids from unhydrolyzed sulfuric acid sludge containing water-soluble black sulfonic acids, intermediate water-soluble detergent-type sulfonic acids and preferentially oil-soluble sulfonic acids, resulting from the treatment of hydrocarbon oils with strong sulfuric acid, comprising extracting said acid sludge with a chlorinated hydrocarbon solvent, in the absence of added water, separating the chlorinated hydrocarbon extract containing intermediate water-soluble detergent-type sulfonic acids and preferentially oil-soluble sulfonic acids, from the acid sludge, and extracting preferentially oil-soluble sulfonic acids from the chlorinated hydrocarbon extract with a predominantly aliphatic hydrocarbon solvent.

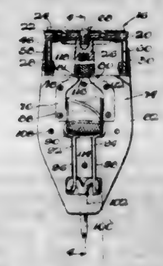
2,530,758
IDENTIFICATION AND FINGERPRINT CAMERA
William T. Cirone, Yuma, Ariz., assignor of seventy-five per cent to Photocheck Company, Yuma, Ariz.
Application January 24, 1949, Serial No. 72,368
14 Claims. (Cl. 95—11)

1. In a photographic apparatus, a casing, a lens disposed in said casing, a second lens disposed adjacent said first lens, extensible means mounted in the casing above said second lens for receiving images disposed exteriorly of the casing and reflecting them on to the second lens, shutters for said lenses, means for simultaneously actuating said shutters, a plurality of tubes disposed in said casing for receiving the fingers of an individual and having cut-out portions to expose the tips of fingers inserted therein, switches disposed in said tubes and adapted to be closed by the fingertips of an individual, said



switches being adapted to control an operating circuit for said means for actuating the shutters.

2,530,759
ELECTRIC RAZOR
Laurence H. Collins and Edwin C. Smith, Baltimore, Md.
Application December 5, 1946, Serial No. 714,318
21 Claims. (Cl. 30—45)

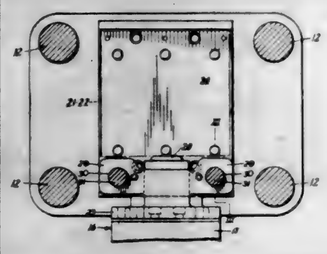


14. An electric razor comprising a plurality of hollow sections of insulating material adapted to be secured together to form a water-tight casing having parallel side extensions projecting upwardly beyond the top of the casing to define a recess, the top of the casing between the ends of the recess having a relatively thin wall section, a unitary razor head assembly comprising a guard having downwardly extending end portions, a blade bed, means resiliently supporting said bed from said end portions to allow reciprocating movement of the bed with respect to the guard, a blade on said bed, and means to secure the blade on the bed, means formed on said side extensions to slidably and frictionally receive the end portions of said guard whereby said head assembly is removably positioned on the casing, and means to reciprocate said bed and blade with respect to the guard comprising an electromagnet core positioned wholly within the casing and having spaced apart pole pieces adjacent the inner side of said wall section, together with a permanent magnet armature carried by said bed and positioned within said recess with an end located a slight distance above said wall section and in inductive relation with the pole pieces when the head assembly is frictionally positioned on said extensions.

2,530,760
DIE-CASTING MACHINE
William Coulthard, Scotby, near Carlisle, England
Application February 23, 1949, Serial No. 77,850
In Great Britain February 11, 1948
2 Claims. (Cl. 22—68)

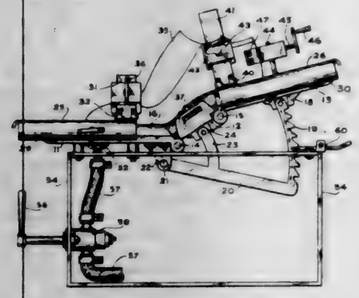
1. In a die-casting machine of the type wherein the opposed sides of a frame are connected by

parallel tie rods, a die carrier fixed on one of the sides of the frame, a cooperative die carrier mounted on the tie rods for movement relative to said fixed die carrier, and a shooting cylinder positioned for loading the dies of said carriers, the combination with said fixed die carrier of cantilever support pins fixed thereto and freely projecting forwardly therefrom towards the mov-



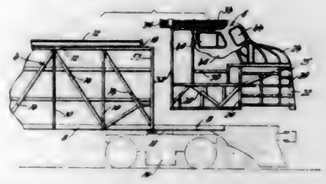
able die carrier, sockets in the movable die carrier for slidably receiving the free ends of said pins when the dies are closed, and apertured lugs on said shooting cylinder and slidably mounted on said pins, whereby the shooting cylinder is removably suspended from said pins in an operative position in relation to the dies and the reactionary forces between the dies and cylinder are exclusively taken by said pins.

2,530,761
PNEUMATIC APPARATUS FOR THE MANUFACTURE OF CEMENTED SHOES
Carlos Fernando Delsordo, Mexico City, Mexico
Application April 17, 1947, Serial No. 741,994
In Mexico April 24, 1946
5 Claims. (Cl. 12—33)



1. In a machine for use in the manufacture of shoes, the combination comprising a support, a sectional bed including a front section fixed to the support, an intermediate section pivoted at one end to the front section, a rear section pivoted to the other end of the intermediate section, means angularly adjustably mounted on the front section and slidably and pivotally connected to the intermediate and rear sections, a pneumatic cushion supported on the bed, a recessed front plate adjustable lengthwise of the front section, extensible bridge means mounted on the front plate and bridging the recess, a recessed rear plate adjustable lengthwise of the rear section, and extensible bridge means mounted on the rear plate and bridging the recess thereof.

2,530,762
LOCOMOTIVE CAB CONSTRUCTION
Andrew G. Finigan, Berwyn, Frank Bruchtel, Oak Lawn, and Martin P. Blomberg, Hinsdale, Ill., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 29, 1943, Serial No. 516,008
5 Claims. (Cl. 105—396)



1. In a fabricated body frame for a railway vehicle, a body underframe subassembly, body side frame subassemblies and a body nose and cab frame subassembly including collision frame members connecting the outer end and lower side frame members thereof, said body side frame and said body nose and cab frame subassemblies being connected to the sides of said body underframe subassembly and having horizontally overlapping adjacent end members secured together in abutting relation.

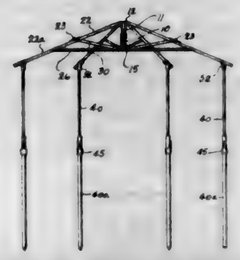
2,530,763
SCREW GRIPPING SCREW DRIVER
Roy E. Gearhart, Kansas City, Mo., assignor to Herbert H. Twente, Independence, Mo.
Application August 10, 1946, Serial No. 689,691
10 Claims. (Cl. 145—50)

1. A screw holder comprising a pair of shafts each having a blade portion on one end and a lateral projection on its opposite end, said blade portions terminating in substantially the same plane; a tubular member for supporting said shafts for oscillatory movement in parallel relation with each other said tubular member having flattened ends to guide said shafts; a collar fixed on one end of the tubular member, said collar having circumferentially extending slots for passage therethrough of said projections; a sleeve longitudinally movable over said collar and having angularly disposed slots for receiving said lateral projections to effect partial rotation of the shafts upon longitudinal movement of the sleeve on said collar; a spring for moving the sleeve in one direction; and a handle fixed to the sleeve for manual movement of the sleeve in the opposite direction.

2,530,764
COASTER BRAKE
Hollis K. Gleasman, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application May 29, 1947, Serial No. 751,226
1 Claim. (Cl. 188—26)

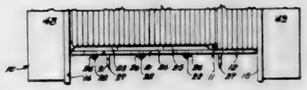
In a coaster brake, an axle, an anchor member non-rotatably mounted thereon, a wheel hub journalled on the anchor member, a brake applying member slidably mounted on the axle, a brake member formed to frictionally connect the hub to the anchor member responsive to movement of the brake applying member toward the anchor member, means for moving the brake applying member toward the anchor member, said brake-applying member and anchor member having axially extending rectangular recesses, a rectangular key member slidably mounted at its ends in said recesses in the anchor member and the brake applying member respectively and forming a splined connection therebetween; and yielding means for separating the brake applying member from the anchor member when the moving means are released comprising a pair of compression springs located between the ends of the key and the anchor member and the brake applying member respectively and serving to maintain said key centralized with respect to said members.

2,530,765
TENT
Roy T. Greenup, Quilcene, Wash., assignor of one-half to H. Sanford Saari, Tacoma, Wash.
Application March 5, 1948, Serial No. 13,167
2 Claims. (Cl. 135—4)



1. In a tent of the character described, a collapsible top frame structure including a central, vertical hub member comprising relatively short telescopically assembled, separable upper and lower sections, a releasable latch means for securing said sections in assembled relationship, a plurality of ribs with inner ends pivotally attached to the upper section of said hub member and radiating outwardly and downwardly therefrom; each rib comprising inner and outer end portions, hinged together end to end to break downwardly at the joint in collapsing the top frame structure, two braces for each of the ribs, each being pivotally fixed at its inner end to the lower end portion of the lower section of the central hub member, one being pivoted at its outer end to the lower end portion of the rib beyond the hinged connection and the other being pivoted to the rib above the hinge; said central hub member terminating above the level of the outer ends of the ribs when extended; said outer portions of said ribs being adapted to be folded back upon the inner end portions and all ribs and braces being adapted to be brought substantially together and in parallel relationship upon disconnection and separation of the sections of the central hub member.

2,530,766
TRAVELING BLOCK LIMIT CONTROL
Clarence W. Halderman, Ojai, Calif.
Application February 14, 1948, Serial No. 8,487
14 Claims. (Cl. 254—173)



8. A safety device for use with an oil well cable winding drum, comprising an outwardly deflectible member positioned adjacent the side of the drum, means carried by said member and deflectible outwardly from said drum to an operative position removed a predetermined distance therefrom in response to the winding of a predetermined critical turn on said drum, a cam movable in response to movement of said means, and control means actuated by said cam in response to said outward deflection of said means.

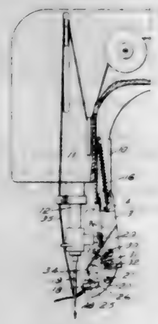
2,530,767
GEAR-TOOTH ROTARY PUMP
William Wilson Hamill, Little Aston, England
Application January 25, 1946, Serial No. 643,251
In Great Britain January 31, 1945
1 Claim. (Cl. 103—126)

A gear tooth rotary pump comprising a pump chamber having an inlet and an outlet, meshing pump gears in said chamber, means for driving said gears, and an elastic covering on the teeth of at least one of said gears, said gear teeth having reduced shank portions and enlarged end portions and the respective covers therefor each having a socket to cooperate with the shape of its respective tooth to retain said covering in position.

2,530,768
NEEDLE THREADER
James Hickey, Portland, Oreg.
Application September 26, 1949, Serial No. 117,761
5 Claims. (Cl. 112—225)

1. In a needle threading attachment of the character described for a sewing machine, a support adapted to be secured to the sewing machine head, a main arm hingedly connected with said support, a side plate attached to the lower portion of said main arm, a thin, resilient, wire-like element, the outer end of said element extending forwardly from said plate and terminating in a thread-engageable hook adapted to pass through the eye of the needle, a socket for securing the other end of said element on said plate, a guideway for said element on said plate between said socket and said forwardly-extending outer end, said guideway permitting limited movement of said outer end inwardly on said plate, and a guiding shield mounted on said main arm above said side plate, said guiding shield having a cam-like

surface arranged so as to be engaged by a member movable simultaneously with the needle when the needle moves downwardly from raised posi-



tion, whereby to cause said guiding shield, and therewith said needle threading attachment, to be moved away from said needle.

2,530,769

DIPHENYL AMINE DERIVATIVES

Arthur L. Hollis, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application January 12, 1950, Serial No. 138,270

2 Claims. (Cl. 252—401)

1. A liquid oily composite product useful as an antioxidant and being essentially composed of a mixture of (1) p,p'-di-tertiaryoctyl diphenyl amine, (2) p,p'-di-alphaphenethyl diphenyl amine, (3) p-tertiaryoctyl-p'-alphaphenethyl diphenyl amine, (4) p-mono-tertiaryoctyl diphenyl amine and (5) p-mono-alphaphenethyl diphenyl amine in the ratio of 50 to 70% by weight of compounds (1), (2) and (3) to 30 to 50% by weight of compounds (4) and (5), said product resulting from the reaction of 1.3 to 2.0 moles of a hydrocarbon mixture containing diisobutylene and styrene in the ratio of 2 to 5 parts by weight of diisobutylene to 1 part by weight of styrene, with 1 mole of diphenyl amine.

2,530,770

FUNGICIDAL COMPOSITION

Sever L. Hopperstead, Brighton, Mich., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 6, 1946, Serial No. 695,291

2 Claims. (Cl. 167—42)

1. A fungicidal composition containing as the essential active ingredients polyethylene polysulfide and lauryl isoquinolinium bromide dispersed in an aqueous solution of sodium lignin sulfonate, there being present in said composition about one part by weight of the bromide for each 1 to 50 parts by weight of the polysulfide in 500 to 5,000 parts by weight of aqueous dispersion.

2,530,771

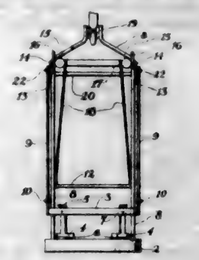
LIFTING MECHANISM

Oliver C. Kemp Hutchinson, Alton, Ill.

Application June 18, 1945, Serial No. 600,166

8 Claims. (Cl. 294—67)

1. Carrying mechanism for a vessel having bulging sidewalls, comprising in combination a support ring of greater diameter than said vessel, a plurality of wedge members, hanger means carrying said ring, a support for said wedge members movably mounted on said hanger means, means for inserting said wedge members between said ring and said vessel in position for engaging



the bulging sidewalls of said vessel while bearing against said ring, stop means on said hanger for limiting the movement of the wedge members relative to the support ring, and means for connecting said hanger members to a hoist.

2,530,772

PHENOLIC CONDENSATION PRODUCT

Carl E. Johnson, St. Louis, Mich., and Richard C. Waugh, Boulder, Colo., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application November 23, 1946, Serial No. 711,828

5 Claims. (Cl. 260—619)

1. The process of preparing a phenolic condensation product which comprises mixing a substantially anhydrous phenol with a hydrocarbon complex prepared by treating an aliphatic hydrocarbon with an active inorganic halide of the Friedel-Crafts type, said complex being essentially a chemical combination of said inorganic halide and an unsaturated hydrocarbon oil having an average molecular weight between about 300 and about 600 and containing at least two double bonds per molecule, the ratio of said phenol mixed with said hydrocarbon complex being selected between about ¼ and about 2 mols per mol of said inorganic halide present in said complex, subjecting the resultant mixture to a reaction temperature between about 0° F. and about 200° F., and separating a phenolic condensation product thus produced.

2,530,773

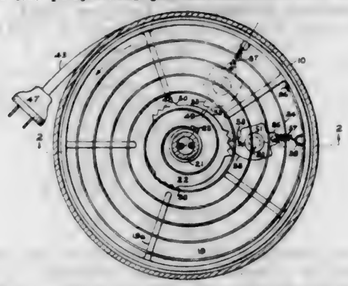
REEL

James E. Johnson and Charles R. Yirava, Cleveland, Ohio, assignors to Benjamin Reel Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application January 31, 1947, Serial No. 725,576

16 Claims. (Cl. 191—12.4)

1. A reel assembly comprising a spool having an inner drum upon which an electrical wire cord may be wound and upper and lower retaining members secured thereto and extending radially therefrom to form with the inner drum means for retaining a cord wound upon said drum, a central non-rotatable support within said drum and having its upper end extending beyond the said drum and beyond the upper retaining member, a plate element on said central non-rotatable member extending radially therefrom above the plane of the upper retaining member, an annular element extending upwardly from the upper retaining member and surrounding the plate element, one of said elements being provided with projections and with recesses between said projections and each of the said projections having a pawl engaging surface and a pawl pivotally supported from the other of said elements and having a projecting portion adapted to engage each of said projections, a coil spring secured at one end to a portion of said pawl which is on the opposite side of the pivotal support for the pawl from the projecting portion thereof and secured



at its opposite end to the element whereon the pawl is pivotally mounted and serving to hold the projecting portion against the pawl-engaging surfaces of said projections when the said projecting portion and surfaces are brought into engagement with each other by the winding movement of the said drum, and a spirally wound spring secured at one end to a non-rotatable part of the reel assembly and at its other end to the spool for opposing the unwinding movement of the drum by a pull exerted upon the cord.

2,530,774

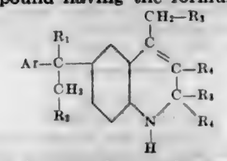
2,2,4-TRIALKYL-1,2-DIHYDRO-6-ARALKYL-SUBSTITUTED QUINOLINES AND METHOD FOR PRODUCING THE SAME

Henry J. Kehe and Thomas H. Shelley, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 10, 1945, Serial No. 615,506

9 Claims. (Cl. 260—283)

1. A compound having the formula



where Ar is a hydrocarbon aryl group, R_1 and R_2 are members selected from the group consisting of hydrogen and the methyl radical and R_3 and R_4 are selected from the group consisting of hydrogen and alkyl hydrocarbon radicals having from one to six carbon atoms.

2,530,775

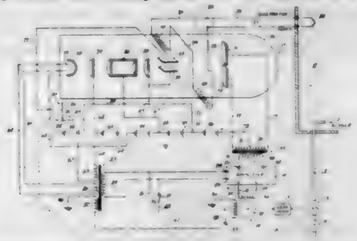
CONTROL APPARATUS

Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application November 9, 1944, Serial No. 562,679

3 Claims. (Cl. 236—78)

2. In a device of the class described, in combination: a source of alternating current of a selected frequency; a motor designed for operation by means of alternating current of said frequency; an amplifier for controlling operation of said motor; an electron discharge device including a plurality of anodes and means directing a beam of electrons along an axis passing between said anodes, so that said beam normally impinges equally upon said anodes to comprise equal anode currents; means including said source for modulating the intensity of said beam at said frequency, whereby to impart to said anode currents components of said frequency;



electrostatic and electromagnetic means for deflecting said beam from said axis, whereby to destroy the equality of said anode currents; a thermoelectric signal generating member responsive to the temperature in a space; means connecting said member to said electromagnetic deflecting means; means associating the anode currents of said discharge device, in opposed relation, with said amplifier to cause reversible operation of said motor, a voltage source, and means energizing said electrostatic deflecting means from said source in accordance with operation of said motor.

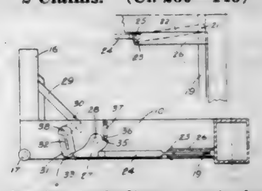
2,530,776

PIVOTED BOLSTER FOR LOG HAULERS

Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California

Application July 26, 1949, Serial No. 106,910

2 Claims. (Cl. 280—145)



1. In a hauler including a main beam, transverse cross beams extending laterally in spaced relation from each side of said main beam, load bolsters pivoted to the outer end of the cross beams, a catch frame fastened to said bolster and extending inward and downward, a trip lever pivoted to the cross beam engaging and locking said catch frame, a retainer plate integral with the trip lever, a spring-held latch normally engaging said retainer plate and thereby securing said bolster in an upright position, said latch including a curved outer edge, and the path of travel of said retainer plate at one outer surface substantially corresponding to said curved outer edge.

2,530,777

DISPENSING APPARATUS FOR PLASTIC SEALING COMPOSITIONS

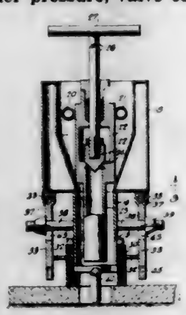
William F. Middlestadt, Baltimore, Md., assignor to The James Gibbons Company, Relay, Md.

Application December 31, 1946, Serial No. 719,584

7 Claims. (Cl. 94—39)

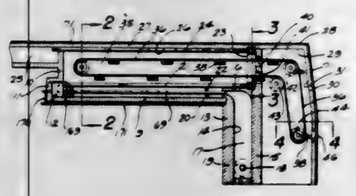
2. A portable apparatus for filling the gap between pavement sections with a heated plastic

sealing material, a depositing chamber formed of a continuous frame adapted to be guided over the gap, a flexible sleeve functioning as a squeegee mounted on the bottom edge of said frame and adapted to scrape over the surfaces of the pavement sections adjacent to the gap, means for clamping said flexible sleeve to said frame, a heating jacket for said chamber to maintain the plastic material in a state of low viscosity, means for feeding the plastic sealing material to said chamber under pressure, valve control means in



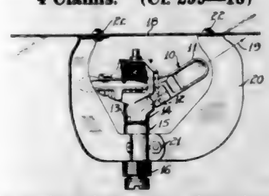
said chamber for maintaining the level of the plastic material adequate for filling the gap as the depositing chamber is moved thereover but below the point of overflowing from said chamber, said clamping means comprising a plate pivotally mounted on each side of said frame and provided with a presser bar extending towards the center of the frame, and adapted to be brought into pressing engagement with a part of the flexible sleeve fitted over the lowermost part of the frame.

2,530,778
BAKE OVEN FOR BAKING VARIOUS FOOD PRODUCTS
Edward H. Otto, Detroit, Mich.
Application August 28, 1947, Serial No. 771,047
6 Claims. (Cl. 107—57)



1. An oven construction of the class described, comprising: an oven; a combustion chamber at one end of said oven, said oven being supported on said combustion chamber and extending horizontally therefrom in elevated relation to the supporting surface of the combustion chamber; a heating element for supplying hot gases to said combustion chamber; tubes for conducting said hot gases lengthwise to the rear end of said oven; return tubes for conducting hot gases lengthwise to the forward end of said oven; a manifold at the forward end of said oven, said second mentioned tubes communicating at one of their ends with said manifold; tubes at the upper side of said oven communicating at one of their ends with said manifold and extending longitudinally of and within said oven at the upper side thereof; a forward wall on said oven having an inlet opening and outlet opening formed therein; an endless conveyor projecting through said openings; baking pans carried by said endless conveyor and adapted for being carried by the same longitudinally of said oven, inwardly through one of said openings and outwardly through the other of said openings.

2,530,779
PATTERN SPRINKLER
Herbert H. Owbridge, Burbank, Calif.
Application January 12, 1946, Serial No. 640,810
4 Claims. (Cl. 299—18)

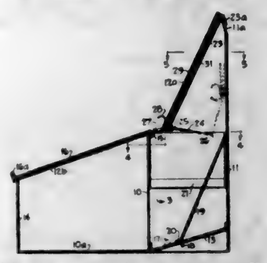


1. In a device of the class described, the combination of a water sprinkler assembly having a turnable element adapted to direct a stream of water upwardly and outwardly while the element turns, and a stationary disk member mounted coaxially of said element having a plurality of deflectors mounted in the path of the water stream as it turns, each of said deflectors being individually adjustable in a direction toward said path to restrict the range of said water stream as desired or away from said path to an inoperative position, whereby an area bounded by a non-circular perimeter may be watered.

2,530,780
PROTEIN BASE GLUES
Russell G. Peterson and Gerard R. Brieger, Tacoma, Wash., assignors to Balfour-Guthrie & Company Limited, Tacoma, Wash., a corporation of Delaware
Application November 20, 1948, Serial No. 61,252
9 Claims. (Cl. 106—154)

1. An adhesive composition comprising a base incorporating blood material of the group consisting of whole blood solids and blood albumin, and a conditioner of the group consisting of toluene and polymethylbenzenes in an amount by weight of 1 to 5% of said base.

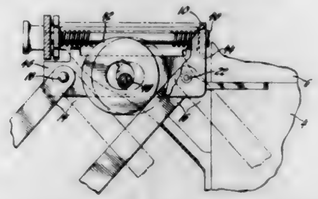
2,530,781
CARD CABINET
Chandler A. Phillips, San Mateo County, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 5, 1947, Serial No. 759,072
7 Claims. (Cl. 312—100)



1. A cabinet comprising a rear wall extending above the front part of the cabinet, a movable

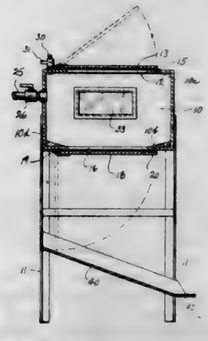
closure inclined upwardly toward the rear when in its closed position and in slidable engagement with said rear wall, and an arm pivotally connected to the cabinet and to the closure and arranged to swing the lower portion of the closure upwardly and toward said rear wall for moving said closure to its open position.

2,530,782
LIMIT STOP FOR PARALLELOGRAM MECHANISMS
Josue R. Picon, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 21, 1947, Serial No. 762,237
5 Claims. (Cl. 33—79)



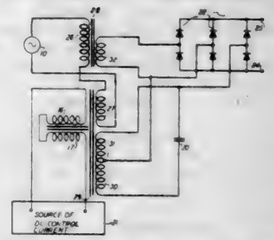
1. In parallelogram crank mechanisms with two parallel long arms and two parallel short arms each pair of adjacent ends of said long arms being connected to the opposite ends of each of said short arms respectively, one of said short arms being fixed to a laterally stationary supporting member and the other short arm being laterally movable relative thereto, including a pin located midway between the ends of one of the short arms, a floating limit stop including a washer surrounding said pin, said washer having an internal diameter greater than the diameter of said pin and an external diameter less than the distance between said long arms so located that the washer is simultaneously engaged by one of said long arms and said pin to provide a limit stop for said mechanism.

2,530,783
METHOD OF OPENING OYSTERS
John W. Pogany, Port Townsend, Wash.
Application November 16, 1948, Serial No. 60,275
2 Claims. (Cl. 17—45)



1. A method of opening oysters and other bivalves comprising confining the fresh oysters within an air-tight chamber and subjecting the chamber to vacuum, until the oysters have opened.

2,530,784
ELECTRIC CONTROL CIRCUIT
George H. Pohm, Lorain, Ohio, assignor to Lorain Products Corporation, a corporation of Ohio
Application October 17, 1947, Serial No. 780,416
4 Claims. (Cl. 321—6)



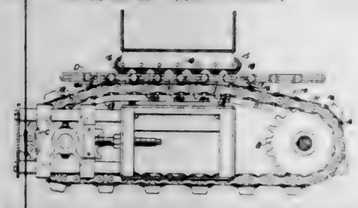
1. A rectifying arrangement comprising in combination, first and second transformers having reactance associated with them and having their primary windings connected in series and adapted for energization from a single-phase source of alternating current, and having their secondary windings connected to the input terminals of a polyphase rectifyer from which a load can be supplied with rectified current, a capacitor connected in parallel with one of said windings on the second transformer, said second transformer being saturable, said transformers supplying said polyphase rectifier with polyphase current at the normal loading of the device, said second transformer having a plurality of saturable core members, winding means on at least one of said saturable core members on said second transformer in conjugate relationship to the primary winding of the second transformer, said winding means being adapted to be energized by a source of direct current, whereby the rectified output voltage is controlled by the current from said source of direct current.

2,530,785
FOLDING DESK AND SEAT
Leo J. Rocca, Washington, D. C.
Application February 15, 1946, Serial No. 647,838
7 Claims. (Cl. 155—124)

1. A folding seat and desk apparatus comprising a front support, a rear support, said front support being wider than the rear support, means to pivotally connect the upper end of the rear support to the front support at a point spaced downwardly from the upper end of the front support, an elongated seat, means to pivotally connect the seat between its ends to the rear support at a point spaced downwardly from the upper end thereof, said seat having a forward part extend-

ing toward the front support, means carried by the front support for latching said seat in a horizontal position and maintaining said supports in a predetermined angular relationship, said means including a pair of brackets, each provided with a generally vertically extending slot having a generally upwardly and forwardly extending slot portion forming a latching part of the slot at its lower end, said latching means when unlatched, allowing the seat to be tilted downwardly against the rear support and the rear support to be nested within the front support, and a desk top pivotally mounted at the upper end of the front support for desired angular adjustment with respect to a user seated on the seat and facing said top, the latter being capable of being tilted downwardly against the front portion of the front support.

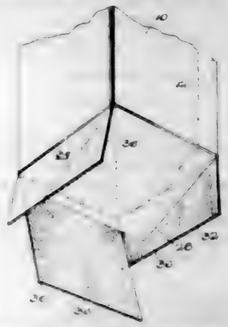
2,530,786
CHAIN DRIVE
Andrew G. Rose, Detroit, Mich., assignor to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan
Application June 10, 1946, Serial No. 675,692
9 Claims. (Cl. 74—221)



1. A driving chain having outwardly extending drive dogs characterized by adjacent inner links which are provided with cooperating abutting surfaces on the outer side of the centerline of said chain, and are provided with corresponding opposed surfaces on the inner side of said centerline having a clearance sufficient to permit free pivotal articulation in passing around sprocket members.

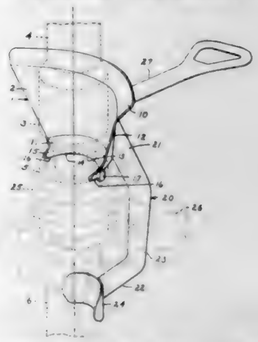
2,530,787
PAPER CONTAINER
Roy S. Sanford, Oakville, Conn., assignor, by mesne assignments, of one-half to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan, and one-half to a group comprising Ace C. Fessenden, Chicago, Ill., and Ace Carton Corporation, Chicago, Ill., a corporation of Illinois
Application December 6, 1945, Serial No. 633,218
8 Claims. (Cl. 229—5.5)

1. The method of sealing an open end of a paper board container having a plurality of side walls arranged to provide a polygonal cross section which comprises coating with a flowable adhesive a plurality of panels, said panels when overlapped forming a closure for said open end, overlapping said coated panels at said open end in superposed relation to close the open end of the container, at least a pair of said plurality of panels being positioned within the container, and subjecting one face of said superposed panels to pressure of a value sufficient to flow the adhesive outwardly to contact the walls of the container to seal all openings and cracks and to bond at least said pair of panels directly to the container walls, and to bond all of said panels together while simultaneously supporting the other face of the panels over the entire area thereof, and simultaneously supporting the exterior walls of the container adjacent the panels against movement outwardly in a direction at



right angles to the vertical axis of the container in response to the pressure exerted by the outwardly flowing adhesive.

2,530,788
PIPE STABBING DEVICE
Floyd L. Scott, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application October 24, 1946, Serial No. 705,421
4 Claims. (Cl. 255—1)

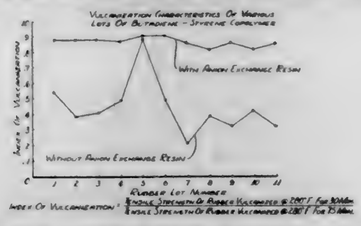


1. A stabbing device for drill and pipe strings where a lower box section is held stationary in a vertical position and a pin section is to be swung into alignment thereabove including, an arcuate stop member having a body portion open at one side adapted to be positioned upon the box section, said body portion having a tapered inner surface to stop and guide said pin section into the box section, an arcuate lip formed on and extending downwardly from the stop member and adapted to enter and engage the inner periphery of the section to resist the force exerted in stopping the movement of the pin section into aligned position thereabove, and handle means mounted on the body portion of the stop member.

2,530,789
VULCANIZATION OF RUBBER
Stephen T. Semegen, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 1, 1945, Serial No. 596,999
4 Claims. (Cl. 260—3)

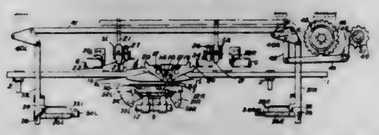
1. The method of equalizing the vulcanization characteristics of a plurality of batches or lots of

a solid rubbery material having varying vulcanization characteristics, said solid rubbery material being selected from the class consisting of rubbery copolymers of butadiene-1,3 and styrene and natural crude rubber, which comprises homogeneously dispersing throughout each batch or lot of said solid rubbery material compounding ingredients including sulfur, a vulcanization ac-



celerator and 0.1% to 5% by weight based on the solid rubbery material of a nitrogenous resinous reaction product of a polyphenol alkane, formaldehyde and an alkylene polyamine, said reaction product being substantially insoluble in water and aqueous acidic solutions, and then heating each compounded batch or lot until vulcanized, whereby vulcanizates of substantially uniform characteristics are secured.

2,530,790
KNITTING MACHINE
Arthur Shortland, Leicester, England, assignor to Mellor Bromley & Co. Limited, Leicester, England
Application May 6, 1948, Serial No. 25,502
In Great Britain May 13, 1947
18 Claims. (Cl. 66—127)



1. In a knitting machine, apparatus for driving a driven member to and fro between limit stops, comprising a driver movable to and fro, releasable coupling mechanism for establishing a positive driving connection between the driver and the driven member, and coupling release means carried by the driven member and operable by approach to either limit stop to render the coupling mechanism temporarily ineffective to transmit the drive in the approach direction but capable of re-engagement upon reversal of travel of the driver to transmit the drive in the reverse direction until again operated by approach to the other limit stop.

2,530,791
PAINTER'S SCAFFOLD HANGER
Howard Le Roy Smith, Rochester, N. Y.
Application February 17, 1945, Serial No. 578,368
1 Claim. (Cl. 248—317)

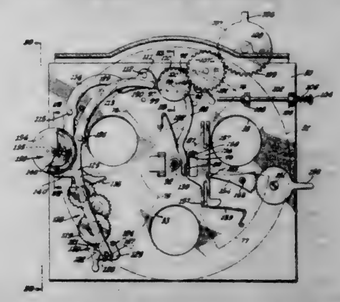
A hanger for a painter's scaffold comprising an upright bar threaded at the upper end thereof, a triangular shaped stirrup at the lower end of the bar, said stirrup having two equally inclined side members and a horizontal bottom member said inclined sides being bent inwardly and downwardly before connecting with the bottom member and forming shoulders on each side of the bottom member, upwardly projecting pins on said horizontal bottom member, a plate having a threaded opening therein with which the threaded end of the bar engages and from which it is supported, the top of the plate being made

volcano shaped around the threaded opening to increase the threaded engagement between the plate and the bar, and a handle on the plate by which the plate is turned.

2,530,792
TEXTILE MATERIALS MADE MILDEW RESISTANT WITH DI-(4-HYDROXYCHLOROPHENYL) DIMETHYL METHANE
William Dorsey Stewart and John Herman Standen, Yonkers, N. Y., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 4, 1946, Serial No. 667,475
3 Claims. (Cl. 117—138.5)

3. A textile material normally subject to destruction or deterioration by mildew rendered resistant to mildew by reason of deposit thereon of a single agent consisting of 0.25 to 1.0% based on the weight of the material of a di-(4-hydroxychlorophenyl) dimethyl methane.

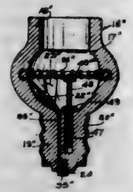
2,530,793
SHUTTER AND LENS SYSTEM FOR HIGH-SPEED COLOR CAMERAS
Richard Thomas, Westwood Village, Calif.
Application May 10, 1946, Serial No. 668,731
1 Claim. (Cl. 95—12.2)



In a camera, the combination of: a plurality of lenses arranged around a center; means for receiving the images from said lenses; a shutter means rotatable around said center, said shutter

means having walls to cover said lenses when the shutter means is in closed position, and spaces adjacent said walls to coincide with said lenses when said shutter means is in opened position; and shutter operating means for moving said shutter means between opened and closed positions, comprising a spring urging said shutter means toward closed position, shutter opening means having a spring element stronger than said spring and an engager engaging said shutter means whereby the force of said spring element may be transmitted to said shutter means to move the same into opened position against the force of said spring, and timing means for releasing said engager from said shutter means, thereby enabling said spring to return said shutter means to said closed position thereof.

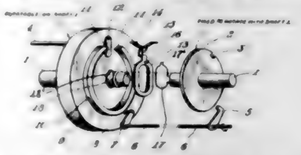
2,530,794
BUBBLING FLUID ORNAMENTAL DISPLAY DEVICE
Anthony Tiscione, Brooklyn, N. Y.
Application July 16, 1948, Serial No. 39,146
3 Claims. (Cl. 219—43)



3. A display device for use with an electric lamp socket of standard construction, comprising a hollow body of dielectric material and having at its top a seat for the lower portion of a bottle, a bottle containing a liquid which bubbles when heated having its bottom portion engaged in said seat, a chamber within the bottom of said body in communication with said seat, an electric heating element within said chamber, said body having its bottom portion beneath said chamber shaped to be screwed into the lamp socket and carrying electrical contacts connected with said heating element and mounted to make electrical contact with the contacts of the lamp socket to energize the heating element to supply the heat required to bubble the liquid of said bottle, and a bolt having the free end of its shank depended into a recess formed in said bottom portion, and a nut threadedly engaged on said bolt intermediate of its ends and resting on the bottom wall of said chamber for holding said bolt in desired vertically adjusted positions to provide a stop strap member upon which the bottom of said bottle can be rested holding said bottle in a desired adjusted position relative to said heating element to vary the rate of bubbling.

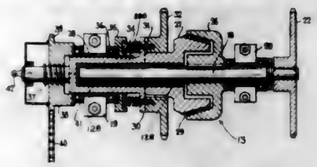
2,530,795
DEVICE FOR ARRESTING A SHAFT
Jacob Marinus Unk, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 28, 1948, Serial No. 51,605
In the Netherlands October 4, 1947
6 Claims. (Cl. 74—10.2)

1. A shaft positioning mechanism comprising in combination, a rotatable shaft to be positioned, a plurality of stop-rings mounted on said shaft, a plurality of pivotally mounted pawls arranged in a circle around said shaft, each of said pawls being positioned to cooperate individually with a corresponding individual stop-ring, a selecting member rotatably mounted on said shaft, said selecting member having a camming surface thereon, a plurality of cam surface followers each mechanically linked to a corresponding pawl, each of said cam surface followers being positioned to ride on said camming surface, said camming surface having a contour constructed and arranged so that in a preselected position of the



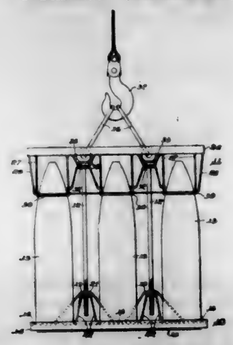
selector member, only one selected cam surface follower is caused to move to a position in which the pawl mechanically linked thereto is moved to a position of operative engagement with the corresponding stop-ring while the nonselected pawls are held in inoperative position with relation to their respective stop-rings due to their cam surface followers being in abutment with said camming surface.

2,530,796
SYNCHRONIZING DEVICE
Valone V. Weyant, Cleveland, Ohio, assignor to The Yoder Co., Cleveland, Ohio, a corporation of Ohio
Application November 13, 1946, Serial No. 709,579
16 Claims. (Cl. 192—54)



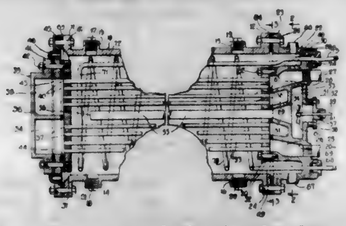
1. A device for synchronizing the operation of a driven member with that of a moving control member, which device comprises a driven shaft, sleeve means journalled on said driven shaft, a friction clutch member secured to said shaft, a mating clutch member secured to said sleeve member, a fixedly positioned housing for said shaft and said sleeve and with said sleeve member protruding therethrough, a disc member positioned on said sleeve adjacent said housing on the same side thereof as said clutch members, means securing said disc member to said sleeve member for relative axial movement therebetween, bearing means positioned on said sleeve member intermediate said disc member and said housing to facilitate relative rotational movement therebetween, spring means compressed between said disc member and said sleeve to urge said clutch member secured thereto into engagement with said other clutch member, means carried by said sleeve member for engaging with a member to be driven thereby, a threaded stud secured to the protruding end of said sleeve and extending axially therefrom, a gear nut threadedly engaged with said stud and adapted to engage with the control member, and a bearing positioned between said gear nut and said housing with said gear nut being held thereby against axial movement towards said housing whereby said gear nut controls the axial position of said sleeve member on said shaft and thereby the engagement of said clutch sections, said gear nut being adapted to be moved axially of said stud when said gear nut is rotating faster or slower than said sleeve whereby said spring means and stud cooperate to tighten or loosen the engagement of said clutch sections to bring said sleeve automatically to the speed of said gear nut.

2,530,797
CRATE
Oscar F. Arthur, Connellsville, Pa.
Application September 4, 1948, Serial No. 47,846
9 Claims. (Cl. 294—67)



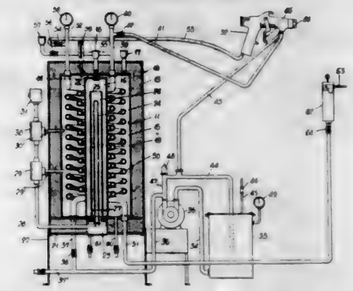
1. A crate comprising a fabricated metal base having a plurality of retaining members on its upper face, to prevent lateral shifting of shells and the like that are placed in upright position on the base, tie rods secured to the base and extending upwardly therefrom, bars attached to the upper ends of the rods and having vertically-disposed threaded holes, a cover having depending rack members in position to receive upper portions of the shells and to support them against lateral movements, the cover having a top sheet spaced above the rack members, and threaded anchoring rods extending through the cover and having threaded engagement at their inner ends with the said bars and at their outer ends having shouldered engagement with the cover, whereby the cover and base are detachably connected together to retain shells in the crate.

2,530,798
PREHEATER
Nathan A. Arvins and Abraham A. Arvintz, Brooklyn, N. Y., assignors to Blazel Corporation, a corporation of New York
Application November 11, 1944, Serial No. 563,028
3 Claims. (Cl. 257—240)



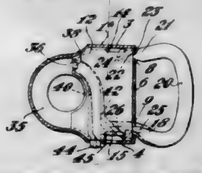
1. In preheaters employing two headers and a casing joining and spacing said headers, a tube unit between the headers and in spaced relation to the casing, a spiral coil encircling the tubes of said tube unit within the chamber of said casing, means in one header only of the preheater for circulating fluid and similar mediums through the tubes of the tube unit, the other header joining the casing through a ring structure, said coil and the chamber of said casing, and means for detachably coupling the casing in conjunction with said ring structure from the first header without disturbing the tube unit and coil or any of the connections with said first header.

2,530,799
PAINT PREHEATING AND SPRAYING APPARATUS
Abraham A. Arvintz and Nathan A. Arvins, Brooklyn, and Robert A. Arvintz, New York, N. Y., assignors to Sanicom Company, Inc., Brooklyn, N. Y., a corporation of New York
Application November 16, 1948, Serial No. 60,364
14 Claims. (Cl. 219—39)



1. A fluid preheater comprising a main insulated casing, a cylinder within said casing and spaced from the inner walls thereof to form a heat transfer chamber around said cylinder, a fluid circulating coil in said chamber, means comprising a heating element arranged in said cylinder for heating a transfer medium in the cylinder for, in turn, heating said chamber and the fluid in said coil, means within said cylinder for circulating the heat transfer medium therethrough and for quick heating of said medium, and an air coil in said chamber and heated by the same heating medium employed for heating the fluid coil.

2,530,800
WRIST WATCH CONNECTOR
Karl C. Augenstein, Cranston, R. I., assignor to Speidel Corporation, Providence, R. I., a corporation of Rhode Island
Application June 6, 1947, Serial No. 752,984
3 Claims. (Cl. 24—232)



1. A connector for a wrist watch or the like article, comprising an ornamental casing having top and side walls, an end wall having means for attachment to a bracelet and an opposite end having an opening, a fixed locking abutment within said casing adjacent to said opening, a resilient C-shaped shackle having one arm pivotally mounted at the opposite end of said casing so that the free end portion of its other arm may be swung through said opening into

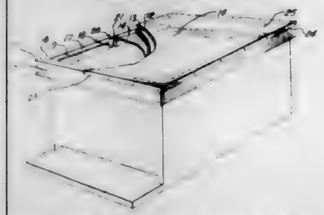
and out of the interior of said casing when said shackle is swung to and from closed position, said free end being formed with a latch dog having a cam surface engageable with said abutment to spring said shackle sufficiently to permit said latch dog to interlock with said abutment, thereby to hold said shackle in closed position, the pivotally supported end portion of said shackle having a part engageable with said casing when in closed position and operative to urge said shackle toward open position so that when said latch dog is disengaged from said abutment, the shackle swings to open position, and a latch release mounted within said casing having a part engageable with said free end to effect disengagement with said abutment and a second part projecting through a wall of said casing to permit manual operation of the latch release.

2,530,801

VENTILATED, INSULATED COVER FOR BEEHIVES

Havilah Babcock, Jr., Columbia, S. C., assignor to Babcock Honey Company, a corporation of South Carolina

Application December 14, 1948, Serial No. 65,223
6 Claims. (Cl. 6—1)



1. A ventilated, insulated cover for a beehive comprising a metal covered frame adapted for snugly enclosing the upper part of the beehive, said frame having downwardly extending passages terminating in exterior openings; insulating means adapted as a lining for the top of the frame and being provided with horizontally extending grooves in communication with the downwardly extending passages of the frame; and a smooth substantially solid metal sheet connected to the frame and positioned for retaining the insulating means adjacent to the top of the frame, said smooth metal sheet being provided with a plurality of perforations disposed in spaced relation to the grooves in the insulating means, whereby the warm moist air that rises in the beehive may pass through the perforations in the metal sheet, along the grooves in the insulating means, and through the passages and openings of the frame into the atmosphere.

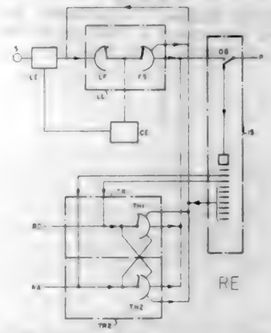
2,530,802

TELEPHONE SYSTEM EMPLOYING FINDER SWITCHES FOR CONNECTING CALLING LINES TO NUMERICAL SWITCHES

George Thomas Baker, Liverpool, England, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application November 11, 1944, Serial No. 562,940. Divided and this application August 3, 1948, Serial No. 42,165. In Great Britain September 16, 1944
10 Claims. (Cl. 179—27)

1. In a telephone system, two exchanges, a two conductor line extending between said exchanges, a trunk circuit in one of said exchanges including two double wound relays and a third relay, grounded batteries in each of said exchanges, a first circuit between one pole of the battery in said one exchange and one conductor of said line serially including one winding of each of said double wound relays, a second circuit between the other pole of the battery in said one exchange and the other one of the conductors of said line serially including said third relay and the other winding of each of said double wound relays, one of said double wound relays being differentially connected, contacts on said



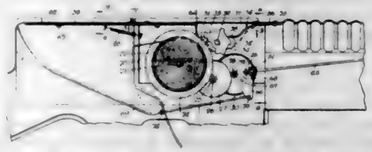
differentially connected relay normally short-circuiting said third relay, and means at the other of said exchanges operated to selectively connect either pole of the battery thereat to both conductors of said line or to connect said two conductors together, whereby said differentially connected relay is operated in response to the connection of either pole of the battery at said other exchange to both of said conductors, said third relay is operated in response to only one of said connections, and the other of said double wound relays is operated in response to any one of the three connections.

2,530,803

TOY MACHINE GUN

Samuel I. Berger, Newark, N. J.

Application May 8, 1946, Serial No. 668,290
8 Claims. (Cl. 46—10)



1. A toy machine gun comprising a sheet metal body having a barrel at the front thereof, a spring motor wholly within said body and wholly to the rear of said barrel, a slide within said body along a wall thereof and bearing the representation of a shell thereon, a window in the corresponding wall of said body exposing said shell to view, and a cam driven by said motor and coacting with said slide for longitudinal reciprocation thereof.

2,530,804

LUBRICATING COMPOUND

Sidney Bloomenthal, Chicago, and Fredric E. Wood, McHenry, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

No Drawing. Application October 8, 1948, Serial No. 53,594
5 Claims. (Cl. 252—37)

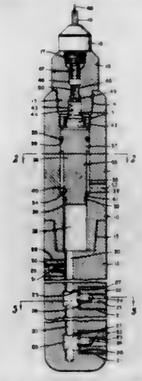
1. A lubricating compound comprising approximately 30% of a mixture of a petroleum lubricating oil with a wax having a wax melting point above about 150° F. and having incorporated therein an amount of aluminum soap such that the ratio of soap to wax is of the order of 1:15; 15% of a mixture of non-gaseous hydrocarbons containing small amounts of a poly carboxylic acid having at least 16 carbon atoms, and of a mutual solvent for hydrocarbons and water; and 55% of dibutyl.

2,530,805

CASING PERFORATING GUN

John A. Bond, Houston, Tex., assignor to McCullough Tool Company, Los Angeles, Calif., a corporation of Nevada

Application October 2, 1946, Serial No. 700,741
9 Claims. (Cl. 164—0.5)



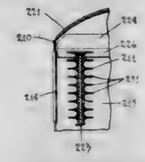
1. In a gun of the character described, the combination of: a body structure having a gun barrel to receive a projectile, an explosive chamber spaced from the inner end of said barrel to receive a firing charge, and a passage connecting the inner end of said gun barrel with said explosive chamber; and means in said passage for transmitting force from the explosion of the firing charge in said explosive chamber to the inner end of the projectile, comprising a substantially non-compressible intermediary propellant of flowable character, and a piston disposed between said explosive chamber and said intermediary propellant.

2,530,806

ELECTRIC SPACE HEATER

Alf M. Boxrud, Minneapolis, Minn.

Application January 1, 1945, Serial No. 570,932
3 Claims. (Cl. 219—34)



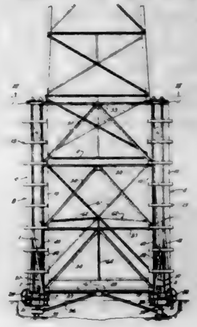
2. An electric heating element comprising a substantially planiform support, a resistor carried by the support and comprising an elongated undulated conductor, the undulations of said conductor being arranged with the nodes of the undulations disposed in a straight line spaced from and parallel to the surface of the support and with the portions of the undulations to the sides of the nodes lying in intersecting planes, the crests of the undulations engaging the support along spaced parallel lines.

2,530,807

JACKING STRUCTURE FOR TOWERS

Erwin A. Campbell, Wexford, Pa., assignor to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 31, 1949, Serial No. 124,665
11 Claims. (Cl. 254—92)



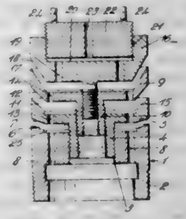
1. A jacking structure for a tower provided with a plurality of legs, said structure comprising a separate jack for each tower leg and braces for rigidly connecting the jacks together around the tower; each jack including a vertical frame, means adapted to connect the lower end of the frame to a tower leg near the surface of the ground to support the frame from said leg, a vertical screw rotatably mounted at its upper end in the top of the frame and suspended therefrom, means mounted in one end of the frame for rotating the screw, a lifting member threaded on the screw for vertical travel when the screw is turned, and means adapted to connect said lifting member to said tower leg, whereby after the leg has been separated into two sections at a point between the lifting member and the lower end of the frame the upper section of the leg can be raised.

2,530,808

WATERWORKS DEVICE

Vincent C. Cerasi, Tuckahoe, N. Y.

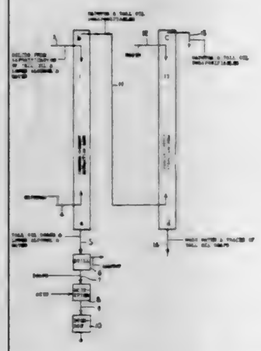
Application March 8, 1949, Serial No. 80,188
In Italy January 12, 1949
2 Claims. (Cl. 299—141)



1. A water works spray device adapted to emit sprays of varying shapes comprising, in combination, a cylindrical body threaded for connection with the water line and having an innerly-threaded bore portion, a plurality of cylindrical

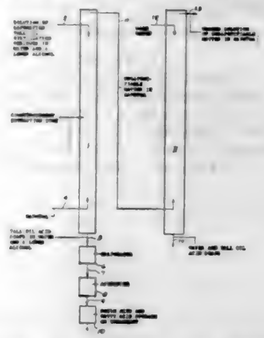
cup-shaped elements interconnected in superposed relationship by adjustable threaded engagement, said elements including a lower element, an upper element, and at least one intermediate element, each of said elements having a threaded bore and a threaded cylindrical projection engageable in the threaded bore of the next subjacent element, the projection of the lower element being engageable in the threaded bore portion of said body, said body, said lower element and said intermediate element having a peripheral inwardly inclined zone in which is received the base portion of the next superposed element and an axial recess defining an open space between said body and said elements, axial ducts extending through said body and said elements, the axial ducts of said body and said lower and intermediate elements extending into the respective axial recesses, and an axially-bored stopper threadedly engaged with the threaded bore of said upper element to restrict the flow of water from the axial ducts of said upper element.

2,530,809
FRACTIONATION OF TALL OIL
Roger M. Christenson and Stewart W. Gloyer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company
Application August 23, 1949, Serial No. 111,804
6 Claims. (Cl. 260—97.7)



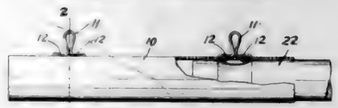
1. A process of obtaining the unsaponifiable matter of tall oil in concentrated form, which process comprises making up a solution of the tall oil soaps containing the unsaponifiable matter of tall oil from the manufacture of paper pulp in a concentration of about 5 to 25 per cent in isopropyl alcohol and water with the final solution containing from 15 to 50 per cent of isopropyl alcohol and the remainder water, and extracting out the unsaponifiable matter in said solution by countercurrently flowing the solution in contact with naphtha in a ratio of 1 to 20 parts by volume per part of tall oil soap solution at a temperature of 80 to 130° F., by continuously introducing the solution into an upper portion of an extraction zone and continuously introducing naphtha into a lower portion of the same zone, drawing off the solution of isopropyl alcohol and water at the lower end of the zone at a point below that of introduction of the naphtha and drawing off the solution of unsaponifiable matter in naphtha at the other end of the system at a point above that of introduction of the solution and evaporating the naphtha from the solution of unsaponifiable matter.

2,530,810
SEPARATION OF UNSAPONIFIABLE MATTER FROM TALL OIL RESIDUE
Roger M. Christenson and Stewart W. Gloyer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company
Application August 23, 1949, Serial No. 111,882
9 Claims. (Cl. 260—97.7)



1. A method of obtaining the unsaponifiable matter of tall oil, which method comprises saponifying with alkali a distillation residue of tall oil comprising 20 to 50% fatty acids, 20 to 50% rosin acids and 10 to 30% unsaponifiable matter, dissolving the resultant saponified mixture in water and isopropyl alcohol to give a final concentration of 7 to 50% isopropyl alcohol, then counter-currently extracting the unsaponifiable matter from the solution with naphtha and evaporating off the naphtha from the unsaponifiable matter.

2,530,811
STAPLE HAVING A CLOSED LOOP AND METHOD OF MAKING THE SAME
Lyman B. Cook, Haddon Township, Camden County, N. J., assignor to Acme Staple Company, Camden, N. J., a corporation of New Jersey
Application June 15, 1945, Serial No. 599,661
1 Claim. (Cl. 174—168)

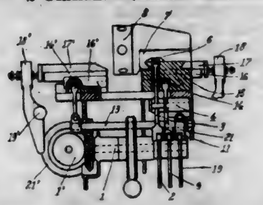


The method of attaching a staple to an article to provide a closed loop extending from the article with widely spaced prongs driven into the article when compared to the greatest width of the loop, with the intermediate portions between the prongs and the loop forming portions in contact with the article to which the staple is attached, comprising the forming of a staple having a cross bar, legs extending from the cross bar, the upper portions adjacent to the cross bar being parallel and relatively close to each other, widely spaced prongs at the ends of the legs parallel to each other and to the upper portions of the legs, and inclined intermediate portions extending in converging directions from the upper ends of the prongs to the lower ends of the upper portions the combined length of the intermediate portions being substantially equal to the distance between prongs and then driving the prongs into the article and during the driving drawing the junctions between the intermediate portions and the upper portions of the legs into contact with each other to form the closed loop by the upper portions of the legs and cross bar of the staple and force the intermediate portions into contact with the article.

2,530,812
SUPPORTING DETAIL FOR FLEXIBLE CONDUCTORS
Bertram H. Carmer, Jr., Maplewood, and Frank A. Dutra, Wyckoff, N. J.; said Carmer assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York, and said Dutra assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 10, 1947, Serial No. 760,066
1 Claim. (Cl. 174—135)

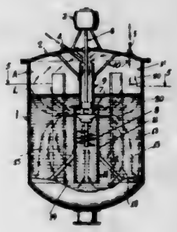
A support for flexible conductors comprising, a preformed arcuate shaped tubular member of relatively stiff insulating material, said member having intermediate its ends a portion having a substantially circular cross section, said member provided with a longitudinally extending slit on its periphery which extends the full length thereof with its edges in abutting relationship at said intermediate portion but diverging from each other adjacent its ends to provide substantially semicircular cross section portions at the extremities of said tubular member, and the inside diameter of said tubular member, at its intermediate portion, being substantially less than the outside diameter of the conductor it is intended to embrace, said tubular member being resilient to forces applied in a direction tending to widen the slit whereby the diverging end portions facilitate entry of the conductor.

2,530,813
AUTOMATIC LATHE
Georges Emile Cuttat, Geneva, Switzerland, assignor to Manufacture de Machines du Haut-Rhin, Haut-Rhin, France, a company of France
Application December 28, 1946, Serial No. 719,087
In France November 22, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires November 22, 1961
2 Claims. (Cl. 29—52)



1. In a single spindled automatic lathe with a turret, a frame, a first shaft element mounted in said frame transversely with respect to the lathe, a second shaft element mounted in said frame longitudinally with respect to the lathe, an angular gearing rotatably connecting said first shaft element and said second shaft element, a support fixed to said frame having a slot and bore therethrough and a longitudinal guide thereon, a turret carriage movable along said guide, a longitudinal rack fixed to said turret carriage, a toothed member the teeth of which mesh with said rack, said toothed member moving partly in said slot of said support and oscillatably mounted with respect to said frame, means carried by said first shaft element for imparting movement to said oscillatable member, a carriage having longitudinal and transverse movements with relation to said lathe, a guide fixed to said frame for guiding said carriage longitudinally with respect to the lathe, a rack sliding longitudinally in said bore and acting on said carriage, a second toothed member the teeth of which mesh with said rack and oscillatably mounted with respect to said frame, means carried by the first shaft element for imparting movement to said second oscillatable member, means oscillatably mounted with respect to said frame for acting on said carriage, and means carried by the second shaft for imparting movement to said third oscillatable member.

2,530,814
APPARATUS FOR AERATING LIQUIDS
George de Becze and Alfred J. Liebmann, Cincinnati, Ohio, assignors to Schenley Industries, Inc., a corporation of Delaware
Application October 12, 1945, Serial No. 621,956
3 Claims. (Cl. 261—93)



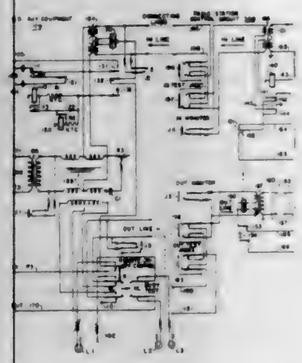
1. Apparatus for supplying gas in the form of bubbles to a pool of liquid, comprising a tank which has an upstanding peripheral wall and which is adapted to hold said pool, an upstanding and longitudinal liquid-conducting tube located in said tank, the bottom of said liquid-conducting tube being located above the bottom of said tank, said liquid-conducting tube having upper and lower open ends, a gas-conducting tube located in said tank above said liquid-conducting tube, said tubes having adjacent alined ends which are spaced from each other, the lower end of said gas-conducting tube being open, a shaft which has a lower shaft part located in said liquid-conducting tube and an upper shaft part located in said gas-conducting tube, said shaft being rotatable about its longitudinal axis, an impeller fixed to said shaft, said impeller having an end-wall which is located in said gas-conducting tube, a screw rotor which is fixed to said lower shaft part and which is shaped to force liquid upwardly through said liquid-conducting tube, said impeller also comprising blades which are located in the space between said adjacent ends and which are shaped to rotate said upwardly forced liquid in said space and to impel said rotating liquid away from said shaft in a direction substantially perpendicular to said shaft, said tank having a cover at the top thereof, said cover having a gas inlet and a gas outlet, said end-wall having through-and-through longitudinal bores which are located between said blades.

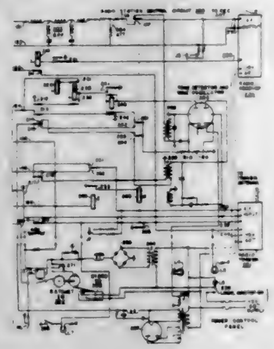
2,530,815

MOBILE RADIOTELEPHONE SYSTEM HAVING A SINGLE CHANNEL AND A SINGLE FREQUENCY

Robert P. Dimmer, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application February 2, 1949, Serial No. 74,134
16 Claims. (Cl. 250—6)





13. In a radio telephone system, a radio control station having a radio receiver and a radio transmitter, a first relay in said station connected to said receiver and operated in response to the receipt of an incoming radio frequency carrier received by said receiver, means controlled by the operation of said first relay for activating said transmitter to transmit an outgoing radio frequency carrier over the air, a second relay, a first circuit for operating said second relay closed responsive to the operation of said first relay, a second circuit closed by the operation of said second relay for maintaining said first relay operated after termination of said incoming carrier, means including a third relay in said control station operated in response to the receipt of a modulated release pulse of said incoming carrier, normally closed contacts included in said first circuit operated by the operation of said third relay for opening said first circuit to restore said second relay, the restoration of said second relay opening said second circuit to restore said first relay after termination of said modulated carrier pulse, and the restoration of said first relay controlling said transmitting means to remove said outgoing carrier from the air.

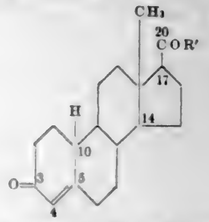
2,530,816

13-MONOMETHYL CYCLOPENTANOPOLYHYDROPHENANTHRENES AND PROCESS

Maximilian R. Ehrenstein, Philadelphia, Pa., assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania

Application November 16, 1946, Serial No. 710,313
3 Claims. (Cl. 260—397.3)

1. A 13-monomethyl - cyclopentanopolyhydrophenanthrene having the following structure:



where R′ is a member of the group consisting of alkyl groups of not in excess of ten carbon atoms.

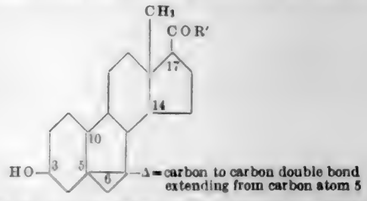
2,530,817

13-MONOMETHYL STEROIDS

Maximilian R. Ehrenstein, Philadelphia, Pa., assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania

Application May 19, 1948, Serial No. 28,034
2 Claims. (Cl. 260—397.4)

1. A 13-monomethyl - cyclopentanopolyhydrophenanthrene having the following structure:



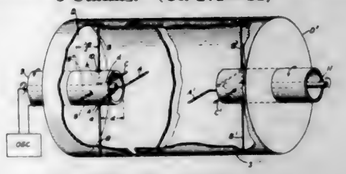
where R′ is a member of the group consisting of alkyl groups having not more than 10 carbon atoms, a benzyl group and a phenyl group.

2,530,818

VARIABLE PHASE SHIFTER FOR CIRCULARLY POLARIZED MICROWAVES

Arthur Gardner Fox, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 17, 1945, Serial No. 610,955
3 Claims. (Cl. 178—44)



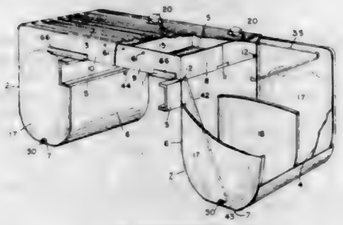
1. A phase shifter for microwaves comprising a pair of mutually perpendicular dipoles, spaced apart by 90 electrical degrees at the operating wavelength to radiate circularly polarized waves, a pair of mutually perpendicular dipoles spaced apart by 90 electrical degrees at the operating wavelength for receiving said waves, a conductive enclosure having a principal axis and extending therebetween for confining and guiding said circularly polarized waves, and means for rotating one pair about said axis and relative to the other pair, whereby the phase of the received waves may be adjusted a predetermined amount.

2,530,819

SADDLE TANK FOR MOTOR VEHICLES

Benson Hamlin, Niagara Falls, N. Y., assignor to Jolene Corporation, Berea, Ohio, a corporation of Ohio

Application May 27, 1947, Serial No. 750,779
9 Claims. (Cl. 280—5)



1. A saddle tank having a saddle portion and end tanks and comprising a top section and a bottom section, the top section comprising a single piece of sheet metal part of which is in the form of a top wall which extends entirely across the saddle portion and end tanks and has its outer end portions extending downwardly from its normal plane and providing a part of integral outboard walls of the end tanks, the sheet having its front and rear margins extending downwardly generally normal to the plane of the top wall and providing integral exterior end walls of the saddle portion, the bottom section comprising a single piece of sheet metal part of which is in the form of a bottom wall of the saddle portion which extends to the inboard planes of the end tanks and has downwardly extending portions generally normal to the plane of the bottom wall and providing integral inboard walls of the end tanks, and portions therebeyond toward the ends of the sheet providing the bottom walls and part of the outboard walls of the end tanks, the front and rear margins of the sheet extending upwardly from the bottom wall and forming integral internal end walls of the saddle portion, and being severed from the sheet along their line of intersection with the bottom wall partway inwardly from their ends, said severed portions extending fore and aft of the saddle portion and providing bulkheads of the saddle portion between the saddle portion and end tanks, the end portions of the sheets being secured together at the outboard walls, and headers closing the front and rear of each of the end tanks.

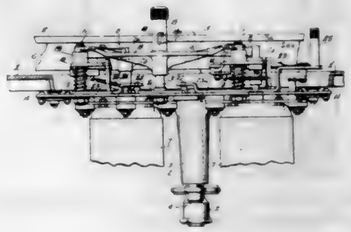
2,530,820

DUAL IDLER PHONOGRAPH DRIVE

John J. Hoehn and Arthur G. Zimmerman, Indianapolis, Ind., assignors to Radio Corporation of America, a corporation of Delaware

Original application July 31, 1940, Serial No. 348,860. Divided and this application January 29, 1944, Serial No. 520,152
5 Claims. (Cl. 74—190)

2. In phonographic apparatus including a turntable, mechanism for driving said turntable comprising a plurality of discrete motors, said motors being spaced from each other circumferentially about said turntable, a like plurality of friction idler wheels each associated with a separate one of said motors, said idler wheels being each movably mounted for movement into and out of power transmitting position between their respective motors and said turntable, and control means common to all of said idler wheels for simultaneously effecting movement of all said idler wheels into one or the other of said positions.



2,530,821

BULLETIN SHEET HOLDER AND SUPPORT

Calvin Glenn Hubbell, Rankin, Ill., assignor to C. Howard Hunt Pen Co., Camden, N. J., a corporation of New Jersey

Application August 20, 1945, Serial No. 611,615
1 Claim. (Cl. 40—11)

A bulletin sheet holder and support, comprising a body portion adapted to be secured to a supporting surface, a blade supporting member extending from the upper end of said body portion and overlying the main portion of the body in spaced relation therewith, an upwardly inclined flexible blade constructed of rubber-like material secured to the blade supporting member, the flexible blade extending across the space between the blade supporting member and main portion of the body, the free edge of the blade resting against the main portion of the body at a point below the level of the top of the blade supporting member and adapted to grip an article placed therebetween.

2,530,822

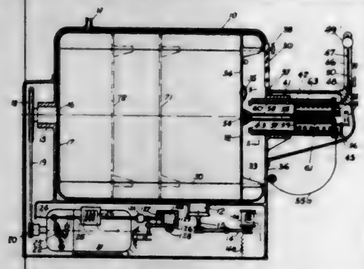
VARIABLE VOLUME WASHER

Leo M. Kahn, Island Park, N. Y.

Application March 24, 1945, Serial No. 584,605
7 Claims. (Cl. 68—24)

7. A washer of the character described comprising a shell, a cylinder mounted upon a horizontal axis within said shell means for rotating said cylinder at a slow speed for washing and at a high speed for extracting, a partition within said shell slidable along the axis thereof, and means for retarding the acceleration from slow speed to high speed, and means for moving said

partition to decrease the volume within said cylinder during said period of retarding, including



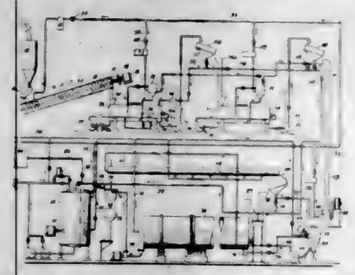
means to prevent operation at high speed until said volume has been decreased.

2,530,823

METHOD AND APPARATUS FOR SEPARATING STARCH FROM GLUTEN

Acton Keith Kilander, Gibralter, and Lou Buck Edsall, Wyandotte, Mich., assignors, by mesne assignments, to Trenton Chemical Company, Trenton, Mich., a corporation of Michigan

Application April 8, 1944, Serial No. 530,228
19 Claims. (Cl. 127—25)



1. The process which comprises making a dough out of ground grain and water with at least part of the bran removed, agitating the dough with enough added water to make a mixture of about four pounds of water to one pound of ground grain present, so as to separate the starch of the grain as a fine suspension carrying gluten aggregates from the grain, separating screening that first fine suspension from the aggregates, reagitating the separated aggregates with water and screening more fine starch suspension from the aggregates, returning said more fine suspension to serve as water for the first agitation, collecting the gluten, and carrying off the starch in the first fine suspension.

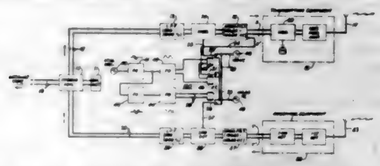
2,530,824

SECRET CARRIER SIGNALING METHOD AND SYSTEM

Kenneth L. King, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 20, 1946, Serial No. 691,853
10 Claims. (Cl. 179—1.5)

1. In a single sideband signaling system including a source of message waves and sources of carrier frequency waves, means for attaining secrecy of transmission which comprises, means for modulating a carrier wave by a message wave comprising a band of frequencies to produce upper and lower sidebands, means for alternately changing the frequency of the carrier wave by such an amount that the upper sideband produced when the carrier wave has one of its two frequencies occupies substantially the same frequency band as is occupied by the lower sideband produced when the carrier wave has the other of its two frequencies, a common selecting means selective only of wave frequencies in said last-mentioned band, and means for adding to the selected outgoing wave an unmodulated wave of



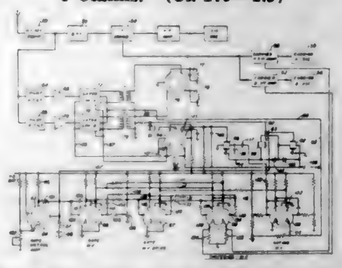
the same frequency as that one of the two frequencies possessed by the carrier wave concurrently not being modulated, so that the transmitted wave comprises a sideband product of modulation which, with respect to the added unmodulated wave, alternately changes from the frequency position of an upper sideband to a lower sideband and vice versa, and in which the band of message frequencies is inverted with respect to said added unmodulated wave.

2,530,825

SYSTEM FOR SYNCHRONIZING THE SUPPLYING OF DEMODULATION CARRIER CURRENTS

Kenneth L. King, Scarsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 5, 1948, Serial No. 42,615
9 Claims. (Cl. 179—1.5)



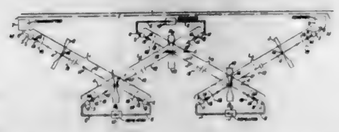
1. In a single sideband signaling system wherein the received wave comprises an unmodulated false carrier wave component which alternately assumes one of two diverse frequency values, and a sideband product of modulation which is derived by the modulation of a message signal wave with a carrier frequency wave the frequency of which alternately assumes one of two diverse frequency values, a system for demodulating said sideband product of modulation which comprises electric network means to separate said false carrier wave component from said sideband product of modulation, a source of carrier frequency waves of two different frequencies which are substantially equal to the frequencies of the carrier wave from which said sideband product was derived, means for modulating said carrier wave of either frequency with said received sideband product of modulation, means for continuously impressing said sideband product of modulation upon said modulatory means, means for delivering said modulating carrier waves of different frequencies in alternation to said modulatory means, means for deriving from said received false carrier wave component an electromotive force the polarity of which with respect to an arbitrary reference is determined by the relative amounts of each of said diverse frequencies which are received during a predetermined interval, and means responsive to said electromotive force for regulating the time of alternation in the delivery of said two different frequency modulating carrier waves to said modulation means.

2,530,826

RADIO RELAY SYSTEM

Winston E. Kock, Middletown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 3, 1948, Serial No. 5,952
17 Claims. (Cl. 250—15)



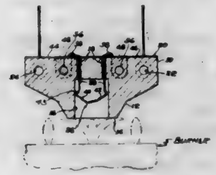
1. A radio relay station comprising a repeater connected between a receiving antenna and a transmitting antenna and a radio lens positioned between said antennas and traversed in common by waves employed by said antennas.

2,530,827

ELECTRIC IGNITER FOR GASEOUS FUEL

Stanley J. Lakota, Pittsburgh, and Theodore E. Rudiselle, Greensburg, Pa., assignors to Robertshaw-Fulton Controls Company, a corporation of Delaware

Application May 1, 1945, Serial No. 591,388
12 Claims. (Cl. 219—32)



1. An electric ignition device for a flowing fuel comprising a housing having an open-ended chamber therein, and a resistance wire within said chamber including an igniter portion having a single pair of oppositely disposed turns located adjacent said open end and extending in substantially the same plane normal to the axis of said chamber.

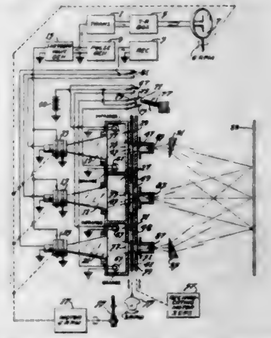
2,530,828

RADAR SYSTEM FOR INDICATING MOVING OBJECTS

Humboldt W. Leverenz, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 29, 1946, Serial No. 657,971
12 Claims. (Cl. 343—9)

11. The method of discriminating between fixed and moving objects in a display which comprises a sequence of respectively current images, comprising the steps of storing energy representing each current image, exhibiting each current image in visible form, rendering each of said stored images visible contemporaneously with a subsequent current image, and displaying said



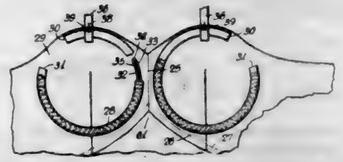
visible stored image and the then current image alternately.

2,530,829

LADY'S GARMENT

Anna Licht, New York, N. Y.

Application February 11, 1947, Serial No. 727,816
2 Claims. (Cl. 2—42)



1. A garment comprising a brassière element having breast cups, sheaths about the rims of the respective breast cups, each extending through an arc in the order of 300 degrees, leaving clear the region nearest the armpit, each sheath having a closed end and an open end, arcuate braces, each extending through an angle in the order of 180 degrees, whereby the braces may be positioned at will either along the lower parts of the respective sheaths for a strap type garment or from the upper parts of the respective sheaths along the inner or adjacent portions of the sheaths for a strapless type of garment.

2,530,830

NOTCHING DEVICE

Theodore Loew, Brooklyn, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York

Application September 28, 1949, Serial No. 118,320
11 Claims. (Cl. 223—2)

1. In an apparatus for notching a run-and-turned fabric part after running but before turning, the combination of a stationary base; a pointed flat cutting member stationarily mounted on said base vertically spaced from the same; a supporting member adapted to hold and locate said fabric part by means of the running stitch in the neighborhood of the edge portion to be notched; and pivoting means turnably attaching said supporting member to said base so that said supporting member is turnable past said pointed flat cutting member about an axis being normal to the plane of said pointed flat cutting

member, thus enabling turning of said supporting member with said fabric part held by the same towards said pointed flat cutting member so as to first cause the point of said pointed flat cutting member to pierce the fabric part close to the running stitch between said stitch and the edge portion to be notched and then to cause the cutting edge of said pointed flat cutting member to cut the fabric from said piercing point to said edge portion.

2,530,831

ALKYLENE-BRIDGED 5,6-DIHYDROXY-QUINOLINES

William A. Lott, Maplewood, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application April 17, 1948, Serial No. 21,739
6 Claims. (Cl. 260—286)

1. A member of the class consisting of: 8-(alkylaminoalkyl-amino)-quinolines having in the 5,6-position the group —O-(divalent alkyl)-O-; and acid-addition salts thereof.

2,530,832

KEY-FRAME FOR KEY-OPERATED MUSICAL INSTRUMENTS

Lloyd M. Martin, San Francisco, Calif.

Application August 23, 1944, Serial No. 550,730
18 Claims. (Cl. 84—434)

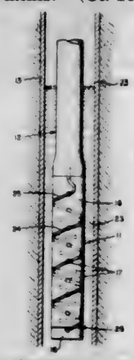
1. In a piano or organ, a key-frame including a rigid plate extending longitudinally of the keyboard; a balance rail secured to the upper side thereof; said balance rail having integral fulcrum posts extending upwardly therefrom, with open sockets in their upper ends, the horizontal axes whereof extend longitudinally with the balance rail, for pivotally supporting the keys, said fulcrum posts having slots between the same to receive the bodies of the keys when the keys are pivotally supported in their sockets.

2,530,833

GUN PERFORATOR

Philip W. Martin, Huntington Park, Calif., assignor to McCullough Tool Company, Vernon, Calif., a corporation of Nevada

Application September 14, 1944, Serial No. 554,105
31 Claims. (Cl. 164—0.5)



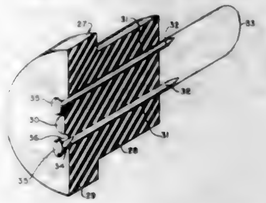
1. A method of igniting a propellant charge behind a projectile in a gun barrel comprising: producing a pressure in the outer end of the barrel and employing said pressure to drive the projectile rearwardly in the barrel to explode said charge.

2,530,834

ELECTRICALLY FIRED PERFORATING GUN

Philip W. Martin, Huntington Park, Calif., assignor to McCullough Tool Company, Vernon, Calif., a corporation of Nevada

Application October 19, 1945, Serial No. 623,301
22 Claims. (Cl. 164—0.5)



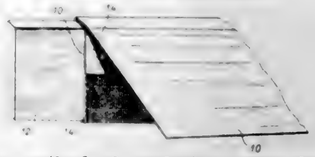
1. In a gun of the character described, wherein a propelling charge is fired by driving the projectile rearwardly so as to compress the propelling charge, the combination of: a gun structure having a gun barrel and a propelling charge chamber communicating with its rear end; a propelling charge in said chamber; a projectile in said barrel spaced from the outer end of said barrel; a wall closing the outer end of said barrel to prevent entry thereinto of external pressure; a firing charge between said projectile and said wall, said wall comprising a body of dielectric material, said body having spaced openings therethrough for pins; a loop filament in the space between said wall and said projectile, the end portions of said filament being extended into said openings; and pins inserted into said openings to hold said end portions of said filament therein.

2,530,835

METHOD OF MAKING INSULATING COVERS FOR BUS BARS

George J. Muller, Philadelphia, Pa., assignor to Taylor Fibre Co., Norristown, Pa., a corporation of Delaware

Original application October 2, 1945, Serial No. 619,782. Divided and this application July 29, 1947, Serial No. 764,361
3 Claims. (Cl. 154—2.27)



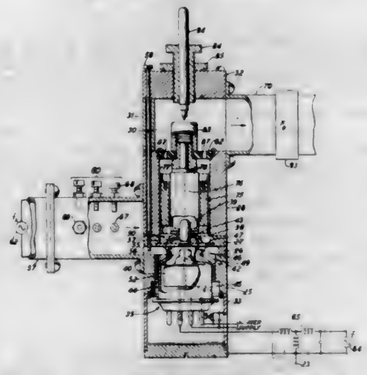
1. The method of producing covers for conductor bars having a metalized lining for intimate contact with the surface thereof, comprising providing a mandrel whose cross-sectional contour and area is the same as the contour and cross-sectional area of the bars to be covered, then winding a turn of foraminous sheet conducting metal on the mandrel to form the lining, then winding a plurality of turns of sheet insulating material on the foraminous sheet conducting metal to form a cover of the desired wall thickness and density, then pressing the covering about the mandrel while in a non-expansible space with sufficient pressure to press the foraminous sheet metal into intimate contact with the mandrel to form the metalized lining and to force insulating material into the foramina in the sheet conducting metal to anchor the metalized lining in the insulating material, and then removing the cover from the mandrel.

2,530,836

GROUNDED GRID MICROWAVE MODULATOR

William W. Mumford, Atlantic Highlands, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 1, 1949, Serial No. 102,492
9 Claims. (Cl. 332—63)



1. In combination, a space discharge device having a grid septum and cathode and anode electrodes on opposite sides of the grid septum, a pair of conductively bounded space resonators having the said grid septum in a common boundary portion thereof and each enclosing one of said electrodes, a coaxial coupling circuit comprising a tubular outer conductor one end of which forms a part of the boundary of one of said space resonators and an inner conductor coupled to said one resonator, the separation between said coaxial conductors being constricted adjacent said one resonator over a length of substantially a quarter wavelength or odd multiple thereof at the resonance frequency of said one space resonator.

2,530,837

LUBRICANT COMPOSITION COMPOSED OF HIGH-TITRE SOAP, BORAX, AND AN INORGANIC COMPOUND

Gilbert H. Orozco, Euclid, and John A. Henricks, Lakewood, Ohio, assignors to Gilron Products Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Original application August 2, 1943, Serial No. 497,117. Divided and this application July 31, 1948, Serial No. 41,902
5 Claims. (Cl. 252—18)

1. A water soluble lubricating composition for use in the formation of metal articles consisting essentially of at least about 15% of an organic lubricating material selected from the group consisting of a water soluble high titre soap and a mixture of water soluble high titre soap and organic water soluble aliphatic, polyhydric alcohol having less than four hydroxy groups, and at least two lubricating, water liberating, hydrated, glass forming, water soluble inorganic materials selected from the group consisting of metal phosphates, metal carbonates, metal silicates, metal borates and boric acid, one of said inorganic materials being borax and present in an amount at least about 40% of the total composition and greater than the amount of any other inorganic material present in the composition, the amount of the total inorganic material being greater than the amount of the organic lubricating material, the melting point of the organic lubricating material being less than that of any of the inorganic materials, and the inorganic materials each having a melting point below 1000° C. and each having a melting point different from each other each inorganic material being present in an amount sufficient to provide and maintain lubrication throughout a material range of temperature different from each other, and the organic material being present in an amount sufficient to provide and maintain initial lubrication up to a temperature at which the inorganic material of lowest melting point becomes operative, whereby the composition will provide progressive and stepwise lubrication of the metal during the forming operation.

2,530,838

WIRE, ROD, AND SHEET METAL DRAWING LUBRICANT OF SYNTHETIC WAX, BORATE, AND ORGANIC BINDER

Gilbert H. Orozco, Euclid, and Richard F. Roy, Cleveland, Ohio, assignors to Gilron Products Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application August 11, 1949, Serial No. 109,825
19 Claims. (Cl. 252—25)

1. A coating material for admixture with water for coating a piece of unformed metal stock and the like and forming thereon a self-adherent, homogeneous, lubricating and protecting film comprising the following ingredients by weight, dry:

	Parts
Component A:	
A synthetic wax having a melting point of at least about 95° C	10–40
Component B:	
A boron containing material selected from the class consisting of metal borates, borate ores, mixtures of the foregoing, and any of the foregoing admixed with a minor amount of a material selected from the group consisting of colloidal clay, water-soluble silicates, and water-soluble carbonates	85–35
Component C:	
A water-soluble organic lubricating binder which is inert with respect to other material in the composition and has a melting point of at least about 10° C. and an initial distillation point of at least about 200° C	5–25

2,530,839

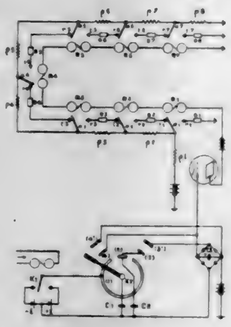
APPARATUS FOR THE MEASUREMENT OF THE INDEX NUMBER OF TELEGRAPH SIGNALS

Joseph Pernic and Robert Leroy, Paris, France, assignors to Compagnie Generale d'Electricite, Paris, France, a corporation of France

Application August 4, 1947, Serial No. 765,850
In France May 13, 1946
1 Claim. (Cl. 178—69)

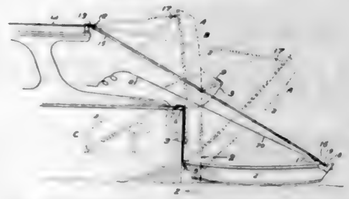
In a device for absolute value measurement of the restricted index number of a telegraphic

modulation, a source of signals, a recording relay having a coil connected to said source and having contacts connected, respectively, to two direct current sources of different polarities, a rotary distributor making one revolution during the duration of a signal and having a long conductor sector connected to the armature of said recording relay, a brush connected by means of a first condenser to the common point between said two current sources, a short conductor sector on said distributor connected by means of a second condenser to said common point, a pair of contacts on said distributor arranged to be short-circuited at the moment when said brush engages said long sector, one of the contacts of said pair being connected to said short sector and the other to one of the peaks of a rectifier bridge the opposite peak of which is connected to the common point between said two current sources, a second pair of contacts on said distributor arranged to be short-circuited just before said brush leaves said long sector and being connected, respectively, to the two other peaks of the bridge, a third condenser connecting the last-mentioned two peaks of said bridge, another current source having one of its terminals connected to one of said two last-mentioned peaks and having its other terminal grounded, a three-element vacuum tube



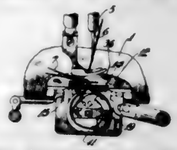
having its grid connected to the other of the last two mentioned peaks of said bridge, a chain of relays having their windings connected in series in the plate circuit of said tube, the number of relays in said chain being one less than the number of the different restricted indices susceptible of being recorded in absolute value, a closed circuit comprising a current source and a chain of resistances arranged in series, equal in number to that of the different indices susceptible of being registered in absolute value, the armature of each relay of the above mentioned chain of relays being connected to the armature of the following relay of the chain by means of one of said resistances and the two end resistances of the chain being connected, respectively, to one of the two poles of the current source of said closed circuit, a chain of indicator devices equal in number to that of the restricted indices susceptible of being recorded in absolute value, the first device being connected between a pole of the source and the rest contact of the first relay of said chain, each of the following devices being connected between the working contact of one relay and the rest contact of the following relay, and the last device being connected between the working contact of the last relay and said pole of said source.

2,530,840
HOISTING AND LAUNCHING MEANS FOR BOATS
George B. Post, Great Neck, N. Y.
Application February 24, 1949, Serial No. 78,063
2 Claims. (Cl. 9—39)



1. In combination, a vessel having an aft deck and transom and a dinghy, a pair of flexible straps spaced athwartship the vessel, each being attached at one end thereof to the vessel on the aft deck and leading over the transom of the vessel and being attached at the other ends thereof to the transom of the dinghy at points athwartship thereof, the length of the straps being such that the transom of the dinghy is held close to the transom of the vessel without slack in said straps, means attached to the vessel and the dinghy for hoisting the latter up over the aft deck of the vessel with the transom of the vessel acting as a fulcrum.

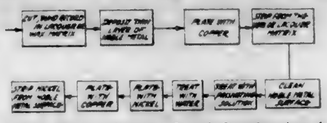
2,530,841
DEVICE FOR INDICATING VARIATIONS IN THREAD TENSION IN SEWING MACHINES
Leo Roseman, Newark, N. J.
Application October 31, 1947, Serial No. 783,251
27 Claims. (Cl. 112—218)



1. The combination with a sewing machine in which during the sewing operation a needle thread is passed through the work and formed into a loop around a bottom thread beneath the work and the portions of said threads at said loop normally follow a predetermined path and are drawn out of said path upon an excess in the tension on the bottom thread relative to the tension of the top thread, of means actuated by said portions of said threads when they are drawn out of said normal path by excessive tension on said bottom thread for performing an operation upon occurrence of said change in tension.

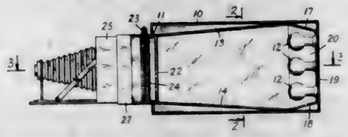
2,530,842
MANUFACTURE OF METAL TO METAL DUPLICATIONS
Ernest P. Ruggieri, North Arlington, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 12, 1949, Serial No. 87,062
5 Claims. (Cl. 204—5)

1. In a process of making master molds used in the manufacture of disc sound records, the steps of passivating a metal replica of an originally recorded sound groove by treating said replica with an aqueous solution of a strong oxidizing agent from the class consisting of alkali metal dichromates and permanganates, said metal having a surface of one of the class consisting of gold, silver and platinum, rinsing said passivated surface with water at temperatures of



35° to 100° F. for from about 3 minutes to about 5 seconds, electrodepositing a coating of nickel on said passivated surface and then stripping said nickel coating from said passivated surface.

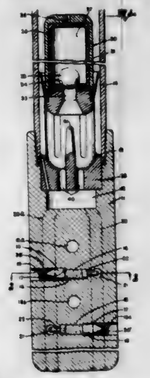
2,530,843
PHOTOGRAPHIC ENLARGER
Clarence C. Smith, Flushing, N. Y., assignor of one-half to Eugene F. Hartley, Onancock, Va.
Application January 3, 1948, Serial No. 423
1 Claim. (Cl. 88—24)



In photographic enlarging apparatus, the combination of an enclosed lamp housing having a rectangular opening at one end thereof, a subject carrier having a rectangular opening therein mounted with its opening substantially in registry with the opening in the lamp housing, an enlarging lens mounted to receive light transmitted through said subject carrier, electric lamp means disposed in said housing in the end thereof opposite said opening therein, a plurality of straight, diverging, specular reflecting surfaces disposed around said lamp means for directing light from the sides and rear of said lamp means forwardly in the direction of said housing opening, said lamp means and said diverging reflecting surfaces cooperating to form a substantially rectangular light panel of greater area than said carrier, and means forming straight specular reflecting surfaces converging from said light panel to said subject carrier and disposed so as to supplement the illumination of those parts of a subject in said carrier that are not uniformly illuminated by direct rays from said light panel which pass through said enlarging lens, by directing to said parts of the subject converging light rays which pass through the lens, said reflecting surfaces forming a passage of substantially rectangular cross-section extending from said light panel to said carrier, and the length of said passage being at least as great as the maximum dimension of said light panel, whereby all parts of a subject in said carrier will be traversed by light rays originating at said light panel and passing through said lens.

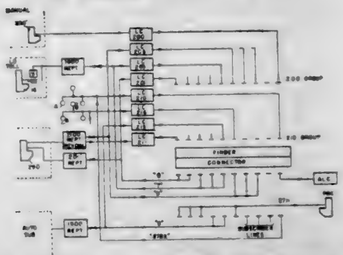
2,530,844
GUN PERFORATOR
James O. Tow, Huntington Park, Calif., assignor to McCullough Tool Company, Los Angeles, Calif., a corporation of Nevada
Application September 9, 1946, Serial No. 695,768
6 Claims. (Cl. 164—0.5)

1. In a well perforating gun, the combination of: a gun body adapted to be lowered into a well, said body having a bore to receive a projectile and wall means forming a chamber at the rear end of the projectile to receive a propellant comprising an explosive and ignitable composition, said gun body having a cavity adjacent at least a part of said wall means and externally of said chamber; and means for introducing molten



metal into said cavity so that heat therefrom will be conducted through said wall means to cause ignition of said propellant.

2,530,845
RELAY AUTOMATIC TELEPHONE SYSTEM
John H. Voss and Roy W. Jones, Rochester, N. Y., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application December 31, 1945, Serial No. 632,444. Divided and this application November 19, 1948, Serial No. 60,843
9 Claims. (Cl. 179—27)



1. In an impulse repeating arrangement, a line relay and a line over which said line relay is released and reoperated intermittently in response to incoming impulses received over said line, a pulse relay, an impulse repeating relay, a circuit for operating and releasing said pulse relay intermittently responsive to said impulses, from back contacts on said impulse repeating relay, a circuit for releasing and reoperating said impulse repeating relay intermittently responsive to said impulses, from make contacts on both said line and pulse relays, and contacts on said impulse repeating relay for repeating said impulses.

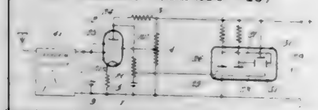
2,530,846
MODIFYING SECTION FOR STORM WINDOW FRAMES
Clifford L. Webster, Youngstown, Ohio, assignor to Aluminum Air Seal Manufacturing Company, Youngstown, Ohio, a corporation of Ohio
Application January 14, 1949, Serial No. 70,907
4 Claims. (Cl. 189—75)

1. A storm window comprising a rectangular shaped frame having at the sides and in the lower rear portion thereof vertical guide channels to

receive a lower sash, and said frame having a top transverse section including a pair of inwardly extending oppositely disposed spaced flanges forming a channel to receive the upper marginal portion of a sash positioned in the front upper portion of the frame, and a transversely extending modifying section attached to said top transverse section at the rear side thereof and comprising a pair of spaced oppositely disposed inwardly extending flanges forming a channel for the re-

ception of the upper end portion of a third sash, the foremost of said last mentioned pair of flanges having a forwardly and downwardly extending inclined portion overlying a sash supported in the guide channels in the lower rear portion of the frame and forming a guide for engaging and directing the upper end portion of said last mentioned sash when the latter is moved vertically upwardly thereagainst into the channel of said modifying section.

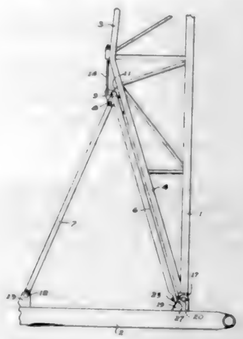
2,530,847
TUNING INDICATOR SYSTEM
Hendrikus Theodorus Jozef Wiegerinck and Johan Hendrik van Wageningen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 12, 1947, Serial No. 728,060
In the Netherlands July 15, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 15, 1964
10 Claims. (Cl. 250—40)



1. A tuning indicator circuit arrangement for indicating variations in frequency about a given frequency value, comprising frequency responsive means for producing a first direct voltage having amplitude and sign variations about a given amplitude value proportional to variations of said frequency about the said given frequency value, a discharge tube having in the order named a cathode, a screen grid and an anode, and means to vary the distribution of current between said screen grid and said anode, said means comprising a first control grid interposed between said cathode and said screen grid, a second control grid interposed between said screen grid and said anode, means to apply said first direct voltage at values thereof below said given value to one of said control grids, and means to apply a direct voltage proportional to said first direct voltage at values thereof above said given value to the other of said control grids.

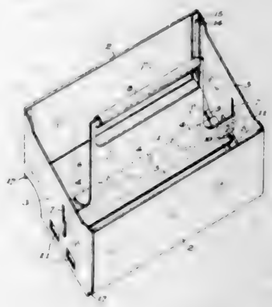
2,530,848
MAST STRUCTURE
Homer J. Woolslayer, Erwin A. Campbell, and Cecil Jenkins, Tulsa, Okla., assignors, by mesne assignments, to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1945, Serial No. 602,602
8 Claims. (Cl. 189—15)

1. A mast structure comprising a base, a mast thereon, a horizontal sleeve rigidly mounted on the lower end of the mast, a pivot pin extending through said sleeve and detachably connected to the base, a gin pole on the base having upwardly converging sides with one of them disposed adjacent the mast, means detachably connecting the lower end of the opposite side of the gin pole



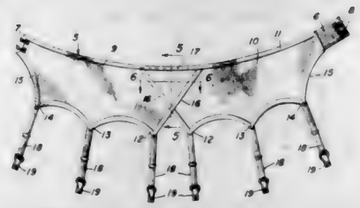
to said base, and means mounted on said sleeve for rotation around its axis and detachably connected to the lower end of said mast side of the gin pole, whereby the mast and gin pole are independently connected to the base on a common pivotal axis.

2,530,849
BEVERAGE CASE
Frank A. Wyatt, Indiana, and Charles F. Slater, Pittsburgh, Pa., assignors to Ben F. Louis, Indiana, Pa.
Application May 22, 1947, Serial No. 749,740
4 Claims. (Cl. 224—48)



1. A knock-down container comprising a bottom, a pair of sides and a pair of ends, the lower edges of said ends being bent upwardly to support said bottom, said bottom having an upwardly projecting lug and said ends each having a pair of inwardly projecting members adapted to receive said lug and hold the bottom against lateral and vertical movement, the end portions of each of said pairs being bent inwardly, the bent portions of one of the pairs each being provided with a vertical slot, the bent portions of the other pair being greater in length than said slot and having upper and lower flange sections whereby said sides and ends can be jointed together by inserting said upper flange sections into said vertical slots and sliding them upwardly a sufficient amount to permit said lower flange sections to be inserted therein.

2,530,850
HOSE SUPPORTER
Lela F. Atchley, Oklahoma City, Okla.
Application August 18, 1949, Serial No. 110,925
1 Claim. (Cl. 2—306)

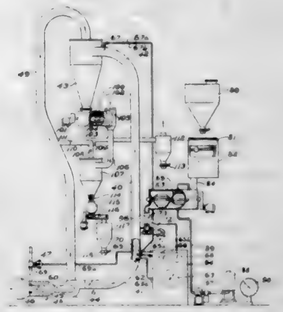


A hose supporter comprising a wide inelastic fabric belt adapted to encircle the body entirely below the waist line and having means to separably connect the ends thereof at the back of the wearer, said belt comprising two substantially similar sections having adjacent ends partially overlapped at the front of the band and stitched together at the top but otherwise free of connection with each other, and front, side and rear depending elastic straps attached to each section and having hose-engaging clasps at their lower ends, said adjacent ends of the sections having oppositely inclined downwardly diverging end edges and being provided with a scalloped lower edge providing front, rear and side scallops, each scallop having one of said depending elastic straps attached thereto.

2,530,851
RUG NEEDLE
Henry L. Biggs, Phoenix, Ariz., assignor of one-half to Grace B. Olson, Council Bluffs, Iowa
Application July 15, 1948, Serial No. 38,849
4 Claims. (Cl. 66—118)

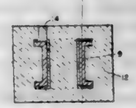
1. A crochet needle comprising a shank of resilient material shaped to form a loop at its rear end and having a pair of front end portions tensionally held separated from each other, a crochet hook on one of said front end portions, and a catch on the other of said front end portions and adapted for interlocking engagement with the first named front end portion upon movement of said pair of end portions toward each other to lock the same from separating movement and to hold the front end of the loop closed.

2,530,852
PRODUCTION OF DRY POWDERY THERMOPLASTIC COMPOSITIONS
Willard F. Bixby, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 4, 1947, Serial No. 772,133
3 Claims. (Cl. 260—34.2)



1. In a method of producing a free-flowing pulverulent resinous composition comprising a free-flowing pulverulent polymer of a monomeric material which contains a single $CH_2=C<$ group and undergoes addition polymerization to form a high molecular weight linear polymer, and a plasticizer therefor, the steps which comprise heating a body of gas substantially inert to the polymer and plasticizer to 175 to 340° F., moving said heated gas in a well-defined, vertically-disposed path at a velocity not in excess of 100 ft./sec. and not less than that which is required to support therein particles of said polymer ranging in size from about 10 to about 300 mesh and to permit movement of said particles along said path while maintaining a contact time between said polymer and said gas of less than 5 seconds, dispersing in said moving gas at one location in said path a moist homogeneous mixture of said pulverulent polymer and said plasticizer in such a manner as to cause said mixture to be transported along said pathway solely by the buoyant effects of said moving gas and collecting said polymer plasticizer mixture at another location in said path remote from the first said location.

2,530,853
METHOD OF CASTING
Joseph B. Brennan, Bratenahl, Ohio
Application June 7, 1945, Serial No. 598,080
2 Claims. (Cl. 22—203)



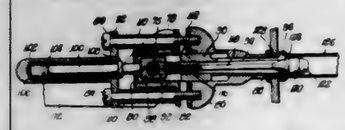
1. The method of forming a composite metallic structure which comprises providing a model consisting of a low melting point metal and a higher melting point metal with a thin third metal coating adhered to the latter and disposed between the two first-named metals, encasing said model in a compacted but porous, gas pervious mold body of a finely divided refractory material, heating said mold sufficiently to melt said low melting point metal, draining the melted metal

from the mold body, and then filling said mold with a fourth metal to replace said low melting point metal and to adhere to said thin coating, heated gas within said mold body escaping through the pores of said mold body.

2,530,854
CASTING APPARATUS
Joseph B. Brennan, Cleveland, Ohio
Application March 19, 1946, Serial No. 655,511
2 Claims. (Cl. 22—57.2)

1. In apparatus for making elongated metal articles, the combination of an elongated die formed with a passage therethrough including contiguous portions of tapered and uniform cross-section, the small end of such tapered portion joining such uniform portion between the ends of said die, means connected to said die operative to force molten metal through such passage from the large end of such tapered portion, cooling means on said die surrounding such passage having a heat transfer capacity such that a partially solidified skin is formed on the metal as it flows through the uniform portion of such passage whereby the pressure of the molten metal core retains the skin in engagement with the wall of such passage and that the entire cross-section of the metal is solidified prior to its emergence from said die, such tapered portion being of taper corresponding with the rate of shrink of the metal as it is forced through said die and cooled thereby.

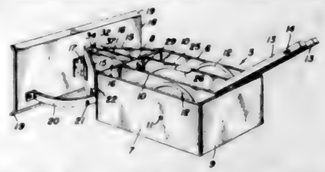
2,530,855
METHOD OF TUBE SETTING
Kenly C. Bugg and Harry L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg
Application March 23, 1945, Serial No. 584,406
5 Claims. (Cl. 29—157.4)



4. Those steps in the method of attaching a tubular member to a perforated member which comprise inserting the tubular member through a perforation, deforming the tubular member adjacent one side of the perforated member, utilizing the deformation as positioning means for a tool to form the tube with fastening means on the opposite side of the perforated member from the deformation, and drawing the deformation and fastening means toward each other into tight engagement with the perforated member.

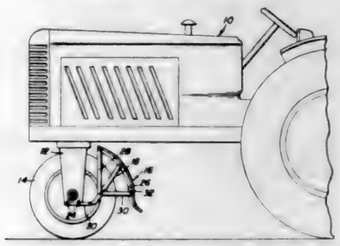
2,530,856
SNOW PLOW
Horace D. Callahan, Hobart, Ind.
Application January 22, 1948, Serial No. 3,745
4 Claims. (Cl. 37—53)

1. A snow plow of the class described comprising a portable truck, said truck being of box-like form and including a rectangular frame having longitudinal side members and connecting transverse end members, together with central longitudinal members between the end members and side members, a V-shaped adapter on the forward portion of said frame including spaced parallel coacting members, a latch-lever having an end portion pivoted between the last named members, a shank portion located between the second named longitudinal members of the frame and



terminating in a hand grip, a scraper blade hingedly mounted for swinging on the vertex portion of said V-shaped adapter, said scraper blade being provided with a semi-circular notched strap forming a rack bar, said latch-lever being selectively engageable with the notches in said rack bar, supporting wheels for said frame, and handle bars connected with said frame.

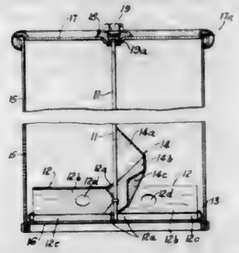
2,530,857
FRONT-WHEEL MUDGUARD ATTACHMENT FOR TRACTORS
Dick A. Campbell, Tama, Iowa
Application July 1, 1949, Serial No. 102,645
3 Claims. (Cl. 280—152)



1. In a tractor, the combination of an upright steering and wheel supporting post having a set of apertures provided in the lower end thereof, a pair of front wheels mounted at opposite sides of said post adjacent the lower end of the latter, and a mud guard attachment comprising an arm provided in one end portion thereof with fastening elements receivable in said apertures whereby said arm is secured to the lower end of said post, said arm extending upwardly and rearwardly from the post between said wheels, an arcuate rib secured to the remaining end of said arm and extending forwardly and downwardly therefrom in a plane intermediate said wheels, and an arcuate guard panel mounted on said rib and projecting to both sides thereof whereby side portions of said panel are disposed in spaced adjacent relation to the periphery of said wheels.

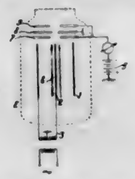
2,530,858
AGITATOR
Henry L. Cerniak, Chicago, Ill., assignor to National Steel Container Corporation, Chicago, Ill., a corporation of Illinois
Application September 30, 1947, Serial No. 777,050
6 Claims. (Cl. 259—108)

1. An agitator for use in drums and the like comprising a rotatable shaft, a plurality of agitator blades secured to and extending outwardly from said shaft adjacent one end thereof, and a bearing ring disposed peripherally with respect to said blades and secured to the extremities thereof and adapted to fit freely within a



drum to substantially center the agitator therein, said bearing ring being of substantially U-shaped cross-section with convex surfaces thereof facing both outwardly and downwardly for contact with both the inner side and bottom wall surfaces of the drum.

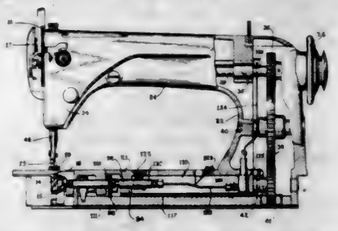
2,530,859
ION GENERATORS
Daniel Charles, Paris, France, assignor to Compagnie Generale de T. S. F., a corporation of France
Application June 17, 1947, Serial No. 755,036
In France June 17, 1946
7 Claims. (Cl. 250—84)



1. In an arrangement for the generation of ions in an enclosure of low gas pressure constituting the enclosure of utilization of the ions, comprising two electrodes disposed in said enclosure at least one of which is an electron emitter, a source of very high frequency connected across said electrodes for applying an alternating electric field between them, and means for collecting the ions, all of said means being disposed in the same enclosure.

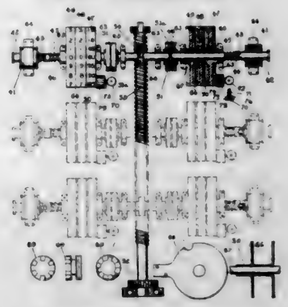
2,530,860
SEWING MACHINE
Norman V. Christensen and Charles F. Rubel, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 4, 1946, Serial No. 694,688
6 Claims. (Cl. 112—256)

1. In a lockstitch machine, a rotary hook having a bobbin carrier receiving raceway, a rotary hook actuating shaft, a reservoir, lubricant feed connections from the reservoir to the raceway including a helical conduit extending axially through said shaft in the direction of lubricant flow of opposite hand to the direction of rotation of the shaft and hook, a lubricant flow restriction through which lubricant is drawn from the reservoir and impelled through said conduit, and means independently of said restriction and operable at will under the control of the operator to permit a free flow of sufficient lubricant



drawn from the reservoir through said conduit to flush out the latter and said raceway.

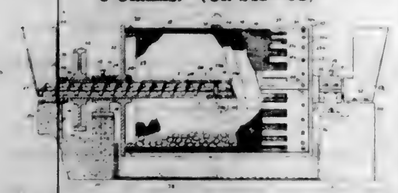
2,530,861
SELECTIVE PASSENGER REGISTRATION METER FOR TAXICABS
Ralph Monroe Coleman, Caleb H. La Mar, and Hazard N. Robertson, El Paso, Tex.
Application September 11, 1946, Serial No. 696,132
1 Claim. (Cl. 235—30)



In a fare registering mechanism for a vehicle, having a plurality of seats and, an electrical switch under each seat adapted to be closed by the weight of an occupant in a respective seat, the improvement comprising a main shaft, means connected to the vehicle for driving said main shaft during travel of the vehicle, worm gear means on said main shaft, a plurality of cross shafts extending at right angles to said main shaft, gearing means between each said cross shaft and said worm gear means, a driving clutch member terminating the end of each said cross shaft, a fare registering unit for each of said seats, respectively, support means mounting each said unit in axial alignment with each cross shaft, respectively, a driven shaft at each side of a cross shaft, means slidably keying each said driven shaft through each respective fare registering unit for driving the same, a cooperating driven clutch member on one end of each driven shaft adapted to engage a respective driving clutch member on each cross shaft, an anti-friction unit on the opposite end of each driven shaft, spring means between each said anti-friction unit and each said support means to bias the respective driven shaft and driven clutch member thereon away from its respective driving clutch member, a solenoid means adapted to engage each anti-friction unit, respectively, electrical means connecting said seat switches to said respective solenoid means whereby upon a seat being occupied, the weight of the occupant will move said switch to a circuit closing position for energizing the respective solenoid means causing

the same to move a driven shaft into engagement axially, thereby forcing the respective driving and driven clutch members together for actuating a fare registering unit in proportion to the distance travelled by the occupant during travel of vehicle.

2,530,862
SCREENING BALL MILL
Franklin M. Cornell, Brooklyn, N. Y.
Application May 8, 1945, Serial No. 592,672
3 Claims. (Cl. 241—91)



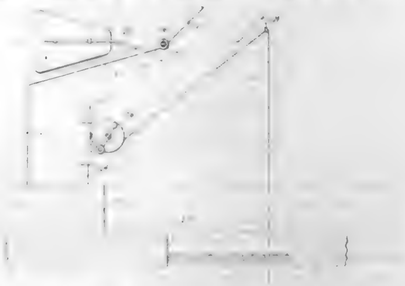
1. In a ball mill, a drum having heads with annular flanges formed integral therewith and extending toward each other, a hollow shaft supporting said heads in spaced relation and having apertures a series of radial holes formed therein communicating with the interior thereof and the interior of said drum between said flanges, a plurality of radial dowels carried on said annular flanges, a plurality of removable curved wall sections having dowel holes formed therein for cooperating with said dowel pins, other holes formed in said sections through which securing means may pass to engage said flanges, said wall sections carrying screens, bearings supporting said shaft, a material receptacle positioned on at least one end of said shaft and having an opening formed therein through which material may be delivered to the hollow interior of said shaft, means in said hollow interior for urging said material toward said apertures, a rod or hammer extending across the top of said drum, and lugs carried on said wall sections in a path to repetitively raise and drop said hammer.

2,530,863
SNAPPER ATTACHMENT FOR WRENCH HANDLES
Rufus Craig, Hobbs, N. Mex.
Application September 15, 1947, Serial No. 774,100
2 Claims. (Cl. 81—52.3)

1. In combination with a wrench having an elongated handle and a head pivoted at one end thereof, a snapper attachment comprising a bored shank receiving the opposite end of said handle, a tubular housing secured at right angles to said shank, and resilient impetus producing means disposed in said tubular housing.

2,530,864
TIP-UP FOR ICE FISHING
Loris E. Easterday, Fulton, Ind.
Application April 16, 1948, Serial No. 21,479
1 Claim. (Cl. 43—17)

An ice fishing apparatus comprising a weighted base, a rod member secured to said base and projecting upwardly therefrom, said rod member having a bend therein intermediate its ends which extends forwardly and upwardly, a lever having a short straight intermediate portion and angled forwardly and rearwardly extending arm portions, a transverse shaft element rotatably carried at the end of said rod member, means adjustably securing said short intermediate portion of the lever to said shaft element, the forwardly extending arm portion of said lever be-



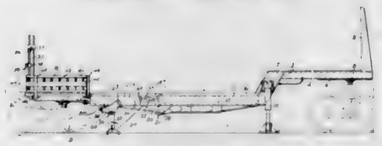
ing formed with a depending elongated transverse loop and the rearwardly extending arm portion having secured thereto a vertical flag element overlying the upper portion of the rod member, a vertical support element rising from said base forwardly of the rod member, a reel secured to said vertical support element, and a fishing line wound on said reel and passing through the loop, whereby a downward pull on the fishing line will rotate said lever to cause the flag element to be elevated.

2,530,865
CHANGE MAKER
Charles G. Emerson and Lee R. Cook, Rowlesburg, W. Va.
Application March 29, 1946, Serial No. 658,116
1 Claim. (Cl. 194—80)

A machine of the character described, comprising a cabinet, a coin receiving entrance in said cabinet, several coin feeding units disposed in said cabinet below said coin receiving entrance, means in said cabinet below said entrance for diverting a coin deposited in said entrance to one of said coin feeding units, a partition in said cabinet mounting said units in spaced relation to each other, each of said units comprising relatively spaced side walls, a first plate secured between said side walls and arranged adjacent the upper edge of said side walls, a first pair of spring tensioned dogs pivotally mounted on the side walls in opposed relation to each other, inturned ends on said dogs overlying said plate, the space between said inturned ends being less than the diameter of said diverted coin, a pusher plate slidably mounted on said first plate, a coin actuated plate slidably arranged between said side walls and disposed in the path of movement of said pusher plate, means on said pusher plate normally engageable with the dogs for limiting forward movement of said pusher plate, additional means on said pusher plate for engaging the diverted coin and causing the coin to engage the inturned ends and move the dogs out of the path of the pusher plate, a second pair of dogs

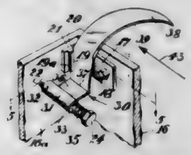
pivotally connected to said coin actuated plate, said second pair of dogs being normally out of the path of movement of said pusher plate and moveable by the diverted coin into engaging position with the pusher plate, and means for dispensing the coin at the inward movement of said pusher plate.

2,530,866
TRANSPORTATION ASSEMBLY
John L. Evans, Sumter, and Tom N. Busch, Georgetown, S. C.
Application November 26, 1946, Serial No. 712,330
15 Claims. (Cl. 280—33)



1. In a transportation assembly, a semi-trailer frame composed of a front section and a back section hinged together by a rule joint; means at the front part of the front section for coupling to a towing means; a mobile axle unit detachably coupled to and supporting the rear section of the frame when the mobile axle unit is coupled to the frame; a foldable stiff leg mounted on the rear section of the frame for supporting the same when the mobile axle unit is uncoupled and detached from the frame; a landing gear carried by the front section of the frame for supporting the same when the towing means is uncoupled; and means for holding the rule joint against breaking while the frame is in transit.

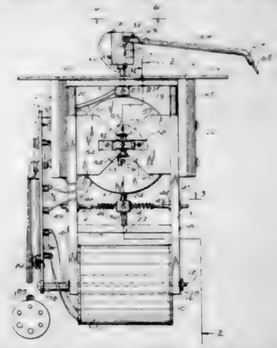
2,530,867
SPREADERS FOR CIRCULAR SAW WOOD CUTTING MACHINES
Charles Galanga, Maspeth, N. Y.
Application March 28, 1949, Serial No. 83,858
6 Claims. (Cl. 143—157)



1. In a circular saw wood cutting machine, the combination of a member having a slot secured to the frame of the machine, a crescent shaped spreader having its back portion engaging said slot, and a spring for pressing said spreader into said slot.

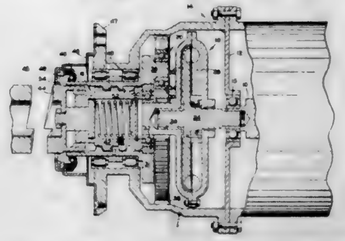
2,530,868
RECORDING DEVICE
Lovett Garceau, Holliston, Mass.
Application March 30, 1946, Serial No. 658,425
14 Claims. (Cl. 346—112)

8. In a recording device, an electro-magnet having spaced parallel legs, pole pieces supported on said legs, a shaft between and having its axis parallel to said legs, an armature secured to said shaft and positioned in cooperative relation with said pole pieces, spaced supports on said magnet including bearings for said shaft, stationary windings embracing portions of the length of said armature for magnetically influencing the same, a stylus mounted on said shaft and moved thereby in unison with the movement of said armature, balanced spring means secured to said legs and acting oppositely upon said shaft for urging said



stylus toward its zero position, and a connection between said stylus and a source of direct current, said connection including a limiting resistor.

2,530,869
ENGINE STARTER
Samuel Gilbert, Cedar Grove, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 25, 1949, Serial No. 78,380
1 Claim. (Cl. 74—7)



An engine starter comprising, in combination, a starter motor of a rapidly accelerating high speed type, a jaw advancing mechanism comprising a rotatable internally threaded nut, an externally threaded screw shaft concentrically arranged within said nut having threads adapted to engage the threads of said nut and having connected thereto a starter jaw, a fluid coupling including an impeller and a runner, said runner having a hub portion rotatably supported by said nut, said impeller having a stub shaft one end of which is rigidly connected to the starter motor and the other end of which is journaled in the hub portion, a planetary reduction gearing drivingly connecting said hub portion to said nut, said screw shaft being axially movable upon rotation of said nut to move said starter jaw into engagement with a mating jaw member of the engine to be started and then to rotate with said nut to crank the engine to be started.

2,530,870
FULL-LINED INSIDE OUT MADE NECKTIES
Florence Goldsmith, Rigo Park, N. Y.
Application April 12, 1948, Serial No. 20,420
3 Claims. (Cl. 2—146)

1. The method of making a full lined inside out made necktie, made from a pair of flat aligned

decorative front layers and a pair of flat aligned undecorative facings, each pair joined at the neck portion of the tie, said decorative layers being superposed and joined in flat marginal registration, and bent on themselves along a longitudinal central line to form a tube with the facings enclosing the decorative layers, and reversed inside out to enclose the facings, which consists in subjecting each of said aligned facings to cutting to form a cutout in each facing forming a pair of marginal legs, said cutouts having their open ends facing each other spaced longitudinally of the neckband, forming at the neckband one common open space between the cutout ends of the facings, and stitching the ends of each pair of legs to join the legs to each other, leaving the spaced cutout ends of the facings free of the decorative layer, whereby the neckband of the completed inside out tie is free from crumpling.

2,530,871
LINEAR ACTUATOR
Clement Elphick Gossling, Winnipeg, Manitoba, Canada, assignor to Hudson's Bay Company, London, England, a corporation of England
Application November 24, 1948, Serial No. 61,878
4 Claims. (Cl. 74—25)

1. A device for converting rotary motion into linear motion, comprising a tubular casing, a spindle rotatable within said casing, spindle-rotating means, flexible spindle-propelling means secured to and spirally encircling said spindle over spaced-apart portions of its length, and means for reversing the direction of rotation of said spirals.

2,530,872
ESTERS OF SULFUR-CONTAINING POLYCARBOXYLIC ACIDS
James T. Gregory, Cuyahoga Falls, and Jacob Eden Jansen, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 18, 1947, Serial No. 755,478
3 Claims. (Cl. 260—30.8)

1. A composition of matter comprising a rubbery copolymer of butadiene-1,3 and acrylonitrile and, as a plasticizer therefor, from about 20 to 30 parts by weight based on 100 parts by weight of the said copolymer of a compound of the formula

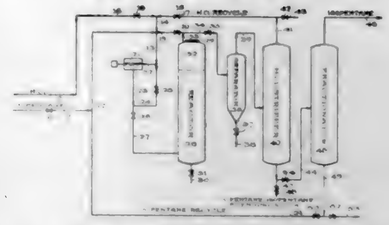
$$R_1-O-\overset{\overset{O}{\|}}{C}-R-S-R(X-R)_n-S-R-\overset{\overset{O}{\|}}{C}-O-R_1$$

wherein X is a chalcogen occurring in one of the short periods of the periodic table, R is a bivalent aliphatic hydrocarbon radical containing from 1 to 4 carbon atoms, R_1 is a monohydric alcohol radical containing from 1 to 18 carbon atoms, and n is an integer from 1 to 4, said composition being characterized in that the said plasticizer is retained by the said copolymer at high temperatures and imparts thereto, in addition to enhanced softness and elasticity, the ability to remain flexible at substantially lower temperatures, all without substantially lowering its tensile strength.

2,530,873
GARDEN HOSE HOLDER
Anthony N. Grotz, Chicago, Ill.
Application November 10, 1948, Serial No. 59,247
3 Claims. (Cl. 248—76)

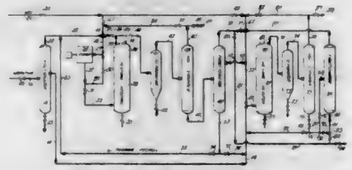
2. A garden hose holder comprising a vertically disposed centrally positioned post having a pointed lower end with a downwardly extended semi-circular saddle extended laterally from the upper end of the post, and upwardly extended substantially semi-circular holding elements spaced from the saddle and supported therefrom by horizontally disposed bars, one of said bars extended from the saddle at the upper end of the post and connected to one of the semi-circular holding elements at one side of the holder and another bar at the opposite side of the holder connecting the said semi-circular holding elements.

2,530,874
ISOMERIZATION OF NORMAL PENTANE
Bernard H. Gwynn, Tarentum, and Charles W. Montgomery, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application December 18, 1946, Serial No. 717,010
3 Claims. (Cl. 260—683.5)



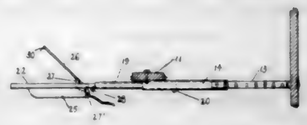
1. In a process of producing isopentane from normal pentane by contacting normal pentane with an aluminum halide catalyst in the presence of a hydrogen halide under isomerizing conditions and in the absence of a cracking inhibitor other than that specified below, the improvement comprising contacting with said aluminum halide and hydrogen halide in a reaction zone at a temperature below about 70° C. a charge mixture consisting essentially of normal pentane and isopentane, said charge mixture containing about 35 to about 45 per cent by weight of isopentane, said isopentane acting to inhibit cracking of said normal pentane, and withdrawing from said reaction zone a reaction mixture containing substantially more isopentane than was present initially and not more than about 60 per cent by weight of isopentane.

2,530,875
ISOMERIZATION OF LIGHT NAPHTHA
Bernard H. Gwynn, Tarentum, and Charles W. Montgomery, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application August 29, 1947, Serial No. 771,370
1 Claim. (Cl. 260—683.5)



A process of increasing the isoparaffin content of a light naphtha of the pentane-hexane boiling range comprising separating said naphtha into a pentane fraction and a hexane fraction consisting predominantly of normal hexane; admixing with said pentane fraction normal pentane recycle and a proportion of normal pentane-isopentane reaction mixture sufficient to produce a normal pentane-isopentane charge mixture consisting essentially of normal pentane and isopentane and containing about 35 to about 45 per cent by weight of isopentane; isomerizing said normal pentane-isopentane charge mixture in the presence of an aluminum halide catalyst and a hydrogen halide promoter in a pentane isomerization zone at a temperature below about 70° C., said isopentane in said normal pentane-isopentane charge mixture acting to inhibit cracking of said normal pentane and being the only cracking inhibitor present in effective amounts in said pentane isomerization zone; withdrawing from said pentane isomerization zone a pentane reaction mixture containing substantially more isopentane than was present in said normal pentane-isopentane charge mixture and not more than about 60 per cent by weight of isopentane; dividing said pentane reaction mixture into two portions; recycling to the pentane isomerization zone one of said portions admixed with normal pentane as aforesaid, fractionating the remaining portion into a cut consisting essentially of normal pentane and a cut comprising isopentane; recycling normal pentane from said fractionation to said pentane isomerization zone; mixing with the aforesaid hexane fraction a mixture of isopentane and normal pentane recovered in said fractionation and containing about 85 to 90 per cent by weight isopentane in an amount sufficient to produce a hexane charge mixture containing at least about 45 per cent by weight of isopentane; isomerizing said hexane charge mixture in the presence of an aluminum halide catalyst and a hydrogen halide promoter in a hexane isomerization zone at a temperature below about 75° C., withdrawing from said hexane reaction zone an improved light naphtha, said improved light naphtha containing unconverted normal hexane, a substantial amount of isohexane, and a pentane content consisting essentially of an equilibrium mixture of normal pentane and isopentane.

2,530,876
AUTOMOBILE TRAY
Cecil H. Harris, Albertville, Ala.
Application April 23, 1946, Serial No. 664,305
1 Claim. (Cl. 206—19.5)



A tray assembly adapted to be mounted beneath the dashboard of an automobile and including a tray supported for sliding movement between a retracted position in which it is disposed substantially ahead of the dashboard and an extended position in which it is disposed rearwardly of the dashboard and in the front passenger compartment of the automobile, said tray assembly comprising a pair of substantially parallel channel members having apertured tabs at their forward ends for attachment to an automobile dashboard and lower flanges cut away to provide stop shoulders intermediate the length thereof, a pair of adjustable brackets secured to the rear ends of said channel members for attachment to automobile structure ahead of the dashboard, cross bars extending between and secured to said channel members, a pair of secondary slide channels slidably received one in each channel member and each having a tab on its rearward end cooperating with the stop shoulder of the corresponding channel member to limit forward movement of said secondary slide channels relative to said channel members, said channel members having closed rear ends limiting rearward movement of said secondary slide channels relative thereto, a rectangular tray slidable in said secondary slide channels and having a top wall including a receptacle, depending side flanges provided at their lower edges with inwardly-extending tabs, and front and rear depending flanges, respective tab elements on the forward ends of said secondary slide channels cooperating with said tray flange tabs to provide a stop for forward movement of said tray relative to said secondary slide channels, and a closure for said receptacle hinged to said top wall to lie substantially flush therewith when closed.

2,530,877
PORTABLE SCREEN STAND
John T. Heck, Elmhurst, and Leo J. Du Mais and Curtis O. Talbot, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois
Application October 25, 1947, Serial No. 782,203
12 Claims. (Cl. 160—24)

5. A portable picture screen support comprising a base having a center member provided with means for holding the lower end of a vertically disposed screen standard, a pair of laterally spaced bracket members each for receiving and holding one end portion of a screen casing, said casing being mounted in horizontal position, and

transversely extending means rigidly connecting said center member and bracket members,

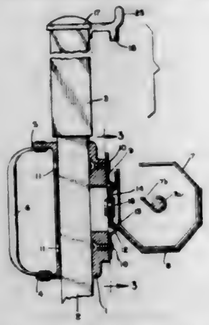
said center member and bracket members having their bottom surfaces in a common plane.

2,530,878

OPERATING HANDLE AND SCREEN CASING SUPPORT FOR PORTABLE PICTURE SCREENS

John T. Heck, Elmhurst, and Leo J. Du Mais and Curtis O. Talbot, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois

Application October 25, 1947, Serial No. 782,204
10 Claims. (Cl. 160—24)



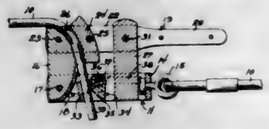
1. In a collapsible screen standard having a vertical screen support member, an operating means comprising a hollow body slidable on said member, lock means on said body for engaging said member at predetermined positions therealong, a screen casing pivotally mounted on said body and wholly supported thereby, and means on said body for stopping pivotal movement of said screen casing when the same is rotated to a position aligned with said support member.

2,530,879

DEVICE FOR BINDING CABLES ONTO LOADS OF MATERIAL

Lauri A. Hendrickson, Waldoboro, Maine

Application September 20, 1949, Serial No. 116,820
3 Claims. (Cl. 24—68)



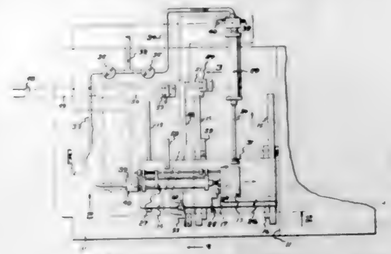
3. In a clamp for binding a cable around a load of material, a body member, said body member including a pair of legs, and a web connecting said legs together, an eye bolt secured to said web and having one end of the cable connected thereto, a bar positioned between said legs and secured thereto, there being an opening in said bar, a chain connected to said bar, a locking pin carried by said chain, a semicylindrical cam positioned between said legs and pivotally connected thereto at their adjacent ends, there being a plurality of teeth arranged on said cam, a support member pivotally connected to said cam at the other end thereof, a handle projecting from said support member, an arcuate cam pivotally connected to said support member and having a plurality of teeth thereon, the teeth on said arcuate cam and the teeth on said semicylindrical cam serving to grip therebetween the other end of said cable, said support member including a pair of legs adapted to embrace said bar, there being registering openings in said legs of said support member for registering with the opening in said bar, said registering openings adapted to receive therein said locking pin.

2,530,880

CONTROL FOR CUTTING MACHINES

Augustus H. Hermann, Melrose, Mass., assignor to Samuel Cabot, Inc., Boston, Mass., a corporation of Massachusetts

Application September 23, 1949, Serial No. 117,344
5 Claims. (Cl. 143—25)



1. A control for a machine having a table, a shoulder, and a cutting element spaced from the shoulder for uniformly slabbing blocks of wood held against the shoulder and slid against the cutting element, said control comprising a slide movable on said table in parallel with said shoulder between first and second positions, a block holding clamp, first means on said slide in support of said clamp to reciprocate it between a first position in which it is spaced from said shoulder and a second position in which said block is pressed against said shoulder, second means on said table and connected to said slide to reciprocate it between its first and second positions, each of said means including a cylinder, a piston, a valve control having a first position in which air is delivered to one side of said piston and a second position in which air is delivered to the other side thereof, first and second solenoids for each valve control to establish, when energized, said first and second positions respectively, a source of air in communication with the valve control of each of said means, and an electric circuit including first, second, and third normally open switches on said bed, each of which includes an arm, first, second and third cams carried by said slide, parallel leads from said first switch to the first solenoid of the first means and to the second solenoid of the second means, a lead from said second switch to the second solenoid of said first means, and a lead from the third switch to the first solenoid of the second means, said cams and switch being located so that said first switch is closed by said first cam in the first position of said slide and said second and third switches are closed by said second and third cams in the second position of said slide.

2,530,881

SUN SHIELD

Paul H. Houston, Fairmont, W. Va.

Application October 28, 1947, Serial No. 782,596
2 Claims. (Cl. 2—12)

1. A sun shield including a shield body member, said body member being substantially flat throughout and when in wearing position being in substantially a horizontal plane above the eyes, whereby it does not obstruct vision in any direction, the rear edge of the body member being shaped to fit neatly about the forehead to prevent the passage of light rays between the forehead and the body member, a nose-piece carried by the body member, temples hinged to the rear ends of the body member and inclined downwardly therefrom, said body member having a substantially opaque underside, and the underside having a roughened surface to reduce reflection.

2,530,882

VINYL RESINS PLASTICIZED WITH POLY-(CARBALKOXYALKYLENETHIO) COMPOUNDS

Jacob Eden Jansen, Akron, and James T. Gregory, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application April 11, 1947, Serial No. 740,972
11 Claims. (Cl. 260—30.8)

1. A plasticized resin composition comprising a thermoplastic polymer of a monomeric material in which each constituent contains a single olefinic double bond and in which the predominent constituent is vinyl chloride, and, as a plasticizer therefor, an ester of a sulfur containing polycarboxylic acid, said ester containing from 14 to 36 carbon atoms, from 4 to 8 oxygen atoms connected only to carbon, and from 2 to 4 sulfur atoms, the remaining atoms being hydrogen atoms connected only to carbon and said ester being characterized by possessing from 2 to 4 carbalkoxyalkylenethio radicals of the structure

$$\text{S}-\text{R}-\underset{\underset{\text{O}}{\|}}{\text{C}}-\text{O}-\text{R}'$$

wherein R is alkylene and R′ is alkyl.

2,530,883

METHOD OF PURIFYING PENICILLIN SOLUTIONS

Wilbur L. Keko and Jerome L. Martin, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

Application September 13, 1945, Serial No. 616,150
4 Claims. (Cl. 260—302)

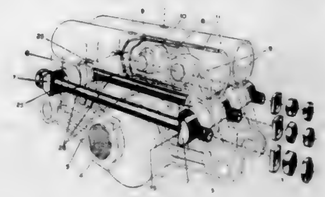
1. A method for effecting a rapid multi-stage equilibrium transfer of penicillin material from aqueous acid solutions thereof to organic, water-immiscible liquid non-polar solvents, in a limited period such that appreciable destruction of penicillin activity is avoided, which comprises passing in thin streams an aqueous acid solution of penicillin material in intimate surface contact with, and counter-current to a thin stream of an organic water-immiscible non-polar liquid penicillin solvent while applying force to said streams of such character as to maintain the common surfaces of the counter-current liquid streams in intimate contact with each other while concomitantly maintaining the bulk of said streams as separate homogeneous flowing masses, and limiting the time of contact between the said streams to a period insufficient to effect an appreciable loss of penicillin activity.

2,530,884

INTERNAL-COMBUSTION ENGINE WITH OPPOSED PISTONS

Roland Laraque, Paris, France, assignor to L'Auxiliaire Industrielle, Paris, France, a corporation of France

Application January 30, 1947, Serial No. 725,246
In France December 15, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 15, 1965
3 Claims. (Cl. 123—51)



1. Internal combustion engine comprising in combination a recessed cylinder housing, a generally horizontal cylinder liner mounted a friction fit in a recess of said cylinder housing, blocking means for blocking said cylinder liner with respect to said housing substantially at the longitudinal mid-point of said liner, a pair of co-operating pistons reciprocable in said liner in mutually opposed relationship, a crankshaft for said engine and a pair of co-operating crankpins on said crankshaft, connecting rods pivoted on said crankpins, respective rocker means each pivoted at one end to each of said connecting rods and at the other end to each of said pistons, fixed shafts for rotatably mounting said rockers intermediate their ends, flats milled in spaced relationship on said rocker shafts, adapted to co-operate with complementary flats formed in said housing, holes formed through said rocker shafts in said flats thereon, tie-rods engaged in said rocker-shaft holes to immobilize said rocker shafts in said housing, said rocker shafts related to both pistons of said cylinder being arranged equidistant with respect to the transverse central plane of said cylinder liner, means pivotally connecting the free ends of each of said rockers to each of said pistons and internal combustion means to reciprocate said pistons in said cylinder.

2,530,885

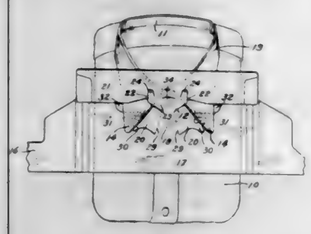
FOLDED SHIRT AND COLLAR PROTECTOR

Stephen Lighter, Whitefish Bay, Wis.

Application September 8, 1947, Serial No. 772,729
2 Claims. (Cl. 223—83)

1. In a collar protector for folded shirts, a panel formed for coaction with the outer forward por-

tion of the neck-band of a folded shirt beneath the outer collar and collar lapels, a neck-band clamping plate swingably associated at its medial portion with the medial portion of said panel, and a platform swingably uniting said medial panel and plate portions and having its opposite sides provided with clamping elements engageable

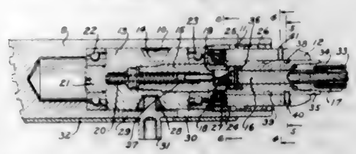


with notches in adjacent parts of the plate, said platform being separated at its mid-portion from the adjacent portion of said plate by a slit terminating short of the clamping elements and which provides a weakened fold line forming a stiff top ridge when the protector is applied to a collar.

2,530,886
STEERING MEANS FOR MANUALLY PROPELLED DEVICES
Florence Maisel, Colts Neck, N. J.
Application November 9, 1946, Serial No. 708,965
3 Claims. (Cl. 280—48)

3. In a steering means for manually propelled devices, the combination of a frame member having supporting rolling members below the same, a journal member on said base member, the axis of the journal member being planularly coincident with the longitudinal axis of the frame member, a member journaled in said journal member having a straight part adjacent said journal member, co-axial with said journal member and rotatable therein, and having a longer straight part to act as a handle, and having an angular part between the straight parts, said angular part being in a plane coincident with a vertical plane passing through the axis of the journal member and frame member, and said angular part being at an angle to said vertical plane by rotation of the member, whereby pressure applied to the frame member in said vertical plane, moves the frame member in line with the direction of said pressure and in line with said vertical plane, and when the angular part is in a plane at an angle to the vertical plane, said applied pressure moves the frame member at an angle to the direction of the pressure and at an angle to said vertical plane to enable the frame member to move in an orbit of which the axis of an obstruction is the center.

2,530,887
AXIALLY ENGAGING POSITIVE CLUTCH
Siegmund Mandl, Milwaukee, and Edward M. Pfauser, Elm Grove, Wis., assignors to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 26, 1945, Serial No. 590,381
16 Claims. (Cl. 192—67)



3. In a rotary motion transmitter, a casing, driving and driven members journalled for rotation relative to said casing, one of said members having a recess and the other having a projection movable into said recess to establish a driving connection between said members, and one member also having an abutment thereon, means constantly tending to urge said projection out of driving contact with said recess, a bearing element supporting said driving member and being cooperable with said abutment to shift said member toward the driven member, a latch cooperable with said casing and with said bearing element to hold said projection in driving engagement with said recess, and a second latch cooperable with said casing and with said element to prevent said driving member from being forced out of said casing when said first mentioned latch is released, said driving member being freely removable from said casing when said second latch is released.

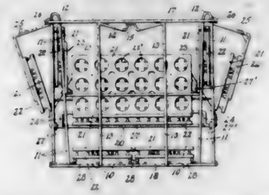
2,530,888
CAP FOR GREASE FITTINGS
Peter J. Marchelewicz, South Bend, Ind.
Application March 19, 1946, Serial No. 655,547
1 Claim. (Cl. 184—88)

In a flexible cap for grease fittings having a head on one end thereof and a plurality of recesses therein to conform with said grease fittings, the improvement comprising a thin wall on said cap opposite to the head thereon for the sealing of said cap and a cord in said cap inwardly of the thin wall thereof for severing said thin wall before application of the cap to the grease fitting.

2,530,889
EGG GATHERING BASKET
Arthur H. Massey, Alhambra, and Donald Q. Park, Los Angeles, Calif.
Application August 1, 1949, Serial No. 108,016
7 Claims. (Cl. 224—45)

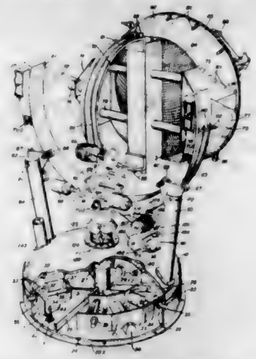
1. An egg gathering basket open at its top, a plurality of horizontal egg holders therein, arranged at different levels, one above the other, said holders being hingedly connected to said

body, whereby to be moved to give access to the holders at the next level below, each holder con-



sisting of upper and lower members connected at a space one above the other.

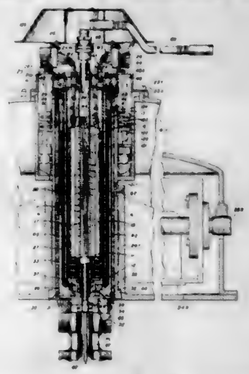
2,530,890
RADAR ANTENNA DRIVING MECHANISM
Charles F. Mattke, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 26, 1947, Serial No. 763,968
7 Claims. (Cl. 250—33.65)



7. A radio signaling apparatus comprising a reflector, a base, a turn-table mounted for rotating movement on said base, means mounted by said turn-table and supporting said reflector for actuating said reflector in a plane at right angles to the plane of rotation of said turn-table, and second means supported by said first means for rotating said reflector in a plane at right angles to each of said other planes, both of said means including a semi-ring element each connected to said reflector, a drum, cables wound on said drum and attached to the respective element, and a motor for rotating said drum whereby said semi-ring element and said reflector are rotated.

2,530,891
ROTARY MULTICONTACT DEVICE
Charles F. Mattke, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 2, 1948, Serial No. 111
6 Claims. (Cl. 173—324)

1. A multicontact device comprising a shaft, a plurality of spider-shaped insulating elements mounted in superposed relation on said shaft, means for collectively securing the arms of said spider-shaped elements in adjusted angular relation to each other on said shaft, a plurality of rings of conducting material disposed in superposed relation to each other, one of said rings for each of said elements, insulating means interposed between said conducting rings, a plu-

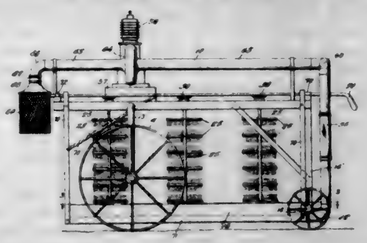


rality of means for securing said conducting rings and said insulating means in superposed relation to each other, and conducting means carried by said arms for engaging said conducting rings.

2,530,892
PICTURE HANGER
John C. C. Mayo, Ashland, Ky.
Application March 31, 1949, Serial No. 84,574
5 Claims. (Cl. 248—29)

1. A picture hanger comprising a first unit securable to a wall, a second unit securable to a picture frame, said units including coplanar members having interfitting arcuate contact faces allowing adjustment of one of said units relative to the other of said units about a common horizontal axis of said arcuate faces.

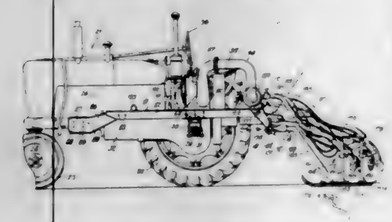
2,530,893
INSECT EXTERMINATING DEVICE
Joe E. McElreath, Ada, Okla.
Application October 28, 1944, Serial No. 560,838
5 Claims. (Cl. 43—143)



1. An insect exterminating device comprising a frame, insect receiving pans secured to said

frame and arranged for swinging movement, means for brushing insects from plants, means oscillatingly mounting said brushing means on said frame and above said pans, means carried by said frame for simultaneously oscillating said brushing means and swinging said insect receiving pans, said pans having pockets, rods secured in said pockets, caps having inclined walls, and means resiliently supporting said caps on said rods.

2,530,894
FLAME CULTIVATOR
Price C. McLemore, Montgomery, Ala.
Application June 30, 1945, Serial No. 602,545
5 Claims. (Cl. 126—271.2)

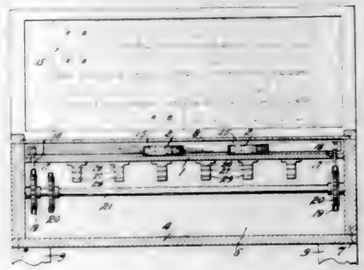


1. A flame cultivator attachment adapted to be connected to a tractor comprising a frame having side arm portions and a transverse rear portion, said frame being adapted to be assembled with the tractor with said side arm portions fastened to the sides of the tractor, a plurality of burners of the blast type connected to said frame, a high pressure container of bottled gas mounted on said frame for supplying fuel to said burners, and a power driven blower mounted on said frame for supplying air to said burners, said high pressure container and said blower being removed with said frame as a unit assembly in the detachment of said frame from the tractor.

2,530,895
TRAIN AND RAIL ALIGNER
Ralph V. Melior, San Francisco, Calif.
Application November 3, 1948, Serial No. 58,109
1 Claim. (Cl. 104—264)

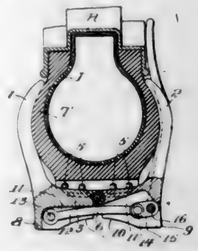
A toy car truck and rail aligner comprising an inclined ramp, the upper end of said ramp having a down-turned end, the lower end of said ramp and said down-turned end each having notches formed therein for engagement with the rails of a track, the lower end of said ramp having slots formed in its upper surface and in parallel alignment with said supporting tracks, and a truck straightener positioned on said ramp, said straightener having vertical sides parallel with said slots, whereby a train truck rolling down said ramp will have its wheels aligned with said slots and said supporting rails, the side margins of said ramp being raised above the surface of said ramp to form diverging wheel-guiding side margins, diverging from the lower end of said ramp to its upper end.

2,530,896
MAGNETIC DISK FOR SHUFFLEBOARD TABLES
Christopher Metz, Baldwin, N. Y.
Original application September 8, 1944, Serial No. 553,163. Divided and this application December 5, 1945, Serial No. 632,878
2 Claims. (Cl. 273—128)



1. A shuffleboard disk comprising a disk body and a magnet with its opposite poles adjacent the center of disk and embedded in said disk body in position to make the faces of said disk of opposite magnetic polarity.

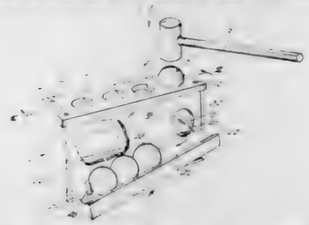
2,530,897
NONSKID TRACTION CLEAT
Grant Miller, Washington, D. C.
Application June 24, 1949, Serial No. 101,133
4 Claims. (Cl. 152—225)



1. In a detachable traction cleat for use on a wheel tire, the combination with a pair of opposed clamping jaws having tread plates, and a central joint between said plates, of ground-engaging lugs integral with the plates and adapted to form fulcrums for the jaws, a toggle-lock for the jaws mounted in the tread plates, and a lever for manually operating the toggle lock.

2,530,898
HAMMER TOY
John Morrison, Franconia, N. H.
Application June 1, 1950, Serial No. 165,549
20 Claims. (Cl. 46—1)

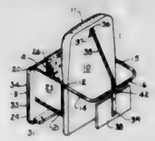
19. A hammer toy comprising an enclosure having opaque top, side and end walls, said top wall having a restricted aperture therethrough, a rollable member adapted to pass through said top wall via said restricted aperture and of a size such as to have a frictional fit in said restricted aperture so that it must be forced therethrough as by hammering, and a partition in said enclosure under said aperture inclined downwardly toward a side wall and an end wall thereof, said side wall having a large aperture therein adjacent said end wall and alongside said partition adjacent its lowest point, said aperture being of a size such that said rollable member will pass freely therethrough, whereby said rollable member, when hammered through said top wall via said restricted aperture, will disappear inside said enclosure, roll along said partition, pass through said large aperture and reappear.



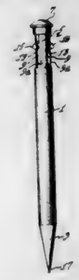
2,530,899
LOCKING DEVICE FOR VALVES AND THE LIKE
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application April 18, 1946, Serial No. 663,172
6 Claims. (Cl. 292—307)

1. Apparatus of the character described comprising a valve mounted for turning movement in a conduit between adjusted positions, said valve having an outwardly extending head with opposite flat side surfaces and an opening therethrough between said surfaces, a locking saddle having a forward face to abut one of the side surfaces of said head and a key extending from said face through said opening, said saddle having legs for engaging the conduit to prevent turning of the valve therein, and means on the outer end of said key for engaging the other side surface of said head and providing against withdrawal of said key through said opening in the direction of said saddle.

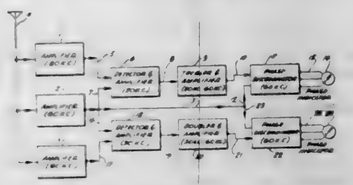
2,530,900
CHILD'S SEAT
Albert H. Nelson, Jr., Wichita, Kans.
Application January 29, 1946, Serial No. 644,057
2 Claims. (Cl. 155—79)



1. A child's seat comprising: a frame; a seat and a back rest panel supported by the frame intermediate its ends, the panel extending above and below said frame; a brace member connected at spaced points to the back rest and to the frame aft of the back rest, a portion of it extending below the frame; a plate member rigidly carried by the last mentioned portion of said brace member in a plane spaced from and substantially parallel to that portion of the back rest below said frame, said plate, said frame, and that portion of the back rest below said frame being adapted to cooperate to embrace an independent stable object for supporting the child's seat at a relatively high level with relation to the upper end of said object.

2,530,901
MULTIPLE HOLDER WRITING INSTRUMENT AND METHOD OF MAKING SAME
Edgar B. Nichols, Moorestown, N. J.
Application February 28, 1948, Serial No. 12,059
15 Claims. (Cl. 120—14.5)

1. The method of manufacturing a writing instrument of the type having (1) a tubular barrel, (2) a plurality of writing element holders therein each movable from a concealed position within said barrel to a writing position at one end thereof and back again, and (3) a control member at the other end of said barrel common to all of said holders and having a plurality of slots therein each in association with a separate one of said holders, said method comprising the steps of punching in a strip of flat, deformable material transversely thereof a plurality of said slots in longitudinally spaced relation along said strip, severing from said strip transversely thereacross discrete lengths of said strip each of which includes at least a part of one of said slots, forming said severed lengths into arcuate members considered in a direction longitudinally of said strip originally, and assembling at least one of said arcuate lengths with said barrel.

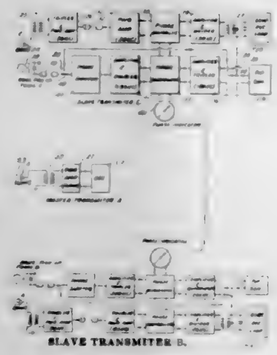
2,530,902
RECEIVING APPARATUS FOR RADIO-FREQUENCY NAVIGATION SYSTEMS
William J. O'Brien, London, England, assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application August 27, 1945, Serial No. 612,997
5 Claims. (Cl. 343—105)



1. In a receiving apparatus for use with a radio frequency navigational system operating to trans-

mit from spaced points a pair of radio frequency signals of unlike but related frequencies bearing a fixed multiple phase relation to each other, the combination of: a pair of radio frequency receivers tuned respectively to the frequencies of said signals; means for combining and rectifying the combined outputs of said receivers to produce a heterodyne frequency equal to the difference between said frequencies; frequency multiplying means for converting said heterodyne frequency to equality with one of said signal frequencies; and means for measuring and indicating the phase relation between said converted frequency and said one frequency.

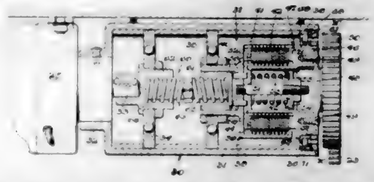
2,530,903
NAVIGATION SYSTEM
William J. O'Brien, London, England
Application July 28, 1949, Serial No. 107,337
In Great Britain August 23, 1945
23 Claims. (Cl. 343—105)



1. A radio frequency navigation system comprising a master radio frequency transmitter at one location for radiating radio frequency energy of a given frequency; a first receiving means at a second location for receiving said radiations; frequency change means coupled to said receiving means; an amplifying and transmitting means coupled to said frequency change means for radiating radio frequency energy at a second frequency different from said given frequency; a second receiving means at a third location for receiving radiations at said given frequency; another frequency change means coupled to said second receiving means; another amplifying and transmitting means coupled to said other frequency change means for radiating radio frequency energy at a third frequency different from said second frequency and said given frequency; and continuously operating phase controlling means for maintaining fixed multiple phase relationships among said radiations.

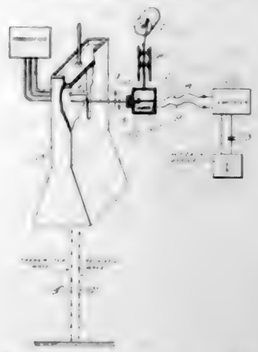
2,530,904
CLUTCH CONTROL
August W. Ofeldt, Hackensack, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 16, 1944, Serial No. 554,499
9 Claims. (Cl. 192—55)

1. In combination, a housing, a reversible motor including a shaft extending into said housing, and means in said housing including an axially stationary coupling sleeve splined to said shaft for rotation therewith and having an internally screw threaded portion, a bearing rotatively supporting said sleeve, an axially movable second rotatable coupling sleeve having opposite internal screw thread, a shaft having opposite end lengths in and cooperatively threaded to said sleeves, respectively, a member including oppositely facing cup portions of different diameters having a mutual bottom wall therebetween, the cup of smaller diameter being disposed about and splined to said second sleeve for rotation therewith, a bearing cooperating with said smaller cup and rotatably supporting said member, torque limiting means including a friction disc pack in the cup of larger diameter, a third cup surrounded by said pack having a closed end wall next to said bottom wall and a shoe at the open end of the third cup axially opposite one end of said



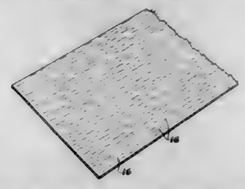
pack, discs of said pack being splined to said larger cup and said third cup, respectively, for rotation therewith and axial movement relative thereto, a bolt concentric with said discs in said third cup fixed to said closed end, a spring tensioning member around said bolt, a spring around said bolt between said closed end and said tensioning member for urging said shoe against said pack and pressing the pack at its other end against said bottom wall, a bearing for, and providing for axial movement of, said third cup, slide pin means in said bottom wall through the intermediary of which said second sleeve moves said third cup against the action of said spring to relieve the pressure of said shoe on said pack, and a driven gear outside said housing and connected to said third cup for rotation thereby.

2,530,905
AIRCRAFT ALTIMETER, PARTICULARLY APPLICABLE TO LOW ALTITUDES
Antoine Jean Ortusi and Maurice Ponte, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application April 30, 1947, Serial No. 744,843
In France April 6, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 6, 1966
3 Claims. (Cl. 343—12)



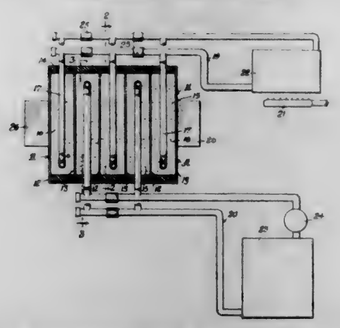
1. An altimeter comprising a guide closed at one end with the other end open and directed toward the terrestrial surface, means placed on the side of the closed end for transmitting in said guide an ultra-short wave with a fixed and stable frequency for producing by reflection on the said terrestrial surface and reception of the reflected waves stationary waves on the inside of the said guide, a movable electric coupling element disposed inside the said guide between the said transmitting means and the said open end in the field of the said stationary waves and sensitive to these waves, means for animating the said element with a reciprocative movement in the direction of the longitudinal axis of the guide for inducing in the said element a potential which is a function of the amplitude of the said waves, means for measuring the said potential and means for transforming the measure of the said potential into an indication of the height.

2,530,906
SHEET PACKING AND METHOD OF MANUFACTURE
Henry J. Palumbo, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application June 28, 1947, Serial No. 757,831
9 Claims. (Cl. 260—37)



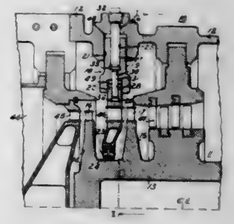
1. A flexible sheet which resists embrittlement and hardening at extreme high and low temperatures comprising a mixture of infusible insoluble polymerized dialkyl silicone binder and reinforcing fibers including 15–50% of crocidolite asbestos fibers, the alkyl radicals in said binder belonging to the group consisting of methyl, ethyl, propyl, and butyl.

2,530,907
THERMOELECTRIC GENERATOR
Herschel G. Pack, Bakersfield, Calif.
Application April 5, 1948, Serial No. 18,877
6 Claims. (Cl. 171—97)



5. In combination with an electric transformer having a core and a secondary winding thereon, a primary winding around said core and having free ends connected to a chamber, spaced walls of said chamber formed by thermo-electric plates, a source of heated conductive liquid, connections from said source to said chamber, and means associated with said source to alternately move liquid through said connections into said chamber and withdraw it therefrom.

2,530,908
TURBINE DIAPHRAGM
James L. Ray, Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 18, 1946, Serial No. 697,799
4 Claims. (Cl. 253—78)



1. A turbine constructed and arranged for operation by elastic fluid, comprising: a rotor shaft; an annular wall surrounding said shaft and leaving a space between said wall and said shaft; diaphragm means including a plurality of concentric ring means across said space, the outermost of said ring means having a lost motion connection with said annular wall, and having a lost motion connection with adjacent smaller ring means; first centering means for maintaining said outermost ring means coaxial with said shaft while permitting free expansion and contraction of said outermost ring means in all radial directions, said first centering means including a first plurality of sets of circumferentially spaced holes in said outermost ring means and said wall respectively, holes of said respective sets being in radial alinement and a plurality of first members cooperating with alined sets of said first plurality of sets; and second centering means for maintaining said smaller ring means coaxial with said shaft while permitting free expansion and contraction of said smaller ring means in all radial directions, said second centering means including a second plurality of sets of circumferentially spaced holes in said outermost ring means and said smaller ring means respectively, holes of said respective sets being in radial alinement and in radial alinement with alined holes of said first plurality of sets, and a plurality of second members, separate from said first members, cooperating with alined sets of said second plurality of sets.

2,530,909
MECHANICAL PIPETTE
George S. Riggs, Salinas, Calif., assignor of one-third to Carl A. Nisson and one-third to Samuel C. Riggs, Salinas, Calif.
Application November 14, 1947, Serial No. 785,977
3 Claims. (Cl. 73—425.6)

1. A mechanical pipette for taking milk samples for testing purposes comprising a barrel open and internally screw threaded at opposite ends, said barrel being provided at one end with outstanding finger-grips, a screw-threaded bushing adjustably screwed into said one end, a screw-threaded centrally bored nozzle-tip screwed into the opposite end of said barrel, the bore in said

nozzle-tip being relatively restricted and linearly straight from end to end and constituting a milk receiving and storing chamber of predetermined and limited capacity and being adapted to permit a limited amount of milk to be sucked into same and subsequently discharged on a microscopic slide for testing purposes, a plunger including a

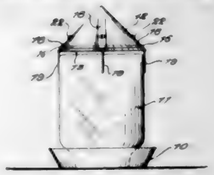
relatively large rod portion slidable in said bushing, said rod portion having a shoulder abutting said bushing so that the bushing and shoulder portion of the plunger may be adjusted in respect to the barrel, said plunger also including a reduced rod constituting a piston and fitting and operating snugly in the bore in said nozzle tip.

2,530,910
CAKE CONTAINER AND SERVER
Fred C. Schnabel, Hopkins, Minn.
Application May 1, 1947, Serial No. 745,129
3 Claims. (Cl. 45—71)

1. In a storing and food serving container, a circular base having an annular groove in the upper surface spaced from the periphery thereof, a cylindrically shaped cover positioned on the base, said cover comprising two complementary sections hinged at the center and having their lower edges seated in said annular groove, said base having a part for retaining the lower edge of one of said sections in its groove portion, whereby the other section may be swung to uncover the base, and a food plate rotatably mounted on said base and radially slidable thereon.

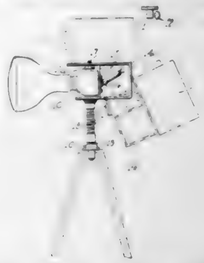
2,530,911
ADJUSTABLE CAP FOR WATER FOUNTAINS
Martin A. Schultz, Deshler, Nebr.
Application May 14, 1946, Serial No. 669,606
3 Claims. (Cl. 119—72)

1. An adjustable water preserver for poultry drinking fountains comprising a hollow conical member having a plurality of equally spaced radial grooves in the inner side thereof, legs having outwardly inclined upper slotted portions slidably disposed in said grooves and vertical lower portions depending at the edge of the coni-



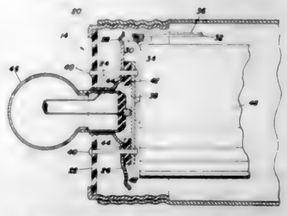
cal member, and means adjustably clamping said slotted portions of the legs in said grooves.

2,530,912
COMBINED FLOODLIGHT HOLDER AND CAMERA SUPPORT
Abraham Secofsky, New York, and Murray A. Meisel, Brooklyn, N. Y.
Application December 31, 1947, Serial No. 794,862
5 Claims. (Cl. 248—160)



2. A combination floodlight holder and camera support comprising an elongated housing carrying a plurality of spaced floodlight receptacles, a U-shaped bracket fixed to said housing centrally thereof, a mounting screw carried by the upper arm of said bracket, a flexible, adjustable connection fixed to the lower arm of said bracket for securing said bracket to a tripod, support or the like and an extension arm securable to the upper arm of said bracket by means of said mounting screw, said extension arm having a beveled slot, a slidable plate carried by said slot and a removable fastening screw carried by said plate for adjustably positioning a camera along said extension arm.

2,530,913
FLASHLIGHT LAMP SOCKET HOLDER ASSEMBLY
Joseph T. Shackel, Detroit, Mich.
Application May 6, 1947, Serial No. 746,340
3 Claims. (Cl. 240—10.6)



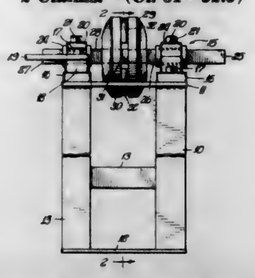
1. In a flashlight, a battery holder, a unitary lamp socket and holder assembly screwed into one end of the battery holder, a spring biased

contact plate comprising a part of said assembly and electrically connected to the lamp socket, a switch on the battery holder and having an extension disposed within the battery holder, and a rotatable element associated with said switch extension and being electrically engageable with the spring biased contact plate.

2,530,914
SCREW-EYE WRENCH
Jesse W. Simmons, Lewiston, Maine
Application April 15, 1947, Serial No. 741,571
4 Claims. (Cl. 145—50.5)

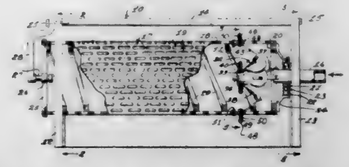
3. A screw-eye wrench or the like comprising a straight shank portion, handle means formed on an end of said shank portion at right angles thereto, an arcuate portion on the opposite end of said shank portion formed in a plane at right angles to the axis of said handle means, and a projection on the outside edge of said arcuate portion adjacent the point where said arcuate portion merges with said straight shank portion, said projection being adapted to abut against an edge of a screw-eye when said arcuate portion is inserted in a screw-eye, said arcuate portion and said projection coacting to prevent slippage of said wrench when inserting a screw-eye therewith.

2,530,915
ROTARY IMPACT WRENCH DEVICE
Joseph Stec, Chicago, Ill.
Application December 29, 1947, Serial No. 794,379
2 Claims. (Cl. 81—52.3)



1. An impact wrench device for unscrewing nuts from bolts, comprising a pair of shafts supported in a longitudinally alined relation for rotary movement, a pair of blocks rigidly set upon the inner ends of said shafts in a face to face relation, ribs integrally formed on the adjacent faces of said blocks, the ribs in the two blocks being in an alternate mutual relation and shiftable upon a common plane in a transverse relation to said shafts, means for imparting a rotary movement to one of said shafts, and a nut engaging member carried by the other of said shafts, the rotary movement imparted to said first named shaft on operation of said means causing one of said blocks to make a rotary movement for impacting the ribs of said last named block against the ribs of the other of said blocks, the impacting force imparted to the last named ribs being transmitted to said second named shaft for effecting an impacted rotary movement in said nut engaging member.

2,530,916
MUD CLEANING APPARATUS
James C. Stratton, Raton, N. Mex.
Application September 7, 1948, Serial No. 48,106
3 Claims. (Cl. 210—199)



1. A separating apparatus comprising a frame including spaced upstanding ends, a substantially horizontal tubular nipple mounted upon one end of the frame and projecting longitudinally inwardly of such end for a slight distance for receiving oil well mud to be separated, a bearing shaft mounted upon the opposite end of the frame and disposed in axial alignment with the nipple, a substantially cylindrical drum extending between the ends of the frame and having its opposite ends rotatably mounted upon the nipple and bearing shaft, the drum having perforations in its side and including an inner spiral vane secured to the inner surface of the drum and extending for substantially its entire length, a non-rotatable shaft positioned within said drum in axial alignment with and spaced from the inner end of the nipple and secured to said nipple, an annular ring rotatably mounted upon the shaft, a plurality of circumferentially spaced impeller blades secured to the annular ring for rotation therewith and extending radially outwardly of the ring and spaced radially from the inner surface of the drum, and generally radial brackets secured to the drum near the annular ring and having their inner ends secured to the impeller blades.

2,530,917
HAIR SHAPER
Don Taylor, Detroit, Mich.
Application May 17, 1946, Serial No. 670,473
3 Claims. (Cl. 30—30)

1. A cutting implement comprising a blade having a sharp edge, an elongated mounting having a socket opening in an end thereof to slidingly receive the blade, the mounting having teeth extending across said edge to expose and guard such edge and the blade having a notch at its initially inserted end; a latch on the mounting engageable in said notch to resist withdrawal

of the blade, and laterally flexible to release the blade and slidable longitudinally of the mounting to eject the blade.

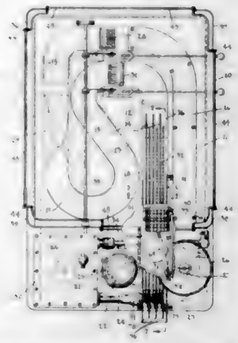
2,530,918
HAIR SHAPER
Don Taylor, Detroit, Mich.
Application August 3, 1946, Serial No. 688,294
5 Claims. (Cl. 30—30)

1. A cutting implement comprising a blade having a cutting edge, an elongated mounting formed with a socket proportioned to receive the blade and opening substantially at one end of the mounting to afford insertion and removal of the blade, a row of teeth on the mounting extending across and partially shielding said edge, a latch member carried by the mounting to retain the blade in the socket, and slidable longitudinally of the mounting, to release the blade, and having a portion resiliently flexible to operatively engage and disengage the blade, such portion being normally sprung to a blade-engaging position, the mounting and latch member having a provision for normally holding such member in a blade-retaining position, and an abutment on the mounting engageable by said flexible portion of the latch member, upon a sliding actuation of such member, to flex said portion to a blade-releasing position.

2,530,919
WALL VENT
George F. Taylor, Milltown, Wis.
Application February 13, 1948, Serial No. 8,242
2 Claims. (Cl. 98—29)

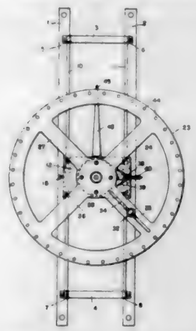
1. In a wall structure formed of clapboards one of which is provided with an opening, a screen fixed solely against the outer surface of the wall and opposing the opening, a hollow substantially wedge shaped conduit having a downwardly and outwardly inclined outer wall, said conduit being open at the lower end, a flat integral extension at the upper reduced end of the conduit received between a pair of adjacent clapboards, and means for securing the conduit to the wall registering with the opening therein.

2,530,920
DOUGHNUT MACHINE
Peter J. Toews, Minneapolis, Minn., assignor to Dough-King, Inc., Minneapolis, Minn., a corporation of Minnesota
Application September 24, 1945, Serial No. 618,234
8 Claims. (Cl. 99—406)



2. In a doughnut machine, a kettle for cooking liquid formed with a circuitous way along which the doughnuts travel, impelling means for causing the flow of the cooking liquid along said way, a receptacle for crumbs open at one end and insertable into the way with the open end either facing or extending away from the impelling means, and a member issuing from the receptacle and engaging a portion of the kettle to hold the receptacle in a position with the open end thereof extending away from the impelling means, an ejector for removing doughnuts from the way, said member when the receptacle is placed in its other position forming an obstruction adapted to engage said ejector to prevent the successful operation thereof.

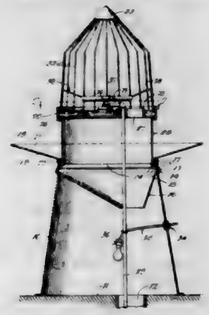
2,530,921
PUSH-AND-PULL EXERCISER
Marcel S. Tougas, Vermilion, Ohio
Application June 26, 1948, Serial No. 35,459
2 Claims. (Cl. 272—79)



2. An exercising device comprising two parallel vertical rods, a support for said rods adapted for attachment to a wall with said rods spaced outwardly therefrom, a slide mounted on said rods, means for securing said slide in selected adjusted position therealong, a stub shaft on said slide projecting outwardly at right angles thereto, a large flat plywood wheel mounted on said shaft for easy rotation thereon,

a brake drum secured to said wheel between the latter and said slide, adjustable resilient tensioning means carried by said slide, a brake band passing about said drum and engaged by said tensioning means adapted to apply the same braking force no matter in which direction the wheel is turned, a radial slot in said wheel, a handle radially adjustably secured in said slot and projecting at right angles to the face of said wheel, numerical indicia about the face of said wheel adjacent the periphery thereof, and a pointer mounted on said slide and exposed to view at the top center of said wheel.

2,530,922
WATER FOUNTAIN FOR POULTRY
Maurice Clifford Townsend, Hartford City, Ind.
Application October 1, 1945, Serial No. 619,557
4 Claims. (Cl. 119—74)

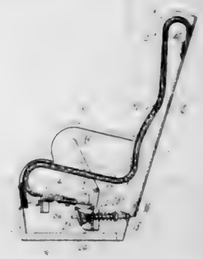


1. In a water fountain for poultry, a hollow tower, a perimetric perch carried by said tower and having a continuous wall inclined downwardly and inwardly to discharge water into the tower and extending laterally of said tower to support the feet of poultry along its rim portion at a spaced distance from the tower, a spacer wall carried by said tower and extending to a height substantially above the outer rim portion of said perch, and an open water tank carried by said spacer wall, said tank positioned so that the water therein is accessible only to poultry standing on the rim portion of the perch.

2,530,923
OXIDATION OF OLEFINIC FATTY ACIDS AND ESTERS THEREOF
Amos Turk, Brooklyn, N. Y., and Paul D. Boone, Washington, D. C.
No Drawing. Application August 10, 1946, Serial No. 689,831
12 Claims. (Cl. 260—406)

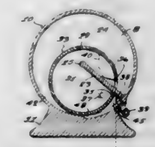
1. In the process of producing oxidized liquid compounds containing an olefine linkage and a member from the group consisting of an alcoholic hydroxyl and ketone, the steps of intimately contacting a gas containing oxygen in the free state with a heated oily liquid of a member of the group consisting of a long chain unsaturated carboxylic acid and its polyhydric esters in the presence of a member of the group consisting of Se, Te and their compounds in not over 10% by weight of said liquid at a temperature below the cracking temperature of the liquid, until a CH_2 group adjacent an olefine linked carbon atom is oxidized to that state wherein it contains a member from the group consisting of an alcoholic hydroxyl and ketone, and thereafter removing the metallic residue and much of its complexes from the oily liquid.

2,530,924
RECLINING CHAIR
John Turner, Boston, Mass.
Application February 27, 1945, Serial No. 579,970
3 Claims. (Cl. 155—116)



1. A body supporting unit comprising a main portion molded to continuous seat and back contours and comprising layers of fabric spaced apart by fibrous material, the whole being impregnated with plastic material set therein, and stiffer end portions secured to said main portion for attachment to front seat and top back frame members, said main portion being formed in independent strips arranged side by side throughout the width of said main portion, each of said strips inwardly of the outside strips being composed of a plurality of narrow separate strip portions for a portion only of its length, said outside strips being of full width.

2,530,925
ROTARY ENGINE OR TURBINE
Jaime Udelman, Maracay, Venezuela
Application October 29, 1948, Serial No. 57,303
4 Claims. (Cl. 103—144)



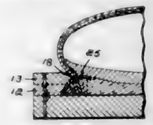
1. A rotary engine or turbine serving as a fluid motor or pump, including a housing having a cylindrical wall and a pair of opposite end walls enclosing a cylindrical chamber, a shaft extending axially through the latter chamber and the end walls, a hollow cylindrical ring or shell of uniform wall thickness and diameter throughout and with both ends open rotatably mounted between the end walls and eccentrically surrounding the shaft out of contact therewith and being substantially tangent to the interior of the cylindrical housing wall at the lower portion thereof, the cylindrical shell having a longitudinal slot along one side extending from a short distance within one end of the shell to within a short distance from the other end thereof, an inlet port in one end wall of the housing extending into the area within the cylindrical shell at one side of said shaft and below the latter, a limited flange valve fixed within the open end of said cylindrical shell adjacent to the inlet port and adjacent to the longitudinal slot in said shell substantially at right angles to said shaft and in effective position to cover said inlet port during part of each

revolution, an outlet port extending in through the cylindrical housing wall at the same side of said shaft as said inlet port, rounded edges upon said cylindrical shell upon both sides of said longitudinal slot, a support for said cylindrical housing wall, and a longitudinally-disposed and substantially flat solid driving vane rigidly fixed upon said shaft and extending longitudinally from one end wall to the other with a sliding fit exclusively exteriorly of the cylindrical shell and projecting radially from the shaft out through said longitudinal slot in the cylindrical shell into sliding contact with the interior of the cylindrical housing wall.

2,530,926
SHORT-WAVE, LONG DISTANCE COMMUNICATION SYSTEM
Raymond Villem, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application June 17, 1947, Serial No. 755,037
In France April 22, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 22, 1964
1 Claim. (Cl. 250—6)

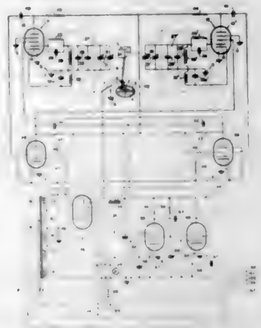
A system of long distance communication on short waves comprising a source of signal wave containing frequencies distributed in a low-frequency spectrum to be transmitted, an amplifier connected with the said source for amplifying the said wave, two filters connected in parallel at the said amplifier and dimensioned for selecting two contiguous bands from the initial spectrum, two frequency changers respectively connected on the one hand with the said filters and on the other hand with a stabilized heterodyne, the two said heterodynes producing frequencies differing from each other and higher than the highest frequency of the initial modulation spectrum and their difference being such that after the two frequency changes the two transposed elementary bands are close to each other, two band-passing filters connected respectively on the one hand with the said frequency changers and on the other hand with a mixer, a pilot frequency generator connected with the said mixer, a single-band transmitter modulated by the outgoing end of the said mixer, a single-band receiver having a first frequency changer connected with a heterodyne subjected to the said pilot frequency and whose outgoing end is connected with two band-passing filters, two frequency changers connected on the one hand to one of the said filters and on the other hand to a stabilized heterodyne, the two last mentioned heterodynes producing frequencies equal to those used for the transposition of the original emission bands, two band-passing filters connected respectively with the said last mentioned frequency changers and feeding in parallel into a utilization line traversed by a wave containing frequencies of the initial modulation spectrum.

2,530,927
TWO-UNIT WELTING
William C. Vizard, Brockton, Mass., assignor to Barbour Welting Company, Brockton, Mass., a copartnership
Application March 26, 1949, Serial No. 83,660
4 Claims. (Cl. 36—78)



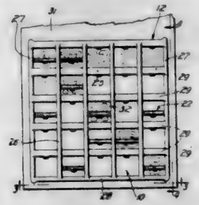
1. Two-unit welting comprising a base unit having a flange of reduced thickness along its inner edge, and a top unit having a grain surface, a longitudinal shoulder extending downwardly from said surface intermediate the edges of said unit, and a longitudinal flesh flange extending laterally beyond said shoulder, the flesh side of the top unit being cemented to one side of the base unit with said flanges in substantial registration, said shoulder receding from the grain surface into the flesh portion of the top unit, and said top unit having a longitudinal groove between said receding shoulder and said flesh flange.

2,530,928
CONTROL APPARATUS
Rudolf F. Wild, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 6, 1945, Serial No. 620,832
4 Claims. (Cl. 178—19)



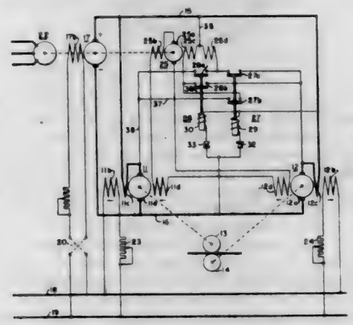
1. Apparatus for selectively transmitting intelligence to one or more of a plurality of receiving stations from a transmitting station including means at said transmitting station to produce electrical currents representative of the intelligence to be transmitted, reproducing mechanism at each of said receiving stations and responsive to a characteristic of said electrical currents to reproduce the transmitted intelligence, a common source of electrical current to supply energizing current to said transmitting and receiving stations, an individual cable connecting each of said receiving stations to said transmitting station, each of said cables providing a transmission circuit for said source of energizing current to the associated receiving station and providing a transmission circuit path for said electrical currents from said transmitting station to the associated receiving station, and switching means associated with each of said cables and operative in one condition of adjustment to disconnect said source of electrical energizing current from both the transmitting and receiving stations and operative in another condition of adjustment to connect said source of electrical energizing current to said transmitting and receiving stations.

2,530,929
BINGO GAME FRAME
James W. Wirfel, Brooklyn, N. Y.
Application July 3, 1948, Serial No. 36,921
5 Claims. (Cl. 116—130)



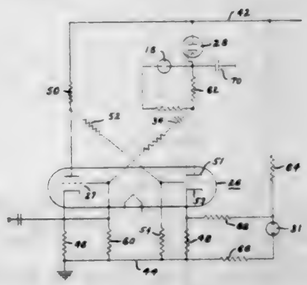
1. A unitary pluralized sectional indicator for bingo game cards and the like of the type having uniform and contiguous marked rectangles with the markings centered within each rectangle, comprising, a frame dimensioned to emborder the playing area of the game card, partition members subdividing said frame into a series of smaller frames conforming in number, spacing and contiguity respectively to the number, spacing and contiguity of the individual playing areas of the game card, a series of shiftable markers, there being one such marker slidably mounted in each of said smaller frames, each marker being movable to two positions in one of which it is effectively concealed by one of the partition members of its associated smaller frame and in the other of which it is astride said smaller frame so as to produce a visible indication, said indicator being a separate structural unit for simple overlaying on the bingo card with which it is to be used.

2,530,930
LOAD BALANCING MOTOR CONTROL SYSTEM
Eugene F. Allbert, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 16, 1949, Serial No. 81,708
3 Claims. (Cl. 318—45)



1. In combination with a pair of reversing motors connected to a common load and having series-type field windings with a common connection therebetween, a load balancing generator connected to supply excitation to the motors in opposite senses and having excitation field windings connected in opposed relation one across the series field winding of each motor so as to be individually responsive to the load on a different one of the motors, and control means individually connecting the excitation field windings across the series field windings of the motors, said control means being operable with reversal of the motors to reverse the connections of one end of each of the excitation field windings to the motors so as to disconnect each of them from the series field winding of the motor to which it is connected and connect it to the series field winding of the other motor.

2,530,931
DETONATION INDICATING APPARATUS
Donald F. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 27, 1945, Serial No. 574,963
5 Claims. (Cl. 177—311)

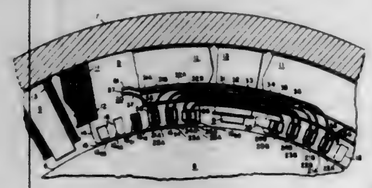


1. An electronic toggle circuit which is self-restoring in the absence of an impulse including vacuum tube means having signal and result groups of elements each including a cathode and an anode and a grid, power supply means connected to each anode and cathode, a single series capacitive connection constituting the only effective electrical connection connecting the anode of the result group with the grid of the signal group, a single resistance connection constituting the only effective electrical connection connecting the grid of said result group with the anode of the signal group, means for normally biasing the grid of said result group beyond plate current cut-off, a gas-filled tube connected to said power supply means and to the anode of the result group to which said capacitor is connected to provide a flash signal in response to the plate current of said anode, and means for applying negative wave pulses to the grid of said signal group to reduce its plate current flow and to momentarily reduce the bias of the grid of said result group to initiate plate current flow therein.

2,530,932
COMPENSATING COIL
Clarence A. Atwell and Richard H. Wagner, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1949, Serial No. 114,763
6 Claims. (Cl. 171—252)

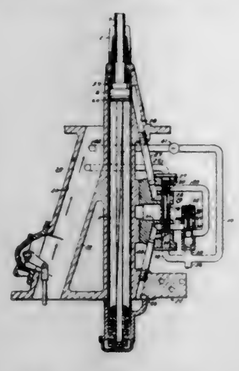
1. A dynamo-electric machine having a stationary field-member characterized by main pole-

pieces having slots in their pole-face portions, and a compensating winding in said pole-face slots, said compensating winding being a concentric winding comprising hairpin-type coils of heavy conductor-material, each hairpin-coil having two straight coil-sides joined at one end by an end-portion, said hairpin-coils being disposed in pairs, with their coil-sides paired in the same pole-face slots, there being only the two paired coil-sides in each slot, coil-to-coil insulation between the two paired coil-sides in each slot,



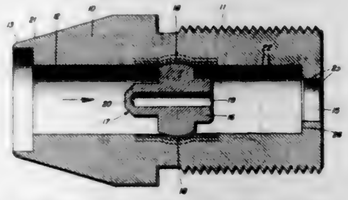
insulation surrounding the pair of coil-sides to provide the ground-insulation in each slot, the ends of the paired coil-sides being separated from each other by considerably more than the thickness of said coil-to-coil insulation in the slots, and connectors joining a second end of one hairpin-coil to a first end of the next adjacent hairpin-coil, so as to serially connect the concentric coils of each pole.

2,530,933
CIRCUIT INTERRUPTER
Benjamin P. Baker, Turtle Creek, and Jack E. Schrameck, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1945, Serial No. 592,410
17 Claims. (Cl. 200—82)



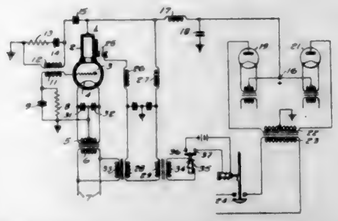
1. In a circuit interrupter of the gas operated type, a movable contact, movable contact operating means including an operating cylinder and a piston in the cylinder mechanically connected to the movable contact, means for admitting compressed gas to said cylinder to operate said piston and for admitting compressed gas to the non-working side of said piston for retarding movement of said piston, and a selector valve for causing the gas pressure on the non-working side of the piston to be substantially the same on a straight opening operation as on a closing-opening operation.

2,530,934
METHOD OF MAKING RECEPTACLES FOR PYROTECHNIC FILLINGS
Alfred P. Barton, United States Navy, Chevy Chase, Md., and Edwin P. Hurd, Detroit, Mich.
Application May 11, 1945, Serial No. 593,168
1 Claim. (Cl. 29—148)



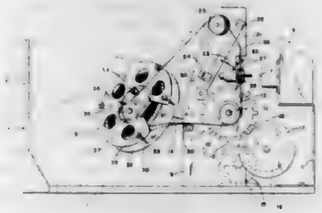
The method of making a receptacle for a pyrotechnic filling, comprising forming a body having a bore of uniform diameter and terminating in an end wall having a central small opening, forming a plug having at one end a stem of substantially the same diameter as the central small opening and having an enlarged central portion the peripheral surface of which is a section of a sphere, the diameter of which is larger than the diameter of the aforesaid bore and the hardness of which is greater than that of the body, and forcing said plug with said stem foremost through the bore until the enlarged central portion engages said end wall and its stem enters the opening, said enlarged central portion during its passage through the bore cold-working and hardening the wall of the bore, the surface reaction of the body causing the bore-wall to spring back into the bore and lock the plug in place.

2,530,935
THERMAL PROTECTIVE DEVICE FOR ELECTRONIC DEVICES
Ashley P. Bock, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 15, 1945, Serial No. 582,880
5 Claims. (Cl. 250—27)



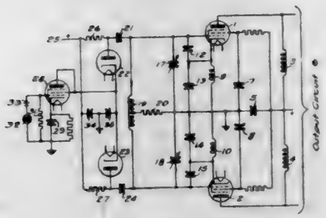
3. In combination with an electrical discharge device having an electrode and certain connections adapted to subject said electrode to a high electrical potential relative to earth, a thermal responsive device having a pair of separable contacts in good thermal relation with said electrode, said separable contacts being connected in series with a first transformer winding and a second transformer winding, a third transformer winding energized with alternating current in inductive relation with said first transformer winding and insulated therefrom for said high potential, and a fourth transformer winding in inductive relation with said second transformer winding and insulated therefrom for said high potential, and circuit control means energized by said fourth transformer winding.

2,530,936
FILM PROJECTING APPARATUS
William F. Bohl, Jr., Detroit, Mich., assignor to Training Devices, Inc., Detroit, Mich., a corporation of Michigan
Application November 10, 1948, Serial No. 59,373
2 Claims. (Cl. 88—18.7)



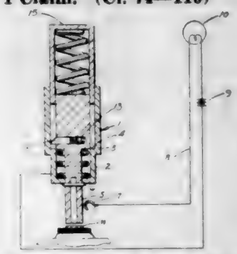
1. A projection apparatus comprising in combination, a frame, a lens assembly, spaced supports for guiding a length of film across the path of the lens, a light source positioned in alinement with the lens assembly, a screen positioned in alinement at the opposite end of the lens assembly, a supply reel interposed between the projection lens and said screen and having its face substantially parallel to a line forming the border of a beam of light extending from the projection lens to said screen, a disc forming the base of the supply reel, said supply reel being non-rotatable, and a plurality of rollers forming the core of the supply reel supported by the disc and adapted to maintain a plurality of convolutions of endless film in position for withdrawal from and feeding back to said reel, and said reel being further positioned that a length of film extending from the outside and lower portion of said reel lies in substantially the same vertical plane as the center of said projected beam.

2,530,937
FREQUENCY MODULATOR
John R. Boykin, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1946, Serial No. 679,103
6 Claims. (Cl. 332—27)



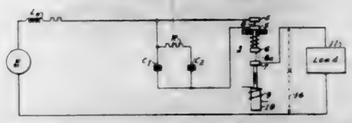
1. In combination, a generator of electrical oscillations, including a frequency determining network, a component having a non-linear, current-voltage characteristic, and an electric discharge device having a control electrode and a plurality of principal electrodes, said component and said principal electrodes being connected in series with each other to said frequency determining network, and terminals for impressing a control potential between said control electrode and one of said principal electrodes.

2,530,938
PLUNGER TYPE PHOTOFLASH SWITCH
Karl Breuning, Flushing, N. Y.
Application February 21, 1946, Serial No. 649,250
1 Claim. (Cl. 74—110)



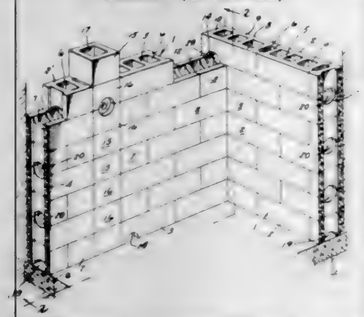
In a photoflash switch device adapted to operate a shutter and simultaneously establish an electrical connection to ignite a flash bulb, a housing comprising a lower sleeve portion, a concentric larger upper sleeve portion, and a shoulder therebetween, a plunger adapted to slide in said lower sleeve portion, a single actuating element attached to the lower end of said plunger and extending through and below said lower sleeve portion, said actuating element having means thereon for completing the electrical circuit of said flash bulb at a point along the line of movement thereof, resilient means tending to force the plunger upwardly from said lower sleeve portion, a push button means mounted for movement along the space between the plunger and the upper sleeve portion of the housing, a second resilient means urging the plunger and the push button away from each other, said plunger containing an opening having a closed end extending perpendicular to the direction of movement thereof, a detent adapted to slide in said opening, a spring fitting within said opening adjacent the closed end and adapted to urge the detent away from the plunger, the length of the opening, the detent and the spring being so related that the detent may be pressed against the action of the spring to a position entirely within the opening, said detent in its outwardly extending position adapted to catch on said shoulder of the housing to lock the plunger against downward movement, means on the push button means adapted to release the detent from engagement with said shoulder when said push button has been pressed a predetermined distance against the action of said second resilient means.

2,530,939
CIRCUIT INTERRUPTER WITH ARC EXTINGUISHING SHUNT
Thomas E. Browne, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1947, Serial No. 776,513
9 Claims. (Cl. 175—294)



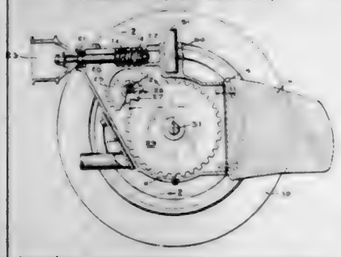
1. A circuit interrupter including means establishing an arc, a capacitor connected directly in parallel with said means, and an impedance branch shunting the capacitor including a serially related resistance and a capacitor of greater capacitance than the first said capacitor.

2,530,940
WALL CONSTRUCTION
John Dahlin, Minneapolis, Minn.
Application May 28, 1947, Serial No. 750,979
1 Claim. (Cl. 98—31)



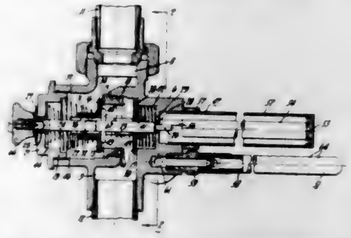
A building wall circumscribing a given area and formed from tiers of blocks, said wall being made up primarily of blocks having laterally-opposed longitudinally-extending side walls joined by vertically-extending longitudinally-spaced partitions, said side walls of the partitions defining vertical passages therethrough, said partitions at one end being flush with the adjacent edges of the side walls and at their opposite ends being formed with segmental notches, said blocks being positioned with respect to each other in said wall to provide horizontally-extended passages between alternate pairs of tiers and vertically-extended wall passages which communicate with said horizontally-extended passages, a chimney flue in said building wall extending upwardly from one of the lowermost tiers of said wall and having an opening in the intermediate portion thereof adapted to receive the exhaust stack of a furnace, said chimney flue having a lateral opening at one side communicating with the inter-connecting vertical and horizontal passages in said wall, said wall being provided with a lateral opening adjacent its base communicating with atmosphere within the area defined by the wall, said opening being located on the side of the flue opposite the opening within the side of the flue connecting with the inter-connecting vertical and horizontal passages in the wall.

2,530,941
AXLE MOUNTED POWER TRANSMISSION AND CASING FOR DRIVE WHEELS
Philip S. Devirian, Jr., San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application January 27, 1947, Serial No. 724,671
3 Claims. (Cl. 180—42)



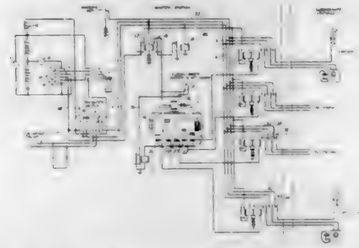
1. A tractor arrangement comprising a flat transmission casing having a narrow top wall, a narrow front wall and a pair of side walls, a horizontally disposed drive shaft protruding into said casing through said front wall and extending longitudinally of said casing closely below said top wall thereof, a worm firmly mounted upon said drive shaft within said casing, a first axle disposed below said worm and extending transversely of said drive shaft, a worm gear in mesh with said worm mounted upon said first axle, a second transverse axle disposed below the level of and in rearwardly displaced relation to said first axle with its opposite ends protruding through the side walls of said casing, said drive shaft being arranged to terminate within said casing at a point in front of a vertical plane containing said second axle, means comprising a toothed rotary element firmly mounted upon said second axle for transmitting the rotary movement of said worm gear to said second axle, means for mounting a steering trunnion in said casing comprising a cavity formed in the said top wall of said casing substantially in vertical alignment with said second axle and extending downwardly below the level of said drive shaft, and traction wheels mounted upon the protruding ends of said second axle for rotation therewith and closely adjacent to the side walls of said casing.

2,530,942
TEMPERATURE RESPONSIVE SAFETY VALVE FOR FUEL BURNER SYSTEMS
Donald F. Drow, Los Angeles, Calif., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, a corporation of Delaware
Application October 31, 1947, Serial No. 783,284
6 Claims. (Cl. 158—117.1)



2. In a main and pilot burner system a temperature responsive safety valve comprising, a valve body formed with an interior gas passage communicating at its opposite ends with inlet and discharge openings and formed interiorly with a pair of annular valve seats and valve chambers adjacent said seats, first and second valves mounted in said chambers respectively and movable between open position spaced from said seats and closed position engaging said seats, valve supporting and actuating means carried by said body and composed of first and second slidably attached sections having a lost motion connection therebetween, each of said sections being formed with an abutment means, said first valve being slidably carried in sealed engagement on said first section and engageable with said abutment means on said second section, said second valve being slidably carried in sealed engagement on said second section and engageable with said abutment means on said first section, first and second springs engaging said valves respectively and normally urging them to closed position, a third spring connected to said first section and normally displacing said second valve to an open position against the action of its closing spring, said first section extending from said body for manual engagement and displacement against the action of said first and third springs thereby permitting the closure of said second valve and causing the opening of said first valve, said lost motion connection being such as to produce on said last named displacement a closing of said second valve prior to the opening of said first valve, and a temperature responsive catch engageable with said second section upon manual displacement of said first section as aforesaid and in caught position functioning to hold said first valve in open position, said lost motion connection being constructed to permit a return of said first section upon manual release under the action of said third spring and a corresponding opening of said second valve against the action of its closing spring.

2,530,943
INTERCOMMUNICATING TELEPHONE SYSTEM
George H. Duhnkrack, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1947, Serial No. 758,905
5 Claims. (Cl. 179—40)

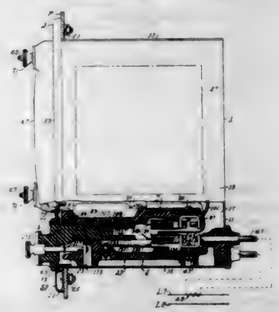


1. In an intercommunicating telephone system, a master station, a plurality of subordinate stations, a dial at the master station, a selector switch, means responsive to successive impulses transmitted by said dial to advance said switch step by step to successively close its contacts and to stop on the contact closed by the last impulse transmitted, a relay individual to each subordinate station and having a winding connected in an energizing circuit including an individual contact of said selector switch, said relays having a slow-operating characteristic such that the advance of said switch over its contacts preceding the last is ineffective to operate the relays connected to said preceding contacts but so adjusted that the relay whose energizing circuit includes the last closed contact of the switch will operate, a locking path common to all of said relays prepared when the telephone at said master station is taken for use, and means responsive to operation of any one of said relays to complete a holding circuit for itself including said locking path, means responsive to operation of any one of said relays to connect an individual one of said subordinate stations to the telephone at the master station, and delayed action means controlled by the energizing circuit of any of said relays to restore said switch to normal following the operation of said relay.

2,530,944
GREASE GUN LOADING DEVICE
Carl I. Cederholm and Carl E. Cederholm, South Worthington, Mass.
Application September 13, 1948, Serial No. 49,048
1 Claim. (Cl. 222—117)

A device for discharging grease into the open end of a hollow cylindrical grease gun cylinder comprising in combination, an elongated hollow cylindrical body for a charge of grease formed from cardboard and having an inwardly extending annular rim at the rear end thereof, a plunger in said body inwardly of and held against movement outwardly of the rear end of said body by said rim and being slidable forwardly in said body for discharging grease at the forward end thereof, a metallic tubular discharge member secured to the forward end of the body having outer and inner longitudinally spaced neck portions forwardly of said end disposed concentrically relative to the longitudinal axis of said body, said inner neck portion having a diameter less than that of the body to provide a shoulder rearwardly thereof, and said outer neck portion having a diameter less than that of the inner neck portion to provide a shoulder rearwardly thereof, said neck portions adapted for insertion into the open end of a grease gun with a shoulder rearwardly thereof in abutment with the end of said gun for discharge of grease from the body into the gun by forward movement of said plunger, and a cap for removably fitting said outer neck portion.

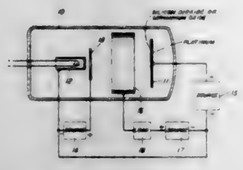
2,530,945
ELECTRICAL INSTRUMENT ENCLOSURE
James F. Chapman, Madison, and Kolman Riess, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 10, 1948, Serial No. 1,585
10 Claims. (Cl. 175—222)



1. In an electrical instrument unit, a casing having an opening for receiving an electrical instrument and switch device, a cover for said casing having a periphery substantially coextensive with the periphery of the casing about said opening, said cover having an opening therein, and a switch device comprising contact means secured to the cover for removal therewith from

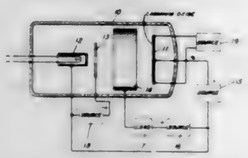
the casing, said contact means being positioned substantially within the enclosure formed by the cover and the casing, contact means positioned within, and secured to, the casing, and an electroconductive bridging device insertable and removable through the opening in the cover for electroconductively connecting and disconnecting the contact means, said bridging device when in inserted position having a portion closing the opening in the cover for completing with the casing an enclosure for the electrical instrument and switch device.

2,530,946
SECONDARY ELECTRON EMITTER
Leonard E. Cheesman, Clifton, and Hallam E. Mendenhall, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1949, Serial No. 85,161
18 Claims. (Cl. 250—174)



8. A secondary electron emissive target for electron discharge devices comprising a substantially pure metal base having therein a fraction of one per cent of impurity, and a film on said base of an oxide selected from the group consisting of silicon dioxide and germanium dioxide.

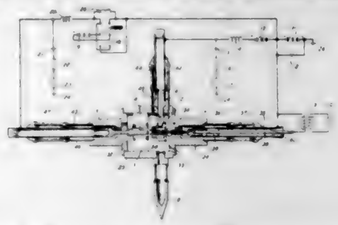
2,530,947
SECONDARY ELECTRON EMITTER
Leonard E. Cheesman, Clifton, and Hallam E. Mendenhall, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1949, Serial No. 85,162
7 Claims. (Cl. 250—174)



5. A secondary electron emissive target for electron discharge devices comprising a base having thereon a film of cadmium oxide.

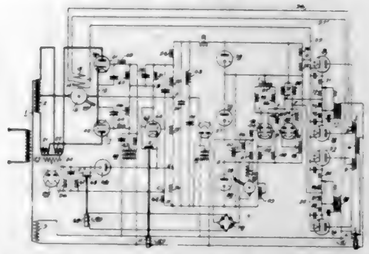
2,530,948
ELECTRON INJECTION SPACE DISCHARGE DEVICE
Albert M. Clogston, Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 21, 1948, Serial No. 55,681
7 Claims. (Cl. 332—5)

1. A space discharge device comprising a cathode and a central control electrode non-emissive of secondary electrons coaxially mounted and spaced apart from each other longitudinally, a hollow control anode surrounding said



cathode, and a main anode surrounding said central control electrode.

2,530,949
ELECTRONIC SYSTEM FOR ENERGIZING DIRECT-CURRENT MOTORS FROM AN ALTERNATING CURRENT SUPPLY
Walter W. Cotner, Ithaca, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 10, 1948, Serial No. 43,446
21 Claims. (Cl. 318—260)



1. A drive system, comprising a direct-current motor having an armature and two field windings of mutually opposing field polarities, alternating-current supply means, a rectifier connecting said armature to said means, two controllable electronic field rectifiers connecting said means to said respective windings and having a common cathode lead and respective grid circuits connected with said lead, and control means for providing variable grid voltage, said grid circuits being connected to said control means to respond in mutually inverse relation to said voltage whereby one of said field rectifiers, dependent upon the direction of departure of said voltage from a given value, is controlled to excite the appertaining one field winding in accordance with the magnitude of said departure.

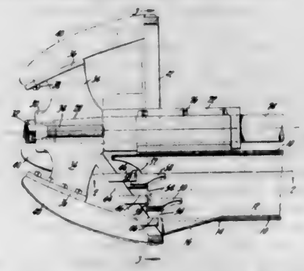
2,530,950
COLLAPSIBLE CARDBOARD DISPLAY DEVICE
Ludwig Ebert, New York, N. Y., and Robert Benchley, Jr., New Canaan, Conn., assignors to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application November 17, 1948, Serial No. 60,514
2 Claims. (Cl. 40—124.1)

1. A collapsible cardboard display device comprising an upright poster, a pair of supporting panels hinged to said poster and diverging downwards, a pair of nether bracing panels hinged respectively to said supporting panels and converging upwards, said bracing panels having upper edges which are joined together along a hinge line and provided with a cut-out extending

along part of said hinge line, and a poster extension projecting downwardly through said cut-out and provided with an upwardly-facing abutment underlying the joined bracing panel edges

to limit the extent of spread of said bracing panels, said poster extension having an upper margin which overlaps the poster and is rigidly secured thereto above the line along which said supporting panels are hinged to said poster.

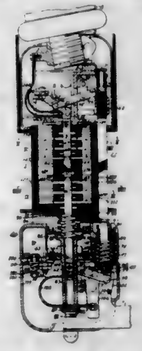
2,530,951
OBSTRUCTION CLEARING DEVICE FOR SUCTION DREDGES
Paul M. Enright, Oakland, Calif., assignor to Hydraulic Dredging Company, Ltd., Oakland, Calif., a corporation of Delaware
Application September 6, 1947, Serial No. 772,543
7 Claims. (Cl. 37—67)



1. For a hydraulic dredge, or the like, having a suction pipe and a cutter head in spaced relation to the mouth of said pipe, the combination of at least one member carried at the mouth of the suction pipe transversely thereof, said member in conjunction with the wall of the pipe being adapted to divide the areal space of the pipe mouth into a plurality of space segments, and means carried by said cutter head and adapted to sweep within said space segments upon the rotation of said cutter head.

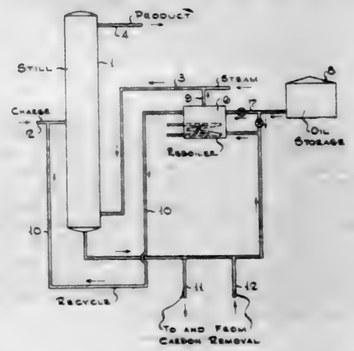
2,530,952
CIRCUIT INTERRUPTER
Francis J. Fry, Champaign, Ill., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 16, 1947, Serial No. 741,865
3 Claims. (Cl. 200—150)

2. In a circuit interrupter of the liquid break type, an arc extinguishing unit immersed in an arc extinguishing liquid, a relatively stationary intermediate contact positioned intermediate the ends of the unit, a pressure-generating multi-orifice chamber disposed adjacent one end of the intermediate contact, a rod-shaped pressure-generating contact movable through the orifices into contacting engagement with the intermediate contact, an interrupting multi-orifice chamber disposed adjacent the other end of the intermediate contact, a rod-shaped interrupting contact movable through the orifices into contacting engagement with the intermediate contact, means synchronizing the motion of both contacts so that one contact clears the first orifice of its associated chamber simultaneously with the other contact clearing the first orifice of its associ-



ated chamber, piston means operative to sequentially send liquid through the pressure-generating multi-orifice chamber and only then on to the interrupting multi-orifice chamber only when the contacts by valve action have uncovered the first orifice in each multi-orifice chamber, and delaying means for the piston means including a check valve biased to the open position and suitably dimensioned to allow a particular displacement of liquid before it is closed.

2,530,953
SULFURIC ACID RECOVERY
Mack C. Fuqua, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 1, 1946, Serial No. 707,221
3 Claims. (Cl. 23—173)



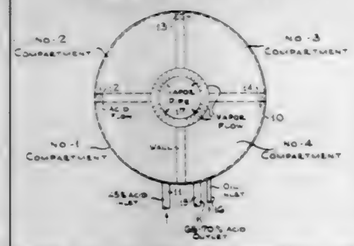
1. A process for the reconcentration of a spent sulfuric acid resulting from acid treatment of hydrocarbons which comprises heating the said spent sulfuric acid in the presence of a white oil having a gravity of approximately 28° A. P. I., and having a sufficiently high flash point to prevent complete volatilization during the heating, said white oil being present in a quantity that represents a small fraction of the said sulfuric acid, and recovering a reconcentrated acid.

2,530,954

REDUCING FOAM IN ACID CONCENTRATORS

Charles J. Robrecht, Short Hills, and Charles W. Smith, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 1, 1947, Serial No. 777,276
1 Claim. (Cl. 23—173)



Improved process for concentrating sulfuric acid secured in the manufacture of alcohols from olefins which comprises introducing the acid into a concentrator comprising four stages, passing the acid successively through the four stages and gradually increasing the temperature in the respective stages, adding from about .03 to 15 gallons of oil per thousand gallons of acid to the final stage, said oil being characterized by being a petroleum oil having gravity in the range from about 26 to 35° A. P. I. and having dissolved therein from about 25 to 200 ccs. of a fatty acid, whereby foaming of the acid is prevented, and withdrawing concentrated acid from the fourth stage.

2,530,955

INSTRUMENT FOR MEASURING, INTERPOLATING, AND THE LIKE

Heinz Joseph Gerber, Hartford, Conn., assignor to The Gerber Scientific Instrument Company, Hartford, Conn., a corporation of Connecticut

Application May 25, 1948, Serial No. 29,114
44 Claims. (Cl. 235—61)

1. The combination in an instrument of the class described, of a base, a member movable along the base, and a coil spring which has its convolutions uniformly spaced and which is connected at one end with the said base and at the opposite end with the said member so that the spacings between all of the convolutions are uniformly varied when the spring length is varied by movement of the member along the base, the several convolutions of the spring being triangular in shape to provide aligned sharp corner portions constituting graduations.

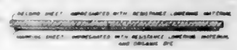
2,530,956

ELECTROGRAPHIC RECORDING

Robert B. Gibney, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 6, 1946, Serial No. 688,739
7 Claims. (Cl. 204—2)

1. An electrographic recording medium comprising two essentially dry paper sheets in face to face contact, each impregnated with a mixture of acetamide and formamide in the proportions of about 100 parts of the former to 10 parts of the latter, one of said sheets being also im-



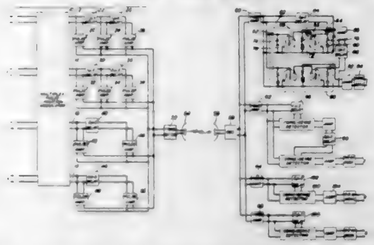
pregnated with the dye, Victoria blue, in the proportion of about 2 parts of dye per 100 parts of acetamide.

2,530,957

TIME DIVISION SYSTEM FOR MODULATED PULSE TRANSMISSION

George W. Gilman, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 5, 1947, Serial No. 739,719
5 Claims. (Cl. 179—15)



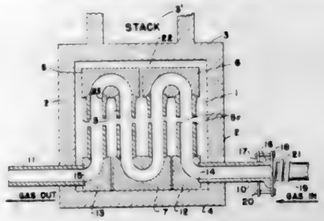
2. A receiver for selectively receiving pulses transmitted as recurrent sequences each comprising a plurality of pulses in accordance with an assigned time code determined by the number and spacing of the pulses, means for subjecting the pulses of each transmitted sequence to a delay corresponding to the first time interval of said code, a coincidence detector for comparing the delayed and undelayed sequences and producing a pulse whenever pulses of said delayed and undelayed sequence coincide, coincidence detectors for each succeeding time interval of said code, means for delaying the produced pulses from the preceding coincidence detector in each case by an amount corresponding to the next time interval of said code, means for applying said delayed pulses to the next coincidence detector for comparison with the undelayed pulse sequence, and means for utilizing the pulses produced by the last of said coincidence detectors.

2,530,958

APPARATUS FOR HEATING FLUIDS

David H. Greene, Los Angeles, Calif., assignor to Danciger Oil & Refining Company, Fort Worth, Tex., a corporation of Texas

Application April 29, 1947, Serial No. 744,563
5 Claims. (Cl. 263—20)



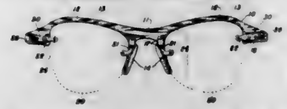
5. An apparatus for heating fluids comprising a furnace, a continuous coil within the furnace through which fluids to be heated are passed, the coil including a series of refractory, ceramic lower return bends mounted directly on the floor of the furnace, a series of upper refractory, ceramic return bends spaced from the roof of the furnace, a series of vertically positioned, refractory, ceramic tubes connecting the upper and lower return bends, the coil being characterized by a spherically concave-convex joint between the upper return bends and the tubes, means including an expansion joint to connect one end of the coil to an inlet line exteriorly of the furnace and means to connect an outlet line to the other end of the coil.

2,530,959

SPECTACLE MOUNTING

James J. Gullen, Rochester, N. Y., assignor to Rochester Optical Manufacturing Co., Inc., Rochester, N. Y., a corporation of New York

Application February 28, 1948, Serial No. 12,050
4 Claims. (Cl. 88—41)



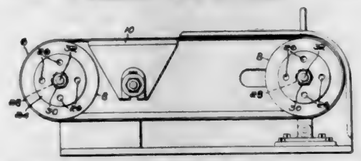
1. In a spectacle mounting, the combination of a frame comprising a non-metallic bridge and a pair of non-metallic semi-rims integral therewith, each semi-rim being internally grooved to receive a portion of the periphery of a lens and having a nasal, a top, and a temporal portion, a metallic hinge-piece at the rear of the temporal portion of each semi-rim and adapted to have one of the temples of the spectacle secured thereto, a rigid metallic strap secured to each hinge-piece and projecting laterally thereof and adapted to have a lens secured to its projecting end, an ornamental metal plate mounted at the front of the temporal portion of each semi-rim in axial alignment with the hinge-piece of that semi-rim, and metallic pins extending through each semi-rim and securing the associated plate, metallic strap, and aligned hinge-piece of that semi-rim together.

2,530,960

TRAVELING BAND ABRADING MACHINE

Elisha W. Hall, Scituate, Mass.

Application February 20, 1947, Serial No. 729,685
4 Claims. (Cl. 51—135)



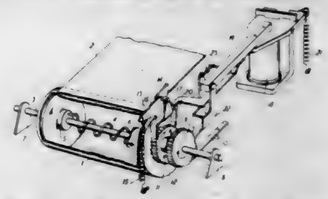
4. A belt wheel for supporting an abrading belt and in operation serving to supply cooling air to the inner surface of the belt, the wheel having a cylindrical form and comprising a number of annuli of homogeneous yielding rubber secured together in side by side contacting relation, the inner circumferences of the annuli defining a continuous cylindrical bearing surface to snugly receive a spindle, sides of certain of the annuli having recesses extending from the exterior periphery inwardly for a fraction of the radial depth of the annuli and providing ports distributed about the exterior periphery of the wheel, which periphery is otherwise continuous and uniform, sides of certain annuli inwardly of the side faces of the wheel being also recessed circumferentially between the inner and outer circumferences to connect the inwardly extending recesses at a location beneath the exterior periphery of the wheel, and openings extending from the side faces of the wheel between the inner and outer circumferences intersecting the circumferential recesses.

2,530,961

STEPPING DEVICE

Harry Hansen, Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 19, 1947, Serial No. 762,093
1 Claim. (Cl. 271—2.4)



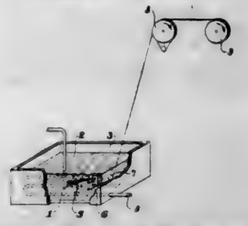
A device for feeding a record in discrete steps, comprising in combination, a record-feed drum rotatively mounted on a rotatable shaft, a torsion spring one end of which is fixed to said drum and the other end of which is fixed to said shaft, said spring being pretensioned to urge said drum to rotate in one direction and said shaft to rotate in the opposite direction, a first ratchet wheel fixed to said shaft, a second ratchet wheel fixed to said drum, said second ratchet wheel having the same number of teeth as said first ratchet wheel and oppositely disposed in relation thereto, a retaining pawl and an operating pawl each in operative engagement with said first ratchet wheel, a pivoted member having two pawls adapted to engage the teeth of said second ratchet wheel alternately, and a single electromagnet for actuating said operating pawl to rotate said first ratchet wheel and said shaft fixed thereto one tooth of said first ratchet wheel thereby to increase the tension in said spring, and for simultaneously actuating said pivoted member to permit said second ratchet wheel and said drum fixed thereto to be rotated by said spring one tooth of said second ratchet wheel in two discrete steps.

2,530,962

FORMATION OF SHAPED ARTICLES FROM ACRYLONITRILE POLYMERS

Weston Andrew Hare, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

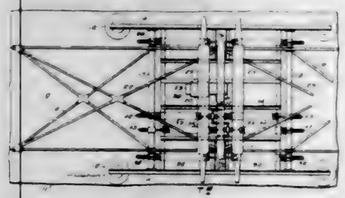
Application September 24, 1948, Serial No. 50,964
11 Claims. (Cl. 18—54)



3. A process for wet spinning of acrylonitrile yarn which comprises extruding a solution, in a volatile organic solvent of an acrylonitrile poly-

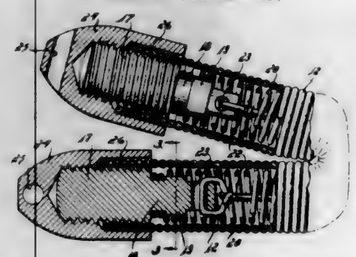
mer containing a major portion of acrylonitrile, through a shaped orifice into a spinning bath comprising an aqueous, at least 12% (by weight) solution of a thiosulfate heated to a temperature of at least 70° C., passing the yarn through said bath until it is substantially completely coagulated and stretching the yarn during its travel through the bath at least 100%.

2,530,963
CURRENT COLLECTOR OF THE PANTOGRAPH TYPE
Robert O. Heinemann, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 12, 1946, Serial No. 640,842
9 Claims. (Cl. 191—70)



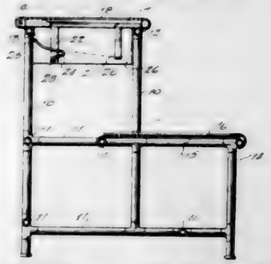
9. The combination in a pantograph current collector, of a collector shoe, a pantograph frame supporting the shoe mounted on a pair of oppositely rotatable spaced apart shafts, a pair of balancing springs connected to said shafts operable to balance the weight of the pantograph frame, latch means normally biased to a frame engaging position to lock the frame in a down position, booster means operable to assist the pantograph to rise, a crankshaft rotatably positioned intermediate said shafts having a pair of oppositely disposed crankpins and cam means actuating the latch means and the booster means in timed relation, and a raising spring and a lowering spring connected to each crankpin in opposed relation, said raising and lowering spring being connected to different ones of the shafts to alternately raise or lower the frame, as the crankshaft is rotated in the same direction.

2,530,964
WRIST BAND
Theodore Hirsch, Detroit, Mich.
Application December 13, 1946, Serial No. 715,950
3 Claims. (Cl. 63—11)



2. A wrist band of the class described comprising a wrist encircling outer coil; an attachment member connected to the opposite ends of said coil; an inner coil positioned within said outer coil and spaced therefrom and under slight compression; means on said attachment means for engaging said inner coil; and a non-elastic cord connected to the attachment means and projected through said inner coil.

2,530,965
BEDPAN COMMODE
William S. Horn, Fort Worth, Tex.
Application February 10, 1948, Serial No. 7,400
3 Claims. (Cl. 155—31)

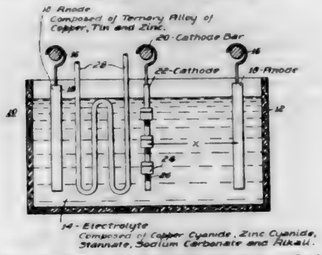


1. In a portable commode for invalids, or the like, in combination, a supporting stand of suitable bed height having a foot support of lesser height formed therewith, an open seat arranged on said stand and a hinged cover for said seat, the said cover providing a bed-side table, supporting means for a bed pan arranged beneath said seat comprising a bracket suspended therebelow, a rod spaced rearwardly from said bracket and suspended from said seat, and a tensioned clamp operatively secured to said rod for removably securing a bed pan beneath said seat.

2,530,966
WELL COMPLETION APPARATUS
Theodore A. Huber, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 17, 1943, Serial No. 483,407
1 Claim. (Cl. 166—5)

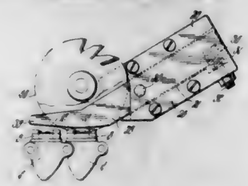
A screen for an oil well carrying a plurality of laterally disposed gun barrels each adapted to discharge a bullet from its outer end laterally from said screen and each containing a firing chamber, the inner end of each barrel being sealed whereby the firing of the bullet does not leave an opening for the entry of sand and debris into said screen, a bullet in each barrel arranged for projection outwardly ahead of said firing chamber, a firing filament in each of said firing chambers, means for connecting said screen to a string of tubing, and an electrical contact carried by the upper end of said screen, electrically connected to each of said firing filaments and arranged for contact with an electrical terminal lowered through said tubing.

2,530,967
BRIGHT ALLOY PLATING
George W. Jernstedt, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1947, Serial No. 772,977
2 Claims. (Cl. 204—44)



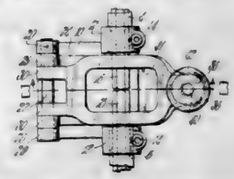
1. The method of electrodepositing bright silvery corrosion-resisting coatings of a ternary alloy composed of from 50% to 75% copper, 15% to 30% tin and 5% to 20% zinc upon a member which comprises making the member the cathode in an aqueous electrolyte comprising essentially 0.5 to 5 oz. of free cyanide per gallon, 0.2 to 0.5 oz. of copper per gallon, 0.05 to 0.2 oz. of tin per gallon, 0.1 to 0.5 oz. of zinc per gallon, alkali metal hydroxide and 2 to 12 oz. of alkali metal carbonate per gallon, the electrolyte being maintained at a temperature of between approximately 140° F. and 160° F. and at a pH of from 12 to 13.5 the anode comprising a ternary alloy composed of from 50% to 75% copper, 15% to 35% tin and 5% to 20% zinc and passing electrical current through the electrolyte at a potential proportional to the distance between the anode and the cathode, the potential being from 3 to 5 volts between the anode and cathode when they are spaced 6 to 8 inches apart, and the voltage being increased or decreased one volt for each 4 inches increase or decrease, respectively, in the spacing between anode and cathode.

2,530,968
APPARATUS FOR MAKING WRENCH NUTS
Robert A. Johnson, Longmeadow, Mass.; Effie B. Johnson, executrix of said Robert A. Johnson, deceased, assignor to Westfield Metal Products Co., Inc., a corporation of Massachusetts
Application June 26, 1947, Serial No. 757,115
1 Claim. (Cl. 10—82)



Apparatus for removing opposite sides of nut blanks projecting from opposite sides of blank holders comprising in combination, a support having a pair of axially spaced cutters rotatable on a horizontal axis therein for operating on opposite sides of nut blanks, a bracket secured to said support at one side of said cutters and extending away therefrom, said bracket provided with an elongated slot in a forward face and disposed transversely relative to the axis of rotation of said cutters, an elongated plate secured to the forward face of said bracket and closing said slot, a hold-down disposed in said slot and pivotal connections between said bracket and hold-down for swinging of said hold-down up and down in opposite directions, one end portion of said hold-down extending from one end of said slot and bracket disposed between said cutters extending below the axis of rotation thereof and beyond a vertical plane passing through said axis adapted to engage upper sides of nut blanks, said slot and hold-down arranged to limit swinging movements of said hold-down in opposite directions, and spring means disposed in said slot urging the opposite end of said hold-down upwardly for engagement of said one end thereof with nut blanks.

2,530,969
WELDING CLAMP
Robert A. Johnson, Longmeadow, Mass.; Effie B. Johnson, executrix of said Robert A. Johnson, deceased, assignor to Westfield Metal Products Co., Inc., a corporation of Massachusetts
Application July 21, 1948, Serial No. 39,864
2 Claims. (Cl. 113—102)

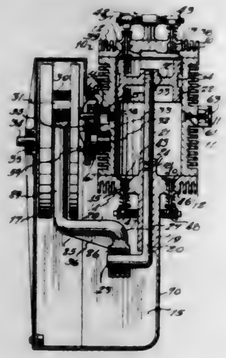


2. Apparatus for holding adjacent ends of aligned bars of stock in bar supporting tubes in adjacency for welding comprising in combination, a support having spaced bosses provided with aligned openings therein, means for securing said tubes in said openings with adjacent ends in spaced relation to expose therebetween adjacent inner ends of bars to be welded, upper and lower clamp members having rear ends pivotally connected to said support at one side of the longitudinal axis of said tubes for swinging movements between said bosses and to and from open and closed positions, upper spaced apart jaw members carried by the upper clamp member and lower jaw members carried by the lower clamp member cooperating therewith to clamp adjacent inner ends of bars in said tubes when the clamp members are in closed position, and engageable means for securing the clamp members in closed position disposed at forward ends thereof, said jaw members being disposed on said clamp members so as to be adjacent the inner sides of said bosses when the clamp members are in closed position, said clamp members being provided with openings disposed between the jaw members thereof.

2,530,970
DOUBLE-ACTING INTERNAL-COMBUSTION ENGINE
Robert H. Jones, Jr., Lubbock, Tex.
Application May 23, 1949, Serial No. 94,832
5 Claims. (Cl. 123—63)

1. In a reciprocating type of gasoline engine, in combination, a cylinder having intake and exhaust valves in each end, a piston in said cylinder adapted to be actuated from either end, a rod connected to said piston and slidably supported in a bearing forming part of one head of said cylinder, the said rod having a right-angular pin on its end opposite said piston, a crank connected to said pin and having a por-

tion offset at right angles between its ends, the opposite end of said crank having an operative connection to a crank wheel, a crank case enclosing said crank and said wheel, valve means



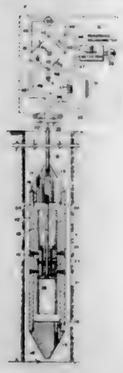
providing for lubricating said cylinder from said crank case, and means actuated by said wheel operating said intake and exhaust valves and said lubricating valves.

2,530,971

ACOUSTIC WELL LOGGING APPARATUS

Clare H. Kean, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application July 26, 1947, Serial No. 763,940
6 Claims. (Cl. 181—5)



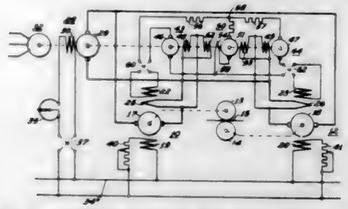
1. An improved apparatus for acoustic impedance logging of formations along the liquid-filled portion of a borehole in the earth comprising, in combination, a transducer of acoustic wave energy of substantially a selected frequency having such a value that the wavelength of said wave energy in the borehole liquid is longer than the diameter of the borehole, said transducer comprising an elongated element constituting a wave generating surface having a greater length than said wavelength and electromagnetic means operatively associated with said element for causing the latter to vibrate in extensional mode at said frequency, a source of electric energy electrically connected to said electromagnetic means for exciting the latter at said frequency, means for moving said transducer along the formations in the borehole, and means for recording variations in electric energy supplied to said electromagnetic means as the transducer is moved along the formations.

2,530,972

LOAD BALANCING SYSTEM FOR DYNAMOELECTRIC MACHINES

Alonzo F. Kenyon, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 23, 1947, Serial No. 781,639
9 Claims. (Cl. 318—100)



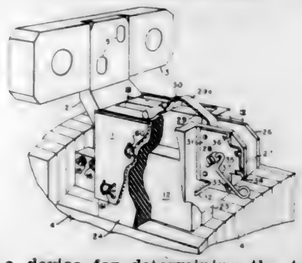
1. In a control system for a pair of motors having a driving connection with a common load, said motors having shunt and series type field windings, circuit means supplying electrical energy to the shunt type field windings, additional circuit means supplying electrical energy to the series type field windings in accordance with the loads on the motors, circuit means connecting the field windings of one of said type in a loop circuit, and a load balancing generator responsive differentially to the loads on the motors, said generator being connected across the loop circuit in shunt circuit relation with said field windings of one of said types for varying the energization thereof in opposite senses balancing the loads on the motors.

2,530,973

TEMPERATURE MEASURING DEVICE

William A. Kirsch, East McKeesport, and James G. Wilhite, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 30, 1948, Serial No. 52,044
17 Claims. (Cl. 73—351)



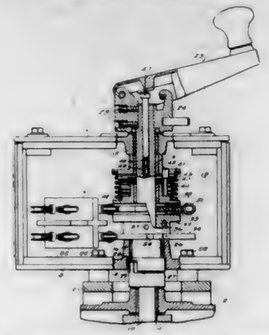
1. In a device for determining the temperature of a relatively hot body normally, when in use, moving with reference to a base, in combination, a base, a block of material, comprising an electrical insulator but having the property of being a good conductor of heat, mounted on the base so that one surface is in close, almost contacting relation to the body, means of similar material to the said block disposed on the base to contact the body and to be in good heat conducting relation to the block, a thermistor disposed in said block to thus be subject to the changes in temperature of the body, and electric circuit means including means for energizing said thermistor and meter means for indicating the changes in temperature of the body as sensed by the thermistor.

2,530,974

SAFETY HANDLE FOR CONTROLLERS

Herman C. Krapf and Paul L. Vollmer, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 18, 1947, Serial No. 792,380
7 Claims. (Cl. 200—18)



1. In a controller, in combination, a main shaft, an operating shaft disposed coaxially with the main shaft, a handle pivotally mounted on the operating shaft and movable in a vertical plane and in a horizontal plane, a lost motion device for connecting the operating shaft to the main shaft, a friction clutch actuated by movement of the handle in a vertical plane, a cam driven by the operating shaft through the friction clutch, switching means actuated by said cam prior to rotation of the main shaft by the handle through the lost motion device, an additional cam secured to the operating shaft, and additional switching means actuated by said additional cam independently of the friction clutch.

2,530,975

NECKTIE SCARF

Glenn E. Lewis, Kansas City, Mo.

Application August 23, 1948, Serial No. 45,650
5 Claims. (Cl. 2—150)

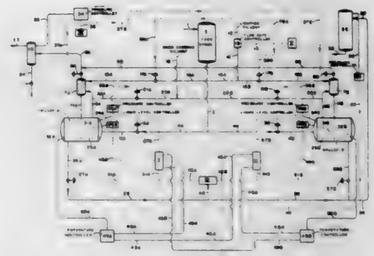
1. A necktie scarf device comprising a frame having upwardly diverging wings adapted to extend partly around the neck band of the collar, a pair of pins extending downwardly from the wings and having sharpened points adapted to engage the underside of the points of the collar, a cross-bar on the frame supporting the intermediate portion of an elongated scarf with both ends of the latter suspended therefrom, a discrete fabric panel embracing the frame and scarf to simulate a knot, and means for detachably fastening said fabric panel to said frame.

2,530,976

METHOD OF CHILLING MIXTURES

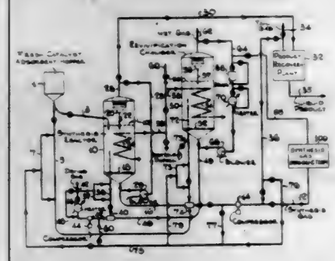
John R. Martin, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application September 12, 1947, Serial No. 773,667
3 Claims. (Cl. 62—170)



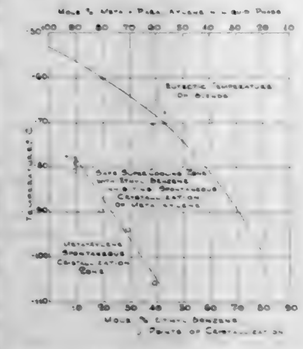
1. In the method of chilling a liquid mixture comprising a normally liquid mixture and a volatile diluent in a plurality of chilling zones in cycle operation in which each chilling cycle includes the steps of charging said mixture at high pressure to a chilling zone, chilling said mixture to a predetermined low temperature by evaporating diluent therefrom to a low pressure zone while charging liquid diluent to said mixture, discharging chilled mixture from said chilling zone to an accumulation zone, and in which, in any two of said zones comprising first and second chilling zones, a portion of said liquid mixture is charged to a first chilling zone while chilling another portion of liquid mixture in a second chilling zone, the improvement which comprises the steps of automatically initiating the charge of liquid mixture to said first chilling zone when said liquid mixture in said second chilling zone reaches a first temperature substantially above said predetermined low temperature, charging said liquid mixture to said first zone at a rate responsive to changes in liquid level occurring in said first zone, automatically initiating the evaporation of diluent from said first zone and the discharge of chilled mixture from said second zone in response to the liquid mixture in said second zone reaching said predetermined low temperature, evaporating the diluent from said first zone at a rate responsive to changes in pressure occurring in said low pressure zone, the rate of evaporation being caused to increase in response to a decrease in pressure in the low pressure zone and being caused to decrease in response to an increase in pressure in the low pressure zone and automatically discharging said chilled mixture from said second zone to said accumulation zone at a rate responsive to a fall in liquid level occurring in said second zone.

2,530,977
FLUIDIZED HYDROCARBON SYNTHESIS PROCESS
Homer Z. Martin, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 29, 1945, Serial No. 638,421
17 Claims. (Cl. 260—449.6)



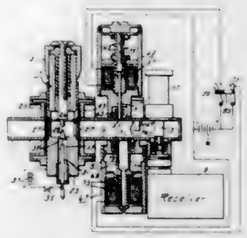
1. An improved process for producing hydrocarbons having more than one carbon atom per molecule from CO and H_2 by a catalytic synthesis reaction, which comprises contacting a synthesis gas containing CO and H_2 in synthesis proportions at synthesis conditions in a synthesis stage with a synthesis catalyst mixed with about 10–50% by weight of a material having a strong adsorbing power for water vapor at the synthesis conditions and in proportions adequate to adsorb on said material a substantial proportion of the water vapor formed during said synthesis stage, recovering synthesis products formed during said synthesis stage and having a substantially reduced water content, removing water from said material in a non-oxidizing revivification stage to revivify said material and contacting said synthesis gas with said revivified material in a synthesis stage.

2,530,978
ISOLATION OF XYLENE ISOMERS
David M. Mason, Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 8, 1946, Serial No. 689,137
11 Claims. (Cl. 260—674)



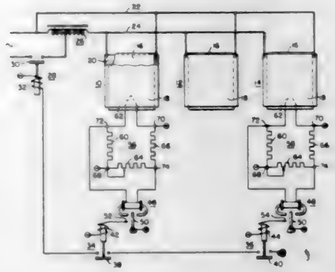
1. The method of recovering substantially pure para-xylene from mixtures thereof with meta-xylene which comprises forming a liquid solution of meta- and para-xylene with a third component selected from the class consisting of ethyl benzene, meta-ethyl toluene, and a mixture of methyl hexenes and dimethyl pentenes, cooling the solution to a temperature below —53° C. but above the eutectic temperature of the system: meta-xylene — para-xylene — third component, whereby para-xylene crystals are formed and meta-xylene is inhibited from crystallizing spontaneously by the action of the third component, and removing substantially pure para-xylene crystals from the cooled solution.

2,530,979
RADIO FREQUENCY CONTROL SYSTEM
Carl G. Matland, New York, N. Y., and Leon Katz, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1945, Serial No. 618,968
19 Claims. (Cl. 343—6)



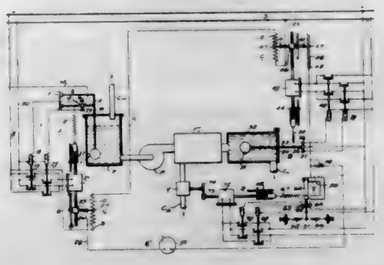
12. For use with a radar-beacon system including a transmitter; an antenna into which said transmitter operates; a receiver capable of receiving the radar frequency; and the beacon frequency; the combination comprising a wave guide section for interconnecting said antenna and said receiver and an electrical switching mechanism including a solenoid controlled conductive plunger adapted for discrete movement into and out of said wave guide for rendering said wave guide selectively conductive to said radar or beacon frequencies.

2,530,980
CONTROL SYSTEM FOR WINDOW HEATERS
Clarence L. Mershon, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 1, 1949, Serial No. 79,053
3 Claims. (Cl. 219—20)



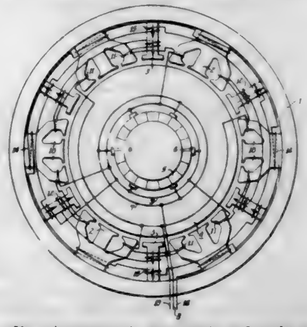
1. In a system for preventing the overheating of a pair of windows each of which has a heating element associated therewith disposed to be supplied from a transformer, the heating elements being connected in parallel circuit relation with one another, in combination, a main contactor having a winding disposed to be energized and a contact member disposed to be actuated into circuit relation with the transformer when the winding is energized for controlling the supply to the parallel connected heating elements, a resistance bridge circuit for each of the windows, each of the bridge circuits having a resistor disposed to be responsive to the temperature of the associated window whereby the resistance of the resistor varies as the temperature of the associated window varies, a polarized relay for each of the bridge circuits connected to be responsive to the balance of the associated bridge circuit, each of the relays being disposed for operation to an open circuit position when the temperature of the resistor of the associated bridge circuit reaches a predetermined value and to a contact making position when the temperature of the resistor of the associated bridge circuit is below the predetermined value, a secondary contactor disposed to be energized when an associated polarized relay is in a contact making position, each of the secondary be actuated when the secondary contactor is contactors having a contact member disposed to energized to connect the main contactor to be energized, the contact members of the secondary contactors cooperating to prevent the energization of the main contactor and the parallel connected heating elements supplied from the transformer when either of the polarized relays is in an open circuit position.

2,530,981
CONTROL FOR ICE-CREAM FREEZERS
Stanley J. Mikina, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 2, 1947, Serial No. 751,681
12 Claims. (Cl. 62—2)



1. In apparatus for determining the change in density of a liquid to which a substance is added while the liquid is moved from one point to some other point, in combination, means for continuously measuring the density of a liquid as it passes a given point, means for adding a substance to the liquid, means for continuously measuring the density of the liquid as it passes a given other point and after the substance has been added, means for comparing the measurements made to produce an indication of the change of the density, and control means responsive to said last named means for controlling the operation of the means operable to add the substance to the liquid.

2,530,982
DIRECT-CURRENT GENERATOR
John D. Miner, Jr., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 16, 1947, Serial No. 741,901
4 Claims. (Cl. 322—65)

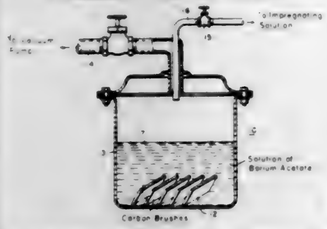


1. A direct-current generator having a field member and an armature member, a main shunt field winding on the field member for providing a main field flux, a main commutating field winding on the field member, said main commutating field winding being connected in series with the armature and being adapted to provide the necessary commutating field flux for satisfactory commutation, an auxiliary commutating field winding on the field member, said auxiliary commutating field winding being cumulative with the main commutating field winding and being adapted to provide a flux in excess of that required for commutation, whereby a compounding effect is obtained, and means for exciting the auxiliary commutating field winding so that its excitation varies directly with the main shunt field winding current.

2,530,983
HYDROXY ESTER ANHYDRIDE COPOLYMER
Herbert F. Minter, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1947, Serial No. 733,415
9 Claims. (Cl. 154—140)

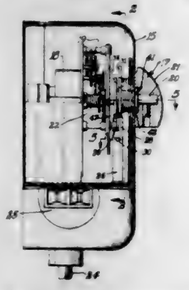
1. The process of producing a thermoset resinous member which comprises heating to a temperature of above 75° C. a body of the hydroxy ester reaction product of (A) the copolymer of one mole of an ethylenic carboxylic organic acid having a single >C=C< group and no other reactive groups than the carboxyl and ethylenic groups, from 0.9 to 2 moles of maleic anhydride for each carboxyl group in the organic acid, and from 1.9 to 10 moles of monostyrene, the copolymer having no polymer-forming ethylenic group, and (B) one mole of a hydrocarbon 1,2-monoepoxide for each carboxyl group in the organic acid, the epoxide having no other reactive group than the epoxy group, the epoxide having reacted with only the carboxyl groups in the organic acid to produce the hydroxy ester, the heating being sufficient to convert the reaction product into the thermoset state.

2,530,984
PROCESS FOR IMPREGNATING CARBON BRUSHES
Lawrence E. Moberly, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 29, 1949, Serial No. 118,524
4 Claims. (Cl. 117—121)



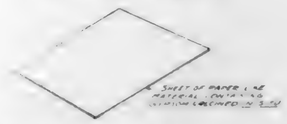
1. In the process of treating carbon brushes, the steps of impregnating the carbon brush with substantial amounts of a concentrated solution of barium acetate, heating the carbon brush and contained solution to a temperature of the order of 500° C. for a period of time sufficient to decompose substantially completely the barium acetate and thereby deposit solid barium oxide and barium carbonate within the pores of the carbon brush and drive off volatile components, and subjecting the brush and the barium oxide and barium carbonate contained therein to a halogen acid selected from the group consisting of hydrofluoric acid and hydroiodic acid for a period of time sufficient to substantially completely change the deposited barium oxide and barium carbonate to a halogenated barium compound.

2,530,985
TIMER FOR AUTOMATICALLY DEFROSTING REFRIGERATORS
David Morrison, Manitowoc, Wis., assignor to Paragon Electric Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 24, 1948, Serial No. 50,902
6 Claims. (Cl. 200—38)



3. In a timer, a switch comprising two long spring fingers, anchored at one end, that contact each other whenever left free to do so, a rotatable shaft near said fingers and at right angles to the plane in which the fingers move as the switch opens and closes, a pair of like cams on said shaft, one cam being fixed on the shaft and the second cam being frictionally held so as to yield under a predetermined turning force in either direction and move angularly relatively to the first cam, a manually operable part on the second cam for applying thereto such a turning force, a pointer on one end of the shaft, each finger having at its free end a part that rides on one of the cams, each cam having a low section that leaves the corresponding finger free and a high section that presses that finger farther away from the shaft, said high sections being of the same radius to cause the fingers to remain in contact with each other while engaged with the high sections of the cams, a motor adapted to run continuously in one direction, and a connection between the motor and the shaft to allow the shaft to be turned in said direction either by the motor, to open and close the switch, or by the pointer, independently of the motor, to set the timer and determine the angular position of the shaft at which the switch opens.

2,530,986
PLASTER OF PARIS CONTAINING PAPER AND METHOD OF MAKING
Edmund Quincy Moses, Scarborough, N. Y.
Application August 12, 1944, Serial No. 549,274
7 Claims. (Cl. 92—3)



2. The process of making a formed paper article which consists in beating up paper pulp and finely divided gypsum, forming the pulp containing the gypsum into a sheet, drying the sheet, heating the sheet to convert the gypsum into plaster of Paris, forming the desired article from said sheet, wetting said article, and permitting the same to set in the desired form.

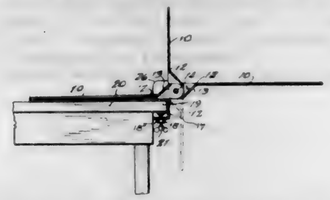
4. A cohesive flexible, substantially homogeneous, dry paper web containing paper pulp material and unhydrated plaster of Paris in sufficient quantity to render the paper settable after moistening.

2,530,987
PRODUCTION OF UNSATURATED ALDEHYDES
Henry O. Mottern, Hillside, and Vincent F. Mistretta, Fanwood, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 13, 1945, Serial No. 634,885
6 Claims. (Cl. 260—601)

1. A process for the production of an unsaturated aldehyde by the reaction of two molecules of acetaldehyde which comprises preparing a vapor mixture consisting of acetaldehyde vapor and hydrogen, reacting the mixture at a temperature of 400° C. and at atmospheric or higher pressure in the presence of a catalyst consisting of a mixture of oxides comprising 94% by weight of zinc oxide and 6% by weight of bismuth oxide deposited on steel turnings, and cooling the resulting reaction materials containing unsaturated aldehyde.

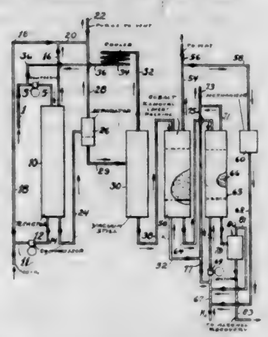
2,530,988
BELT-FORMING DEVICE
Annie Laura Owens, Fort Worth, Tex.
Application December 10, 1947, Serial No. 790,802
1 Claim. (Cl. 223—39)

In a belt forming device, in combination, a plurality of forming blades of the same length but of different widths, and capable of selective operation, a clamp member embracing one end of said blades providing a common pivot therefor, each of said blades being formed with a transverse twist near its pivoted end in said



clamp member, and means forming part of said clamp member for detachably securing same to a work table.

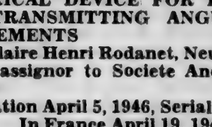
2,530,989
SYNTHESIS OF OXYGENATED ORGANIC COMPOUNDS
Paul T. Parker, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 5, 1947, Serial No. 752,800
9 Claims. (Cl. 260—632)



1. In the production of oxygenated organic compounds by reacting olefins with CO and H_2 in an oxygenation zone at oxygenation conditions of temperature and pressure in the presence of an oxygenation catalyst the improvement which comprises withdrawing a mixture of oxygenated products and unconverted olefins from said oxygenation zone, distilling said mixture, in the presence of dissolved oxygenation catalyst and prior to further conversion, at a reduced pressure of about 5 to 500 mm. Hg adapted to separate unconverted olefins from oxygenated products without excessive condensation of aldehydes and recycling said separated olefins to said oxygenation zone.

2,530,990
ELECTRIC DISCHARGE DEVICE
Leo R. Peters, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application April 21, 1945, Serial No. 589,489
11 Claims. (Cl. 176—122)

1. In an electric discharge lamp, the combination with a tubular radiation-transmitting discharge envelope having reentrant stems, coacting electrodes and other conductive parts therein, at least one of which is thermionic, widely spaced apart lengthwise of the tube to provide for a long-gap positive column discharge through the envelope, and an ionizable operating atmosphere in said envelope having in operation a low pressure, resulting in a diffuse discharge substantially filling the envelope, of a foraminous electrically conductive screen in the envelope and supported exclusively by one of said stems and enclosing the sides and operating-end of the



associated electrode and providing therearound a space that is constricted as compared with the general cross-section of the discharge path in the envelope, while allowing the radiation from the discharge to reach the envelope, said one stem holding said screen in position and insulating it from the conductive lamp parts.

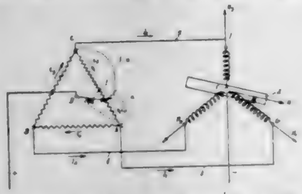
2,530,991
GAS COOKSTOVE BURNER GRATE
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application September 28, 1944, Serial No. 556,178
1 Claim. (Cl. 126—214)

A grate for gaseous fuel cook stove burners comprising, in combination, a continuous annular band of relatively thin sheet metal, a plurality of narrow upwardly projecting standards integral with said band and spaced apart circumferentially around the upper edge of the band, a like plurality of elongated utensil supporting fingers disposed in a plane parallel to the plane of the band and spaced upwardly therefrom, each of said fingers overlying one of said standards and being integrally joined intermediate its ends to the upper end of that standard, said standards being twisted about axes parallel to the central axis of the band to position said fingers generally radially of the band with opposite end portions projecting respectively inwardly and outwardly relative to the band, the outwardly projecting portions of said fingers serving to support the grate on a stove structure.

2,530,992
ELECTRICAL DEVICE FOR REPEATING OR TRANSMITTING ANGULAR DISPLACEMENTS
Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France, assignor to Societe Anonyme: Jaeger Aviation
Application April 5, 1946, Serial No. 659,692
In France April 19, 1945
4 Claims. (Cl. 318—25)

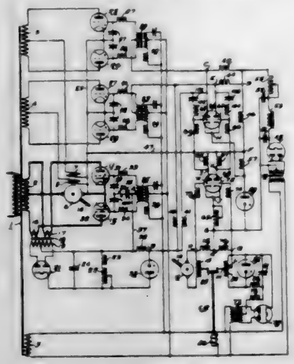
1. In an electrical device for repeating or transmitting angular displacements, in combination, a transmitter comprising a potentiometer subdivided into a plurality of contiguous sections connected in series and constituting the sides of a regular polygon, intermediate take-off connections arranged to the vertexes of this polygon, a movable slider disposed in the center of said

polygon and in contact only with one leg of said polygon, and means for mounting said slider for rotation on an axis through said center, a receiver comprising a plurality of windings in equal number to that of the said potentiometer sections and which are arranged and electrically coupled in star-formation, a pivoting axle disposed in the center of the said star and a magnet mounted on the said axle, means for connecting the said intermediate take-off connections of the transmitter respectively to the free ends of the receiver windings, and a source of current, a terminal of



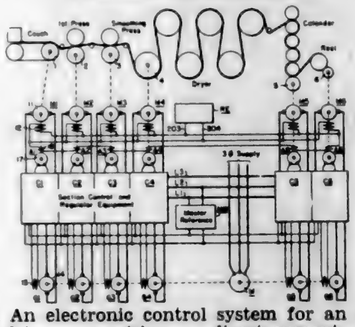
which is connected to the movable slider of the transmitter, the other terminal of the source being connected to the center of the star formed by the receiver windings, whereby, on the one hand, the currents flowing from said windings to the center of the star have always the same direction so that a subsequent continuous amplification may be obtained if necessary, and, on the second hand, the corresponding flux produced therein induces a magnetic directional field parallel to said slider, so that the reproduction of the angular displacements of said slider by said magnet is made with an absolute fidelity.

2,530,993
ELECTRONIC CONTROL SYSTEM FOR DIRECT-CURRENT MOTORS
Walter G. Roman, Williamsville, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 10, 1948, Serial No. 43,414
17 Claims. (Cl. 318—319)



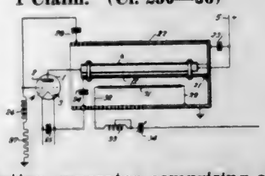
1. A drive control system, comprising alternating-current supply means, two controllable electronic rectifiers, a direct-current motor having an armature and a field winding connected through said respective rectifiers to said supply means, said rectifiers having a cathode lead in common and having respective grid circuits, and control means connected between said lead and said respective grid circuits and having a source of variable voltage for controlling said two rectifiers.

2,530,994
ELECTRONIC CONTROL SYSTEM FOR DYNAMOELECTRIC MACHINERY
Walter G. Roman, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 19, 1949, Serial No. 88,266
13 Claims. (Cl. 318—345)



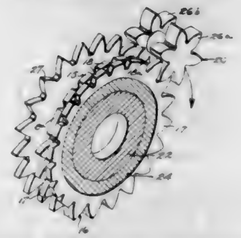
10. An electronic control system for an electric drive, comprising a direct-current drive motor, alternating-current supply means, circuit means connected between said motor and said supply means and comprising a controllable power rectifier for applying variable voltage to said motor to control the motor speed, an amplifier network having electronic tubes connected to said supply means to be energized by alternating current and having an output circuit connected to said power rectifier and an input circuit, reference means of normally constant voltage and variable-voltage means responsive to the speed of said motor connected in mutually opposed relation with said input circuit, current-responsive circuit means connected with said motor to provide voltage in accordance with the motor current, a current-limit control device having electronic tubes plate-connected to said supply means to be energized by alternating current and grid-connected to said current responsive circuit means to be controlled thereby, and isolating transformer means coupling said device with said network to superimpose current-limit control on said network when said current exceeds a given limit value.

2,530,995
OSCILLATOR TANK CIRCUIT CONFIGURATION
Rupert L. Rumpf, Jr., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1946, Serial No. 701,843
1 Claim. (Cl. 250—36)



An oscillation generator comprising an anode, a cathode and a control electrode, a first channel-member having one end connected to said anode and having the positive terminal of a direct current source connected to its other end, a second channel-member spaced away from said first channel-member to constitute a capacitance therewith, a conducting chamber surrounding said channel-members, means for conductively connecting the end of said second channel-member which is nearest to the end of said first channel-member which is connected to said direct current source with one point on the walls of said chamber, a connection from the negative terminal of said direct current source to a second point near said first point on the walls of said chamber, a biasing means connecting said control electrode to said second point, a substantially impedance-free connection between said cathode, and a third point on the walls of said chamber, a capacitor interconnecting said third point with the end of said second channel-member which is nearer the end of said first channel-member to which said anode is connected, a capacitor interconnecting said control electrode with a fourth point on the walls of said chamber, and means for coupling a load circuit with the space inside said chamber.

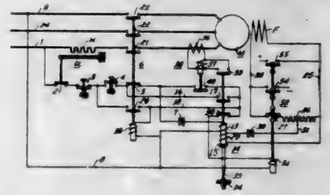
2,530,996
DIFFERENTIAL ACTUATING MECHANISM
Alva G. Russell, Stamford, Conn., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application April 1, 1948, Serial No. 18,438
4 Claims. (Cl. 235—81)



1. In register actuating mechanism, an accumulator member, a transmission gear having a geared driving connection with the accumulator member, a composite actuator gear structure having an adjustable toothed and an adjustable non-toothed peripheral surface, a pinion having teeth in operative relation with the transmission and composite actuator gear structure, and a cyclically driven support for said pinion to effect movement of said pinion circumferentially around the composite actuator gear structure and transmission gear, said pinion being rotatable while engaging the teeth of the composite actuator gear structure and non-rotatable while two successive teeth thereof engage and move over the non-toothed peripheral surface of said composite actuator gear structure during each cycle of movement of the pinion support, whereby the transmission gear and accumulator member are adapted to be driven while the pinion teeth move non-rotatively over the non-toothed surface of the composite actuator gear structure.

2,530,997
STARTING CONTROL SYSTEM FOR SYNCHRONOUS MOTORS
Walter Schaelchlin, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1947, Serial No. 751,022
1 Claim. (Cl. 318—167)

In a synchronous motor starting control scheme of the type described, the combination of a synchronous motor having an armature winding and a field winding, a plurality of terminal leads normally energized with alternating current, a pair of terminal leads normally energized with direct current, an inductive time limit relay having an armature and adjustable spring means for biasing the armature to the drop-out position by a selected force, a main coil for operating the armature to the pickup position, a line contactor for effecting the connection of the motor armature to the plurality of terminals to thus energize the armature winding with alternating current, means for energizing the said main coil to cause actuation of the relay armature to its pickup position, means responsive to the operation of the relay armature to the pickup position for effecting the energization of the line contactor, a field contactor for connecting the field winding to the terminals energized with direct current, said time limit relay having a second coil comprising a holding coil intercon-

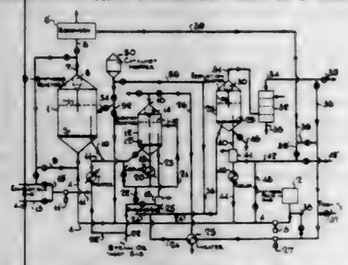


nected with the motor field winding, a rectifier and variable impedance in series with the holding coil whereby the time limit relay armature is held in its pickup position by pulses of rectified current having a frequency proportional to the motor slip, control means responsive to the operation of the line contactor for deenergizing the main coil of the inductive time limit relay, a resynchronizing relay interconnected with said synchronous motor to be responsive to relatively high motor armature winding currents, means operable by said inductive time limit relay for making said resynchronizing relay inoperative during starting of the motor, said variable impedance in the circuit of the holding coil being adjusted so that the dropout of the inductive time limit relay occurs at an instant having a given time relation to a given point on a given frequency cycle, and means responsive to the dropout of the time limit relay for causing the operation of the field contactor.

2,530,998
SYNTHESIS OF HYDROCARBONS
Walter G. Scharmann, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1945, Serial No. 637,693
3 Claims. (Cl. 260—449.6)

1. In the continuous production of hydrocarbons by conversion of carbon oxides with hydrogen in the presence of a finely divided iron-base catalyst maintained in a conversion zone in the form of a dense, fluidized mass in which used fluidized catalyst is withdrawn from the conversion zone, reactivated in a regeneration zone in the form of a dense, fluidized mass and thereafter returned to the conversion zone, the improvement which comprises continuously heating the withdrawn catalyst by the combustion of an extraneous combustible gas with free oxygen in contact with the catalyst to a temperature sufficiently high to initiate and maintain the combustion of combustible catalyst deposits, subject-

ing the heated catalyst to an oxidizing treatment with an oxidizing gas in an oxidation zone wherein the catalyst is maintained in the form of a dense fluidized mass at a temperature of about 1000°–1600° F. sufficiently high to initiate and maintain the combustion of combustible catalyst deposits, removing at least a substantial portion of carbonaceous deposits from the catalyst by combustion in the course of said oxidizing treatment, passing catalyst substantially at said temperature from said oxidation zone to a reduction

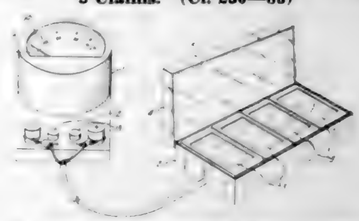


zone, wherein it is maintained in the form of a dense fluidized bed, subjecting the catalyst in said reduction zone to a reducing treatment with a reducing gas at a temperature of about 800°–1400° F. but not higher than said first mentioned temperature, adding sufficient oxidizing gas to said reduction zone to generate by a limited combustion of said reducing gas sufficient heat to maintain said second named temperature in said reduction zone, and returning reduced catalyst to said conversion zone.

2,530,999
BOTTLE CAP
Harold A. Schuler, Woodside, N. Y.
Application December 10, 1949, Serial No. 132,380
3 Claims. (Cl. 215—73)

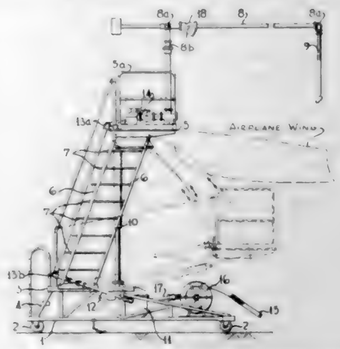
1. A bottle cap comprising a body including a roof and a flange-like apron depending from the circumferential edge of the roof, said apron having a cut-out therein extending through the lower circumferential edge thereof upward toward said roof to a distance of about one-half the depth of said apron and extending arcuately a distance of approximately one-half the circumferential length of the apron, a locking member having substantially the same arcuate length and width as the length and depth respectively of said cut-out, said member having one end thereof hinged to said apron at one end of said cut-out and having a deformed spring clip secured to the other end of said member, said clip including an inwardly projecting tongue, said apron having an outwardly projecting nose thereon at the other end of said cut-out, said tongue being registrable in said nose when said member is swung into alignment with said cut-out thereby releasably locking said member in the latter position, said roof having a pouring spout extending therefrom, the radius of curvature of said member substantially equalling the radius of curvature of said apron.

2,531,000
ERYTHEMAL METER
Hoyt S. Scott, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application December 24, 1947, Serial No. 793,611
5 Claims. (Cl. 250—83)



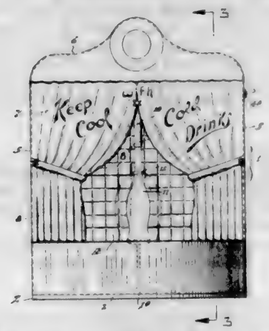
1. A meter for measuring erythemal radiation comprising a light sensitive cell having its maximum response in a band of the visible spectral region and being responsive also to radiation outside said band, a current measuring instrument connected to said cell and a cover over the light sensitive surface of the cell comprising means for absorbing substantially all radiation other than erythemal radiation, means for converting the transmitted erythemal radiation into radiation of longer wave length including visible light in the spectral band in which the cell has its maximum response and means including a Corning #4010 filter between said second named means and said cell for absorbing all stray radiation, including infrared radiation, whereby the meter response corresponds closely to the erythemal effectiveness curve.

2,531,001
AIRPLANE FUEL SERVICING UNIT
Joseph V. Short, East Orange, N. J., assignor to Standard-Vacuum Oil Company, a corporation of Delaware
Application August 21, 1947, Serial No. 769,936
1 Claim. (Cl. 222—176)



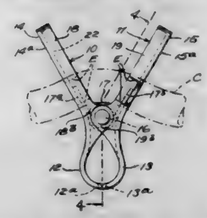
Fuel servicing apparatus for airplanes consisting of a wheeled truck body, having a substantially level frame, a servicing platform carried by said body, including a collapsible supporting frame and ladder for said platform and means for elevating the platform above the truck body, a swivel mounted, counter-balanced, rigid conduit element mounted on said platform, having a flexible conduit portion for fluid-tight connection to an airplane fuel tank, fixed fuel supply means mounted on said truck body, a flexible conduit member freely supported longitudinally of said collapsible platform supporting frame, and of substantially the same length as said frame, said member secured at one end to said rigid conduit element, and, at the other end, to said fixed fuel supply means in rotatable fluid-tight relation to each, and flexible conduit means for connecting said fuel supply means to a reservoir system for fuel.

2,531,002
DISPLAY DEVICE
Carl M. Sisk and Mildred W. Sisk, Matamoras, Pa.
Application March 26, 1948, Serial No. 17,334
8 Claims. (Cl. 40—126)



8. A display device of the character described, comprising an element provided with a deflecting surface arranged to convert a substantially solid liquid stream directed thereagainst into a hollow stream forming a liquid curtain about an object positioned therebeneath, object supporting means below said element, and a liquid circulating system arranged to direct a substantially solid liquid stream against the deflecting surface of said element.

2,531,003
CABLE CLAMPING DEVICE
Frank V. Slaker, Norwalk, Conn., assignor to Edwards & Company, Inc., Norwalk, Conn., a corporation of New York
Application July 26, 1946, Serial No. 686,276
6 Claims. (Cl. 24—81)



1. A clamping device for clamping a cable and for clamping another part comprising two levers of the first class having means pivotally connecting them intermediate their lengths, the opposed portions thereof on one side of the pivoting axis forming clamping jaws, and the opposed portions on the other side of the pivoting axis forming diverging arms comprising cable engaging and finger piece portions, spring means biasing said levers about the pivoting axis in a direction to press the clamping jaws toward one another and to urge said diverging arms away from one another, the said cable engaging portions of said arms being disposed between said pivotal connecting means and said finger piece portions and having recesses therein of a cross section substantially matching that of the cable to be gripped, said arms being respectively slotted in opposite direction from their margins providing laterally extending cutouts connecting with said recesses whereby entry of the cable reach into said recesses is effected from respectively opposite sides of the clamping device.

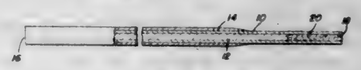
2,531,004
ACETONITRILES AS AZO COMPONENTS IN DIAZOTYPES
Sam Charles Slifkin, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 26, 1947, Serial No. 788,311
12 Claims. (Cl. 95—6)

1. In the process of preparing diazotype copies, the step which comprises coupling the residual light sensitive diazo compound, contained in a light sensitive diazotype layer after exposure thereof to light in a predetermined pattern, with an azo coupling component having the following general formula:

$$R—CH_2—CN$$

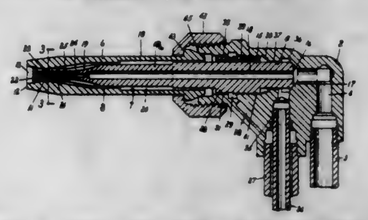
wherein R is a member of the group consisting of an acyl radical of an aliphatic carboxy acid, a carboxyl group and an aryl radical containing a nitro group in at least one of the ortho- and para-positions.

2,531,005
VENTING PLUG FOR WELDING RODS
Belmont D. Smith, Eaton, Ohio
Application December 12, 1949, Serial No. 132,453
5 Claims. (Cl. 219—8)



1. In combination with a hollow welding rod containing an alloying filler and closed at one end, a coating of welding flux on the outer surface of said rod and a plug carried at the open end of said rod, said plug including means for venting gases from said rod when the latter is heated.

2,531,006
TIP FOR CUTTING BLOWTORCHES
Elmer H. Smith, Minneapolis, Minn., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn., a corporation of Minnesota
Application December 30, 1946, Serial No. 719,323
2 Claims. (Cl. 158—27.4)



1. In a cutting tip of the class described, an outer member having an enlarged axial bore therein, the wall of said bore tapering inwardly to a restricted cylindrical bore and terminating in an outwardly tapering bore at the discharge end of the tip, an inner member having a portion

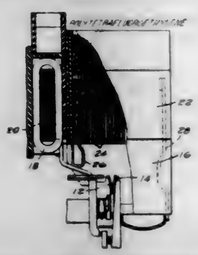
fitting in said enlarged bore and having a reduced cylindrical end portion fitting in said restricted cylindrical bore and extending into the outwardly tapering terminal bore of the outer member, said reduced cylindrical end portion having longitudinally extending grooves in its periphery cooperating with the wall of said restricted cylindrical bore to form a plurality of preheating orifices, the reduced cylindrical end portion of said inner member terminating short of the adjacent end of the outer member, whereby said outwardly tapering terminal bore forms an expansion chamber for the preheating flame.

2,531,007

CIRCUIT INTERRUPTER EMBODYING POLYTETRAFLUOROETHYLENE

Albert F. Strom and Leo J. Berberich, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 20, 1947, Serial No. 736,070
6 Claims. (Cl. 200—149)



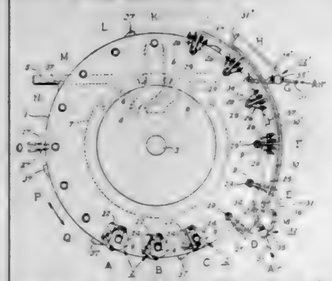
1. An electric circuit interrupter comprising in combination, conductor means between which an arc is formed on interruption of the circuit, and arc confining and extinguishing means disposed along the path of the arc from which an arc extinguishing medium can be evolved due to the heat of the arc for extinguishing the arc, the arc confining and extinguishing means comprising polytetrafluoroethylene.

2,531,008

SEALING-IN METHOD AND APPARATUS

Raymond H. Stuart, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York

Application April 14, 1944, Serial No. 530,952
3 Claims. (Cl. 49—2)



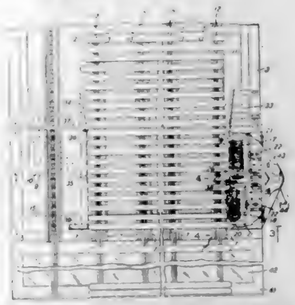
3. A sealing-in machine of the class described comprising the combination of a carrier having a plurality of heads for supporting a tubular envelope and a mount in sealing relation with the envelope upright and the mount at the lower end of the envelope, means for indexing said carrier, gas burners located at a series of heating stations occupied by the heads on said carrier and arranged to heat the lower ends of the envelopes and the adjacent portions of the mounts in said heads, and downwardly directed air nozzles located at said heating stations above and in alignment with the path of travel of said heads so as to be in registry with the upper ends of envelopes in the heads at said heating stations and direct a stream of air downwardly into said envelopes whereby to at least neutralize any upward flow of gas or vapor through said envelope, a conduit connecting the nozzles at alternate stations with a source of compressed air, a second conduit connecting the nozzles at the intervening stations with said source of compressed air, a valve in each of said conduits having control means extending adjacent the path of travel of said carrier, and cam means on said carrier arranged to engage each of said valve control means alternately upon indexing of said carrier.

2,531,009

TUBE END BRUSHING APPARATUS

Raymond H. Stuart and Reginald J. Ayres, Cleveland, Ohio, assignors to General Electric Company, a corporation of New York

Application August 10, 1946, Serial No. 689,780
5 Claims. (Cl. 15—304)



4. Apparatus for cleaning one end of glass lamp tubes comprising, in combination, a conveyor comprising a plurality of horizontally extending tracks arranged to support the glass tubes horizontally thereacross for rolling movement therealong and a movable endless chain mechanism mounted beneath and substantially co-extensive with the said tracks and carrying a series of fingers projecting above the tracks to define a plurality of transverse tube-receiving passageways, said fingers engaging said tubes to push them along the tracks to cause the tubes to roll therealong, moving brush means disposed at one side of said conveyor in a position outwardly adjacent the path of travel of the said one end of the tubes, tube guiding means on said conveyor engageable with the advancing tubes to guide the said one end thereof into engagement with and across the said brush means, and air clean-out means for the tubes comprising transversely aligned notches in the upper sides of the tracks adapted to receive and temporarily hold the tubes relatively stationary as they become disengaged by the tube-advancing fingers at the discharge end of the conveyor and out of which the tubes are pushed by the succeeding tube, and an air nozzle aligned with the said notches and positioned outwardly adjacent the path of travel of the other end of the tubes to direct a blast of air into the said other end of and through each tube while temporarily positioned within the said notches.

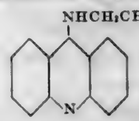
2,531,010

9-[2-(2-HYDROXYETHYLAMINO)ETHYLAMINO]ACRIDINE AND METHOD FOR ITS PRODUCTION

Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application January 22, 1949, Serial No. 72,266
3 Claims. (Cl. 260—279)

1. A compound selected from the group consisting of 9-(2-(2-hydroxyethylamino)ethylamino)acridine having the formula



and acid addition salts thereof.

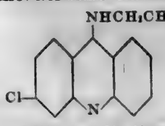
2,531,011

3-CHLORO-9-[2-(2-HYDROXYETHYLAMINO)-ETHYLAMINO]ACRIDINE AND METHOD FOR ITS PRODUCTION

Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application January 22, 1949, Serial No. 72,267
3 Claims. (Cl. 260—279)

1. A compound selected from the group consisting of 3-chloro-9-(2-(2-hydroxyethylamino)ethylamino)acridine having the formula



and acid addition salts thereof.

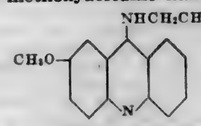
2,531,012

9-[2-(2-HYDROXYETHYLAMINO)-ETHYLAMINO]-2-METHOXYACRIDINE AND METHOD FOR ITS PRODUCTION

Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application January 22, 1949, Serial No. 72,268
3 Claims. (Cl. 260—279)

1. A compound selected from the group consisting of 9-(2-(2-hydroxyethylamino)ethylamino)-2-methoxyacridine having the formula



and acid addition salts thereof.

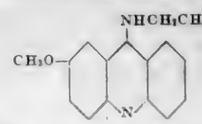
2,531,013

9-[3-(2-HYDROXYETHYLAMINO)-PROPYLAMINO]-2-METHOXYACRIDINE AND METHOD FOR ITS PRODUCTION

Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application January 22, 1949, Serial No. 72,270
3 Claims. (Cl. 260—279)

1. A compound selected from the group consisting of 9-(3-(2-hydroxyethylamino)propylamino)-2-methoxyacridine having the formula



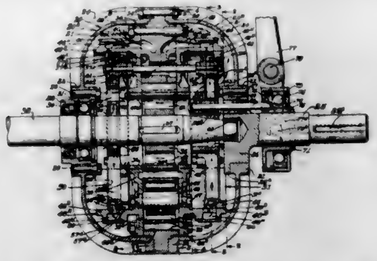
and acid addition salts thereof.

2,531,014

VARIABLE SPEED HYDRAULIC CLUTCH

John R. Thomas, Wichita, Kans., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans., a corporation of Kansas

Application November 16, 1948, Serial No. 60,270
6 Claims. (Cl. 192—61)

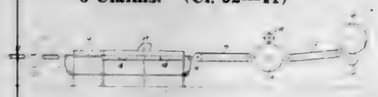


1. A variable speed hydraulic coupling adapted to be interposed between rotatable power-driven means and a driven shaft and comprising a rotatable casing having therein a pair of axially spaced intercommunicating chambers partially filled with oil whereby, during the rotation of said casing, there is provided in said chambers an outer annular zone of oil and an inner central zone of air; a cylindrical fluid-intake valve seat and a separate cylindrical fluid-discharge valve seat, said valve seats being axially spaced from each other and both being disposed in said zone of oil; fluid-circulating power-transmitting means positioned axially between said valve seats including ports providing fluid circuits having intake openings in said intake valve seat and discharge openings in said discharge valve seat and including relatively movable coacting power-transmitting elements operatively connecting said casing with said driven shaft; a cylindrical fluid-intake control valve having a peripheral fluid-metering rim disposed within the zone of oil and being movably mouned on said intake valve seat and having a plurality of radially disposed air passages provided with air inlet openings in the central portion of said intake valve within the zone of air and air discharge openings within said rim, said intake control valve being adapted to control and meter the flow of air or oil or mixtures of air and oil into said port circuits; a cylindrical fluid-discharge control valve spaced axially from said fluid-intake control valve and having a peripheral rim disposed within the zone of oil, movably mounted on said discharge valve seat, adapted to control and meter the flow of fluids out of said port circuits, said discharge valve including a plurality of radially disposed exhaust fluid passages having fluid inlet openings in said rim thereof and fluid discharge openings in the central portion of said discharge valve within the zone of air; and conjoint control means for moving said valves to control the fluid flow through said port circuits.

2,531,015
INTERNAL RING GAS BURNER
William E. Thompson, Nutwood, Ohio, assignor to General Electric Company, a corporation of New York
Application July 24, 1946, Serial No. 685,975
2 Claims. (Cl. 158—99)

1. An internal ring gas burner comprising an inner sleeve which is open to the atmosphere at both ends, an outer sleeve around the upper portion of said inner sleeve and joined at its lower end to said inner sleeve, the upper end of said outer sleeve being flanged inwardly across the upper end of said inner sleeve and defining therewith an inwardly directed outlet, the walls of said inner and outer sleeves being spaced apart between the upper and lower ends of said outer sleeve to define therebetween an annular chamber, an annular ridge on one of the sleeves and in said chamber defining a restriction dividing said chamber into separate upper and lower manifolds, and means for supplying a fuel gas mixture to the said lower manifold.

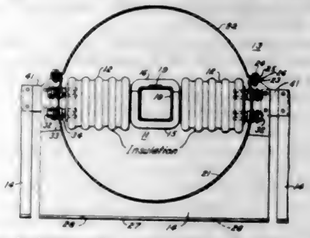
2,531,016
TREATMENT OF FIBRO-CEMENT PRODUCTS
Otto H. Waechter, North Plainfield, N. J.
Application September 15, 1945, Serial No. 616,529
3 Claims. (Cl. 92—41)



1. A process of treating asbestos-cement products which consists in continuously and successively progressing a series of cut freshly formed laminated asbestos-cement sheets having a moisture content of from about 22% to 35% by weight first through a heating zone to condition the sheets for pressing by heating said sheets sufficiently to reduce the moisture content from the outer laminations to about 15% by weight, then through a cooling zone of room temperature, and finally subjecting the cooled moisture conditioned sheets to pressure to form a densified asbestos-cement product.

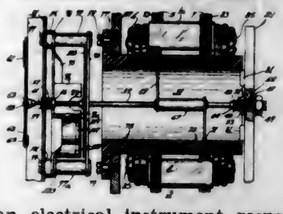
2,531,017
BUS STRUCTURE
Charles P. West, Harold H. Rugg, and Paul R. Pierson, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1946, Serial No. 706,570
15 Claims. (Cl. 174—99)

1. A bus structure comprising a bus, a curved housing for the bus, combined supporting and stiffening members secured to and encircling more than half of the outside diameter of the housing at regular intervals, and insulating members attached directly to the encircled portion of the



housing between the supporting members to support said bus.

2,531,018
ELECTRICAL PHASE MEASURING INSTRUMENT
Douglass A. Young, East Orange, Bernard E. Lenehan, Bloomfield, and Howard F. Bush, Florham Park, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 8, 1943, Serial No. 513,350
11 Claims. (Cl. 172—245)

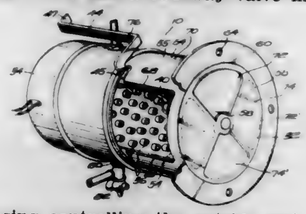


1. In an electrical instrument responsive to the phase relationship between first and second electrical quantities, a stator assembly including a polyphase winding structure effective when energized for producing a rotating magnetic field, a rotor assembly, and means mounting said rotor assembly in said magnetic field for rotation about an axis relative to said stator assembly, said rotor assembly comprising a pair of magnetic vanes spaced apart along said axis and extending radially from said axis in substantially opposite directions, said stator assembly including a pair of magnetic parts having slots for receiving said polyphase winding structure, said polyphase winding structure being common to both of said parts, said parts surrounding said rotor assembly and being spaced along said axis to position each of said parts adjacent a separate one of said magnetic vanes, and said magnetic parts and said magnetic vanes being so located that when one of said vanes is substantially aligned with a slot in its associated magnetic part the other one of the vanes is displaced angularly about said axis with respect to the nearest slot thereto.

2,531,019
COMBINATION OIL COOLER AND AIR CONDITIONING DEVICE FOR AUTOMOTIVE VEHICLES
Alfred J. Audet, Providence, R. I.
Application January 12, 1949, Serial No. 70,436
4 Claims. (Cl. 237—12.3)

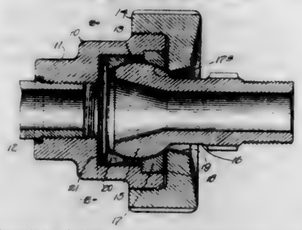
1. A combination oil cooler and air conditioning device for automotive vehicles comprising a tubular casing open at both ends, one end opening outside the vehicle body and the other end opening towards the inside, said casing having a side body opening into the inside of the vehicle

body, a heat exchange unit in said casing, means for passing the hot lubricating oil of the vehicle engine transversely through said heat exchange unit, means for selectively blowing air in either direction axially of said casing through said heat exchange unit, and a two-way valve means on



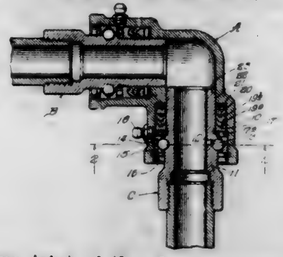
said casing controlling the outside end opening and the inside side opening whereby said valve will close one opening and open the other opening in one position and open the first opening and close the second opening in a second position.

2,531,020
JOINT
Francis N. Bard, Highland Park, Ill.
Application March 14, 1946, Serial No. 654,419
4 Claims. (Cl. 285—95)



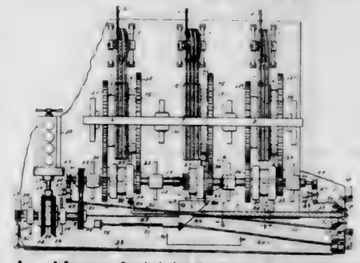
1. A flexible joint of the character described comprising: a casing; a ball member movable therein, an annular means in said casing and in sealing engagement with one side of said member; a second annular means in engagement with the other side of said member, at least one of said means being a seal; and a plurality of oppositely angularly disposed spring washers between said second means and the inner wall of said casing and so arranged as to maintain said second means against said member but permitting relative movement therebetween, the initial angle of said spring washers being very substantially reduced when the joint is assembled.

2,531,021
SWING JOINT
Francis N. Bard, Highland Park, Ill.
Application July 22, 1947, Serial No. 762,706
1 Claim. (Cl. 285—97.3)



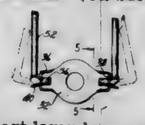
A swing joint of the character described, including: an outer casing member; an inner member rotatable in said casing member, said members having spaced confronting surfaces, the surface of one of said members having an annular groove therein; ball bearings in said groove; an annular raceway comprising a part carried by the other member and slidable longitudinally on the said surface thereof to be removable therefrom; and a separate, readily removable retaining member for holding said raceway in the joint part by which it is carried.

2,531,022
CABLEWAY HOIST
Norman S. Bateman and Maurice F. Missiaen, Toronto, Ontario, Canada, assignors to Construction Improvements Limited, Toronto, Ontario, Canada, a company of Canada
Application May 5, 1947, Serial No. 746,012
7 Claims. (Cl. 254—185)



1. A cableway hoist including a traversing line drum and two transmission line drums mounted for independent rotation, a shaft, a prime mover for rotating said shaft in either direction, said traversing line drum having a fixed peripheral gear and said transmission line drums each having two fixed peripheral gears spaced from one another, the corresponding end gears of said transmission line drums preferably being of like diameter and the other corresponding end gears of said transmission line drums being of like diameter to one another but differing in diameter from those of the first mentioned corresponding end gears, whereby each said transmission line drums has two speeds, gears on said shaft individual to said fixed drum gears and meshing therewith but being unconnected to said shaft normally, a clutch movable along said shaft individual to the shaft gear meshing with the fixed gear of said traversing line drum, means for moving said clutch along said shaft into and out of engagement with said shaft gear, a clutch movable on said shaft between each two shaft gears of each transmission line drum for selective engagement with either shaft gear, selective control means for said clutches whereby said drums may be rotated coincidently or otherwise at like or different relative speeds.

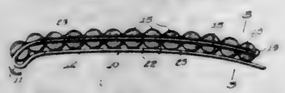
2,531,023
LAMP HARP
Kornel Berger, Kew Gardens, N. Y.
Application April 30, 1947, Serial No. 744,872
2 Claims. (Cl. 240—148)



1. A take-apart lamp harp comprising a bracket including an annular portion having two up-

standing portions, each of said upstanding portions having an elongated aperture adjacent the base thereof, and a bail-shaped harp frame of resilient material having straight end portions with inturned fingers of uniform cross-sectional area, each of said fingers having a projection thereon, said projections being so relatively angularly oriented that, when one projection is in line with a longitudinal axis of one of the apertures, the other projection will be in line with the longitudinal axis of the other aperture, the distance between the ends of the wire frame when detached being less than the distance between the upstanding portions of the bracket, each of said upstanding portions having outwardly extending flanges along its side edges whereby each said upstanding portion and the pair of flanges associated therewith define a U-shaped channel, said channel being so dimensioned as to snugly receive the straight ends of the harp frame, each projection being spaced inwardly from the region where its associated finger joins an end portion a distance at least equal to the depth of the U-shaped channel plus the thickness of the base of the channel whereby when said fingers extend through said apertures and the end portions of the frame engage the free edges of the flanges of the U-shaped channels, the projections are inside of the upstanding portions of the bracket.

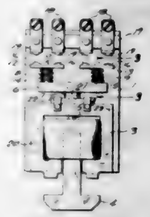
2,531,024
BEADED BARRETTE
George Noel Bolinger, Shelbyville, Ill.
Application May 19, 1947, Serial No. 749,035
4 Claims. (Cl. 132—50)



1. A hair-holding device comprising a unitary body bent intermediate its ends to form spaced arms, a plurality of ornamental elements having openings therethrough to receive one of said arms, said elements having portions projecting toward the other arm to cooperate therewith to form hair-holding surfaces, said body being formed of resilient material to tend to hold said elements in engagement with said other arm, and cement arranged within the openings in said elements and fixing them in position on said one arm, the cement of adjacent elements being bonded together between each adjacent pair of elements to form filleted corners therebetween.

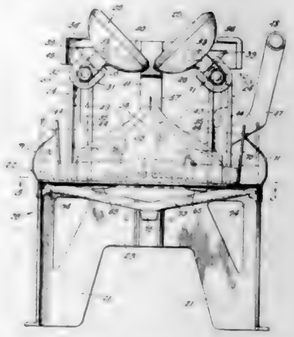
2,531,025
CUSHIONED MAGNETIC SWITCH
Harry L. Bradley, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 27, 1946, Serial No. 699,655
3 Claims. (Cl. 200—104)

2. In a switch biased to open position having a movable contact actuator having an open and closed position, movable contacts carried by said actuator, retaining means mounted on said actuator supporting said movable contacts and adapted to retain the same with limited freedom of movement with respect to said actuator, preloaded resilient means interposed between said actuator and said movable contacts adapted to urge the same toward the limiting position imposed by said retaining means, said movable contacts being free of all restraint other than that imposed by said retaining means and said preloaded resilient means, stationary contacts positioned to be engaged by said movable contacts and to deflect said resilient means when said actuator is in closed position, and dead cushioning means associated with said actuator adapted to stop said actuator upon arrival in open position and adapted to be sufficiently de-



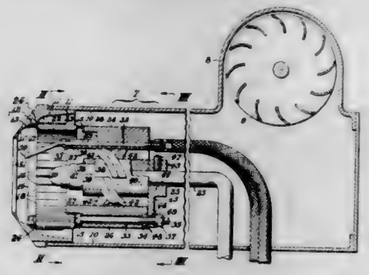
flected by the momentum of said actuator and associated movable parts at the end of their opening movement so as to decelerate the same at a rate insufficient to cause said movable contacts to overtravel against the tension of said resilient means without causing substantial rebound of said actuator.

2,531,026
FRUIT CUTTER AND JUICER
Anthony Cadella, Bridgeport, Conn.
Application October 23, 1947, Serial No. 781,597
12 Claims. (Cl. 100—41)



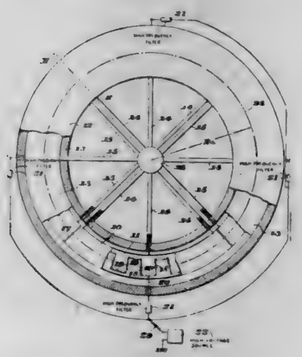
2. In a fruit juice extractor, a pair of juxtaposed cups for engaging opposite sides of a fruit, said cups being pivotally movable about axes fixedly spaced from each other whereby the cups may be swung to and from positions facing each other; a second pair of cups respectively carried by and nestable in the first-mentioned cups, said cups of the second pair being respectively movable axially thereof between extended, partially nested positions and retracted fully nested positions in the first cups, and being spring-urged toward their extended positions, thereby to provide for fruit of different sizes which are inserted between the cups being firmly gripped when the cups are substantially facing each other; means for cutting in half a fruit, carried between the cups, in response to movement of said cups about their axes; means cooperable with the cups for displacing the contents of fruit halves carried in the cups to express juice from said halves; and means carried by the second pair of cups for igniting oils pressed from the fruit skin during the expressing of juice from the fruit.

2,531,027
OIL BURNER
James M. Carroll, Philadelphia, Pa., assignor to The Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application December 17, 1947, Serial No. 792,282
7 Claims. (Cl. 158—1.5)



1. In a fuel burner, a blast tube, means for driving combustion supporting air downstream through said blast tube, a fuel feed nozzle in said blast tube, a fuel feed conduit connected to said fuel feed nozzle, an outer air stabilizer having vanes disposed in surrounding relation to said nozzle with substantially unobstructed free space therebetween, said vanes being disposed longitudinally in said blast tube each extending at least partially upstream in said blast tube of said nozzle and constructed to direct air inwardly through said stabilizer, and inner air whirling sleeve on said fuel feed conduit, and a plurality of air whirling segments angularly attached to said air whirling sleeve wholly upstream of said nozzle to impart whirling motion to the inner air around said nozzle.

2,531,028
ELECTRON ACCELERATING APPARATUS
Nicolas C. Christofilos or Nicolas C. Philos, Athens, Greece
Application July 25, 1946, Serial No. 686,254
In Greece January 25, 1946
8 Claims. (Cl. 332—58)

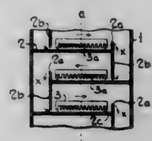


1. An electron accelerating apparatus comprising means for producing a high frequency accelerating field, means for producing a time varying magnetic field for guiding the accelerated particles in a circular orbit within an annular evacuated glass vessel, said vessel having its inner surface metallised, said metallised surface being divided into an even number of, electrically insulated sectors, said sectors being connected to a high frequency amplifier in such a manner, so that in the gaps between said sectors a H. F. electric field having a phase displacement of 180° to the preceding and following gaps is produced.

2,531,029
METHOD OF TREATING VINEGAR
Rolland F. Cohee, Jr., Wheaton, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 8, 1950, Serial No. 143,160
16 Claims. (Cl. 99—147)

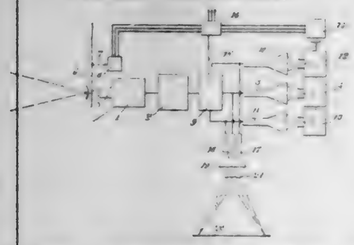
1. The method of improving vinegar with respect to color and stability which comprises adding thereto a material selected from the group consisting of phytic acid and phytate salts soluble in vinegar, and thereafter filtering said treated vinegar to remove insoluble phytate complexes.

2,531,030
TUNNEL-TYPE BUBBLE CAP AND MEANS FOR CONTROLLING VAPOR DISTRIBUTION THERETHROUGH
William S. Craft, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 21, 1947, Serial No. 781,102
6 Claims. (Cl. 261—114)



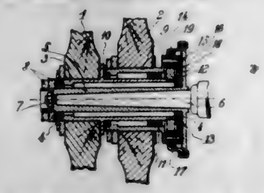
1. In a fluid contacting tower, vertically spaced transverse plates in said tower, each having an inlet for liquid on one side and an outlet for liquid on the opposite side providing for flow of a stream of liquid across an intermediate portion of said plate from inlet to outlet, elongated chimney elements opening upwardly through each plate in the intermediate portion thereof, extending substantially from a plate inlet at one end to a plate outlet at the other end in the direction of liquid flow across said plate, said chimney elements providing for the flow of a second fluid upwardly through said plate and the tower, a tunnel-type bubble cap for each chimney element and substantially co-extensive therewith, each bubble cap having a peripheral dependent skirt normally submerged in the liquid flowing across the plate, and a plate inlet and a plate outlet end, and means for equalizing the distribution of said second fluid normally flowing upwardly through said chimney elements over the lower peripheral edge of each bubble cap skirt in service, comprising a plurality of notch portions disposed in peripherally spaced relation along the lower edge of said skirt and extending upwardly therein, the total area of said notch portions per unit of length of the bubble cap increasing progressively from the plate outlet end to the plate inlet end of said bubble cap with the total area of said notch portions from the lateral center line of the cap to the plate inlet end thereof being greater than the total area of said notch portions from the center line of the cap to the plate outlet end thereof.

2,531,031
TELEVISION DEVICE FOR RECORDING MOTION PICTURES THEREOF
Henri Georges de France and René Bocquel, Paris, France, assignors to Tele-Industrie S. A. R. L., Paris, France, a society of the Republic of France
Application October 28, 1947, Serial No. 782,650
In France September 24, 1947
3 Claims. (Cl. 178—5.2)



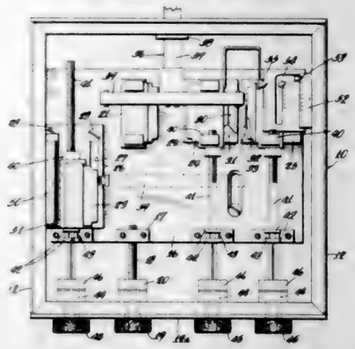
1. A color cinematograph recording device which comprises, in combination, a television camera, means for passing a plurality of color filters, successively and according to a given cycle, in front of the objective of said camera, an amplifier connected to the output of said camera, a plurality of television receivers including each an image tube, the number of receivers being equal to that of filters, a switch interposed between said amplifier and said receivers and synchronized with the filter passing means, for operating each receiver successively while a corresponding filter is passing in front of said camera, a plurality of motion picture cameras, each motion picture camera focused on one image tube screen, respectively, and means operatively connected with said switch for operating said motion picture cameras successively to record the respective images traced on said screens as they are being scanned.

2,531,032
PROPELLING MECHANISM
Emile Hyacinthe Desmoulins, Puteaux, France
Application December 17, 1938, Serial No. 246,252
In France December 30, 1937
Section 3, Public Law 690, August 8, 1946
Patent expires December 30, 1957
1 Claim. (Cl. 74—801)



A drive for rotating a pair of coaxial members in opposite directions comprising a spindle to be driven from a power source, a tubular shaft for supporting one of said coaxial members on the outer end thereof and journalled upon and arranged concentrically with said spindle, a flange extending substantially at right angles from and rotatable by the inner end of said spindle, an annular driving gear carried at the outer extremity of said flange and having internal teeth positioned substantially parallel to said tubular shaft, a tubular sleeve for supporting the second of said coaxial members on the outer end thereof and journalled upon and arranged concentrically with said tubular shaft, a flange extending from the inner end of said sleeve, pinions journalled upon said flange positioned adjacent said spindle flange and in mesh with said driving gear, a sun gear secured to the inner end of said tubular shaft, extending at about right angles thereto in line with said driving gear and in mesh with said pinions for rotating said tubular shaft in an opposite direction to said tubular sleeve.

2,531,033
CONTROL MEANS
Kingsley A. Doutt, Cortland, Ohio, assignor to Federal Machine and Welder Company, Warren, Ohio, a corporation of Ohio
Application June 24, 1949, Serial No. 101,158
13 Claims. (Cl. 219—4)

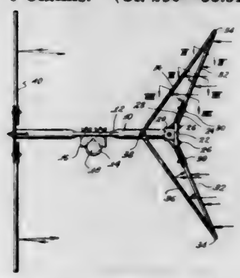


1. Means for controlling various functions of a machine having a movable member, comprising: a plurality of controls for controlling said functions, and means movable in accordance with the movement of said movable member, and adapted to selectively engage and operate said controls, all of said controls as a unit and said movable means having relative adjustment to vary the point of interengagement between said movable means and said controls as a unit, and said controls being adjustable relative to each other to vary the sequence of engagement with said movable means.

2,531,034
COMPOUND BLADE SYMMETRICAL OPENING CAMERA SHUTTER
Irving W. Doyle, Massapequa, N. Y., assignor to Fairchild Camera and Instrument Corporation, Jamaica, N. Y.
Application August 21, 1947, Serial No. 769,884
1 Claim. (Cl. 95—63)

A photographic shutter comprising in combination, a housing having an aperture formed therein and a chamber surrounding said aperture, a supporting ring fastened to said housing and encircling said aperture, a plurality of shutter blade pivot pins secured to and extending from said supporting ring, a shutter blade pivotally mounted on each of said pins and movable between open and closed positions relative to said aperture, each of said blades comprising at least two members which partially overlap one another when the shutter is closed and which are substantially superposed when the shutter is open, said blade members having crank arms of different length, a drive pin secured to the end of each of said crank arms, a drive ring for said shutter blades, said drive ring having an elongated slot for each of said pivot pins, said drive ring also having a slotted radially extended finger to receive each set of blade member drive pins, and a cover ring secured to said housing from said drive ring, said cover ring having holes formed therein through which said pivot pins extend respectively.

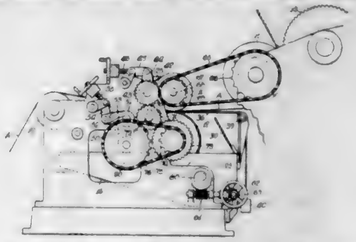
2,531,035
TELEVISION ANTENNA
Sol Epstein, Los Angeles, Calif.
Application February 21, 1950, Serial No. 145,380
6 Claims. (Cl. 250—33.51)



5. A television antenna having a forward side to be directed toward a signal source and including a support having an axis to be aligned generally with the direction of the signal source, and a folded dipole each arm of which includes a positive element extending outwardly and forwardly of said axis and a negative element constituting the folded portion extending laterally behind the positive element, and wherein the spacing between the elements is different at different points, said elements being adapted to increase the frequency range of the antenna.

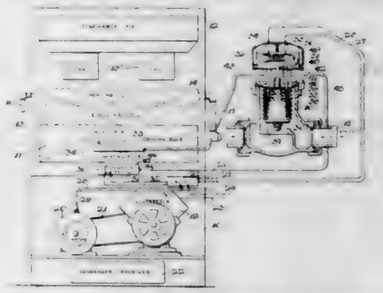
2,531,036
APPARATUS FOR APPLYING PATTERN FORMING MATERIAL
Walter J. Goettsch, Kenilworth, Ill., assignor to Samuel M. Langston Co., a corporation of New Jersey
Application July 26, 1946, Serial No. 686,339
2 Claims. (Cl. 91—12)

1. An apparatus for applying pattern forming material to an advancing sheet, including a container for the pattern forming material, a roller for applying said material, said roller having a horizontal axis and having its peripheral portion formed of a layer of resilient material with alternate longitudinally extending ridges and grooves in the outer surface thereof, each of said ridges presenting a smooth, substantially flat outer surface, said roller being positioned with its axis above and its lower portion beneath the level of the material in said container, a member contacting with the surfaces of said ridges after the latter move upwardly above the level of the material, thereby to wipe material from said surfaces, and means above said roller for pressing



an advancing sheet into contact with the surfaces of the ridges of the roller to transfer stripes of material from said grooves to said sheet.

2,531,037
CONTROL FOR AIR CONDITIONING SYSTEMS
William J. Hajek, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application January 2, 1948, Serial No. 276
3 Claims. (Cl. 257—3)



1. In a control for an air conditioning system having air heating and air cooling coils, a valve controlling the flow of the heating medium to the heating coil, a refrigerating unit for supplying a cooling medium to the cooling coil, an electric motor for driving the refrigerating unit, and an electric circuit for the motor, a thermostat operatively connected to said valve and subjected to the temperature of the air flowing over said coils for opening and closing said valve, and means associated with said thermostat and actuated by the closure of the motor circuit for operating said thermostat to maintain said valve in closed position as long as said motor circuit is closed.

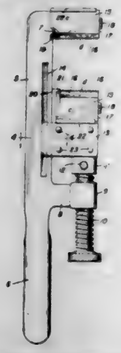
2,531,038
MECHANISM FOR TRANSFERRING A MAXIMUM DEMAND INDICATION FROM ONE INDICATOR TO ANOTHER INDICATOR WHEN THE FORMER IS RESTORED TO ITS INITIAL POSITION
Ret O. Hamill, New Era, Mich.
Application January 30, 1947, Serial No. 725,236
3 Claims. (Cl. 235—144)

1. In maximum demand indicating apparatus, the combination of a first indicator for indicating the maximum demand of the current month, a second indicator for indicating the maximum demand of the previous month, a demand actuated primary element for transmitting advancing movement to said first indicator; resetting mech-

anism comprising pin means manually rotatable along a circular path, two resetting arms located in the path of said pin means in such manner as to be actuated in succession, a sector gear and a cooperating pinion operatively interconnecting the first operated resetting arm and said second indicator to reset the latter to zero, and an additional sector gear and a cooperating pinion op-

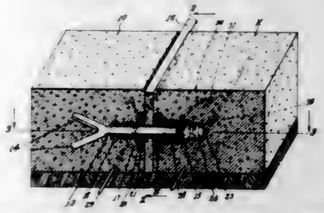
eratively interconnecting the second operated resetting arm and said first indicator to reset the latter to zero; and means operative during the resetting of said first indicator for causing said second indicator to be moved upscale through substantially the same range of movement that said first indicator is moved downscale in the resetting of the latter.

2,531,039
PIPE AND NUT WRENCH PROVIDED WITH REVERSIBLE JAW FACES
George C. Hardie, Brooklyn, N. Y.
Application September 29, 1947, Serial No. 776,723
1 Claim. (Cl. 81—180)



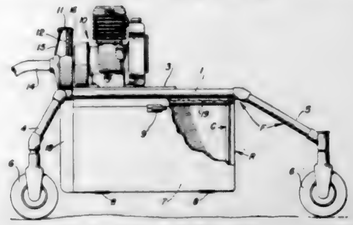
A wrench including a shank having a stationary outer rounded jaw member and formed with a recess at the inner end of said jaw member, a face plate having two flanges disposed at a right angle to each other and respectively provided with plane and toothed gripping faces, a centrally apertured disk connecting the flanges at the outer end of the face plate, the inner end of the face plate being movable in said recess, said disk being disposed against the outer end of the jaw member, and a pivot element extending through the disk and into the jaw member to mount the face plate on the jaw member for rocking adjustment about an axis parallel with said faces to bring either face into operative position, said jaw member having stop flanges at opposite sides thereof engageable by edges of the respective flanges of the face plate to limit rocking movement of the latter in opposite directions.

2,531,040
SEALED DOWEL BAR AND SHIELDED BEARING
John N. Heltzel, Warren, Ohio
Application July 3, 1946, Serial No. 681,375
4 Claims. (Cl. 94—18)



1. In a load transfer device, a dowel bar adapted to bridge the joint space between two concrete slabs, a tubular bearing affixed to one end portion of said dowel bar and having a bearing plate adapted to align with the edge face of one of the slabs, a sleeve shield of non-corrosive material having a disc at one end flanged over said bearing plate and embracing the free portion of said dowel bar, a socket of increased bore loosely receiving the free end portion of said dowel bar and non-corrosive shield assembly, said socket comprising an opposed tubular bearing and non-corrosive sleeve, said bearing having a bearing plate adapted to align with the edge face of the other slab and said last mentioned non-corrosive sleeve having a disc flanged over said last mentioned plate and extending through the bore of said last mentioned bearing and having a closed end spaced from the free end of the dowel bar to form a liquid containing chamber, whereby liquid will be forced between the non-corrosive sleeves upon movement of the free end of the dowel bar in said chamber.

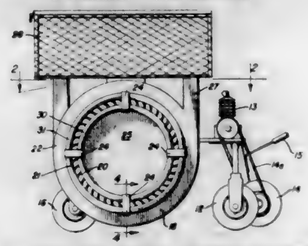
2,531,041
PNEUMATIC COTTON HARVESTER
Raymond Henry, Moline, Ill.
Application October 25, 1948, Serial No. 56,378
1 Claim. (Cl. 56—13)



In a pneumatic cotton harvester, the combination which comprises a substantially horizontally disposed frame, wheels mounted on depending legs of the frame and supporting the frame in an elevated position, a box-like hopper, the upper end of which is open, carried by and depending from said frame, a removable cotton receiving container positioned in said hopper, a wire mesh cover extended over the said hopper, a horizontally disposed platform positioned on said frame, a motor mounted on said platform, a blower having a centrally disposed inlet connection and a peripheral discharge mounted on one end of said platform and positioned with the said discharge in communication with the interior of the said hopper and container therein,

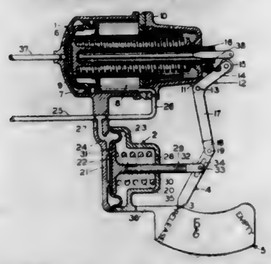
and a hose with a cotton suction nozzle on the outer end extended from the said inlet connection of the blower.

2,531,042
PNEUMATIC COTTON HARVESTER
Raymond Henry, Moline, Ill.
Application September 8, 1949, Serial No. 114,577
8 Claims. (Cl. 56—12)



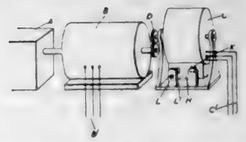
1. A machine for picking cotton comprising, in combination, transporting means, a frame supported thereby, a platform on said frame, a plurality of power units mounted on said platform, a plurality of casings supported by said platform, a shaft extending from each of said power units into a casing, there being but one power unit to a casing, and a high speed rotary fan mounted coaxially on each shaft, said fans having outwardly extending blades around their outer parts, said casings having ring-shaped openings through one flat wall thereof concentrically placed with relation to the fans, so that, as the fans rotate, air is drawn into the casings to replace the air forced out by the blades of the fans, said casings having peripheral channels around the fans for reception of the air and cotton driven outwardly by the fans, the air being forced outwardly by the fans at such a velocity that the air entering the ring-shaped openings will carry along with it the cotton on the plants in a field.

2,531,043
INDICATING APPARATUS FOR LOAD COMPENSATING FLUID PRESSURE BRAKE EQUIPMENT
Ellis E. Hewitt, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application February 18, 1949, Serial No. 77,226
7 Claims. (Cl. 303—1)



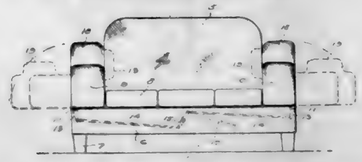
1. In combination, a load compensating fluid pressure brake cylinder device, a pivoted indicating arm, for indicating the degree of braking provided by said cylinder, mechanism comprising a mechanical linkage operatively connecting said arm to said cylinder device for effecting rocking of said arm through a chosen angle in response to operation of said cylinder device, and a fluid pressure operated means operatively connected to said arm for effecting rocking of said arm through an additional chosen angle after said arm is rocked through said first chosen angle.

2,531,044
ELECTRIC MOTOR
John Warren Hibbert, Gateshead, and Alexander Thornton Robertson and Clifford Beveridge, Newcastle-on-Tyne, England, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain
Application January 21, 1947, Serial No. 723,418
In Great Britain January 23, 1946
4 Claims. (Cl. 318—46)



1. Electric driving means for operation at normal speeds as well as at a much lower creeping speed, including a driven element, a main driving assembly comprising a polyphase variable-speed electric commutator motor operatively connected to drive said driven element, a control assembly for use at creeping speeds including an electric induction machine operatively connected to drive said driven element, means to supply current to the main assembly at a normal frequency when operating at normal speeds, and, when starting and operating at creeping speeds, means to supply current at a normal frequency to the main assembly and simultaneously to supply to the control assembly current at a frequency much lower than the said normal frequency, so that the control assembly will produce a motoring torque at standstill, falling rapidly with increase of speed to zero in the neighbourhood of the synchronous speed corresponding to the said low frequency, and a rapidly rising braking torque with further increase of speed.

2,531,045
SOFA HAVING ANGULARLY ADJUSTABLE ENDS
Alfred H. Hoffman, Monroe, Mich.
Application June 7, 1946, Serial No. 674,989
2 Claims. (Cl. 155—113)

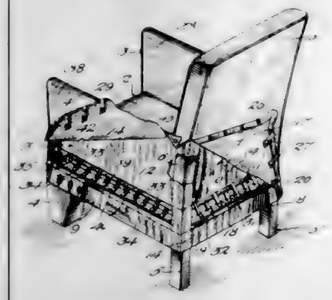


1. A sofa comprising a back and a bottom structure, opposed sides pivoted at their lower outer edges to the bottom for outward and downward swinging movement, complementary locking means carried by the ends of the back and the inner portions of the sides for maintaining the sides in a raised vertical placement against the ends of the back, a common operating linkage in the bottom and connected to the sides for effecting simultaneous movement of the sides on a horizontal axis upon downward actuation of one of the sides and means attached to the linkage and the bottom for selectively retaining the sides in a lowered horizontal placement.

2,531,046
DEFLUORINATION OF PHOSPHATE ROCK
Clinton A. Hollingsworth, Lakeland, Fla., assignor to Coronet Phosphate Company, New York, N. Y., a corporation of New York
No Drawing. Application April 26, 1946, Serial No. 665,347
5 Claims. (Cl. 71—38)

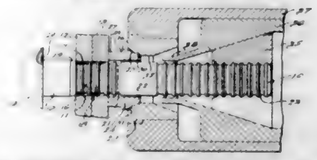
1. The method of defluorinating phosphate rock containing fluorapatite which comprises finely grinding the rock and forming it into porous agglomerates, heating the porous agglomerates of finely-ground rock to a temperature of at least 1800° F. but not so high that substantial fusion takes place, heating the agglomerates to maintain them at such temperature and simultaneously subjecting them to intimate contact with a chloridizing agent selected from the class consisting of hydrochloric acid gas and chlorine gas, replacing the chloridizing agent consumed in the operation as rapidly as it is consumed, continuing the treatment of the agglomerates at such temperature in intimate and continuous contact with the chloridizing agent for a period of at least ten minutes and until the fluorine in the fluorapatite is replaced by chlorine and evolved as hydrofluoric acid gas to an extent such that the fluorine content of the agglomerates is reduced to less than 0.3%, and then withdrawing the resultant chlorapatite from the chloridizing and heating zone, the agglomerates undergoing treatment being sufficiently porous to permit effective penetration of the chloridizing agent and free escape of the evolved hydrofluoric acid.

2,531,047
CHAIR COVER
Galen H. Holsinger, Quakertown, Pa.
Application March 19, 1946, Serial No. 655,575
2 Claims. (Cl. 155—182)



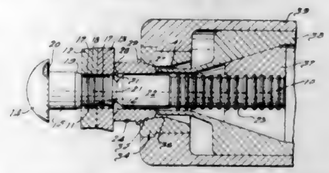
1. In an upholstered chair, a frame including horizontal back, front and side rails arranged in coplanar relation, rear corner uprights connected by said back rail, a rear cross bar connecting said uprights above said back rail and spaced therefrom, a stuffed back between said uprights spaced therefrom above said cross bar and fastened to said cross bar, stuffed arms spaced above the side rails, a stuffed seat fitting between said arms and spaced above said rails, a back covering section having a front bottom edge with strap fasteners fixed to the back rail in the space between said cross bar and back rail and also having side edges fastened to said corner uprights in the spaces between said back and uprights, arm covering sections having inner bottom edges with strap fasteners fixed to the side rails in the spaces between said arms and side rails, and a seat covering section having strap fasteners extending downwardly into the space between said arms and side rails and fixed to said side rails.

2,531,048
FASTENING DEVICE
Louis C. Huck, Detroit, Mich., assignor, by mesne assignments, to Huck Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application December 29, 1945, Serial No. 638,081
3 Claims. (Cl. 85—5)



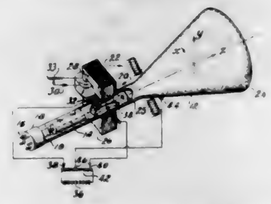
1. A fastener for use in attaching together a plurality of members having aligned openings comprising a pin having a head for engaging the outer side of one member, said pin having a cylindrical portion axially next to the head and adapted to extend through the openings to engage the walls thereof, an externally and circumferentially grooved portion next to the cylindrical portion and adapted to be located substantially at the outer side of the other member, a stem portion at the end opposite the head for enabling gripping and pulling the pin, an annular section weaker than the remaining portion of the pin providing a breakneck between said grooved portion and the stem portion, and a collar disposable on the pin over the stem end in embraceable relation with said pin and adapted to be swedged into the grooves when the fastener is set by pulling the pin, said collar having a substantially uniform internal diameter substantially that of said openings, the peripheral surface of the collar opposite the head terminating in a frusto-conical surface, the wall thickness of the collar throughout its length being such that substantially the entire length of the collar may be swedged into said grooves.

2,531,049
FASTENING DEVICE
Louis C. Huck, Grosse Pointe, Mich., assignor to Huck Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 8, 1949, Serial No. 80,183
3 Claims. (Cl. 85—5)



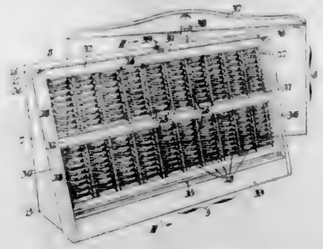
1. A fastener for use in attaching together a plurality of members having aligned openings comprising a pin having a head for engaging the outer side of one member, said pin having a cylindrical portion axially next to the head and adapted to extend through the openings to engage the walls thereof, an externally and circumferentially grooved portion next to the cylindrical portion and adapted to be located substantially at the outer side of the other member, a stem portion at the end opposite the head for enabling gripping and pulling the pin, an annular breakneck between said grooved portion and the stem portion, and a collar disposable on the pin over the stem end and in embraceable relation with said pin and adapted to be swedged into the grooves when the fastener is set by pulling the pin, said collar having a substantially uniform internal diameter substantially that of said opening, the end portion of the collar facing the head being of decreasing cross-sectional area toward the head and being relatively weaker to axial compression than the remaining portion of the collar when the collar is being swedged.

2,531,050
ION TRAP
Rudolf G. E. Hutter, Flushing, N. Y., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application November 30, 1946, Serial No. 713,243
9 Claims. (Cl. 250—158)



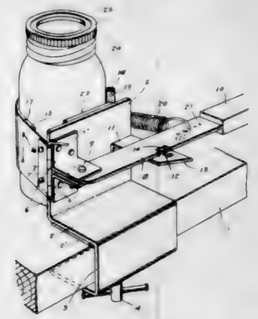
1. The method of separating desired particles of a given charge-to-mass ratio from a composite beam containing particles of other ratios of charge to mass which comprises the steps of subjecting the composite beam to magnetic field generally transverse of the initial axis of the beam and electrostatically substantially nullifying the deflecting influence of the transverse component of said magnetic field on the desired particles at each point along the axis.

2,531,051
MERCHANDISE CHECKING DEVICE
Perry B. Jeffers, Philadelphia, Pa.
Application November 29, 1946, Serial No. 713,148
1 Claim. (Cl. 45—2)



An open front cabinet comprising a back wall with complemental side walls having their front and rear edges respectively inclined at dissimilar angles relative to the vertical; a transverse component connecting the side walls at the top, said component having its terminal portions transversely rabbeted at the underside to seat on the upper edges of the side walls; rear and front bracers rigidifying the cabinet at the bottom; transverse bars intermediate the top and bottom of the cabinet said bars being spaced inwards relative to the front and rear inclined edges of the cabinet side walls, with the lower of said bars seated on top of the front bracer; an intermediate inclined partition fitting in opposed grooves in the cabinet side walls and in the transverse component; vertically-spaced shelf-like elements, each including a front notch and having their rear edges in abutment with the inclined partition; interval dividers respectively between the top component and the transverse bars to jointly define a series of columns of comparatively shallow pigeon-holes for the reception of individually associated identifying checks, each said check being of a contour and size for easy insertion and withdrawal; and a front closure, engageable in opposed grooves in the cabinet side walls, for the cabinet when not in use and also serving to prevent the checks from accidental dislodgment or falling out of the respectively associated pigeon-holes when the cabinet is moved about.

2,531,052
SURFACE MOUNTED JAR HOLDER
Thomas Lawrence Kehoe, Fort William, Ontario, Canada
Application December 17, 1947, Serial No. 792,235
2 Claims. (Cl. 81—3.32)



1. A jar and sealer retainer, comprising: a rectangular-shaped flat standard releasably securable to a table top or the like; a lever pivoted to one side of said standard for horiozntal movement in or away from said standard and extending therepast; said lever passing over a bracket-shaped plate carried by said standard; said lever having a lengthwise line series of holes at said extending portion thereof; a strap member having one end hinged to one side of said standard and formed in a container-encircling loop on the side of said standard remote from said lever; the free end of said strap releasably connected by a coil spring with one or other of said line series of holes in said lever; a tongue projecting from said lever; said bracket-shaped plate having a series of openings; and said tongue receivable in one or other of said openings for holding said lever in a selected position.

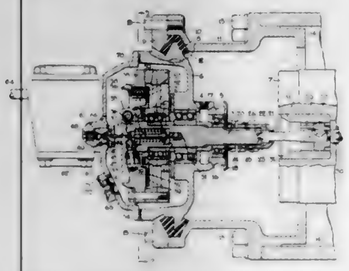
2,531,053
FASTENING FOR BRACELET-WATCH STRAPS
Edmond Kehrer, La Chaux-de-Fonds, Switzerland
Application September 20, 1945, Serial No. 617,528
In Switzerland June 4, 1945
1 Claim. (Cl. 24—265)

A strap fastener for connecting a flat spirally-wound meal strap to a wrist watch comprising a one-piece U-shaped clamp having an outer strap shaped so as to conform to the flat spiral windings of said strap and an inner jaw of less width

than said outer jaw, said outer jaw having side forming flanges running along the outside edges of said inner jaw and said jaws forming together an eye, a hook, a connection piece engaging said eye and said hook to hinge the latter to said clamp, a flat member insertable between said flanges and said inner jaw for tightening said

clamp on said flat spirally-wound metal strap inserted between said two jaws, said inner jaw having its free end bent towards said outer jaw so as to engage the space between two turns of said flat spirally-wound metal strap, and said jaws being of sufficient length whereby a length of reserve strap can be lodged therebetween.

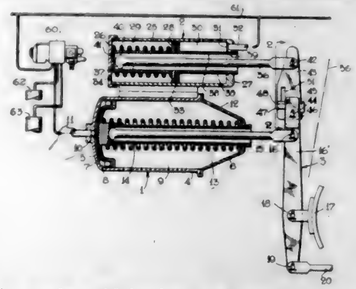
2,531,054
ROTARY INERTIA DEVICE
Cecil S. Kelley, Forest Hills, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 11, 1948, Serial No. 26,332
10 Claims. (Cl. 264—11)



7. A rotary inertia device comprising a rotary driving element, a fly-wheel rotatably mounted with respect to said rotary driving element, an annular member rotatably mounted with respect to both of said rotary element and said fly-wheel, means establishing a driving connection between said driving element and said annular member including a control member operatively responsive to relative rotary movement between the annular member and the driving element, and means carried by said fly-wheel cooperating with said annular member to cause said fly-wheel and said annular member to rotate together and on occasion to permit relative rotary movement between the fly-wheel and the annular member.

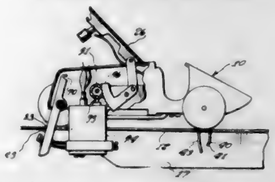
2,531,055
BRAKE APPARATUS
Walter B. Kirk, East McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 23, 1947, Serial No. 793,567
7 Claims. (Cl. 188—107)

1. In a fluid pressure brake equipment for a vehicle, the combination with a brake pipe, of brake cylinder means operative by fluid under pressure to apply brakes on said vehicle, brake controlling means operative upon a reduction in pressure of fluid in said brake pipe for effecting supply of fluid under pressure to said brake cylinder device, and spring means operative upon a reduction in pressure of fluid in said brake pipe



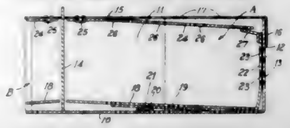
also to apply said brakes and rendered ineffective upon an increase in such pressure.

2,531,056
MECHANICAL IGNITER
Herman Koesten, New York, N. Y.
Application March 1, 1949, Serial No. 78,923
5 Claims. (Cl. 67—4.1)



1. A mechanical cigarette lighter having a configuration of a movable automobile toy comprising, lighter means and cooperating activating means; said lighter means being included within said toy automobile and comprising a flint, a flint wheel, a fuel source adapted to be ignited upon the rotation of said flint wheel, means for rotating said wheel, and a ram connected to said wheel rotating means; said activating means for initiating the rotation of said flint wheel comprising a platform, a stop placed at the end thereof, which stop is adapted to be struck by said ram of said toy automobile so as to activate said flint wheel so to ignite the fuel contained within said toy automobile.

2,531,057
VENTILATION CONTROLLING DEVICE FOR CHICK BOXES
Herman J. Kneubuehl, Sterling, Ohio
Application August 10, 1949, Serial No. 109,461
10 Claims. (Cl. 119—19)

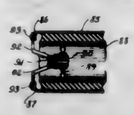


1. In a chick box having a bottom, side walls and perforate end walls, and partitions dividing the interior of the box into compartments, a platform fulcrumed intermediate its ends upon the bottom of each compartment and an upright flap at the outer end of the platform having openings therein arranged to register with the openings in the end wall when the outer end of the platform is tilted down and to be moved out of alignment when the plattform is tilted in the opposite direction.

2,531,058
CLOTHESPIN-RECEPTACLE SUSPENSION
Frank S. Kralovic, Parma, Ohio
Application May 3, 1946, Serial No. 667,154
2 Claims. (Cl. 150—1.8)

1. In combination, a rigid riser and a ring comprising complemental halves pivoted at diametrically opposite points to each other and to an intermediate portion of said riser respectively, said ring halves being L-shaped adjacently to said riser and adapted, when in ring-completing position, to abut the lower end of said riser and a catch carried by said riser for embracing the ring halves when folded.

2,531,059
MEANS AND METHOD FOR TREATING RUBBER SPRINGS
Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 12, 1944, Serial No. 522,079
6 Claims. (Cl. 18—48)



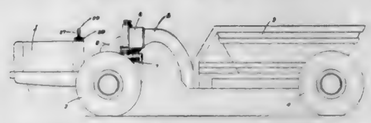
1. The method of treating an assembly of parts for providing a torsion spring having inner and outer supporting and loading members with a cushioning body of resilient rubber-like material therebetween and bonded thereto to reduce tendency of the spring to creep rotatively in use, which method comprises subjecting the assembly to a molding and vulcanizing operation under heat and pressure, loading the cushioning body while it still retains heat of the molding and vulcanizing operation but prior to installation of the spring by relative rotative displacement of said members, securing the members in their displaced relation, insulating the spring to delay cooling of the spring over a period of time preceding the installation of the spring sufficient to reduce the tendency to creep after installation, and installing the spring after the tendency to creep has been reduced.

2. A torsion spring package transportable between manufacture and installation comprising a spring having inner and outer members with a body of resilient rubber-like material therebetween and bonded by vulcanization thereto, and means transportable with the spring for engaging said inner and outer members of the spring to maintain the inner and outer members rotatively displaced relative to each other with said resilient material in a relatively stressed condition, said means comprising a holding structure mounted in gripping relation to the inner member and extending radially outward at an end of the spring and having an outer portion mounted in gripping relation to the outer member of the spring for resisting relative rotation of said members in the torsionally stressed condition.

2,531,060
ADAPTER FOR COLLAPSIBLE TUBE WINDING KEY FOR VARYING TAPER OF KEY
Albert A. F. Krueger, New York, N. Y.
Application June 30, 1947, Serial No. 757,967
4 Claims. (Cl. 222—99)

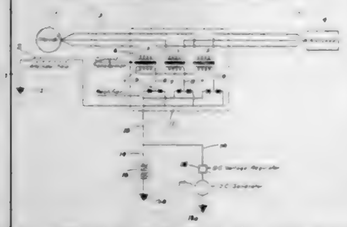
1. An article of the class described comprising a tubular winding portion tapered in diameter from one end to the other, said tubular winding portion being formed with a slit for receiving the closed end of a collapsible tube from which the cream contents are to be dispensed, a handle portion integrally formed with the enlarged end of said tubular winding portion and forming a tapered extension thereof and by which the tubular portion may be turned for winding the collapsible tube thereon, and means between said tubular winding portion and said handle portion for preventing the turns of the collapsible tube from moving over and covering said handle portion, and a hollow adaptor having a taper different from the taper of said tubular portion engageable over said tubular winding portion.

2,531,061
TWO-SPEED POWER STEERING MECHANISM AND SWITCH CONTROL MOUNTING THEREFOR
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application January 15, 1946, Serial No. 641,265
5 Claims. (Cl. 180—79.1)



1. Steering control mechanism for a vehicle combination which includes a tractor, a trailer, a power steering mechanism connecting the tractor and trailer, said steering mechanism being responsive to said control mechanism, an operator's seat on the tractor, and a hand grip on the tractor accessible from the operator's seat; the hand grip being of upstanding, transverse, arch type and said steering control mechanism including upstanding, finger movable elements mounted on the tractor adjacent and in a position relative to the hand grip so that said elements may be actuated by the fingers of an operator's hand grasping said grip and without releasing the latter.

2,531,062
VOLTAGE REGULATING SYSTEM
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application April 9, 1948, Serial No. 19,991
2 Claims. (Cl. 322—27)

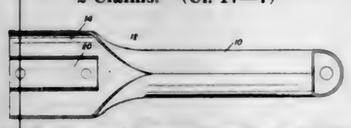


1. In a regulating system of the character described, an alternating current generator having a voltage generating winding, with an associated field winding, a pair of serially connected rectifiers arranged to pass current in the same direction simultaneously, a battery, said battery, field winding and rectifiers being connected in a serial circuit whereby said battery causes a current to flow through said rectifiers and said field winding, a current transformer, the primary winding of said current transformer being serially connected with said generating winding whereby the generator load current flows through said primary winding, the junction point of said pair of serially connected rectifiers being connected to one terminal of the secondary winding of said transformer, the other terminal of said secondary winding being connected to a point in said serial circuit.

2,531,063
CONDENSATION OF ACYL POLYMERS WITH AROMATIC HYDROCARBONS
Eugene Lieber, Chicago, Ill., and Aloysius F. Cashman, Staten Island, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 29, 1947, Serial No. 788,964
10 Claims. (Cl. 260—590)

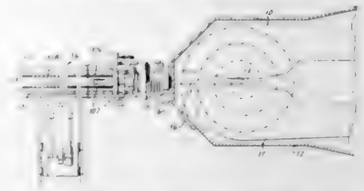
1. A process for preparing a condensation product of an acyl polymer and a monomeric aromatic hydrocarbon which comprises auto-condensing a fatty acid chloride of at least 10 carbon atoms in the presence of aluminum chloride at a temperature of about 600° F. for a period of time of about 2½ hours and condensing the fatty acyl polymer thus formed with said monomeric aromatic hydrocarbon in the presence of a Friedel-Crafts catalyst and an inert solvent at a temperature of at least 150° F. for a period of about 2 hours.

2,531,064
DEVICE FOR CLEANING FISH
Richard H. Lindsey, Detroit, Mich.
Application December 26, 1947, Serial No. 793,798
2 Claims. (Cl. 17—7)



1. An implement for scaling fish comprising, a body of sheet metal fashioned to provide a substantially tubular handle portion with the edges of the sheet metal in substantially abutting relationship, the said edges, adjacent one end of the body, having parts diverging from each other and having end parts spaced from each other in parallel manner to form a concave-convex shield, and blade means in the concavity of the shield and comprising, a sheet metal element formed into elongated U-shape open at both ends, means securing the bight portion of the blade means to the shield, the legs of the U projecting beyond the spaced parallel edges of the concave-convex shield and said edges being serrated for engaging and removing the scales.

2,531,065
APPARATUS FOR CHANGING THE ION SOURCE OF A CYCLOTRON
John J. Livingood, John V. Peters, and Royal A. Streeter, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application April 27, 1950, Serial No. 158,512
16 Claims. (Cl. 250—27.5)

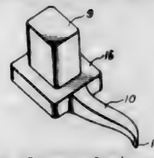


3. In a cyclotron having a tubular anode with an upwardly extending portion adjacent the inner end thereof and a tubular cathode received within said anode, means for removing said cathode comprising, a longitudinal track extending outwardly from one end of said cyclotron, a carriage received on said track and connected to the outer end of said cathode, an air lock about the outer end of said cathode, driving means for moving said carriage along said track, and a door movable across the open end of said anode after said cathode has been removed therefrom, prior to removing said cathode from said air lock.

2,531,066
SPRING-HINGED TWO-PART RECEPTACLE
John J. Lynch, Metuchen, N. J.
Application July 26, 1945, Serial No. 607,203
6 Claims. (Cl. 220—35)

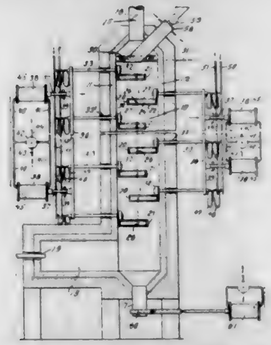
1. A receptacle comprising like housing members, each member being shaped to provide a hub and a hub contacting seat in axial alignment, a slot in each member intermediate hub and seat, and extending laterally therefrom, a pintle passing through the hubs when the members are reversely united and flexible means extending laterally from said pintle to engage the slot in each member and secure said members in receptacle forming relation and yieldably resist relative opening movement thereof.

2,531,067
PHONOGRAPH NEEDLE
Frank Massa, Cleveland Heights, Ohio
Application April 17, 1946, Serial No. 662,792
3 Claims. (Cl. 274—38)



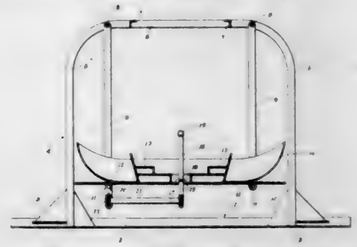
2. As an article of manufacture, a phonograph needle including a plastic shank adapted to be engaged by the chuck of a phonograph pickup, an offset portion formed integrally with the shank and a separately formed needle tip secured to the end of the offset portion, the shank having an enlarged shoulder formed at the juncture of the offset portion and the shank to serve as a stop when the shank is inserted into the chuck, the shank also having a flat portion to prevent rotation thereof in the chuck.

2,531,068
DEFLUORINATING PHOSPHATIC MATERIAL
Ernest J. Maust, Lakeland, Fla., assignor to Coronet Phosphate Company, New York, N. Y., a corporation of New York
Application June 25, 1946, Serial No. 679,178
7 Claims. (Cl. 71—44)



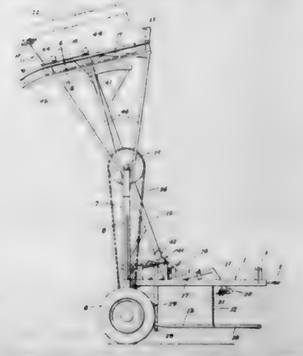
1. In the method of defluorinating phosphatic material in which the finely divided material is subjected to the action of water vapor at elevated temperature, the improvement which comprises supporting a plurality of layers of the finely divided material on porous hearths in vertically spaced positions within a vertical heating chamber, maintaining a temperature of between 1800° F. and 2500° F. in the heating chamber, progressively moving the material downwardly through said chamber from one hearth to the next lower hearth, passing finely disseminated water vapor upwardly through the porous hearths and the entire mass of each layer of the material while supported as aforesaid, introducing fresh material onto the uppermost hearth, discharging treated material from the lowermost hearth into the higher end of an inclined rotary kiln, heating said kiln by the combustion of fuel at its lower end, passing the hot combustion gases from the kiln upwardly through said vertical heating chamber, and maintaining an atmosphere of water vapor and a temperature exceeding 2500° F. within said rotary kiln.

2,531,069
CHILD'S SWING
Jackson T. McCarty, Stockton, Calif.
Application February 5, 1947, Serial No. 726,711
1 Claim. (Cl. 155—63)



A swing comprising an upstanding main frame, longitudinally spaced pairs of transversely spaced links pivoted on and depending from the main frame, one pair of links being longer than the other, a platform, seats on the platform, a pair of laterally projecting trunnions on each end of the platform, one pair of trunnions being journaled in the lower ends of the shorter pair of links, and the other pair of trunnions being journaled in the longer pair of links at a point above their lower ends, a cross shaft extending between and rigidly secured to the lower ends of said longer pair of links, a lever journaled substantially centrally of and projecting below the platform, a link pivoted at one end to the lower end of the lever, and a bearing on the other end of said last named link, said shaft projecting freely through said bearing.

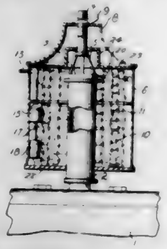
2,531,070
BALED HAY LOADER
Darwin D. McDermott, San Jose, Calif.
Application November 7, 1949, Serial No. 126,027
19 Claims. (Cl. 214—147)



1. A baled hay loader comprising a main frame adapted for movement along but above the ground adjacent a vehicle having a bed, a mast on the main frame, a rotary frame journaled on the mast for rotation in a longitudinal vertical plane, a bale gripping unit on the rotary frame adapted to be swung by the latter between a bottom position adjacent the ground and a top position in a plane above the vehicle bed, the bale gripping unit in bottom position being operative to engage and grip a ground supported bale upon motion of the frame thereover, normally disengaged driving connections adapted to actuate the rotary frame to swing the bale gripping unit from bottom

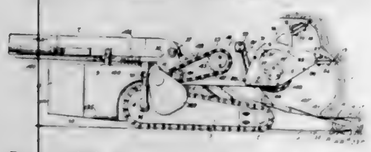
position to top position, said bale gripping unit when in top position being operative to release a gripped bale, and means to actuate the driving connections

2,531,071
MOIST AIR FILTER
Reuben S. McKinzey, Lawton, Okla.
Application May 7, 1946, Serial No. 667,957
1 Claim. (Cl. 261—107)



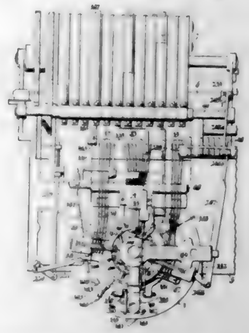
In a motor vehicle air filter, the combination which comprises a vertically disposed centrally positioned tube having an opening in the lower end for positioning the tube over the intake of a carburetor, a spider having spaced ribs extended upwardly and inwardly from the upper end of the tube, a vertically positioned bolt carried by the upper end of the spider, a cylindrical housing spaced from and positioned around the tube, said housing having upper and lower ends with a centrally disposed opening in the lower end for receiving the tube and with an upwardly extended inverted cup-like centrally positioned section in the upper end and said cup-like section extended upwardly over the spider on the upper end of the tube and resting upon the upper end of said spider, a conical shape cap positioned on the upper end of the housing with the said bolt on the spider extended therethrough, a thumb nut on said bolt for clamping the cap against the end of the housing, spaced vertically disposed cylindrical shape partitions of absorbent material positioned in the housing for suspending moisture from water in the lower end of the housing in the upper part thereof, comparatively large mesh wire cylinders covering the surfaces of said partitions with the openings therein permitting free passage of air through the said partitions, said housing having spaced inlet openings covered with wire mesh in the upper end thereof, and a float control valve having a water inlet pipe extended therefrom for maintaining water at a predetermined elevation in said housing.

2,531,072
APPARATUS FOR MINING COAL OR SIMILAR MINERAL
George A. Merchant, River Forest, Ill., assignor to Safeway Mining Machine Corporation, Chicago, Ill., a corporation of Delaware
Application May 4, 1948, Serial No. 25,015
19 Claims. (Cl. 262—9)



3. In a mining machine, a frame movable toward the face of a mineral to be mined, a shaft rotatably mounted on said frame, an eccentric on said shaft, a first member journalled on the periphery of said eccentric and carrying a forwardly directed pick head, a second member attached to a side of said first member and having a portion engaging a side face of said eccentric, said second member carrying a forwardly directed pick head vertically spaced from said first pick head and being adjustable relative to said first member about the center of said eccentric, and said second member having a rearwardly extending portion guided for movement along a path generally fore and aft of said frame.

2,531,073
SINKER CONTROL MECHANISM FOR CIRCULAR KNITTING MACHINES
Eugene F. Miller, Winston-Salem, N. C., assignor to Hanes Hosiery Mills Company, Winston-Salem, N. C., a corporation of North Carolina
Original application January 16, 1946, Serial No. 641,504. Divided and this application March 22, 1948, Serial No. 16,295
7 Claims. (Cl. 66—108)



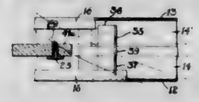
1. In a circular knitting machine a rotary cylinder with needles and cooperative sinkers; a main knitting station with a feed for feeding a main yarn and with a stitch cam for actuating the needles to knit the main yarn; a plurality of auxiliary knitting stations circumferentially spaced from each other and from the main station around the cylinder, each such auxiliary knitting station having a retractable feed for an auxiliary yarn and an auxiliary stitch cam for actuating the needles to knit the auxiliary yarn; an auxiliary sinker actuating cam at each auxiliary station normally occupying a definite position relative to the corresponding stitch cam during normal knitting; and means instrumental, upon insertion of the auxiliary yarn feeds, in causing the auxiliary sinker actuating cams to be rotatively shifted slightly temporarily relative to the stitch cams in the direction of cylinder rotation and so preclude pinching of the newly-introduced auxiliary yarns by the sinkers.

2,531,074
PNEUMATIC MASSAGE
Gerald W. Miller, Oblong, Ill.
Application June 3, 1947, Serial No. 752,151
1 Claim. (Cl. 128—38)

A device for massaging a person's leg and foot comprising a plurality of individual expansible cells, a cover retaining said cells in an assembly to form a sheath for a person's leg and foot, means secured to said cover for opening and closing said cover, means for conducting fluid to and from said cells, said last-mentioned means including sleeves extending through said cover and communicating with said cells, tubes extending from said sleeves, a spider having said tubes attached thereto, a conduit attached to said spider to direct fluid into said spider and to conduct the

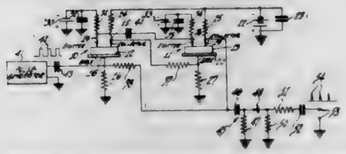
fluid from said spider, and a resilient pad in the lower part of said cover adapted to engage the upper portion of the foot, at least one of said cells being disposed in the lower part of said cover and arranged to support the foot during inflation and deflation of said cells.

2,531,075
METAL DOOR FRAME CONSTRUCTION
Karl H. Miller, North Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio
Application December 8, 1945, Serial No. 633,802
7 Claims. (Cl. 189—46)



1. In a sheet metal door frame having channel-shaped side and top jamb members, a flanged bracket secured within each side jamb member and having a T-shaped slot, ceiling struts passing through said slots and each having a cross sectional T shape for receiving the edge of a lath panel against the stem of the T, means wedgeably securing said struts in said slots, and spacer clips secured in said side jamb members and including flanges extending transversely of the jamb member legs having notches in said flanges aligned with said T-shaped slots for receiving the edges of said lath panels within said side jamb members.

2,531,076
BISTABLE SEMICONDUCTOR MULTIVIBRATOR CIRCUIT
Raymond P. Moore, Jr., West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 22, 1949, Serial No. 123,076
7 Claims. (Cl. 171—97)



1. A bistable multivibrator circuit comprising a first and a second semi-conductor device, each having a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with each body, a source of potential, a first pair of impedance elements, each being connected between one terminal of said source and one of said collector electrodes, a second pair of impedance elements, each being connected between the other terminal of said source and one of said base electrodes, said source being so poled as to apply a reverse bias potential between each collector electrode and its associated base electrode, means for applying a forward bias potential between each emitter electrode and its associated base electrode, a first pair of resistors, each being connected between the base electrode of one of said devices and the collector electrode of the other device to provide regenerative feedback paths and a further coupling impedance element interconnecting said emitter electrodes.

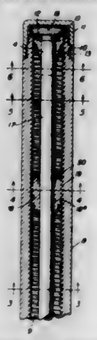
2,531,077
PIPE QUARTERING DEVICE
Douglas E. Mullin, Minneapolis, Minn.
Application October 19, 1946, Serial No. 704,442
1 Claim. (Cl. 33—189)

A quartering device for a pipe having in combination, an elongated member of much greater length than width adapted to extend quite a distance longitudinally of a pipe and formed as an angle on its lower side, the sides of said angle being adapted to engage said pipe along spaced lines, a disc-like member upstanding at one end of said device and having a projecting boss at its center, said disk-like member having a cylindrical flange extending thereabout directed toward said end of said device, a pointer adapted to swing by gravity pivoted to said boss centrally of said member within said flange, said member having circumferentially spaced graduations thereon and said flange having circumferentially spaced notches therein alined with said graduations, a tube upstanding from the opposite end of said elongated member disposed centrally transversely thereof and having a vertical cylindrical bore therein, a punch slidable in said bore having its upper end disposed above said tube, and resilient means holding said punch in its upper position but permitting downward movement thereof when struck to mark said pipe.

2,531,078
PISTON FOR FOUNTAIN PENS
Bernt Nilsen, Barranquilla, Colombia
Application June 17, 1948, Serial No. 33,497
1 Claim. (Cl. 120—47)

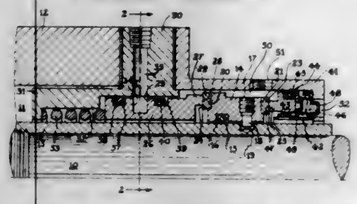
A fountain pen of the class described comprising an open-ended barrel having a cylindrical bore, the wall of said bore being screw-threaded, a sleeve defining a piston, said sleeve being externally screw-threaded and screwed into the screw threads of said bore and operable back and forth in the bore, the bore of said sleeve being oval in cross section, a piston feeding rod having a portion oval in cross section extending through the oval bore in said sleeve, said rod being located centrally in the bore of said barrel, a screw-threaded bushing screwed into one end of the barrel, said bushing having an axial cylin-

drical passage, said rod passing through and being rotatable in said passage, that portion of the rod passing through said cylindrical passage being cylindrical in cross section, a pen nib and ink-feeding means mounted for operation in the other end of said barrel, the end of said rod beyond the normal upper end of said barrel being provided with a thumb knob, said barrel terminating in an externally screw-thread-



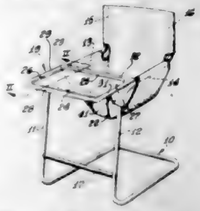
ed neck, and a screw cap threaded on said neck and enclosing said thumb knob, the upper end of the portion of the sleeve surrounding said rod being recessed and providing a socket, and the portion of said bushing surrounding said rod being reduced and adapted to telescope into said recess, whereby to effect a liquid-tight seal between the bushing and sleeve when latter are in positive abutting relationship.

2,531,079
COOLED AND LUBRICATED ROTARY SEAL
Frank E. Payne, Glencoe, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application February 18, 1948, Serial No. 9,084
6 Claims. (Cl. 286—9)



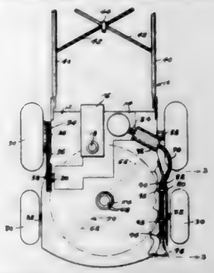
1. A sealing device for effecting a seal between a shaft and a housing therefor, said device comprising a removable sleeve fixed to said shaft, a collar encircling the sleeve and having radially disposed sealing surfaces on each side, means for preventing relative rotation between the collar and shaft, resilient deformable sealing means effecting a seal between the collar and sleeve, a sealing washer on one side of the collar and having a sealing surface abutting on the adjacent sealing surface of said collar, means for effecting a seal between the washer and housing, means for cooling the washer, a second sealing washer, said second sealing washer contacting the other sealing surface on the collar, means on the housing enclosing the collar and sealing ing means in contact with the ring and sealing washers, resilient deformable means for effecting a seal between the second sealing washer and the enclosing means, and lubricant in the enclos-
washers.

2,531,080
CHAIR TRAY
Albin K. Peterson and Hampden Wentworth, Redondo Beach, Calif., assignors to Longren Aircraft Company, Torrance, Calif., a corporation of California
Application May 22, 1948, Serial No. 28,626
4 Claims. (Cl. 155—127)



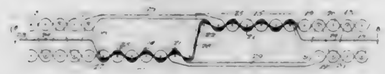
1. A removable tray arranged for use with a child's chair, having a pair of forwardly and downwardly curving arms connected by a cross member above the level of the seat of such chair, comprising: a body portion having a depressed central area; a downwardly extending lip along the rear margin of the body portion, said lip cooperating with a wall of the depressed central area to form a groove in the lower surface of the tray arranged to receive the cross member of the chair; a downwardly extending bracket at each side of the tray, each of said brackets being provided with an inwardly extending curved flange having a margin arranged to abut a downwardly curved portion of a chair arm at a point in front and below the level of the cross member; and resilient means at the extremity of the flange carried by each bracket and cooperating with the flange for grasping an arm.

2,531,081
POWER MOWER GRASS RAISER
Melvin William Shippey, Tabor, Iowa
Application August 20, 1949, Serial No. 111,381
3 Claims. (Cl. 56—25.4)



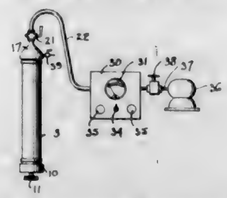
1. In a mowing machine, the combination which comprises a horizontally disposed platform, a motor having an exhaust outlet port thereon mounted on said platform, wheels on which the platform is mounted, a horizontally disposed rotary cutting blade journaled in said platform and operatively connected to the motor, an exhaust pipe extended from the exhaust outlet port of the motor to a point adjacent the forward edge of the periphery of a circle described by the cutting blade, and a flat nozzle having an elongated horizontally disposed slot therein carried by the forward end of the said exhaust pipe and positioned to be spaced slightly above the surface of the ground upon which the mower is positioned and to discharge exhaust gases ahead of the cutting blade.

2,531,082
BELTING FABRIC AND PROCESS
John B. Sidebotham, Philadelphia, Pa.
Application January 23, 1948, Serial No. 3,950
15 Claims. (Cl. 139—410)



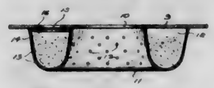
1. A belting fabric woven to the width of the finish belting, having a plurality of plies each provided with face warp ends and filling interwoven in each ply, binder warp ends binding the plies through to the body of the belting portion, the belting fabric having, at the ends of the body of each belting portion, end portions including lap end sections woven with less than all of the face warp ends woven into the fabric and having stuffer warp ends carried straight lengthwise between the plies of the fabric throughout the major portion of the body of each belting portion and only interwoven with the fabric in the end portions.

2,531,083
CORE ANALYSIS
Alonzo L. Smith, Houston, Tex.
Application October 16, 1944, Serial No. 558,948
1 Claim. (Cl. 73—19)



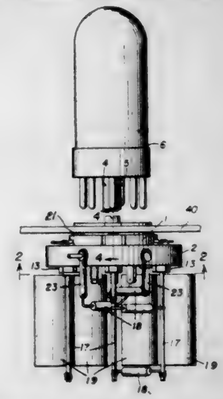
A method of analysis of cores or samples of earth formations to determine the content of oil or gas which comprises inserting the material in a container having a liquid therein, sealing the container with some air space therein, breaking the core or sample material in the container so as to release the oil or gas contained in the pores and to wash the material with the liquid, and withdrawing at least some of the fluid from the container for analysis.

2,531,084
DEHUMIDIFIER FOR VENDING MACHINES
Philip L. Sommer, Fort Lauderdale, Fla.
Application March 28, 1950, Serial No. 152,453
1 Claim. (Cl. 312—31.1)



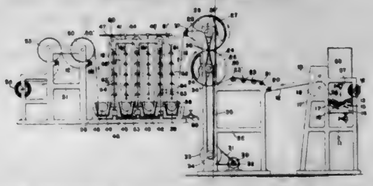
A moisture absorbing device for nut vending machine having cylindrical transparent containers open at their top and closed by a removable locking cap, the structure that includes a square flat plate having its corners rounded upon an arc that corresponds to the diameter of the open end of the container for resting support on the container beneath the locking cap, the plate provided centrally thereof with an opening for the passage of a retaining rod carried by the vending machine, an annular tubular ring fixed upon the bottom of the plate concentric thereto, the walls of the ring provided with a plurality of rows of perforations communicating with the interior of the ring, the plate provided with a plurality of rows of perforations communicating with the interior of the ring, a sight opening formed in the plate and having communication with the interior of the ring, a transparent disc arranged over the sight opening, means for preventing displacement of the disc, the said ring adapted to house moisture absorbent crystals.

2,531,085
TUBE SOCKET WITH TERMINAL BOARD SKIRT
Joseph M. Stacey, Boston, Mass.
Application May 2, 1947, Serial No. 745,483
1 Claim. (Cl. 173—328)



In combination, a tube socket formed with a peripherally disposed terminal board skirt having depending contact terminals, a plurality of internally threaded contact sleeves vertically disposed through said skirt, variable length conductors inserted in the lower ends of said sleeves, means for locking said conductors in the sleeves, a plurality of radially extending threaded sleeves disposed in the terminal board skirt, contact posts in said sleeves for supporting circuit making components associated with the variable length conductors, a support and means extending through said support and into said vertical sleeves whereby said sleeves serve as supports for the conductors and the terminal board skirt.

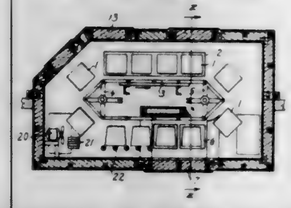
2,531,086
PHOTOGRAPHICALLY PRINTING ON MATERIALS
Leize Rose Stewart, New York, N. Y.
Application January 17, 1947, Serial No. 722,694
1 Claim. (Cl. 95—77.5)



In apparatus for photographically dye printing sheet material, the combination with a rotatable transparent cylinder having a negative mounted on the wall of said cylinder and a source of light mounted interiorly of the cylinder, means for supporting a roll of said sheet material, means

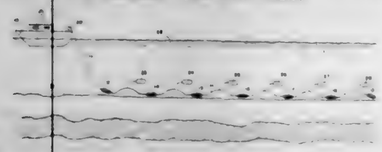
for impregnating said sheet material with a water soluble, light sensitive dye, means for moving the sensitized sheet material into surface contact with wall of said cylinder whereby exposed portions of the sensitized sheet material have their dye impregnant rendered water insoluble and the unexposed portions of the sensitized sheet material have their dye impregnant remaining water soluble, means for removing the water soluble dye impregnant from the exposed sheet material comprising spray means for directly applying washing solution to at least one surface of the sheet material and a container for receiving the washing solution from the spray means, means for advancing the sprayed sheet material through said container and into contact with washing solution within the container to insure complete removal of water soluble dye impregnant from the exposed sheet material and means for drying the washed, exposed sheet material.

2,531,087
FREEZING APPARATUS
Tharald Warberg Tharaldsen, Drammen, Norway
Application March 27, 1947, Serial No. 737,541
In Norway November 28, 1945
3 Claims. (Cl. 62—114)



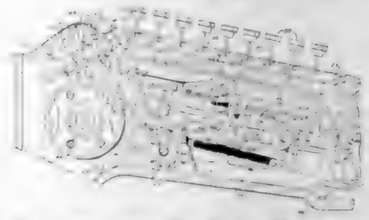
1. An apparatus for freezing food products in containers of heat conductive material, comprising spaced plane refrigerating surfaces and conveying means for conveying the said containers between the said refrigerating surfaces with their side walls in sliding contact with the surfaces, the conveying means comprising an endless chain to which each container is connected by means of substantially parallel links which by one end are pivotally mounted on the chain and by the other end pivotally attached to the container, and which lie at an acute angle to the chain in the direction of movement of the same so that the links upon increasing resistance against the movement of the container apply a pressure component to the same directed outwardly from the chain.

2,531,088
ELECTRICAL PROSPECTING METHOD
Robert E. Thompson, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application October 16, 1947, Serial No. 780,252
3 Claims. (Cl. 175—182)



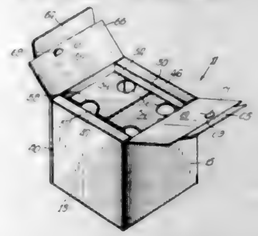
1. An apparatus for conducting continuous electrical prospecting surveys over an area beneath a body of water including a self-propelled vessel, a multi-conductor cable attached to said vessel and submerged in the water for towing behind the vessel, a pair of current electrodes and a plurality of potential electrodes positioned in spaced relation upon said cable and connected to respective conductors therein, and a plurality of submerged buoys attached at spaced positions along said cable intermediate between said electrodes, said buoys being of such shape and arrangement as to lift a substantial portion of said cable off the bottom of the body of water when said vessel and cable are in motion.

2,531,089
CALCULATING MACHINE
Joseph A. V. Turck, Wilmette, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 20, 1947, Serial No. 729,735
9 Claims. (Cl. 235—82)



2. In a calculator having various denominational orders of key-responsive adding and registering mechanism each immediately responsive to key-actuation, means for recording the number of key strokes including a special register having a numbered wheel for each order, means connecting a different one of said numbered wheels to a different order of the adding mechanism for registering in the special register key strokes made in said order, means for disconnecting the connecting means in each order, and means actuated automatically upon depression of a key to operate the disconnecting means in all orders to the left of the depressed key.

2,531,090
BOBBIN BOX
William E. Turner, Chattanooga, Tenn., assignor to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee
Application May 1, 1948, Serial No. 24,604
6 Claims. (Cl. 229—27)



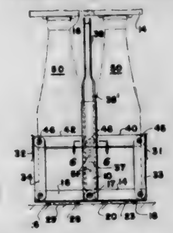
6. A bobbin box comprising four vertical walls and bottom closure means, one pair of opposite walls each having an extension from its upper edge comprising a portion extending toward the box bottom and an outer part joined to said portion and having a central circular opening adjacent its inner end and a central semicircular

opening at its outer end in register with the circular opening in the juxtaposed other part for receiving the upper ends of bobbins.

2,531,091
N-ACETONYL-PYRIDINIUM CHLORIDE AS AN AZO COUPLING COMPONENT IN DIAZOTYPES
André E. Van Dormael, Heverlee (Louvain), Belgium, assignor to Gevaert Photo-Producten N. V., Antwerp-Mortsel, Belgium, a company of Belgium
No Drawing. Application July 29, 1946, Serial No. 686,951. In Belgium August 3, 1945
1 Claim. (Cl. 95—6)

In the preparation of diazotypes, the method which comprises selectively exposing a light-sensitive material containing a light-sensitive diazo compound, and coupling the diazo compound retained in the unexposed areas with N-acetonyl-pyridinium chloride.

2,531,092
BOTTLE CARRIER
Joseph B. Waller, Baltimore, Md.
Application November 10, 1947, Serial No. 785,073
1 Claim. (Cl. 224—48)

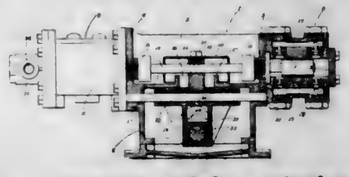


A foldable bottle carrier for transporting bottles arranged in parallel rows, comprising end supporting members having a slidable handle associated therewith, the upper portion of which is of such height as to be below the tops of the bottles carried in the carrier when the handle is depressed, a pair of rectangular foldable bottom members hingedly connected adjacent one of their lateral edges with the lower ends of the end supports, side members positioned upwardly from the bottom and means extending downwardly at each end of the side members and hingedly connected with the outer ends and adjacent the outer edges of the bottom members, link members of substantially the same length as the width of each of the rectangular bottom members connecting the side supporting members with the said handle, the link members being adapted to move the side members inwardly toward the handle for engaging the bottles as the handle is moved upwardly and means extending between the end supports, for supporting the same.

2,531,093
ICER FOR BAKERY PRODUCTS
Nelson W. Walker, Youngstown, Ohio
Application October 8, 1948, Serial No. 53,580
2 Claims. (Cl. 91—3)

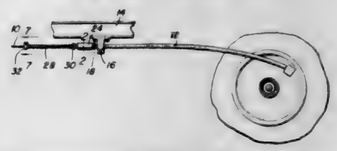
1. In an icing machine for bakery products, a pressure vessel and an elongated tubular icing discharge nozzle in communication therewith and means for applying pressure to the said pressure vessel whereby icing may be moved therefrom through the said discharge nozzle, the said discharge nozzle having a longitudinally extending slot in the lower part thereof and a multiple headed piston in the said discharge nozzle for movement therealong for blocking the said slot at spaced intervals, passageways through at least one of said piston heads whereby spaced icing discharge outlets are formed in said slot.

2,531,094
DUAL POWER UNIT FOR DUPLEX PUMP
Russell R. Waterman, Lodi, Calif.
Application July 2, 1946, Serial No. 681,000
5 Claims. (Cl. 121—114)



1. In a motor which includes a pair of parallel fluid pressure operated pistons provided with piston rods; a crankshaft journaled at a right angle to and adjacent the piston rods, a pair of cranks fixed to the crankshaft, a lineal-rotary motion translating means connected between each piston rod and one of the cranks, such means comprising a guide rod fixed parallel with respect to the piston rod and disposed between such piston rod and the crank, a guide sleeve movable along the guide rod, means fixing the sleeve to the piston rod, a vertically disposed guideway fixed to the sleeve at right angles thereto, and a guide block journaled on the crank and being slidable in the guideway.

2,531,095
VEHICLE BRAKE CABLE OILER
Francis B. Williams, Columbus, Ohio
Application September 9, 1949, Serial No. 114,827
5 Claims. (Cl. 184—16)

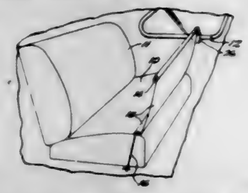


1. In combination with a vehicle brake cable and a casing for the cable of a brake cable oiler, said brake cable oiler comprising an absorbent sleeve embracing the cable, a member surrounding the sleeve and clamping the same about the brake cable, and means associated with the brake cable and yieldingly urging the sleeve against one end of the casing.

2,531,096
CURTAIN WALL SUPPORT FOR AUTOMOBILE SEATS AND THE LIKE
Earl V. Allers, Chicago, Ill.
Application September 28, 1946, Serial No. 700,060
2 Claims. (Cl. 5—94)

2. In a curtain support structure for use with an automobile having a rear seat and window frames at opposite ends of the seat and in which

the curtain is secured at its lower side to the front portion of the rear seat, a rigid pole secured to the top end of the curtain and having free end portions extending therefrom, and bracket means secured to the bottom portion of

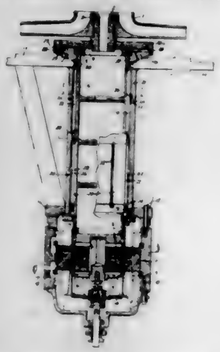


each window frame and providing inwardly extending open sockets thereabove, said sockets being adapted to receive the ends of said pole and at least one of said sockets being tiltably supported.

2,531,097
AQUEOUS AMINO ACID SOLUTIONS
Sidney Alpert and Gustav J. Martin, Philadelphia County, Pa., assignors to The National Drug Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application January 7, 1948, Serial No. 1,056
5 Claims. (Cl. 167—65)

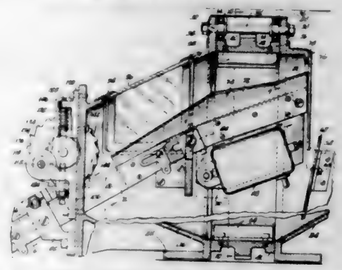
1. A clear, stable, aqueous solution suitable for parenteral administration, said solution containing a mixture of amino acids one of which is tryptophane and at least 0.5% by weight of sorbitol.

2,531,098
DRIVING MECHANISM
Marshall Anderson, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application December 28, 1945, Serial No. 637,734
11 Claims. (Cl. 230—117)



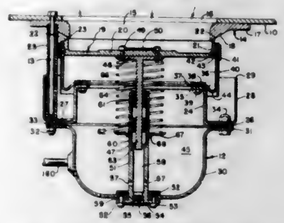
1. A driving mechanism including a rotatable shaft, a stationary bearing housing for said shaft, a plurality of circumferentially spaced bearing shoes embracing said shaft, springs arranged between adjacent edges of adjacent bearing shoes for biasing apart said shoes, means for securing said springs to said housing to maintain said circumferential spacing of bearing shoes and prevent rotation thereof circumferentially around said shaft, and means including projections interposed between said shoes and said bearing housing for fixing the radial position of said shoes and for facilitating rocking motion of said shoes.

2,531,099
SCREW FEEDING HOPPER
William C. Anderson, Oak Park, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application May 10, 1946, Serial No. 668,888
12 Claims. (Cl. 10—168)



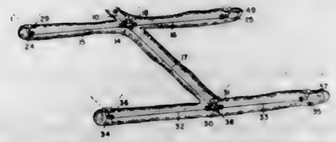
1. In a screw element feed hopper having a housing, an inclined chute having a pair of inclined rails for feeding screw elements by their heads, means in the housing for feeding screws to said chute, said rails having top surfaces which for a longitudinal portion of the rails converge at an angle progressively increasing in the direction of feed of the screws along the chute.

2,531,100
REGULATOR
Robert A. Arthur, Santa Monica, and James M. Kemper, Hollywood, Calif., assignors to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application September 29, 1947, Serial No. 776,842
11 Claims. (Cl. 98—1.5)



1. In a fluid flow control valve for controlling the fluid flow from an opening: a valve seat about said opening in the general form of a truncated cone to provide a sloping seating surface which slopes outwardly away from the region of engagement; a movable valve member in the general shape of a shallow cup and comprising a wall from which a peripheral flange axially extends toward the opening, the free end of said flange being bevelled to provide a relatively sharp inner edge adapted to engage the seat about said opening; means forming a chamber adjacent the side of the wall opposite said opening and having an open end facing said wall; yielding means urging the movable valve member toward closed position; and flexible means connecting said wall with the open end of the chamber to provide a pressure chamber therewith, said flexible means being so constructed and arranged that ambient atmosphere exerts substantially no effective influence thereon, and hence, exerts substantially no effective influence on the positioning of the movable valve member.

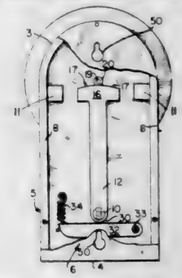
2,531,101
LAWN SPRINKLER SYSTEM
Morris Becker, Chicago, Ill., assignor to Federal Auto Products Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1948, Serial No. 35,874
1 Claim. (Cl. 299—61)



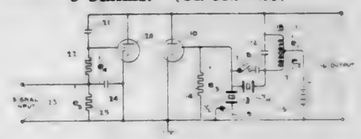
A sub-surface automatic lawn sprinkler system composed entirely of non-rusting parts, installable by a home owner without the use of plumber's tools other than a wrench, comprising a water intake tube, a five-way junction fitting having an inlet attached to one end of said water intake tube, said junction fitting having a front outlet directly opposite said inlet, a pair of said outlets at right angles to said inlet and front outlet, and a top outlet, a pair of water distribution tubes attached at one end to said side outlets, water sprayers attached to said top outlet and to the opposite ends of said water distribution tubes, a third water distribution tube attached to said front outlet, a four-way junction fitting attached to the opposite end of said third water distribution tube directly opposite the five-way junction fitting, said four-way junction fitting having a second pair of side outlets transverse to said third water distribution tube and a vertical outlet, a second pair of water distributiton tubes attached to said second pair of side outlets, said second pair of water distribution tubes extending parallel to the first pair of said water distribution tubes, water sprayers attached to the opposite ends of each of said second pair of water distribution tubes and to the vertical outlet of said four-way junction fitting, all of said water sprayers having a housing containing therein a movable sleeve, said sleeves having atomizers at their upper ends, said water intake tube adapted to be attached at its other end to the normal water pressure supply of the home, to receive water therefrom and to pass the same on to said junctions, said outlets, said tubes, said sprayers, said sleeves and said atomizers for operation of the sprinkler system, said water causing said sleeves to move upwardly upon and while receiving pressure from water flowing into said sprayers and against the upper ends of said sleeves, said atomizers causing water flowing through said sleeves to be sprayed outwardly in radial sprays from the upper ends of all of said sprayers to sprinkle the lawn.

2,531,102
WHEEL GAUGE
Bernard J. Beckwith, Lake Village, Ind.
Application November 14, 1947, Serial No. 786,071
4 Claims. (Cl. 33—214)

1. A gauge for measuring the caster, camber and kingpin inclination of a vehicle wheel, comprising a base member, a dial mounted on said base member and at least partially rotatable with respect thereto, a rotatable element axially disposed with respect to said dial, a pointer secured to said rotatable element and adapted for registration with said dial, a rotatable element carried by said base member and disposed in spaced parallelism with respect to said first-named rotatable element, a bubble gauge secured to said last-named rotatable element, a lever extending between said rotatable elements, one end of said lever being secured to said last-named rotatable element, a cross-head carried by the other end of said lever, said cross-head extending transversely of said base member and providing a curvilinear trackway, and resilient means for influencing said curvilinear trackway into contact with said first-named rotatable element.

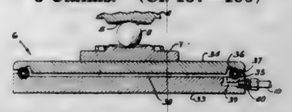


2,531,103
FREQUENCY SHIFT OSCILLATOR CIRCUIT
Robert W. Beckwith, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application November 17, 1948, Serial No. 60,539
5 Claims. (Cl. 332—26)



1. In combination, a crystal oscillator comprising an electronic valve having an anode, a cathode and a control electrode, a circuit comprising a parallel combination of inductance and capacitance connected in series with a piezoelectric crystal filter, the free terminal of said circuit being connected to said anode and the free terminal of said crystal filter being connected to said control electrode, said filter containing a plurality of crystals having different natural frequencies of oscillation near the resonance frequency of said combination, and means to vary the resonance frequency of said combination whereby the frequency of oscillation of said circuit is varied by an amount dependent upon the rate of change with frequency of the impedance of said combination with respect to that of said crystal filter.

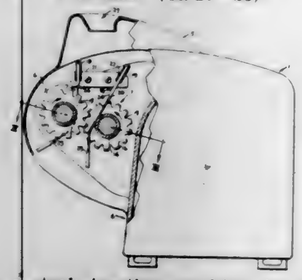
2,531,104
LOAD RESPONSIVE PRESSURE TRANSMITTER
Robert S. Bohannan, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 18, 1946, Serial No. 641,997
3 Claims. (Cl. 137—156)



1. A hydraulic capsule for use in a weighing scale, the capsule comprising a pair of plates separated by a hydraulic fluid, a hose-like yieldable member interposed between the peripheries

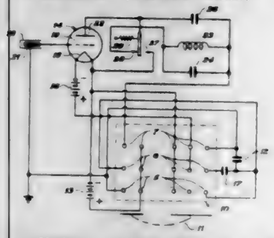
of the plates and held in fluid-tight engagement by load forces applied to the capsule, and means for hydraulically connecting the space between the plates to a pressure receiver.

2,531,105
STEAK TREATING MACHINE
James D. Brown, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application July 7, 1947, Serial No. 759,357
3 Claims. (Cl. 17—26)



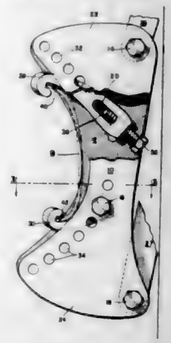
1. In a steak treating machine, in combination, a treating roll comprising a plurality of spaced disk-like toothed cutting knives and a meat guide having a plurality of parallel guide wires extending one between each adjacent pair of said knives, said guide wires being semicircular in cross section where passing between adjacent knives, the flat sides of said guide wires being turned outwardly away from the centers of said knives.

2,531,106
POCKET RADIATION ALARM
Robert J. S. Brown, Lawndale, Calif., and Herbert G. Weiss, Waltham, Mass., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application July 8, 1949, Serial No. 103,712
3 Claims. (Cl. 250—83.6)



1. In a radiation alarm device, a thermionic tube having at least a cathode, a grid and an anode, means for energizing said grid in the presence of radiation products, a relay having an armature and a contact on each of two opposed sides thereof and having an actuating coil and an armature retention means opposed thereto, a first condenser connected in shunt with said coil, a source of potential having a positive and a negative terminal, means connecting the positive terminal to one end of said coil and the negative terminal to the relay contact adjacent the actuating coil, means connecting the other end of the coil to the remaining relay contact, and means connecting the armature to the said anode, a second condenser connected between the positive potential source terminal and the armature, whereby an increase in anode current in response to energization of said grid causes said relay armature to alternately charge the first and second condensers from the potential source and alternately discharge the first and second condenser through the actuating coil to cause the energetic reciprocation of the armature to generate an audible sound.

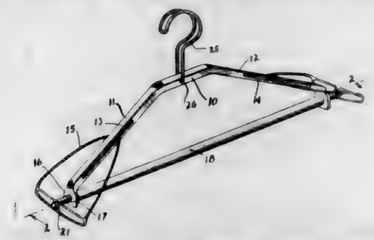
2,531,107
BUMPER ATTACHMENT CLAMP FOR CAR-TOP CARRIERS
Carl E. Burkey, Seattle, Wash.
Application August 31, 1948, Serial No. 46,940
2 Claims. (Cl. 24—263)



1. A clamp-on attachment for automobile bumpers, consisting of: spaced similar side plates disposed in parallel relationship, said plates formed of modified hour-glass section having concave forward edges; a plurality of upper positioning holes disposed substantially in a line downwardly and rearwardly directed; a plurality of lower positioning holes disposed substantially in a line directed upwardly and rearwardly; an upper attachment hole and a lower attachment hole disposed near the rear edges of said plates; all of said attachment and positioning holes occurring similarly positioned in each of said spaced plates; a lower hook clamping member having a hook on one end and a bolt hole on the opposite end; a bolt for said lower clamp member adapted to pass through successively one side plate, the clamp member and the opposite side plate; an upper clamp member having a hook at one end and an elongated hole near the opposite end thereof adapted to receive a positioning bolt; a bolt for said upper clamp member adapted to pass through successively one side plate, the clamping member and the opposite side plate; and a tensioning bolt adapted to pass through the end of said clamp member substantially parallel to its longitudinal axis and into the elongated hole adapted to serve as a clamping means for said clamp member.

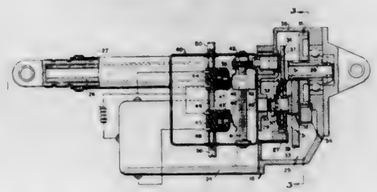
2,531,108
ADJUSTABLE GARMENT HANGER
Taggart Casey, New York, N. Y.
Application June 8, 1949, Serial No. 97,755
4 Claims. (Cl. 223—89)

1. A garment hanger comprising a body having depending wing portions, a transverse supporting sleeve extending between the ends of the wing portions, said sleeve being internally threaded with right and left threads, threaded pin elements extending through the ends of the wing portions and into the threaded ends of the sleeve support, adjustable shoulder supports connected to the wing portions for adjustment thereover and to the threaded pins whereby as the sleeve support



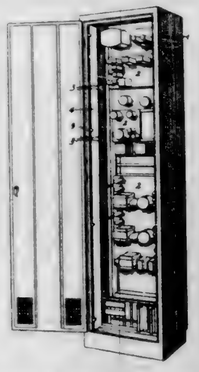
is adjusted, the pins and the shoulder supports will be moved in or out, and hook means connected to the body for the suspension of the hanger with a garment.

2,531,109
TRAVEL AND LOAD LIMIT SYSTEM FOR SCREW ACTUATORS
James E. Chapman, Phoenix, Ariz., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application June 19, 1944, Serial No. 540,987
1 Claim. (Cl. 192—142)



In an actuator for moving a part into an extended position and thereafter into a retracted position, the combination of a reversible electric motor; a first electric circuit whereby said motor is energized to be driven in one direction; a second electric circuit whereby said motor is energized to be driven in the opposite direction; a first limit switch in said first electric circuit for opening said first electric circuit to deenergize said motor; a second limit switch in said second electric circuit for opening said second electric circuit to deenergize said motor; an actuator movable into engagement with one of said switches at each end of the travel of said reversible motor to open the electric circuit in which the switch is located to deenergize and stop the motor; a first chain of gears between said motor and said actuator, said first chain of gears comprising a non-slipping driving connection for positively driving said actuator at all times during rotation of said motor; a driven member movable between extended and retracted positions; a second chain of gears for driving said driven member; a clutch constituting a driving connection between one of the gears of said first chain of gears and one of the gears of said second chain of gears, said clutch permitting said motor to operate said first chain of gears and said actuator independently of said second chain of gears and said driven member, a first fixed stop at one end of the travel of said driven member, said first stop being positioned to prevent movement of said driven member beyond a predetermined extended position, and said stop being positioned to be engaged by said driven member to arrest movement thereof before said motor is deenergized by the opening of one of the said limit switches; and a second fixed stop at the opposite end of the travel of said driven member said second stop being positioned to prevent movement of said driven member beyond a predetermined retracted position, said stop being positioned to be engaged by said driven member to arrest movement thereof before the other of said switches is opened to deenergize said motor.

2,531,110
WIRING DUCT
Marvin C. Cisler, Fayetteville, N. Y., assignor to General Electric Company, a corporation of New York
Application April 3, 1947, Serial No. 739,231
2 Claims. (Cl. 174—52)



1. In combination with a cabinet containing a plurality of apparatus units spaced in aligned relation therein, a conduit mounted on one inner wall of said cabinet and extending alongside all said units, said conduit comprising first and second interfitting channel members, said first member having a multiplicity of open slots closely spaced along the length of one side wall thereof adjacent said units, said slots terminating at the edge of said side wall, a flexible insulating grommet frictionally retained in each slot, said second member closing the open ends of said slots to define a wiring duct which is completely enclosed except for individual conductor apertures through said slots when said second member is interfitted with said first member, and a multiplicity of conductors interconnecting various ones of said units, each of said conductors being concealed within said conduit between apertures adjacent the units to which it is connected, said second member being readily removable to facilitate installation and removal of said conductors in said slots.

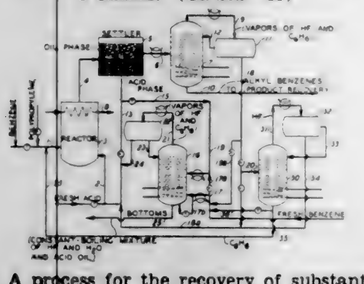
2,531,111
FRICTION DRIVE RUBBER TRACK
Lee C. Daniels, Cleveland, Ohio, assignor to The Oliver Corporation, Chicago, Ill., a corporation of Delaware
Application April 22, 1946, Serial No. 663,875
3 Claims. (Cl. 305—10)

1. A track for a crawler type vehicle having longitudinal ribs for engagement with a driving

wheel and composed of a soft flexible material, the part of said track adjacent the surface of

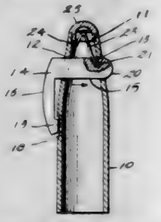
said ribs having incorporated therein a randomly disposed flocculent material.

2,531,112
REGENERATION OF HYDROFLUORIC ACID CATALYST
Thonet C. Dauphiné, Irvington on Hudson, N. Y., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application June 2, 1947, Serial No. 751,934
3 Claims. (Cl. 202—46)



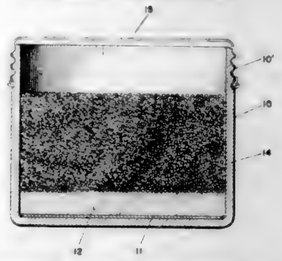
1. A process for the recovery of substantially water-free hydrofluoric acid from a spent benzene alkylation catalyst containing a mixture of hydrofluoric acid, water and acid oil, which comprises preheating said spent catalyst mixture to a temperature of at least above the boiling point of benzene, introducing a stream of vaporized benzene into said spent catalyst mixture, and withdrawing therefrom said vaporized benzene having entrained therein water-free hydrofluoric acid.

2,531,113
CLIP FOR PENS AND PENCILS
Wilbur Arthur Davis, Gibson City, Ill., assignor of one-half to George Walter Davis, Gibson City, Ill.
Application January 22, 1946, Serial No. 642,609
5 Claims. (Cl. 24—11)



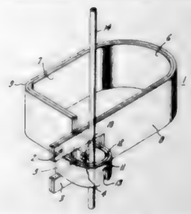
1. A safety clip for a hollow pocket attached implement, comprising an L-shaped member having one leg thereof extending through apertures aligned transversely of and formed through opposite walls of the implement, said leg being supported in said apertures for free reciprocal movement, the leg having a notch in the top side thereof, a long spring element bent transversely intermediate its ends to form two spaced end portions, said element being housed in the top of the hollow implement and having one end portion engaged in said notch and pressing with its other end portion against the wall of the said implement to thereby normally bias the other leg of said L-shaped member into contact with a portion of the body of the implement, means on the end of the other leg of the member adapted to seat within means defined in the exterior of said implement, and the end of the said one leg of the L-shaped member being formed to provide a push-button for unseating said means.

2,531,114
ANTITARNISH COMPOSITION
Waldemar Dietz, Little Neck, N. Y., assignor to Beam Products, Inc., Long Island City, N. Y., a corporation of New Jersey
Application August 3, 1949, Serial No. 108,361
8 Claims. (Cl. 21—2.5)



8. A composition for purifying the ambient air adjacent metal surfaces to prevent tarnishing of same comprising about 20 to about 35% by weight of powdered perborate of soda and about 80 to about 65% by weight of granulated silica gel.

2,531,115
TEMPERATURE SENSITIVE CIRCUIT BREAKER
Robert A. Doak, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 29, 1949, Serial No. 135,738
3 Claims. (Cl. 200—138)

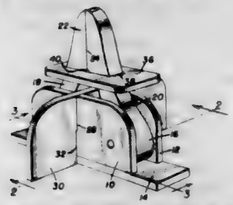


1. A temperature sensitive circuit breaker for shearing a wire in response to increase in temperature above a predetermined value comprising a bimetallic strip having a bifurcated end and a tongue end, the width of said tongue end being substantially equal to the spacing of the tines of said bifurcated end, said tongue end being provided with a shoulder and said bifurcated end being provided with a detent, said tongue being bent into a U-bend and said strip being oppositely bent to form a loop with said shoulder engaging said detent and with said tongue projecting between said tines to form an external loop therewith so that said strip distorts in response to increase in temperature above said predetermined value to snap said tongue from between said tines and where said outside loop encloses said wire said wire is severed between adjacent edges of said tongue and one of said tines.

2,531,116
RAIN OPERATED AUTOMATIC WINDOW CLOSER
Harold Donoghue, Brooklyn, N. Y.
Application September 8, 1945, Serial No. 615,187
1 Claim. (Cl. 268—123)

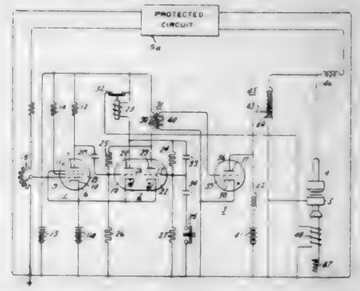
The combination with a window having vertical side bars, a sash sliding on said side bars and having parallel gear racks secured to a face of said sash, each of said side bars having a laterally extending opening therein in opposed relationship to each other, a tubular bearing in each of said openings, a cross shaft having reduced ends mounted in said bearings, said shaft rotatable on said side bars substantially centrally thereof and having pinions fastened to said reduced ends and engaging said racks, an electrical motor having a gear reduction drive, a friction clutch and pinion connecting said drive to said cross shaft, a circuit controlling the electrical motor, a circuit closer for said circuit comprising a pivotally mounted rain receptacle, a switch contacting said receptacle and operable upon pivotal movement thereof to close the circuit of the motor to start the same, said motor circuit further having a manually controlled switch for opening and closing the circuit to the motor and an additional safety switch operable by the sash for opening the circuit to the motor as said sash approaches its fully closed position.

2,531,117
TREE HOLDER
Bert D. Dyer, Seattle, Wash.
Application May 5, 1947, Serial No. 746,093
4 Claims. (Cl. 248—44)



1. An improved tree holder comprising a base, a pair of side walls carried by said base, removable wall carried by said side walls at right angles to said side walls, the lower edge of said removable wall being co-planar with said base, a pair of opposed jaws pivoted between said side walls, and means for clamping said jaws against an article placed therebetween.

2,531,118
OVERVOLTAGE PROTECTIVE APPARATUS
Russell N. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 20, 1949, Serial No. 134,083
3 Claims. (Cl. 175—294)



3. An overvoltage protective apparatus comprising a spark gap having a pair of electrodes in spaced relation and arranged for shunt connection across a circuit to be protected, a radio frequency choke connected in series between said electrodes and the circuit to be protected, a pulse autotransformer having a primary winding and a secondary winding, said secondary winding being connected in shunt relation with said gap, a capacitor, means including an inductive choke for charging said capacitor, electron discharge means connected in series relation with said capacitor and said primary winding, a trigger circuit arranged to render said electron discharge means conductive in response to a predetermined voltage signal from said circuit to be protected, means cooperative with said trigger circuit and including electromagnetic means and biasing means to vary the spacing of said electrodes in response to said predetermined signal, said capacitor being discharged from a normally precharged condition through said electron discharge means and said primary winding when said electron discharge means is rendered conductive, a voltage being induced in said secondary winding in response to said discharge to bring down said gap and substantially reduce the impedance thereacross.

2,531,119
AUTOMATIC DOOR
Ronald Everitt, Aurora, Ill.
Application September 25, 1946, Serial No. 699,232
3 Claims. (Cl. 268—37)

1. A door and means for opening the door on the approach of a vehicle, said door being mounted on alined horizontal pivots, one at each side of the door, for arcuate rotary movement about said pivots to open and closed positions, said means for opening the door comprising an arm rotatably mounted on one of said pivots and

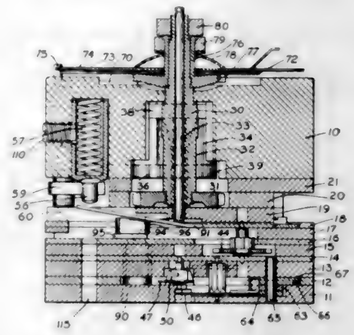
connected to the door to operate the door when the arm is moved, a track device outside the door and leading to the doorway and comprising two members hinged together on a horizontal axis at their meeting ends, the other end of one of said track members being fixed to a rockable horizontal shaft and the other end of the other of said track members being unrestrained, a second arm rigid with said shaft and connected by link means with the said door operating arm, whereby when the door is in closed position the hinged ends of said track members are held in raised position and whereby when a vehicle traverses said track members the hinged ends thereof will be forced downward and operate said horizontal shaft, arm members and link means to open the door.

2,531,120
WELL-DRILLING APPARATUS
Harry L. Feaster, Artesia, Colo.
Application June 2, 1947, Serial No. 751,833
4 Claims. (Cl. 255—4.8)

1. In a well drilling apparatus, a motor unit designed to be operated at the lower end of a drill stem, comprising a relatively long housing incasing the usual armature and field coils, the armature having axial supporting trunnions, a removable closure cap for each end of said housing, each of said closure caps having an axial passage therethrough, means for rotatably mounting one armature trunnion in a closure cap, means for coupling the last mentioned closure cap with an end of the drill stem, the armature and trunnions having an axial passage therethrough aligned with the passage of the said last mentioned closure cap and with the drill stem to receive drilling mud from the stem, a tubular coupling connected with the other armature trunnion and passing through the other closure cap, the tubular coupling being adapted to have a bit connected therewith, and means for transmitting electric current to the armature within the housing.

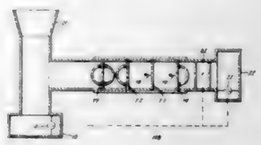
2,531,121
MECHANICAL TIME FUSE
Jean Fink, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware
Application October 5, 1944, Serial No. 557,285
5 Claims. (Cl. 102—71)

1. In a combination fuse, clockwork mechanism including a hollow main power shaft and a gear train driven thereby, point impact firing mechanism including a striker pin extending through said shaft, a firing pin extending parallel to said striker pin, means including a timing disc on said main shaft for actuating said firing pin, a



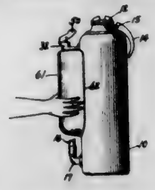
firing spring extending beneath said striker pin and said firing pin and adapted to be operatively engaged by said pins, a detonator, and means including said firing spring for exploding said detonator responsive to actuation of said striker pin or said firing pin.

2,531,122
FREQUENCY RESPONSIVE PROTECTIVE ARRANGEMENT FOR ULTRA HIGH FREQUENCY SYSTEMS
Milan D. Fiske, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application June 2, 1944, Serial No. 538,483. Divided and this application August 6, 1945, Serial No. 609,130
7 Claims. (Cl. 178—44)



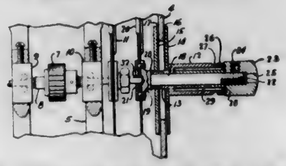
1. In a system for transmitting and receiving ultra high frequency electromagnetic waves and including a radiating element, a transmitter, and a receiver, said transmitter and receiver being connected to said radiating element by a common hollow pipe type wave guide system, means for protecting said receiver from high energy waves from said transmitter, said means comprising a plurality of transverse metallic walls connected across said wave guide adjacent said receiver, each of said walls being spaced apart longitudinally of said guide by a distance equal to a quarter wave length at the operating frequency of said system, each of said walls being provided with an aperture tuned to the frequency of said waves, and sealing means for establishing a gas-filled region around said apertures whereby intense electromagnetic waves from said transmitter establish an electric discharge across said apertures to prevent transmission of said waves from said transmitter to said receiver.

2,531,123
PORTABLE HAND FIRE EXTINGUISHER
Arthur B. Guise and Theodore W. Johnson, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin
Application September 19, 1947, Serial No. 775,044
16 Claims. (Cl. 169—31)



1. Fire extinguishing equipment comprising a container for storing a powdered, fire-extinguishing chemical, a compressed gas-containing cartridge disposed outside of said container and adjacent thereto, means connecting said cartridge to said container to permit said gas to flow within said container and a removable guard enveloping said cartridge but spaced therefrom and contacting said container and means on the guard for retaining same on the cartridge.

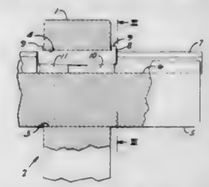
2,531,124
WEIGHING SCALE INDICATOR
Norman E. Hart, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 6, 1945, Serial No. 581,220
3 Claims. (Cl. 116—129)



1. In an automatic weighing scale in which an indicator carried on an indicator shaft operatively engages during movement in one direction a maximum load indicating pointer to position the pointer at the maximum load indication, a mounting for the maximum load indicating pointer comprising a barrel, a pair of washers secured to the barrel and supporting the barrel from a portion of the scale housing with the barrel aligned with the indicator shaft, said barrel having a bearing in its end adjacent the indicator shaft, a shaft journaled in the bearing and carrying the maximum load indicating pointer on its end adjacent the indicator shaft, and a weighted thimble threaded onto the end of the shaft, the thimble being of sufficient weight so that the composite center of gravity of the thimble, maximum load pointer and shaft is located in the shaft between the ends of the shaft bearing in the barrel.

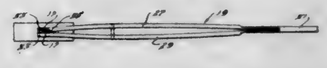
2,531,125
PIVOT RETAINER
Norman E. Hart, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application June 2, 1945, Serial No. 597,361
2 Claims. (Cl. 308—2)

1. A weighing scale lever and pivot construction comprising a lever having a transverse bore provided with a keyway, a pivot support bar that fits through the bore, said bar having a longitudinal keyway, a first wedge shaped key inserted in the keyways of the lever and the bar with its ends extending beyond each side of the lever and radially outside the periphery of the bar, said key



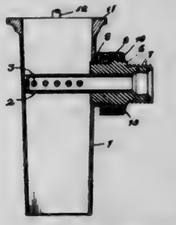
having end surfaces perpendicular to its length, at least one other wedge shaped key located in the keyway of the bar for locking the first key in position, and a pair of knife edge pivots mounted in the keyway of the support bar with an end of the knife edge of each pivot juxtaposed to an end surface of said first key.

2,531,126
DENTAL FORCEPS
Roy E. Hawkinson, Bloomfield Hills, Mich.
Original application May 29, 1946, Serial No. 672,971. Divided and this application March 4, 1948, Serial No. 12,989
1 Claim. (Cl. 32—62)



Dental apparatus comprising forceps including relatively movable jaws having tapered outer ends extending angularly with respect to the intermediate portion of said jaws so as to be adapted to snugly fit between a matrix plate and overhanging portions on the outer end of a matrix rib extending angularly from the matrix plate, the bottom faces of said tapered ends being substantially flat so as to be capable of lying substantially flat against a portion of the top of the rib of the dental matrix, and a forwardly facing shoulder on the inner surface of one of said jaws adjacent the outer extremity of the tapered outer end thereof adapted to abut a portion of the matrix rib.

2,531,127
EXTRUSION NOZZLE FOR INTRAFOLD ICE CREAM
Abram E. Hershey, Paxtang, and Joseph F. Grissinger, Mechanicsburg, Pa., assignors to Hershey Creamery Company, Harrisburg, Pa., a corporation of Delaware
Application June 6, 1947, Serial No. 753,114
2 Claims. (Cl. 107—1)



1. In a device of the class described, the combination with an open-ended casing, of a hori-

zontal sleeve supported upon the side of said casing, a horizontal, cylindrical injector tube, closed at its outer end and extending horizontally only across said casing, said tube having its inner end extending into and supported by said sleeve, and a series of short, horizontal auxiliary tubes on the side only of said first mentioned tube.

2,531,128
METHOD OF LAMINATING WALLS
Frank Hobbs, Seattle, Wash., assignor to Research Holdings, Inc., Seattle, Wash.
Application October 27, 1947, Serial No. 782,296
9 Claims. (Cl. 20—4)

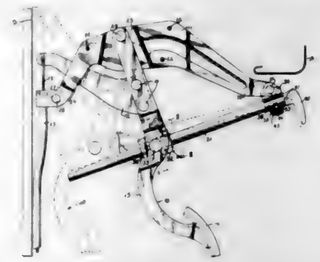
1. The method of laminating walls with semi-rigid wallboards and the like, comprising: skin-coating with adhesive the wall surface to be laminated; applying a coat of adhesive that sets up to an elastic condition on the wallboard face to lie against said wall, and forming spaced apart ridges in said coat on the wallboard of a size and shape to entrap substantial quantities of adhesive unexposed to the atmosphere; and pressing the wallboard to the wall and rupturing the ridges of said wallboard coating, without totally dissipating laterally from said ridges the adhesive material thereof.

2,531,129
MINERAL LUBRICATING OIL COMPOSITIONS CONTAINING DIALKYLDITHIOPHOSPHORIC ACID-FORMALDEHYDE CONDENSATION PRODUCTS
Edwin O. Hook, Old Greenwich, Conn., and Philip H. Moss, Nederland, Tex., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 26, 1948, Serial No. 17,394
2 Claims. (Cl. 252—46.6)

2. A hydrocarbon oil composition comprising a relatively large proportion of a hydrocarbon lubricating oil having dissolved therein a relatively small amount, sufficient to inhibit deterioration of the oil by oxidation, of the condensation product of one mol of formaldehyde with from 1 to 2 mols of an 0,0-dialkyldithiophosphoric acid diester.

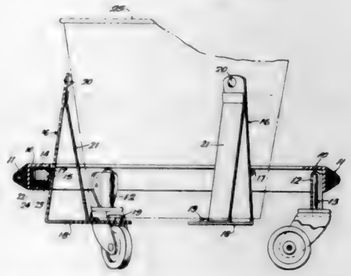
2,531,130
BRAKE LEVER STRUCTURE
Herbert S. Jandus, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application February 27, 1946, Serial No. 650,574
17 Claims. (Cl. 74—539)

1. In combination in a brake lever structure, a foot operated lever having means for operatively connecting it to a setting or take-off cable, and ratchet mechanism for holding the lever in set or brake-locking condition including a non-axially movable but swingably mounted elongated ratchet member and detent means carried by the lever cooperating with the ratchet member, said



ratchet member being manually operable to release it from the detent means.

2,531,131
BUCKET HOLDER
Axel E. F. Johnson, Lombard, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application October 30, 1948, Serial No. 57,472
3 Claims. (Cl. 248—129)



1. In a bucket holder, a circular frame equipped with rollers, angle bars pivotally connected along their vertical portions to the frame, inclined spring members connecting the angularly extending portions of each lever, and a spring urging the bottom portion of each lever inwardly to cause the upper portion of each lever to move outwardly.

2,531,132
APPARATUS FOR CONTROLLING THE PASSAGE OF WIRE THROUGH A SAND PAN
Charles D. Johnson, Worcester, Mass., assignor to Johnson Steel & Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts
Application April 22, 1949, Serial No. 88,922
7 Claims. (Cl. 51—20)

1. Apparatus of the class described comprising in combination, a sand pan having one end thereof located adjacent to a bath of molten metal, means for moving wire lengthwise through the sand in said pan after leaving said metal bath, and means for laterally shifting said wire within the sand simultaneously with lengthwise movement of the wire therethrough.

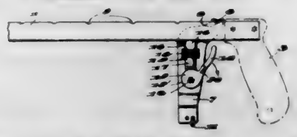
2,531,133
MORTAR APPLICATOR
William C. Kloman, Jr., Miami Beach, Fla.
Application July 11, 1947, Serial No. 760,249
3 Claims. (Cl. 72—128)

1. A device of the character described comprising an open topped container having a downwardly tapered body adapted to contain mortar, a valve at the lower end of the body to control the flow of mortar therethrough, a pair of base members for limiting the width of a mass of mortar passing through the valve and means adapted to selectively maintain the front and rear edges of the base members in parallel relation to the top of a wall, said means comprising a bar extending horizontally below the base members, arms attached at their lower ends to the bar and pivotally connected at their upper ends to the container and outwardly extending detents carried by the container for limiting the movement of said arms.

2,531,134
DIMETHYL PHTHALATE SOLUTION OF ACETYL PEROXIDE AS CATALYST FOR TRIFLUOROCHLOROETHYLENE POLYMERIZATION
Edward L. Kropa, Old Greenwich, and John J. Padbury, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 12, 1946, Serial No. 653,960
2 Claims. (Cl. 260—92.1)

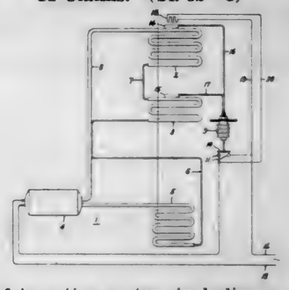
1. The method of producing polymeric trifluorochloroethylene which comprises forming an admixture of trifluorochloroethylene and a small amount of diacetyl peroxide, said diacetyl peroxide being introduced into the said admixture while dissolved in dimethyl phthalate, allowing the trifluorochloroethylene to polymerize while admixed with the said diacetyl peroxide, and isolating polymeric trifluorochloroethylene from the resulting mass.

2,531,135
ADJUSTABLE HACKSAW FRAME
Harry W. Kulp, Lancaster, Pa., assignor to K-D Manufacturing Company, a corporation of Pennsylvania
Application September 24, 1946, Serial No. 698,888
9 Claims. (Cl. 145—34)



1. An adjustable hack saw frame comprising a rigid longitudinal frame bar formed with a series of longitudinally spaced notches in its upper edge, a fixed blade supporting arm depending from the forward end thereof, a handle rigidly secured to the rear thereof, and a depending adjustable blade supporting arm mounted on said bar for longitudinal adjustment and for relative swinging movement in the longitudinal plane of said fixed arm, said adjustable arm comprising a pair of transversely spaced depending plates having their upper portions slidably disposed on opposite sides of said bar, and a longitudinally rearwardly disposed yoke connecting said plates across the upper edge of said bar and having a bearing portion seated in one of the notches therein to provide a pivot for the swinging movement of said arm, said plates being formed below said bar with transversely opposed partially cylindrical journal bearing portions and opposed apertures in axial alignment therewith, in combination with a cam mounted between said plates below said journal bearing portions for rotary movement about a transverse axis, and having a peripheral cam surface, an operating lever integral with said cam projecting rearwardly from between said plates, and rigid linearly extensible thrust transmitting mechanism comprising a lower threaded element mounted for both rotary and axial sliding movement in the journal bearing portions of said plates with its lower linear extremity in operative engagement with said cam, said lower element being formed with a knurled flange projecting through said apertures to permit manual engagement and rotation of said element, and an upper non-rotatable threaded element in threaded engagement with said lower element and linearly movable therewith, said upper element being formed with a non-cylindrical portion disposed between and in linear sliding engagement with said plates to maintain same against rotation, the upper linear extremity of said element abutting against said frame bar at a location longitudinally forwardly spaced from the pivotal axis of said adjustable arm.

2,531,136
CONTROL ARRANGEMENT FOR REFRIGERATING SYSTEMS
Lowell M. Kurtz, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 28, 1949, Serial No. 135,408
11 Claims. (Cl. 62—4)

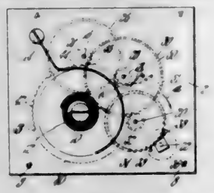


1. A refrigerating system including a condensing unit, a control system for starting and stopping said condensing unit under predetermined maximum and minimum temperature conditions, said control system including a bellows and two temperature-responsive bulbs in communication with said bellows, said system having a volatile fluid therein, the first of said bulbs being disposed in a cold zone and the second of said bulbs being disposed in a warmer zone, a heater disposed adjacent said first bulb, and means actuated by said bellows for stopping said condensing unit and simultaneously energizing said heater whereby control of said bellows is transferred from said first bulb to said second bulb.

2,531,137
PREPARATION OF SULFURIC ACID AND SODIUM CHLORIDE FROM SODIUM SULFATE SOLUTIONS
Otto Lauhi and Max Gerber, Zurich, Switzerland
No Drawing. Application February 1, 1947, Serial No. 725,962. In Switzerland June 25, 1946
4 Claims. (Cl. 23—167)

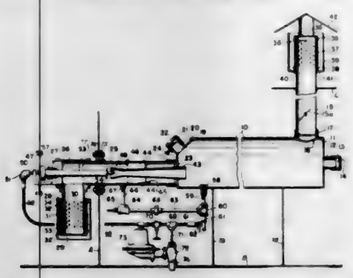
1. A process of producing sulphuric acid and sodium chloride, including the steps of introducing sulphur dioxide and chlorine into an aqueous solution of sodium sulphate in which the reaction is carried out at temperatures which do not exceed 100 degrees centigrade.

2,531,138
TIMING APPARATUS
Richard H. Lehde, West Hartford, Conn.
Application March 9, 1949, Serial No. 80,516
6 Claims. (Cl. 161—1)



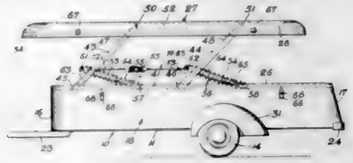
1. Timing apparatus operable through an initial cycle and a subsequent cycle of increased duration comprising in combination, a coiled driving member adapted to unwind with increasing speed when subjected to increasing temperature, an escapement adapted to operate from slow to relatively faster speed, a gear train operatively connected at one end to said escapement, means connecting the opposite end of said gear train, said gear train including means adapted as said drive member is wound for disconnecting said drive member and escapement.

2,531,139
HEATER WITH SAFETY SCREEN AIR INLET
Russell M. Lilly, Wink, and Bruno R. Schabarum, Midland, Tex.
Application May 7, 1948, Serial No. 25,738
4 Claims. (Cl. 126—85)



1. A heater, comprising, a generally tubular combustion chamber having a burner opening in one end thereof and a chimney connected to the opposite end thereof, a closed tubular casing having one end in gas-tight connection with said burner opening, a removable closure in the outer end of said casing, a fuel pipe extending through said closure axially of said casing and having a burner tip on the inner end thereof, a mixing tube aligned with said burner tip and extending into said burner opening, a combustion air inlet pipe connected to said casing, flame-arresting means covering the intake end of said air inlet pipe, an air regulating disk valve mounted in said casing and axially adjustable relative to the inlet end of said mixing tube, a tubular operating stem for said valve concentrically mounted on said fuel pipe and extending through said closure, annular sealing means for sealing between said fuel pipe and said stem and between said stem and said closure, and means for supplying fuel to said fuel pipe.

2,531,140
TRAILER VEHICLE FOR HOT LINE TOOLS
Leonard J. Linde, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application February 13, 1948, Serial No. 8,261
8 Claims. (Cl. 296—100)

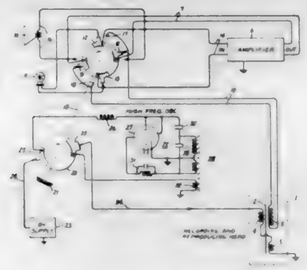


5. In a trailer vehicle for hot line tools, the combination of a moisture-tight metal box-like body which is open at its top and which is elongated from front to rear to receive long operating poles for hot line tools, the said container being provided longitudinally of the center of its open top with a pair of longitudinally extending frame members carried by the container, a top cover closing the open top and overlapping and depending below the upper edges of the side walls for drainage, the said top being provided with a pair of longitudinally extending frame members centrally located above said frame members in the container, a parallelogram linkage connecting the cover and the container, said linkage consisting of a pair of front links rigidly joined together and a pair of rear links rigidly joined together, these pairs being pivotally mounted on the frame members of the container and on the frame members of the cover, to lie in substantially horizontal position when the cover is closed, and compression spring means acting between the frame members of the container and one of said links, adjacent the lower pivot of said link so that the compression spring means is compressed to substantially horizontal position when the cover is closed, in which position the spring means acts at a minimum moment arm on the link so that its strength is insufficient to lift the cover, which remains closed by gravity, but as the cover is elevated by hand, the moment arm at which the spring means acts on the link increases until the compression spring means holds the cover in elevated position.

2,531,141
DEMAGNETIZATION OF ELECTROMAGNETIC RECORDING HEADS
William F. Lootens, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application February 7, 1947, Serial No. 727,177
10 Claims. (Cl. 179—100.2)

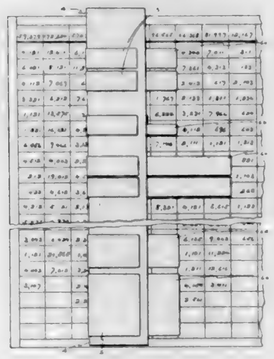
1. In a magnetic recording and reproducing system a recording and reproducing head, an energy source coupled to said head for exciting said head with oscillations at a predetermined

constant frequency during recording, and means for conditioning said head for reproducing comprising means for progressively reducing the in-



tensity of said oscillations from said source, and means operative after said oscillations have been substantially reduced for decoupling said source from said head.

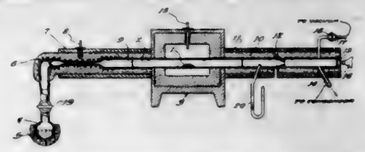
2,531,142
MASKING DEVICE
Hunter W. Madison, Washington, D. C.
Application November 26, 1945, Serial No. 630,738
2 Claims. (Cl. 283—1)



1. A masking device for facilitating the reading of tabulated data by hiding from view those items which are to be omitted, comprising a bar provided with a plurality of two-leaf spring clips of different widths, each having its lower leaf extended to project from the bar as a masking member, so that clips of different widths may be combined to get varied masking widths and these may be sprung onto the bar in chosen positions to get varied spacings between them to match the various widths and spacings found in tabulated data.

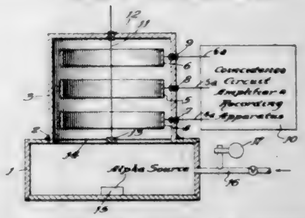
2,531,143
METHOD OF PURIFYING BERYLLIUM OXIDE
John G. Malm and Clyde A. Hutchison, Jr., Chicago, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application November 19, 1948, Serial No. 61,138
4 Claims. (Cl. 23—140)

1. A process for the purification of beryllia from the impurities normally associated therewith, comprising heating said beryllia in contact with steam to a temperature from 1000° C. to the melting point of beryllia and cooling the re-



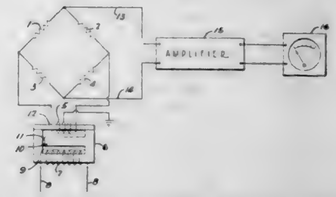
sultant beryllia-containing vapor to yield a condensate of beryllia.

2,531,144
COINCIDENCE PROPORTIONAL COUNTER
John H. Manley, Urbana, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 13, 1945, Serial No. 634,861
7 Claims. (Cl. 250—27.5)



1. A proportional counter for measuring the energy spectrum of a particle-emitting ionizing source comprising a chamber containing argon gas, a wire-like electrode suspended centrally of said chamber, a cross wire for maintaining said electrode in its central position, a source of positive high voltage connected to said electrode, a plurality of ring-shaped collecting electrodes surrounding and coaxially disposed with respect to said wire-like electrode, a coincidence amplifier circuit to which said ring-like electrodes are separately connected, said chamber having a bottom portion supporting an alpha particle emitting source below said wire-like electrode and said collecting electrodes and substantially axially thereof, conduit means for admitting gas into said chamber, and a pressure gauge connected to said conduit means for indicating the gas pressure.

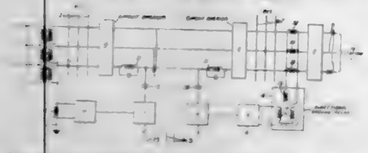
2,531,145
ELECTRICAL RESISTANCE MEASUREMENT
Salvatore M. Marco and Wells L. Davis, Columbus, Ohio, assignors to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 21, 1947, Serial No. 736,144
1 Claim. (Cl. 175—183)



In an electrical measuring circuit employing a Wheatstone bridge of limited power dissipating capacity, a saturable core transformer having its secondary connected to one diagonal of the bridge, an amplifier connected to the other of the di-

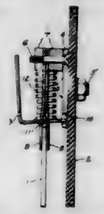
agonal of the bridge, a rectifier connected to the output side of the amplifier, and a vacuum tube voltmeter operatively connected to the rectifier to indicate the voltage delivered by the rectifier.

2,531,146
SYSTEM OF POLARIZING RELAYS
Andrew J. McConnell, Delmar, N. Y., assignor to General Electric Company, a corporation of New York
Application December 2, 1948, Serial No. 63,034
9 Claims. (Cl. 175—294)



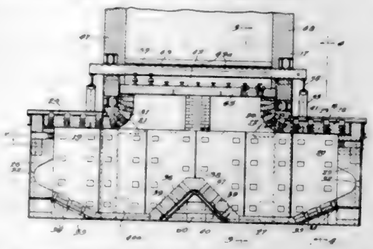
1. In an electrical power system an arrangement for polarizing a relay associated with the system in accordance with an electrical quantity derived from a Y-connected power transformer having a grounded neutral and located at a point remote from the relay, said arrangement comprising a carrier current system, means for actuating said carrier system including a current transformer energized by the flow of current between the neutral of the power transformer and ground during a fault condition, and means operable in response to the actuation of said carrier system for supplying a polarizing quantity to said relay.

2,531,147
CLAMPING DEVICE
George L. McFarland, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application April 24, 1947, Serial No. 743,687
3 Claims. (Cl. 188—166)



1. In a clamping device for a rotatable dial, a supporting panel disposed in substantially parallel spaced relation with said dial, a pair of elongated resilient clamping members mounted upon said panel at one end in substantially parallel contiguous relation and having their opposite ends adapted to be disposed on opposite sides of said dial and biased apart in slightly diverging relation, an L-shaped clamping plate having one leg apertured and fitting over the diverging portions of said clamping members and the other serving as an operating leg extending along said clamping members in substantially parallel spaced relation, means for pivotally mounting said clamping plate upon a portion of said panel acting as a fulcrum at the end of said apertured leg to provide for sliding movement of said apertured leg along the diverging portions of said clamping members as said operating leg of said plate is moved toward and away from said panel, said plate fitting loosely over said clamping members when at one end of said diverging portions and pressing said clamping members into clamping relation with said dial when moved toward the diverging ends of said clamping members, and a compression spring encircling said clamping members and disposed between a fixed seat at one end and said clamping plate at the other end, thereby to bias said clamping plate to hold said clamping members in clamping position.

2,531,148
DRYING FURNACE
Donald J. McGowan and Anthony Ferdinand Haller, Milwaukee, Wis., and Loren L. Hebberd, Chicago, Ill., assignors to The S. Obermayer Co., Chicago, Ill., a corporation of Ohio
Application December 19, 1946, Serial No. 717,262
3 Claims. (Cl. 263—19)

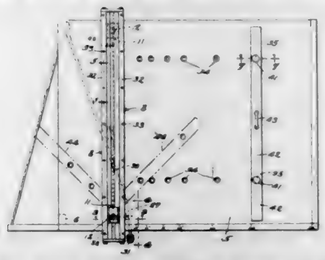


1. A drying furnace having combustion chambers with diluting chambers therebetween and above the combustion chambers and a stack about said furnace having a drying room therein above said chambers, the top wall of the respective combustion chambers leading into the respective dilution chambers, the walls of said combustion chambers having fuel and air inlet openings, a floor for said furnace having air inlet ports adjacent said fuel inlet ports, said floor having a centrally located raised portion below the diluting chambers providing inclined faces substantially facing the combustion chambers and deflecting upwardly towards the diluting chambers the combustion gases moving from the combustion zones, said inclined faces having ports for introducing air into the furnace to mix with the gas stream at an angle to the direction of movement of said stream to cause turbulence therein; a baffle positioned across the diluting chambers for changing the direction of the gas stream, passages in the furnace around said baffle and leading to the stack to carry the diluted gases to said stack, air intake flues in the furnace walls and ports leading from said walls to the baffle to lead cold air thereto at an angle to the direction of flow to mix with the gases flowing from the dilution chambers to the stack to cause further turbulence, ports in the stack wall at a height substantially coincident with the height of the baffle to introduce air into the stack where the cooled gas stream from the dilution chamber passes around the baffle to cause still further turbulence and to further dilute the combustion gases before they pass to the drying chamber.

2,531,149
FLOOR TILE CUTTING APPARATUS
Howard T. Melchor, Albuquerque, N. Mex.
Application April 1, 1949, Serial No. 84,869
4 Claims. (Cl. 164—79)

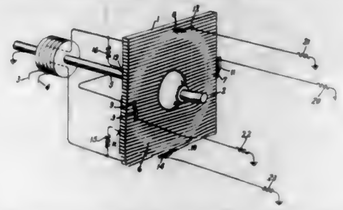
1. An apparatus for cutting sheet material into squares, comprising a table having a transverse groove formed therein, vertically movable guide bars disposed adjacent to opposite sides of the groove, vertically movable posts extending

through the table to which the guide bars are connected, said posts being arranged in pairs at opposite ends of the guide bars, a transverse connecting bar connecting the posts at opposite sides of the table, coiled springs disposed between the table and transverse bar, said springs normally drawing the guide bars towards the table clamping the article to be cut, between the guide bars



and the table, foot controlled means for elevating the guide bars, clamping bars carried by the guide bars, said clamping bars engaging the sheet material being cut, a carriage movable longitudinally of the guide bars, a cutting blade carried by the carriage and movable in the groove cutting material positioned over the groove, and a handle by means of which the carriage is operated.

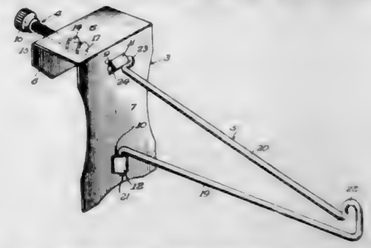
2,531,150
DIRECT CURRENT FLAT CARD RESOLVER
Robert Murdick, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 16, 1949, Serial No. 110,536
2 Claims. (Cl. 201—48)



1. In combination, a voltage variation apparatus comprising a winding circumscribed about a card, the ends of said winding being connected to a source of electromotive force, said winding being connected to ground at a point intermediate said ends, a resistance element connected from one end of said winding to a point intermediate said one end and ground, a resistance element connected from the other end of said winding to a point intermediate said other end and ground, a contacting assembly comprising a plurality of spring-like arms having brushes affixed thereto, a shaft affixed to said card and contacting assembly to allow relative rotational motion between said assembly and said card structure.

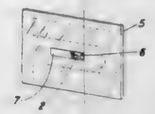
2,531,151
BRACKET TYPE SUPPORT FOR CLOTHES HANGERS
Conrad J. Patt, Chicago, Ill.
Application December 17, 1945, Serial No. 635,458
1 Claim. (Cl. 211—106)

As a new article of manufacture, a bracket type support adapted to be applied to a door or the like and to carry hook equipped clothes hangers and comprising an inverted U-shaped bracket embodying spaced apart side pieces depending from the side margins of a top piece, shaped to straddle the upper margin of the door, formed of a one-piece sheet metal stamping and having formed on the upper portion of one of its side pieces an integral out-struck horizontally extending open ended eye and on the lower portion of the one side piece an integral out-struck vertically extending open ended eye in substantially vertical alignment with the horizontally extending eye, and a one-piece arm formed of heavy wire, extending outwards from said one side



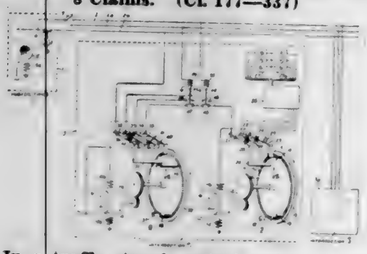
piece of the bracket, adapted to have applied thereto the hooks of the clothes hangers to be carried by the support, and consisting of vertically aligned and spaced apart upper and lower parts, the lower part of the arm extending horizontally and having the inner end thereof bent downwards at right angles to form a depending hook fitting within the vertically extending eye, the upper part extending upwards and inwards from the outer end of the lower part and having its inner end bent laterally back and forth to form a horizontal 180° loop and in addition a horizontal hook connected to the outer end of the loop and fitting within said horizontally extending eye.

2,531,152
CONTAINER AND APPLICATOR FOR SMALL ARTICLES
Sherman E. Pate, Chicago, Ill., assignor to Permo, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 10, 1949, Serial No. 114,973
5 Claims. (Cl. 206—66)



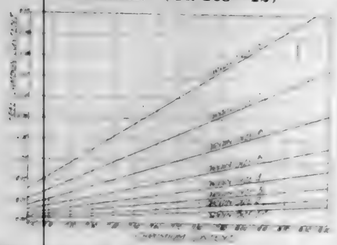
1. In combination a phonograph needle and a holder and applicator therefor comprising an elongated fibrous member, a needle the playing end of which is frictionally held and supported by displacement of the fibrous material in one end thereof, the other end of said needle forming an extension of the longitudinal axis of the member, and a protector means for said other end of said needle, said needle protector means comprising a member extending at least on two sides and across the said other end of said needle and in fixed relation thereto, and means for mutually supporting said elongated fibrous member in a fixed position with relation to and in detachable engagement with, said needle protector means.

2,531,153
TRAFFIC SIGNAL CONTROL SYSTEM
William C. Pennell, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application December 29, 1949, Serial No. 135,616
8 Claims. (Cl. 177—337)



1. In a traffic signal control system, a master timing element, a secondary timing element, means for maintaining said master and secondary timing elements in a predetermined fixed synchronous relationship, an interval timing element, and selectable synchronizing means controlled by said secondary timing element for maintaining said secondary and interval timing elements in any one of a plurality of selectable phase displaced synchronous positional relationships.

2,531,154
PROCESS FOR PRODUCING STAINLESS STEEL IMMUNE TO INTERCRYSTALLINE CORROSION
Freeman J. Phillips, McKeesport, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application November 6, 1945, Serial No. 627,076
2 Claims. (Cl. 148—12)



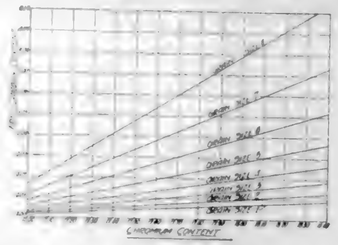
1. The method of preventing intergranular corrosion in austenitic stainless steels containing at least 16.75% chromium comprising the steps of analyzing the steel for chromium content, analyzing the steel for free carbon content, and treating the steel to produce a maximum grain size such that:

$$E \leq (P - 16.75) \tan 18°$$

wherein E is the maximum free carbon content per inch of grain boundary per square inch of surface, and P is the chromium content.

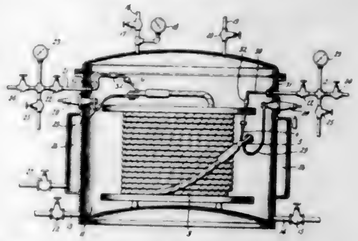
2,531,155
STAINLESS STEEL
Freeman J. Phillips, McKeesport, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application November 6, 1945, Serial No. 627,077
3 Claims. (Cl. 75—128)

2. Austenitic stainless nickel-chromium titanium bearing steels immune to intercrystalline corrosion containing more than 16.75% chromium, 7 to 12 per cent nickel and a percentage of carbon uncombined with titanium below a minimum defined as a tangential function of the chromium content thereof, said tangential function being within the range of an angle of about



4 degrees for steels having a No. 1 grain size according to the A. S. T. M. grain size standards to an angle of substantially 25 degrees for steels having a grain size corresponding to No. 8 of the A. S. T. M. grain size standard in accordance with Figure 2 of the drawing.

2,531,156
METHOD OF INSULATING HOLLOW CORE CONDUCTORS
Carl A. Piercy, Ballston Lake, and Robert S. Kent, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application April 17, 1945, Serial No. 588,742
2 Claims. (Cl. 117—61)

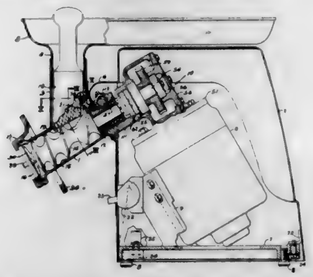


2. The processing of a cable having a liquid pervious hollow core stranded conductor covered with fibrous insulation which comprises the steps of passing an electric current through the cable to raise the temperature thereof, simultaneously subjecting the cable to vacuum to remove air and other impurities from the insulation and from the hollow core conductor, submerging the cable under vacuum conditions in an impregnating liquid having electric insulating characteristics and a Saybolt viscosity at 100° C. ranging from 95 to 215 for a period of time sufficient to allow complete impregnation of the cable insulation under such vacuum conditions, reducing the cable temperature, draining excess liquid from the cable while under the reduced temperature conditions, applying gas under pressure to one end of the conductor core with the other end open to atmosphere to force residual slugs of insulating compound out of the other end of the core and then closing said other end of the hollow core to create a higher pressure therein than exists exterior of the cable so as to force excess liquid retained in the conductor radially outwardly through the insulation along the length of the cable.

2,531,157
RECIPROCAL DUAL CIRCUIT BREAKER DOUBLE INTERLOCK MECHANISM
Edgar A. Pifke, Philadelphia, Pa., assignor to General Electric Company, a corporation of New York
Application August 18, 1949, Serial No. 110,934
8 Claims. (Cl. 200—50)

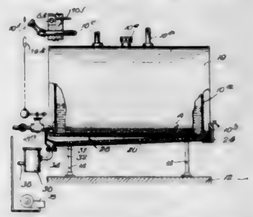
1. In combination, two circuit breakers, each having closing means including a movable closing member and tripping means including a movable tripping element, separate interlocking connections between the closing member of each breaker and the tripping element of the other breaker for moving the element to its tripping position upon movement of the member towards its closing position, and lost-motion mechanism for interlocking said connections to prevent movement of the other closing member towards its closing position when either member is in its closing position.

2,531,158
MEAT CHOPPING DEVICE WITH WORM-GEAR DRIVING MEANS
Bruce E. Robinson, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application February 26, 1945, Serial No. 579,729
3 Claims. (Cl. 146—182)



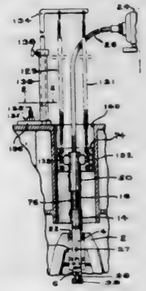
1. In a chopper for comminuting meat or other products, an inclined motor and an oil retaining drive housing for the driving mechanism between the motor and a feed screw in a chopper cylinder, said housing comprising a base concentric with the armature shaft of the motor and supported by the upper end of the motor, an enclosure including a pair of parallelly opposed walls erected from said base, a generally cylindrical sleeve extending from one of said opposed walls, the other of said walls having an access opening coaxial with said sleeve, a cover for said opening, means in said sleeve and said cover for journaling a drive shaft with a worm wheel on the drive shaft engaged with a worm on the armature shaft, and a tubular sleeve slipped over the armature shaft and pressed into the frame of the motor, said housing being proportioned so that the center of its volume substantially coincides with the end of said tubular sleeve.

2,531,159
SYSTEM FOR BURNER CUTOFF AND SIGNALING MEANS UPON TANK LEAKAGE
William G. Rowell, Wollaston, Mass.
Application April 15, 1948, Serial No. 21,274
11 Claims. (Cl. 158—42.3)



1. A device for preventing fire due to leakage of fuel oil from storage tanks comprising, in combination, an oil burner having an electrical igniting system, a fuel supply apparatus, a fuel oil storage tank of the oval cross-section type having an elongated rounded bottom surface, a conduit connecting said tank to said burner, an elongated oil collecting trough mounted in spaced relation to the bottom surface in a position to receive oil leaking from lowermost portions of the tank surface, and means operating in response to flow of oil along the oil collecting trough for opening the power supply line for the said electrical igniting system and the fuel supply apparatus.

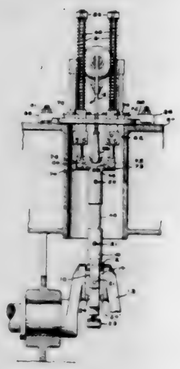
2,531,160
CRANKSHAFT GRINDER
Harry T. Rutherford, Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application August 19, 1946, Serial No. 691,554
9 Claims. (Cl. 51—241)



9. A power tool for grinding the throws of an engine crankshaft while positioned in the engine, comprising a power driven grinding wheel, means contacting the crankshaft on only the side opposite the cylinder for positioning the wheel tangent to the crankshaft throw on the side adjacent the cylinder, driving means extending into the cylinder for rotating the grinding wheel,

and guide means engaging the engine block for locating the tool against angular displacement in the plane common to the crankshaft and cylinder axes.

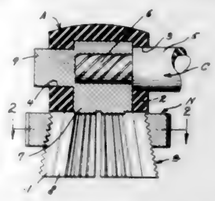
2,531,161
CRANKSHAFT GRINDER
Harry T. Rutherford, Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application July 15, 1947, Serial No. 761,119
4 Claims. (Cl. 51—241)



1. A throw bearing surface grinding tool for an assembled crank shaft and engine cylinder block comprising a grinding wheel and a drive shaft therefor, supporting means for said wheel and drive shaft having a portion thereof extending outwardly from one side of the said wheel to receive one end of the said drive shaft, said shaft extending through the cylinder area of the block for rotating the said wheel in a plane parallel with the axis of the crank shaft bearing, tool positioning means adjacent the outer end of the tool consisting of reciprocatory guide means pivotably connected with the said wheel support at a point within the cylinder, and a bracket adapted to be fixably secured to the block adjacent the outer end of the cylinder, said bracket having means for directing the said guide means along a predetermined path, means for urging the said tool toward the outer end of the cylinder, positioning means adjacent the opposite end of the tool for engaging the crank shaft and having means associated therewith for supporting the wheel in proper grinding relationship with the said shaft as the same is rotated.

2,531,162
BATTERY CONNECTOR
Herbert E. Rutherford, Paterson, N. J.
Original application August 19, 1947, Serial No. 769,505. Divided and this application July 9, 1948, Serial No. 37,916
1 Claim. (Cl. 173—259)

A battery terminal connector for an insulated cable having an end portion of its conductor bared, comprising a body of an insulating material formed to provide a cylindrical top part and a flared annular lower part, a metal body embedded in said cylindrical part and having its lower end exposed at the upper end of the opening through said flared part, said metal body having a bore opening laterally outward and aligned with an opening in the side of said cylindrical part for the tight fit of said bared end of the cable therein with the adjacent end of the insulation of the cable tight fitted in the opening in the cylindrical part, a lug projecting laterally from said metal body and outwardly through the side of said cylindrical part opposite from said bore for the attachment of a re-charging clip thereto, said flared part being split longitudinally at equi-

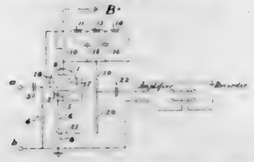


distantly spaced points about the same, metal contact liners on the inner sides of the split portions of said flared part and in electrical contact with the lower end of said metal body, an angled projection on the outer side of each of said liners embedded in said split portions, the inner faces of said liners being serrated for the effective gripping of a battery terminal, said flared part being exteriorly screw threaded, and a nut engaged with the screw threads of said flared part to compress the split portions to force said liners into tight engagement with the battery terminal.

2,531,163
CRANKSHAFT GRINDER
Harry T. Rutherford, Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application September 3, 1948, Serial No. 47,599
3 Claims. (Cl. 51—241)

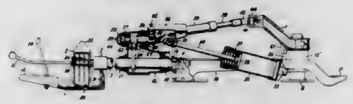
1. A power tool for grinding the throws of an engine crankshaft while positioned in the engine comprising a head having a bearing for a grinding wheel shaft extending perpendicularly to the crankshaft, a grinding wheel shaft mounted in the bearing and carrying a grinding wheel with its flat end face tangent to the surface of the crankshaft throw, means for driving the grinding wheel shaft, a yoke embracing more than half the circumference of the crank throw in spaced relation thereto and secured rigidly to the head, rigid positioning means secured to the yoke on the side opposite the grinding wheel for contacting the crank throw, and resilient means comprising a pair of leaf springs contacting the throw near the grinding wheel for constantly urging the head away from the throw and maintain a tight contact of the positioning means with the throw.

2,531,164
PULSE AMPLIFIER
Matthew L. Sands, Oxford, Mass., Otto R. Frisch, Liverpool, England, and William C. Elmore, Swarthmore, Pa.; said Matthew L. Sands and William C. Elmore assignors to the United States of America as represented by the United States Atomic Energy Commission
Application March 19, 1945, Serial No. 583,496
3 Claims. (Cl. 178—44)



1. In an amplifier responsive to transient impulses, a vacuum tube having anode, cathode, and control electrodes, an input circuit having a characteristic time constant for return to static operating condition after receipt of an input pulse connected between said cathode and said control electrode adapted to receive step pulses at a rate faster than the recovery time of said circuit, determined by its electrical constants, an output circuit between said anode and cathode electrodes including an impedance common to said input and output circuits, means in said output circuit for completing a step pulse within a predetermined time interval comprising a closed end artificial line generating an image of said pulse in reversed phase and circuit means including a resistance substantially equal to the characteristic impedance shunting the open end of said line for applying said image to said output circuit whereby the resultant of said step pulse and said image pulse form a square pulse, means for compensating losses occurring in said line and tending to complete said image pulse above the static operating output level comprising an inverse feedback circuit between said common impedance and said anode circuit, said line being of such electrical length that the time delay in the application of said image pulse is substantially less than the time interval between application of said input pulses.

2,531,165
ELECTRIC SWITCH
Emil Scheuermeyer, Upper Darby, Pa., assignor to General Electric Company, a corporation of New York
Application September 17, 1947, Serial No. 774,462
11 Claims. (Cl. 200—48)

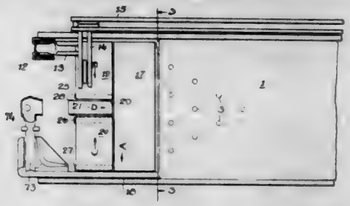


1. An electric switch having in combination, a rotatably mounted operating crank, a stationary contact having a stop adjacent thereto, and a cooperating circuit controlling member having a pivot axis perpendicular to the axis of the crank and intermediate said contact and the axis of rotation of said crank and substantially perpendicular to the longitudinal axis of the member for swinging movement of the free end of the member into engagement with the stop adjacent the contact, said member being mounted for rotary movement about its longitudinal axis to engage said contact when the free end of the member is in engagement with the stop means for effecting said swinging and rotary movements of said member sequentially upon rotation of said crank in one direction whereby to swing the member to bring its free end into engagement with the stop and then to rotate the member to engage the contact, said means comprising an arm rigidly mounted on said member, a rotatably mounted element supported for bodily movement with said member during the swinging movement thereof and engageable with said arm to effect turning thereof when rotated whereby to rotate the member, and a compressible swivel link comprising two relatively rotatable telescoping sections having a compression spring therebetween and respectively pivotally connected to said element and to said crank for swinging the member during a part of the rotary movement of the crank until the free end of the member is in engagement with the stop and thereafter providing a combined yielding telescoping and swivel movement of the sections for rotating the element during a further portion of the rotary movement of the crank whereby to rotate the member to bring its free end into engagement with said contact.

2,531,166
DETERGENT CONCENTRATE
Charles M. Shaw, Albany, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application November 8, 1947, Serial No. 784,883
5 Claims. (Cl. 252—161)

1. A concentrated stable dispersoid of an alkyl aryl sulfonate detergent in a liquid hydrocarbon, said dispersoid comprising said liquid hydrocarbon having dispersed therein from a minimum of 25–35% by weight to a maximum of 40–50% by weight, based on said dispersoid, of a detergent consisting of a long chain alkyl aryl sulfonate detergent consisting predominantly of alkyl aryl sulfonates containing from 10 to 16 carbon atoms in a single alkyl side chain and an inorganic salt builder therefor selected from the group consisting of alkali sulfates, alkali phosphates and alkali pyrophosphates, and from about 4 to about 20% by weight, based on said dispersoid, of an organic solubilizer from the group consisting of water soluble aliphatic alcohols, ketones, and ether alcohols, soluble in said liquid hydrocarbon to the extent of at least about 5%.

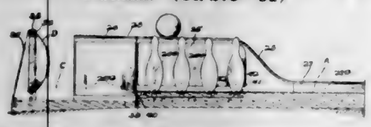
2,531,167
BOWLING ALLEY PIN AND BALL SEPARATING AND CONVEYING MECHANISM
Arthur M. Simpson, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application April 18, 1946, Serial No. 663,018
11 Claims. (Cl. 273—43)



1. In a pin setting apparatus for bowling alleys, a series of conveyors positioned in the pit at the end of the alley and comprising a transverse belt for delivering the pins to one side of the

pit, a pair of oppositely moving transverse belts located to the rear of the first mentioned belt and moving inwardly toward each other, and a moving belt positioned between the pair of belts and extending longitudinally of the alley for delivering pins to the first mentioned belt, said belts being arranged in a substantially closed pattern.

2,531,168
BOWLING ALLEY
Hanson G. Snyder, Newtown Square, Pa.
Application October 23, 1946, Serial No. 704,999
1 Claim. (Cl. 273—51)

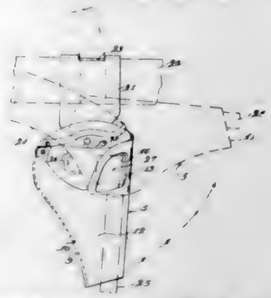


An outdoor bowling alley, including a ground trench of required depth, width and length, comprising a foundation formed of a bottom layer of gravel or the like leveled within the trench, a leveled layer of cinders superimposed upon the layer of gravel, a leveled layer of reinforced concrete superimposed upon the layer of cinders, the top surface of the concrete being substantially level with the ground surface, gutters formed in the top surface of the concrete and inwardly of the opposite side edges thereof, a laminated plastic layer bonded to the top surface of said foundation between said gutters, a wall rising from the top surface of said foundation at the outer side of one of said gutters, a pit formed at the rear end of said foundation by a reduction in the thickness of the concrete layer, the height of said side wall being increased at the opposite ends thereof, a second side wall rising from the rear end of said foundation opposite the rear end of said one side wall, another side wall rising from said pit in line with said second wall, the last named side walls being of equal height and correspondingly with respect to the height of the rear end of said one side wall, a transverse wall of a slightly greater height than that of the last named said walls at the rear end of said pit, said one side wall terminating short of said transverse wall to provide an entrance to said pit between the same, and a ball return track mounted upon and coextensive with said one side wall.

2,531,169
METHOD OF MAKING INSULATED ELECTRICAL CONDUCTORS
Murray M. Sprung, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application August 27, 1946, Serial No. 693,218
4 Claims. (Cl. 117—75)

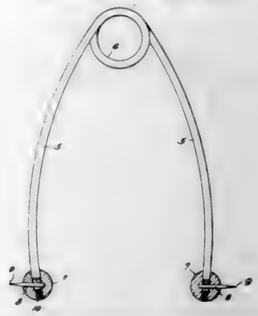
1. The method of insulating a wire which comprises the steps of drawing the wire through a first bath of enamel comprising a phenol-aldehyde-modified polyvinylal resin, baking the resulting coating at temperatures between about 200° C. and about 500° C., drawing the wire through a second bath of enamel comprising a liquid dispersion containing (1) a resin selected from the class consisting of polymers of vinyl chloride and copolymers of vinyl chloride and vinyl acetate, (2) pigment, (3) a liquid capable of wetting and swelling said resin containing compounds selected from the class consisting of esters of phthalic and phosphoric acids, and (4) a liquid consisting of hydrocarbons having boiling points between about 100° C. and 225° C., said pigment being present in an amount of from about 30 percent to about 60 percent of said resin and the ratio of the total weight of ingredients (1) and (2) to the total weight of ingredients (2) and (3) being from about 1 to 2½ to approximately 1 to 3½; and baking said second layer at temperatures between about 200° C. and about 500° C.

2,531,170
FIREARM HOLSTER
John O. Tackett, Jackson, Miss., assignor of one-third to W. T. Nickell, Jackson, Miss.
Application August 13, 1947, Serial No. 768,413
3 Claims. (Cl. 224—2)



1. A holster for revolvers or the like comprising a hollow holster body having an inner wall and an outer wall defining a relatively large opening at the top of the holster and a restricted opening at the bottom thereof through the latter of which a muzzle of a revolver is adapted to extend and from the former of which projects the hand-grip of the revolver, and said holster having an opening in its inner wall and a recess in the upper edge of the outer wall in register therewith for exposing the revolver trigger on both sides thereof whereby said revolver can be fired while applied to the holster.

2,531,171
INCISION SPREADER
Alec Thomson and George D. Buffington, Akron, Ohio
Application October 4, 1948, Serial No. 52,636
2 Claims. (Cl. 27—21)



1. An incision spreader, comprising a length of yieldable wire material bent upon itself providing

an intermediate loop portion and spaced leg members curved in the arcs of circles, removable balls secured at the ends of the leg members, said balls and leg members having aligning openings, piercing pins disposed within the aligning openings, the pointed ends being disposed outwardly, and means for securing the pins and balls against movement with respect to the leg members.

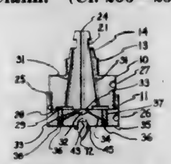
2,531,172
PREPARATION OF ISOPHTHALIC ACID
William G. Toland, Jr., Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 17, 1947, Serial No. 786,549
4 Claims. (Cl. 260—524)

1. A process for the production of a benzene meta dicarboxylic acid which comprises noncatalytically oxidizing a benzene monocarboxylic acid possessing an alkyl group meta to the carboxyl group in the liquid phase with an oxygen-containing gas at temperatures within the range of about 300 to 550° F.

2,531,173
PREPARATION OF TEREPHTHALIC ACID
William G. Toland, Jr., Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 17, 1947, Serial No. 786,550
5 Claims. (Cl. 260—524)

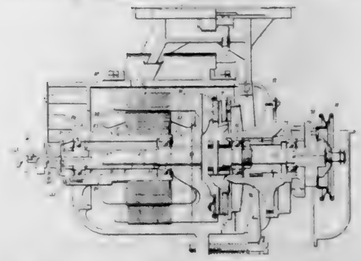
1. A process for the production of a benzene para dicarboxylic acid which comprises noncatalytically oxidizing a benzene moncarboxylic acid possessing an alkyl group para to the carboxyl group by intimate contact with an oxygen-containing gas in the liquid phase at the temperature within the range of about 370 to 550° F.

2,531,174
HOLE BURNING TORCH TIP
Emile A. Tomlin, Cambridge, Mass.
Application August 23, 1949, Serial No. 111,821
1 Claim. (Cl. 266—23)



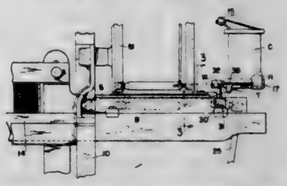
A torch tip of the class described, comprising a body member having an axial passage therethrough for receiving oxygen from a torch, having an intermediate threaded portion around said passage for screw connection to a torch, and having a conical rear portion around said passage which converges from said threaded portion to its rear end for forming a seal with a corresponding conical portion of a torch, said conical rear portion having an annular groove therein for receiving combustion gas from a gas duct of a torch, said member terminating at its front end in a cylindrical portion having an end face in which said axial passage at its front end terminates and having an annular groove formed therein providing a chamber, a plurality of longitudinal gas passages in said member around said axial passage and terminating in their rear ends in said first mentioned groove and at their forward ends in said chamber, a tip member screw threaded to said body member, said tip member having a seat portion seated against the end face of said body member and having a depression formed in the central portion of said seat portion and forming a chamber in alinement with said axial pasage, passageways extending outwardly from said depression and angularly through said tip member and forming a series of oxygen outlets spaced equidistant from the center of said tip member, an annular series of combustion gas passageways formed through the tip member and surrounding each of said oxygen outlets and communicating with said first mentioned chamber, and means forming a pivot point located in the center of said tip member and extending outwardly from the front face thereof.

2,531,175
LUBRICATING MEANS FOR ELECTRIC MOTOR-CLUTCH DRIVES
Edgar P. Turner, Fanwood, and Frank A. Hayes, Middletown, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 10, 1948, Serial No. 32,233
5 Claims. (Cl. 308—121)



1. In an electric transmitter having a casing formed with a centrally arranged tubular portion carrying spaced ball-bearings, the combination of a motor shaft journaled in said bearings and formed with an opening in one of its ends, a tubular stud having its axis alined with the axis of the motor shaft and spaced therefrom, a tube formed with a restricted opening in one end and slidably mounted in said stud, means for supplying grease under pressure to one end of said stud, and conduits connecting the opening in the end of the shaft with said spaced ball-bearings.

2,531,176
THREAD CONTROL FOR WEFT REPLENISHING LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application May 17, 1949, Serial No. 93,792
6 Claims. (Cl. 139—257)



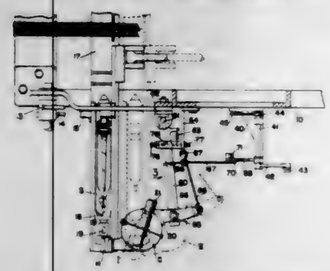
1. In thread control means for a weft replenishing loom having a lay provided with a center filling stop fork and wherein a thread extends

from a transferred bobbin in a shuttle on the lay to a thread holder, the shuttle being picked during backward motion of the lay and traveling along the lay as the latter moves to the back center position thereof, a thread moving member on the lay in front of said thread moving the latter rearwardly during part of the backward motion of the lay to facilitate threading of the shuttle, and a cast-off member effective as the lay approaches the back center position thereof to disengage the thread from the moving member, the shuttle due to motion thereof along the lay thereupon cooperating with the thread holder to draw the thread under the filling stop fork.

2,531,177
THREAD HOLDER FOR WEFT REPLENISHING LOOMS

Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application May 17, 1949, Serial No. 93,793
18 Claims. (Cl. 139—257)



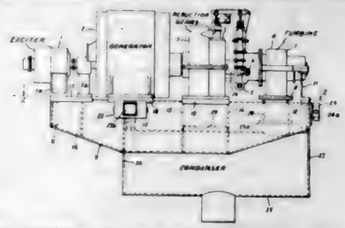
1. In a weft replenishing loom having a reserve bobbin magazine from which weft ends extend and having a backwardly and forwardly reciprocating lay provided with a center filling fork, a thread holder for said weft ends, means mounting the thread holder for movement backwardly and forwardly in the loom, and means cooperating with the mounting means effecting backward motion of the thread holder to a position to facilitate threading of a shuttle during the first pick thereof subsequent to replenishment thereof with a bobbin from the magazine and thereafter effecting forward motion of the thread holder to a position to facilitate movement of the thread of the shuttle under said filling fork.

2,531,178
FRAME STRUCTURE FOR TURBINE-GENERATOR PRIME MOVERS

Francis H. Van Nest, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

Application September 8, 1949, Serial No. 114,482
5 Claims. (Cl. 60—95)

1. In a frame for a machine of substantial axial length having bearings the alignment of which depends on the rigidity of the frame, the combination of a base comprising a pair of transversely spaced longitudinal side beams extending substantially the length of the machine, at least two longitudinally spaced cross members connecting the side beams, two parallel transverse plate members depending from the cross members, at least one of the plate members being adapted to flex in a longitudinal direction so the distance between the depending end portions of the plates may change without imposing excessive stresses on the base, a hollow elongated substantially cylindrical shell disposed longitudinally beneath the base, and means securely fastening said depending plate end portions to axially spaced portions of said shell whereby

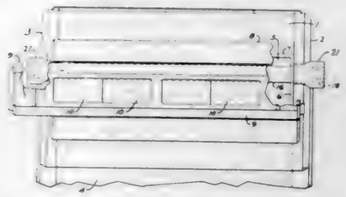


forces tending to torsionally deform the base about a longitudinal axis are resisted by the shell while the shell is free to expand and contract longitudinally, there being no points of rigidly fixed connection between the shell and base intermediate said plates.

2,531,179
WEIGHING MACHINE ILLUMINATOR

Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application May 30, 1945, Serial No. 596,629
1 Claim. (Cl. 240—2.11)



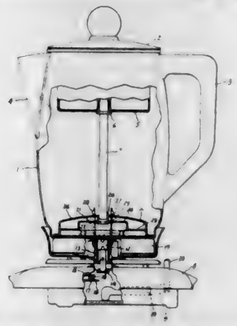
In a light source mounting for a weighing scale, in combination, a chart housing having a pair of end frames, said housing having an opening at each end that exposes a portion of the frame and space above the reading line of the chart of the scale, an elongated bulb that extends between the end frames and that is insertable through the openings, and a socket for each end of the bulb, said sockets being mounted externally of the frame and housing and electrically connected to wiring within the housing, said sockets being removably secured to said end frames and constituting covers for the openings whereby the light bulb may be replaced without disassembly other than the removal of a socket from the frame.

2,531,180
AUTOMATIC CONTROL FOR WATER HEATERS

Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York

Application December 17, 1948, Serial No. 65,937
5 Claims. (Cl. 219—43)

4. In a coffee percolator having a liquid transfer tube, the combination with a stove having an electric heating element and a magnet arranged to control the current to said heating element by its movement from a first energizing position to a second deenergizing position of an armature resting on the bottom of said percolator and holding said magnet in said first position by its attraction thereto, a hot water pump attached to the lower end of said transfer tube encircling said armature, said pump having a plurality of apertures formed therein, and a float having an inverted cup configuration encircling said tube and

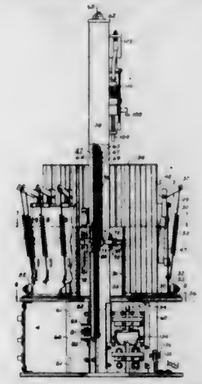


attached to said armature, said float being constructed and arranged to move upward under the force of rising water vapor issuing from said apertures thereby to elevate said armature and release said magnet to drop to said second position.

2,531,181
AUTOMATIC ARC WELDING APPARATUS

Wayne E. Wilson, Fitchburg, Mass., assignor to General Electric Company, a corporation of New York

Application December 2, 1948, Serial No. 63,041
19 Claims. (Cl. 314—5)

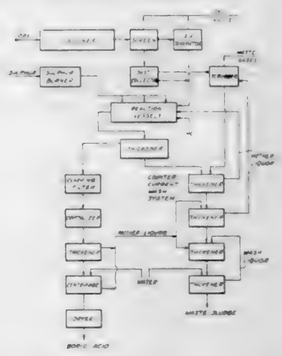


1. Automatic arc welding apparatus comprising means for lengthwise feeding a continuous column of unit length electrodes welded together in end to end engagement, a guide supported in fixed position relative to said feeding means and having a surface which locates unit length electrodes held in side engagement therewith in end alignment with said welded electrode column in said feeding means, means for holding a supply of unit length electrodes opposite said surface of said guide and in side by side relationship therewith and with one another, means for biasing said unit length electrodes in said holding means sidewise into successive engagement with said surface of said guide, a propelling member, an ejector on which said propelling member is mounted, a support along which said ejector has a travel which brings said propelling member thereon into propelling engagement with the end of a unit length electrode positioned by said guide, means for moving said ejector from and to a retracted position along a path of travel which brings said propelling member into engagement with the end of a unit length electrode positioned by said guide and propels it therealong into engagement with said electrode column in said feeding means, and means responsive to the engagement of said unit length electrode positioned by said guide with said welded electrode column in said feeding means for forming a welded union therebetween.

2,531,182
PROCESS FOR THE MANUFACTURE OF BORIC ACID

James Wiseman, Westend Calif., assignor to West End Chemical Company, a corporation of California

Application July 21, 1947, Serial No. 762,499
5 Claims. (Cl. 23—149)



1. A process for manufacture of boric acid from calcium borate comprising adding to a slurry of calcium borate, maintained at a temperature within the range of about 25° C. and about 70° C. and containing a water soluble salt of an alkaline earth metal, sulfur dioxide to maintain a pH in the slurry progressively decreasing with increasing temperature from about 5.8 at 25° C. to about 4.5 at 70° C. until formation of boric acid in the slurry is substantially complete, and recovering the boric acid, the quantity of a water soluble salt in the slurry being sufficient to prevent liberation of sulfur dioxide as such from the slurry.

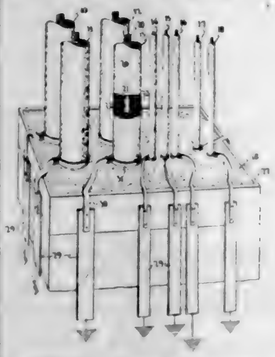
2,531,183
MEANS FOR GROUNDING CABLES

Raymond R. Wisner, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application January 23, 1945, Serial No. 574,155
8 Claims. (Cl. 174—6)

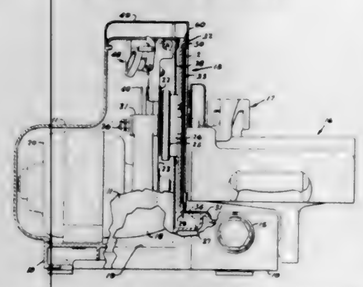
2. A device for grounding the shield of a shielded electric cable comprising an electrically conductive frame, said frame being grounded at a plurality of points and having a mass of electrically conductive filamentous material packed as a blanket therewithin and around said cable in intimate electrical contact with the shield whereby a plurality of ground paths from the shield to ground are formed by the material and the frame and means forming an additional

ground path comprising an electrically conductive member connected to said shield and to said



frame and said frame being connected to ground at the point where said member connects to it.

2,531,184
KNIFE SHARPENING APPARATUS FOR FOOD SLICING MACHINES
George R. Wood, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Continuation of application Serial No. 455,233, filed August 18, 1942. This application filed February 6, 1947, Serial No. 726,899
7 Claims. (Cl. 51—248)



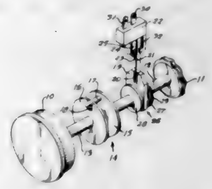
1. In a slicing machine having a rotatable circular knife and a drive therefor, in combination, a housing adjacent said knife having an aperture, and a sharpener mounted for pivotal movement through said aperture between a sharpening position in proximity to the edge of the knife and an inverted position in said housing.

2,531,185
ROLLED TYPE CAPACITOR
John H. Wurster, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 26, 1948, Serial No. 35,372
8 Claims. (Cl. 175—41)

1. In a capacitor, a plurality of capacitor subsection units adjacently positioned, each of said units comprising a pair of longitudinal strips of conducting material and a pair of longitudinal strips of dielectric material alternately disposed and wound into a roll, the outer transverse edges of said alternate strips of dielectric material being located respectively at opposite sides of said sub-section unit and a portion of said conducting strips adjacent the outer transverse edges thereof being folded back respectively around

said terminating edges of said dielectric strips and exposed respectively at opposite sides of said sub-section unit.

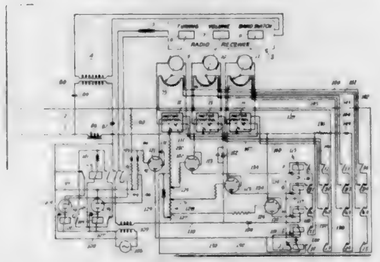
2,531,186
SWITCHING DEVICE
Michel N. Yardeny and Robert Bernas, New York, N. Y.; said Bernas assignor to said Yardeny
Application March 30, 1948, Serial No. 17,883
11 Claims. (Cl. 201—48)



1. In a switching and control apparatus, in combination, a controlled device including a movable control element and controllable by the position of said element, a pair of relatively movable contacts, yieldable means coacting with said contacts and biasing the same into a predetermined relative position, a movable actuating member, means including a coupling member operatively connecting said actuating member with the control element for entrainment thereof by the actuating member, a contact control member operatively connected with the actuating member for movement in unison therewith, said contact control member being arranged and constructed to engage a movable one of said contacts for displacement of the contacts relative to each other against the action of said yieldable means in response to a movement of the actuating member, and frictional means included in said operative connection between the actuating member and the contact control member providing for continued movement of the actuating member independently of the control member upon engagement of the latter with said movable contact, said yieldable means including a spring engaging said contact control member and tending to maintain same in a predetermined position, said coupling member permitting relative displacement between said actuating member and said control element under the control of said spring, thereby enabling said spring to return the contacts into the initial relative position thereof by causing

displacement of the contact control member together with the actuating member when the latter is released.

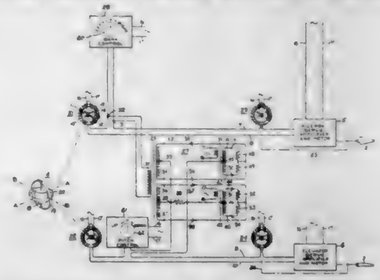
2,531,187
SWITCH-OVER SYSTEM
Michel N. Yardeny and Adolph Razdowitz, New York, N. Y.; said Razdowitz assignor to said Yardeny
Application April 23, 1948, Serial No. 22,863
19 Claims. (Cl. 171—97)



6. A remote control system comprising a control station, a remote station and a transmission line interconnecting said stations; said control station comprising a plurality of sources of different but fixed potentials, a plurality of manually controllable switches, and pulse generator means operative upon actuation of any one of said switches to connect a respective one of said sources across said line for a predetermined period, whereby a D.-C. voltage pulse of a magnitude corresponding to the potential of said respective source is transmitted to said remote station; said remote station comprising a plurality of normally non-conductive electronic devices, voltage-responsive means for connecting the inputs of said devices in parallel across said line, biasing means arranged to render each of said devices conductive upon application thereto of a minimum voltage corresponding to the potential of a respective one of said sources, a plurality of relays each operable upon excitation of a respective one of said devices, said relays having armatures connected in circuit in the order of the magnitudes of the exciting voltages of the associated electronic devices, at least certain of said relays having front and back contacts, the connection of said armatures being such that a holding circuit is closed only for that one of a series of operated relays which is controlled by the electronic device having the highest exciting voltage, a plurality of loads, and circuit means including a front contact of the respective relay and back contacts of all other of said relays for respectively connecting each of said loads across said transmission line.

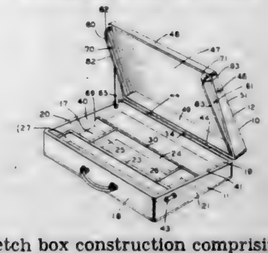
2,531,188
AUTOMATIC PITCH CONTROL
Charles G. Yates, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 26, 1949, Serial No. 129,620
2 Claims. (Cl. 244—77)

1. In an autopilot system for aircraft, the combination comprising, actuating means for controlling said aircraft about its pitch axis, control means for producing a signal for displacing said aircraft about its pitch axis and having an output circuit connected to said actuating means, circuit means responsive to a signal which varies as a function of the bank of said aircraft, said circuit means further comprising, an input transformer having, two secondary windings, chopper circuits connected to each winding for providing



a unidirectional signal which varies as a function of the input to said transformer, the outputs from said chopper circuits being coupled to the output circuit of said control means.

2,531,189
ARTIST'S SKETCH BOX
David M. Abel, New York, N. Y., assignor to Dave Blau
Application September 15, 1947, Serial No. 774,154
3 Claims. (Cl. 312—173)



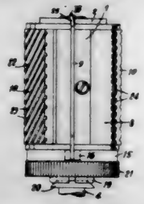
3. Sketch box construction comprising: a main body element; a cover element; a palette element; said body element having a front and a rear wall and a divider member of less height than said front wall; said cover element having a front wall and a rear wall and a pair of palette latching elements between them, the latter extending below the lower edge of the front wall and adapted in the closed position of said box to project downwardly behind the front wall of the body element; said latching elements holding the palette element upon said divider; said latching elements having means thereon for detachably retaining a painting panel, said means being enterable from the front edges of the latching elements, said front edges being positioned rearwardly of the front wall of the body element in the closed position of said box whereby the painting panel is retained within the box.

2,531,190
EMULSIFIER CONSISTING OF ALKYLOLAMINE - FATTY ACID CONDENSATION PRODUCTS AND ESTERS OF POLYGLYCOLS
Oscar J. Ackelsberg, Caldwell, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 12, 1946, Serial No. 709,100
7 Claims. (Cl. 252—357)

1. Emulsifying compositions consisting essentially of 75% to 99% of the mono-ester of a

polyalkylene glycol having a molecular weight of 200 to 4000 with a fatty acid having from 6 to 20 carbons atoms, mixed with 1 to 25% of the reaction product of a dialkylolamine having 2 to 10 carbon atoms in the alkyl group, and a fatty acid having 6 to 20 carbon atoms, said latter product consisting essentially of amides and esters of fatty acids having 6 to 20 carbon atoms and unesterified fatty acid to the extent of 5% to 12.3%, in the molar ratio of 1–2 of alkylolamine to 1 of acid.

2,531,191
DRY SHAVING APPARATUS
Guillaume Barsch, Geneva, Switzerland
Application March 18, 1948, Serial No. 15,673
In Switzerland June 17, 1947
8 Claims. (Cl. 30—34)



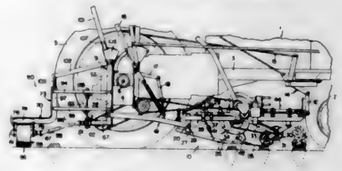
1. In a dry shaving apparatus including a cylindrical sheath, a body rotating inside the sheath, and at least one cutting and one abrading member mounted on the body, the sheath having openings therein before which the cutting and abrading members pass alternately, the improvement which consists in the body comprising a central portion having a drive shaft extending axially therefrom, and a pair of end cheeks rigidly connected to the central portion, one cheek having holes and the other radial slots therein, the cutting and abrading members having lugs at both ends for engaging respectively in the holes of one cheek and the slots of the other, and a holding member rotatably mounted on the slotted cheek and having an aperture therein registering in turn with each of the slots thereby to permit disengagement of each lug from the enveloping slot as the aperture of the holding member is presented to each slot in turn.

2,531,192
ELEVATING PARTICLE-FORM SOLIDS WITH BUCKET CONVEYER
Eric V. Bergstrom, Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application May 14, 1946, Serial No. 669,519
12 Claims. (Cl. 196—52)

12. In a method for transfer of particle-form contact material from two streams of similar material, one stream existing at an elevated temperature substantially above atmospheric temperature and the other stream existing at a temperature also substantially above atmospheric temperature but substantially below that of the first stream wherein the contact material is transferred from one level to a higher level in a confined conveying zone by an endless series of buckets moved and supported through a closed path forming a loop near the upper end of said conveying zone and a second loop near the lower end thereof by endless chains attached to the two opposite ends of the buckets, each of said buckets being divided into three side by side compartments, one central compartment and end compartments on either side thereof adjacent the two ends of each bucket which are attached to the chains, the improvement comprising: flowing the higher temperature particle-form contact material from said higher temperature stream into the central compartments of said buckets near the lower end of said conveying zone, flowing the lower temperature particle-form contact material from said substantially lower temperature stream into the two end compartments of

said buckets where it is in indirect heat transfer relationship with said chains, conveying said higher and lower temperature contact material upwardly within said conveying zone, and causing the contact material to discharge from said buckets at a location near the upper end of said conveying zone while baffling the flow thereof so that said higher temperature and lower temperature contact material pass separately from said conveying zone.

2,531,193
BEET HARVESTER
Thomas W. Bohmker, Geneseo, Claude W. Walz, Rock Island, and James H. Clark, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 10, 1947, Serial No. 740,510
5 Claims. (Cl. 56—121.43)



4. A beet harvester adapted to be mounted on a tractor having a rear axle and a generally rearwardly extending power takeoff shaft, the combination of a support comprising a generally U-shaped member having upwardly extending sections adapted to be connected to the rear axle of a tractor generally on opposite sides of the center line thereof and a lower section connecting said upwardly extending sections, an auxiliary frame, means including pairs of generally parallel links connecting said auxiliary frame with the side sections of said U-shaped support, a beet crown scouring tool carried by said auxiliary frame and including a rotary member having a plurality of beet crown engaging parts and mounted for rotation on said auxiliary frame for movement about a generally longitudinal axis disposed to one side of the center line of the tractor, shaft means carried by the lower central section of said U-shaped support, means for driving said shaft means from the power takeoff shaft of the tractor and articulated drive means extending from said shaft means to said rotary tool for driving the latter from said shaft means and the power takeoff shaft.

2,531,194
ROTATABLE VANE TYPE ATTENUATOR WITH PLUG IN OR OUT ELEMENTS
Arnold E. Bowen, Fair Haven, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 11, 1946, Serial No. 715,588
5 Claims. (Cl. 178—44)

2. A wave guide attenuator comprising a section of wave guide having a longitudinal axis, means connected thereto for linearly polarizing a wave perpendicularly to the guide's axis, a series of spaced longitudinal attenuating vanes having a rectangular body portion of resistive material disposed along said longitudinal axis in said guide, each of said vanes providing a discrete amount of attenuation, related to each other as the successive terms of a progression series, and selective means for rotating any of said vanes in one jump through 90 degrees, whereby said rotated vane is parallel to the electric field vector of said polarized wave and provides its maximum attenuation and a stop for holding each vane in its parallel relation.

2,531,195
ELECTRON DISCHARGE DEVICE EMPLOYING CAVITY RESONATOR
Leonard Francis Broadway, Ickenham, England, assignor to Electric and Musical Industries, Ltd. of England
Application September 21, 1945, Serial No. 617,255
In Great Britain November 27, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 27, 1962
8 Claims. (Cl. 315—5)

1. A cavity resonator having a predetermined fundamental frequency, including an enclosed hollow body formed with apertures in the opposite walls and a gap adjacent said apertures, the distance between the inner walls of said body adjacent said apertures being substantially less than the distance between said walls at portions remote from said apertures, the distance between the walls being increased abruptly at a point intermediate said apertures and the most remote portions of the resonator in the vicinity of a voltage node when excited at an odd harmonic of higher order than said fundamental frequency.

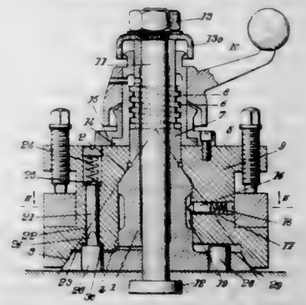
2,531,196
VINYL POLYMERS AND PROCESS FOR PRODUCING THE SAME
Merlin M. Brubaker, Boothwyn, and Ralph A. Jacobson, Landenburg, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 20, 1942, Serial No. 462,752
9 Claims. (Cl. 260—85.5)

8. The process which comprises polymerizing the polymerizable components of an aqueous emulsion of isobutylene and a vinyl ester selected from the class consisting of acrylonitrile and vinyl acetate, the aqueous medium of which contains a dissolved salt of perdisulfuric acid selected from the group consisting of ammonium and alkali metal salts and a dispersing agent selected from the group consisting of an alkali metal salt of a long chain alkyl sulfate and sulfonate, the alkyl group of which contains from 12 to 18 carbon atoms.

2,531,197
ASYMMETRICAL DICHLOROETHYLENE/ISOBUTYLENE INTERPOLYMERS
Merlin Martin Brubaker, Chadds Ford, and Ralph Albert Jacobson, Landenberg, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1946, Serial No. 658,232
3 Claims. (Cl. 260—87.7)

1. An interpolymer consisting of interpolymerized asymmetrical dichlorethylene and isobutylene containing 5 to 30% of the latter by weight.

2,531,198
DEVICE FOR IMMOBILIZING A PIECE WITH RESPECT TO ANOTHER ONE IN AT LEAST ONE PREDETERMINED POSITION
Henri René Bruet, Neuilly-sur-Seine, and Theodore Lafitte, Paris, France
Application December 9, 1947, Serial No. 790,672
In France December 11, 1946
2 Claims. (Cl. 29—49)



1. Apparatus comprising two elements rotatable with respect to each other about an axis and slidable with respect to each other in the direction of that axis, in combination with locking means constituting the sole means for immobilizing rotation of said elements with respect to each other, said locking means comprising a recess in one element adjacent the other of said elements forming a wall parallel to said axis, a bore entering said recess and spaced from but parallel to said wall, an abutment on said other element projecting therefrom toward said one element for entering the recess in said other element dur-

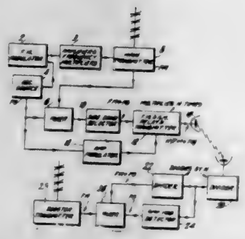
ing said slidable movement, said abutment having at its outer end a chamfered plane face, a finger slidably mounted in the bore of said one element, and resilient means urging one end of said finger into the recess in said one element, said finger having a chamfered plane face at the end thereof which projects into the recess of said one element, whereby the chamfered face of said abutment is engaged by the chamfered face of said finger as said elements are slidably brought together to wedge said abutment between said finger and the said wall of said recess in said one element to immobilize relative rotation of said elements in either direction.

2,531,199

RELAY SATELLITE BROADCAST SYSTEM

Woodrow Darling, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 25, 1947, Serial No. 737,031
4 Claims. (Cl. 250—6)



3. In a satellite broadcast system, a main transmitter, a secondary transmitter at a distance therefrom operating at the frequency at which said main transmitter operates, means for exciting the main transmitter comprising a single substantially constant frequency source of carrier energy modulated in accordance with signals with frequency multiplying means coupling said source to said main transmitter, means for transmitting to said secondary transmitter oscillatory energy representing said carrier and multiplied modulated carrier, a mixer excited by said oscillatory energy and by oscillatory energy of the carrier frequency, and means for using a sideband frequency at the output of said mixer for exciting said secondary transmitter.

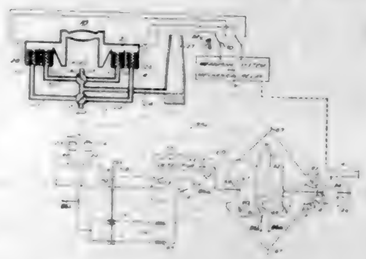
2,531,200

AUTOMATIC CONTROL SYSTEM USING NON-LINEAR RESPONSIVE ELEMENTS

Elwood T. Davis, Brookline, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 10, 1944, Serial No. 558,098
12 Claims. (Cl. 236—15)

1. In combination, a condition-responsive means whose output varies non-linearly with respect to changes in the magnitude of a condition, a balanceable network including a variable impedance, circuit connections across said impedance for deriving from said network an output voltage determined jointly by the magnitude of said variable impedance and by a current whose magnitude is controlled by said impedance, a second network traversed by a constant current and including a variable impedance, and means for concurrently balancing the output of one network against the output of said condition-responsive means and for varying the impedance



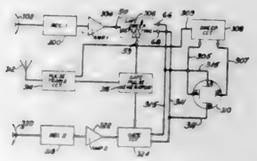
in the other of said networks whereby the output of said other network varies linearly with respect to changes in the magnitude of said condition.

2,531,201

ELECTRONIC CONTROL CIRCUITS FOR RADAR SYSTEMS

Owen E. De Lange, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 28, 1946, Serial No. 679,998
2 Claims. (Cl. 343—5)



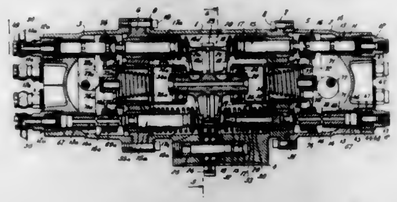
1. In an object detecting and ranging system means for emitting energy pulses to cover an area to be explored, a first and a second means for receiving and detecting reflections of said emitted pulses from objects within portions of said area, a gate pulse generator, a first and a second electronic gate circuit means positioned electrically in the video frequency output circuits connecting with said first and said second receiving means, respectively, and responsive to the pulses of said gate pulse generator to alternately open said two gate circuits, a sweep positioning electronic circuit means having a control electrode circuit responsive to a direct current voltage normally developed in the anode circuit of said first electronic gate circuit when the latter is open to develop a first pair of initial positioning voltages, a cathode-ray oscilloscope indicator having two pairs of orthogonally arranged deflecting means, one of said pairs of deflecting means connecting to said positioning circuit and the output circuits of both gate circuits and means operative upon the closing of said first gate circuit to alter the direct current voltage effective on the control electrode of said beam positioning electronic circuit means whereby said last stated means develops a second pair of initial positioning voltages, the trace position of the ray of said cathode-ray oscilloscope is shifted when said first gate circuit means is closed and reflections received by said first and said second receiving means will be displayed on traces laterally displaced in juxtaposition with respect to each other.

2,531,202

FUEL INJECTION PUMP

Desire J. Deschamps, Rutherford, N. J., assignor to Deschamps Fuel Injection Corporation, Rutherford, N. J., a corporation of New York

Application May 4, 1945, Serial No. 591,914
2 Claims. (Cl. 103—173)



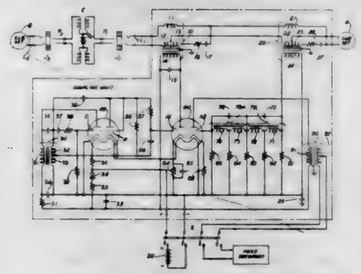
1. In a fuel injection pump, an elongated cylindrical housing having an aperture in one side thereof, a rotary drive shaft supported substantially centrally and coaxially thereof, an actuating element disposed on said shaft comprising a spur gear structure of less diameter than said housing and having on its opposite sides two opposed actuating faces permanently fixed at equal and opposite angles to the axis of said shaft, a plurality of cylinder and plunger pumping units having their axes parallel with said drive shaft and each having a spring to actuate the plunger on the intake stroke, said units being disposed in pairs, the units of each pair being located on opposite sides of said actuating element and beyond the ends of said drive shaft, their plungers being held in operative engagement respectively with said opposed actuating faces by said springs, and driving means extending through said aperture and disposed in operative engagement with said gear.

2,531,203

TELEPHONE SUBSTATION COUPLER FOR CONVERSATION RECORDING

Robert R. Galbreath, Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 9, 1947, Serial No. 790,663
11 Claims. (Cl. 179—6)



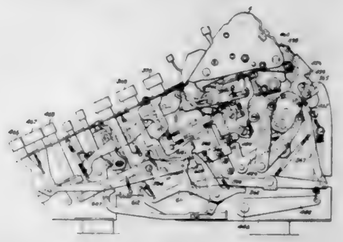
1. In combination, a subscriber's telephone line, a subscriber telephone set comprising a transmitter and a receiver connected to said line, a voice recorder, electronic means operative to generate an intermittent tone of desired frequency, and means comprising two hybrid coils coupling said line, telephone set, recorder and tone source, windings of both of said coils being connected in series with said line and telephone set, another winding of one of said coils being connected to said electronic means, and another winding of the other of said coils being connected to said voice recorder, whereby voice currents are transmitted from said line and subset through one of said coils to said voice recorder and said intermittent tone is transmitted through the other hybrid coil to said line and through both of said hybrid coils to said recorder.

2,531,204

CARRIAGE TABULATING MEANS

Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application February 16, 1948, Serial No. 8,544
16 Claims. (Cl. 235—63)



1. In a calculating machine, the combination of a denominationally shiftable carriage, having deflector elements, carriage shifting means, settable denominational tabulator keys on the carriage having deflector elements, right and left carriage shift keys, means for initiating a carriage shift in one or alternatively the opposite direction upon depression of the related shift key, for effecting operation of the carriage shift means and for terminating the shift upon release of the key comprising a rock shaft, a spring-retracted link having connection with the shift keys, a spring-retracted latch fast upon said rock shaft and having latching engagement with said link to rock said shaft upon depression of a shift key to initiate the shift and to restore said latch and said shaft upon release of the key to terminate the shift, said link having a normally ineffective member settable to position to cooperate with the deflector elements of the tabulator keys upon depression of a carriage shift key to move said link against the tension of its spring to release the latching engagement of said link with said latch and restore said rock shaft to terminate the shift at the position indicated by a set tabulator key and similarly settable to cooperate with the deflector elements of the carriage to terminate the shift at either extreme position thereof.

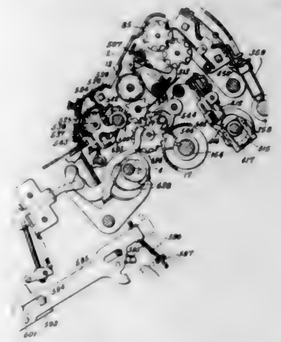
2. In a calculating machine having a denominationally shiftable register carriage, reversible motor driven carriage shifting means, right and left carriage shift keys, and means controlled by said keys for initiating and maintaining operation of said carriage shift means in one or alternatively the opposite direction; in combination with means for operatively engaging one or alternatively the other of said shift keys comprising a member adjustable in one or the opposite direction, spring-powered means for adjusting said member comprising means selectively settable to condition said spring to adjust said member in one or in the opposite direction, an operation control key, and means controlled by said operation key and in train with the motor for operating said member to depress the shift key selected by the previous setting of said settable means and to hold the key depressed.

2,531,205
CONSTANT FACTOR MEANS
Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application February 16, 1948, Serial No. 8,545
11 Claims. (Cl. 235—79)

1. In a calculating machine, the combination of a denominationally shiftable rockable carriage, multiplier storage devices and a product register thereon, said storage devices each comprising a spring-connected gear couple, transmission gears on the fixed frame meshing with gears of said register, and means for returning multiplier values to said storage devices for use as a constant factor in a multiplication program and for simultaneously clearing said register comprising power means for rocking said carriage and effecting the operation of said clearing means and the disengagement of the register gears from the fixed frame gears, said power means having a normally ineffective clutch interposed in the drive, means comprising a key for engaging said clutch and for rendering said clearing means operative, a detent comb for engaging one gear of each couple to retain multiplier values entered therein, means for successively counting back to zero and building up tension in said spring connections against the other gears of the couples during a multiplication calculation, detent pawls engaging the other gears of the couples to hold them against said spring tension, and means for releasing said pawls from said other gears upon the rocking of the carriage, said built up spring tension thereupon acting to effect the return of the multiplier values to the storage devices.

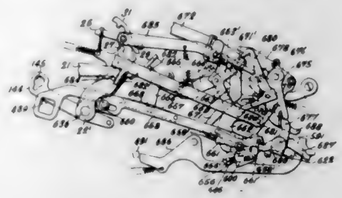
2,531,206
MULTIPLIER ENTERING MEANS
Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application February 16, 1948, Serial No. 8,547
12 Claims. (Cl. 235—63)

1. In a calculating machine having a fixed frame, a main carriage mounted on and transversely shiftable relative to said frame, a product dividend register on said carriage, differential actuators on said frame, and intermediate gears between said actuators and the product dividend register; a subcarriage mounted upon and longitudinally shiftable relative to the main carriage, multiplier storage wheels on said subcarriage and provided with gears, spring means normally holding said subcarriage in position with the multiplier storage gears out of mesh with the intermediate actuator gears, and a contact member mounted on the fixed frame and operable in



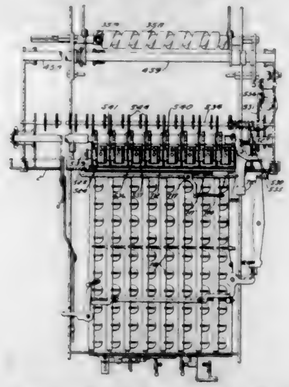
one extreme shifted position of the main carriage to hold the subcarriage displaced, against the tension of its spring, with the multiplier storage gears in mesh with the intermediate actuator gears.

2,531,207
REGISTRATION AND SHIFT CONTROL MEANS
Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application February 16, 1948, Serial No. 8,548
18 Claims. (Cl. 235—62)



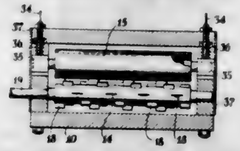
1. In a calculating machine having a register, rotary differential actuators therefor, cyclic reversible drive means for said machine including a lever settable diversely to effect forward or alternative reverse rotation of said actuators by said drive means; and drive interrupting means operable to restore said lever; means for setting said lever including a toggle linkage, a tripping element operable in time with the interrupting means to break the toggle linkage, spring means thereupon operable to collapse said toggle linkage, two diverging links having a common pivotal connection with and movable relative to said toggle linkage, two slides oppositely movable by and each connected with one of said diverging links, each slide having at one end operating connection with the diversely settable lever and at the other end a lug, an adjustable control plate having oppositely extending blocking wings, a member operable to adjust said control plate to bring one or alternatively the other blocking wing thereof into the path of movement of the lug of the related slide, and a member operable by the drive means to restore said toggle linkage.

2,531,208
PRODUCT TRANSFER MEANS
Herman Gang, Livingston, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Continuation of application Serial No. 8,546, February 16, 1948. This application November 2, 1948, Serial No. 57,943
8 Claims. (Cl. 235—63)



1. In a calculating machine having a fixed frame, a main carriage mounted on and transversely shiftable relative to said frame, a product register on said carriage and including a denominational series of numeral wheel gears, and a counting finger on said frame; a sub-carriage mounted upon and longitudinally shiftable relative to the main carriage, a denominational series of multiplier storage gears on said sub-carriage, an abutment on the main carriage limiting movement of the sub-carriage in one direction and serving to locate said sub-carriage normally in position with the multiplier storage gears out of mesh with the product gears and with one or another of said storage gears in the plane of movement of the counting finger, a device engageable by the sub-carriage upon shifting movement thereof and serving to locate said sub-carriage in a selected position wherein the storage gears will be in mesh with product gears of selected denominational orders, and means operable to rotate the product wheels to zero registering position and thereby transfer registered values to the shifted multiplier gears.

2,531,209
DEHAIRING MACHINE
William Gilbert, Richmond Hill, N. Y.
Application November 30, 1946, Serial No. 713,229
3 Claims. (Cl. 69—26)

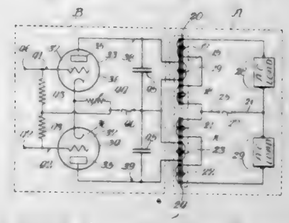


1. A dehairing machine for fur bearing skins comprising a box having two contacting plucking rollers, one of which has a resilient gripping surface and one of which has a series of spaced gripping jaws having gripping surfaces parallel with the axes of the rollers, a guard plate beneath said rollers with a narrow slot beneath the contacting surfaces of the rollers, means for driving one of said rollers, means for adjusting one roller toward the other, a rotatable supporting guide rod, for the skin being operated upon, movable toward and away from the slot in the guard plate, foot actuated means for moving said guide rod, the slot in said plate being so narrow that the skin cannot be pushed into contact with the contacting rollers.

2,531,210
FOOD FREEZING APPARATUS
Joseph L. Gilson, Hartsdale, N. Y.
Application July 8, 1948, Serial No. 37,589
14 Claims. (Cl. 62—114)

1. In a freezer, a frame, a row of freezer plates arranged in face to face spaced parallel relation and pivoted on said frame along corresponding edges of said freezer plates to swing about spaced parallel axes arranged in a plane extending along said row whereby any pair of the freezer plates can be swung apart and swung together into said spaced parallel relation and with the articles to be frozen interposed therebetween, a tension spring secured at one end to the free end of each of said freezer plates and at its opposite end to said frame at a point on the opposite side of the pivot axis thereof and in the operative position of said plate being generally in line with said pivot axis, and conduits arranged to supply a refrigerating medium to said freezer plates to maintain them at a freezing temperature.

2,531,211
ELECTRICAL CONTROL CIRCUIT
Paul Glass, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application October 12, 1945, Serial No. 622,057
2 Claims. (Cl. 171—119)



1. An electrical control circuit comprising a direct current signal input circuit comprising a pair of grid controlled electron tubes each hav-

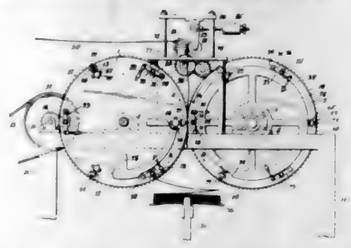
ing a plate, a cathode and a grid, a plate circuit for each of said tubes including output terminals and a condenser in parallel with the output terminal, said plate circuits being adapted for the connection therein of an alternating current voltage source common to said plate circuits and having therein a variable resistance intermediate the voltage source and the cathodes, and a grid circuit for each of said tubes including a resistance and said variable resistance, and a saturable reactor circuit comprising a pair of saturable reactors each having an alternating current coil and a control coil, said control coils being electrically associated one with each of said plate circuits to receive the output of the associated tube and an alternating current supply circuit having two sets of output terminals and being adapted for connection to a single alternating current power source, one terminal of eacn of said sets of output terminals being adapted for connection by a common lead to the power source, the remaining terminal of one of said sets of output terminals being connected only to the alternating current coil of one of said saturable reactors, and the remaining terminal of the other of said sets of output terminals being connected only to the alternating current coil of the other of said saturable reactors.

2,531,212
MUSICAL COMB
Fred Gretsch, Jr., Forest Hills, N. Y., assignor to The Fred. Gretsch Manufacturing Company, Brooklyn, N. Y., a corporation of New York
Application November 24, 1945, Serial No. 630,620
1 Claim. (Cl. 132—11)

A hair comb comprising an elongated base member carrying a plurality of teeth, said base member having an elongated opening therein formed longitudinally along the base and transverse to the teeth, said opening extending completely through the base member from one side to the other side thereof, a paper retaining member pivotally mounted upon said base member and adapted for disposition within said opening so as to be flush with the sides of said base member, a pin in said base member extending transversely through said elongated opening for pivotally carrying said retaining member, said retaining member being of such size that when the retaining member is moved in a plane perpendicular to the plane of the base member and into said base opening it will retain a sheet of paper passed through said opening and positioned between said retaining member and an edge of said opening.

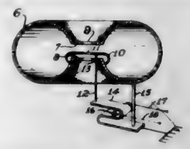
2,531,213
PAPER FOLDING MACHINE AND METHOD
Leslie T. Hand, Brooklyn, N. Y., assignor to Morsegraph Inc., New York, N. Y., a corporation of New York
Application March 16, 1946, Serial No. 654,879
11 Claims. (Cl. 270—73)

1. The method of producing a stack of folded continuous and uninterrupted paper from a web of paper which comprises supporting a substantially vertical run of web above a generally horizontal supporting surface, providing slack in said vertical run, removing slack by forming a transverse fold in one direction, gripping the margins of the fold, forming a second transverse fold in a direction opposite the first fold at a spaced interval from the first fold, gripping the margins of said second fold, releasing the grip on said first formed fold at one side of said vertical run in close proximity to said supporting surface while the second fold remains gripped, thereafter releasing the grip on said second formed fold at the opposite side of the vertical run and in close proximity to said supporting surface, and continuously repeating said folding gripping and releasing operations in said sequence.



7. A device adapted for use with a rotatable cylinder of a paper folding machine, comprising elongated support means for mounting in normally fixed position radially of said cylinder, said support means having a transversely extending recess, a folder blade member supported by said support means, a retainer member movable along said recess, one of said members having an opening therein and the other having a projection extending into said opening and fitting snugly against walls of the opening, an adjusting screw connected with said retainer member and threadedly engaged with a portion of the support means for selectively moving said retainer member along said recess and thereby varying the radial position of said blade member independently of the support means, and a clamp screw in engagement with said support means for clamping said blade member in an adjusted position.

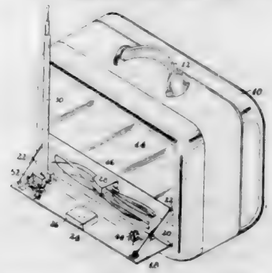
2,531,214
ELECTRICAL RESONATOR
Norman Leslie Harris, Hatch End, and John Walter Ryde, Northwood, England, assignors to M. O. Valve Company Limited, a corporation of Great Britain
Application January 4, 1947, Serial No. 720,286
In Great Britain April 22, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires April 22, 1960
11 Claims. (Cl. 178—44)



9. A high frequency electric resonator comprising a conducting body enclosing a cavity having dimensions determining a normal resonant frequency, said dimensions and resonant frequency being subject to changes due to ambient temperature variations, and means for automatically compensating for said changes to maintain the desired resonant frequency comprising at least one deformable flexible element forming a portion of the wall of said body and adapted upon

frequency and means responsive to ambient temdeforming to alter said dimensions and resonant perature variations for flexing said flexible wall element in opposition to said changes.

2,531,215
PORTABLE RADIO EQUIPMENT
Walter S. Harmon, Los Angeles, Calif., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application April 4, 1946, Serial No. 659,470
4 Claims. (Cl. 250—14)



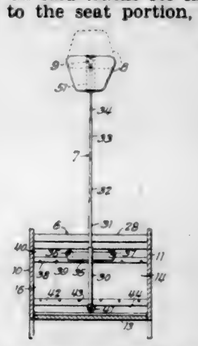
1. In portable radio equipment, a case, an aperture in said case, a metallic closure panel hingedly mounted on said case along an edge of said aperture, a rod-like antenna pivotally mounted on the inner side of said closure panel at a point spaced from the hinge axis thereof, and arranged to pivot about an axis substantially perpendicular to the hinge axis of said panel, a spring clip on said closure panel spaced from the pivot axis of said antenna for releasably retaining said antenna in a position parallel to said panel, and means insulating said antenna and said clip from said panel.

2,531,216
ADJUSTING OR CONTROLLING DEVICE
Burton L. Haver, Kingston, N. Y.
Application August 2, 1948, Serial No. 41,912
6 Claims. (Cl. 74—502)

1. In a brake controlling device, means for supporting a longitudinally movable adjusting means, a laterally flexible longitudinally movable adjusting means supported by said supporting means including a helical spring forming an exterior surface portion, and means selectively engageable with said helical spring at locations lengthwise thereof.

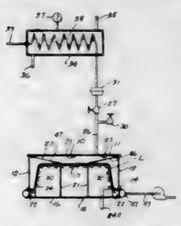
2,531,217
VANITY BENCH AND MIRROR
Karl R. Johnson, Rockford, Ill.
Application March 29, 1946, Serial No. 658,101
15 Claims. (Cl. 155—188)

7. In combination, a bench having a seat portion and a cabinet portion therebeneath which includes a mirror storage compartment open at the top thereof behind said seat, a mirror support in said compartment comprising telescoping sections which are vertically extensible and retractable, upper and lower substantially horizontal tracks in said compartment extending lengthwise of the bench and behind said seat portion, rollers in a T-arrangement mounted on said support and operating on said tracks for lateral adjustment relative to the seat portion, said support



having at least one roller on its lower end running on the lower track and having at least one roller spaced laterally from each side of said support at its upper end running on the upper track, and a mirror on said support.

2,531,218
FLUID PRESSURE MOLDING
Theodore L. Johnson, Kirkwood, Mo.
Application May 31, 1946, Serial No. 673,436
1 Claim. (Cl. 18—55)

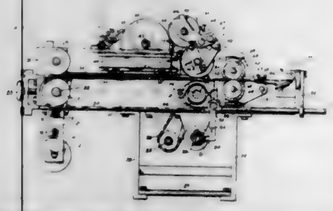


The hereindescribed method of curing a plastic article containing at least a substantial proportion of a synthetic resin, which consists in substantially shaping the article prior to cure and disposing the thus-shaped unit in a two-part molding flask, subjecting one side of the article prior to cure, to a vacuum treatment for removal of occluded and adhering fluid, subjecting the opposite side of the unit to a flow of fluid whereby to cause a wiping action of the fluid upon the article, keeping the flask open during the vacuum and fluid treatments, forming a surficial film on at least a portion of the surface of the article to be cured, and in such location that the film is exposed in the mold cavity, sealing the flask, and applying to the mold cavity a fluid at a predetermined temperature and pressure to effect the cure of the article.

2,531,219
WALLPAPER PASTING AND TRIMMING MACHINE
Joseph B. Johnston, Denver, Colo.
Application December 31, 1947, Serial No. 795,018
7 Claims. (Cl. 91—14)

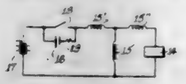
7. A machine for cutting, trimming, and pasting wall paper strips, comprising: an elongated, horizontal frame; a pair of parallel, horizontal conveyor rollers supported in spaced relation in said frame; an endless conveyor belt mounted to

travel with said rollers; means for supporting a roll of wall paper below one extremity of said conveyor belt so that the paper may extend upwardly over and along the belt; means holding said paper in contact with said belt so that it will travel therewith; means for applying paste to the upper surface of said paper as it travels with said belt; a transversally extending cutting knife extending across said paper for severing the paper into strips; a spring urging said cutting knife downwardly toward said paper; a lever supporting



said knife over said paper; a cam; a stop arm extending from said lever and bearing against said cam to support said lever and said knife; a notch in said cam into which said arm may enter to allow said knife to fall and cut said paper; a measuring shaft driven from said conveyor rolls; a clutch for connecting said cam to said measuring shaft at any desired radial position so that said notch will reach said arm to release the latter after any preselected circumferential rotation; and means for releasing said clutch when said arm enters said notch.

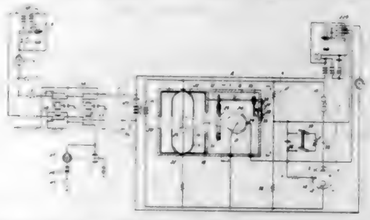
2,531,220
FLASH LAMP
Jack Kaplan, Brooklyn, N. Y.
Application October 17, 1947, Serial No. 780,382
2 Claims. (Cl. 315—219)



1. A flash type illuminating device comprising a source of direct current, a switch and an ionizable flash lamp forming a circuit with the said source of current, an inductor across the said flash lamp and adapted to be energised from the source upon closure of the switch, the said flash lamp being adapted to be energized by the discharge from the inductor upon opening of the said switch, and another inductor in series with the said flash lamp adapted to modify the rate of energization of the lamp by the first mentioned inductor.

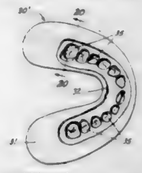
2,531,221
DELAYED AUDIBLE CALL SIGNAL FOR TELEPHONE SUBSTATIONS
Stanley B. Kent, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 27, 1947, Serial No. 770,795
6 Claims. (Cl. 179—84)

1. The combination in a telephone system of a line, a station on said line, a source of signaling current, means connecting said source to said line, a lamp at said station energized by current from said source, a ringer at said station, a time measuring condenser at said station, a charging circuit for said condenser including light sensitive means adapted to be illuminated by light from said lamp, means at said station for regulating the illumination of said light sensitive means by the light from said source to variably



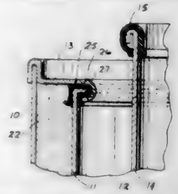
control the charging time of said condenser, and means responsive to the charge accumulated on said condenser at the end of a predetermined interval of time for rendering said ringer responsive to current from said source.

2,531,222
TOOTH POSITIONING APPLIANCE
Harold D. Kesling, La Porte, Ind.
Application November 25, 1946, Serial No. 712,212
8 Claims. (Cl. 32—14)



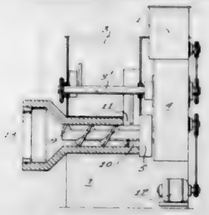
1. A tooth positioning appliance comprising a body of resilient and deformable material, said body being of a form to fit within the mouth of a patient and including impressions of the upper and lower teeth of a patient located in preselected positions adapted to engage the respective upper and lower teeth of the patient and to urge out-of-position teeth into the preselected positions.

2,531,223
ICE TYPE WATER COOLER WITH GASKET INSULATED TOP
Frank G. Kovacs, Caldwell, and Frederic Arnault Seidler, South Orange, N. J.
Application January 22, 1949, Serial No. 72,127
1 Claim. (Cl. 220—15)



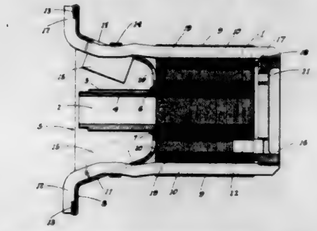
In an ice type water cooler, an exterior metal shell having a vertical top edge portion, a metal receptacle for ice mounted in said shell and having an inturned top flange positioned below said top edge portion of said shell, a gasket mounted upon the top portion of said receptacle and engaging around said inturned top flange, a sheet metal top wall having an outer edge portion clamped upon said vertical top edge portion of said shell, and said top wall having an inner edge portion resting on and clamped around said gasket with its edge located beneath said inturned top flange.

2,531,224
AUTOMATIC MACHINE FOR MACARONI
Sandro Lenner, Milan, Italy
Application December 19, 1946, Serial No. 717,301
In Italy May 9, 1946
2 Claims. (Cl. 107—14)



1. A machine for working pasty material comprising a screw press the casing of which is provided with an upper feeding port and a mixing trough containing a shaft rotatably mounted therein and bearing radial paddle blades, said trough being superposed to said casing and provided with an outlet aperture coinciding with said feeding port, in correspondence to said aperture said trough being of enlarged cross section and said paddle blades being tangent in their rotation to the screw of said screw press.

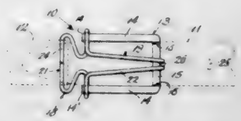
2,531,225
ROTOR ASSEMBLY
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application June 15, 1948, Serial No. 33,119
7 Claims. (Cl. 172—120)



1. A rotor assembly comprising a rotor including circumferentially spaced conductor bars extending lengthwise to and beyond one end of the rotor, a resistance end bell mounted at its closed end adjacent said one end of the rotor co-axially therewith, the end bell having a plurality of circumferentially spaced slots therein, the conductor bars projecting through corresponding slots and electrically connected to said end bell, and fan blades on the end bell in circumferentially spaced relation; the fan blades being adjacent and corresponding to the slots, in which said fan blades connect to the end bell along one longitudinal edge of the corresponding slot and in which said fan blades are integral with the end bell and comprise portions thereof cut on all edges but one and bent out to form said slots.

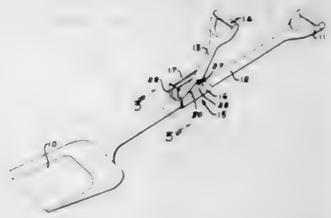
2,531,226
BUCKLE
Matthew Licursi, Norwalk, Conn.
Application April 1, 1949, Serial No. 84,803
8 Claims. (Cl. 24—180)

1. A belt buckle comprising a frame member adapted to underlie the apertured end of a belt and having belt guides to engage the sides of the belt to maintain the belt in position thereon; a tongue member pivotally mounted intermediate its ends on the back end of the frame and having a tongue portion to overlie the belt supported on the frame and having a transversely extending loop forming a belt-receiving passage at the rear end of the tongue portion and in line with the belt guides to receive the belt supported on the frame with a portion of said loop forming the pivot for mounting the tongue member on the frame and having a second belt-securing loop at the rear end



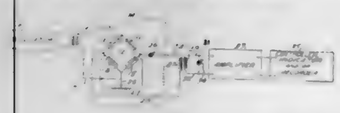
of the tongue member to which the other end of the belt is secured, said loop being positioned on the side of the pivotal mounting opposite the tongue portion and at an angle to the plane of the tongue portion, the tongue moving about the pivotal mounting in the direction of the belt upon a longitudinal pull on the secured end in a direction away from the buckle; and a belt-engaging tooth carried by one of the members and adapted to pass through an aperture in the belt and hold the belt when the tongue portion and frame engage the apertured end of the belt.

2,531,227
SHOVEL WITH AUXILIARY HANDLE
Ross G. Lubins, St. Paul, Minn.
Application February 4, 1948, Serial No. 6,244
3 Claims. (Cl. 294—58)



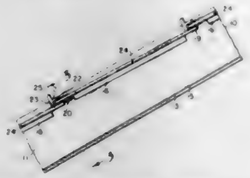
1. A shovel with auxiliary handle comprising a blade, a main grip, a main shank between and rigidly connected to said blade and main grip, said blade, main shank and main grip being substantially in alinement and a working edge of said blade being opposite said main shank, an auxiliary grip, an auxiliary shank rigidly connected to said auxiliary grip, a first element including a first part-cylindrical portion and spaced apart supporting straps at a side of, parallel to and rigid with said first part-cylindrical portion, a second element including a second part-cylindrical portion and a supporting strap at a side of, parallel to and rigid with said second part-cylindrical portion, means securing the supporting strap of said second element to a supporting strap of said first element with the first and second part-cylindrical portions in facing, substantially concentric relation, and means for fastening an end portion of said auxiliary shank opposite said auxiliary grip to and between said supporting straps of said first element.

2,531,228
TORQUE MEASURING SYSTEM
William D. Macgeorge, Drexel Hill, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application May 23, 1945, Serial No. 595,294
2 Claims. (Cl. 73—136)



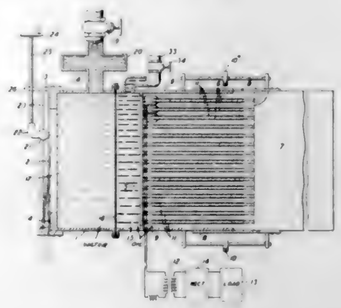
1. In a torque-measuring system of the type in which a strain-responsive resistor is secured to a rotatable member subjected to torque, the combination of a pair of inductively associated input windings, a pair of inductively associated output windings, means for securing one winding of each of said pairs to said member, a measuring network of the Wheatstone bridge type which includes said strain-responsive resistor, means including said input windings for supplying power to said Wheatstone bridge, an output circuit from said bridge connected to the one of said output windings secured to said rotatable member for producing a voltage across the other output winding which varies with change in the resistance of said resistor, said output circuit including capacitors for producing series resonance in that part of the circuit including said movable output winding and for producing parallel resonance across said stationary output winding.

2,531,229
GLAZING BAR
Arnold Marsh, Woodtown Park, Rathfarnham, Eire
Application December 20, 1946, Serial No. 717,493
In England May 12, 1945
6 Claims. (Cl. 108—16)



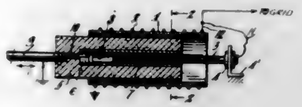
1. A glazing bar adapted to hold glass in slanting position including a bar body, a ledge on the bar adapted to support a light of glass at an angle slightly inclined to the bar body, an abutment for the light on the ledge and carried by the bar and having an overhanging edge adapted to closely overlie the end of the light of glass lying on the ledge, a second ledge spaced from the first ledge inclined at substantially the same angle so as to support a second light of glass with its end surface resting upon the upper surface of the first light, a second abutment carried by the bar having an overhanging edge to hold the second light of glass and adapted to lie substantially against the upper surface of the first light, a third ledge carried by the bar inclined at substantially the same angle to hold a third light of glass under and against the first abutment and against the bottom of the first light of glass, each abutment spaced from the ledge supporting the light of glass which it holds by a distance greater than the length of its overhanging edge.

2,531,230
ELECTRIC POWER SOURCE
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 16, 1946, Serial No. 655,002
4 Claims. (Cl. 290—1)



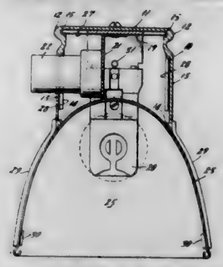
2. A source of oscillatory energy which comprises a closed vessel, a flexible partition dividing said vessel into at least two compartments, a first fluid within one compartment capable of supporting standing waves of a given natural frequency and wavelength determined by the dimensions of the vessel said vessel being so dimensioned as to accord with said given frequency, a supply of a second, and different, fluid, a water hammer type of means for periodically admitting said second fluid to another compartment and discharging said fluid from said second compartment to develop standing waves in said first fluid, a baffle element in said first fluid, and a plurality of hydrostatic pressure-responsive piezo electric elements positioned in said first compartment and coupled to said first fluid through said baffle element.

2,531,231
VARIABLE PERMEABILITY TUNING DEVICE
John W. Million, Jr., Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application December 4, 1945, Serial No. 632,726
10 Claims. (Cl. 250—40)



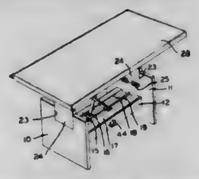
10. A radio frequency tuning device comprising an inductance coil of the solenoid type, a ferro-magnetic core arranged for longitudinal movement axially within said coil for varying the inductance of said coil, said core having an elongated concentric bore with an electrically conducting surface, a metallic rod coaxially disposed within said bore in spaced relation from said surface, said core being longitudinally movable relative to said rod, dielectric means radially spacing said rod and said surface, structure electrically connecting said rod and said surface as electrodes of a variable capacitor in circuit with said coil.

2,531,232
FLUORESCENT LIGHTING FIXTURE
Shirley R. Naysmith, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application January 14, 1947, Serial No. 721,970
2 Claims. (Cl. 240—51.11)



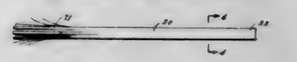
1. A fluorescent lighting fixture of the single lamp type, comprising an extruded-metal inverted wiring channel of nominal lamp length and having a flat upper wall, external, longitudinally-extending outwardly-facing beads along and just below the edges of the upper wall for the reception of supporting clamps, inner, longitudinally-extending inwardly-facing grooves inside and above the external beads, and side walls extending vertically downward from the beads and grooves, the lower edges of the side walls having interiorly disposed stiffening ribs, interiorly disposed fluorescent lamp socket carrying brackets secured to the upper wall of the wiring channel at a short distance from the end of the channel and spaced below the end of the upper wall of the channel at the ends thereof to be out of contact therewith, the brackets extending downwardly in the plane of the end of the channel, reflector supporting studs carried by the upper wall of the channel, a trough shaped sheet metal reflector of the same length as the channel, carried by the studs and held against the stiffening ribs, and an end plate secured to an end bracket and having an upper flange fitting in the grooves, side flanges fitting the inner side walls of the channel and outer flanges fitting about the ends of the reflector below the wiring channel, the flanges serving to align the end plate and reflector end with respect to one another and the channel, a lamp socket secured to each bracket, and a socket carried lamp in the reflector.

2,531,233
VERTICALLY ADJUSTABLE TABLE
John H. Pettit, Bronx, N. Y.
Application April 28, 1948, Serial No. 23,780
1 Claim. (Cl. 311—39)



A table comprising: side supports, members extendable from each of the side supports, a table top connected to said members, said members and the side supports serving to retain the table top in its elevated position, and the side supports serving to retain the table top in its lowered position; a tie member extending between the side supports, and releasable retaining means extending between the tie member and the table top for fixing the table top in its raised position and for preventing the collapse of the extended supporting members; said releasable retaining means including crossed retaining members hingedly connected to the table top, stop projections connected to the tie member to be resiliently extended into the path of lateral movement of the lowered ends of the retaining members to hold the retaining members in their elevated position and adapted to be withdrawn to release the retaining members.

2,531,234
LONGITUDINALLY SEPARABLE EXTRUDED THERMOPLASTIC STRIP AND PROCESS OF PRODUCING SAME
Peter H. Seckel, New York, N. Y., assignor to Richard A. Fisch, New York, N. Y.
Application July 21, 1949, Serial No. 105,937
7 Claims. (Cl. 18—47.5)



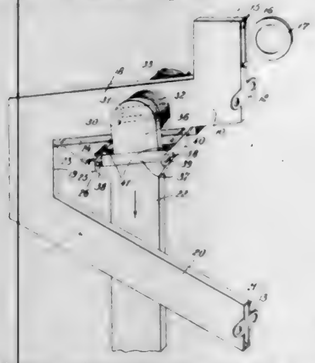
1. A process of producing strip material which has a homogeneous appearance but separates into a plurality of filaments when sharply bent comprising the steps of mixing two non-compatible, fiber forming, linear-polymeric, thermoplastic materials, plasticizing said mix, and forcing the mix containing two separate solid phases through a single orifice die and withdrawing the extruded product from the die without substantially stretching the same whereby a unitary product consisting essentially of two distinct series of parallel threads adhered together is obtained.

2,531,235
FISH LANDING GRIP
Sidney J. Sicotte, Hibbing, Minn.
Application October 27, 1948, Serial No. 56,690
1 Claim. (Cl. 43—43.13)

A device to prevent a fishing line from twisting and providing a grip for use in landing fish comprising: a fishing leader; a substantially triangularly shaped grip and keel member, said member having a longest side and a next longest side which are joined in an acute angle, and a shortest side joining said longest and next longest sides; said member having a perforation within said acute angle adjacent the apex thereof to which said fishing line is attached, and a second perforation adjacent said longest side and positioned centrally of the latter to which said leader

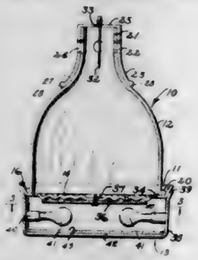
is attached whereby the major area of said member is on the leader side of said second perforation when said member is drawn through the water by said fishing line and will act as a keel to prevent said line from twisting; and said leader being pivotally carried in said second perforation whereby said member may be pivoted so that said longest side will extend at substantially right angles to said leader to serve as a finger grip for landing fish.

2,531,236
TOKEN-ACTUATED MECHANISM
William E. Snell, Vineland, and Howard E. Frantz, Jr., and Frank A. Hignutt, Millville, N. J.; said Frantz, Jr., and said Hignutt assignors to said Snell
Application September 22, 1944, Serial No. 555,254
8 Claims. (Cl. 194—4)



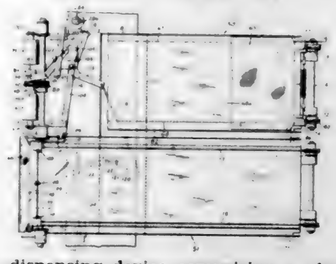
1. A token-actuated mechanism for controlling the operation of a machine, which comprises a passage to be traversed by the token and having a movable wall, means adjacent the passage for activating a token passing through it to cause the token to emit light, a photocell disposed adjacent on opening in a wall of the passage and developing energy as light from the token falls upon it, a source of energy, means for moving the passage wall to discharge the token from the passage, and means actuated by energy from the photocell for connecting the source of energy to the moving means and the machine to cause operation thereof.

2,531,237
DEVICE FOR PROCESSING YOGURT
Alexander Steinberg, New York, N. Y.
Application March 7, 1946, Serial No. 652,835
2 Claims. (Cl. 126—275)



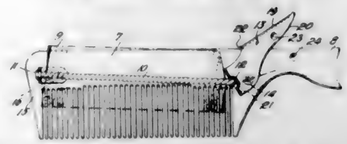
1. In a cooking device, a pan forming a base and having an outwardly flared upper rim and a heat insulating plate on its bottom, a heating device in said pan, a substantially flat tray having an annularly corrugated center portion and an outwardly and upwardly extending peripheral flange, said tray fitting within said pan with their flanges in nested and close fitting relationship, a heat insulating plate on the under face of said tray, said tray having therein an annularly arranged row of apertures intermediate the heat insulating plate thereon and its outwardly and upwardly extending peripheral flange.

2,531,238
MERCHANDISE VENDING MACHINE
William S. Tandler, David S. Walker, and Ferdinand A. de Wiess, New York, and William M. Teller, New Rochelle, N. Y., assignors to Vendomatic Machine Corporation, New York, N. Y., a corporation of Delaware
Application April 17, 1947, Serial No. 742,164
22 Claims. (Cl. 312—97)



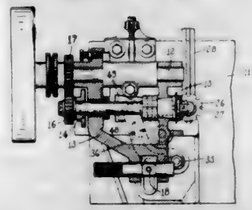
2. A dispensing device comprising a plurality of substantially horizontal supports arranged side by side, each of said supports being adapted to receive a row of articles, a conveyor belt for advancing each row of articles along its support for discharge, one by one, by gravity at one end of each support, driving means, a clutch for each conveyor belt for connecting and disconnecting each of said conveyor belts and said driving means, and mechanism responsive to movement of one conveyor belt to a predetermined position for actuating its clutch to disconnect said one conveyor belt from said driving means and for actuating said clutch of another conveyor belt to connect it to said driving means.

2,531,239
COMB AND BRUSH COMBINATION
Frank L. Twitty, Bronxville, N. Y.
Application March 20, 1950, Serial No. 150,598
5 Claims. (Cl. 132—85)



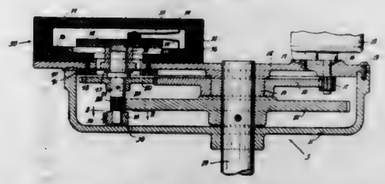
1. The herein disclosed comb and brush combination comprising a comb having back and teeth portions, brackets projecting from opposite sides of said back portion and having sockets offset from said opposite sides, a toggle lever pivoted on said back portion at a distance from said brackets and having sockets opposed to and in line with the sockets in the brackets when said lever is rocked into position past dead center, brushes having cores of a length to be held in opposed sockets of the brackets and lever when the lever is in said past dead center position and to be released from said sockets when the lever is rocked in the opposite direction and means for limiting movement of the lever to said past dead center position, said lever being forked to straddle the back portion and said means for limiting movement of the lever being that portion of the lever straddling the back of the comb.

2,531,240
BURR REMOVER FOR SLOTTING MACHINES AND THE LIKE
Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application October 8, 1945, Serial No. 621,135
12 Claims. (Cl. 10—6)



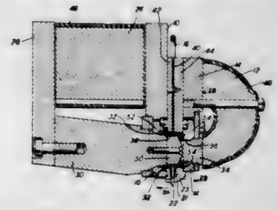
1. A screw slotting machine having a frame, a cutter frame mounted thereon for swinging movement, a slotting cutter on said cutter frame, a dial rotatably mounted on the first-named frame to move the work into position to be acted upon by said cutter, means for advancing the cutter toward the face of the dial, a pair of spaced trimming tools operatively mounted on the frame for movement in a direction substantially transverse to the movement of the cutter frame, and means on the first-named frame for advancing said tools across the face of the dial to embrace the work and simultaneously trim opposite sides thereof.

2,531,241
REMOTE CONTROL DEVICE
Glenn H. Witts, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 31, 1945, Serial No. 596,951
7 Claims. (Cl. 318—15)



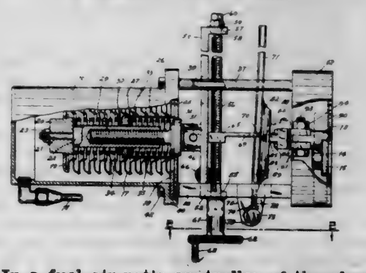
1. In a device of the class described, including, a casing, a driven gear journaled in said casing, a rotatable drive shaft with a pinion mounted thereon located within said casing, said driven gear and said pinion being adapted for meshing engagement with sufficient normal clearance, two flexibly supported bearings carried by said casing to provide floating support for said shaft during lateral movement thereof, one of said bearings being mounted on a flexible reed, and resilient means associated with said bearing for urging said shaft in one direction to provide meshing engagement between said pinion and said driven gear, the other of said bearings being mounted in a flexible diaphragm to provide compensating movement for the opposite end of said shaft when said one end is laterally moved by said resilient means.

2,531,242
ELECTRODYNAMIC PHONOGRAPH PICKUP
George R. Yenzer, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 5, 1947, Serial No. 772,359
4 Claims. (Cl. 179—100.41)



1. A lateral type feedback recorder comprising a magnet system including a driving magnet, a magnet system including a feedback magnet, each of said magnet systems comprising two pole-pieces and having one of said pole-pieces surrounded by the other of said pole-pieces to form an air-gap the major portion of which is annular and of uniform radial width, the remaining portion of which has a radial width greater than that of said major portion, a vibratory system including a driving coil in one of said gaps carrying currents representing sounds to be recorded, a feedback coil in the other gap for generating voltages to control the motion of the vibratory system, a stylus, and rigid means connected to said stylus, said coils being coaxially mounted on said rigid means in lateral relationship on either side of said stylus for vibration in said gaps, a resilient support for said coil mounting means, said resilient support and coil mounting means having such mass and stiffness as to have a single resonant frequency within the operating range, and shielding means between said magnet systems for shielding the feedback coil from the field of the driving coil.

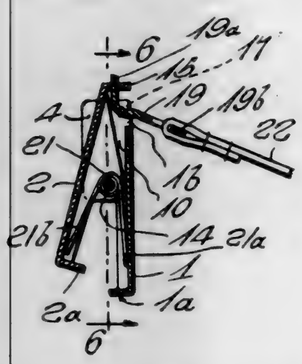
2,531,243
FUEL-AIR RATIO CONTROLLER
Edward V. Albert, New Rochelle, Thomas H. Randall, Jr., Beacon, and Everett M. Barber, Wappingers Falls, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 19, 1946, Serial No. 698,016
10 Claims. (Cl. 74—522)



1. In a fuel-air ratio controller of the character described, a housing having a fluid connec-

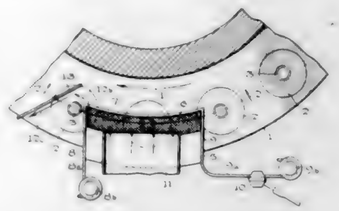
tion, a flexible diaphragm having one end connected to the outer open end of said housing to seal the space within said housing on the exterior of said diaphragm, a female stud member, the inner end of said diaphragm being connected to the inner end of said female stud member, a male stud member adjustably connected to said female stud member, said stud members extending centrally within said diaphragm and spaced substantially therefrom, a spring retainer between said diaphragm and said female stud member and spaced from the exterior of said female stud member, a cylindrical extension on said spring retainer mounted on the outer end of said housing so as to be within said diaphragm but substantially spaced from the exterior of said female stud member, the outer end of said cylindrical extension being beyond the outer end of said female stud member, a cylindrical enlargement carried by said male stud member so as to be spaced within the outer end of said cylindrical extension, a compression spring mounted within said cylindrical extension between one side of said spring retainer and said cylindrical enlargement, and an oppositely acting compression spring mounted within said diaphragm between the opposite side of said spring retainer and said female stud member.

2,531,244
GARMENT CLASP
John R. Andrus, Brooklyn, N. Y., assignor to Stephen Apostoluk, New York, N. Y.
Application October 23, 1945, Serial No. 623,906
2 Claims. (Cl. 24—250)



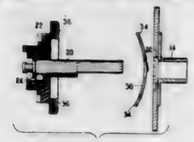
1. A garment clasp comprising a pair of jaw-like members each terminating in a garment-engaging gripping portion, side walls integral with said jaw-like members directed toward each other in overlapping relation, a pivotal connection between said side walls, the side walls of one of said members having a substantially uniform depth and the side walls of the other of said members being formed on a bias tapering toward the end thereof for allowing said members to be angularly displaced with respect to each other for spreading said jaw-like members at the garment-engaging gripping portion for receiving a garment to be supported therebetween, an angularly disposed integral end portion extending from the end of said second mentioned jaw-like member and projecting substantially beyond the end of said first mentioned jaw-like member, said angularly disposed integral end portion having a perforation therein immediately adjacent the terminating end thereof, a cam-shaped actuator pivotally mounted between the side walls of said first-mentioned jaw-like member and having a substantially curved tongue integrally connected therewith and variably extendable through and withdrawable from the perforation in the perforated end portion of said second mentioned jaw-like member with the terminating end of said tongue effecting sliding engagement with the inner face of said second mentioned jaw-like member in a direction toward the pivotal connection of said jaw-like member for moving said second mentioned jaw-like member to a stabilized position in which the bias tapering walls thereof abut with the inner surface of said second mentioned jaw-like member for controlling the opening and closing of said jaw-like members, said tongue operating to positively maintain said jaw-like members closed when said tongue is withdrawn from said perforation in said second mentioned jaw-like member and slides against the inner surface of said second mentioned jaw-like member, and spring means disposed between said jaw-like members.

2,531,245
SIFTING FEEDER FOR POWDER COMPRESSING MACHINES
Lawrence H. Bailey, Cheltenham, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application February 4, 1947, Serial No. 726,336
4 Claims. (Cl. 18—30)



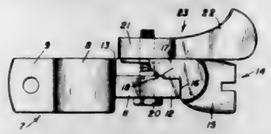
1. In a press for molding articles from finely powdered material in the cavities of a plurality of die elements carried by a rotary die table, the transverse dimensions of said die cavities being so small as to cause bridging of said powdered material across the cavities when the cavities are filled by scraping a pile of said material across the top surface of said table, an improved feeding device for filling said cavities with powdered material without causing bridging of said material and without entrapping air in said cavities comprising, in combination, a relatively shallow tray-like element mounted above said rotary table in spaced relation to the face of said table and having a screened bottom section elevated above said table and extending over the path of travel of said die elements, the mesh openings of said screened section being less than the distance of separation of the walls forming each die cavity, and the screened section of said tray being extended along the path of travel of said die elements for a distance sufficient to completely fill each die cavity as it passes beneath said screened section, said powdered material passing directly and freely from said elevated screen section into each die cavity, a chute positioned above said tray for supplying a powdered molding material to said tray, and means for continuously vibrating said tray during rotation of said table.

2,531,246
CLICKER MECHANISM FOR SPINDLES
Hugh W. Batcheller, Newton, Mass., assignor, by mesne assignments, to Ark-Les Switch Corporation, Watertown, Mass., a corporation of Massachusetts
Application February 15, 1947, Serial No. 728,838
5 Claims. (Cl. 74—527)



5. In a clicker mechanism, a spring washer consisting of a thin disk of resilient material with a central hole, said disk being curved so that one face is cylindrically convex and the other cylindrically concave, two bosses projecting from the high portion of the convex face and arranged symmetrically with respect to said hole, and two tongues extending outward from the edge of said disk at points angularly spaced 90° from said bosses.

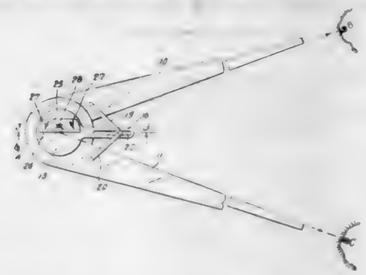
2,531,247
BATTERY CABLE AND POST CLAMP
John B. Batlle, Los Angeles, Calif.
Application April 29, 1948, Serial No. 23,961
2 Claims. (Cl. 173—363)



1. A battery post clamp construction of the class described comprising a split clamp adapted to embrace a post, said clamp being provided midway of its top and bottom surface with an outstanding bifurcated rectangular lug adapted to accommodate the passage of a clamping and assembling bolt, the outer peripheral surfaces above and below said lug being flattened, a cable terminal comprising a socket attachable to the cable, said socket being provided with an outstanding lug, said lug being also rectangular and superimposed upon the first named lug and being bifurcated, the coacting bifurcated portions of the lugs being oppositely directed and providing a passage for a clamping and assembling bolt, a bolt passing through said passage, a nut on the threaded end of said bolt, and a finger-piece attached to said nut, and the tip ends of the furctions of said second lug being flat and resting in firm contact with the coacting flat surface on said clamp.

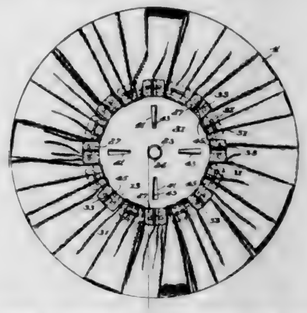
2,531,248
POSITION FINDER
Keith Rogers Belch, Annapolis, Md., assignor to Weems Navigation, Inc., Washington, D. C.
Application June 22, 1948, Serial No. 34,430
2 Claims. (Cl. 33—67)

2. A sighting and plotting instrument for use in charting a position comprising in combination, a pair of sighting arms of thin sheet material, each arm having a straight sighting edge, a bushing extending through each of said arms with its axis in alignment with the sighting edge of each arm, said bushing having a head engaging the upper surface of one of said arms, a flat reflector of small vertical height supported by said head closely adjacent and perpendicular to the plane of the sighting edges of said arms, said reflectors have a sighting line thereon aligned with the axis of said bushing, connecting means extending



between said head and said arms for maintaining said reflector in a plane bisecting the angle between said sighting edges, and clamping means to secure said arms in adjusted position, said bushing having an axial recess therein to receive a marking point for marking a curved line of position.

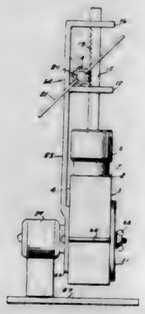
2,531,249
BUFF CONSTRUCTION
James D. Blair, New Hartford, and George A. Hendey, Rome, N. Y., assignors to Divine Brothers Company, Utica, N. Y., a corporation of New York
Application September 29, 1948, Serial No. 51,818
2 Claims. (Cl. 51—193)



1. A buff construction characterized by a relatively high degree of safety and resistance to disintegration by centrifugal forces during high speed rotation, said buff construction comprising an annular body of woven textile material formed from a plurality of layers all wrapped around substantially a common fold line near the inner edge of said annular body, a stabilizing ring of metal extending integrally and continuously around said body approximately at said fold line in such position that each of said layers of textile material is wrapped around said ring, a metal mounting plate having a main plane located substantially midway of the thickness of said annular body and having at its periphery a series of integral marginal ears alternately bent laterally in opposite directions from said main plane to form collectively a seat for the inner edge of said annular body and thence bent radially outwardly along a face of said annular body to prevent axial displacement of said annular body from said seat, the outer ends of said outwardly ex-

tending ears being located outwardly beyond the outer edge of said stabilizing ring, and metal staples anchored in said outwardly extending ears and extending through said ears and through the thickness of said annular body in positions outwardly beyond the outer edge of said stabilizing ring.

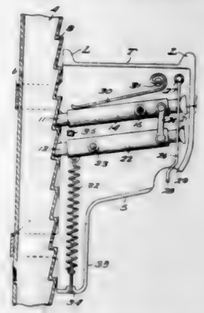
2,531,250
FOOD MACERATOR AND LIQUEFIER
Walter Bopp, Tucson, Ariz.
Application March 22, 1946, Serial No. 656,428
4 Claims. (Cl. 100—42)



2. A food grinder and liquifier comprising a body block of transparent synthetic resin having a cutter housing bore extending therethrough from front to back, a vertical feed bore opening into said cutter housing bore, a juice delivery duct extending from the bottom of said cutter housing bore to the exterior of said body block, a feed rammer operative in said vertical feed bore, a rack and pinion press operative to force said rammer into said vertical bore, a cutter housing lining said cutter housing bore, having a segmental bottom opening co-extensive with the opening of said juice delivery duct, an arcuate juice screen fitted into the segmental bottom opening, a replaceable pulp screen closing the outer end of said housing bore, a locking ring securing said screen against the outer end of said cutter housing, a mounting plate forming means of support and closing the inner end of said cutter housing, an operative shaft extending axially thru said mounting plate adapted to carry a removable cutter, a cylindrical cutter secured on said shaft having a spiral knife formed on its peripheral surface, with the convolutions thereof interrupted by longitudinally extending grooves forming teeth, angularly faced radially receding segmental recesses formed on the outer delivery end of said knife adapted to force material passing over its end axially outward, and means for rotating said cutter shaft.

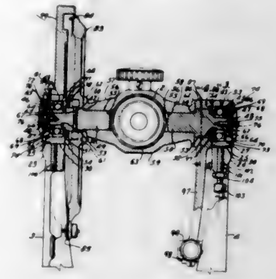
2,531,251
ADJUSTABLE STILT
Carl Bruno, Encino, Calif.
Application December 12, 1946, Serial No. 715,712
5 Claims. (Cl. 272—70.1)

1. An automatically adjustable stilt comprising a standard having ratchet teeth in one edge thereof, a foot block slidably mounted on said standard, horizontally disposed upper and lower pawls positioned in the said foot block, means pivotally mounting the said pawls in the foot block with the upper pawl fulcrumed at a point spaced from the outer end thereof and the lower pawl fulcrumed at a point spaced from the inner end, a link connecting the outer ends of the pawls with the link pivotally connected to the upper pawl close to the fulcrum and to the lower pawl at a point a considerable distance from the fulcrum



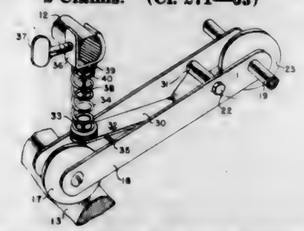
whereby the downward pressure on the foot block actuates the upper pawl in the block to elevate its position therein, and resilient means in the foot block for elevating the block on the standard as the said downward pressure is released.

2,531,252
SURVEYING INSTRUMENT
Amber N. Brunson, Independence, Mo.
Application July 24, 1947, Serial No. 763,303
5 Claims. (Cl. 33—46)



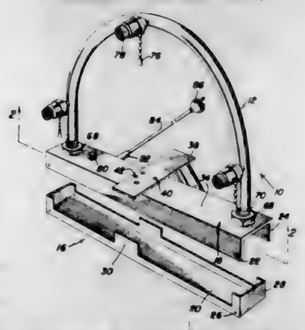
1. In a surveying instrument, a support including spaced standards, bearing blocks mounted on the upper end of said standards, said bearing blocks each having a bore therein, said standards and bearing blocks having cooperating guide surfaces for restricting the blocks against lateral movement, means for securing the bearing blocks to the standard against shifting movement, means cooperating with the securing means for adjusting one of the bearing blocks vertically, antifriction bearings each including a relatively rotatable outer ring member and inner ring member having a space therebetween for accommodating rolling elements, said outer ring members being mounted in the bearing bores, means in said bores engaging the side of the outer ring members, means carrying an instrument, trunnions on said carrying means extending through the axis of the inner ring members for mounting same thereon, shoulders on the trunnions for engaging the adjacent side faces of the inner ring members, and means on the trunnions engaging the other side faces of said inner ring members for retaining same against longitudinal movement.

2,531,253
ATTACHMENT FOR PRESSES
Norman F. Carden, Jr., Durham, N. C.
Application January 10, 1947, Serial No. 721,408
2 Claims. (Cl. 271—63)



1. An attachment for the paper ejecting mechanism of a lithographing machine of the type having a driven ejector roll and a roller cooperating therewith supported by a pivotally mounted arm, said attachment comprising an elongated member, one end of said member being adapted to be pivotally connected to said arm remote from said roller, the other end of said member being adjacent to said roller and having means engaging said arm, a clamp adapted to be secured to said lithographing machine adjacent to said roller, resilient means positioned between said clamp and the end of said member adjacent to said roller, and adjustable means engaging said resilient means for varying the compression of said resilient means.

2,531,254
CAMERA MOUNTING APPARATUS
Alberico Caroselli and Dominick A. Caroselli, Jersey City, N. J.
Application June 4, 1948, Serial No. 31,198
2 Claims. (Cl. 248—177)



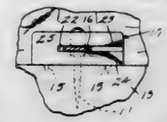
1. In a photography support, an elongated base member, means for removably retaining a camera on said base member intermediate the ends of the latter, an arcuate standard, means for removably securing the free ends of said standard to said base member adjacent the ends of the latter, spaced nipples carried by said standard, and light retaining socket members removably carried by said nipples.

2,531,255
CONTAINER AND DISPLAY INSERT
John D. Clarke, Downers Grove, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application March 7, 1945, Serial No. 581,380
3 Claims. (Cl. 229—23)

2. The combination of an article holding insert fabricated from a single blank and comprising a bottom panel, a cover panel hingedly articulated to said bottom panel, and a plurality of wall members serving to support said cover panel, in the closed position thereof, in spaced relation with respect to said bottom panel, said cover panel being hinged to one of said wall members, others thereof each including inner and outer upstanding panels which are integrally

connected to one another and to said bottom panel, and an extension on each of said outer panels which underlies and is secured to the bottom panel, said insert being outwardly collapsible to an inoperative condition, and a carton receiving said insert in confining engagement with the wall members of the latter to hold the same in upstanding position.

2,531,256
SASH LOCK
Charles B. Clasen, Reno, Nev.
Application December 26, 1947, Serial No. 793,867
1 Claim. (Cl. 292—340)



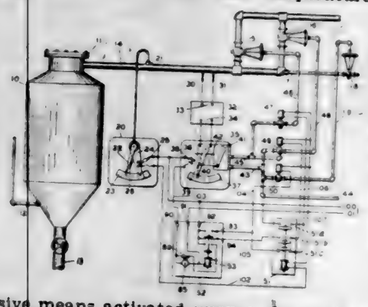
In a sash lock a keeper block adapted to engage on the upper side of the upper rail of a lower sash, said keeper block having a horizontal keeper slot opening through the inner and outer edges and one end thereof, the walls of said slot being flared at said one end of said block for receiving and guiding a locking bolt slidably therein, a vertical bore extending through said block in the center thereof and intersecting said slot, an upwardly opening counterbore of increased diameter formed in said block concentric with said first bore and extending below said slot, and a plurality of spaced apart tangs depending from the bottom of said block for engagement in the upper rail whereby a single headed fastening means may be disposed in said bore and counterbore for securing said block to the upper rail and said tangs will prevent turning of said block about the fastening means.

2,531,257
VENT CONTROL FOR PROCESSING CONTAINERS
Robert D. Cowherd, West Terre Haute, Ind., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application April 25, 1947, Serial No. 743,925
24 Claims. (Cl. 137—78)

1. In apparatus for regulating the venting of effluent from a processing container evolving a normally gaseous effluent, means responsive to the electrical resistivity of said gaseous effluent, means for controlling the venting of said effluent, and means controlled by the first mentioned means for impressing a modulated performance upon said controlling means in accordance with the resistivity of said gaseous effluent.

9. In apparatus for regulating the venting of effluent from a processing container evolving a normally gaseous effluent, means responsive to the electrical resistivity of said gaseous effluent,

a valve for controlling the venting of said effluent, means controlled by the first mentioned means for operating said valve to increase said venting as the resistivity of said gaseous effluent increases and for operating said valve to decrease said venting as said resistivity decreases, a second valve, control means for said second valve for maintaining the latter closed while the first valve is in operation, means responsive to the temperature of said effluent, and control means including connections from said temperature-re-

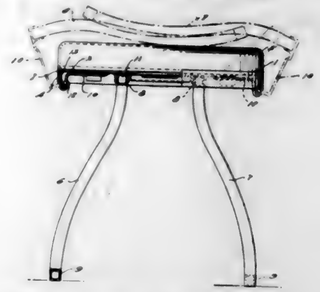


sponsive means activated upon a change in said temperature beyond a predetermined value in one direction to cause closing of said first valve and to place said control means for said second valve under control of said resistivity-responsive means for operating said second valve in the opening direction as said resistivity decreases and in the closing direction as said resistivity increases and, upon a change in said temperature beyond said value in the opposite direction, activated to restore the performance of said valves to the original characteristic.

2,531,258
DUAL FLOWING DEVICE
Otis Cranfill, Groesbeck, Tex., assignor of one-half to B. F. Weekley, Fort Worth, Tex.
Application March 5, 1946, Serial No. 652,048
4 Claims. (Cl. 166—2)

1. A dual flowing device for a well hole which passes through two vertically spaced oil producing stratums, comprising a casing lining the well hole from the bottom thereof to the surface of the ground and having a perforated area at each of said stratums, outer flow tubing disposed within and in spaced concentric relation to said casing and extending continuously from the bottom of the well to a point above the top of said casing, a packer on said outer flow tubing engaging the casing between the perforated areas for isolating the stratums from each other with respect to the space between the casing and the outer flow tubing, said outer flow tubing having a perforated area above the packer and adjacent the upper perforated area of the casing and being provided with an internal valve seat below said perforated area in the outer flow tubing, an inner flow tubing including a lower section open at its lower end hung in the lower portion of the outer flow tubing below said valve seat and extending downwardly to a position adjacent the lower perforated area in the casing and an upper vertically movable section separate from the lower section extending above the outer flow tubing and having an external valve head on its lower end engageable with said valve seat when said upper section is lowered, said upper section further having packing means on its lower portion sealingly engaging the outer flow tubing and selectively movable to a position above or a position below the perforated area of the outer flow tubing by raising or lowering said upper section, whereby communication may be established between the inner flow tubing and both stratums or communication may be established between the inner flow tubing and the lower stratum only while simultaneously establishing communication between the outer flow tubing and the upper stratum only.

2,531,259
FOLDING STOOL
Roger G. Cudini, Birmingham, Mich., assignor to Moynahon Bronze Company, a corporation of Michigan
Application February 17, 1948, Serial No. 8,780
6 Claims. (Cl. 155—151)

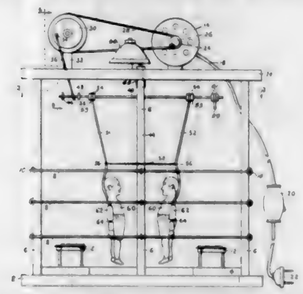


1. A folding support comprising a support, a pair of legs at opposite sides of said support disposed thereunder and having the upper ends thereof disposed inwardly of the adjacent side of said support, hinge plates having their inner ends secured to the upper ends of the adjacent legs and means hingedly connecting the outer edges of said plates to the adjacent outer edges of said support.

2,531,260
ANIMATED FIGURE TOY
William E. Davenport, Lima, Ohio
Application March 27, 1947, Serial No. 737,457
1 Claim. (Cl. 46—143)

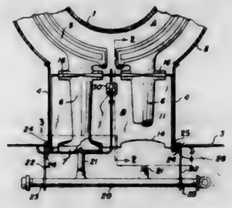
A toy comprising a simulated boxing ring having a top, a pulley rotatably mounted on the top, an eccentric pin on said pulley, a rod loosely mounted on said pin at one end thereof, a support centrally of the ring and in vertical relation thereto, a lever arm pivotally mounted in the upper end of the support centrally of the

arm, a loop on the opposite end of the rod receiving one end of the arm, collars on the arm on opposite sides of the loop on the rod permitting relative movement between the loop and arm, inwardly inclined figure supporting members loosely connected at the upper ends adjacent the opposite ends of the arm, collars on the arm on op-



posite sides of the upper ends of the members, figures on the lower ends of the members, a spring connected at its opposite end to the members, a balancing weight on the end of the arm opposite to the end connected to the rod and motor means on the top having a drive connection with the pulley for the rotation thereof.

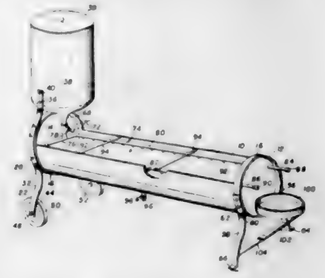
2,531,261
FURNACE BURNER MOUNT
Edward R. Downe, Elyria, Ohio, assignor to The C. A. Olsen Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application January 20, 1947, Serial No. 723,163
2 Claims. (Cl. 158—7)



1. Apparatus of the class described including furnace means having a combustion chamber with a pouch inlet thereto, burner means having a mixing tube with an enlarged inlet end, a burner head, and downwardly recessed arms laterally extending from said tube adjacent said head, and mounting means for said burner means and including a support of arch form with side members fitting between the sides of said pouch inlet and a transverse member interconnecting said side members, the inner end of said transverse member having upstanding members receiving said mixing tube and received by said arms thereof, and the outer end of said transverse member having an opening to receive and position the inlet end of said tube.

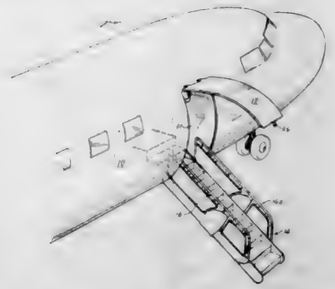
2,531,262
PORTABLE FEEDING TROUGH
Robert C. Engelhaupt, Bonesteel, S. Dak.
Application August 5, 1948, Serial No. 42,603
2 Claims. (Cl. 119—53)

1. A feeding trough comprising an elongated U-shaped body, opposed end walls on said body, opposed standards medially secured to the body adjacent one of the end walls, wheels journalled on the lower ends of the standards, a filling tank mounted between the upper ends of the standards, perforated pipes connected at one end to



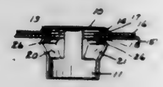
said tank and longitudinally disposed in said body, the other ends of said pipes being extended through one of the end walls, drain caps detachably secured on the extended ends of said pipes and means for draining said body.

2,531,263
COACTING DOOR AND MOVABLE STAIRWAY COMBINATION
Frank W. Fink and La Verne E. Morgan, San Diego, Calif., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application February 20, 1947, Serial No. 729,718
17 Claims. (Cl. 244—129)



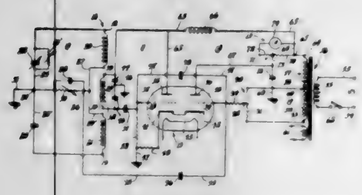
16. In a vehicle, a body portion having a door opening therein, a door pivotally mounted on said body portion for closing said door opening, a folding stairway pivotally secured to said body portion leading to said door opening whereby access is had to the interior of said body portion, actuating means for retracting and extending said stairway in and out of said door opening, counterbalancing means including spring means having a connection with said door and being operative on said stairway actuating means whereby the weight of the door acts in concert with the counterbalancing means to substantially balance the weight of said stairway when it is extended out of said door opening, and actuating means having an operative connection with said stairway and said door for moving them concurrently between door closed and stairway retracted position and door open and stairway extended position.

2,531,264
FASTENING DEVICE
Lawrence H. Flora, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 22, 1945, Serial No. 600,998
4 Claims. (Cl. 24—213)



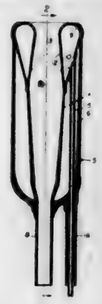
1. A fastening device of resilient sheet material comprising a central portion adapted to form a closing head, a plurality of legs extending from the periphery of the said closing portion and bent first inwardly along the underside of the closing portion and thence at an angle thereto, each leg having a comparatively narrow portion intermediate its extremity and the head and a portion enlarged in each direction at its extremity, tongues provided by severing to a depth greater than their width the upper part of the enlarged portions on the legs, said tongues freely projecting first outwardly from such portions and then inwardly in a direction inclining toward the head.

2,531,265
ELECTRONIC APPARATUS
Richard M. Franzel, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 21, 1944, Serial No. 550,373
7 Claims. (Cl. 250—27)



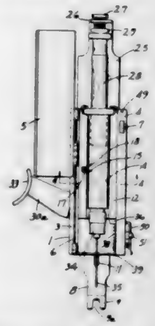
6. In a device of the class described, in combination: an electron discharge device having an output circuit and input circuit means including means for controlling the discharge of said device; a first source of alternating voltage of a power frequency; means energizing the discharge circuit and the control circuit of said device with alternating voltages of opposite phase to provide a bias; and means, including means responsive to a characteristic of the discharge of said device, connecting said source in a selected phase relationship in said output circuit of said device; said input circuit means comprising first means impressing on said control means of said discharge device an alternating potential having a carrier frequency component and a power frequency component, said power frequency component being of said selected phase relationship, condition responsive means impressing on said control means of said discharge device a variable alternating potential having components of said carrier frequency and said power frequency, and means for initially adjusting the phase of said carrier component of said variable potential to a desired relation with the carrier component of said second potential.

2,531,266
TEAT CUP
Edward J. Gierl, Athens, Wis.
Application March 26, 1947, Serial No. 737,314
2 Claims. (Cl. 31—85)



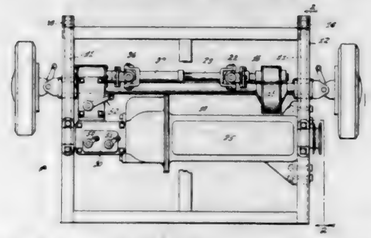
1. A teat cup for milking machines comprising an outer vertically elongated rigid chamber and an inner vertically elongated expansible and contractible chamber, said inner chamber having a mouth end for receiving a teat, an annular expansible and contractible chamber at the mouth of the inner chamber normally restricting said mouth and including a pair of vertically elongated pockets at diametrically opposite sides of the annular chamber communicating therewith and depending therefrom alongside said inner chamber, said pockets forming inner walls of increased area to first respond to internal pressure in the annular chamber to compress the said walls against the teat at its base to close the same, and means for introducing air under pressure to said annular chamber and rigid chamber alternately to cause said annular chamber to first contract about the upper end of the teat and said inner chamber to subsequently contract about the remainder of said teat.

2,531,267
HYPODERMIC SYRINGE OPERATING DEVICE
Fritz Harnisch, New Orleans, La.
Application October 16, 1947, Serial No. 780,255
6 Claims. (Cl. 128—218)



1. In an operating device for intravenous injection syringes, in combination, a casing, a syringe carrier movable in the casing, and mechanism coacting with the carrier to cause quick movement of the carrier to first cause needle inserting action of the syringe mounted thereon, and later effect reverse quick needle withdrawing movement of said syringe, the mechanism including a spring unit comprising a spring for causing syringe needle inserting movement of the carrier, means on the carrier to move the said unit to condition said spring for said inserting movement of the carrier, means to lock the carrier from movement when the spring is so conditioned, and means to release the carrier for said movement, said unit including a second spring between it and the carrier adapted to be conditioned by movement of the carrier to cause needle withdrawal movement of the latter, other means to lock the carrier to the unit when the second spring is so conditioned, and a device to unlock the carrier and unit for enabling the spring to effect such needle withdrawal movement.

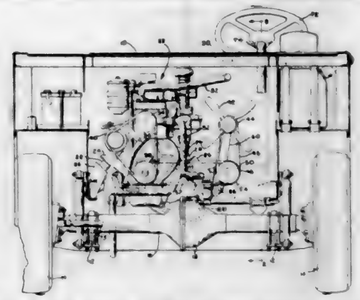
2,531,268
POWER UNIT FOR VEHICLES
Arthur W. Herrington, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application December 22, 1945, Serial No. 636,913
2 Claims. (Cl. 180—42)



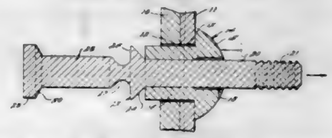
1. In a power unit for a cargo vehicle having a load carrying platform extended rearwardly from the driver's position; a frame adapted for detachable connection to the front end of the vehicle, a driven-steering-wheel-axle unit comprising an axle housing yieldably supported on said frame and an axle therein to support and drive the steerable front wheels of the vehicle, an input shaft laterally offset from, forwardly of, and parallel to said axle, said input shaft being positioned at one side of said frame and above said axle, gears operatively connecting said input shaft to said axle, an internal combustion engine having a crankshaft rearwardly of and parallel to said axle, an output shaft substantially in alignment with said input shaft and on the opposite side of said frame, a variable speed transmission located at the side of said frame carrying said output shaft and including: gear elements in alignment with said crankshaft, a countershaft interposed between said crankshaft and said output shaft, and gear elements on said countershaft engageable in driving relationship with both of said aforementioned gear elements; and a universal driving connection between said output and input shafts, said engine, transmission, and driving connection all being disposed entirely forwardly of the driver's position of the vehicle.

2,531,269
POWER UNIT ARRANGEMENT FOR DELIVERY TRUCKS
Arthur W. Herrington, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application June 5, 1948, Serial No. 31,315
6 Claims. (Cl. 180—12)

2. In a vehicular power unit, steerable ground wheels and a drive axle connecting the wheels, a compartment resiliently mounted on said axle, an engine extending longitudinally along one side of said compartment and positioned over said axle, a flexible drive means connected with the rear of said engine and drivingly connected with said axle, a radiator for said engine and located at the front of the other side of said compartment, a fan for said radiator located in said compartment behind the radiator and drivingly connected to said engine, and steering means for said ground wheels extending through said compartment behind said radiator to a steering wheel at the rear thereof.



2,531,270
BLIND RIVET
Oscar H. Hood, Detroit, Mich., assignor to Huck Manufacturing Company, a corporation of Michigan
Application October 22, 1947, Serial No. 781,425
1 Claim. (Cl. 85—40)



A fastener for use in attaching together a plurality of members having aligned openings comprising a tubular element adapted to extend through the openings in the members and having a preformed head on one end for engaging one side of the adjacent member and having its other end adapted to be expanded into a head at the other side of the opposite member, a pin of ductile material extending through the element and beyond the preformed head so that the pin may be pulled in a direction outwardly from said head, the pin at its other end projecting beyond said other end of the tubular element and terminating in a head, said pin having an integral frusto-conical portion axially spaced from the head on the pin with the frusto-conical surface facing away from the head on the pin toward the direction of pull on the pin, the outside diameter of the frusto-conical portion being substantially the same as the outside diameter of the adjacent end of the tubular element, said pin adjacent the frusto-conical portion and between the frusto-conical portion and the head on the pin having a groove of reduced section as compared to the portion of the pin on the opposite side of the frusto-conical portion into which metal of the frusto-conical portion may flow as the pin is pulled, such metal of the frusto-conical portion collapsing into the space provided by the reduced section as the pin is pulled after the frusto-conical portion has first formed a head on the tubular element and thereafter passes through the tubular element to fill the openings a portion of the pin between the reduced section and the head

of the pin following the frusto-conical portion into the tubular element and the length and diameter of the last named portion of the pin being such as to fill said openings and effect a tight fit between the pin and the tubular element.

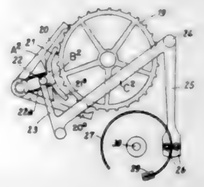
2,531,271
LAMINATED TACKING STRIP AND FRAME
Vincent H. Hoehn, South Bend, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application October 17, 1946, Serial No. 703,797
2 Claims. (Cl. 155—180)

1. In an upholstery structure, the combination of a seat base or the like comprising a fabric panel having a marginal pocket of fabric therearound and a relatively thin flat marginal frame composed of superposed laminations respectively of metal and of a tough tack penetrative material and enclosed in said pocket and thereby holding the panel tautly outstretched, said base having another fabric secured thereto by fasteners engaged through the latter fabric and through the fabric of the pocket and through the tack penetrative lamination of the frame and clinched against the metal lamination of the frame.

2,531,272
VAPORIZING TYPE BLAST WHIRL OIL BURNER
John O. Horbetz, Salt Lake City, Utah
Application April 29, 1948, Serial No. 23,947
5 Claims. (Cl. 158—91)

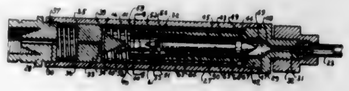
1. An oil burner, comprising a trough surrounding and defining an air-supply opening, said trough having its outer wall of greater height than its inner wall and being adapted to contain a body of oil with a broad vaporizing surface; a cover for said trough and air-supply opening, said cover having a deflector depending substantially centrally from its underside into said opening for directing air outwardly toward said trough; a multitude of heat-radiating fins depending from the underside of said cover in substantially radial arrangement between said deflector and the rim of said cover and defining a plurality of laterally-directed and substantially unobstructed flow channels, at least part of said multitude of fins seating upon the inner wall of the trough to support said cover and to determine a laterally-directed, peripheral burner gap between the peripheral margin of said cover and the outer wall of the trough, said fins having the major portion of their vertical depths depending into said trough below the rim of the outer wall thereof, so that said flow-channels are disposed to a major extent within the trough and below the said rim of the outer wall thereof, terminating within the trough and having their discharge openings directed laterally toward said burner gap below the overhanging peripheral margin of said cover.

2,531,273
ESCAPEMENT DEVICE
René Philippe Jaccard, Geneva, Switzerland, assignor to Albert Jean Devaud, Geneva, Switzerland
Application April 23, 1945, Serial No. 589,898
In Switzerland April 27, 1944
12 Claims. (Cl. 58—117)



1. An escapement mechanism for time pieces and the like, including, a frame, an escape wheel having teeth and mounted for rotation on said frame, driving means for driving said wheel, regulating means for said wheel including a shaft and an oscillatable drive member fixed thereto, and stop pallet means and impulse pallet means for controlling the intermittent movement of the escape wheel, said stop pallet means being pivoted to the frame adjacent the wheel and said impulse pallet means being pivotally carried by and actuating said drive member of the regulating means, and cooperating means respectively on the stop pallet means and impulse pallet means for controlling their relative movements with respect to the successive teeth of the escape wheel.

2,531,274
SAFETY CHECK VALVE FOR HYDRAULIC SYSTEMS
Arven Johnson, Kansas City, Mo.
Application August 7, 1948, Serial No. 43,025
8 Claims. (Cl. 303—84)



1. A safety check valve assembly for use in hydraulic systems comprising, a housing having inlet and discharge ends, plug connections in the respective ends of said housing forming a chamber in the housing, said plugs being provided with openings leading to said chamber, a piston in the inlet end of said housing, said piston having an opening therein permitting passage of fluid therethrough, said piston being movable in the housing in response to fluid pressure differential on the inlet side thereof the plug connection in the discharge end of said housing having a fluid chamber and a seat connecting with the opening in the discharge end of the housing and a cylindrical sleeve extending into the housing chamber, a valve resiliently mounted in said sleeve for engaging said seat and having a stem, an annular recess on the inner end of the stem having a shoulder, means including a lever pivotally mounted on said sleeve having a hook for engaging said shoulder, and means on the piston in the inlet end of the housing responsive to fluid pressure differential on the inlet side thereof for disengaging said hook to permit said valve to close.

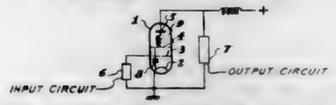
2,531,275
POLYMERIZABLE UNSATURATED ESTERS
John Leslie Jones, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application January 26, 1945, Serial No. 574,821
1 Claim. (Cl. 260—45.4)

A hardenable composition comprising 100 parts of a polymerizable unsaturated polyhydric alcohol-polycarboxylic acid polyester and 20–40 parts of an ester of an unsubstituted alpha-beta-olefinic monocarboxylic acid having from three to four carbon atoms, of which not more than three form a chain in series, with an allyl ester of a saturated alpha-hydroxy monocarboxylic acid having from two to three carbon atoms.

2,531,276
METHOD FOR KILLING WEEDS
Walter C. Klingel, Basking Ridge, N. J.
No Drawing. Application March 6, 1946, Serial No. 652,490
4 Claims. (Cl. 71—2.7)

1. A method for selectively killing weeds without rendering soil infertile or preventing germination of grass seed therein which comprises applying to growing weeds to be destroyed a water solution containing one part of a compound selected from the group consisting of the alkali metal higher alkyl sulphates and ammonium higher alkyl sulphates together with from five to twenty-five parts of water.

2,531,277
ELECTRIC DISCHARGE DEVICE FOR THE AMPLIFICATION OF SHORT WAVES
Kornelis Swier Knol and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 3, 1948, Serial No. 12,774
In the Netherlands March 7, 1947
3 Claims. (Cl. 250—27.5)



1. An electric discharge tube adapted for use in short wave amplifier circuits of the type having an output circuit connected to the anode, and an input circuit connected between two other electrodes; the combination comprising: a sealed envelope; cathode and control grid electrodes one of which is grounded, an anode and at least one screen grid all mounted within said envelope; lead in conductors for said cathode, control grid and anode; an inductance within said envelope connected between said anode and said screen grid; a capacitor within said envelope connected between said screen grid and said grounded electrode, whereby said screen grid exhibits substantially ground potential with respect to the short wave signal being amplified.

2,531,278
SHIELDED ULTRA HIGH FREQUENCY CATHODE-RAY TUBE
Stanley J. Koch, Clifton, and Robert E. Rutherford, Nutley, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application September 11, 1947, Serial No. 773,448
10 Claims. (Cl. 250—158)

1. A cathode-ray tube having a deflection system comprising two pairs of shielded deflection plates, means to connect said deflection plates respectively to the inner ends of the central conductors of short lengths of coaxial lines that lead to said plates, the inner ends of the outer con-

ductors of said coaxial lines being connected to and supported by a supporting frame located on the axis of said tube, the outer ends of the outer conductors of said coaxial lines being sealed to the wall of said tube and adapted to receive a coaxial connector fitting.

2,531,279
THIOPHENES FROM SULFUR DIOXIDE AND HYDROCARBONS
Kenneth L. Kreuz, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application December 29, 1944, Serial No. 570,465
12 Claims. (Cl. 260—329)

1. The process for the production of a thiophene which comprises passing sulfur dioxide and a hydrocarbon having an aliphatic straight chain of at least four carbon atoms in proportions corresponding to a mol ratio of sulfur dioxide to said organic compound of at least 0.3 in vapor phase and at an elevated temperature of at least 700° F. in contact with a silicon gel catalyst at a space velocity less than 5 to form reaction products comprising a thiophene, and recovering a thiophene from the reaction products.

2,531,280
ALKYLATION OF THIOPHENE COMPOUNDS
Kenneth L. Kreuz, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application March 21, 1946, Serial No. 656,160
4 Claims. (Cl. 260—329)

1. A continuous process for producing nuclear alkylated thiophene compounds, which comprises reacting a thiophene compound containing one reactive nuclear hydrogen atom with an unsaturated acyclic compound containing at least three carbon atoms in the vapor phase in the presence of an acid-reacting solid catalyst at a temperature between 400 and 900° F. and at pressures less than about 100 pounds per square inch and at a space velocity of 0.2 to 5 volumes of liquid charge per volume of catalyst per hour.

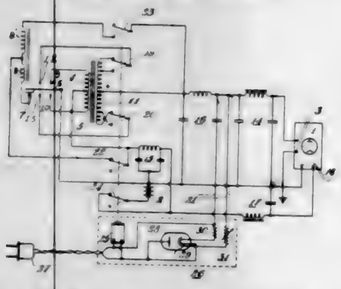
2,531,281
VENTILATED WINDOW
Otto Kubatzky, St. Louis, Mo.
Application May 14, 1945, Serial No. 593,617
3 Claims. (Cl. 98—98)

1. In a ventilating window construction, in combination, a window frame, a lower sash therein, a sill on which the said sash is rockably supported to move from the plane of the window inwardly to a ventilating position, wing units on opposite sides of the window frame at the lower portions thereof and each comprising relatively movable plates connected to slide inwardly, one relatively to the other, one of the plates of each

wing unit being engageable with the frame to limit the in-swing movement of the sash, and another of said plates having a guide for the adjacent side edge of the sash in which the latter

may slide relatively to the wing unit, the plates of each wing unit being pivotally connected to each other at their lower ends, and certain of said plates having top relatively horizontal flanges in overlapping relation to each other.

2,531,282
DUAL VOLTAGE POWER SUPPLY
Jan Kuperus and Hendrikus Theodorus Jozef Wiegerinck, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 10, 1946, Serial No. 668,698
In the Netherlands June 9, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires June 9, 1961
8 Claims. (Cl. 171—97)



8. An electrical circuit arrangement for producing a first direct current potential having a first given value and a second direct current potential having a second given value, comprising first and second pairs of output terminals for said first and second potentials respectively, a transformer having a first winding provided with end terminals and a center tapping terminal and having a second winding provided with end terminals, a center tapping terminal and tapping terminals intermediate to said center terminal and said end terminals, a battery having a voltage value substantially equal to said first given value, means to connect one terminal of the battery to the center terminal of said first winding, a rectifier source of a second voltage having a value substantially equal to said second given value, means to connect one terminal of the rectifier source to the said center terminal of said second winding, an electrically conducting vibratory element, a first pair of contacts arranged on opposite sides of and alternately engaged by said vibratory element, means to connect said pair of contacts each to one of said end terminals of said first winding, first and second switch means each selectively connected to one of said end terminals and to one of said intermediate terminals of said second winding, a second pair of contacts arranged on opposite sides of and alternately engaged by said vibratory element, means to connect said second pair of contacts each to one of said switching means, electromagnetic means for actuating said vibratory element and comprising a first coil and a second coil connected in series relationship, third switch means interposed between said battery and the junction of said coils, fourth switch means interposed between said rectifier source and said coils in series, means to connect the said center terminal of said second winding and the vibratory element to said second pair of output terminals, and means to actuate said first, second, third and fourth switch means to simultaneously connect said first and second switch means to said end terminals, to close said third switch means and to open said fourth switch means and to simultaneously connect said first and second switch means to said intermediate terminals, to open said third switch means and to close said fourth switch means.

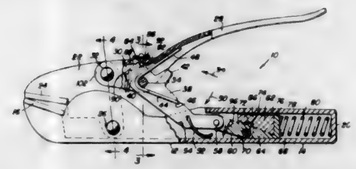
2,531,283
PREPARATION OF THIOACETAMIDE
Charles L. Levesque, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application June 23, 1948, Serial No. 34,810
8 Claims. (Cl. 260—551)

1. The process of preparing a mixture of thioacetamides and dithiooxalodiamides which comprises reacting under anhydrous conditions and at a temperature from 80° C. to 300° C. (*a*) sulfur, (*b*) a member of the class consisting of vinyl ethers and vinyl esters having, respectively, the formulas $R{\cdot}O{\cdot}CH{=}CH_2$ and $RCOOCH{=}CH_2$ in which R is a monovalent hydrocarbon radical from the class consisting of alkyl, cycloalkyl, and aralkyl groups, and (*c*) an amino compound of the formula $HNR'R''$ in which R′ and R″ are members of the class consisting of hydrogen atoms and alkyl, cycloalkyl, and aralkyl radicals.

2,531,284
PRODUCTION OF ALCOHOLS
Norman Levy and Robert Kay Greenhalgh, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 22, 1947, Serial No. 762,795. In Great Britain August 16, 1946
3 Claims. (Cl. 260—641)

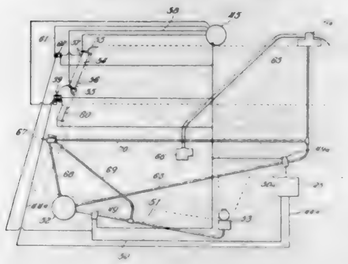
3. A process for the production of tertiary butanol and secondary butanol which comprises reacting a mixture of water, isobutene and a normal butene at a temperature within the range 160°–220° C. and pressure of about 250 atmospheres in the presence of a catalyst comprising essentially the blue oxide of tungsten, the catalyst being prepared by reducing a compound selected from the group consisting of tungstic acid and ammonium paratungstate, the molecular water to olefine ratio being in excess of 1:1, and the olefine feed rate being at least 0.5 kg. per hour per liter of catalyst, separating tertiary butanol from the reaction products and causing the residual butene-containing mixture to undergo reaction in the presence of a second portion of the same catalyst at a temperature within the range of from 230°–270° C. to produce secondary butanol, the pressure, water-olefine ratio, and olefine feed rate in the latter reaction corresponding to those employed in the former reaction.

2,531,285
WRENCH WITH SELF-ADJUSTING JAWS
Edward L. Manspeaker, Turtle Creek, Pa.
Application March 8, 1948, Serial No. 13,539
5 Claims. (Cl. 81—84)



5. In a wrench including a pair of coacting jaws, resilient means for closing said jaws on work of variable thickness, further means for locking said jaws on said work, and additional means responsive to the actuation of the second mentioned means and dependent upon the thickness of the work for pre-adjusting the relative locking position of said jaws.

2,531,286
AUTOMATIC VALVE CONTROL MEANS
William O. Martin, Fort Smith, Ark., assignor to William O. Martin, Inc., Fort Smith, Ark., a corporation of Arkansas
Application March 12, 1945, Serial No. 582,339
4 Claims. (Cl. 171—97)

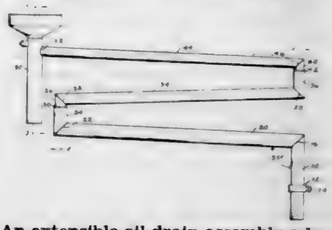


4. In automatic control means, the combination with a locomotive provided with an electric circuit, a source of electric current supply of a normally open electric master switch; a rotatable shaft driven at a prearranged speed by suitable mechanical means intermediate a drive wheel or drive axle of the locomotive and said rotatable shaft, the shaft being provided with a speed controlled plunger adapted to close said master switch when said shaft rotates at or above a predetermined speed; a second shaft provided with a plurality of radially disposed cams arranged predetermined degrees and distances apart; gear mechanism of predetermined gear ratio operatively intermediate said two mentioned shafts whereby said second shaft is given one rotation during a predetermined number of revolutions of the locomotive drive wheel or axle produced by a predetermined distance of travel of the locomotive; a plurality of normally open switch controlled secondary or control circuits energized by the first circuit when the master switch is closed; a plurality of levers for actuating the normally open switches of the secondary circuits, whereby the secondary circuits will be closed after said main switch is closed by the speed and distance of travel of the locomotive.

2,531,287
PRODUCTION OF HYDROGEN CYANIDE
David R. Merrill, Moorestown, N. J., and William A. Perry, Bristol, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application July 25, 1947, Serial No. 763,762
8 Claims. (Cl. 23—151)

1. In the process of producing hydrogen cyanide in gases at high temperatures wherein the hot gases contain ammonia along with hydrogen cyanide, the steps which comprise spraying droplets of water into the hot gases containing ammonia and hydrogen cyanide in an amount sufficient to cool the gases to a temperature between 100° C. and 300° C. by evaporation of all of said droplets and contacting the thus treated gases with an aqueous solution containing sulfuric acid at a temperature above 25° C. and below 100° C. in an amount to bring the temperature of the gases below 100° C., whereby ammonia is removed from the gaseous mixture.

2,531,288
EXTENSION DRAIN
Willard C. Moore, Dayton, Ohio
Application September 5, 1946, Serial No. 694,937
4 Claims. (Cl. 184—1.5)

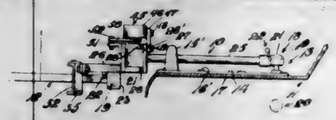


1. An extensible oil drain assembly adapted for use in draining the oil from a motor vehicle mounted on a lift or the like into a vertically disposed fixed drain pipe, said expansible drain assembly including a plurality of sections each having an inlet and an outlet, successive sections being reduced in diameter so that the inner diameter of one section is substantially equal to the outer diameter of a succeeding section, the outlet of one section being telescopically arranged with the inlet of the succeeding section, each of said sections including a tubular steel pipe forming a slight angle with respect to the horizontal, so as to provide a slope for the draining oil, each of said tubular steel pipes having the ends cut at an angle, vertically disposed nipples also cut at an angle welded to the tubular steel pipe, said nipples being made from tubular steel material and the lower nipple projecting downwardly being provided with a saw cut groove so as to provide a resilient end telescopically engaging a pipe into which the oil drains, and means on the downwardly projecting pipe for engaging the telescopically arranged pipe so as to limit the movement of the nipple into the lower pipe, said telescopic union forming swivel unions for joining the pipes so as to permit expansion thereof to extend the pipes into position for drainage.

2,531,289
TRAILER HITCH
Adolf Murat, Laguna Beach, Calif.
Application June 2, 1947, Serial No. 751,754
7 Claims. (Cl. 280—33.44)

1. In a trailer hitch, a draw bar, means for securing said draw bar to a towing vehicle com-

prising a support having a base portion adapted to be attached to the rear portion of the floor of the towing vehicle and a draw bar attaching member movably mounted thereon for movement

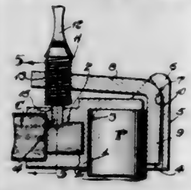


about an axis extending generally horizontally, means for attaching said support to the rear floor portion of the towing vehicle, and a ball joint connection on each side of said axis for attaching said draw bar to said member.

2,531,290
STRIP CASTING MACHINE
Anton H. Narrow, Memphis, Tenn.
Application April 12, 1948, Serial No. 20,505
2 Claims. (Cl. 22—57.2)

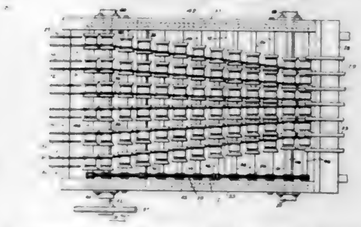
1. In an apparatus for forming strips of material which includes a support, means carried by said support for intermittently pulling one of the strips including a base plate with means for reciprocating said base plate, a bearing block for the strip secured to said plate, a strip locking block, a pivot carried by said base plate with a member adjustably carried thereby and operatively connected with said locking block and mounting said strip locking block on said plate such a distance from said bearing block as to cause binding of the two blocks with the strip therebetween when moving the locking block with respect to and toward the bearing block by moving said plate forward in a part of a single reciprocatory cycle of operation, and a spring reacting on said base plate and said locking block constantly urging said locking block toward said bearing block.

2,531,291
BATTERY CONNECTOR
Carl A. Olson, Bellevue, Nebr.
Application August 5, 1947, Serial No. 766,263
2 Claims. (Cl. 173—259)



1. In a battery connector for electrically connecting a terminal post to an electric cable, a body provided with a horizontally-disposed socket for the reception of an end of said cable, there being a vertically-disposed bore in said body for the reception of said terminal post, said body being provided with a vertically-disposed slot arranged in communication with said bore, said slot being arranged at right angles with respect to said socket and said slot extending longitudinally with respect to said bore, said socket and slot being arranged on opposite sides of said bore, an upright wall arranged contiguous to said slot and provided with an elevated head on its upper end, there being a diagonal fulcrum face arranged on said head, an angular clamp block including a leg positioned in said slot and mounted for movement into and out of contacting relation with respect to said terminal post, said clamp block being provided with a rocking face for coaction with the fulcrum face of the elevated head, an arm arranged at right angles with respect to the leg and secured thereto, there being a groove in said body communicating with said horizontally-disposed socket, a cross-bar slidably seated in said groove for engagement with the end of said cable, and means carried by said arm for biasing said cross-bar into locking engagement with the end of said cable and simultaneously drawing the leg of the clamp into locking engagement with said terminal post.

2,531,292
EGG REARRANGING AND FEEDING DEVICE
Clarence Page, Detroit, Mich., assignor to Page and Cox, Detroit, Mich., a corporation of Michigan
Original application August 29, 1947, Serial No. 771,227. Divided and this application October 19, 1948, Serial No. 55,338
4 Claims. (Cl. 198—30)



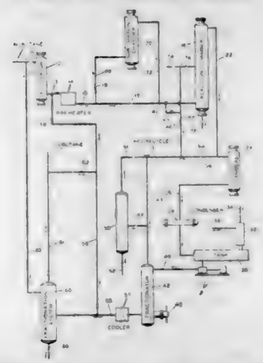
1. An egg-rearranging and feeding device comprising a pair of spaced endless flexible members having shafts extending therebetween and connected thereto, a plurality of axially concave rollers drivingly mounted on each of said shafts, the length of the free portion of each shaft between said members being substantially greater than the combined lengths of the rollers mounted on each shaft, said rollers being freely slidable axially along their respective shafts, and mechanism for positively rotating said shafts in response to the travel of said endless flexible members.

2,531,293
COAT HANGER
Henry M. Paulsen, Seattle, Wash.
Application December 17, 1947, Serial No. 792,132
2 Claims. (Cl. 223—89)

1. In a device for supporting coats and garments, comprising, an upper and a lower pair

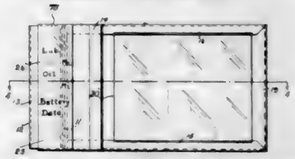
of sections of resilient wires having top ends and lower bodies, wherein said upper pair thereof is twisted together at the top ends thereof to provide a neck and supporting hook, and the lower bodies thereof being sloped outward and downward to provide shoulder members, the lower ends thereof being bent backward and into eyes, said lower pair of such sections having inner and outer portions said inner portions thereof disposed horizontally parallel for adjustments, the inner ends of such parallel lower portions provided with eyes encircling the adjacent lower portion for telescopic lateral movements for adjustments of width or sizes and said outer ends of such lower portions being turned upward and inward to provide elbows for expanding a garment thereover, the upper ends of such upturned elbows being threaded through the respective adjacent eyes on the lower ends of such upper shoulder members and there bent forward into eyes enclosing the shanks of such shoulder members to provide slidable relations between such upper and lower sections for adjustments of the elbows, and the portions of such upper shoulder sections and the upper portions of such elbow sections between the last described pairs of eyes being partially twisted and bowed over and toward the opposite adjacent respective sections for providing friction for locking the pairs of sections against lateral movement when the hook is vertically disposed by the weight of garment supported over the said sections.

2,531,294
HYDROCARBON CONVERSION
Thomas D. Pickell, Kansas City, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 5, 1948, Serial No. 605
15 Claims. (Cl. 260—683.5)



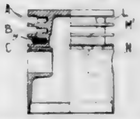
1. A process for vapor-phase conversion of normal butane to isobutane in the presence of HCl and a supported $AlCl_3$ catalyst, which comprises passing normal butane with a promoting amount of HCl in contact with a mass of $AlCl_3$-impregnated adsorbent in a conversion zone maintained at a temperature between 190 and 350° F. and a pressure between 150 and 400 p. s. i. g. so as to convert normal butane to isobutane, thereby gradually decreasing catalytic activity of said mass; when the catalyst activity declines to a predetermined level, passing a mixture of normal and isobutane having substantially the concentration of normal butane and isobutane therein as exists in the effluent from the conversion zone during the conversion cycle through a sublimation zone in contact with a mass of $AlCl_3$ at a temperature within said range so as to entrain sublimed $AlCl_3$; passing the resulting $AlCl_3$-containing mixture through said conversion zone in contact with said mass so as to substantially restore the catalyst therein; thereafter, again passing normal butane and HCl through said conversion zone under the conditions aforesaid.

2,531,295
VEHICLE REGISTRATION CARD AND SERVICE TALLY HOLDER
George D. Ritchie, Evansville, Ind.
Application January 22, 1947, Serial No. 723,605
1 Claim. (Cl. 40—11)



A device for retaining motor car registration cards and oil service tallies comprising a member of sheet material having a substantially plane major body portion providing a support for indicia adapted to be disposed on opposite sides thereof, a relatively shorter body portion spaced from one end portion of the major body portion and providing a support for indicia on one side thereof, a U-shaped bight portion resiliently connecting said body portions to render said member adaptable for removable attachment to a sun visor or like support, and removable transparent pocket members embracing said body portions for retaining cards and the like in association with said body portions, said member being provided with a card and pocket member stop means intermediate said major body portion and said U-shaped bight portion.

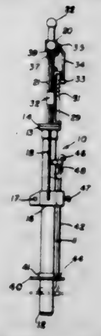
2,531,296
TIGHT JOINT FOR PISTONS
Jean Rodoliakis and Jerome Rodoliakis, Paris, France
Application August 15, 1950, Serial No. 179,576
In France February 9, 1944
7 Claims. (Cl. 309—29)



1. Ring structure for piston comprising a plurality of superposed units of small thickness, each consisting of two half-elements juxtaposed and provided at their ends with tenons and recesses in interengaging relation in such manner as to form a sliding assembly, each unit having on its inner face four notches each spaced 90° from its neighbor, of which two are formed in the medial portions and two in the terminal portions of the two half-elements, the terminal notches being of greater depth than the medial notches, the several superposed units being successively angularly displaced by 90° from their neighbors, in such a manner that the medial notches of one unit register with the terminal notches of the adjacent unit and thereby form groups of registering notches, the respective tenons and recesses of the half-elements having a length greater than the difference between the internal diameters of

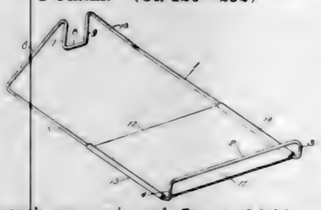
the juxtaposed elements taken at 180° angle respectively and bisecting the notches, spring means interposed between the piston and each group of notches, the spring means tending to radially move apart the half-elements of those units the medial notches of which the spring means engage and the movement of the spring means being limited by engagement with the terminal notches.

2,531,297
PLANTING IMPLEMENT
John J. Rose, McMechen, W. Va.
Application January 16, 1947, Serial No. 722,320
3 Claims. (Cl. 294—50.7)



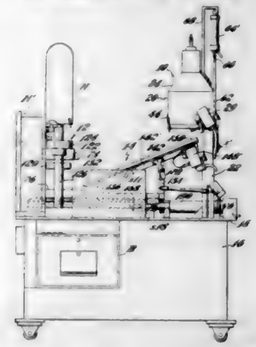
1. A planting implement comprising in combination, a substantially tubular housing adapted at the lower end thereof for insertion in the ground, a transversely extending handle secured to the upper end of said housing, a slidable rod extending longitudinally in said housing, a plunger disc secured to the lower end of said rod, a compression spring for urging said plunger disc outwardly from said housing, a rack provided adjacent the upper end of said rod, a control lever pivotally mounted on said handle, a detent provided on said lever, resilient means for urging said detent in engagement with said rack whereby said plunger disc may be releasably retained in a retracted position against the resiliency of said spring, and adjustable means for restricting the extent of insertion of said housing in the ground.

2,531,298
COMB SUPPORT AND FLAME SHIELD
Arthur Rucker, Chicago, Ill.
Application October 26, 1946, Serial No. 705,939
1 Claim. (Cl. 126—252)



In a comb support and flame shield for use upon a gas range or the like, a substantially oblong open wire frame, one end of said frame bent at right angles to the body, the opposite end bent into parallelism with said one end and including a U-shaped portion disposed wholly above said one end with relation to said frame to support the comb head higher than the handle, the frame body adapted for disposal upon the gas range with said opposite end disposed immediately over the gas flame, and a thin flat solid shield spanning said frame horizontally and extending longitudinally thereof from said one end to a position near the longitudinal center of the frame and defining the floor of a cool air passageway directly above same, said shield being spaced below the level of the upper end of the upturned portion of said one end of the frame.

2,531,299
APPARATUS FOR MAKING HAIR RETAINERS
Lester T. Sawyer, Leominster, Mass.
Application December 6, 1948, Serial No. 63,798
28 Claims. (Cl. 18—19)

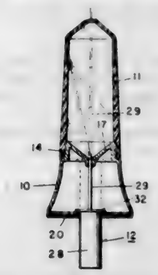


28. Apparatus for converting a substantially flat annular blank into a plurality of combs, each having a concavo-convex contour, comprising a pair of coacting dies, means yieldably supporting one die for limited bodily movement, said die having an annular support within which there is an annular ledge, and cutters spaced about the support with their cutting edges projectable into the annular support just above the annular ledge, the other die including a plunger and conforming ring bodily movable to and from the first die, said plunger having a vertically convex peripheral surface of such dimension as to fit into the annular support with a clearance space equal to the thickness of the blank, said conforming ring having an inwardly sloping inner wall of such diameter as to telescope over the outside of the annular support, and said plunger and ring being tandemly spaced so that upon bodily movement of the plunger and ring toward the support the plunger will seat against the ledge prior to movement of the ring into engagement with the support, means for effecting bodily movement of the plunger and ring to bring them successively into engagement with the work support and for thereafter moving them while seated against the work support to displace the work support bodily, displacement of said work support being operable to effect projection of the cutters inwardly into the support and downwardly substantially into engagement with the ledge.

2,531,300
DISPENSING CONTAINER
Henry C. Schloer, Greene, N. Y.
Application June 9, 1949, Serial No. 98,098
4 Claims. (Cl. 312—78)

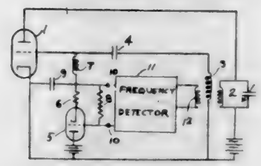
1. A dispensing container comprising a hollow base having an inverted cone-shaped top wall

provided with a central opening and a bottom closure provided with a central opening, an open-bottom shell having its lower end affixed to the upper portion of the base, the upper end of the shell being conical and having a central dispensing opening, and an ejector unit comprising a weighting element movable through and guided in the central opening of said bottom closure and an ejecting pin projecting upwardly therefrom and movable through and guided in the central



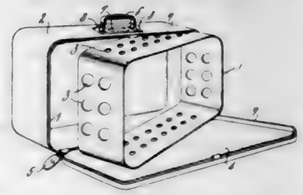
opening of said cone-shaped top wall, said ejector unit being retractable from a normal position within base and shell under the influence of the weight of the weighting element upon lifting the base from a supporting surface to a position in which the upper end of the ejecting pin recedes a slight distance into the central opening in said base top wall, and being returnable to said normal position upon said base being lowered onto said surface.

2,531,301
CIRCUIT ARRANGEMENT FOR FREQUENCY CONTROLS
Egbert Scholten, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 7, 1946, Serial No. 675,023
In Belgium February 8, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1965
6 Claims. (Cl. 250—36)



1. A circuit arrangement for varying the frequency of an oscillator in response to variations of a control voltage, comprising an oscillator tube having an anode, a control grid and a cathode, a resonant circuit coupled between the anode and cathode of said oscillator tube to determine the frequency of said oscillator, a coil inductively coupled to said resonant circuit, means coupling said coil between the grid and cathode of said oscillator tube to couple the grid in feedback relationship substantially 180° out of phase with respect to the anode of said oscillator tube, a variable impedance element coupled between the cathode and the control grid of said oscillator tube, and means responsive to said variations of said control voltage to vary the impedance value of said impedance element thereby to effect a shift in phase away from said 180° relationship and vary the frequency of said oscillator.

2,531,302
INTERCHANGEABLE FRAME STRUCTURE FOR SUITCASES
Franz Schwennicke, Brussels, Belgium
Application July 26, 1946, Serial No. 686,417
1 Claim. (Cl. 190—50)



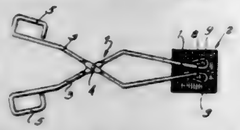
A suitcase and like piece of luggage comprising a flexible outer covering, the interior of said covering being defined by inner walls, a flanged closure wall hinged to said covering for closing the latter, and a box-shaped frame made of substantially rigid sheet material, said frame being slidably and removably engageable with said inner walls of said covering and including a projection extending beyond said inner walls of said covering, said flanged closure wall embracing said frame projection in closed position of said suitcase, whereby said frame, when inserted in the interior of said flexible covering props the latter, said box-shaped frame being provided with spaced perforations for reducing the weight of said frame, and removable means passing through the covering and engaging the frame at predetermined perforations thereof for holding in place on and securing to the outside of said covering a handle for carrying said suitcase.

2,531,303
WEIGHING APPARATUS
Elmer S. Scott, Dallas, Tex.
Application November 17, 1947, Serial No. 786,360
7 Claims. (Cl. 249—53)

1. In weighing apparatus of the type comprising a bucket mounted to move downwardly as material is deposited therein, said bucket having a top filling opening and a bottom discharge opening, means above the bucket for directing material into the bucket through the filling opening, a door carried by the bucket for closing the bottom discharge opening, and latch means carried by the bucket for releasably holding the door closed, means for releasing said latch means and permitting the door to open and discharge the contents of the bucket when the weight of said

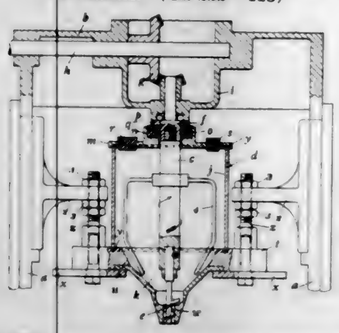
contents attains a predetermined value, said means comprising an actuating arm mounted adjacent and connected to the bucket for movement therewith, a rock shaft mounted above said actuating arm to rock about a horizontal axis, a trip arm carried by the rock shaft and movable therewith, means carried by the rock shaft to rock said shaft and move the trip arm into releasing engagement with the latch means, and a check arm mounted on the rock shaft for movement therewith in an arcuate path which lies in the path of movement of the actuating arm to prevent movement of the trip arm into releasing engagement with the latch means until the actuating arm passes below the arcuate path.

2,531,304
CLEANING IMPLEMENT
Louis Seewald, Amarillo, Tex.
Application October 23, 1945, Serial No. 623,922
4 Claims. (Cl. 15—209)



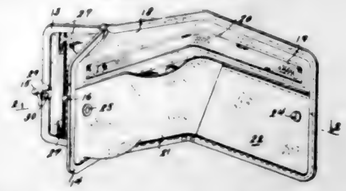
1. An implement of the class described for use with a swab including a central top flap, said implement comprising a handle forming pair of tongs having front ends adapted for gripping opposite sides of said flap, said front end comprising a pair of opposed depending clamping loops adapted for engagement with opposite sides of the flap, said loops terminating in lateral loops adapted for engaging the top of the swab upon opposite sides of said flap to stabilize the swab against turning relative to said clamping loops.

2,531,305
HOPPER VERTICALLY ADJUSTABLE FOR SEALING CONTACT WITH COVER
Arthur Ronald Smith, Birmingham, England
Application January 13, 1948, Serial No. 2,067
In Great Britain September 23, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires September 23, 1960
4 Claims. (Cl. 222—413)



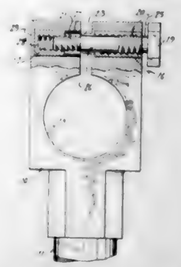
1. A filling machine of the kind specified, comprising in combination a frame-like body part having an upper cross member, a rotary spindle depending vertically from the cross member, a worm on the spindle, driving mechanism carried by the cross member for imparting rotary motion to the spindle, a hopper arranged beneath the cross member and provided with a supporting member, means for imparting vertical adjusting movement to the hopper through the medium of its supporting member, a cover piece closing the upper end of the hopper and provided with an aperture through which the spindle passes, and an annular sealing washer surrounding the spindle and compressible between the cover piece and cross member to form an air-tight seal between the spindle and cover piece in response to upward adjusting movement of the hopper.

2,531,306
COMBINED PURSE AND BILLFOLD
William H. St. Thomas, Gloversville, N. Y., assignor to St. Thomas Inc., a corporation of New York
Application November 14, 1949, Serial No. 126,976
3 Claims. (Cl. 150—35)



1. A combination purse and billfold comprising two flexible, substantially rectangular inner and outer wall forming members connected together to form an elongated bill pocket open at one end and having a longitudinal access opening at one side to provide for lateral insertion and removal of money bills; two substantially U-shaped inner and outer frame members hingedly connected together with each frame member secured to the open end of the corresponding wall forming member to provide a mouth closure; and a purse pocket within the open end of the bill pocket having an inner wall with its side edges secured to the legs of the outer frame member and with an upper free edge providing a mouth opening at one side of the open end of the bill pocket, said purse pocket being movable as a unit with said outer frame member when the frame members are opened.

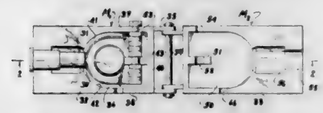
2,531,307
BATTERY TERMINAL CONNECTOR
William S. Thomas, Williamsport, Pa., assignor, by mesne assignments, to Peter Zayac, Johnson City, Joseph Marconi, Endicott, and Henry C. Schloer, Vestal, N. Y., a partnership
Application February 9, 1948, Serial No. 7,173
3 Claims. (Cl. 173—259)



1. In a battery terminal connector comprising a U-shaped body member of soft metal defining an opening for receiving the terminal post and

having a pair of clamping jaws, axially related bushings of hard metal embedded in the ends of said jaws, one of said bushings having a threaded blind-end bore and a smooth counterbore opening through the inner face of the jaw end embedding said bushing, the other bushing having an oppositely threaded bore extending substantially therethrough, a bolt having right and lefthand threaded sections in its end portions adapted to cooperate with the corresponding threads of said bushings for tightening and separating said jaws, and a smooth bushing of soft metal integral with and extending from the inner face of the jaw end embedding said other bushing and encircling an unthreaded intermediate portion of said bolt, said smooth bushing adapted to enter the counterbore in said one bushing when said clamping jaws are tightened.

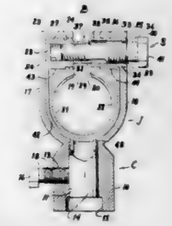
2,531,308
METHOD FOR MAKING BATTERY TERMINAL CONNECTORS
William S. Thomas, Williamsport, Pa., assignor, by mesne assignments, to Peter Zayac, Johnson City, Joseph Marconi, Endicott, and Henry C. Schloer, Vestal, N. Y., a partnership
Application October 19, 1948, Serial No. 55,359
2 Claims. (Cl. 29—155.55)



1. In the making of a battery terminal connector, the method comprising the steps of: (*a*) assembling a pair of oppositely threaded bushings on a screw stem with only a slight marginal portion of a reduced coaxial extension of one bushing telescoped into a smooth bore portion of the other bushing of substantially the same diameter and length as the extension of said one bushing, with said screw stem having a head on said stem spaced from said other bushing by a smooth cylindrical portion of said stem, (*b*) anchoring each end of a U-shaped reenforcing member to one of said assembled bushings by spot welding, (*c*) positioning said assembled bushings and stem together with said reenforcing member in one part of a two part mold with said extension fitting in a notch in a rib on said mold part and said smooth stem portion being received in a notch in a wall of said mold part whereby the remainder of said assembled bushings are maintained spaced from said mold part, (*d*) fitting a complemental mold part over said first mold part, and (*e*) casting an alloy about said bushings and reenforcing member to form the connector having jaws in which said bushings are embedded.

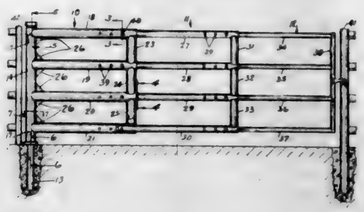
2,531,309
TERMINAL CONNECTOR
William S. Thomas, Williamsport, Pa., assignor, by mesne assignments, to Peter Zayac, Johnson City, Joseph Marconi, Endicott, and Henry C. Schloer, Vestal, N. Y., a partnership
Application October 19, 1948, Serial No. 55,360
3 Claims. (Cl. 173—259)

1. In a battery terminal connector comprising a U-shaped body member of soft metal defining an opening for receiving the terminal post and having a pair of clamping jaws, a bushing and reinforcing assembly embedded in said body member and including axially related bushings of hard metal embedded in said clamping jaws, one bushing having a reduced extension which extends towards the other bushing and being internally threaded for the length of its bore, the bore of the other bushing extending entirely through the same and being internally threaded in its outer length portion, the inner length portion of said last bore opening towards said one bushing and being threadless and of a size as



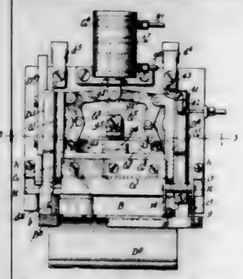
to telescopically receive with sliding clearance the reduced extension of said one bushing, the threads of said bushings being right and lefthand, respectively, a screw stem having right and lefthand threaded sections adapted to cooperate with the corresponding threads of said axially related bushings, and a U-shaped reinforcing member of spring metal partially encircling said opening and having legs permanently affixed at their ends to said bushings.

2,531,310
EXTENSIBLE GATE
Howard H. Tonn, Arvada, Colo., assignor to Spectro Manufacturing & Sales, Inc., Wheatridge, Colo., a corporation of Colorado
Application September 8, 1949, Serial No. 114,599
8 Claims. (Cl. 160—223)



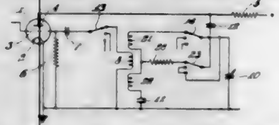
1. An extensible gate comprising; a first section having a vertical tube at one end thereof, a plurality of spaced horizontal tubes, each having one end thereof abutting the vertical tube, a vertical spacer tube extending between the horizontal tubes adjacent their other ends, welds at the junctures of the various tubes, a second section having a plurality of tubes telescopically engaged within the horizontal tubes of the first section, a vertical spacer tube extending between the last named horizontal tubes, adjacent the ends thereof remote from the telescoped portions, welds at the junctures of the last named horizontal tubes and the vertical spacer tube, means for securing the horizontal tubes of the two sections together in a desired extended position, and means supporting the gate at one end thereof for pivotal movement about a vertical axis.

2,531,311
EJECTING MECHANISM FOR SLUG CASTING MACHINES
Ransom H. Turner, Great Neck, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application March 20, 1947, Serial No. 735,988
3 Claims. (Cl. 199—60)



1. In a slug casting machine equipped with a mold and slug ejecting mechanism, said mechanism including, in combination, a reciprocable ejector slide, an ejector blade mounted for movement relatively to the ejector slide in the direction of the slug ejection, and intermediate power-multiplying connections whereby the blade, prior to the active stroke of the slide, is advanced relatively thereto sufficiently far to break the adherence of the slug to the side walls of the mold cavity.

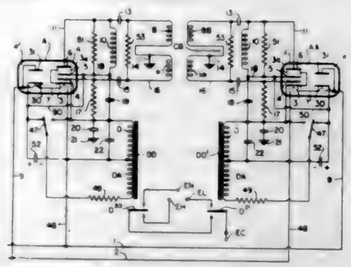
2,531,312
OSCILLATOR CIRCUIT ARRANGEMENT
Carel Jan van Loon, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 6, 1948, Serial No. 19,244
In the Netherlands April 9, 1947
5 Claims. (Cl. 250—36)



1. An oscillator circuit arrangement comprising an electron discharge tube having input and output electrodes, resonance circuit means comprising a first inductor element and a capacitance element, said first inductor element comprising first and second windings connected in series and spaced apart, a second inductor element interposed between said first and second windings and inductively coupled thereto, means to couple one of said electrodes to the junction of said first and second windings, and means to couple the other of said electrodes to said second inductor element in feedback relationship.

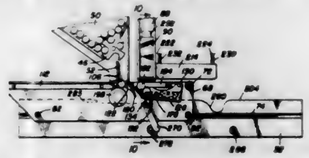
2,531,313
OSCILLATOR AND OSCILLATOR-CONTROLLED RELAY SYSTEM
William H. Wannamaker, Jr., Flourtown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 22, 1944, Serial No. 541,575
22 Claims. (Cl. 175—320)

1. Control apparatus comprising in combination, an electronic valve including a cathode, anode, control grid and screen grid, an impedance connecting said screen grid and anode, energizing current supply terminals, a pair of control coils each having one terminal connected to one terminal of the other, means connecting said coil terminals to said cathode, a condenser connecting the second terminal of one of said coils to said anode, means connecting the second terminal of the other of said coils to said control grid, means for varying the mutual inductance of said control coils between first and second values at which oscillations are respectively established and interrupted in said control coils, a load device, and a series connection from one to the other of said supply terminals including a connection from one of said supply terminals to said screen grid and through said impedance to said anode, said cathode, and said load device to the other of said supply terminals.



7. Control apparatus comprising a first thermionic valve having an input electrode included in an input circuit, an output electrode included in an output circuit, a common electrode common to both of said circuits, and a heating element, a second thermionic valve having an anode, a cathode, and a heating element, a pair of supply terminals adapted to be connected to an alternating current supply line, a load device having a first operating portion, a second operating portion, and control means jointly controlled by said operating portions, a load circuit including said output circuit and said first operating portion connected in series between said terminals and operative to pass unidirectional current through said first operating portion and said output circuit and hence to energize said first operating portion, a circuit operative to energize said second operating portion independently of said output circuit at a predetermined value and including said anode, said cathode, and said second operating portion connected in series between said terminals, conductors connecting said heating elements in series between said terminals, an impedance device connected in a feedback circuit between said input and output circuits to form an oscillator circuit, said feedback circuit being operative to feed back electrical energy from said output circuit to said input circuit under the control of said impedance device, adjustable means operable to vary the impedance of said impedance device between a value in which said feedback circuit is operative to cause oscillation of said oscillator circuit and a value in which oscillation of said oscillator circuit is prevented, a bias impedance included in said input circuit and operative to vary the energization of said first operating portion in accordance with the oscillation or non-oscillation of said oscillator circuit and hence in accordance with the adjustment of said impedance device to cause said first operating portion to be energized at a value which is below said predetermined value when said oscillator circuit is oscillating and which is substantially equal to said predetermined value when said oscillator circuit is not oscillating, and safety means included in said load device and operative to cause said control means to assume one condition when said oscillator circuit is oscillating and said operating portions are unequally energized, to assume a second condition when said oscillator circuit is not oscillating and said operating portions are substantially equally energized, and to assume said second condition when neither of said operating portions is effectively energized.

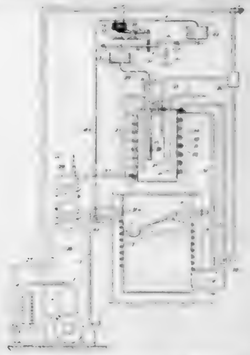
2,531,314
DEVICE FOR APPLYING SHEET MATERIAL TO CYLINDRICAL ARTICLES
Francis C. Worth, Brooklyn, N. Y.
Application May 31, 1949, Serial No. 96,367
18 Claims. (Cl. 216—45)



2. A device for fixing labels to substantially cylindrical surfaces of articles comprising a frame and a carriage disposed on said frame, means operatively connected with said carriage for horizontally reciprocating said carriage, an article supporting nest provided in said carriage, a roller carried by said carriage forming the bottom of said nest to accommodate an article, a label magazine carried by said frame and disposed above the nest in the carriage, means secured to said carriage for applying a cementitious product to the bottom label in the magazine while the carriage is being moved, the bottom label being in the path of travel of the cylindrical surface so that the bottom label together with the cementitious product thereon is applied on the cylindrical surface, a cam on said frame, and means connected to said roller and located on said cam to raise and lower said roller in response to the shape of the cam, said cam being so shaped as to raise the means connected to the roller and thereby raise the roller forming the bottom of the nest after an article has been deposited thereon and when the article has approached the bottom label thereby assuring firm engagement of the label and surface.

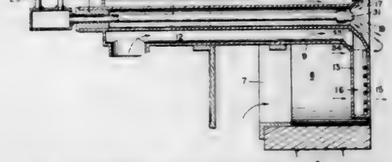
2,531,315
LIQUID COOLING APPARATUS
John Wyllie, Jr., deceased, late of Detroit, Mich., by Margaret B. Wyllie, executrix, Detroit, Mich., assignor to Temprite Products Corporation, Detroit, Mich., a corporation of Michigan
Application August 8, 1946, Serial No. 689,249
5 Claims. (Cl. 62—7)

1. In liquid cooling apparatus, the combination of a liquid precooler comprising a liquid chamber and a refrigerant expansion chamber in heat-absorbing relation thereto; an instantaneous type liquid cooler comprising conduit means providing a definite path for the flow of liquid to be cooled and a refrigerant expansion chamber associated with the conduit means; means for conducting liquid from the precooler to the instantaneous cooler to replace liquid drawn from the latter; a motor-driven refrigerant condensing unit; refrigerant conduit means for conducting liquid refrigerant from the discharge of the condensing unit to the refrigerant chamber of the instantaneous cooler; means for controlling the passage of refrigerant through the said conduit, said means being responsive to change of pressure in the refrigerant expansion chamber of the instantaneous cooler; means for conducting refrigerant from the expansion chamber of the instantaneous cooler to the expansion chamber of the precooler and from the latter chamber to



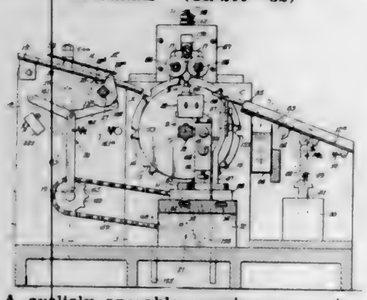
the intake of the condensing unit; and means for starting and stopping the refrigerant condensing unit responsive to the temperature of the liquid discharged from the instantaneous cooler to start the unit and responsive to the temperature of refrigerant discharged from the precooler to stop the unit.

2,531,316
MULTIPLE FUEL BURNER
John S. Zink, Tulsa, Okla.
Application August 9, 1946, Serial No. 689,575
2 Claims. (Cl. 158—11)



1. In a multiple fuel burner, a spider including hollow radially disposed arms, each of said arms having discharge ports therein, a frusto-conical wall having a base portion and an apex portion, a conduit joining the apex portion of the frusto-conical wall, said base portion of the frusto-conical wall being connected to said hollow arms, an auxiliary burner head having ports therein spaced rearwardly of the base portion of the frusto-conical wall and substantially aligned with the apex portion of the frusto-conical wall, means extending through said conduit for supplying fuel to the auxiliary burner, means closing the conduit preventing air from moving through the conduit to the presence of the auxiliary burner, a fuel supply tube surrounding said conduit in spaced relation, and an annular flared portion carried by said tube surrounding the apex portion of the frusto-conical wall in spaced relation and joining said hollow arms for supplying fuel thereinto.

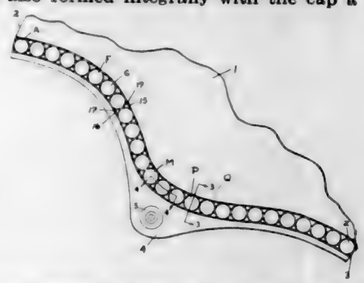
2,531,317
SHAFT CONCENTRICITY TESTING AND ASSORTING MACHINE
Harry N. Baney, Louis Allen Cooper Slentz, Arlo A. Kirkpatrick, and Charles E. Brickley, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 2, 1948, Serial No. 12,514
12 Claims (Cl. 209—82)



1. A cyclicly operable gauging apparatus for gauging the cylindrical surfaces of articles including a rotary article-receiving conveyor capable of being periodically indexed and adapted upon successive indexing operations thereof to receive the articles at a receiving station, convey them to a gauging station, and from thence convey them to a discharge station, a feed chute at the receiving station, gauging means at the gauging station, a discharge chute at the discharge station for receiving the gauged articles, means for periodically indexing said conveyor whereby an article at the receiving station will be conducted to the gauging station while an article at the latter station will be simultaneously conducted to the discharge station and deposited in said discharge chute, an article support positioned at the gauging station in the path of movement of the articles and onto which said articles move upon arrival at the gauging station, means operable upon initiation of each indexing operation for releasing an article from the feed chute and depositing the same on the conveyor, said gauging means comprising a gauging unit cooperating with said support for gauging the article at the gauging station, a continuously rotatable friction roller movable toward and away from said support into and out of engagement with an article at said gauging station, and means operable upon each indexing operation of the conveyor for bodily moving said roller away from said support and out of engagement with an article at the gauging station to permit the article to be conducted to the discharge station and for thereafter bodily moving said roller toward said support and into frictional engagement with the next succeeding article arriving at the gauging station for rotating the same during the gauging operation.

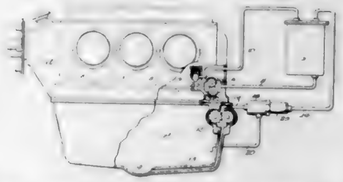
2,531,318
BATHING CAP
Raymond T. Blesh, Wadsworth, Ohio, assignor to Seiberling Latex Products Co., Akron, Ohio, a corporation of Ohio
Application February 9, 1948, Serial No. 7,040
4 Claims. (Cl. 2—68)

1. A one-piece rubber bathing cap having formed integrally therewith on the inner surface near the border a series of substantially circular cups to hold the cap to the head of the wearer, the walls of the cups being so thin that when the cap is worn the edge of each cup flexes outwardly on contact with the head of the wearer and forms a water seal therewith, adjacent cups being united to one another without intersecting to prevent the passage of water between them, and also formed integrally with the cap a wall



located between the edge of the cap and at least a portion of each of the cups, the wall being so thin that when the cap is worn it flexes on contact with the head of the wearer and prevents water from passing thereunder and contacting said portions of the cups.

2,531,319
ENGINE LUBRICATING APPARATUS
Arthur T. Briggs, Williamsport, Pa., assignor to AVCO Manufacturing Corporation, a corporation of Delaware
Application January 19, 1945, Serial No. 573,521
6 Claims. (Cl. 184—6)



1. The combination with a lubricating system for engines which comprises means for distributing oil under pressure to the parts to be lubricated, a sump which receives oil from the distributing means, and a scavenging pump connected to draw fluid from the sump; of a valve including a casing connected to receive fluid discharged by the pump and to return oil to the distributing system, and a piston; a by-pass between the casing and the sump controlled by the piston, the piston being operable by the pressure of liquid from the pump for shifting it to close the by-pass and having a restricted port for the flow of fluid therethrough, and a spring for shifting the piston to open the by-pass and of such force that it will permit the piston to be shifted by the pressure of liquid from the pump and will shift the piston to open the by-pass when air or vapor is delivered by the pump.

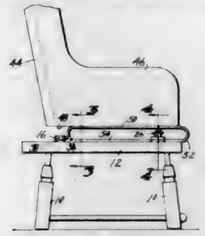
2,531,320
RUST REMOVING
Thomas E. Burkhardt, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Original application September 25, 1940, Serial No. 358,327. Divided and this application March 28, 1947, Serial No. 738,013
2 Claims. (Cl. 252—135)

1. The process of removing adherent rust from iron and steel surfaces which consists of immersing said surfaces for a sufficient length of time to remove the rust in an aqueous solution consisting essentially of about 10 oz. of tetrasodium pyrophosphate per gallon of water and an acid sufficient to reduce the pH value between 9 and 7.

2,531,321
ELECTRICAL RESISTOR AND METHOD OF MAKING SAME
Joseph J. Cerny, Chicago, Ill.
Application June 28, 1948, Serial No. 35,714
12 Claims. (Cl. 201—67)

1. A resistor for electrical circuits or the like, a core; a resistance wire wound around said core; a terminal circuit wire mounted on each end of said core and projecting outwardly therefrom; and an end portion of one end of each circuit wire bent back and extending outwardly from said core, said end portions being parallel to said circuit wires and spaced slightly therefrom, said end portions cooperating with said circuit wires providing means for anchoring the opposite ends of said resistance wire.

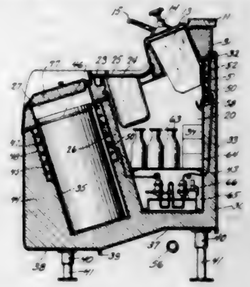
2,531,322
DETACHABLE CHAIR BASE
Joseph S. Cohen, Great Neck, N. Y., assignor to Chairtown Manufacturing Company, Gardner, Mass., a corporation of Massachusetts
Application January 31, 1949, Serial No. 73,700
6 Claims. (Cl. 155—39)



1. A device of the class described comprising a chair seat and a detachable back and arm rest assembly, a latch and a bracket located in spaced relation on the seat, and a strap on the back and arm assembly, said strap having an end insertable in said bracket and an aperture to receive the latch for detachable securement of the back and arm assembly to the seat.

2,531,323
REFRIGERATION CABINET
William S. Connell, Norwood Park Township, Cook County, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application July 26, 1946, Serial No. 686,287
9 Claims. (Cl. 62—89)

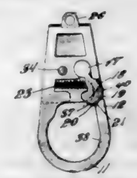
1. In an elongated ice cream cabinet having insulated bottom and side walls defining a refrigeration space, a partition extending longitudinally the length of the cabinet to separate said space into a front compartment and a rear compartment as determined from the work side of the cabinet, means for supporting a plurality of doors for closing the top of said front compartment, and means for supporting a second plurality of doors of said rear compartment, the top of said partition extending over said first mentioned doors and said first mentioned doors being inclined downwardly towards the front of said compartment.



2,531,324
PREPARATION OF ALKYLATED AROMATIC HYDROCARBONS AND SULFONATION THEREOF
John Q. Cope, El Cerrito, and John W. Scott, Jr., Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 18, 1947, Serial No. 780,758
6 Claims. (Cl. 260—450)

1. A process which comprises passing a fraction of the reaction product of a Fischer-Trospch synthesis boiling in the range about 300° F. to 600° F. through a mass of solid adsorbent conforming substantially to silica gel in its adsorptive properties at a temperature substantially below that at which cracking occurs to separate an adsorbate and a percolate, segregating a fraction of the percolate which has flowed from the adsorbent mass when the bromine number of the effluent percolate is at approximately its maximum value and alkylating a mononuclear aromatic hydrocarbon with at least a portion of the segregated fraction.

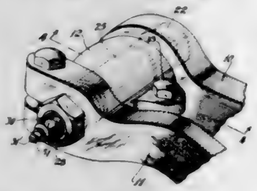
2,531,325
KEY HOLDER
Frederick De Cesaris, Johnston, R. I., assignor to James Manufacturing Co., Inc., a corporation of Rhode Island
Application March 20, 1947, Serial No. 735,840
1 Claim. (Cl. 70—459)



A key holder comprising, a relatively rigid frame having a curved shank with a free end to be passed through an opening in a key for positioning the same thereon, said frame having a recess in a portion spaced from said free end formed by a wall on the arc of a circle and of an extent greater than half of a circle, and a latch having a head of a shape corresponding to the shape of the recess rockable in said re-

cess to move to and from engagement with said free end, resilient means urging said latch against said free end but compressible to permit said latch to be swung away from said free end, and a cap having walls fitted over said frame and covering said recess and head and resilient means to retain said parts in assembled position.

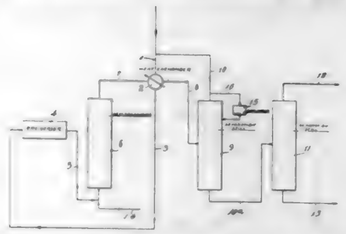
2,531,326
ADJUSTABLE AUTOMOTIVE UPPER CONTROL PIN
Gerard R. Di Paolo, North Arlington, and Joseph A. Anzovino, Elizabeth, N. J., assignors to Regal Tool & Mfg. Co., Inc., East Newark, N. J., a corporation of New Jersey
Application April 10, 1948, Serial No. 20,178
2 Claims. (Cl. 287—100)



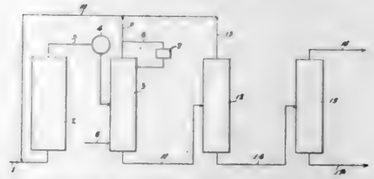
1. An upper control pin for use in an automotive assembly for connecting the split bearing of a steering knuckle support to a pair of shock absorber arms, said bearing being internally threaded and normally tending to open to enable the pin to be rotated therein and having means to tighten the bearing on the pin therein to hold the latter against rotation, the shock absorber arms having bushings provided with internally threaded portions, said pin having an eccentrically disposed medially threaded portion adapted to have complementary threaded engagement with the internally threaded split bearing and having threaded end portions to have complementary threaded engagement with the threaded portions of the bushings, one of said bushings being open throughout its length, the threaded end portion of said pin which threadedly engages said bushing having a terminal polygonal headpiece thereon, said threaded end of the pin and the headpiece being of greater axial length than said bushing so that the polygonal headpiece will, on assembly of the parts, project through said bushing for facility of engagement by a tool, whereby the split bearing tightening means may be released and the polygonal pin headpiece engaged and rotated to provide caster and camber adjustment of the steering knuckle support until the pin has been rotated to the desired degree for caster and camber adjustment purposes, whereupon the bearing may be re-tightened.

2,531,327
PROCESS FOR THE PRODUCTION OF VINYL XYLENES
William E. Elwell, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application July 1, 1948, Serial No. 36,355
8 Claims. (Cl. 260—669)

1. The method of producing methyl and dimethyl vinyl benzenes polymerizable to vinyl benzene polymers having heat distortion points in excess of 80° C. by catalytic dehydrogenation of orthoethyltoluene and ethyl xylenes having a methyl group in ortho relationship to the ethyl group which comprises catalytically dehydrogenating one part by weight of a material from the group consisting of orthoethyltoluene, 2,3-dimethyl 1-ethylbenzene, 2,4-dimethyl 1-ethylbenzene, 2,5-dimethyl 1-ethylbenzene and 2,6-dimethyl 1-ethylbenzene together with at least four parts by weight of an isomer of at least one member of said group having only meta and para relationships between its methyl and ethyl groups.



2,531,328
PROCESS FOR PRODUCING INDENES
William E. Elwell, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application July 1, 1948, Serial No. 36,356
12 Claims. (Cl. 260—668)



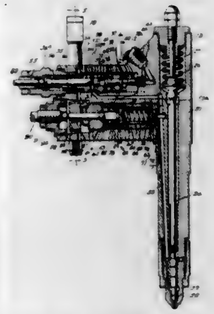
1. A process of producing indenes and methyl homologs thereof, by catalytic dehydrogenation which process comprises subjecting a member of the group consisting of ortho ethyl toluene, 2,3-dimethyl 1-ethyl benzene, 2,4-dimethyl 1-ethyl benzene, 2,5-dimethyl 1-ethyl benzene, and 2,6-dimethyl 1-ethyl benzene to catalytic dehydrogenation so as to produce a corresponding substituted vinyl product and indene compound and separating the indene compound from the reaction products.

2,531,329
CHEESE MODIFYING ENZYME PRODUCT
Merle G. Farnham, Calhoun Farms, Wis.
No Drawing. Application September 27, 1946, Serial No. 699,635
17 Claims. (Cl. 195—63)

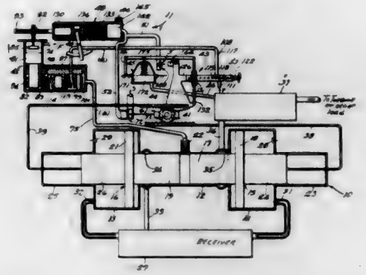
1. An enzyme composition obtained from the edible head and neck tissues of at least partially milk-fed mammals and including a lipolytic and a proteolytic enzyme for hydrolyzing glycerides and proteins.

2,531,330
FLUID ACTUATED INJECTION MEANS
Louis J. Garday, Glenview, and Robert A. Lasley, Chicago, Ill., assignors, by mesne assignments, to Louis G. Simmons, Chicago, Ill.
Application October 11, 1945, Serial No. 621,720
18 Claims. (Cl. 103—44)

1. The combination with a source of fluid under substantially constant pressure, of a cylinder, means in said cylinder forming a movable wall dividing said cylinder into two chambers, means for filling said two chambers with fluid from said source at a reduced pressure, means for applying the pressure of said fluid source on one side of said wall to move said wall and eject fluid from one of said chambers, and stop means for limiting the amount of movement of said wall during fluid ejection.

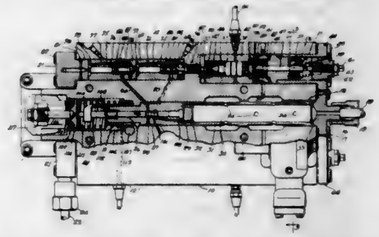


2,531,331
FREE PISTON ENGINE FUEL CONTROL
Louis J. Garday, Glenview, Ill., assignor, by mesne assignments, to Louis G. Simmons, Chicago, Ill.
Application October 22, 1947, Serial No. 781,426
17 Claims. (Cl. 123—46)



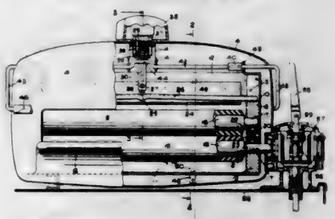
1. Gas generating apparatus comprising a motor cylinder, a pair of compressor cylinders respectively disposed at opposite ends of said motor cylinder, a pair of free pistons each including a motor piston portion and a compressor piston portion movable between combustion and scavenging positions, each of said free pistons being arranged with the compressor piston portion thereof in a compressor cylinder and with the motor piston portions thereof facing each other in said motor cylinder and defining a combustion chamber for supplying gas under pressure, means for synchronizing the movement of said pistons, means for returning said pistons from scavenging positions to combustion positions, a receiver for the combustion gases, injection means operative when said pistons are at combustion position for injecting fuel into said combustion chamber, means responsive to the pressure in said receiver for varying the timing of said fuel injection, governing means for determining the amount of fuel injected by said injection means, and means responsive to the position of said pistons at the scavenging end of piston movement for varying the amount of fuel determined by said governing means.

2,531,332
FLUID ACTUATED INJECTION MEANS
Louis J. Garday, Glenview, Ill., assignor, by mesne assignments, to Louis G. Simmons, Chicago, Ill.
Application October 22, 1947, Serial No. 781,427
16 Claims. (Cl. 103—44)



1. A fluid operated fluid injector comprising a body including a passageway therein adapted to be connected to a source of fluid under pressure at one end and forming a discharge opening at its other end, a pair of movable valve bodies for opening and closing said passageway at two points, means for subjecting each of said valve bodies to opposed fluid pressures derived from said source of fluid, differential areas on each of said valve bodies responsive to said opposed fluid pressures to hold each of said valve bodies in a closed position, and means for simultaneously relieving the fluid pressure from one area of each of said valve bodies while exerting fluid pressure on the other area of each of said valve bodies whereby said valve bodies move to open positions.

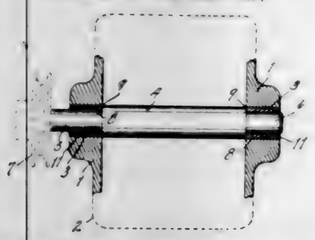
2,531,333
WRINGER
Richard Lutz Gold, Erdington, Birmingham, England
Application July 11, 1947, Serial No. 760,244
In Great Britain June 22, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 22, 1966
4 Claims. (Cl. 68—263)



1. A wringer comprising a frame, a pair of parallel rollers mounted for rotation in the frame, a housing slidably mounted in said frame, said housing being parallel to the rollers, an operating screw mounted on said frame and adapted to move said housing in a vertical plane, said operating screw comprising a handle, mounted externally of the wringer frame, and an externally threaded sleeve, a nut secured to the inside of the upper side of said frame, said externally threaded sleeve being adapted to move in said nut, an external flange on the lower end of said sleeve adapted to engage the lower face of said nut whereby upward movement of said sleeve is limited, locking nuts secured to the upper portion of said sleeve and adapted to engage the upper side of the frame whereby downward movement of said sleeve is limited, a spring

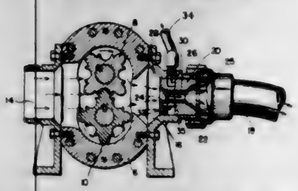
mounted in a stressed condition in said housing and projecting from the ends thereof, an abutment mounted in the center of said housing, and bearings for said rollers mounted in said frame, the stress of said spring being initially absorbed by the end portions of said housing and by the abutment in the center thereof, and the ends of said spring resting lightly on said bearings, the stress of said spring being transferred from the ends of said housing to said bearings when the housing is advanced through a small distance towards the rollers, whereby only a small movement of said housing imparts full pressure to said bearings.

2,531,334
ALIGNED BEARING ASSEMBLY
John J. Grenat, Detroit, Mich.
Application October 31, 1949, Serial No. 124,611
5 Claims. (Cl. 308—15)



1. The combination with bearing supports having aligned cylindrical bearing openings therein, a shaft provided with journals, and bearing sleeves rotatably receiving and supporting said journals, said sleeves having axially restricted portions thereof at one end in initially tiltingly supported engagement with the bearing openings and being externally tapered from such restricted portions, the annular spaces between the tapered portions of the sleeves and the walls of the bearing openings being filled with material fixedly supporting the sleeves in aligned position.

2,531,335
NO-LOAD SPEED GOVERNOR
Francis A. Harvey, Bellevue, Wash., assignor to Pacific Marine Supply Company, Seattle, Wash.
Application April 25, 1947, Serial No. 743,773
3 Claims. (Cl. 103—1)

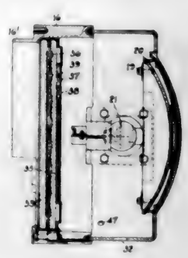


1. A no-load speed governor for high-speed internal combustion engines used for driving high-speed pumps, consisting of: a constrictor element insertable in the discharge side of the pump and adapted to produce back pressure on the pump, said constrictor member having an axial bore of greater cross-sectional area than the nozzle normally used with the pump, but less than the normal discharge cross-sectional area of the pump, and means for drawing fluid from the pressure side of the pump for use in cooling the internal combustion engine.

2,531,336
RECOVERY OF NICKEL AND COBALT COMPOUNDS
Robert C. Hills and Maurice F. Dufour, Nicaro, Cuba, assignors to Nicaro Nickel Company, New York, N. Y., a corporation of Delaware
No Drawing. Application March 18, 1946, Serial No. 655,372. In Cuba September 23, 1944
6 Claims. (Cl. 23—61)

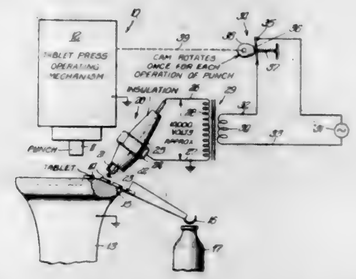
1. In the recovery of nickel from technical ammoniacal leach solutions containing nickel and cobalt compounds and the usual impurities including at least one of sulfur, selenium, and tellurium, the process of obtaining the nickel content substantially free of cobalt which comprises converting said named impurities, by oxidation, into a form which does not inhibit the oxidation of the cobaltous compounds present into the cobaltic state, oxidizing the cobaltous content to the cobaltic state in said ammoniacal leach solution, distilling ammonia from said solution until the nickel content precipitates out from the solution containing the cobaltic compounds still in solution, and separating the precipitated nickel compound from the said solution.

2,531,337
POLYCHROME BEAM LIGHT SIGNAL
James W. Knapp, Brockport, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application January 3, 1944, Serial No. 516,815
4 Claims. (Cl. 177—352)



1. A light projecting signal for giving a polychrome beam for defining a course comprising, a light projecting lens having a plurality of parallel convex flutes each having a principal focus outside the signal, a light source of finite dimensions, a reflector for concentrating light from said source to be projected by said lens into a narrow main beam along the axis of the signal, two filters of complementary colors for each flute located in the path of the light passing through that flute from said reflector, one of said color filters determining the color of the light passing through one portion of its flute to provide a narrow beam of one color on one side of the optical axis of said flute, the other of said color filters determining the color of the light passing through the other portion of its flute to provide a narrow beam of light of the other color on the other side of the optical axis of said flute, said reflector and flutes cooperating with the finite dimensions of the light source to divert some of the light rays passing through the central portion of each of said flutes away from its principal focus and provide a partial overlapping of the beams of different colors from such flute and its color filters, said overlapping portions of said different colored beams constituting a divergent beam of coalescing colors much narrower than the main beam of the signal and providing the visual effect of a color distinctive from either of the colored beams alone, whereby the beam of overlapping and coalescing complementary colors defines a narrow path along the axis of the signal having a visual aspect of color distinctive from the different observable colors on the respective opposite sides of such path and enabling an observer to determine his relative position in the main beam of the signal.

2,531,338
STATIC NEUTRALIZER FOR TABLET PRESSES
Frederick A. Lobley and James A. Foster, Elkhart, Ind., assignors to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application June 15, 1948, Serial No. 33,174
7 Claims. (Cl. 18—16)

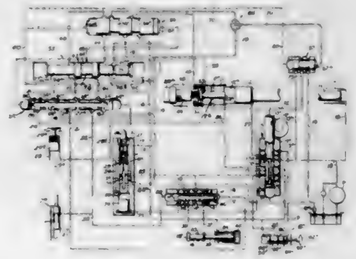


1. In combination, a tablet press having mechanism for forming tablets and a slide down which the tablets move after being formed for packaging in a container or the like and along which they are likely to stick as a result of their acquiring an electrostatic charge, electrode means in insulated spaced relation providing an air gap adjacent said slide at a location where each tablet starts to move down the same, circuit means for connecting said electrode means for energization to a source of high voltage to cause an electrical discharge across said air gap and thereby dissipate said electrostatic charge from the adjacent tablet whereupon it moves freely down said slide, switch means interposed in said circuit means, and mechanism operatively interconnecting said tablet forming mechanism and said switch means for operating the latter to cause said electrical discharge each time that a tablet is formed.

2,531,339
METHOD OF PREPARING ELECTRON-EMISSIVE COATING MATERIALS
Erwin F. Lowry, Lynn, and Horace H. Homer, Arlington, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
No Drawing. Application July 30, 1948, Serial No. 41,717
8 Claims. (Cl. 250—27.5)

1. The method of preparing electron-emissive material powder which comprises co-precipitating a solution of a soluble salt of zirconium and at least one alkaline earth metal and a solution of ammonium carbonate; washing the precipitate; filtering the precipitate; and drying the precipitate.

2,531,340
HYDRAULIC MECHANISM
Max A. Mathys, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application January 8, 1944, Serial No. 517,541
18 Claims. (Cl. 121—45)



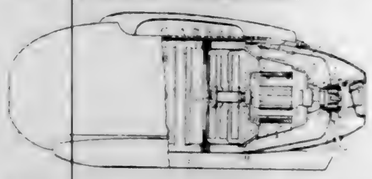
1. In a hydraulic system for effecting a step-by-step relative movement of a pair of members, the combination of a piston and cylinder type fluid actuator, means for withdrawing metered increments of fluid from the cylinder to effect successive steps of advance of the piston within the cylinder, means including a movable stop for intercepting the advance of the piston, means for adjustably limiting movement of said stop both toward and away from the piston in the direction of piston travel, means for urging said stop to its limit of movement toward the piston, and means responsive to completion of the advance of the piston forward into juxtaposition with said stop for freeing the stop for movement to its opposite limit position under the thrust of the piston in a subsequent and final step of advance of the latter, whereby the setting of the limit positions of the stop by said adjustable limit means determines the length of said final step of advance for the piston.

2,531,341
FRICTION MECHANISM WITH CLEARANCE ADJUSTER
Robert H. Meador, Jr., Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application April 16, 1946, Serial No. 662,502
9 Claims. (Cl. 188—72)

1. In apparatus for mounting a spot type brake on a hollow boss formed on a flange adapted to be secured to an axle housing, inner and outer brake plate members, a sleeve hav-

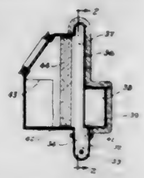
ing a reduced outside diameter for a length at one end thereof, said sleeve being positioned in and protruding from the boss on the flange for sliding movement therein, means securing said inner and outer brake plate members and said sleeve together to form a unit, a collar secured to the reduced diameter section of said sleeve and extending into said boss, a plurality of annular members positioned on the reduced diameter section of said sleeve at the inner end thereof and in tight friction contact with the bore of the boss, and a belleville spring confined between the inner end of said collar and the end member of said annular members, said belleville spring being flattened by movement of the unit made up of said sleeve and brake plate members on brake application and being adapted to move at least one of said plate members to a "free run" position when the brake is released.

2,531,342
VACUUM CLEANER
Harry E. Metz, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application March 31, 1947, Serial No. 738,247
3 Claims. (Cl. 230—127)



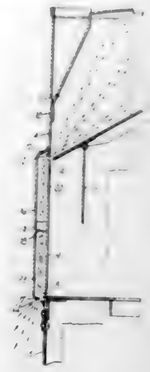
1. In a vacuum cleaner of the tank type, a cylindrical outer housing, a fan assembly for causing a flow of air through said housing, an electric motor for driving the fan assembly having a frame comprising perforate front and rear forwardly facing cup portions, said front cup portion having perforations directed inwardly and outwardly of the motor and said outer housing being spaced from the peripheries of said cup portions, a housing for the fan assembly arranged to direct the flow of air to the front cup portion of the motor frame, and a baffle extending around the frame between the peripheries of said cup portions of the motor frame forming an enclosed air passageway betwen said cup portions, whereby the motor operating temperature is reduced.

2,531,343
MANUFACTURE OF DRIED EGG MATERIAL
William J. Patterson, La Grange, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application December 11, 1944, Serial No. 567,757
3 Claims. (Cl. 209—3)



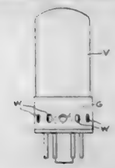
1. An apparatus for cooling heated powdered material comprising an elongated screw conveyor, an elongated housing surrounding said conveyor and providing a chamber thereabove, means for feeding said material to said conveyor, an exhaust duct mounted above said housing for a substantial portion of the length thereof and providing a second chamber elongated in a vertical direction in direct communication with said first-mentioned chamber, an air inlet duct mounted above and to one side of said housing, a plurality of nozzles spaced along the length of said first-mentioned chamber, means including said inlet duct and projecting downwardly into a blower, a dehydrator and a cooler connected to said inlet duct for supplying a cooling gas having a low moisture content to said inlet duct and to said nozzles, said nozzles being so arranged as to direct blasts of said gas against said material being conveyed by said conveyor so as to blow mists of at least a portion of said powdered material into said first-mentioned and second-mentioned chambers to produce an intimate mixture of said gas and said powdered material whereby said material is cooled and dehydrated, and means for discharging said cooled material from said housing.

2,531,344
AIR FEEDING AND COOLED FURNACE FRONT STRUCTURE
Thomas H. Polad, Dowagiac, Mich., assignor to Rudy Furnace Company, Dowagiac, Mich.
Application November 5, 1947, Serial No. 784,233
6 Claims. (Cl. 110—180)



5. In combination with a furnace comprising a combustion chamber closed at the top by a dome and provided with a front wall having a charging door opening, of a door for said opening comprising outer and inner panels spaced to provide a vertical flue coextensive with the width of the door, the door having air inlet openings from the exterior of the door to said flue at the bottom thereof and an air discharge opening at the top of the inner panel thereof delivering to the interior of said combustion chamber, and a downwardly and forwardly inclined baffle spaced from the dome of the combustion chamber and disposed with its front edge adjacent but below the air discharge opening of said door so that the air is discharged from the door flue above said baffle, said baffle and said front wall of the combustion chamber being spaced and forming a passageway disposed to direct air leaving said discharge opening towards the dome of the combustion chamber.

2,531,345
TELLTALE ELECTRIC TUBE AND COMBINATION THEREOF
Gail B. Rickard, Molalla, Oreg.
Application September 7, 1948, Serial No. 48,103
1 Claim. (Cl. 250—27.5)

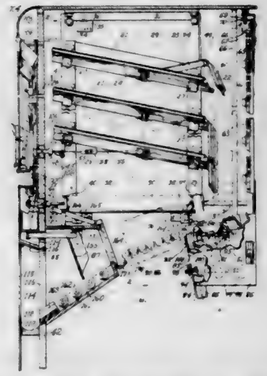


In a radio receiving set a vacuum tube comprising a glass envelope, a cathode heating means mounted within said envelope and having its two terminals sealed into and protruding through to the outside of said envelope, a cup shaped insulating tube base into which said envelope is fixed for permanent support, tube terminals fixed in said base and extending therethrough, the inner end of two of said tube terminals being respectively connected within said base to the protruding terminals of said cathode heating means, a glow tube and a resistance mounted inside said base and outside said envelope, said glow tube and resistance being connected in series across said terminals of said cathode heating means, and translucent means formed in said base whereby the glow from said tube may penetrate to the outside of said base.

2,531,346
BUILDER'S HOIST
Oakey Schuchert, Iowa City, Iowa
Application July 12, 1947, Serial No. 760,560
10 Claims. (Cl. 187—2)

1. A builder's hoist including a mast comprised of a plurality of separably connected one piece sections, means for connecting together adjacent ends of said sections, a lift movably supported on said mast for up and down movement, a hoist mechanism carried on said mast, a cable supporting unit adapted for detachable connection with either end of a section and carried on the upper end of the top section of said mast, a cable adapted to travel over said unit and operatively associated with said hoist mechanism and lift, means independent of said hoist mechanism for holding said lift in an elevated position against downward movement to provide for an additional mast section being carried upwardly on said lift for assembly with the upper mast section to extend said mast, and means connectible with said sections and a structure being built to support said mast in an upright position.

2,531,347
MERCHANDISE DISPENSING APPARATUS
Max Hermann Voigtritter, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application February 11, 1946, Serial No. 646,861
4 Claims. (Cl. 312—48)

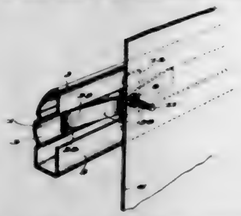


1. A dispensing mechanism for round articles comprising plurality of spaced superimposed shelves for said articles, a vertical discharge channel for said articles, said shelves sloping downwardly towards said channel whereby said articles tend to roll into said channel, a gate at the end of each shelf arranged to be held closed by the articles in the channel and arranged to open when the portion of the channel opposite the gate is free of articles whereby the articles previously restrained by the gate are free to roll into the channel as articles are removed therefrom, conveyer means in said channel in parallel spaced relation to the closed gates, said shelves being sloped also in their transverse direction, and an abutment along the low side of each shelf against which the articles tend to abut, said conveyor means and said gates being located with a slight obliquity to the transverse direction of the shelves and making a slightly acute angle with the low sides of the shelves, so as to locate the articles on the shelves with similar obliquity whereby the articles tend to roll down the shelves and away from their abutments and tend to slide transversely into engagement with the abutments, thereby substantially reducing the friction between the articles and the abutments while the articles are rolling down the shelves.

2,531,348
TURNABLE T-MEMBER TYPE MOLDING FASTENER
Robert R. Amesbury, Wellesley, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application August 3, 1946, Serial No. 688,210
4 Claims. (Cl. 24—73)

1. A molding fastener adapted to be preliminarily mounted in a hollow molding provided with spaced inturned flanges, said fastener comprising a bolt having a head, an elongated cross-member mounted on said bolt adjacent said head and having a width less than the space between the inturned flanges of said hollow molding, a resilient thrust member mounted on said bolt between said head and cross-piece, said thrust member having opposed resilient arms thereon extending angularly outward with respect to said

cross-member and axially with respect to said bolt, means retaining said cross-member and thrust-member in mounted position on said bolt, at least one of said members being rotatable with respect to said bolt whereby said thrust member and cross-piece may be placed in alignment, in-



serted into a slot in a molding between spaced inturned flanges thereof with the thrust member in tensioned engagement with the interior of the molding, and the cross-member then turned to engage the inner surfaces of the inturned flanges to secure the fastener to the molding.

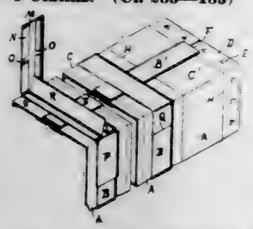
2,531,349

AIR DUCT CONSTRUCTION

Lewis P. Brett, Fort Wayne, Ind., assignor to A. B. C. Sheet Metal Co., Inc., a corporation of Indiana

Application March 3, 1948, Serial No. 12,701

9 Claims. (Cl. 285—185)



1. An air duct structure consisting of a series of alined duct sections formed of folded sheet metal strips provided with protruding latches arranged in a series adjacent each end of the duct sections and along the marginal opposing ends of the strips of which said sections are formed, connectors for coupling the opposing ends of said sections having engagement with the corresponding latches on the end portions thereof, other similar connectors securing the opposing marginal ends of the strips of which the sections are formed, supporting means for the duct having inturned flanges provided with intermittent slots, and engageable selectively with the connectors, and cleats formed of other strips having outwardly extending backfolded flanges by which the cleats are selectively secured to said connectors.

2,531,350

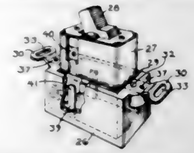
RECEPTACLE FOR A SWITCH

John Chrastina, Decatur, Ill., assignor of twenty-four and one-half per cent to William Diefenthaler and twenty-four and one-half per cent to Clifford C. Poarch, both of Decatur, Ill.

Application June 27, 1947, Serial No. 757,585

2 Claims. (Cl. 200—51)

1. In an electric apparatus, the combination of an outlet box adapted to be mounted in a wall or panel and having openings therein through which electrical power leads enter, a dielectric receptacle mounted in said outlet box, a unitary switch element carried in said receptacle and a cover plate for the several elements, means for mounting said receptacle on the face of the outlet box and the electric power leads on the outside of receptacle, electrical conducting means entering from the outside of the receptacle into the interior thereof, and a switch unit insertable through the face of the outlet box and



into the receptacle mounted thereon, said switch element having outside dimensions of the inside dimensions of the receptacle and electrical contact means which slidably engage the electrical contact means on the inside of the receptacle and a cover plate having an aperture therein through which projects the switch operating element, and means for securing the cover plate to the outlet box and thereby retaining the switch element within into the receptacle.

2,531,351

T-HEAD MOLDING FASTENER WITH TENSIONING MEMBER

Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application October 8, 1946, Serial No. 701,870

6 Claims. (Cl. 24—73)

1. A fastener member comprising a shank having a squared portion and a threaded nut-receiving portion, an elongated plate non-rotatably secured to said squared portion and provided with molding-engaging portions at opposite ends thereof for engaging the inner surfaces of a molding, and an elongated resilient thrust member non-rotatably secured to said squared portion and having contact portions spaced from the plane of said plate, said plate and thrust member being turnable as a unit about the axis of the shank.

2,531,352

TURNABLE T-MEMBER TYPE MOLDING FASTENER

Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application February 1, 1947, Serial No. 725,911

3 Claims. (Cl. 24—73)

3. A molding fastener comprising a support-engaging member, a molding-engaging head

secured adjacent one end thereof and disposed in a plane generally normal to the axis of said shank, said head being of one-piece construction and including an elongated plate body connected to said shank, lateral extensions integrally connected to opposite side edges of said body adjacent the ends thereof, and a pair of resilient molding-contacting arms connected to said extensions, said arms extending toward opposite ends of said body at acute angles to the surface thereof in planes substantially parallel to said edges.

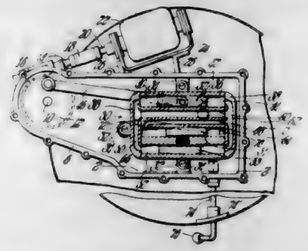
2,531,353

OPERATING MECHANISM FOR WASHING MACHINES AND THE LIKE

Louis E. Deloghia, Agawam, Mass., assignor to Perkins Machine and Gear Company, West Springfield, Mass., a corporation of Massachusetts

Application December 13, 1944, Serial No. 567,912

3 Claims. (Cl. 60—54.5)



1. Mechanism for oscillating the agitator of a washing machine alternately back and forth through variable angles adapted to be secured to a lower wall of a washing machine tub comprising in combination, a closed housing construction for securing to said wall having a compartment therein, a casing in said compartment provided with a drive bore and a pair of independent driven bores separate therefrom and having separate displacement and control passageways, one of said displacement passageways connecting one end of said drive bore with one end of one of said driven bores and with an opposite end of the other driven bore and another of said displacement passageways connecting the opposite end of said drive bore with opposite ends of said driven bores, a control passageway connecting opposite ends of said drive bore, a drive piston reciprocable back and forth in said drive bore for displacing fluid through said control and displacement passageways, a drive shaft rotatable in said housing, connections between said drive shaft and drive piston whereby said piston is reciprocated by rotation of said shaft through a certain stroke to alternately displace fluid from opposite ends of the drive bore, driven pistons in said driven bores adapted for reciprocation back and forth in opposite directions accordingly as the drive piston is reciprocated to displace fluid through said displacement passageways alternately and simultaneously into the driven bores and against opposite ends of the driven pistons, a driven shaft for an agitator oscillatable in said housing, operative connections between said shaft and said driven pistons for oscillation of the former by reciprocation of the latter, and adjustable valve means in said control passageway for controlling the flow of fluid therethrough whereby the displacement of fluid acting on the driven pistons is controlled for varying the angle of agitation of said driven shaft.

2,531,354

INSECTICIDAL COMPOSITION COMPRISING HEAT-TREATED HEXAETHYL TETRAPHOSPHATE

Michael N. Dvornikoff, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 28, 1947, Serial No. 731,702

9 Claims. (Cl. 260—461)

1. An improved insect toxicant comprising the pyrolysis product of hexaethyl tetraphosphate having a specific gravity in the range of 1.30 to 1.35, a viscosity in excess of that of a hexaethyl tetraphosphate and a solubility in xylene ranging from slightly soluble to insoluble, said product being derived by heating hexaethyl tetraphosphate at a temperature in the range of 145° C. to 160° C. for a period of time in the range of 2–5 hours, ethylene being evolved during said heating period.

2,531,355

PARA-VINYLBENZYL COMPOUNDS

William S. Emerson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 22, 1946, Serial No. 678,673

8 Claims. (Cl. 260—89.1)

1. The compounds having the formula:

where R is selected from the group consisting of —H and

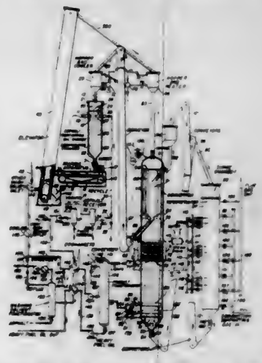
2,531,356

HYDROCARBON CONVERSION PROCESS

Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application September 27, 1947, Serial No. 776,472

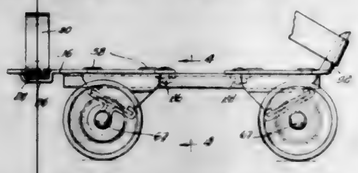
20 Claims. (Cl. 196—52)



1. A method for conversion of asphalt containing liquid hydrocarbon feeds at elevated temperatures which comprises: contacting the asphalt containing feed with a porous particle-form contact material having the structure of an inorganic oxide gel, in which the total macropore volume is less than about 30 per cent of the total pore volume and in which the particles are substantially all larger than about 30 mesh, at

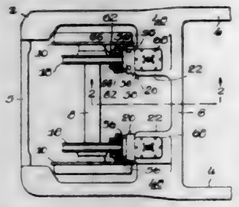
a temperature below about 500° F., whereby the oily constituents of said feed are sorbed in the pores of said contact material while the asphalt constituents remain substantially unsorbed; effecting a substantial separation of the contact material bearing sorbed oily constituents from the unsorbed material and heating said contact material to a temperature suitable for the desired conversion of said oily constituents.

2,531,357
ROLLER SKATE
Neil M. Foulds, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application June 29, 1948, Serial No. 35,873
6 Claims. (Cl. 280—11.19)



1. A skate structure comprising toe and heel plates, an elongated channel-shaped bar adjustably connecting the toe and heel plates, a hanger connected to and depend from each of said plates, said hanger including opposed side walls and an elongated intermediate bottom plate disposed at a downwardly inclined angle with respect to said toe and heel plates, an axle carrier comprising a one-piece sheet metal member bent to provide an elongated, substantially U-shaped bottom portion having an inner wall curvature at its bottom corresponding to the peripheral curvature of the axle to be held therein, the opposed walls of said U-shaped bottom portion extending upwardly from the curved bottom portion thereof in inwardly curved formation and thence in outwardly curved opposite directions to provide plate-like extensions lying in a common plane, each of said extensions terminating in oppositely and inwardly curved upper clamping flanges disposed generally parallel to and spaced from said extensions, said clamping flanges clampingly engaging opposed edges of the intermediate plate-like member of the hanger.

2,531,358
ROTOR TYPE RAILWAY BRAKE
Wesley A. Heisten, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 7, 1946, Serial No. 652,646
16 Claims. (Cl. 188—59)



1. In a brake arrangement for a railway truck comprising spaced wheel and axle assemblies and a unitary truck frame supported from said assemblies and including side members and a transversely extending element adjacent each assembly and integrally connected to said members, the combination of spaced rotors on each assembly, a housing integral with each element adjacent each rotor, a gusset at one side of each housing comprising an upright portion connected to the housing and adjacent element for resisting torque loads on the housing, each gusset having another portion integral with the first-mentioned portion, the adjacent element, and side member and effective to resist lateral loads on the associated housing, actuating means mounted in each housing and removable through the top thereof, and means carried by each housing for engagement with the adjacent rotor, each of said means including levers operatively associated with the adjacent actuating means and rotor and pivoted to the associated housing.

2,531,359
ACTIVATOR SOLUTION FOR MACHINELESS HAIR-WAVING PADS
Harry W. Mace, Glendale, Calif., assignor to Samuel O. Ronk and Louise R. Hunter, both of Burbank, Calif.
No Drawing. Application January 31, 1948, Serial No. 5,689
10 Claims. (Cl. 132—36.2)

1. An activator solution for use with a normally water-activated machineless hair waving pad, said solution comprising a polyoxyethylene glycol having an average molecular weight ranging between about 1000 and about 7000 in an amount ranging between about 5% and about 20% by weight based on the weight of the total solution, ammonium chloride in an amount varying between about ½% to about 8% by weight based on the weight of the total solution, aluminum chloride in an amount varying between about 2½% to about 10% by weight based on the weight of the total solution and water in an amount varying between about 60% and about 90% by weight based on the weight of the total solution.

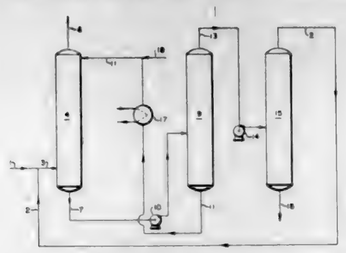
2,531,360
FERTILIZER BLOCK FOR FERTILIZING PLANT LIFE IN FISHING WATERS
Arthur Herbert Martin, Montreal, Quebec, Canada, assignor to Canadian Industries Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application February 26, 1947, Serial No. 731,053. In Canada September 27, 1946
3 Claims. (Cl. 71—64)

1. A process for the production of a coherent solid fertilizer block which consists in subjecting a mixture of 100 parts of ammonium phosphate, 35 parts of ammonium nitrate, 40 parts of muriate of potash and 20 parts of granular dolomitic limestone intimately admixed with 5 parts of cyanamide as a binder to a pressure of about 15,000 lbs. per square inch.

2,531,361
RECOVERY OF CHLORINATED HYDROCARBONS
Frank L. Padgitt, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
Application January 11, 1950, Serial No. 137,921
9 Claims. (Cl. 183—115)

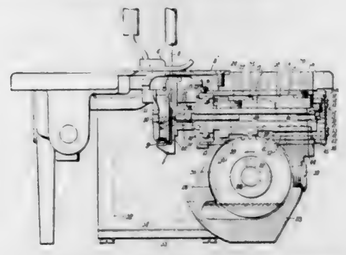
1. The process of recovery of a chlorinated aliphatic hydrocarbon from admixture with an alkane hydrocarbon comprising contacting said

mixture with an alkyl carboxylic acid and selectively absorbing the chlorinated hydrocarbon and



thereafter separating the chlorinated hydrocarbon from the alkyl carboxylic acid.

2,531,362
LUBRICATING DEVICE FOR SEWING MACHINE LOOP TAKERS
Frank Parry, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 13, 1948, Serial No. 20,743
11 Claims. (Cl. 112—256)



1. In a sewing machine, a rotary shaft having a longitudinal bore; a loop-taker carried by one end of said shaft and having a thread-carrier raceway; lubricant conducting connections between said bore of the shaft and said raceway, said bore being open at the end of said shaft opposite said loop-taker; lubricant-conduit means for delivering oil into the open bore end of said shaft; pump-means connected to supply lubricant into said lubricant-conduit; a lubricant by-pass duct connected with said lubricant-conduit and leading away from the bore of said shaft; and means for regulating the flow of lubricant through said by-pass duct.

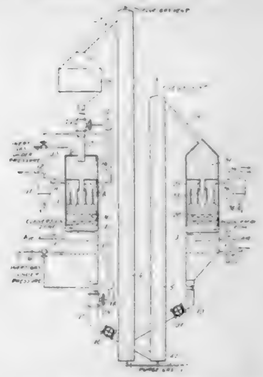
2,531,363
MAKING DIALKYL ACETIC ACIDS AND RELATED COMPOUNDS
Earl L. Pelton and Andrew A. Holzschuh, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application January 3, 1949, Serial No. 69,038
3 Claims. (Cl. 260—540)

1. The method for the production of di-alkyl acetic acids which consists essentially in heating a γ-alkyl saturated linear alkyl carboxylic acid with a fused alkali metal hydroxide at a temperature from 370° to 430° C., and recovering the di-alkyl acetic acid from the reaction mixture.

2,531,364
MIXTURES OF POLYVINYL ETHERS WITH PHENOL-ACETYLENE RESINS
Ivy V. Runyan, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 25, 1946, Serial No. 664,976
9 Claims. (Cl. 260—45.5)

1. A composition of matter consisting essentially of a mixture of from 5% to 95% of a solid rubber-like homopolymer of a vinyl ether of a lower alkanol and from 95% to 5% of a toluene soluble resinous condensation product of a phenol with at least an equivalent molecular proportion of acetylene.

2,531,365
SYSTEM FOR CONDUCTING CONVERSIONS IN THE PRESENCE OF A CONTACT MASS
Thomas P. Simpson and John W. Payne, Woodbury, N. J., and John A. Crowley, Jr., New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application October 4, 1946, Serial No. 701,222
7 Claims. (Cl. 196—52)



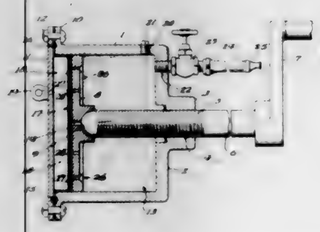
1. In a process for continuously catalytically converting fluid hydrocarbons in the presence of particle-form solid catalyst wherein the catalyst is moved downwardly through a conversion zone operating under pressure as a substantially compact column of particles and the fluid hydrocarbons are passed under conversion conditions into contact with said catalyst in said conversion zone and wherein active catalyst particles are introduced to said zone near the top thereof in order to maintain said column of catalyst in said conversion zone the improvement which comprises: introducing the active catalyst particles into said conversion zone from a substantially compact stream of catalyst particles maintained above said conversion zone which stream forms a continuous body of catalyst with said column and which is of such cross-sectional area and vertical length above said zone as to insure gravity flow of catalyst at the required rate into said conversion zone against the gaseous pressure therein, said compact stream being further of such cross-sectional area and length that the quotient of the two-thirds power of the stream length in feet divided by the cross-sectional area of said stream in square feet is less than

$$1.6\times10^{4}\frac{De^{0.78}S^{0.60}P^{0.70}}{CVSZ^{0.3}}$$

in which L is the stream length in feet, A is the

stream horizontal area in square feet, De is the average diameter of the contact material particles in inches, S is the density in pounds per cubic foot of gas of composition of the gaseous material in the upper section of said conversion zone at the average pressure and temperature in said stream, Z is the viscosity in centipoises of said gaseous material under the same conditions, P is the pressure differential between the lower end and upper end of said stream in pounds per square inch, C is the rate of contact material flow in said stream in cubic feet per hour, V is the fraction of voids in the flowing contact material in said stream, whereby the entrainment of gas by the catalyst through said stream into said conversion zone is precluded; supplying catalyst to the upper end of said stream and maintaining the gaseous pressure adjacent the upper end of said stream substantially below the gaseous pressure in said conversion zone.

2,531,366
PORTABLE FOG TYPE FIRE EXTINGUISHER
Lawrence H. Smith, Chicago, Ill., assignor to Victor M. Langsett, Chicago, Ill., as trustee
Application March 17, 1945, Serial No. 583,357
10 Claims. (Cl. 169—31)



1. A self-contained portable fire extinguisher comprising a casing, a diaphragm in said casing forming a compressed gas chamber, said diaphragm adapted to be expanded, said casing including a chamber adapted to contain liquid against which the diaphragm exerts a pressure, a piston arranged in said casing, said piston having a passage therethrough, and means to move said piston and said diaphragm to a predetermined position after expansion of the diaphragm, and a discharge outlet from the liquid containing chamber.

2,531,367
N-(SUBSTITUTED SULFONYL)-AMINOBENZOIC ACIDS
James M. Sprague, Drexel Hill, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application July 15, 1947, Serial No. 761,153
2 Claims. (Cl. 260—518)

1. Compounds of the formula:

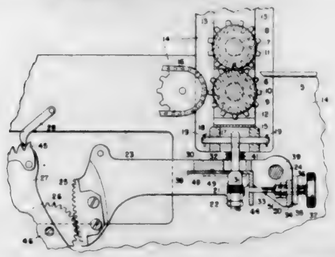
$$R_1CH_2SO_2NHR_2COOH$$

in which R_1 is selected from the class consisting of hydrocarbon and dialkyl ether radicals having a total of from 3 to 7 carbon atoms, phenyl, aminophenyl, nitrophenyl, halophenyl, and benzyl, and R_2 is selected from the class consisting of benzene and thiazole.

2,531,368
SHOCK ABSORBER
Carl E. Tack and Fred E. Bachman, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 30, 1944, Serial No. 543,020
2 Claims. (Cl. 267—64)

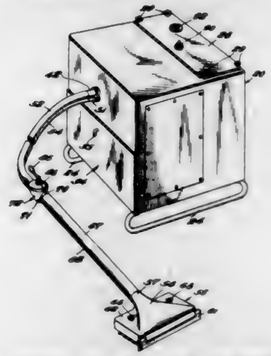
1. In an hydraulic shock strut, a cylindrical follower, a hollow piston reciprocal therewithin, a plunger tube connected to the follower and arranged coaxial therewith and extending through the head of said piston and in fluid tight engagement therewith, said piston having a cylindrical chamber receiving said plunger tube therein, a plunger head connected to said tube and reciprocal within said piston chamber, said plunger head dividing said piston chamber into two axially spaced portions, one of said portions being disposed between the head of the piston and said plunger head, said plunger head having a plurality of ports therethrough, valve means formed and arranged to close said ports during extension of said strut and to open said ports during closure of the strut, said valve means comprising a plate and a plurality of spring washers disposed within said one portion of said piston chamber, said plate being adapted to seat against said plunger head to close the ports and said washers being arranged in a pile in shouldered engagement with the tube and reacting against said plate for urging said plate against said plunger head to the closed position thereof, passage means through said tube communicating with the other portion of said piston chamber, and radial passageways through said tube communicating with said passage means and with said one portion of said piston chamber, said piston chamber, passage means and passageways having all of the available spaces filled with fluid, said passageways being disposed immediately adjacent the end washer of the pile remote from the plate, said fluid during closure of said strut being accommodated flow from said other portion of said piston chamber to said one portion thereof through said passage means and passageways and co-incidentally through said ports by unseating said plate and flexing said washers, said fluid during closure of said strut issuing across the end washer and thus resisting flexure of said washers and opening of said valve means, and a gas spring acting between said follower and piston.

2,531,369
CAMLESS REGULATOR FOR GRADING DEVICES
Charles C. Thomas, Medford, Mass., assignor to North American Research Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 19, 1948, Serial No. 34,031
5 Claims. (Cl. 33—147)



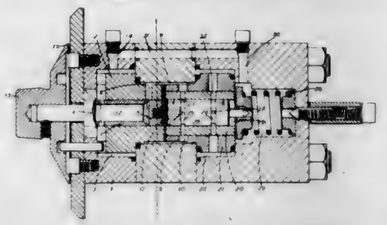
5. In a grading machine having a movable detector roll and a lever for transmitting the motion of the roll to other mechanisms; a pair of slides spaced apart and mounted on said lever adjustably in its longitudinal direction; a pair of correspondingly spaced connecting rods connected by universal joints to said slides; a connection between said roll and said rods slidable in said longitudinal direction; and a mechanical lock for securing said slides in a desired position on said lever.

2,531,370
LIQUID DISCHARGING AND COLLECTING APPARATUS FOR CLEANING
Lyman F. Thompson, Fayetteville, Ark.
Application September 13, 1945, Serial No. 615,937
2 Claims. (Cl. 15—321)



2. In a suction mop, a source of liquid, a source of liquid soap, a waste receptacle, a mophead, a mixing and control valve carried by the mophead, a tube carried by the mophead and connected to the mixing side of the valve, said tube having a discharge adjacent the rear of the mophead, a tube connected to the mixing side of the valve and to the source of liquid, a second tube connected to the source of soap and to the mixing side of the valve, a suction nozzle carried by the mophead opposite the discharge of the tube, a suction tube connected to the suction nozzle and the control side of the valve, a suction pump near the waste receptacle, said suction pump having its discharge directed toward the waste receptacle, a suction conduit connected to the control side of said valve and to the suction pump and means operatively associated with the suction pump and simultaneously operative therewith to maintain the liquid and the liquid soap under pressure.

2,531,371
VARIABLE THROTTLE VALVE
John Maurice Towler, Thruscross, Summerbridge, near Harrogate, and Frank Hathorn Towler, Dob Park, near Otley, England, assignors to Electraulic Presses Limited, Rodley, England
Application March 1, 1945, Serial No. 580,416
In Great Britain January 26, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 26, 1965
7 Claims. (Cl. 137—144)



2. A variable throttle valve for hydraulic systems, comprising an outer valve member, an inner valve member relatively rotatable within said outer valve member and consisting of a tube having an outlet and an open end, said end having its wall thickness reduced interiorly to form a thin circular edge, an abutment member opposing said thin circular edge, means for pressing said abutment member against said thin circular edge to effect a fluid tight sealing contact therebetween, a narrow transverse slot in said inner valve member between said abutment member and said thin circular edge cut back in the latter along a portion of its peripheral length, and a wide transverse slot in the wall of said outer valve member for a portion of its peripheral length and so situated therein that the full width of said narrow slot is in registration with said wide slot axially of said valve members, an effective area for the passage of liquid being provided by registering portions of said two slots, said effective area being controllable by partially rotating one of said valve members relatively to the other to vary the effective length of said registering portions of said two slots.

2,531,372
TRIFLUOROBROMOMETHANE
Herbert Waterman, Los Angeles, Calif.; Beatrice Joy Waterman, executrix of said Herbert Waterman, deceased, assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application December 8, 1945, Serial No. 633,857
3 Claims. (Cl. 260—653)

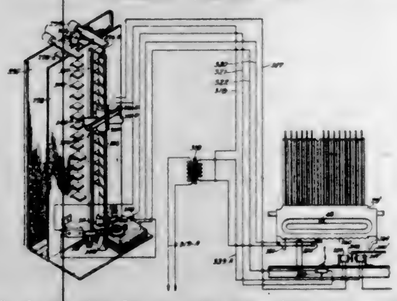
1. The compound, trifluorobromomethane, having the formula, CF_3Br.

2. The method of preparing trifluorobromomethane comprising heating a mixture of carbon tetrabromide, antimony trifluoride and bromine to a temperature of 180°–220° C. under a pressure of 60–80 pounds gauge for a period sufficient to form trifluorobromomethane and recovering the trifluorobromomethane.

2,531,373
PROCESS OF REFRIGERATION
Herbert Waterman, deceased, late of Los Angeles, Calif., by Beatrice Joy Waterman, executrix, Los Angeles, Calif., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Original application December 8, 1945, Serial No. 633,857. Divided and this application February 28, 1949, Serial No. 78,887
2 Claims. (Cl. 62—178)

1. The process of transferring heat comprises condensing trifluorobromomethane and then evaporating the trifluorobromomethane in the vicinity of a body to be cooled.

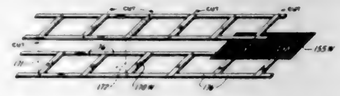
2,531,374
SELECTOR MECHANISM FOR AUTOMATIC PHONOGRAPHS
Edward F. Andrews, Chicago, Ill., assignor, by mesne assignments, to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application August 9, 1943, Serial No. 497,920
7 Claims. (Cl. 274—10)



1. A selector for remote operation of an automatic selector type phonograph having a movable member the direction of motion of which and its position determines the selection to be played and an electric motor for moving said movable member; electrical contact means adapted to send periodic electrical impulses when said movable member moves, a remotely positioned movable selector member, electric motor means adapted to be actuated step by step by said electrical impulses for moving said selector member in synchronism with the movable member, a plurality of displaceable elements adapted to contact said selector member when displaced, manually operable means adapted when actuated to energize said electric motor, electromagnetic means adapted to stop said movable member when energized, and electrical contact means on said selector member adapted to energize said electromagnetic means to stop said movable member when said electric motor means has moved said selector member into contact with a displaced element.

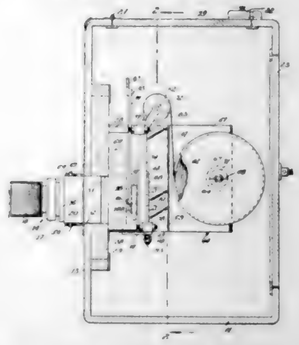
2,531,375
MANUFACTURE OF FRAMED PANELS
Carl J. Delegard, Chicago, and Michael J. Nardulli, Elmwood Park, Ill., assignors to Michael J. Nardulli, Angelo F. Naples, Peter F. Nardulli, and William H. Mozal, as trustees, under a trust known as Western Engineering Trust
Original application June 9, 1947, Serial No. 753,586. Divided and this application January 11, 1949, Serial No. 70,243
11 Claims. (Cl. 154—118)

1. The method of producing a framed panel which consists in disposing a first set of rectangular half-thickness side frame elements in the plan-form desired in the frame, disposing panel material across the partial frame thus formed and in an overlapping relation to at least a portion of the upper surfaces of said frame elements, dis-



posing a second set of rectangular half-thickness side frame elements over said first set in an endwise displaced relation to afford lapped corner joints, and adhesively securing the opposed surfaces of said sets together and to the interposed border portions of said panel material.

2,531,376
PHOTOGRAPHIC CAMERA HAVING MEANS FOR FEEDING A PLURALITY OF FILM STRIPS
Samuel W. Langdon, Rochester, N. Y., assignor, by mesne assignments, to Marks & Fuller, Inc., a corporation of New York
Application October 30, 1944, Serial No. 561,129
9 Claims. (Cl. 95—31)

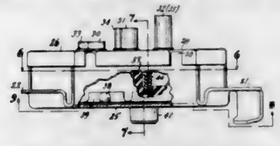


1. In a camera which has at least two strips of light sensitive material, in combination, means including a movable feed element for feeding each of said strips, a manually operated element, a fixed stop associated with each of said movable feed elements, means between said manually operated element and said movable feed elements for actuating either of said movable feed elements when its associated stop is out of holding position, and means for shifting each of said strips into and out of an exposure position, said shifting of the feed elements automatically engaging the feed element of the strip out of exposure position into engagement with its associated stop.

2,531,377
ELECTRIC SWITCH
John W. Lawson and William E. Brown, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application July 22, 1948, Serial No. 40,196. Divided and this application July 19, 1949, Serial No. 107,357
3 Claims. (Cl. 200—16)

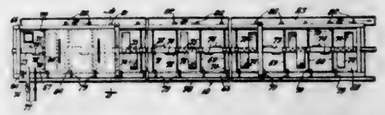
2. A switch comprising a U-shaped housing having a yoke and side arms, said yoke having an opening, a carrier comprising an elongated body of non-conducting material loosely positioned between the arms of the housing, means

for spacing the body from yoke and arms and guiding the body in parallelism with the arms from a medial position to positions on opposite sides of the medial position, a closure attached to the arms, a first and second row of stationary contacts supported by the closure, three biased movable contacts carried by the body, two of said contacts being formed to provide contact portions capable of engaging two stationary contacts in the first row and a single contact in the second row while the third movable contact engages only the contacts in the second row and said contact portions being spaced so



that when the switch is in its normal position all of the stationary contacts of the second row will be bridged by the third movable contact, and when the body is moved to one side of the normal position one of said contacts capable of engaging contacts of both rows of stationary contacts will bridge two contacts of the first row and one contact of the second row while the second contact of the same type will engage only one contact of the first row and vice versa, and said third contact will engage two contacts of the second row.

2,531,378
APPARATUS FOR COOKING SOLIDS IN LIQUIDS
Bronson C. Skinner, Dunedin, Fla.
Application January 7, 1948, Serial No. 1,046
3 Claims. (Cl. 99—348)

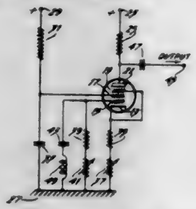


1. Apparatus for cooking solids in liquids comprising, in combination, an elongated structure having an intake end and a point of discharge distant therefrom, a plurality of partitioning means dividing said structure into a series of successively arranged compartments with each being so constructed as to provide for overflow passage of flowing mixture from compartment to successive compartment at certain levels, means to supply solids and cooking liquid at the intake end to cause a mixture thereof successively and progressively to collect in and overflow from compartment to compartment of the series thereof for substantially continuous passage through the structure during a prolonged cooking period, means in each compartment to agitate the mixture collected therein, and means in each compartment to supply heat to the mixture collected and agitated therein.

ABSTRACTS OF APPLICATIONS

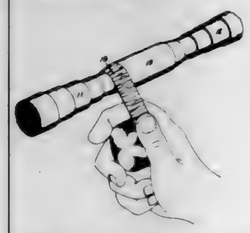
Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

594,401. **OSCILLATORS.** Howard J. Heim, West Lafayette, Ind., assignor to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana. Filed May 18, 1945. Published Nov. 21, 1950. Class 250—36. 1 sheet of drawings. 5 pages of specification.



The subject matter disclosed in this application relates to an oscillator of the relaxation type. The tank circuit of the oscillator comprises essentially the condenser **43** and the inductance **49**. An adjustment of either of these parameters will effect the frequency of the oscillator. The duration of the pulses produced by the oscillator may be altered by varying the resistance **41**. The wave form of the pulses produced by the oscillator may be altered by altering the cathode resistance **37**.

607,833. **GAS FILLED ELECTRIC CABLE.** Edward M. Flynn, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York. Filed July 30, 1945. Published Nov. 21, 1950. Class 174—21. 1 sheet of drawings. 11 pages of specification.

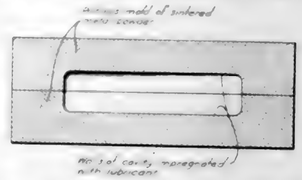


A cable joint for electric cables comprising a connector interconnecting the insulated ends of a pair of conductors the insulation of which is respectively reduced in steps from full insulation to no insulation adjacent the connector and layers of crepe paper tape impregnated with insulating material and wrapped under tension over both the connector and the irregular surfaces of the stepped insulation of each conductor to form a dense and compact mass of insulation having high dielectric strength.

664,668. **MOLDS FOR PLASTICS.** Earl E. Ziegler, Midland, and Frederick E. Dulmage, Saginaw, Mich. Filed Apr. 24, 1946. Published Nov. 21, 1950. Class 18—47. 1 sheet of drawings. 7 pages of specification.

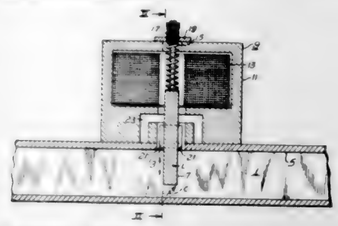
Porous molds for the compression and injection-molding of synthetic resins are made of sintered iron or other metal powder. Such molds exhibit reduced tendency to cause sticking of the molding as compared to conventional non-porous molds machined from solid metal.

Further improvement in releasability may be produced by impregnating the walls of the mold



with a mold lubricant. A liquid organo-siloxane polymer is the most satisfactory lubricant. The internal surfaces of the mold may advantageously be chromium-plated without sealing off the porosity.

694,044. **SWITCHING DEVICE FOR WAVE-GUIDE TRANSMISSION SYSTEMS.** Waldon Pearson Bollinger, Haddonfield, and Justin Edgar Hill, Jr., Morristown, N. J., assignors to Radio Corporation of America, a corporation of Delaware. Filed Aug. 30, 1946. Published Nov. 21, 1950. Class 178—44. 1 sheet of drawings. 8 pages of specification.



The device disclosed comprises an improvement upon the movable vane type of microwave switch wherein a substantially closed system is provided which effectively prevents microwave leakage from the waveguide transmission system. A relatively thick vane is selectively interposed across the wave path, and is electrically insulated from and capacitively coupled to the waveguide walls insofar as microwave currents are concerned. The movable vane is relatively thick in the direction of wave propagation, so that such propagation around the edges of the vane is substantially entirely attenuated through the resultant cut-off waveguide sections at the vane edges. The transverse dimensions of the vane and its degree of maximum penetration into the waveguide are so proportioned that the resultant inductance of the vane and its capacity to the waveguide walls comprise a series-resonant circuit which is effectively connected in shunt with the wave propagation system. Such a series-resonant circuit effectively short-circuits wave propagation through the waveguide system and provides reflection of substantially all wave energy propagated therethrough.

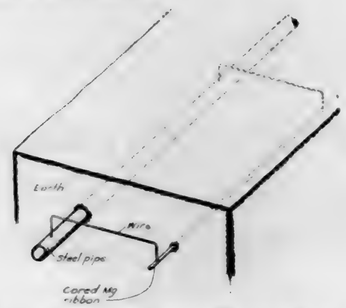
The penetration of the movable vane into the waveguide may be controlled by means of a simple solenoid device actuated by an external source of

current, and the degree of maximum penetration may be made adjustable to vary the series-resonant characteristics of the vane for different propagated frequencies.

The vane **7** is relatively thick along the axis of wave propagation within the waveguide and its edges are spaced from the waveguide walls by insulating guides **21** to prevent erratic electrical contact between the movable vane and the waveguide walls. The transverse dimensions of the movable vane **7** are proportioned to provide the required inductance for series resonance with the propagated microwave frequency for the position of maximum penetration of the vane within the waveguide. The effective capacitance between the edges of the vane and the adjacent waveguide walls at the position of maximum penetration thus is varied by adjustment of the adjusting screw **17**. In order to minimize microwave leakage through the gap in the solenoid structure **9** a quarterwave trap **23** is provided in the magnetic structure **11** adjacent to the opening **3** in the waveguide wall.

In operation, when the solenoid winding **13** is deenergized, the helical spring **15** projects the movable vane **7** to its position of maximum penetration within the waveguide system, as determined by adjustment of the adjusting screw **17**. The screw **17** is adjusted to tune the switching device to series-resonance at the operating microwave frequency by varying the effective capacitance C between the vane and the waveguide walls to tune the effective inductance L of the movable vane to series resonance.

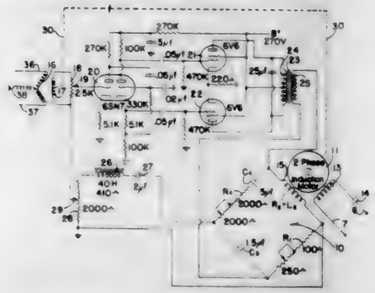
725,983. **RIBBON ANODES IN GALVANIC PROTECTION OF METALS.** Harold A. Robinson, Midland, Mich., and John J. Grebe, Oak Ridge, Tenn. Filed Feb. 3, 1947. Published Nov. 21, 1950. Class 204—197. 1 sheet of drawings. 7 pages of specification.



A pipeline or other structure of steel or other corrodible metal buried in high-resistance soil is protected against corrosion by a sacrificial galvanic anode. This anode is a continuous ribbon of a metal anodic to the structure, e. g. magnesium or zinc, buried in the earth near the structure and paralleling it, being electrically connected to it at intervals. The anode is preferably a steel-cored magnesium ribbon of elliptical cross-section. It may be installed by a cable-laying plow.

783,360. **SERVO DAMPING SYSTEM.** Walter A. Good, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Filed Oct. 31, 1947. Published Nov. 21, 1950. Class 318—30. 1 sheet of drawings. 8 pages of specification.

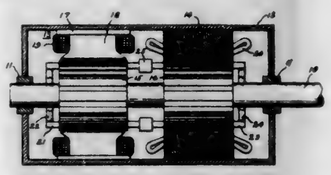
The system relates to damping means for electric servo-motors and comprises means acting through an initially balanced Owen Bridge **10** whereby the counter-electromotive force of the motor during its operation provides the damping control. One winding **13** of a small two-phase induction motor **11** is energized from an A. C. source **6**, **7** through a capacitor **14** providing a phase shift of nearly 90°. The other motor winding **15** constitutes one arm of the Owen Bridge having a resistance R_2 and inductance L_2. This winding **15** receives energy substantially in phase with the power supply but varying in amount and polarity with the magnitude and direction of an error signal. This signal which is induced in the output winding **17** of a control transformer is fed to the input grid of one half of a twin triode **20**, connected as an inverter, and supplying input excitation to beam-power tubes **21**, **22** connected in push-pull. The output transformer **23** transforms the outputs of tubes **21**, **22** into a suitable voltage feeding the motor winding **15** through the Owen Bridge **10**.



A portion of the unbalanced voltage of the bridge, after the removal of harmonics by a filter **26**, **27**, is fed back to the input side of the amplifier in opposition to the error voltage.

Thus the system is of an anticipatory nature in that an inverse correction is applied to the error voltage to reduce the amplifier output to zero while the error still has an appreciable value. The Owen Bridge is not frequency responsive and wastes less amplifier output than an inductance bridge.

123,428. **DYNAMOELECTRIC MACHINE.** Leonard J. Clark and Dennis J. Pitstow, Rugby, England, assignors to General Electric Company, a corporation of New York. Filed Oct. 25, 1949. Published Nov. 21, 1950. Class 171—123. 2 sheets of drawings. 9 pages of specification.



Discloses an alternator having two rotors on the same shaft and having independent stators. A D. C. salient pole winding on one stator induces currents in rotor bars located on the corresponding rotor and these bars are carried over to the other rotor but are transposed in the cross-over, so as to reverse the phase rotation on the second rotor. An A. C. winding on the second stator picks up output voltages of double frequency without the necessity of employing any brushes.

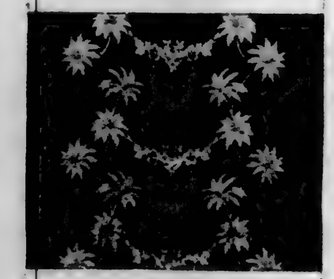
DESIGNS

NOVEMBER 21, 1950

160,913
FLOCKED FABRIC
Joseph Alexander, New York, N. Y.
Application June 20, 1950, Serial No. 10,654
Term of patent 3½ years
(Cl. D92—1)

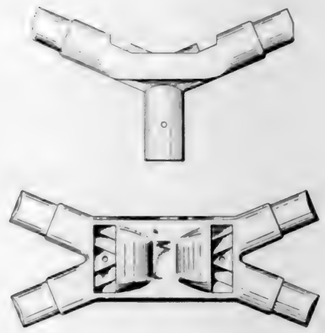
The ornamental design for a flocked fabric, substantially as shown and described.

160,914
FLOCKED FABRIC
Joseph Alexander, New York, N. Y.
Application June 20, 1950, Serial No. 10,655
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a flocked fabric, substantially as shown and described.

160,915
ANTENNA INSULATOR
Harley E. Arnold and George W. Saffran, Toledo, Ohio
Application December 12, 1949, Serial No. 6,565
Term of patent 7 years
(Cl. D26—14)



The ornamental design for an antenna insulator, as shown.

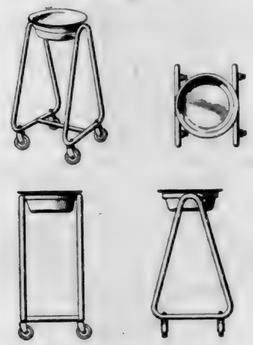
160,916
JEWELRY COMPONENT OR SIMILAR ARTICLE
Karl C. Augenstein, Cranston, R. I., assignor to Speidel Corporation, a corporation of Rhode Island
Application June 8, 1950, Serial No. 10,412
Term of patent 14 years
(Cl. D45—1)

The ornamental design for a jewelry component or similar article, substantially as shown.

160,917
WATCH BRACELET OR SIMILAR ARTICLE
Karl C. Augenstein, Cranston, R. I., assignor to Speidel Corporation, a corporation of Rhode Island
Application June 8, 1950, Serial No. 10,413
Term of patent 14 years
(Cl. D45—4)

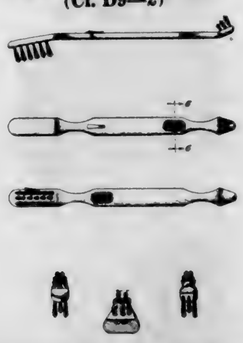
The ornamental design for a watch bracelet or similar article, substantially as shown and described.

160,918
BASIN STAND
Harry M. Berner, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application October 22, 1948, Serial No. 149,246
Term of patent 14 years
(Cl. D4—2)



The ornamental design for a basin stand, as shown.

160,919
TOOTHBRUSH
Donald W. Brooks, Oradell, N. J.
Application May 12, 1949, Serial No. 2,605
Term of patent 14 years
(Cl. D9—2)

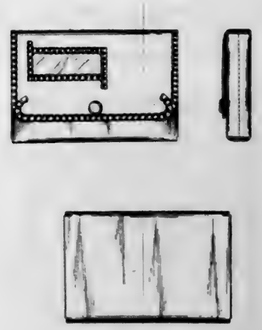


The ornamental design for a toothbrush, as shown.

160,920
CONDIMENT SHAKER
George Brooks, Jr., St. Paul, Minn.
Application January 28, 1950, Serial No. 7,541
Term of patent 3½ years
(Cl. D44—22)

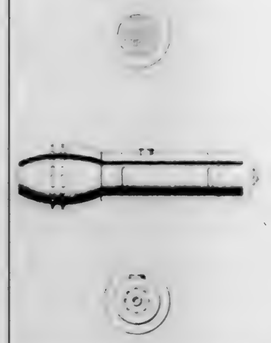
The ornamental design for a condiment shaker, as shown.

160,921
HOLDER FOR TISSUES OR THE LIKE
Herbert S. Chase and George C. Mathes, New York, N. Y.
Application March 3, 1950, Serial No. 8,312
Term of patent 7 years
(Cl. D87—3)



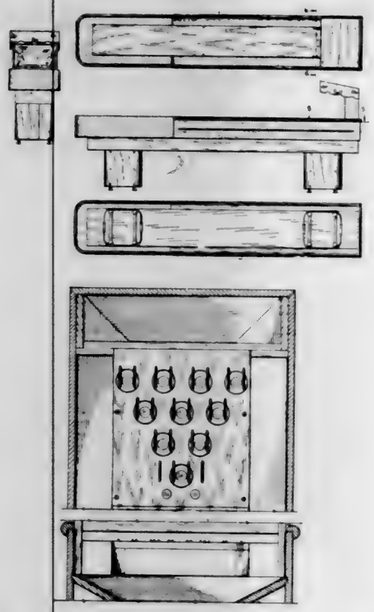
The ornamental design for a holder for tissues or the like, substantially as shown.

160,922
CUT HAIR BLOWER OR SIMILAR ARTICLE
Salvatore L. Ciulla, Port Richmond, N. Y.
Application April 10, 1950, Serial No. 9,097
Term of patent 14 years
(Cl. D86—10)



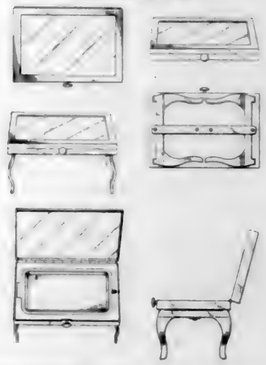
The ornamental design for a cut hair blower or similar article, as shown.

160,923
BOWLING GAME TABLE
Edward J. Collins, Los Angeles, Calif., assignor to United States Woodcraft Corporation, Redondo Beach, Calif., a corporation of California
Application April 26, 1949, Serial No. 2,276
Term of patent 3½ years
(Cl. D34—3)



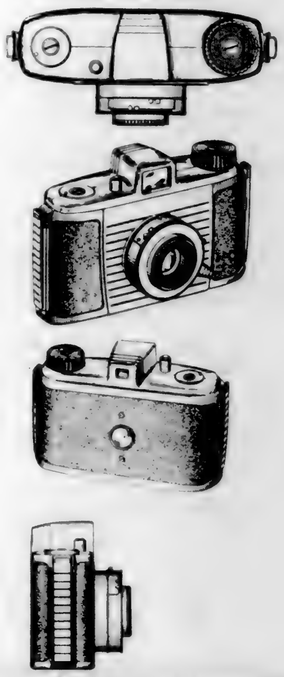
The ornamental design for a bowling game table, substantially as shown.

160,924
VANITY CASE
Arthur P. Conant, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a corporation of Kentucky
Application February 10, 1950, Serial No. 7,853
Term of patent 3½ years
(Cl. D86—10)



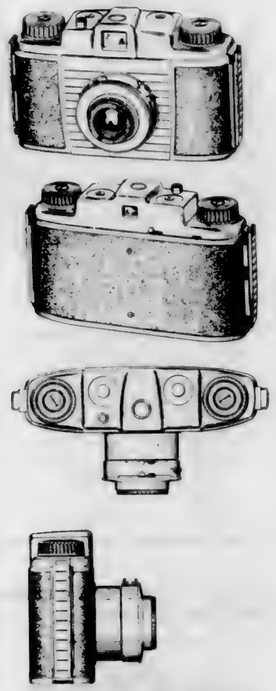
The ornamental design for a vanity case, substantially as shown.

160,925
CAMERA
Arthur H. Crapsey, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 27, 1949, Serial No. 4,161
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a camera, as shown.

160,926
CAMERA
Arthur H. Crapsey, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 27, 1949, Serial No. 5,742
Term of patent 14 years
(Cl. D61—1)

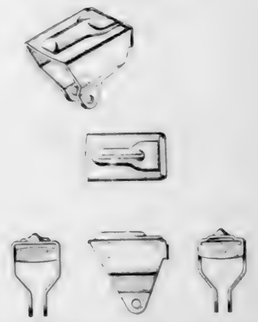


The ornamental design for a camera, as shown.

160,927
VALVE OPERATING SPRAY NOZZLE CAP UNIT
John C. Crowley, Willoughby, Ohio
Application October 26, 1949, Serial No. 5,710
Term of patent 14 years
(Cl. D83—1)

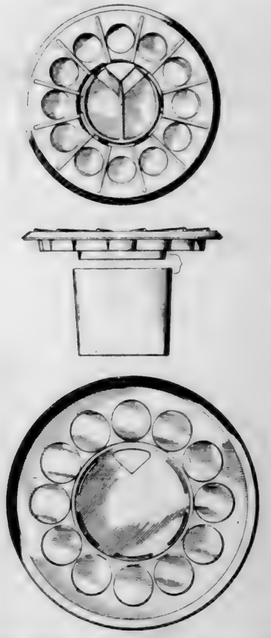
The ornamental design for a valve operating spray nozzle cap unit, as shown and described.

160,928
HOOD FOR SECURING MEANS OF MONEY BAGS OR THE LIKE
Paul F. D'Aleo, Valley Stream, N. Y.
Application March 25, 1950, Serial No. 8,763
Term of patent 14 years
(Cl. D17—3)



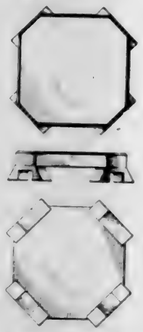
The ornamental design for a hood for securing means of money bags or the like, substantially as shown.

160,929
COMBINED PALETTE AND WATER JAR
Edward D. Davis, Chula Vista, and Norbert Shaeffer, Los Angeles, Calif.; said Shaeffer assignor to said Davis
Application December 6, 1949, Serial No. 6,452
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a combined palette and water jar, substantially as shown.

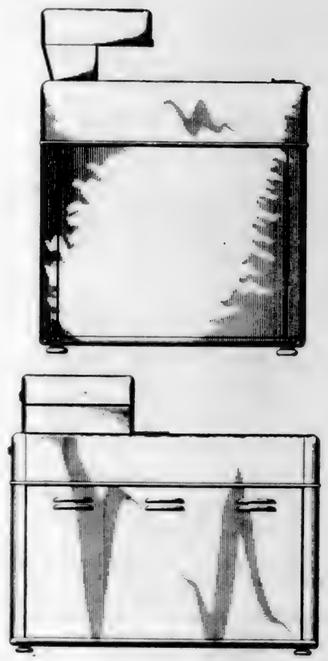
160,930
STAND FOR BEVERAGE DISPENSERS
Robert B. Duff, Crookston, Minn.
Application February 24, 1949, Serial No. 1,054
Term of patent 14 years
(Cl. D44—26)



The ornamental design for a stand for beverage dispensers, substantially as shown.

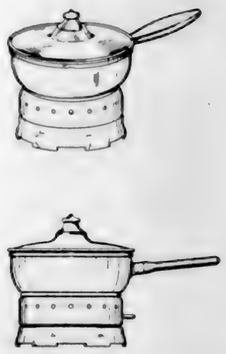
160,931
DOCUMENT PHOTOGRAPHING MACHINE
William W. Eaton, Milford, Conn., and Harold T. Olson, Baldwin, N. Y., assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application October 4, 1949, Serial No. 5,287
Term of patent 7 years
(Cl. D64—11)

160,931—Continued



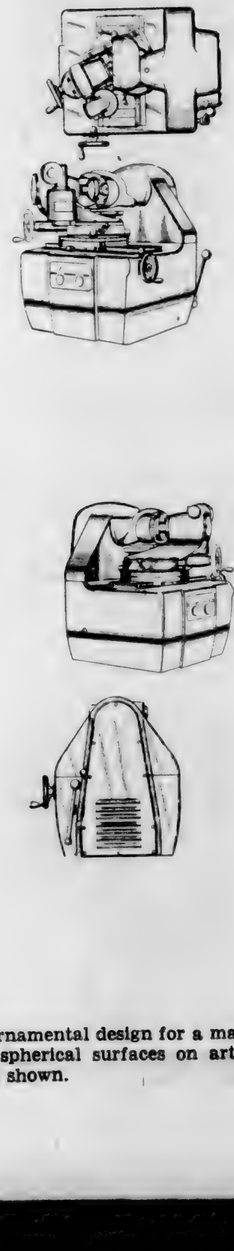
The ornamental design for a document photographing machine, as shown.

160,932
COOKING APPARATUS
Leonard E. Finch, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application October 12, 1949, Serial No. 5,459
Term of patent 14 years
(Cl. D44—1)



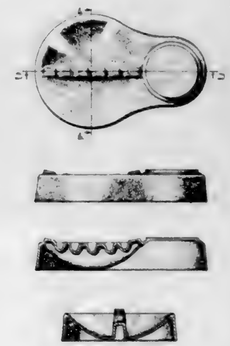
The ornamental design for a cooking apparatus, as shown.

160,933
MACHINE FOR GENERATING SPHERICAL SURFACES ON ARTICLES
William D. Fowler, Geneva, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York
Application February 26, 1949, Serial No. 1,099
Term of patent 14 years
(Cl. D37—1)



The ornamental design for a machine for generating spherical surfaces on articles, substantially as shown.

160,934
ASH TRAY
Robert Harvey Galbreath, Denver, Colo.
Application November 14, 1949, Serial No. 6,034
Term of patent 14 years
(Cl. D85—2)

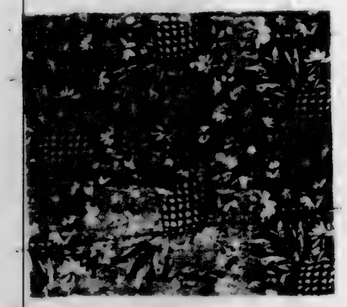


The ornamental design for an ash tray, as shown.

160,935
COMBINED LAMP AND TELEPHONE STAND
Henry A. Glaeser, Wilmington, Del.
Application September 20, 1948, Serial No. 148,670
Term of patent 7 years
(Cl. D48—20)

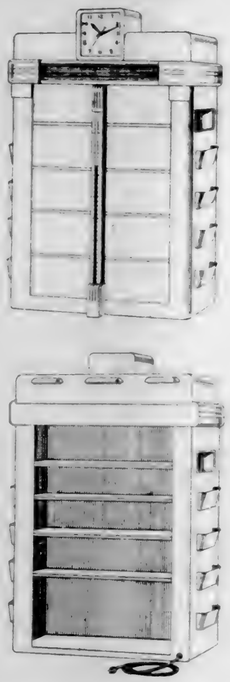
The ornamental design for a combined lamp and telephone stand, as shown.

160,936
TEXTILE FABRIC
Jack Gluck, New York, N. Y.
Application June 22, 1950, Serial No. 10,693
Term of patent 3½ years
(Cl. D92—1)



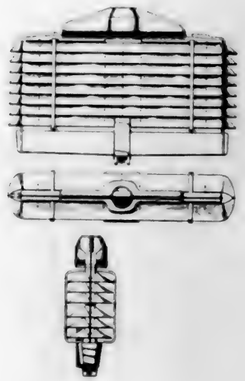
The ornamental design for a textile fabric, substantially as shown and described.

160,937
ADVERTISING CABINET
Leonard H. Goldman, Phoenix, Ariz.
Application August 22, 1949, Serial No. 4,636
Term of patent 7 years
(Cl. D1—11)



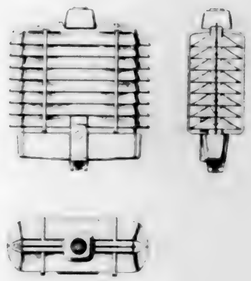
The ornamental design for an advertising cabinet, as shown.

160,938
OVERHEAD SPACE HEATER OR SIMILAR ARTICLE
Harry R. Greene, Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application September 24, 1949, Serial No. 5,155
Term of patent 14 years
(Cl. D81—10)



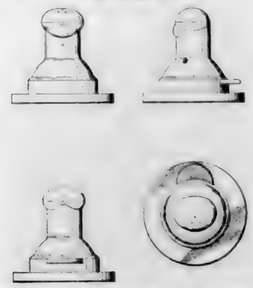
The ornamental design for an overhead space heater or similar article, as shown.

160,939
OVERHEAD HEATER OR SIMILAR ARTICLE
Harry R. Greene, Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application September 24, 1949, Serial No. 5,156
Term of patent 14 years
(Cl. D81—10)



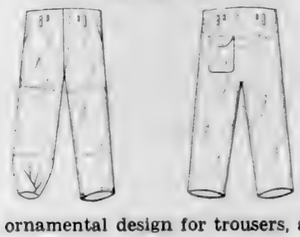
The ornamental design for an overhead heater or similar article, as shown.

160,940
NIPPLE
Walter H. Griesinger, Portland, Oreg.
Application March 26, 1949, Serial No. 1,651
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a nipple, substantially as shown.

160,941
TROUSERS
Basil M. Havens, Bastian, Va.
Application April 23, 1948, Serial No. 145,920
Term of patent 14 years
(Cl. D3—17)

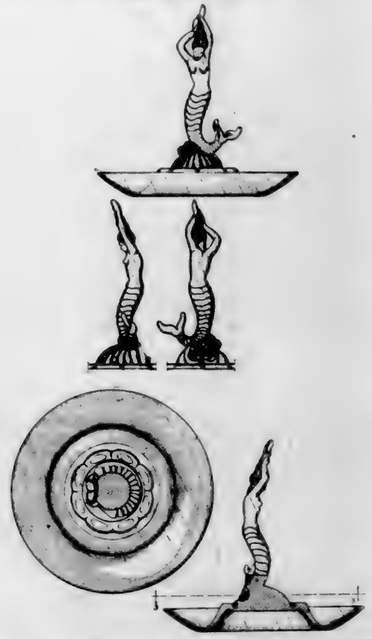


The ornamental design for trousers, as shown.

160,942
BOTTLE
Walter T. Heintze, Elizabeth, N. J., assignor to Doho Chemical Corporation, New York, N. Y., a corporation of New York
Application December 7, 1949, Serial No. 6,461
Term of patent 14 years
(Cl. D58—8)

The ornamental design for a bottle, as shown.

160,943
CENTERPIECE
Walter T. Heintze, Elizabeth, N. J., and Ann T. Donahue, New York, N. Y., assignors to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application December 28, 1949, Serial No. 6,868
Term of patent 3½ years
(Cl. D36—2)

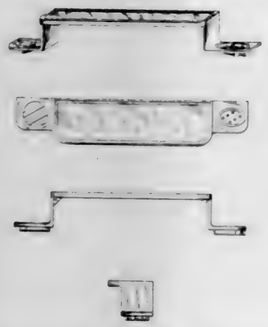


The ornamental design for a centerpiece, as shown.

160,944
CHILD'S TROUSERS
Julian Herman, New York, N. Y.
Application December 30, 1949, Serial No. 6,928
Term of patent 7 years
(Cl. D3—17)

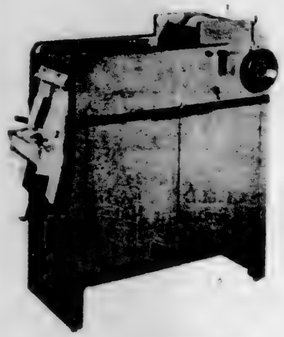
The ornamental design for child's trousers, substantially as shown and described.

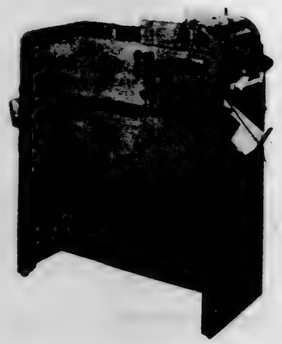
160,945
COMBINATION BATHROOM FIXTURE
Graham Holzhausen, New York, N. Y.
Application December 13, 1949, Serial No. 6,593
Term of patent 7 years
(Cl. D4—3)



The ornamental design for a combination bathroom fixture, substantially as shown.

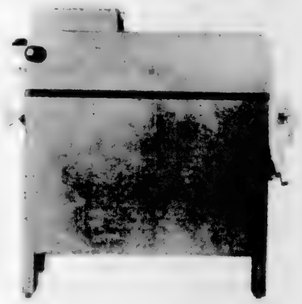
160,946
DUPLICATING MACHINE
Guilbert M. Hunt, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application October 3, 1949, Serial No. 5,278
Term of patent 14 years
(Cl. D64—11)





The ornamental design for a duplicating machine, as shown.

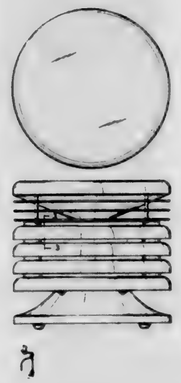
160,946—Continued



160,947
TINSEL APPLIQUÉD FABRIC
Justin I. Kingson, New York, N. Y.
Application April 15, 1950, Serial No. 9,251
Term of patent 14 years
(Cl. D92—1)

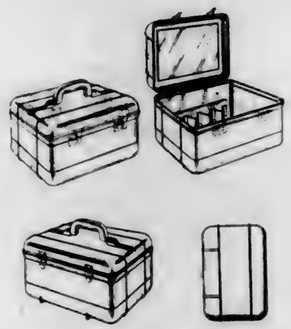
The ornamental design for a tinsel appliquéd fabric, as shown and described.

160,948
AIR CIRCULATOR UNIT
Jacob W. Kisling, St. Louis County, Mo.
Application October 13, 1949, Serial No. 5,474
Term of patent 14 years
(Cl. D26—7)



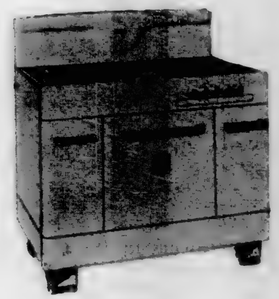
The ornamental design for an air circulator unit, substantially as shown and described.

160,949
TRAVELING CASE
Aleck Knell, Los Angeles, Calif.
Application June 19, 1950, Serial No. 10,634
Term of patent 14 years
(Cl. D87—5)



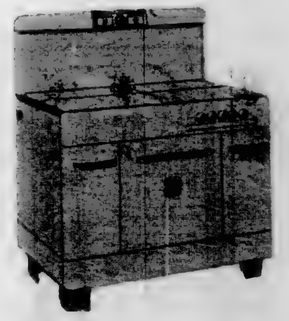
The ornamental design for a traveling case, substantially as shown and described.

160,950
RANGE
Ralph E. Kruck, Clinton, Conn., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application May 5, 1949, Serial No. 2,442
Term of patent 7 years
(Cl. D81—4)



The ornamental design for a range, as shown and described.

160,951
RANGE
Ralph E. Kruck, Clinton, Conn., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application May 5, 1949, Serial No. 2,444
Term of patent 7 years
(Cl. D81—4)

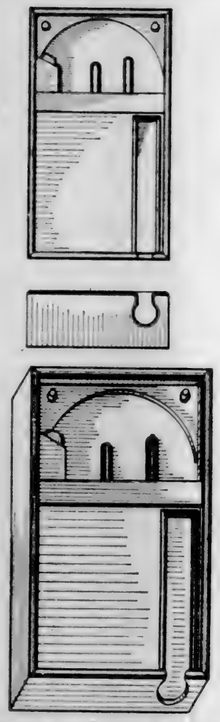


The ornamental design for a range, as shown and described.

160,952
NARROW TEXTILE FABRIC OR THE LIKE
Curtis A. Limbach, Hartsdale, N. Y.
Application December 8, 1949, Serial No. 6,507
Term of patent 14 years
(Cl. D3—32)

The ornamental design for a narrow textile fabric or the like, as shown.

160,953
CAPTIVE BALL GAME BOARD
Joseph A. Mettler, Indianapolis, Ind.
Application October 12, 1948, Serial No. 149,078
Term of patent 3½ years
(Cl. D34—5)



The ornamental design for a captive ball game board, as shown.

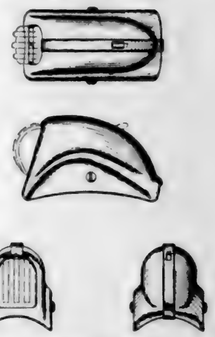
160,954
LITURGICAL FABRIC OR SIMILAR ARTICLE
Charles M. Muench, New York, N. Y.
Application October 27, 1949, Serial No. 5,739
Term of patent 7 years
(Cl. D92—1)

The ornamental design for a liturgical fabric or similar article, substantially as shown.

160,955
LITURGICAL FABRIC OR SIMILAR ARTICLE
William T. Mulloy, Covington, Ky.
Application March 22, 1949, Serial No. 1,554
Term of patent 7 years
(Cl. D92—1)

The ornamental design for a liturgical fabric or similar article, substantially as shown.

160,956
FENDER LAMP OR SIMILAR ARTICLE
Daniel M. Pearl and Erwin M. Pearl, Chicago, Ill.
Application May 28, 1949, Serial No. 2,952
Term of patent 3½ years
(Cl. D48—32)



The ornamental design for a fender lamp or similar article, substantially as shown and described.

160,957
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 23, 1950, Serial No. 7,425
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown and described.

160,958
BRACELET OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,149
Term of patent 7 years
(Cl. D45—4)

The ornamental design for a bracelet or similar article, substantially as shown.

160,959
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,157
Term of patent 7 years
(Cl. D45—9)

The ornamental design for an earring or similar article, substantially as shown.

160,960
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,158
Term of patent 7 years
(Cl. D45—9)

The ornamental design for an earring or similar article, substantially as shown.

160,961
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,159
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a brooch or similar article, substantially as shown.

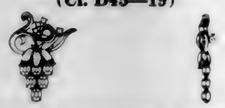
160,962
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,160
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a brooch or similar article, substantially as shown.

160,963
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,162
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a brooch or similar article, substantially as shown.

160,964
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,163
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

160,965
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,183
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown and described.

160,966
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,185
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a brooch or similar article, substantially as shown.

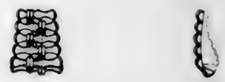
160,967
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,186
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a brooch or similar article, substantially as shown.

160,968
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,341
Term of patent 7 years
(Cl. D45—16)

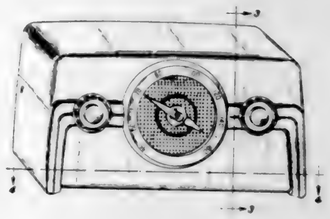
The ornamental design for a link chain for a necklace or similar article, substantially as shown.

160,969
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,344
Term of patent 7 years
(Cl. D45—9)

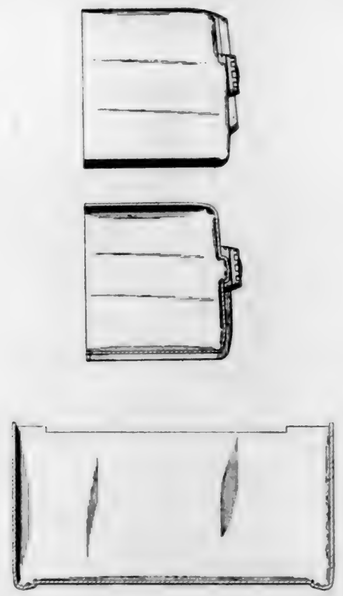


The ornamental design for an earring or similar article, substantially as shown.

160,970
RADIO RECEIVER CABINET
Carl Reynolds, Jr., Birmingham, Mich., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 31, 1949, Serial No. 4,779
Term of patent 14 years
(Cl. D56—4)



160,970—Continued



The ornamental design for a radio receiver cabinet, as shown.

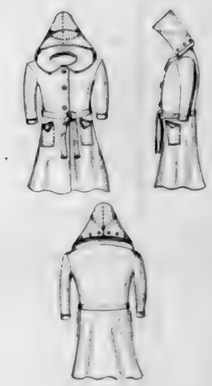
160,971
LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Saul Ritter, New York, N. Y., assignor of one-half to Marvin J. Bruner, New York, N. Y.
Application October 3, 1949, Serial No. 5,282
Term of patent 7 years
(Cl. D45—4)

The ornamental design for a link chain for a bracelet or similar article, as shown and described.

160,972
BONNET
John R. Robbins, San Antonio, Tex., assignor to Maxie A. Hill, San Antonio, Tex.
Application January 23, 1950, Serial No. 7,406
Term of patent 14 years
(Cl. D3—13)

The ornamental design for a bonnet, as shown.

160,973
LADY'S COAT WITH DETACHABLE HOOD
Samuel Saparow, Los Angeles, Calif.
Application May 22, 1950, Serial No. 10,080
Term of patent 3½ years
(Cl. D3—4)

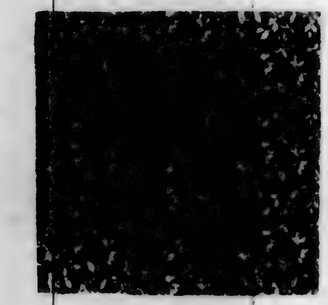


The ornamental design for a lady's coat with detachable hood, as shown.

160,974
PENDANT OR THE LIKE
Carl Schraysshuen, Providence, R. I., assignor to Carl-Art, Inc., a corporation of Rhode Island
Application May 5, 1950, Serial No. 9,737
Term of patent 7 years
(Cl. D45—15)

The ornamental design for a pendant or the like, substantially as shown.

160,975
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 4, 1950, Serial No. 8,962
Term of patent 3½ years
(Cl. D59—10)

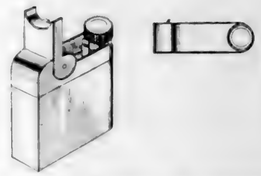


The ornamental design for a wallpaper or the like, substantially as shown and described.

160,976
FISHING LURE
Lloyd B. Shroff, Clay Township, St. Joseph County, Ind.
Application November 23, 1949, Serial No. 6,215
Term of patent 3½ years
(Cl. D31—4)

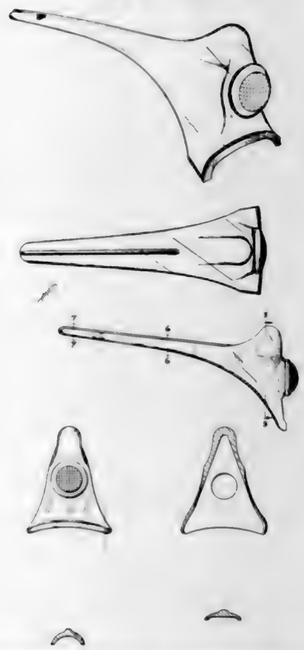
The ornamental design for a fishing lure, as shown and described.

160,977
CIGARETTE LIGHTER
Justin Simon, Woodmere, and Richard S. Temko, New York, N. Y.
Application October 5, 1949, Serial No. 5,314
Term of patent 14 years
(Cl. D48—27)



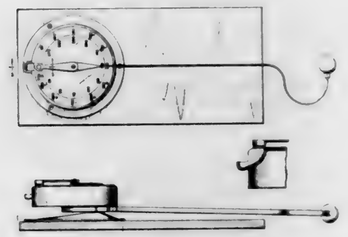
The ornamental design for a cigarette lighter, as shown.

160,978
COMBINED AUTOMOBILE FENDER MOLDING AND ORNAMENT
Carl E. Sykes, Norfolk, Va.
Application May 24, 1949, Serial No. 2,835
Term of patent 14 years
(Cl. D72—1)



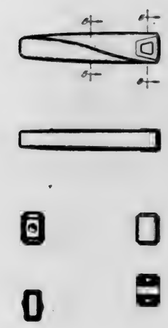
The ornamental design for a combined automobile fender molding and ornament, substantially as shown.

160,979
GOLF GAME APPARATUS
Vernon L. Tannehill, Fort Wayne, Ind.
Application February 23, 1949, Serial No. 1,022
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf game apparatus, as shown.

160,980
HANDLE FOR KITCHEN UTENSILS OR SIMILAR ARTICLES
Franz Wagner, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1949, Serial No. 3,623
Term of patent 7 years
(Cl. D44—29)

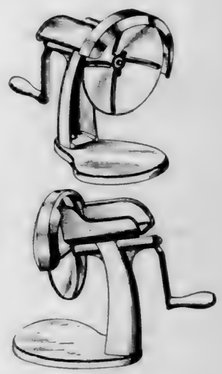


The ornamental design for a handle for kitchen utensils or similar articles, as shown.

160,981
HANDLE FOR KITCHEN UTENSILS OR SIMILAR ARTICLES
Franz Wagner, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application June 29, 1949, Serial No. 3,625
Term of patent 7 years
(Cl. D44—29)

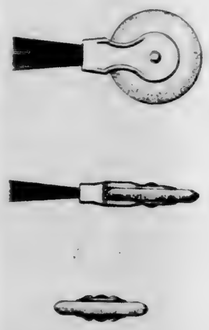
The ornamental design for a handle for kitchen utensils or similar articles, as shown.

160,982
VEGETABLE SLICER
Elton F. Whitfill and Henry J. Talge, Kansas City, Mo., assignors to John C. Hockery, Kansas City, Mo., as trustee
Application November 9, 1949, Serial No. 5,948
Term of patent 14 years
(Cl. D89—1)



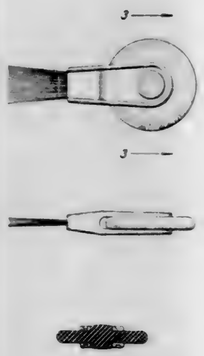
The ornamental design for a vegetable slicer, substantially as shown.

160,983
COMBINATION ERASER AND BRUSH
Edward Wild, West Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application April 29, 1949, Serial No. 2,348
Term of patent 7 years
(Cl. D74—7)



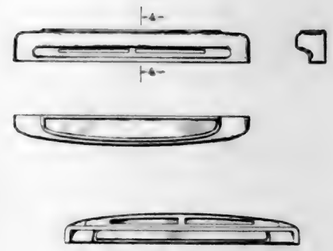
The ornamental design for a combination eraser and brush, as shown.

160,984
COMBINATION ERASER AND BRUSH
Edward Wild, West Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application April 29, 1949, Serial No. 2,349
Term of patent 7 years
(Cl. D74—7)



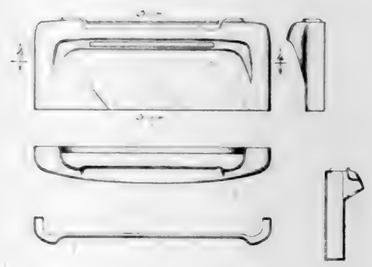
The ornamental design for a combination eraser and brush, as shown.

160,985
BACKSPLASH PANEL FOR A COOKING RANGE
Willis E. Williams, Shelbyville, and Edward W. Harrison, Indianapolis, Ind., assignors to Chambers Corporation, a corporation of Indiana
Application January 14, 1950, Serial No. 7,241
Term of patent 14 years
(Cl. D81—25)



The ornamental design for a backsplash panel for a cooking range, as shown.

160,986
BACKSPLASH PANEL FOR A COOKING RANGE
Willis E. Williams, Shelbyville, and Edward W. Harrison, Indianapolis, Ind., assignors to Chambers Corporation, a corporation of Indiana
Application January 14, 1950, Serial No. 7,242
Term of patent 14 years
(Cl. D81—25)



The ornamental design for a backsplash panel for a cooking range, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Air Con Service, Inc., New York, N. Y. Room ventilator and cooler unit. Serial No. 560,080, Nov. 21. Class 34.

Aircraft-Marine Products Inc., Harrisburg, Pa. Machines for applying electrical terminals. Serial No. 573,108, Nov. 21. Class 23.

Aktiebolaget Addo, Malmo, Sweden. Bookkeeping machines. Serial No. 521,046, Nov. 21. Class 26.

Allen Organ Company, Inc., Allentown, Pa. Loudspeakers and parts thereof. Serial No. 589,138, Nov. 21. Class 21.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric motors, electric generators, circuit breakers, etc. Serial No. 589,294, Nov. 21. Class 21.

American Maize-Products Company, New York, N. Y. Corn protein to be included as an ingredient in fire extinguishing preparations. Serial No. 581,393, Nov. 21. Class 6.

American Metal Specialties Corporation: *See*—
American Metal Specialties Corp.

American Metal Specialties Corp., also known as American Metal Specialties Corporation, Hatboro, Pa. Children's sand boxes and play pools, etc. Serial No. 590,925, Nov. 21. Class 22.

American Optical Company, Southbridge, Mass. Still picture projectors. Serial No. 595,441, Nov. 21. Class 26.

American Plasticraft Company, New York, N. Y. Watch crystals. Serial No. 585,306, Nov. 21. Class 33.

Art Specialty Company, Chicago, Ill. Fluorescent lamp. Serial No. 588,928, Nov. 21. Class 21.

Athol Manufacturing Company, Athol, Mass. Fibre base composed of wood and/or cotton. Serial No. 595,240, Nov. 21. Class 50.

Atlantic Coast Fisheries Co., The, Boston, Mass. Synthetic diamonds. Serial No. 594,304, Nov. 21. Class 28.

Atlantic Fabrics Co.: *See*—
Swartz, Mark A.

Autoyre Company, Incorporated, The, Oakville, Conn. Kitchen and bathroom accessories. Serial No. 544,027, Nov. 21. Class 13.

Barron's Publishing Company, Inc., New York, N. Y. Periodical. Serial No. 584,435, Nov. 21. Class 38.

Basic Supplements Co.: *See*—
Woodard, Gordon K.

Bay State Products Corporation, Allston, Mass. Toys. Serial No. 587,526, Nov. 21. Class 22.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Gas ranges and stoves. Serial No. 579,073, Nov. 21. Class 34.

Biggs Antique Company, Incorporated, Richmond, Va. Wooden and upholstered furniture. Serial No. 564,856, Nov. 21. Class 32.

Bohack, H. C., Co., Inc., Brooklyn, N. Y. Canned food products. Serial No. 587,847, Nov. 21. Class 46.

Bol, Ltd., New York, N. Y. Cinematographic and photographic apparatus and accessories thereto. Serial No. 591,400, Nov. 21. Class 26.

Boonton Radio Corporation, Boonton, N. J. Frequency converters for use with high frequency signal generators. Serial No. 589,066, Nov. 21. Class 26.

Bowen Products Corporation, Ecorse, Mich. Unified lubricating system. Serial No. 534,596, Nov. 21. Class 23.

Brach, E. J. & Sons, Chicago, Ill. Candy. Serial No. 549,224, Nov. 21. Class 46.

Brady, F. E., Products, Inc., Muncie, Ind. Fluid pumps, hydrostatic air volume controls, etc. Serial No. 536,579, Nov. 21. Class 23.

Brook Hill Farms, Inc., Chicago, Ill. Fresh milk. Serial No. 576,844, Nov. 21. Class 46.

Buckeystown Canning Company, The, Buckeystown, Md. Canned sweet corn, succotash and lima beans. Serial No. 576,846, Nov. 21. Class 46.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Line of pharmaceutical and medicinal preparations. Serial No. 559,577, Nov. 21. Class 18.

Bursley & Company, Inc., Fort Wayne, Ind. Canned fruit juices, canned bean sprouts, canned vegetable chop suey, etc. Serial No. 584,798, Nov. 21. Class 46.

Calico Printers' Association Limited, The, Manchester, England. Piece goods. Serial No. 585,367, Nov. 21. Class 42.

California Turkey Growers Association, San Francisco, Calif. Poultry. Serial Nos. 588,548–50, Nov. 21. Class 46.

Carengelo, Ernest, doing business as Koza Products Company, New York, N. Y. Salve. Serial No. 593,395, Nov. 21. Class 18.

Casady, Claude E., doing business under the name General Tractor Company, Seattle, Wash. Automotive tractors. Serial No. 564,859, Nov. 21. Class 23.

Celastic Corporation, The, Wilmington, Del., and Arlington, N. J. Solution of a chemical compound. Serial No. 591,353, Nov. 21. Class 6.

Central California Berry Growers Association, San Francisco, Calif. Fresh strawberries. Serial No. 583,313, Nov. 21. Class 46.

Chicago Pump Company, Chicago, Ill. Return line vacuum condensation pump. Serial No. 557,898, Nov. 21. Class 23.

Chicago Roller Skate Company, Chicago, Ill. Rollers and wheels for conveyors. Serial No. 542,714, Nov. 21. Class 23.

Chin & Lee Co., Inc., New York, N. Y. Canned chop suey and noodles, soy sauce, tea balls, etc. Serial No. 574,570, Nov. 21. Class 46.

Colorado Milling & Elevator Co., The, doing business under the style name of The St. Anthony Flour Mills, Denver, Colo., and St. Anthony, Idaho. Wheat flour. Serial No. 557,017, Nov. 21. Class 46.

Colvin Corporation, Long Island City, N. Y. Toys. Serial No. 568,155, Nov. 21. Class 22.

Commercial Envelope Manufacturing Company: *See*—
Kristel, Nat H.

Conductive Hospital Accessories Corporation, Boston, Mass. Ohmmeters. Serial No. 595,453, Nov. 21. Class 26.

Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Sewing machines. Serial No. 595,828, Nov. 21. Class 23.

Consumer's Yeast Company, San Francisco, Calif. Dough enrichener. Serial No. 591,282, Nov. 21. Class 46.

Continental Mills, Inc., Philadelphia, Pa. Knitted and woven woolen and worsted cloths, etc. Serial No. 561,381, Nov. 21. Class 42.

Cowan, Eric, doing business as Cowan Manufacturing Company, San Francisco, Calif. Twine dispenser. Serial No. 584,191, Nov. 21. Class 23.

Cowan Manufacturing Company: *See*—
Cowan, Eric.

Crest Company, The: *See*—
Larkin, Daniel C.

Crowe Engineering Company, The, Cincinnati, Ohio. Combustion burners. Serial No. 595,309, Nov. 21. Class 34.

Crown Cork & Seal Company, Inc., Baltimore, Md. Container closures. Serial No. 591,406, Nov. 21. Class 50.

Cudahy Packing Company, The, Chicago, Ill. Butter, whole eggs and cheese. Serial No. 583,333, Nov. 21. Class 46.

Cussins and Fearn Company, The, Columbia, Ohio. Measuring rules, tape measures, carpenters' levels, etc. Serial No. 551,861, Nov. 21. Class 26.

Custom Shade Shop, The, Arlington, Va. Trailer Venetian blinds. Serial No. 574,612, Nov. 21. Class 19.

Cutler-Hammer, Inc., Milwaukee, Wis. Thermostatically controlled electrical switches; gas meters; gas calorimeters, etc. Serial Nos. 578,772–3, Nov. 21. Class 26.

Cutler-Hammer, Inc., Milwaukee, Wis. Thermostatically controlled electrical switches; gas meters; gas calorimeters; etc. Serial No. 578,775, Nov. 21. Class 26.

Dale Products Corporation, New York, N. Y. Binoculars. Serial No. 593,584, Nov. 21. Class 26.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. Serial No. 593,533, Nov. 21. Class 26.

Davies, Oliver, Inc., Racine, Wis. Hand-operated rotary glass washers. Serial No. 556,322, Nov. 21. Class 23.

Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixtures and parts thereof. Serial No. 594,696, Nov. 21. Class 21.

Dazey Corporation, St. Louis, Mo. Hand-operated machines and appliances. Serial No. 578,009, Nov. 21. Class 23.

Dickerson, Walker T., Company, The, Columbus, Ohio. Women's shoes. Serial No. 592,313, Nov. 21. Class 39.

Dumas, W. L., doing business as W. L. Dumas Manufacturing Company, Miami, Okla. Children's hoops. Serial No. 541,723, Nov. 21. Class 22.

Dumas, W. L., Manufacturing Company: *See*—
Dumas, W. L.

Eastern Malleable Iron Company, The, Naugatuck, Conn. Chain hooks, door guides, door hangers, etc. Serial No. 517,243, Nov. 21. Class 13.

Eastman Kodak Company, Flemington N. J. and Rochester, N. Y. Motion picture projectors. Serial No. 594,764, Nov. 21. Class 26.

Eastman Kodak Company, Flemington, N. J. and Rochester, N. Y. Photographic cameras. Serial No. 594,765, Nov. 21. Class 26.

Eaton Laboratories Inc., Norwich, N. Y. Antihistaminic fumerate. Serial No. 593,472, Nov. 21. Class 18.

Eggers, Theodore H., San Francisco, Calif. Canned shoestring potatoes. Serial No. 568,101, Nov. 21. Class 46.

Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric motor controllers. Serial No. 570,840, Nov. 21. Class 21.

Electro Manufacturing Corporation, Chicago, Ill. Fluorescent lighting fixtures. Serial No. 550,035, Nov. 21. Class 21.

Ellmore Silver Co., Inc., The, Meriden, Conn. Sterling silver flatware and hollowware. Serial No. 594,835, Nov. 21. Class 28.

Endicott Johnson Corporation, Endicott, N. Y. Chrome and vegetable leather. Serial No. 590,549, Nov. 21. Class 1.

Enterprise Manufacturing Company, The, Akron, Ohio. Fish scalers. Serial No. 543,357, Nov. 21. Class 23.

Fate-Root-Heath Company, The, Plymouth, Ohio. Railroad locomotives. Serial No. 545,112, Nov. 21. Class 23.

Feature Ring Co., Inc., New York, N. Y. Gold and platinum jewelry. Serial No. 595,071, Nov. 21. Class 28.

Filtair: *See*—
Spanos, Pepter A.

Firestone Tire & Rubber Company, The, Akron, Ohio. Transmission, brake and friction linings. Serial No. 582,608, Nov. 21. Class 35.

Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. Serial No. 566,926, Nov. 21. Class 46.

Food Machinery and Chemical Corporation, San Jose, Calif. Parasiticides. Serial Nos. 579,090–1, Nov. 21. Class 6.

Food Machinery and Chemical Corporation, San Jose, Calif. Parasiticides. Serial No. 580,188, Nov. 21. Class 6.

Food Service Products: *See*—
O'Brien, Joseph W.

Forat, Antoine H., doing business as S. A. F. I. E. X., New York, N. Y. Canned vegetables, fruits and fish. Serial No. 570,362, Nov. 21. Class 46.

Friden Calculating Machine Co., Inc., San Leandro, Calif. Calculating machines. Serial Nos. 593,914–5, Nov. 21. Class 26.

Frontier Manufacturing Company, Dallas, Tex. Divided upright wall bins, shelving units or sets of shelves, etc. Serial No. 579,092, Nov. 21. Class 32.

Full Run Carbon Saver Co.: *See*—
Reimann, Leo D.

General Tractor Company: *See*—
Casady, Claude E.

Gerlat Company, The, Milwaukee, Wis. Electric decorative lighting and Christmas tree lighting sets. Serial No. 589,781, Nov. 21. Class 21.

Glemby Company, Inc., The, New York, N. Y. Combination device in the nature of a comb-curler. Serial No. 551,888, Nov. 21. Class 40.

Glider Trailer Company, Chicago, Ill. House trailers, trailer coaches, and wheels, etc. Serial No. 553,194, Nov. 21. Class 19.

Goggin Company, The: *See*—
Moran, Frances T.

Goldblatt Bros. Inc., Chicago, Ill. Aspirin, boric acid, camphorated oil, etc. Serial No. 560,332, Nov. 21. Class 18.

Granat Bros., San Francisco, Calif. Watches. Serial No. 593,484, Nov. 21. Class 27.

Granat Bros., San Francisco, Calif. Watches. Serial No. 593,486, Nov. 21. Class 27.

Granat Bros., San Francisco, Calif. Finger rings. Serial No. 594,639, Nov. 21. Class 28.

Habitant Shops, Inc., Bay City, Mich. Trestle tables, settees, davenports, etc. Serial No. 573,544, Nov. 21. Class 32.

Hamilton Kent Manufacturing Company, Kent, Ohio. Gaskets. Serial No. 587,194, Nov. 21. Class 35.

Hammond, William J., doing business as The New England General Store, Millis, Mass. Trivets, footscrapers, door knockers, etc. Serial No. 579,869, Nov. 21. Class 13.

Hastings Manufacturing Company, Hastings, Mich. Piston rings. Serial No. 586,054, Nov. 21. Class 35.

Herbst, Alexander, & Company, New York, N. Y. Jewelry. Serial No. 594,839, Nov. 21. Class 28.

Hercules Powder Company, Wilmington, Del. Plasticizer. Serial No. 589,973, Nov. 21. Class 6.

Hildebrandt, Hiram H., doing business as The John J. Hildebrandt Co., Logansport, Ind. Artificial fish bait. Serial No. 577,670, Nov. 21. Class 22.

Hildebrandt, John J., Co., The: *See*—
Hildebrandt, Hiram H.

Hills, John M., Midland, Tex. Microscopic ultra-violet light examination box. Serial No. 584,328, Nov. 21. Class 26.

Holman, A. J., Company, Philadelphia, Pa. Bibles. Serial No. 588,689, Nov. 21. Class 38.

Hurley, Earl H., doing business as Earl H. Hurley Associates, Corry, Pa. Children's play swings. Serial No. 587,635, Nov. 21. Class 22.

Hurley, Earl H., Associates: *See*—
Hurley, Earl H.

Ideal Manufacturing Co., San Francisco, Calif. Mop wringer. Serial No. 538,143, Nov. 21. Class 23.

Ilac Products Corp., Buffalo, N. Y. Identifying labels attached to garments as a part of the laundering process thereof. Serial No. 517,416, Nov. 21. Class 24.

Inland Trading Company, Hammond, Ind. Fresh fruits and fresh vegetables. Serial No. 590,599, Nov. 21. Class 46.

Innis, Speiden & Co., New York, N. Y. Animal insecticides. Serial No. 574,620, Nov. 21. Class 6.

International Business Machines Corporation, New York, N. Y. Books, pamphlets, leaflets, etc. Serial No. 579,425, Nov. 21. Class 38.

International Doll Co., Inc., Philadelphia, Pa. Dolls and dolls' clothes. Serial No. 554,573, Nov. 21. Class 22.

International Paper Company, New York, N. Y. Wrapping paper. Serial No. 577,793, Nov. 21. Class 37.

Island Packers, Inc., Wilmington, Del., and Tutuila, American Samoa. Canned tuna. Serial No. 593,001, Nov. 21. Class 46.

James Industries, Inc., Philadelphia, Pa. Game. Serial No. 587,729, Nov. 21. Class 22.

Kahn's, E., Sons Co., The, Cincinnati, Ohio. Hydrogenated lard. Serial No. 579,331, Nov. 21. Class 46.

Kansas Laboratories, Inc., New York, N. Y. Anti-freeze preparations. Serial No. 569,859, Nov. 21. Class 6.

Kelco Company, San Diego, Calif. Alkali metal salts of alginic acid. Serial No. 590,814, Nov. 21. Class 6.

Kennametal Inc., Latrobe, Pa. Wear-resisting pieces consisting of cemented hard metallic compositions. Serial No. 560,479, Nov. 21. Class 23.

Kennecott Wire and Cable Company, Phillipsdale, R. I. Bare and insulated electric wires. Serial No. 590,161, Nov. 21. Class 21.

Kern Food Products, Inc., Los Angeles, Calif. Fruit preserves, jams and jellies, etc. Serial No. 550,810, Nov. 21. Class 46.

Kerotest Manufacturing Company, Pittsburgh, Pa. Manually operable valves and self-acting valves, etc. Serial No. 560,027, Nov. 21. Class 13.

Koppers Company, Inc., Pittsburgh, Pa., and New York, N. Y. Refined naphthalene. Serial No. 591,489, Nov. 21. Class 6.

Koza Products Company: *See*—
Carengelo, Ernest.

Kristel, Nat H., doing business under the name and style of Commercial Envelope Manufacturing Company, New York, N. Y. Bond paper. Serial No. 590,898, Nov. 21. Class 37.

Lakeside Packing Company, Manitowoc, Wis. Early June peas, cut wax beans, cut green beans, etc. Serial No. 546,852, Nov. 21. Class 46.

La Maskin Company, The, Chicago, Ill. Automotive accessories. Serial No. 581,811, Nov. 21. Class 35.

Larkin, Daniel C., doing business under the assumed name of The Crest Company, Detroit, Mich. Automobile seat covers. Serial No. 594,173, Nov. 21. Class 19.

Leyman Manufacturing Corporation, Cincinnati, Ohio. Oil heaters, air heaters, air coolers, etc. Serial No. 507,264, Nov. 21. Class 34.

Lien Chemical Company, Franklin Park, Ill. Deodorant. Serial No. 600,220, Nov. 21. Class 6.

Lightning Static Strap Company, St. Louis, Mo. Hanger straps for discharging static electricity from moving vehicles. Serial No. 594,909, Nov. 21. Class 21.

Link-Belt Speeder Corporation, Cedar Rapids, Iowa. Power shovels; revolving power shovels; etc. Serial No. 590,446, Nov. 21. Class 23.

Lipschultz Bros., St. Paul, Minn. Automobile seat covers. Serial No. 594,131, Nov. 21. Class 19.

Loroman Company, New York, N. Y. Ironing boards. Serial No. 583,209, Nov. 21. Class 24.

Luers, John M., Mount Clemens, Mich. Cutting-off tools, threading tools and toolholders, etc. Serial No. 594,719, Nov. 21. Class 23.

Marlin-Rockwell Corporation, Jamestown, N. Y. Ball bearings. Serial No. 556,969, Nov. 21. Class 23.

Marlin-Rockwell Corporation, Jamestown, N. Y. Ball bearings. Serial No. 556,972, Nov. 21. Class 23.

Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial No. 587,894, Nov. 21. Class 18.

Mathieson Chemical Corporation, Baltimore, Md. Bottler's alkali. Serial No. 591,574, Nov. 21. Class 6.

Mayfair Purchasing Company, Inc., Chicago, Ill. Radio and television receiving sets. Serial No. 593,991, Nov. 21. Class 21.

McGraw Electric Company, Elgin, Ill. Chemical compositions. Serial No. 591,939, Nov. 21. Class 6.

McGraw Electric Company, Elgin, Ill. Electrical appliances. Serial No. 591,941, Nov. 21. Class 21.

McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston rings; expander springs and shims, etc. Serial No. 595,793, Nov. 21. Class 35.

Metropolis Candy Co., Inc., New York, N. Y. Candy. Serial No. 591,098, Nov. 21. Class 46.

Metropolitan Industries, Inc., Chicago, Ill. Cameras. Serial No. 573,666, Nov. 21. Class 26.

Moran, Frances T., doing business as The Goggin Company, Arlington, Va. Cakes. Serial No. 573,671, Nov. 21. Class 46.

Morton Salt Company, assignee: *See*—
Ruggles & Rademaker Salt Company.

Mueller Co., Decatur, Ill. Finished brass forgings. Serial No. 545,150, Nov. 21. Class 13.

Murphy, Catherine K., New York, N. Y. Cigarette lighters. Serial No. 595,847, Nov. 21. Class 8.

Mylan Manufacturing Co., Inc., New York, N. Y. Men's and boys' shirts. Serial No. 584,371, Nov. 21. Class 39.

National Battery Company, St. Paul, Minn. Electric storage batteries. Serial No. 583,358, Nov. 21. Class 21.

New England General Store, The: *See*—
Hammond, William J.

No-Sag Spring Company, Warren Township, Macomb County, Mich. Springs, spring assemblies, and units for upholstered furniture. Serial No. 512,014, Nov. 21. Class 32.

Nuodex Products Co., Inc., Elizabeth, N. J. Mildewproofing agent. Serial No. 592,002, Nov. 21. Class 6.

Nu-Pro Corporation, Chicago, Ill. Beverage stirrers. Serial No. 587,692, Nov. 21. Class 23.

O'Brien, Joseph W., doing business under the firm name of Food Service Products, Los Angeles, Calif. Electric food warmer. Serial No. 593,497, Nov. 21. Class 21.

Olson, Lester M., Portland, Oreg. Sanitary foot rests. Serial No. 591,948, Nov. 21. Class 32.

Organon Inc., Orange, N. J. Medicinal preparation. Serial Nos. 592,277–9, Nov. 21. Class 18.

Orleans Canning Company, Chicago, Ill. Canned dog food. Serial No. 587,498, Nov. 21. Class 46.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Sheets of fibrous material. Serial No. 579,380, Nov. 21. Class 12.

Parke, Davis & Company, Detroit, Mich. Antihistamine preparation. Serial No. 593,366, Nov. 21. Class 18.

Perfect Trouser Co., Philadelphia, Pa. Trousers for men and boys. Serial No. 569,531, Nov. 21. Class 39.

Perfumería Gal, S. A., Madrid, Spain. Colognes; toilet lotions, bay rum; etc. Serial No. 556,473, Nov. 21. Class 51.

Permo Incorporated, Chicago, Ill. Phonograph styli and needles. Serial No. 559,424, Nov. 21. Class 36.

Permoflux Corporation, Chicago, Ill. Electrically operated dictating machines. Serial No. 590,233, Nov. 21. Class 21.

Perry Processes, Incorporated, Cleveland, Ohio. Molded corrugated paper. Serial No. 591,103, Nov. 21. Class 37.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 590,561, Nov. 21. Class 18.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 593,084, Nov. 21. Class 46.

Plastic Corporation of Chicago, Cicero, Ill. Foundry equipment. Serial No. 550,730, Nov. 21. Class 23.

Plibrico Jointless Firebrick Company, Chicago, Ill. Equipment for providing streams of air forced into a furnace firebox. Serial No. 584,075, Nov. 21. Class 34.

Poinsetter Creations, Winnetka, Ill. Toy figures. Serial No. 588,105, Nov. 21. Class 22.

Proie & Coogan Heating Company, Pittsburgh, Pa. Electrical water heaters and for electric controls, etc. Serial No. 587,222, Nov. 21. Class 21.

Pullman Couch Company, Chicago, Ill. Upholstered sofas and chairs. Serial No. 591,953, Nov. 21. Class 32.

Ray Oil Burner Co., San Francisco, Calif., assignor to Ray Oil Burner Co. Gear-type fuel supply pumps; steam drive pump sets, etc. Serial No. 561,768, Nov. 21. Class 23.

Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Men's hosiery, neckties, outer shirts, underwear, etc. Serial No. 527,953, Nov. 21. Class 39.

Redhead, Edward B., Malverne, N. Y. Silverware racks. Serial No. 592,163, Nov. 21. Class 32.

Reeves Brothers, Inc., New York, N. Y. Piece goods. Serial No. 597,095, Nov. 21. Class 42.

Reimann, Leo D., doing business under the assumed business name of Full Run Carbon Saver Co., Salem, Oreg. Carbon adaptors and carbon savers for motion picture projectors. Serial No. 590,562, Nov. 21. Class 26.

Rheostatic Company Limited, The, Slough, Buckinghamshire, England. Electric motor actuated and solenoid actuated valves. Serial No. 547,151, Nov. 21. Class 21.

Richards-Wilcox Manufacturing Company, Aurora, Ill. Elevator door accessories. Serial No. 527,245, Nov. 21. Class 13.

Richardson Company, The, Lockland, Cincinnati, Ohio. Molded hard rubber X-ray development tanks, tank frames and tank covers. Serial No. 583,493, Nov. 21. Class 26.

Robinson, Albert P., doing business under the assumed name of Tristop Co., Seattle, Wash. Portable circulating fireplace heaters. Serial No. 595,561, Nov. 21. Class 34.

Rohm & Haas Company, Philadelphia, Pa. Agricultural acaricides, insecticides, and fungicides. Serial No. 591,867, Nov. 21. Class 6.

Ross, Theo., doing business as Theo. Ross Associates, Los Angeles, Calif. Preparation for use as a germicide, disinfectant, deodorant and sterilizing agent. Serial No. 575,930, Nov. 21. Class 18.

Ross, Theo., Associates: *See*—
Ross, Theo.

Royal Crystal Salt Company, Salt Lake City, Utah. Salt. Serial No. 540,319, Nov. 21. Class 46.

Rubin, Harry, New York, N. Y. Booklets. Serial No. 589,042, Nov. 21. Class 38.

Ruggles & Rademaker Salt Company, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill. Salt. Serial No. 540,718, Nov. 21. Class 46.

S. A. F. I. E. X.: *See*—
Forat, Antoine H.

S & C Electric Company, Chicago, Ill. Interrupter switches. Serial No. 573,200, Nov. 21. Class 21.

S. F. Appliances, Limited, Ridgefield, N. J. Electric smoothing irons. Serial No. 564,971, Nov. 21. Class 21.

S and P Sales Company, Seattle, Wash. Canned fish. Serial No. 565,817, Nov. 21. Class 46.

St. Anthony Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.

Schenley Laboratories, Inc., New York, N. Y. Chemotherapeutic agent. Serial Nos. 592,392–3, Nov. 21. Class 18.

Schering Corporation, Bloomfield, N. J. Lollipops containing antibiotic medication. Serial No. 568,535, Nov. 21. Class 6.

Schleyer, E. C., Pump Company, Inc., Anderson, Ind. Non-self-measuring pumps, valves, fittings, etc. Serial No. 588,521, Nov. 21. Class 23.

Schuler Potato Chip Co., Inc., Rochester, N. Y. Potato wafers. Serial No. 591,051, Nov. 21. Class 46.

Scientific Design Company, Inc., Dover, Del., and New York, N. Y. Drafting and preparation of specification for clients. Serial No. 573,100, Nov. 21. Class 103.

Sears, Roebuck and Co., Chicago, Ill. Shower stalls, chemical toilets, closet seats, etc. Serial No. 550,444, Nov. 21. Class 13.

Seiberling Rubber Company, Barberton, Ohio. Pneumatic rubber tires. Serial No. 565,656, Nov. 21. Class 35.

Sentinel Radio Corporation, Evanston, Ill. Radio receiving sets, radio-phonograph combinations, electric phonographs, etc. Serial No. 583,218, Nov. 21. Class 21.

Siegel, Morris, Wilkes-Barre, Pa. Canned vegetables. Serial No. 582,245, Nov. 21. Class 46.

Sleepmaster Products Company, Inc., Newark, N. J. Mattresses, bed springs, box springs, etc. Serial No. 567,719, Nov. 21. Class 32.

Société Pour La Protection de L'Élevage, Lyon, Rhone, France. Disinfectants, insecticides, and fungicides. Serial No. 590,391, Nov. 21. Class 6.

Southgate Brokerage Co. Inc., doing business as Southgate Foods Co., Norfolk, Va. Canned vegetables, prepared mustard and mustard bran, etc. Serial No. 584,086, Nov. 21. Class 46.

Southgate Foods Co.: *See*—
Southgate Brokerage Co. Inc.

Spanos, Pepter A., doing business under the name of Filtair, San Francisco, Calif. Grease-trapping and filtering devices. Serial No. 525,969, Nov. 21. Class 13.

Spear Lighting Fixture Mfg. Co., Brooklyn, N. Y. Electric table lamps. Serial No. 576,170, Nov. 21. Class 21.

Stanolind Oil and Gas Company, Tulsa, Okla. Oil-well services. Serial No. 579,764, Nov. 21. Class 103.

Stratoliter Company, Kansas City, Mo. Cigarette lighters. Serial No. 589,923, Nov. 21. Class 8.

Sunbeam Corporation, Chicago, Ill. Electric egg cookers. Serial No. 594,501, Nov. 21. Class 21.

Sunny Jim Candy Company, Joplin, Mo. Candy. Serial No. 494,720, Nov. 21. Class 46.

Suppiger, G. S., Company, The, St. Louis, Mo. Machines for depositing flavoring material tablets and capsules in cans and other containers. Serial No. 554,172, Nov. 21. Class 23.

Swartz, Mark A., doing business as Atlantic Fabrics Co., Boston, Mass. Fibrous material. Serial No. 587,568, Nov. 21. Class 50.

Sylvania Electric Products Inc., New York, N. Y. Television antennas. Serial Nos. 594,868–9, Nov. 21. Class 21.

Table Games, Incorporated, Skokie, Ill. Mechanical device for playing a game. Serial No. 585,402, Nov. 21. Class 22.

Tex-O-Kan Flour Mills Co., Dallas, Tex. Wheat flour. Serial No. 599,679, Nov. 21. Class 46.

Tobin Packing Co., Inc., Rochester and Albany, N. Y. Boned, cured and smoked meat products. Serial No 558,970, Nov. 21. Class 46.

Toolmasters Limited, Hillingdon Heath, England. Copying machines. Serial No. 563,440, Nov. 21. Class 23.

Torbitt & Castleman Company, The, Louisville, Ky. Table syrups. Serial No. 537,839, Nov. 21. Class 46.

Torbitt & Castleman Company, The, Louisville, Ky. Table syrups. Serial No. 537,842, Nov. 21. Class 46.

Town Talk Polish Company, Manchester, England. Metal polishes and polishing cloths, etc. Serial No. 568,286, Nov. 21. Class 4.

Tristop Co.: *See*—
Robinson, Albert P.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Undertakers Supply Company, Chicago, Ill. Embalming fluid. Serial No. 591,329, Nov. 21. Class 6.

Union Insulating Co., Parkersburg, W. Va. Electric wiring devices. Serial No. 594,736, Nov. 21. Class 21.

Unique Art Manufacturing Company, Inc., Newark, N. J. Jointed toy monkey. Serial No. 555,466, Nov. 21. Class 22.

United Cheese Co.: *See*—
United Cheese Corp.

United Cheese Corp., doing business as United Cheese Co., Chicago, Ill. Cheese. Serial No. 577,757, Nov. 21. Class 46.

United States Steel Products Company, New York, N. Y. Mop wringers. Serial No. 594,342, Nov. 21. Class 23.

Van Der Heem, N. V., The Hague, Netherlands. Electrically operated handtools. Serial No. 556,037, Nov. 21. Class 21.

Victoria Avenue Citrus Association, Riverside, Calif. Fresh citrus fruits. Serial No. 544,488, Nov. 21. Class 46.

Walker Process Equipment Inc., Aurora, Ill. Equipment for treating sewage and other water borne waste, etc. Serial No. 540,503, Nov. 21. Class 23.

Ward Manufacturing Co., Chicago, Ill. Antennas. Serial No. 590,401, Nov. 21. Class 21.

Watchemoket Optical Company, Inc., Providence, R. I. Spectacles, goggles and eyeshields. Serial No. 593,306, Nov. 21. Class 26.

Weeks, Charles M., doing business as Weeks Valve Company, Takoma Park, Md. String controlled toy wheel. Serial No. 582,006, Nov. 21. Class 22.

Weeks Valve Company: *See*—
Weeks, Charles M.

Wessex Aircraft Engineering Company, Limited, Middle Woodford, Salisbury, England. Fumigants and insecticides. Serial No. 589,540, Nov. 21. Class 6.

Wesson Oil & Snowdrift Co., Inc., New Orleans, La. Canned shrimp, canned oysters, canned crabmeat, etc. Serial No. 585,466, Nov. 21. Class 46.

Western States Bean Cooperative, Denver, Colo. Dry beans. Serial Nos. 557,977–8, Nov. 21. Class 46.

Westinghouse Electric Corporation, Pittsburgh and Beaver, Pa. Electromagnetic controllers. Serial No. 592,963, Nov. 21. Class 21.

Willard Storage Battery Company, Cleveland, Ohio. Storage battery chargers. Serial Nos. 592,174–5, Nov. 21. Class 21.

Williams, J. H., & Co., Buffalo, N. Y. Wrenches. Serial No. 590,819, Nov. 21. Class 23.

Wilsolve Corporation, Baltimore, Md. Solvents. Serial No. 584,708, Nov. 21. Class 52.

Woodward, Gordon K., doing business under the firm name or style of Basic Supplements Co., Los Angeles, Calif. Vitamin, mineral, and amino acid compounds, etc. Serial No. 525,739, Nov. 21. Class 18.

Woods and Waters Inc., Vicksburg, Mich. Display racks. Serial No. 588,749, Nov. 21. Class 32.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Germicidal composition. Serial No. 591,534, Nov. 21. Class 6.

Youngstown Manufacturing, Incorporated, Youngstown, Ohio. Price tag moulding. Serial No. 592,354, Nov. 21. Class 13.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof. Serial Nos. 579,770–2, Nov. 21. Class 21.

Zenith Radio Corporation, Chicago, Ill. Radio and television receiving apparatus and parts thereof. Serial Nos. 594,167–9, Nov. 21. Class 21.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Insufflator. 533,772, Nov. 21; Serial No. 585,984, published Aug. 8, 1950. Class 44.

Abdulla & Company Limited, London, England. Cigarettes and smoking tobacco. 79,623, Sept. 20, 1910. Republished Nov. 21. Class 17.

Abrasive Products, Inc., South Braintree, Mass. Flexible abrasive sheet material. 533,557, Nov. 21; Serial No. 537,272, published Aug. 15, 1950. Class 4.

Absorb-All Mfg. Co.: *See*—
Power, William.

Ace Manufacturing Company: *See*—
Comfort Manufacturing Co.

Acton Tanning Company Limited, to Beardmore & Co. Limited, Acton, Ontario, Canada. Leather, and particularly sole leather. 266,792, renewed Feb. 4, 1950. O. G. Nov. 21. Class 1.

Adeco Products, Inc.: *See*—
Aircraft & Diesel Equipment Corporation.

Aircraft & Diesel Equipment Corporation to Adeco Products, Inc., Chicago, Ill. Diesel engine equipment. 389,089, July 22, 1941. New certificate. O. G. Nov. 21. Class 23.

Aircraft & Diesel Equipment Corporation to Adeco Products, Inc., Chicago, Ill. Diesel engine equipment. 509,601, May 10, 1949. New certificate. O. G. Nov. 21. Class 23.

Albany Billiard Ball Company, Albany, N. Y. Billiard, pool, snooker, and bagatelle balls. 278,289, renewed Dec. 16, 1950. O. G. Nov. 21. Class 22.

Albany Billiard Ball Company, Albany, N. Y. Billiard, pool, snooker, and bagetelle balls. 278,392–3, renewed Dec. 16, 1950. O. G. Nov. 21. Class 22.

Allied Precision Industries, Inc., Chicago, Ill. Clocks. 533,788, Nov. 21; Serial No. 587,604, published Aug. 22, 1950. Class 27.

Amberine Products Corporation, Columbus, Ohio. Solvent preparation for use in internal combustion engines, etc. 533,581, Nov. 21; Serial No. 549,866, published Aug. 8, 1950. Class 15.

Ambrosia Chocolate Company, Milwaukee, Wis. Chocolate coating. 533,701, Nov. 21; Serial No. 581,231, published June 27, 1950. Class 46.

American Cigar Company, to The American Tobacco Company, New York, N. Y. Cigars, cigarettes, and smoking tobacco. 277,093, renewed Nov. 4, 1950. O. G. Nov. 21. Class 17.

American Cyanamid Company, New York, N. Y. Insecticides, rodenticides, fumigants, etc. 533,662, Nov. 21; Serial No. 577,027, published Aug. 15, 1950. Class 6.

American Desk Manufacturing Company, Temple, Tex. Tables. 533,688, Nov. 21; Serial No. 580,275, published Aug. 1, 1950. Class 32.

American Grease Stick Company, Muskegon Heights and Muskegon, Mich. Lubricant. 533,714, Nov. 21; Serial No. 582,263, published Aug. 15, 1950. Class 15.

American Heating & Appliance Company, Philadelphia, Pa. Combination windows and screens. 538,815, Nov. 21; Serial No. 559,489. Class 12.

American Hide and Leather Company, Boston, Mass. Calf leather. 277,787, Nov. 25, 1930. Republished Nov. 21. Class 1.

American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Drying machines. 274,725, renewed Sept. 2, 1950. O. G. Nov. 21. Class 24.

American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Dry-cleaning plants or systems. 275,594, renewed Sept. 23, 1950. O. G. Nov. 21. Class 24.

American Tissue Mills, Holyoke, Mass. Wrapping, waxed and tissue papers. 533,814, Nov. 21; Serial No. 556,699. Class 37.

American Tobacco Company, The: *See*—
American Cigar Company.

American Tobacco Company, The, New York, N. Y. Chewing tobacco. 278,807, renewed Dec. 30, 1950. O. G. Nov. 21. Class 17.

Amity Leather Products Co.: *See*—
Lewis, Claude A.

Appleton-Atlas Car Mover Corp.: *See*—
McLeish, Wm.

Archuleta, Manuel, Albuquerque, N. Mex. Mechanically grooved phonograph records. 533,831, Nov. 21; Serial No. 580,007. Class 36.

Argiro Hermanos, Buenos Aires, Argentina. Sewing machines, electric shavers, electric cloth cutting machines, etc. 533,803, Nov. 21; Serial No. 519,819. Class 23.

Armstrong Manufacturing Co., The, Bridgeport, Conn. Dies of all types. 533,646, Nov. 21; Serial No. 574,482, published June 27, 1950. Class 23.

Atlas Tack Corporation, Fairhaven, Mass. Furniture nails and furniture glides. 533,691, Nov. 21; Serial No. 580,640, published Aug. 15, 1950. Class 13.

Atwood Coffee Co.: *See*—
Atwood Coffee Company.

Atwood Coffee Company, doing business as Atwood Coffee Co., Minneapolis, Minn. Coffee. 533,574, Nov. 21; Serial No. 546,170, published July 18, 1950. Class 46.

B & E Products Co.: *See*—
Botley, William H.

B & M Mattress Company: *See*—
Patterson, Raleigh E.

Badger Paper Mills, Inc., Peshtigo, Wis. Watermarked sulphite writing papers. 533,781, Nov. 21; Serial No. 586,128, published Aug. 22, 1950. Class 37.

Baker, Susan, Products, Inc., assignor to Natural Sugars, Inc., New York, N. Y., now by change of name Fruit Products Corporation. Sweet mixed pickles; fresh cucumbers, sweet pickle chips, etc. 533,563, Nov. 21; Serial No. 540,752, published June 13, 1950. Class 46.

Ball, F. M., & Company, Oakland, Calif. Canned mixed fruits. 533,809, Nov. 21; Serial No. 541,070. Class 46.

Ballard & Ballard Co., Louisville, Ky. Wheat flour and self-rising flour. 262,922, Oct. 29, 1929. Republished Nov. 21. Class 46.

Ballard & Ballard Co., Louisville, Ky. Wheat flour and self-rising flour. 263,144, Oct. 29, 1929. Republished Nov. 21. Class 46.

Ballard & Ballard Co., Louisville, Ky. Wheat flour and self-rising flour. 267,781, Mar. 4, 1930. Republished Nov. 21. Class 46.

Balsamo, Louis F., doing business as The Disket Co., Chicago, Ill. Inserts designed to be used in the bowls of smoking pipes. 533,598, Nov. 21; Serial No. 560,857, published Aug. 15, 1950. Class 8.

Balston, W. & R., Limited, Maidstone, Kent, England. Filter paper. 533,715, Nov. 21; Serial No. 582,388, published July 18, 1950. Class 31.

Bar-Brook Manufacturing Company, Inc., The: *See*—
Barnes, Taylor.

Barnes, Taylor, doing business as Shreveport Engineering Company, assignor to The Bar-Brook Manufacturing Company, Inc., by The Bar-Brook Manufacturing Company, Inc., Shreveport, La. Electrical ventilating fans. 444,066, July 4, 1950. Republished Nov. 21. Class 21.

Barron, Anderson, Company, Boston, Mass. Men's topcoats, overcoats, suits, etc. 273,331, renewed July 29, 1950. O. G. Nov. 21. Class 39.

Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use. 533,766, Nov. 21; Serial No. 585,508, published Aug. 22, 1950. Class 18.

Bay West Paper Company, Green Bay, Wis. Paper towels. 533,823, Nov. 21; Serial No. 575,619. Class 37.

Bay West Paper Company, Green Bay, Wis. Paper towels. 533,825, Nov. 21; Serial No. 576,031. Class 37.

Beam Chemical Co.: *See*—
Gauger, Robert F.

Beardmore & Co. Limited: *See*—
Acton Tanning Company Limited.

Benger's Limited, Ipswich and Cheshire, England. Pharmaceutical preparation. 533,739, Nov. 21; Serial No. 583,910, published Aug. 22, 1950. Class 18.

Best Made Bedding Co.: *See*—
Weisman, Max.

Bevis, Palmer: *See*—
Child Welfare Guild, Inc.

Blish Milling Company, Seymour, Ind. Wheat flour. 533,570, Nov. 21; Serial No. 544,318, published July 18, 1950. Class 46.

Bloomingdale Bros., Inc., New York, N. Y., to Federated Department Stores, Inc., Cincinnati, Ohio. Carpet sweepers. 278,766, renewed Dec. 30, 1950. O. G. Nov. 21. Class 29.

Bode, Joe C., Jr., doing business under the name Manson Distributors, Aurora, Ill. Window cleaner and polish. 533,576, Nov. 21; Serial No. 547,100, published Aug. 15, 1950. Class 4.

Bonacio, Jacob P., Cold Spring, N. Y. Salve. 533,744, Nov. 21; Serial No. 584,216, published Aug. 22, 1950. Class 18.

Boston Metal Products Co.: *See*—
Rubin, Irving.

Botany Mills, Inc.: *See*—
Garfield Worsted Mills.

Botley, William H., doing business as B & E Products Co., Columbus, Ohio. Removable lip-protecting sleeves or mouthpieces for articles of smoking tobacco. 533,784, Nov. 21; Serial No. 586,464, published Aug. 22, 1950. Class 8.

Boucher, Marcel, et Cie, New York, N. Y. Watches, and watches and attached bracelets sold as a unit. 533,667, Nov. 21; Serial No. 577,421, published Aug. 22, 1950. Class 27.

Bowles Brother: *See*—
Bowles, William A.

Bowles, William A., doing business as Bowles Brother, to Silver Spring Beverages Incorporated, Brockton, Mass. Ginger ale. 275,858, renewed Sept. 30, 1950. O. G. Nov. 21. Class 45.

Brach, E. J., & Sons, Chicago, Ill. Merchandise display case. 533,732, Nov. 21; Serial No. 583,325, published Aug. 1, 1950. Class 32.

Braddock Frosted Foods, Inc., Braddock, N. J. Cut corn, broccoli, peaches, etc. 533,802, Nov. 21; Serial No. 519,728. Class 46.

Bradley, Milton, Company, Springfield, Mass. Games. 277,566, renewed Nov. 18, 1950. O. G. Nov. 21. Class 22.

Bradley, Milton, Company, Springfield, Mass. Paper for posters. 533,740, Nov. 21; Serial No. 583,911, published Aug. 22, 1950. Class 37.

Bradner Smith & Company: *See*—
Wroe, W. E., & Company.

Breneman, Chas. W., Company, The, Cincinnati, Ohio. Window shades. 533,730, Nov. 21; Serial No. 583,240, published Aug. 1, 1950. Class 32.

Brightwater Paper Company, Dover, Del., and Adams, Mass. Writing paper. 533,807, Nov. 21; Serial No. 531,085. Class 37.

Brooks, Val M., doing business as Val M. Brooks Golf Co., Okoboji, Iowa. Score cards. 533,611, Nov. 21; Serial No. 565,229, published Aug. 22, 1950. Class 37.

Brooks, Val M., Golf Co.: *See*—
Brooks, Val M.

Brown & Bigelow, St. Paul, Minn. Wall calendars, picture mailing cards, and greeting cards. 533,596, Nov. 21; Serial No. 560,179, published July 4, 1950. Class 38.

Bruce, David E., Calhan, Colo. Preparation for the treatment of hay fever and asthma. 533,617, Nov. 21; Serial No. 566,566, published July 25, 1950. Class 18.

Bryan Full Fashioned Mills, Chattanooga, Tenn. Hosiery. 533,661, Nov. 21; Serial No. 576,791, published Aug. 15, 1950. Class 39.

Buckeye Soda Company, The, Painesville, Ohio. Lye. 533,647, Nov. 21; Serial No. 574,686, published Aug. 15, 1950. Class 6.

Buffalo Evening News, to E. H. Butler, individually and as trustee under the last will and testament of E. H. Butler, deceased, doing business as Buffalo Evening News, Buffalo, N. Y. Newspaper column. 273,925, renewed Aug. 19, 1950. O. G. Nov. 21. Class 38.

Bulova Watch Company, Inc., New York, N. Y. Watches. 444,330, Nov. 21; Serial No. 523,742, published Aug. 22, 1950. Class 27.

Bunte Brothers, Chicago, Ill. Candies. 533,555, Nov. 21; Serial No. 536,998, published July 18, 1950. Class 46.

Burlington Mills Incorporated, Burlington, Wis. Ironing board pads and ironing board covers. 533,607, Nov. 21; Serial No. 563,898, published Aug. 8, 1950. Class 24.

Butler, Edward H.: *See*—
Buffalo Evening News.

Call, Minnie T., doing business under the name and style of Radian Wash Solution Co., Olean, N. Y. Insecticide and household deodorant. 533,731, Nov. 21; Serial No. 583,241, published Aug. 29, 1950. Class 6.

Camp, Wm. A., Co., Inc., New York, N. Y. Nuts in the shell. 533,551, Nov. 21; Serial No. 533,990, published July 11, 1950. Class 46.

Campbell, Phoebe, Montreal, Quebec, Canada, by Satinol, Inc., Chicago, Ill. Perfume preparation. 348,354, July 27, 1937. Republished Nov. 21. Class 51.

Cape Fear Cold Storage Company, Fort Fisher and Kure Beach, N. C. Frozen sea foods. 538,828, Nov. 21; Serial No. 577,875. Class 46.

Case, W. A., and Son Manufacturing Company, Buffalo, N. Y. Plumbing fixtures. 533,765, Nov. 21; Serial No. 585,425, published Aug. 15, 1950. Class 13.

Cataract Refining and Manufacturing Company, Buffalo, to Swan-Finch Oil Corporation, New York, N. Y. Lubricating grease and yarn-grease. 80,268, re-renewed Nov. 29, 1950. O. G. Nov. 21. Class 15.

Central Packing Company, Monterey, Calif. Canned fish. 533,695, Nov. 21; Serial No. 580,768, published July 11, 1950. Class 46.

Chamberlain, F. B., Company, St. Louis, Mo. Article of food. 79,648, re-renewed Sept. 17, 1950. O. G. Nov. 21. Class 46.

Chicago Electric Manufacturing Company, Chicago, Ill. Portable electric laundry washers. 533,583, Nov. 21; Serial No. 551,528, published Oct. 11, 1949. Class 24.

Child Welfare Guild, Inc., New Haven, Conn., to P. Bevis, New York, N. Y. Liquid preparation to prevent people from bitting their finger nails. 170,703, renewed May 13, 1950. O. G. Nov. 21. Class 51.

Chippewa Paper Products Co., Inc., Chicago, Ill. Corrugated paper, wrapping paper, and paper for making paper containers. 533,775, Nov. 21; Serial No. 586,046, published Aug. 22, 1950. Class 37.

Choice Foods, Inc., Minneapolis, Minn. Prepared doughnut mix. 533,816, Nov. 21; Serial No. 560,683. Class 46.

Cincinnati Mine Machinery Co., The, Cincinnati, Ohio. Cutter bits, cradles, bit holders and set screws therefor. 533,790, Nov. 21; Serial No. 589,836, published Aug. 8, 1950. Class 23.

Clarke, W. G., & Sons (1929) Limited, London, England. Dog, cat, and poultry biscuit feeds. 533,668, Nov. 21; Serial No. 577,944, published June 27, 1950. Class 46.

Classtex, Inc., Orwigsburg, Pa. Infants' diapers. 533,678, Nov. 21; Serial No. 579,396, published Aug. 15, 1950. Class 39.

Cleaners Control Systems, Inc., assignor to H. C. Hayslip, Atlanta, Ga. Tags for the purpose of identification in dry cleaning, etc. 533,565, Nov. 21; Serial No. 541,092, published Aug. 15, 1950. Class 24.

Clearing Machine Corporation, Chicago, Ill. Metal forming and stamping presses and parts therefor. 533,795, Nov. 21; Serial No. 595,765, published Aug. 1, 1950. Class 23.

Club Aluminum Products Company, Chicago, Ill. Cast aluminum utensils. 533,559, Nov. 21; Serial No. 537,987, published Aug. 22, 1950. Class 13.

Club Aluminum Products Company, Chicago, Ill. Impregnated steel wool pads. 533,651, Nov. 21; Serial No. 575,194, published Aug. 15, 1950. Class 4.

Comfort Manufacturing Co., to Ace Manufacturing Company, Chicago, Ill. Shaving creams. 280,016, renewed Feb. 10, 1951. O. G. Nov. 21. Class 51.

Commerce of California, Los Angeles, Calif. Preserved fruit products. 533,619, Nov. 21; Serial No. 567,132, published July 11, 1950. Class 46.

Commercial Solvents Corporation, New York, N. Y. Riboflavin concentrate. 533,669, Nov. 21; Serial No. 578,116, published July 11, 1950. Class 46.

Comstock Canning Corporation, Newark, N. Y. Canned vegetables, fruits, and apple juice. 533,545, Nov. 21; Serial No. 532,563, published July 11, 1950. Class 46.

Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. 533,535, Nov. 21; Serial No. 507,110, published Aug. 29, 1950. Class 37.

Corn Products Refining Company, New York, N. Y. Glucose or corn syrup. 278,159, renewed Dec. 9, 1950. O. G. Nov. 21. Class 46.

Coro, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. 533,727, Nov. 21; Serial No. 582,950, published Aug. 22, 1950. Class 28.

Cowan, Fay V., Albuquerque, N. Mex. Fried peanuts. 533,650, Nov. 21; Serial No. 574,998, published July 11, 1950. Class 46.

Daggett & Ramsdell, New York, N. Y., to Daggett & Ramsdell, Inc., Newark, N. J. Cold cream. 273,291, renewed July 29, 1950. O. G. Nov. 21. Class 51.

Daggett & Ramsdell, New York, N. Y., to Daggett & Ramsdell, Inc., Newark, N. J. Cleansing puffs and absorbent puffs. 273,752, renewed Aug. 12, 1950. O. G. Nov. 21. Class 29.

Daggett & Ramsdell, New York, N. Y., to Daggett & Ramsdell, Inc., Newark, N. J. Toilet creams, toilet lotions, toilet powders, etc. 273,973–4, renewed Aug. 19, 1950. O. G. Nov. 21. Class 51.

Daggett & Ramsdell, New York, N. Y., to Daggett & Ramsdell, Inc., Newark, N. J. Toilet creams, toilet lotions, toilet powders, etc. 274,005, renewed Aug. 19, 1950. O. G. Nov. 21. Class 51.

Daggett & Ramsdell, New York, N. Y., to Daggett & Ramsdell, Inc., Newark, N. J. Soap and shaving cream. 274,006–7, renewed Aug. 19, 1950. O. G. Nov. 21. Class 51.

Daggett & Ramsdell, Inc.: *See*—
Daggett & Ramsdell.

Daitch, L., & Co., Inc., New York, N. Y. Butter, cheese, fresh eggs, and canned milk. 533,659, Nov. 21; Serial No. 576,524, published June 27, 1950. Class 46.

Dare Products, Incorporated, Battle Creek, Mich. Electric fence post assemblies, and parts thereof. 533,822, Nov. 21; Serial No. 574,664. Class 21.

Dawnwood Farms: *See*—
Long, Dorothy A.

Delman Corporation, The, Des Moines, Iowa. Vehicle windshield washer. 533,821, Nov. 21; Serial No. 574,350. Class 19.

Deltafor Aktiebolag, Orebro, Sweden. Vitamin and mineral containing yeast preparation. 533,558, Nov. 21; Serial No. 537,390, published July 11, 1950. Class 46.

Dennison & Sons, Long Island City, N. Y. Bank checks, drafts, and personalized checks. 533,770, Nov. 21; Serial No. 585,834, published Aug. 22, 1950. Class 37.

Derby, Robert W., doing business as R-H Products Company, South Acton, Mass. Solvent type cement. 533,776, Nov. 21; Serial No. 586,081, published July 25, 1950. Class 5.

Dicks, C. O., Co., Detroit, Mich. Gummed paper. 538,801, Nov. 21; Serial No. 519,467. Class 37.

Dictograph Products Company, Inc., New York, N. Y. Electrical hearing aids and batteries. 533,760, Nov. 21; Serial No. 585,107, published Aug. 8, 1950. Class 44.

Disket Co., The: *See*—
Balsamo, Louis F.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Cutters and cutter heads. 533,759, Nov. 21; Serial No. 584,860, published July 4, 1950. Class 23.

District of Columbia Paper Mills, Inc., Washington, D. C. Blotting paper, box cover paper, and cover papers. 444,336, Nov. 21; Serial No. 503,505. Class 37.

Donaldson, James E., Chicago, Ill., assignor to Manley Inc., Kansas City, Mo. Popcorn. 444,324, Nov. 21; Serial No. 512,399, published May 11, 1948. Class 46.

Drape, L. Vernon, Fall River, Mass. Frozen scallops. 533,722, Nov. 21; Serial No. 582,680, published June 27, 1950. Class 46.

Du Bois Company, The, Cincinnati, Ohio. Liquid floor wax. 533,737, Nov. 21; Serial No. 583,865, published Aug. 8, 1950. Class 4.

Duplate Corporation, by Pittsburgh Plate Glass Company, Pittsburgh, Pa. Laminated sheet glass. 272,530, July 5, 1930. Republished Nov. 21. Class 33.

Du-Ran Products Co., Durant, Okla. Pharmaceutical preparations. 533,783, Nov. 21; Serial No. 586,403, published Aug. 29, 1950. Class 18.

Duro Wood Products Manufacturing, Cincinnati, Ohio. Fishing floats. 533,833, Nov. 21; Serial No. 585,576. Class 22.

E-Z Mills, Inc., New York, N. Y. Juvenile and boys' sportswear. 533,654, Nov. 21; Serial No. 575,634, published Aug. 15, 1950. Class 39.

Eastern States Farmers' Exchange, West Springfield, Mass. Whole and part grain wheat flours and corn meal, etc. 533,630, Nov. 21; Serial No. 569,359, published June 27, 1950. Class 46.

Eastern States Farmers' Exchange, West Springfield, Mass. Whole and part grain wheat flours and corn meal, and rolled oats and rolled wheat cereals, etc. 533,631, Nov. 21; Serial No. 569,361, published June 27, 1950. Class 46.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras. 533,658, Nov. 21; Serial No. 576,484, published Aug. 8, 1950. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras. 533,719, Nov. 21; Serial No. 582,525, published June 27, 1950. Class 26.

Eckhart, B. A., Milling Co., Chicago, Ill. Wheat flour. 533,575, Nov. 21; Serial No. 546,978, published June 20, 1950. Class 46.

Electric Game Company, Inc., Holyoke, Mass. Board games. 538,810, Nov. 21; Serial No. 542,391. Class 22.

Electric Tachometer Corporation, The, Philadelphia, Pa. Electrical and mechanical tachometers. 533,712, Nov. 21; Serial No. 582,219, published June 20, 1950. Class 26.

Elgin, Clarence E., doing business as Pediatric Products Co., Anderson, S. C. Local anaesthetic. 533,677, Nov. 21; Serial No. 579,378, published Aug. 22, 1950. Class 18.

Enoch Packing Company, also doing business as Enoch Packing Co., Inc., Del Rey, Calif. Raisins. 533,751, Nov. 21; Serial No. 584,485, published July 11, 1950. Class 46.

Enoch Packing Co., Inc.: *See*—
Enoch Packing Company.

Enterprise Manufacturing Company, The, Akron, Ohio. Spinners. 273,561, renewed Aug. 5, 1950. O. G. Nov. 21. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 273,825, renewed Aug. 12, 1950. O. G. Nov. 21. Class 22.

Erickson Chemical Company: *See*—
Erickson, Emery T.

Erickson, Emery T., doing business as Erickson Chemical Company, Chicago, Ill. Chemicals. 533,629, Nov. 21; Serial No. 568,841, published Aug. 29, 1950. Class 6.

Esco Engineering Corporation: *See*—
Fraser, Thomas J.

Eskimo Pie Corporation, Bloomfield, N. J. Frozen ice cream bars. 533,685, Nov. 21; Serial No. 580,127, published July 11, 1950. Class 46.

Eskimo Pie Corporation, Bloomfield, N. J. Coating for ice cream bars. 533,818, Nov. 21; Serial No. 566,126. Class 46.

Essex Wire Corporation, Detroit, Mich. Insulated electric wires, insulated electric cables, and electrical insulating material. 538,826, Nov. 21; Serial No. 577,176. Class 21.

Eversharp, Inc., assignee: *See*—
Russo, Salvatore.

Exact Weight Scale Company, The, Columbus, Ohio. Weighing scales and parts thereof. 533,692, Nov. 21; Serial No. 580,654, published June 27, 1950. Class 26.

Federated Department Stores, Inc.: *See*—
Bloomingdale Bros., Inc.

Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Cereal breakfast food. 533,529, Nov. 21; Serial No. 474,307, published July 18, 1950. Class 46.

Fisher Silversmiths, Inc., The, Jersey City, N. J., and New York, N. Y. Sterling silver and silver plated flatware and hollow ware. 533,724, Nov. 21; Serial No. 582,775, published Aug. 22, 1950. Class 28.

Fisher Silversmiths, Inc., The, Jersey City, N. J., and New York, N. Y. Sterling silver and silver plated flatware and hollow ware. 533,725, Nov. 21; Serial No. 582,779, published Aug. 22, 1950. Class 28.

Fitzgerald Products, Inc., Hartford, Conn. Internal medicinal preparation. 533,720, Nov. 21; Serial No. 582,609, published Aug. 22, 1950. Class 18.

Fleming-Hall Tobacco Co., Inc., New York, N. Y. Humidors, cigar and cigarette cases, etc. 533,713, Nov. 21; Serial No. 582,220, published Aug. 15, 1950. Class 8.

Flexon Plastics Company, Cleveland, Ohio. Plastic clothespins. 533,599, Nov. 21; Serial No. 561,455, published Aug. 15, 1950. Class 24.

Food Fair Stores, Inc., Philadelphia, Pa. Coffee and tea. 533,613, Nov. 21; Serial No. 565,331, published July 11, 1950. Class 46.

Formed Products Co., New York and Elmhurst, N. Y. Foldable display stands. 533,761, Nov. 21; Serial No. 585,116, published Aug. 22, 1950. Class 32.

Fox River Paper Corporation, Appleton, Wis. Bond paper. 533,584, Nov. 21; Serial No. 551,630, published Aug. 15, 1950. Class 37.

Franklin, Simon, & Co. Inc., New York, N. Y. Hosiery and gloves. 533,673, Nov. 21; Serial No. 578,901, published Aug. 15, 1950. Class 39.

Fran-Stef Mfg. Co., New York, N. Y. Smokers' articles. 533,642, Nov. 21; Serial No. 574,028, published Aug. 29, 1950. Class 8.

Fraser, Thomas J., doing business as Esco Engineering Company, Cleveland, Ohio., assignee of Esco Engineering Corporation. Drill jigs and clamps. 533,534, Nov. 21; Serial No. 505,565, published July 25, 1950. Class 23.

Friedman, Bert J., Santa Monica, Calif. Reflector device. 533,687, Nov. 21; Serial No. 580,235, published Aug. 8, 1950. Class 44.

Fruit Products Corporation: *See*—
Baker, Susan, Products, Inc.

Frye, Norman, Davenport, Iowa. Unbraced metal portable building. 533,832, Nov. 21; Serial No. 582,905. Class 12.

G-M Laboratories, Inc., Chicago, Ill. Projectors, projector screens, projector cases, projection lamps, etc. 533,728, Nov. 21; Serial No. 583,082, published June 27, 1950. Class 26.

Galban Lobo Company Importing and Exporting Association, S. A., Habana, Cuba. Prepared cereals, lard, tallow, etc. 339,282, Oct. 6, 1936. Restricted. O. G. Nov. 21. Class 46.

Gamble-Skogmo, Inc., Minneapolis, Minn. Clothes washing machines, ironers and mangles. 533,696, Nov. 21; Serial No. 580,881, published July 25, 1950. Class 24.

Garfield Worsted Mills, Garfield, by Botany Mills, Inc., Passaic, N. J. Worsted dress goods. 184,925, June 3, 1924. Republished Nov. 21. Class 42.

Gauger, Robert F., doing business as Beam Chemical Co., Berkeley, Calif. Cleaning preparation. 444,326, Nov. 21; Serial No. 514,268, published Aug. 15, 1950. Class 4.

General Electric Company, Schenectady, N. Y. Lubricating and insulating oils and greases. 533,699, Nov. 21; Serial No. 581,054, published Aug. 8, 1950. Class 15.

General Time Corporation: *See*—
Western Clock Company.
Western Clock Mfg. Co., The.

Gillette Safety Razor Company, Boston, Mass. Safety razor blade magazines and safety razor blade dispensers. 444,328, Nov. 21; Serial No. 521,807, published July 18, 1950. Class 23.

Glassboro Full Fashioned Hosiery Mill: *See*—
McEvoy, Peter P.

Globe Products Co., Inc., Brooklyn, N. Y. Fruit preserves. 533,666, Nov. 21; Serial No. 577,382, published June 27, 1950. Class 46.

Golden Bear Cookie Co. Inc., Long Island City, N. Y., by Golden Bear Cookie Co., Inc. (1942), Clifton, N. J. Cookies. 273,196, July 22, 1930. Republished Nov. 21. Class 46.

Golden Bear Cookie Co., Inc., (1942): *See*—
Golden Bear Cookie Co. Inc.

Gummed Products Company, The, Troy, Ohio. Gummed coated paper sheets. 533,548, Nov. 21; Serial No. 533,736, published Aug. 15, 1950. Class 37.

Gummed Products Company, The, Troy, Ohio. Gummed tape. 533,756, Nov. 21; Serial No. 584,765, published Aug. 8, 1950. Class 5.

Hales & Hunter Co., Chicago, Ill. Feed. 533,572, Nov. 21; Serial No. 544,863, published July 18, 1950. Class 46.

Hall & Co., Inc., Spartanburg, S. C. Pliers, wrenches, screwdrivers, drills, etc. 533,604, Nov. 21; Serial No. 562,852, published June 6, 1950. Class 23.

Hall, J. C., Company, The, Pawtucket, R. I. Checks, letterheads, check books, etc. 533,640, Nov. 21; Serial No. 573,766, published Aug. 15, 1950. Class 37.

Hammermill Paper Company, Erie, Pa. Writing and printing papers. 533,806, Nov. 21; Serial No. 523,966. Class 37.

Hammond, Mark O., doing business as Mohbestos Brake Lining Company, to H. C. McClure, Akron, Ohio. Brake linings. 273,893, renewed Aug. 19, 1950. O. G. Nov. 21. Class 35.

Harris, A. W., Oil Company, East Providence, R. I. Lubricating oils and lubricating greases. 533,672, Nov. 21; Serial No. 578,792, published Aug. 8, 1950. Class 15.

Harris, L., Company, Inc., New York, N. Y. Clocks and watches and parts thereof. 533,773, Nov. 21; Serial No. 585,997, published Aug. 22, 1950. Class 27.

Haudenshield Company, Inc., Pittsburgh, Pa. Fresh tomatoes. 533,546, Nov. 21; Serial No. 532,589, published July 4, 1950. Class 46.

Hawaiian Tuna Packers, Limited, Honolulu, T. H. Canned tuna. 533,542, Nov. 21; Serial No. 530,504, published July 18, 1950. Class 46.

Hayslip, Homer C., assignee: *See*—
Cleaners Control Systems, Inc.

Hecht Brothers: *See*—
Hecht Company, The.

Hecht Company, The, Washington, D. C., also doing business as The Hub, Baltimore, Md., and Hecht Brothers, New York, N. Y. Men's suits, etc. 444,332, Nov. 21; Serial No. 524,459, published May 11, 1948. Class 39.

Heiser, William and Sons Company, Buffalo, N. Y. Manhole-fittings. 77,776, May 3, 1910. Republished Nov. 21. Class 13.

Heller, B., & Company, Chicago, Ill. Preparation consisting of salt, spices, herbs, etc. 533,628, Nov. 21; Serial No. 568,795, published July 11, 1950. Class 46.

Heller Brothers Company, Newark, N. J. Files. 533,794, Nov. 21; Serial No. 595,461, published Aug. 1, 1950. Class 23.

Heller Brothers Company, Newark, N. J. Files, rasps, hammers, etc. 533,796, Nov. 21; Serial No. 597,682, published Aug. 1, 1950. Class 23.

Heublein, G. F., & Bro., Inc., Hartford, Conn. Flavoring sauce. 533,805, Nov. 21; Serial No. 523,265. Class 46.

Hoberg Paper Mills, Inc., Green Bay, Wis. Paper towels. 533,588, Nov. 21; Serial No. 553,109, published Aug. 15, 1950. Class 37.

Hollister, Franklin C., Co.: *See*—
Schneider, John D.

Horlacher Mushroom Farms, Ashtabula, Ohio. Soil, humus and mushroom spawn. 533,634, Nov. 21; Serial No. 571,547, published Apr. 25, 1950. Class 1.

Hub, The: *See*—
Hecht Company, The.

Hydraw Company, assignee: *See*—
Spangberg, Mills E.

Inca Metal Products Company, Incorporated, Birmingham, Ala. Furniture. 533,547, Nov. 21; Serial No. 533,471, published Aug. 22, 1950. Class 32.

Instant Products Manufacturing Company, The: *See*—
Moshier, E. B.

Intermedico Corporation, New York, N. Y. Aspirin. 533,717, Nov. 21; Serial No. 582,435, published Aug. 22, 1950. Class 18.

International Business Machines Corporation, New York, N. Y. Pens, writing pencils, pencil leads. 533,648, Nov. 21; Serial No. 574,840, published May 2, 1950. Class 37.

International Latex Corporation, Dover, Del. Crib and like sheets of plastic film. 518,460, Dec. 6, 1949. Corrected. O. G. Nov. 21. Class 42.

International Latex Corporation, Dover, Del. Tobacco pouches. 533,638, Nov. 21; Serial No. 572,570, published Aug. 22, 1950. Class 8.

International Metal Lath Company, New York, N. Y., to Truscon Steel Company, Youngstown, Ohio. Expanded sheet-metal structures, etc. 35,203, re-renewed Oct. 2, 1950. O. G. Nov. 21. Class 12.

International Shoe Company, St. Louis, Mo. Cotton piece goods. 278,568, renewed Dec. 23, 1950. O. G. Nov. 21. Class 42.

James Manufacturing Company, Fort Atkinson, Wis. Electric germicidal lamps. 533,812, Nov. 21; Serial No. 551,107. Class 21.

Jenkins, T. H., Company, Chicago, Ill. Display racks.

Johnson & Johnson, New Brunswick, N. J. Cotton tips; cotton-tipped applicators; corn and bunion pads, etc. 533,626, Nov. 21; Serial No. 568,632, published Aug. 15, 1950. Class 44.

Joseph, Hilliard H., doing business as Joseph Northwest, Yakima, Wash. Fresh apples. 533,750, Nov. 21; Serial No. 584,458, published July 11, 1950. Class 46.

Joseph Northwest: *See*—
Joseph, Hilliard H.

Junior Literary Guild, Inc., The, to The Literary Guild of America, Inc., Garden City, N. Y. Monthly periodical. 277,741, Nov. 25, 1930. New certificate. O. G. Nov. 21. Class 38.

K and K Products Company, Washington, D. C. Toilet tissue, facial tissue, and paper towels. 533,701, Nov. 21; Serial No. 581,421, published Aug. 22, 1950. Class 37.

Kearney & Trecker Corporation, West Allis, Wis. Machine tools. 533,791, Nov. 21; Serial No. 592,323, published July 18, 1950. Class 23.

Keeney, Paul E., Portland, Oreg. Forged tools. 533,579, Nov. 21; Serial No. 548,744, published Aug. 22, 1950. Class 13.

Kerr Manufacturing Company, Detroit, Mich. Diamond-coated grinding wheel. 533,616, Nov. 21; Serial No. 566,524, published Aug. 15, 1950. Class 4.

Kerrigan Iron Works, Inc., Nashville, Tenn. Gratings for floors, stair treads, and wall partitions. 533,821, Nov. 21; Serial No. 575,650. Class 12.

Kiddie Kornice Co.: *See*—
Parkola, Sam.

Kingsley, Leon G., New York, N. Y. Tanning compound. 533,830, Nov. 21; Serial No. 579,503. Class 6.

Kinney, Edward C., Chicago, Ill. Loose-leaf binder. 533,827, Nov. 21; Serial No. 577,435. Class 37.

Kirshbaum, B., & Company, Chicago, Ill., to Kirshmoor, Inc., Los Angeles, Calif. Suits, coats, pants, vests, etc. 269,237, renewed Apr. 1, 1950. O. G. Nov. 21. Class 39.

Kirshmoor, Inc.: *See*—
Kirshbaum, B., & Company.

Kittinger Company, Inc., Buffalo, N. Y. Furniture. 533,549, Nov. 21; Serial No. 533,904, published Aug. 15, 1950. Class 32.

Kohrs Packing Company, Davenport, Iowa, by Oscar Mayer & Co., Inc., Chicago, Ill. Lard, sausage, and cottage butts. 272,435, July 8, 1930. Republished Nov. 21. Class 46.

Kohrs Packing Company, Davenport, Iowa, by Oscar Mayer & Co., Inc., Chicago, Ill. Sausage and cottage butts. 272,758, July 15, 1930. Republished Nov. 21. Class 46.

Kono Manufacturing Company, The, Woodside, N. Y. Eyeglass and spectacle frames and temple bars thereof. 533,725, Nov. 21; Serial No. 582,731, published June 27, 1950. Class 26.

Koppers Company, Inc., Pittsburgh, Pa. Resin adhesives. 533,726, Nov. 21; Serial No. 582,792, published Aug. 8, 1950. Class 5.

Koster, Curtis M., doing business as Turntop Company, San Francisco, Calif. Container closures. 533,817, Nov. 21; Serial No. 563,886. Class 50.

Lah Stencil: *See*—
Sorenson, Joseph D.

Labor Spring and Tire Corporation, Oakland, Calif. Automobile and truck tires and automobile and truck brake lining, etc. 533,819, Nov. 21; Serial No. 568,636. Class 35.

L'Air Liquid Société Anonyme Pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Industrial unitary apparatus. 533,601, Nov. 21; Serial No. 562,265, published Aug. 1, 1950. Class 23.

Lamac Process Company, Erie, Pa. Shoe soling cement. 533,745, Nov. 21; Serial No. 584,335, published Aug. 8, 1950. Class 5.

Landis Machine Company, Waynesboro, Pa. Screw-thread-cutting die heads. 276,140, Oct. 7, 1930. Republished Nov. 21. Class 23.

LaPlant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Tool bars. 533,643, Nov. 21; Serial No. 574,103, published Aug. 8, 1950. Class 23.

Lee, Frank H., Company, The Danbury, Conn. Men's soft and stiff felt hats, straw hats, wool hats, and caps. 274,050, renewed Aug. 19, 1950. O. G. Nov. 21. Class 39.

Lee, Frank H., Company, The, Danbury, Conn. Men's soft and stiff felt hats, straw hats, wool hats and caps. 276,387, renewed Oct. 21, 1950. O. G. Nov. 21. Class 39.

Lee, Frank H., Company, The, Danbury, Conn. Men's soft and stiff felt hats, straw hats, wool hats and caps, etc. 276,388, renewed Oct. 21, 1950. O. G. Nov. 21. Class 39.

Leggett & Platt, Inc.: *See*—
Leggett & Platt Spring Bed & Mfg. Co.

Leggett & Platt, Inc., Carthage, Mo. Bed-springs. 533,569, Nov. 21; Serial No. 543,818, published Aug. 22, 1950. Class 32.

Leggett & Platt Spring Bed & Mfg. Co., Carthage, Mo., by Leggett & Platt, Inc., Ennis, Tex., Carthage, Mo., and Louisville and Winchester, Ky. Spring-beds. 80,366, Dec. 13, 1910. Republished Nov. 21. Class 32.

Lehn & Fink Products Corporation, Bloomfield, N. J. Eau de cologne. 533,670, Nov. 21; Serial No. 578,148, published

Lelong, Lucien, Inc., Chicago, Ill. Perfumes. 533,684. Nov. 21; Serial No. 579,986, published July 25, 1950. Class 51.

Levelor Corporation, White Plains and New York, N. Y., assignee, by mesne assignment, of Levelor Corporation. Adjustable rest. 533,799, Nov. 21; Serial No. 501,746. Class 13.

Lewis, Claude A., Houston, Tex., to Amity Leather Products Co., West Bend, Wis. Pocket base-metal key holders. 279,629, renewed Jan. 20, 1951. O. G. Nov. 21. Class 13.

Lincoln Engineering Company, St. Louis, Mo. Air couplers and air blow guns. 533,540, Nov. 21; Serial No. 527,155, published June 6, 1950. Class 23.

Lion Specialty Co., Chicago, Ill. Candies; and peanut products. 533,543, Nov. 21; Serial No. 531,342, published June 6, 1950. Class 46.

Literary Guild of America, Inc., The: *See*—
Junior Literary Guild, Inc., The.

Loeser, Frederick, & Co. Inc., Brooklyn, N. Y. Women's leather and fabric shoes. 278,225, renewed Dec. 9, 1950. O. G. Nov. 21. Class 39.

Lone Star Steel Company, Dallas and Lone Star, Tex. Benzene, toluene, xylene and ammonium sulphate. 533,653, Nov. 21; Serial No. 575,536, published Aug. 15, 1950. Class 6.

Long, Dorothy A., doing business as Dawnwood Farms, Amenia, N. Y. Food concentrate. 533,686, Nov. 21; Serial No. 580,198, published July 11, 1950. Class 46.

Lowe, Joe, Corporation, New York, N. Y. Sticks or handles. 533,755, Nov. 21; Serial No. 584,682, published Aug. 22, 1950. Class 13.

Lux Clock Manufacturing Company, Inc., The, Waterbury, Conn. Clocks. 533,752, Nov. 21; Serial No. 584,539, published Aug. 22, 1950. Class 27.

Mallinckrodt Chemical Works, St. Louis, Mo. Agricultural fungicide. 533,675, Nov. 21; Serial No. 579,335, published Aug. 29, 1950. Class 6.

Manco Watch Strap Co., Inc., New York, N. Y. Leather and fabric wrist watch straps. 533,710, Nov. 21; Serial No. 582,178, published Aug. 29, 1950. Class 28.

Manley Inc., assignee: *See*—
Donaldson, James E.

Mann Company of Washington, The, Washington, D. C. Potato chips. 533,641, Nov. 21; Serial No. 573,884, published June 27, 1950. Class 46.

Mansfield Industries, Inc., Chicago, Ill. Telephoto lenses. 533,655, Nov. 21; Serial No. 575,713, published May 2, 1950. Class 26.

Manson Distributors: *See*—
Bode, Joe C., Jr.

Manteca Canning Company, Manteca, Calif. Canned tomatoes, canned tomato paste, canned fruit, etc. 279,724, renewed Jan. 20, 1951. O. G. Nov. 21. Class 46.

Mark Cross Company, New York, N. Y. Smoking pipes. 533,606, Nov. 21; Serial No. 563,268, published Aug. 15, 1950. Class 8.

Markwell Manufacturing Company, Inc., New York, N. Y. Stapling machines. 533,693, Nov. 21; Serial No. 580,668, published Aug. 1, 1950. Class 23.

Markwell Manufacturing Company, Inc., New York, N. Y. Stapling machines. 533,789, Nov. 21; Serial No. 588,307, published Aug. 1, 1950. Class 23.

Marley Company, Inc., The, Kansas City, Kans. Liquid cooling towers and parts thereof. 533,664, Nov. 21; Serial No. 577,332, published June 20, 1950. Class 31.

Marley Company, Inc., The, Kansas City, Kans. Liquid cooling towers and parts thereof. 533,665, Nov. 21; Serial No. 577,334, published June 20, 1950. Class 31.

Marmite Food Extract Co., Limited, The, London, England. Concentrated preparation being an extract of yeast. 79,220, Aug. 16, 1910. Republished Nov. 21. Class 46.

Marquette Petroleum Products, Inc., Chicago, Ill. Lubricant greases. 533,556, Nov. 21; Serial No. 537,212, published Jan. 31, 1950. Class 15.

Marré, Robert B., doing business as Tru-Bloom Seeds, Avila, Calif. Flower seeds. 533,820, Nov. 21; Serial No. 574,042. Class 1.

Marthinsen, Mads, Michigan City, Ind. Babbitt head hammers and handles for babbitt head hammers. 533,787, Nov. 21; Serial No. 587,200, published Aug. 1, 1950. Class 23.

Martin, J. E., Equipment Corporation, Buffalo, N. Y. Dry-cleaning machines. 533,757, Nov. 21; Serial No. 584,822, published Aug. 1, 1950. Class 24.

Maryland Biscuit Company, The, Baltimore, Md. Crackers. 444,333, Nov. 21; Serial No. 525,899, published July 11, 1950. Class 46.

Massillon Rubber Company, The, Massillon, Ohio. Rubber gloves. 279,035, renewed Jan. 6, 1951. O. G. Nov. 21. Class 44.

Mayer, Oscar, & Co., Inc.: *See*—
Kohrs Packing Company.

Mayfield, Henry, doing business as Modernistic Match Co., Orange, Tex. Pyrophoric lighters. 533,804, Nov. 21; Serial No. 521,102. Class 34.

McCabe Mfg. Co., Lawrence, Mass. Pneumatic flanging machinery. 533,590, Nov. 21; Serial No. 556,679, published June 27, 1950. Class 23.

McClure, Henry C: *See*—
Hammond, Mark O.

McCrory Stores Corporation, New York, N. Y. Doughnuts. 533,627, Nov. 21; Serial No. 568,745, published Sept. 27, 1949. Class 46.

McCulloch Motors Corporation, Los Angeles, Calif. Portable chain saws and centrifugal pumps. 533,793, Nov. 21; Serial No. 595,144, published Aug. 1, 1950. Class 23.

McEvoy, Peter P., doing business under the name and style of Glassboro Full Fashioned Hosiery Mill, Glassboro, N. J. Ladies' hosiery. 533,674, Nov. 21; Serial No. 578,988, published Aug. 15, 1950. Class 39.

McKesson & Robbins, Incorporated, Bridgeport, Conn., to McKesson & Robbins, Incorporated, New York, N. Y. Throat pastils. 264,347, renewed Nov. 26, 1949. O. G. Nov. 21. Class 18.

McLaren-Consolidated Cone Corporation, to National Biscuit Company, New York, N. Y. Ice-cream cones. 273,512, Aug. 5, 1930. New certificate. O. G. Nov. 21. Class 46.

McLaurin-Jones Co., Brookfield, Mass. Coated papers. 533,636, Nov. 21; Serial No. 571,652, published Aug. 8, 1950. Class 37.

McLeish, Wm., Appleton, to Appleton-Atlas Car Mover Corp., Milwaukee, Wis. Car movers and pushers. 77,477, re-renewed Apr. 12, 1950. O. G. Nov. 21. Class 23.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Chemotherapeutic preparation. 533,769, Nov. 21; Serial No. 585,758, published Aug. 22, 1950. Class 18.

Meier, Emma, Miami, Fla. Sleeping garment. 533,679, Nov. 21; Serial No. 579,507, published Aug. 15, 1950. Class 39.

Mergenthaler Linotype Company, Brooklyn, N. Y. Type casting machine parts. 533,682, Nov. 21; Serial No. 579,879, published Aug. 1, 1950. Class 23.

Meyers, A., & Sons Corp., New York, N. Y. Slide fasteners and staples. 533,625, Nov. 21; Serial No. 568,293, published Aug. 22, 1950. Class 13.

Millbrook Paper Co., Brooklyn, N. Y. Wrapping paper and tissue paper. 533,633, Nov. 21; Serial No. 571,450, published Aug. 15, 1950. Class 37.

Millprint, Inc., Milwaukee, Wis. Wrappers of paper, wax paper, rubber hydrochloride, regenerated cellulose, plastic and composition materials. 533,800, Nov. 21; Serial No. 518,246. Class 37.

Mineralized Products Co., Inc., Hillsboro, Ill. Composition for standardizing the acidity of foods. 533,738, Nov. 21; Serial No. 583,879, published July 11, 1950. Class 46.

Modernistic Match Co.: *See*—
Mayfield, Henry.

Mohbestos Brake Lining Company: *See*—
Hammond, Mark O.

Molz, Charles O., Detroit, Mich. Blank and partially printed forms. 533,544, Nov. 21; Serial No. 532,046, published Aug. 29, 1950. Class 37.

Montello Products Company, Ripon, Wis. Knitting machines. 533,624, Nov. 21; Serial No. 568,322, published July 18, 1950. Class 23.

Moon Brothers Limited, Birkenhead, England. Sheet metal working machinery. 533,573, Nov. 21; Serial No. 545,754, published Aug. 1, 1950. Class 23.

Moorex Industries, Inc., Richmond, Va. Portable kitchen cabinet structures. 533,702, Nov. 21; Serial No. 581,278, published Aug. 15, 1950. Class 32.

Morey Mercantile Company, The, Denver, Colo. Writing tablets. 533,767, Nov. 21; Serial No. 585,599, published Aug. 15, 1950. Class 37.

Morgan Construction Company, Worcester, Mass. Rolling mill machinery; wire mill machinery; ejector units; etc. 533,571, Nov. 21; Serial No. 544,670, published Aug. 8, 1950. Class 23.

Moshier, E. B., doing business as The Instant Products Manufacturing Company, to The Instant Products Manufacturing Company, Omaha, Nebr. Milk-chocolate powder and malted-milk chocolate powder. 279,769, renewed Jan. 21, 1951. O. G. Nov. 21. Class 46.

Moskin Stores, Inc., New York, N. Y. Radio receiving sets. 533,836, Nov. 21; Serial No. 588,701. Class 21.

Multistamp Company, Inc., The, Norfolk, Va. Stencil hand stamps; and stencil hand stamping outfits, and cases for containing such hand stamping outfits. 533,680, Nov. 21; Serial No. 579,612, published Aug. 8, 1950. Class 23.

Musafilms, Ltd., Dallas, Tex. Motion-picture film and photographic film. 533,733, Nov. 21; Serial No. 583,544, published July 18, 1950. Class 26.

N. V. R. Buisman's Gebrande Suikerpoederfabriek, Zwartsluis, Netherlands. Flavoring preparation. 533,829, Nov. 21; Serial No. 579,123. Class 46.

Nachman Corporation, Chicago, Ill. Spring assemblies. 533,592, Nov. 21; Serial No. 558,053, published Aug. 22, 1950. Class 32.

National Biscuit Company: *See*—
McLaren-Consolidated Cone Corporation.

National Fabrics Corporation to National Mallinson Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 377,426, May 7, 1940. New certificate. O. G. Nov. 21. Class 42.

National Fabrics Corporation to National Mallinson Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. 391,984, Dec. 2, 1941. New certificate. O. G. Nov. 21. Class 42.

National Fruit Canning Co., Seattle, Wash. Canned fruits and berries. 533,587, Nov. 21; Serial No. 552,999, published June 27, 1950. Class 46.

National Ideal Company, The: *See*—
Sears, Roebuck and Co.

National Licorice Company, Brooklyn, N. Y. Candy. 533,835, Nov. 21; Serial No. 587,126. Class 46.

National Mallinson Fabrics Corporation: *See*—
National Fabrics Corporation.

National Paper Corporation of Pennsylvania, Ransom, Pa. Toilet tissue. 533,689, Nov. 21; Serial No. 580,497, published Aug. 15, 1950. Class 37.

National Tool & Die Company, Inc., Louisville, Ky. Trestles. 533,808, Nov. 21; Serial No. 538,950. Class 50.

Natural Sugars, Inc., assignee: *See*—
Baker, Susan, Products, Inc.

Nethercutt, J. B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Deodorant and antiperspirant. 444,329, Nov. 21; Serial No. 522,891, published Jan. 3, 1950. Class 51.

Nethercutt Laboratories: *See*—
Nethercutt, J. B.

New Era Milling Company, The, Arkansas City, Kans. Wheat flour. 272,450, July 8, 1930. Republished Nov. 21. Class 46.

Norwich Pharmacal Company, The, Norwich, N. Y. Vaginal suppositories. 279,063, renewed Jan. 6, 1951. O. G. Nov. 21. Class 18.

Oakite Products, Inc.: *See*—
Oakley Chemical Co.

Oakley Chemical Co., to Oakite Products, Inc., New York, N. Y. Granulated chemical cleansing compound. 80,673, re-renewed Jan. 17, 1951. O. G. Nov. 21. Class 52.

Odin Corporation, Chicago, Ill. Cutting tools, hydraulic actuating units, machine tool assemblies. 444,321, Nov. 21; Serial No. 496,262, published July 25, 1950. Class 23.

Ogush, William B., Inc., New York, N. Y. Watches, watch cases and watch movements. 533,734, Nov. 21; Serial No. 583,612, published Aug. 22, 1950. Class 27.

P-C Sales Corporation, Wyncote, Pa. Ladies' hosiery. 533,605, Nov. 21; Serial No. 563,212, published Aug. 15, 1950. Class 39.

Palspearl Products, Inc., New York, N. Y., Eastport, Maine, and Hastings on Hudson, N. Y. Chemical preparation. 533,644, Nov. 21; Serial No. 574,109, published Aug. 15, 1950. Class 6.

Panation Trade Company, New York, N. Y. Cameras. 533,622, Nov. 21; Serial No. 567,878, published July 18, 1950. Class 26.

Paper Art Company, Inc., Indianapolis, Ind. Paper napkins, paper table cloths, etc. 533,538, Nov. 21; Serial No. 523,277, published Apr. 25, 1950. Class 37.

Paragon Utilities Corporation, Brooklyn, and New York, N. Y. Kitchen cabinets and kitchen tables. 533,612, Nov. 21; Serial No. 565,298, published Aug. 1, 1950. Class 32.

Parkola, Sam, doing business as Kiddie Kornice Co., Brooklyn, N. Y. Interior ornamental window tops. 444,322, Nov. 21; Serial No. 501,591, published Aug. 15, 1950. Class 32.

Parrott & Co., San Francisco, Calif. Canned fruits and canned fish. 533,530, Nov. 21; Serial No. 497,196, published July 11, 1950. Class 46.

Parsons Company, The, assignor to Parsons Corporation, Detroit, Mich. Kitchen cabinets. 533,594, Nov. 21; Serial No. 558,161, published Aug. 22, 1950. Class 32.

Parsons Corporation, assignee: *See*—
Parsons Company, The.

Pashon Products Limited, Slough, Buckinghamshire, England. Passion fruit juice. 533,591, Nov. 21; Serial No. 557,463, published June 27, 1950. Class 46.

Patch, E. L., Company, The, Stoneham, Mass. Cold, beauty, cleansing, refreshing, finishing, massage, and bleaching creams. 279,016, renewed Jan. 6, 1951. O. G. Nov. 21. Class 51.

Patterson, C. J., Company, Kansas City, Mo. Baker's material. 533,595, Nov. 21; Serial No. 559,174, published July 4, 1950. Class 46.

Patterson, Raleigh E., doing business as B & M Mattress Company, Houston, Tex. Mattresses. 533,561, Nov. 21; Serial No. 538,808, published Aug. 15, 1950. Class 32.

Pediatric Products Co.: *See*—
Elgin, Clarence E.

Peerless Manufacturing Corporation, Inc., Louisville, Ky. Fireplace screens. 533,541, Nov. 21; Serial No. 530,250, published Aug. 22, 1950. Class 13.

Penn Hosiery Mills, Inc., Reading, Pa. Hosiery. 424,851, Oct. 29, 1946. Republished Nov. 21. Class 39.

Penn Hosiery Mills, Inc., Reading, Pa. Hosiery. 429,878, May 20, 1947. Republished Nov. 21. Class 39.

Pennzoil Company, The, Oil City, Pa. Transmission oil. 533,753, Nov. 21; Serial No. 584,545, published July 25, 1950. Class 15.

Per-Em Wax Co., Ipswich, S. Dak. Polishing wax. 533,676, Nov. 21; Serial No. 579,352, published Aug. 15, 1950. Class 4.

Peter's Products: *See*—
Russo, Salvatore.

Phoenix Hosiery Company, Milwaukee, Wis. Hosiery and underwear, etc. 278,870, renewed Dec. 30, 1950. O. G. Nov. 21. Class 39.

Platt & Smillie Chemicals, Inc., St. Louis, Mo. Antiseptic liquid detergent. 533,736, Nov. 21; Serial No. 583,815, published Aug. 8, 1950. Class 52.

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Herbicidal compositions and stabilizers therefor. 533,656, Nov. 21; Serial No. 575,785, published Aug. 15, 1950. Class 6.

Pittsburgh Plate Glass Company: *See*—
Duplate Corporation.

Pix Aktiebolag, Gavle, Sweden. Licorice pastilles. 533,608, Nov. 21; Serial No. 564,402, published June 6, 1950. Class 46.

Plaze, Inc., St. Louis, Mo. Combined cleaning and polishing compound. 533,645, Nov. 21; Serial No. 574,377, published Aug. 15, 1950. Class 4.

Polis & Hagan, Edinburg, Tex. Fresh citrus fruit. 533,537, Nov. 21; Serial No. 521,925, published July 11, 1950. Class 46.

Pollock Paper Corporation, Dallas, Tex. Waxed wrapping paper. 533,703, Nov. 21; Serial No. 581,355, published Aug. 8, 1950. Class 37.

Powell, John T., Washington, D. C. Portable self-contained automatic electric lighting units. 533,834, Nov. 21; Serial No. 586,308. Class 21.

Power, William, doing business as Absorb-All Mfg. Co., Frazeysburg, Ohio. Oil absorbent compound. 444,335, Nov. 21; Serial No. 495,690. Class 6.

Prints Biederman Company, The, Cleveland, Ohio. Interlining. 79,694, re-renewed Sept. 27, 1950. O. G. Nov. 21. Class 42.

Pritchard, J. F., & Co., Kansas City, Mo. Portable extractor units. 533,562, Nov. 21; Serial No. 540,709, published Aug. 1, 1950. Class 23.

Pure Oil Company, The, Chicago, Ill. Lubricating oil. 533,539, Nov. 21; Serial No. 526,832, published Jan. 31, 1950. Class 15.

Quaker Oats Company, The, Chicago, Ill. Feeds for turkeys. 274,364, renewed Aug. 26, 1950. O. G. Nov. 21. Class 46.

R-H Products Company: *See*—
Derby, Robert W.

Radiant Wash Solution Co.: *See*—
Cali, Minnie T.

Radioactive Products, Inc., Detroit, Mich. Instruments for measuring radioactivity. 533,700, Nov. 21; Serial No. 581,145, published June 20, 1950. Class 26.

Rapids-Standard Company, Inc., The, Grand Rapids, Mich. Portable, adjustable, power belt or gravity conveyors. 533,532, Nov. 21; Serial No. 502,711, published July 25, 1950. Class 23.

Rapinwax Paper Company, Minneapolis, Minn. Bread wrappers. 444,325, Nov. 21; Serial No. 512,748, published Aug. 29, 1950. Class 37.

Reese Chemical Company, The, Cleveland, Ohio. Prophylactic rubber articles. 533,811, Nov. 21; Serial No. 549,965. Class 44.

Reliance Contracting Company, Pittsburgh, Pa. Liquid compounds employed for lubricating. 533,743, Nov. 21; Serial No. 584,154, published July 25, 1950. Class 15.

Restonic Corporation, Chicago, Ill. Sofa beds. 533,709, Nov. 21; Serial No. 581,892, published Aug. 15, 1950. Class 32.

Rexall Drug Company: *See*—
United Drug Company.

Rhinelander Paper Company, Rhinelander, Wis. Supercalendered sulphite paper. 533,554, Nov. 21; Serial No. 536,712, published July 25, 1950. Class 37.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined temperature regulators and automatic gas cut-offs. 533,694, Nov. 21; Serial No. 580,748, published June 13, 1950. Class 26.

Roddenbery, W. B., Co., Inc.: *See*—
Roddenbery, Walter B.

Roddenbery, Walter B., to W. B. Roddenbery Co., Inc., Cairo, Ga. Molasses. 279,141, renewed Jan. 6, 1951. O. G. Nov. 21. Class 46.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 279,130, renewed Jan. 6, 1951. O. G. Nov. 21. Class 39.

Roth, Chester H., Co., Inc., New York, N. Y. Men's, women's, and children's hosiery and men's, women's, and children's underwear. 279,442, renewed Jan. 13, 1951. O. G. Nov. 21. Class 39.

Rubber and Asbestos Corp., Bloomfield, N. J. Adhesive cement. 533,705, Nov. 21; Serial No. 581,566, published Aug. 8, 1950. Class 5.

Rubin, Irving, doing business under the name and style Boston Metal Products Co., Boston, Mass. Brackets, scale hangers, etc. 533,566, Nov. 21; Serial No. 542,356, published July 11, 1950. Class 13; Wheeled carriers, etc. Serial No. 577,285. Class 19; Portable bakery cabinets. Serial No. 577,284, published July 18, 1950. Class 32. (Consolidated certificate, Classes 13, 19, and 32.)

Russo, Salvatore, doing business as Peter's Products, Somerville, Mass., assignor to Eversharp, Inc., Chicago, Ill. Strops and hones. 533,649, Nov. 21; Serial No. 574,864, published Aug. 15, 1950. Class 4.

S. F. Appliances, Limited, Ridgefield, N. J. Gasoline, kerosene, gas and charcoal smoothing irons. 533,610, Nov. 21; Serial No. 564,969, published Aug. 8, 1950. Class 24.

Saco-Lowell Shops, Boston, Mass. Textile machinery and parts thereof. 533,568, Nov. 21; Serial No. 542,663, published July 18, 1950. Class 23.

Safety Tool Corporation, Watertown, N. Y. File handles and tool handles. 533,657, Nov. 21; Serial No. 575,931, published June 27, 1950. Class 23.

St. Louis Vinegar & Cider Co., St. Louis, Mo. Vinegar and pickles. 533,560, Nov. 21; Serial No. 538,452, published June 6, 1950. Class 46.

Sandsteel Spring Co., Inc., New York, N. Y. Springs for watches, clocks. 533,681, Nov. 21; Serial No. 579,714, published Aug. 22, 1950. Class 27.

Sandy Hill Iron & Brass Works, The, Hudson Falls, N. Y. Power driven screening machine. 444,331, Nov. 21; Serial No. 524,159, published June 6, 1950. Class 23.

Satinol, Inc.: *See*—
Campbell, Phoebe.

Schering Corporation, Bloomfield, N. J. Pharmaceutical preparation. 533,777, Nov. 21; Serial No. 586,112, published Aug. 22, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Pharmaceutical preparation. 533,778, Nov. 21; Serial No. 586,114, published Aug. 22, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Drug. 533,779, Nov. 21; Serial No. 586,115, published Aug. 22, 1950. Class 18.

Schering Corporation, Bloomfield, N. J. Pharmaceutical preparation. 533,780, Nov. 21; Serial No. 586,116, published Aug. 22, 1950. Class 18.

Schneider, John D., doing business as Franklin C. Hollister Co., Chicago, Ill. Partially printed birth certificate forms. 533,813, Nov. 21; Serial No. 556,291. Class 37.

Schnier, I. F., Company, Inc., San Francisco, Calif. Wire hoods used on bottles. 533,637, Nov. 21; Serial No. 571,999, published Aug. 22, 1950. Class 13.

Scull, William S., Company, Camden, N. J. Coffees, teas, and spices. 78,648, June 28, 1910. Republished Nov. 21. Class 46.

Sears, Roebuck and Co., Chicago, Ill., by The National Ideal Company, Toledo, Ohio. Charcoal incubators. 273,585, Aug. 5, 1930. Republished Nov. 21. Class 50.

Sears, Roebuck and Co., Chicago, Ill. Lubricating oils and windmill and pump jack oil. 533,582, Nov. 21; Serial No. 550,080, published Aug. 22, 1950. Class 15.

Seattle Glove Company, Seattle, Wash. Canvas, cotton, and leather-palm work gloves. 277,668, renewed Nov. 25, 1950. O. G. Nov. 21. Class 39.

Sebastopol Fruit Growers Association, Sebastopol, Calif. Fresh deciduous fruits. 533,577, Nov. 21; Serial No. 548,106, published July 18, 1950. Class 46.

Selas Corporation of America, Philadelphia, Pa. Gas mixing apparatus, etc. 444,320, Nov. 21; Serial No. 495,511. Class 23.

Selig Company, Inc., The, Atlanta, Ga. Synthetic floor, wall and woodwork cleaner. 533,741, Nov. 21; Serial No. 583,954, published Aug. 8, 1950. Class 52.

Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Adaptors for bibb seat forming tools, air valve keys, basin wrenches, etc. 533,533, Nov. 21; Serial No. 505,254, published June 6, 1950. Class 23.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Medicinal preparation. 533,746, Nov. 21; Serial No. 584,353, published Aug. 22, 1950. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antiallergenic expectorant preparation. 533,747, Nov. 21; Serial No. 534,357, published Aug. 22, 1950. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Medicinal preparation. 533,748, Nov. 21; Serial No. 584,358, published Aug. 22, 1950. Class 18.

Shreveport Engineering Company: *See*—
Barnes, Taylor.

Silver Craft Furniture Company, High Point, N. C. Upholstered living room chairs. 533,697, Nov. 21; Serial No. 581,033, published Aug. 1, 1950. Class 32.

Silver Spring Beverages Incorporated: *See*—
Bowles, William A.

Simmon Brothers, Inc., Long Island City, N. Y. Photographic enlarging apparatus, photographic cameras, light intensity measuring apparatus and time switches. 533,711, Nov. 21; Serial No. 582,192, published June 27, 1950. Class 26.

Simmons Company, New York, N. Y. Mattresses, box springs, coil springs, etc. 533,564, Nov. 21; Serial No. 540,925, published Aug. 15, 1950. Class 32.

Sittler Manufacturing Corp., Chicago, Ill. Smoothing and sharpening abrasive elements. 444,327, Nov. 21; Serial No. 517,384, published Aug. 15, 1950. Class 4.

Smith, Kline & French Laboratories, Philadelphia, Pa. Antibiotic preparation. 533,786, Nov. 21; Serial No. 586,884, published Aug. 29, 1950. Class 18.

Smithfield Company, Incorporated, The, to The Smithfield Ham and Products Company, Inc., Smithfield, Va. Hams. 261,524, renewed Sept. 17, 1949. O. G. Nov. 21. Class 46.

Smithfield Ham and Products Company, Inc., The: *See*—
Smithfield Company, Incorporated, The.

Snelgrove Ice Cream Company, Salt Lake City, Utah. Frozen ice cream confections. 533,729, Nov. 21; Serial No. 583,175, published July 11, 1950. Class 46.

Societe Anonyme Maison Amieux Freres, Nantes-Chantenay, France. Canned foods. 533,589, Nov. 21; Serial No. 556,031, published June 27, 1950. Class 46.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Emulsifiable compounded petroleum oil. 533,749, Nov. 21; Serial No. 584,360, published Aug. 29, 1950. Class 6.

Solomon, Samuel, Inc., Boston, Mass. Women's and misses' nightgowns, pajamas, slips, etc. 533,683, Nov. 21; Serial No. 579,896, published Aug. 15, 1950. Class 39.

Sorenson, Joseph D., doing business as Lah Stencil, Kiester, Minn. Hand stencil kit. 533,623, Nov. 21; Serial No. 568,218, published Aug. 15, 1950. Class 37.

South Kaukauna Dairy Company, Kaukauna, Wis. Cheese food. 533,671, Nov. 21; Serial No. 578,294, published June 13, 1950. Class 46.

Southdown Sugars, Inc., New Orleans, La. Pure cane sugar. 533,618, Nov. 21; Serial No. 566,896, published June 6, 1950. Class 46.

Southern States Cooperative, Incorporated, Richmond, Va. Dog food. 533,652, Nov. 21; Serial No. 575,500, published July 4, 1950. Class 46.

Southwest Tablet Mfg. Co., Dallas, Tex. School tablets, writing tablets, pocket notebooks, etc. 533,716, Nov. 21; Serial No. 582,392, published Aug. 15, 1950. Class 37.

Spangberg, Mills E., doing business as Hydraw Company, assignor to Hydraw Company, Freeport, Ill. Hydraulic deep and shallow well pumps and parts therefor. 444,323, Nov. 21; Serial No. 506,394, published June 13, 1950. Class 23.

Spaulding-Moss Company, Boston, Mass. Drawing paper, drawing cloth, tracing paper, etc. 533,768, Nov. 21; Serial No. 585,687, published Aug. 29, 1950. Class 37.

Speidel Corporation, Providence, R. I. Bracelets, pendants, brooches, etc. 533,735, Nov. 21; Serial No. 583,712, published Aug. 22, 1950. Class 28.

Springfield Tool & Die Co., Inc., Springfield, N. J. Metal moulds. 533,609, Nov. 21; Serial No. 564,746, published June 27, 1950. Class 23.

Standard Brands Incorporated, Dover, Del., Cincinnati, Ohio, and New York, N. Y., to Standard Brands Incorporated, New York, N. Y. Baking powder. 280,290, renewed Feb. 10, 1951. O. G. Nov. 21. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Services rendered at applicant's automotive service stations. 533,798, Nov. 21; Serial No. 549,186, published July 25, 1950. Class 103.

Sta-Tray Company, Paterson, N. J. Combination tray and shelves. 533,597, Nov. 21; Serial No. 560,502, published Aug. 15, 1950. Class 32.

Stevens, Chas. A., & Co., Chicago, Ill. Hosiery. 533,580, Nov. 21; Serial No. 549,189, published Aug. 15, 1950. Class 39.

Stoeger, A. F., Inc., to Stoeger Arms Corporation, New York, N. Y. Shotguns, pistols, revolvers, etc. 269,834, renewed Apr. 22, 1950. O. G. Nov. 21. Class 9.

Stoeger Arms Corporation: *See*—
Stoeger, A. F., Inc.

Stowe-Woodward, Inc., Newton Upper Falls, Mass. Machine rolls. 533,792, Nov. 21; Serial No. 594,865, published Aug. 1, 1950. Class 23.

Stuart, D. A., Oil Co., Limited, Chicago, Ill. Lubricant. 533,782, Nov. 21; Serial No. 586,222, published Aug. 15, 1950. Class 15.

Sugar Beet Products Company, Inc., Saginaw, Mich. Waterless hand-cleanser. 533,721, Nov. 21; Serial No. 582,659, published Aug. 22, 1950. Class 52.

Sun Oil Company, Philadelphia, Pa. Lubricating oil. 533,762–4, Nov. 21; Serial Nos. 585,254–6, published July 25, 1950. Class 15.

Superior Separator Company, Hopkins, Minn. Grain cleaning and separating machinery. 533,660, Nov. 21; Serial No. 576,608, published Aug. 1, 1950. Class 23.

Swan-Finch Oil Corporation: *See*—
Cataract Refining and Manufacturing Company.

Swan-Finch Oil Corporation, New York, N. Y. Lubricating oils and greases. 533,774, Nov. 21; Serial No. 586,023, published Aug. 22, 1950. Class 15.

Tan-Kar Oil Company, Montgomery, Ala. Gasoline and lubricating oil. 533,771, Nov. 21; Serial No. 585,871, published Aug. 15, 1950. Class 15.

Taylor Provision Co., The, Trenton, N. J. Pork products. 533,600, Nov. 21; Serial No. 561,536, published June 27, 1950. Class 46.

Teg Corporation of Dallas Texas, Dallas, Tex. Nasal inhalers. 533,758, Nov. 21; Serial No. 584,844, published Aug. 22, 1950. Class 18.

Tested Papers of America, Inc., Chicago, Ill. Paper napkins. 533,615, Nov. 21; Serial No. 565,462, published Aug. 22, 1950. Class 37.

Tex-O-Kan Flour Mills Co., Dallas, Tex. Wheat flour. 533,797, Nov. 21; Serial No. 599,921, published Sept. 5, 1950. Class 46.

Thomas, Irvin C., Burbank, Calif. Bone saw. 533,614, Nov. 21; Serial No. 565,387, published June 6, 1950. Class 23.

Thompson Grinder Company, The, Springfield, Ohio. Grinding machines. 533,531, Nov. 21; Serial No. 500,496, published June 27, 1950. Class 23.

Thomson Paper Mills, Inc., Thomson, N. Y. Facial tissues. 533,706, Nov. 21; Serial No. 581,627, published Aug. 15, 1950. Class 37.

Tilbury Refining Corporation, Brooklyn, N. Y. Beeswax, carnauba, candelilla, etc. 533,635, Nov. 21; Serial No. 571,585, published Aug. 15, 1950. Class 6.

Traveltips, Inc., Beverly Hills, Calif. Continuous motion picture projecting and exhibiting machine. 533,690, Nov. 21; Serial No. 580,533, published June 13, 1950. Class 26.

Tru-Bloom Seeds: *See*—
Marré, Robert B.

Truscon Steel Company: *See*—
International Metal Lath Company.

Turntop Company: *See*—
Koster, Curtis M.

U. N. World, Inc., Wilmington, Del., and New York, N. Y. Printed books, periodicals, and pamphlets. 533,621, Nov. 21; Serial No. 567,441, published July 18, 1950. Class 38.

Union Oil Company of California, Los Angeles, Calif. Lubricating oils and greases, crystal oil, etc. 533,585, Nov. 21; Serial No. 552,616, published Aug. 1, 1950. Class 15.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Shaving cream. 275,296, renewed Sept. 23, 1950. O. G. Nov. 21. Class 51.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Dental paste. 275,787, renewed Sept. 30, 1950. O. G. Nov. 21. Class 51.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Medicinal preparation. 275,810, renewed Sept. 30, 1950. O. G. Nov. 21. Class 18.

United Electric Coal Companies, The, Chicago, Ill. Coal. 272,581, July 8, 1930. Republished Nov. 21. Class 1.

U. S. Oil Company, East Providence, R. I. Synthetic textile resins. 533,785, Nov. 21; Serial No. 586,824, published Aug. 29, 1950. Class 6.

Universal Cocoa Products Corporation, by Universal Foods Corporation, Chicago, Ill. Food products. 353,805, Jan. 18, 1938. Republished Nov. 21. Class 46.

Universal Foods Corporation: *See*—
Universal Cocoa Products Corporation.

Van Dusen Harrington Co., Minneapolis, Minn. Wheat flour. 533,552, Nov. 21; Serial No. 536,183, published July 18, 1950. Class 46.

Victor Manufacturing & Gasket Co., Chicago, Ill. Protective cardboard folders. 533,586, Nov. 21; Serial No. 552,903, published Aug. 22, 1950. Class 37.

Victory Optical Manufacturing Company, Newark, N. J. Spectacle frames. 533,707, Nov. 21; Serial No. 581,746, published June 27, 1950. Class 26.

Vision Products Co., Inc., Newark, N. J. Sun glasses. 533,754, Nov. 21; Serial No. 584,560, published July 18, 1950. Class 26.

Visualizer Corporation, The, Beverly Hills, Calif. Visual educational projectors. 533,718, Nov. 21; Serial No. 582,510, published June 27, 1950. Class 26.

Voorhis-Tiebout Company, Inc., Red Hook, N. Y. Soap dispensers and pulverizers. 533,632, Nov. 21; Serial No. 569,653, published Aug. 22, 1950. Class 13.

Walsh, Christy, New York, N. Y., to Christy Walsh, Hollywood, Calif. Heading for a series of articles. 273,402, renewed Aug. 5, 1950. O. G. Nov. 21. Class 38.

Walsh, Christy, New York, N. Y., to Christy Walsh, Hollywood, Calif. Heading for a series of articles. 274,165, renewed Aug. 19, 1950. O. G. Nov. 21. Class 38.

Wassell Organization, Inc., Westport, Conn. Filing cabinets. 533,593, Nov. 21; Serial No. 558,086, published Aug. 15, 1950. Class 32.

Weinreich Brothers Company, New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. 533,602, Nov. 21; Serial No. 562,513, published Aug. 29, 1950. Class 28.

Weisman, Max., doing business as Best Made Bedding Co., New York, N. Y. Mattresses. 533,603, Nov. 21; Serial No. 562,679, published Aug. 1, 1950. Class 32.

Wendell Manufacturing Company, Chicago, Ill. Painters' striping tools. 533,663, Nov. 21; Serial No. 577,296, published Aug. 1, 1950. Class 23.

Western Clock Company, Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 276,597, Oct. 21, 1930. Republished Nov. 21. Class 27.

Western Clock Mfg. Co., The, Peru, Ill., by General Time Corporation, New York, N. Y. Clocks. 79,089, Aug. 2, 1910. Republished Nov. 21. Class 27.

Western Clock Mfg. Co., The, Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 79,874–5, Oct. 11, 1910. Republished Nov. 21. Class 27.

Western Leather Company, Milwaukee, Wis. Shoe leather welting. 533,837, Nov. 21; Serial No. 591,821. Class 39.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 444,334, Nov. 21; Serial No. 526,159, published Aug. 22, 1950. Class 37.

Wheeling Corrugating Company, Wheeling, W. Va. Expanded metal fabric. 533,553, Nov. 21; Serial No. 536,195, published July 25, 1950. Class 12.

Whiting-Adams Company, Inc., Boston, Mass. Brushes. 533,536, Nov. 21; Serial No. 509,900, published Aug. 15, 1950. Class 29.

Wilk Shirt Corporation, New York, N. Y. Men's outer shirts. 533,550, Nov. 21; Serial No. 533,957, published June 20, 1950. Class 39.

Wilton Tool Company, Chicago, Ill. Bench vises and adjustable work-holding devices. 533,620, Nov. 21; Serial No. 567,298, published Aug. 1, 1950. Class 23.

Winley Pharmacal Corporation, Memphis, Tenn. Vaginal jelly and protein hydrolysates. 533,742, Nov. 21; Serial No. 584,033, published Aug. 22, 1950. Class 18.

Wisconsin Alumni Research Foundation, Madison, Wis. Anticoagulants. 398,198, Oct. 13, 1942. Republished Nov. 21. Class 18.

Wisconsin Motor Corporation, Milwaukee, Wis. Internal combustion engines; complete industrial power units; replacement and spare parts for such engines and power units. 533,698, Nov. 21; Serial No. 581,049, published Aug. 8, 1950. Class 23.

Wroe, W. E., & Company, to Bradner Smith & Company, Chicago, Ill. Writing-paper. 79,314, re-renewed Aug. 23, 1950. O. G. Nov. 21. Class 37.

Wroe, W. E., & Company, to Bradner Smith & Company, Chicago, Ill. Writing-paper. 79,877, re-renewed Oct. 11, 1950. O. G. Nov. 21. Class 37.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Floor absorbent and skid-proofing compound. 533,639, Nov. 21; Serial No. 573,283, published Aug. 15, 1950. Class 6.

Yankee Pencil Company, Inc., The, Chicago, Ill. Pencils. 533,578, Nov. 21; Serial No. 548,208, published Apr. 12, 1949. Class 37.

Yorkville Paper Co., Inc., New York, N. Y. Wrapping or packaging materials. 533,708, Nov. 21; Serial No. 581,750, published Aug. 8, 1950. Class 37.

Young, M. M., & Company, Inc., Chicago, Ill. Venetian blind slats. 533,567, Nov. 21; Serial No. 542,425, published Aug. 8, 1950. Class 32.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. The United Electric Coal Companies. 272,581, July 8, 1930. Republished Nov. 21.

Leather, and particularly sole leather. Acton Tanning Company Limited. 266,792, renewed Feb. 4, 1950. O. G. Nov. 21.

Leather, Calf. American Hide and Leather Company. 277,787, Nov. 25, 1930. Republished Nov. 21.

Seeds, Flower. R. B. Marré. 533,820, Nov. 21; Serial No. 574,042.

Soil, humus and mushroom spawn. Horlacher Mushroom Farms. 533,634, Nov. 21; Serial No. 571,547, published Apr. 25, 1950.

CLASS 4

Abrasive sheet material, Flexible. Abrasive Products, Inc. 533,557, Nov. 21; Serial No. 537,272, published Aug. 15, 1950.

Cleaner and polish, Window. J. C. Bode, Jr. 533,576, Nov. 21; Serial No. 547,100; published Aug. 15, 1950.

Cleaning and polishing compound, Combined. Plaze, Inc. 533,645, Nov. 21; Serial No. 574,377, published Aug. 15, 1950.

Cleaning preparation. R. F. Gauger. 444,326, Nov. 21; Serial No. 514,268, published Aug. 15, 1950.

Grinding wheel, Diamond-coated. Kerr Manufacturing Company. 533,616, Nov. 21; Serial No. 566,524, published Aug. 15, 1950.

Smoothing and sharpening abrasive elements. Sittler Manufacturing Corp. 444,327, Nov. 21; Serial No. 517,384, published Aug. 15, 1950.

Steel wool pads, Impregnated. Club Aluminum Products Company. 533,651, Nov. 21; Serial No. 575,194, published Aug. 15, 1950.

Strops and hones. S. Russo. 533,649, Nov. 21; Serial No. 574,864, published Aug. 15, 1950.

Wax, Liquid floor. The Du Bois Company. 533,737, Nov. 21; Serial No. 583,865, published Aug. 8, 1950.

Wax, Polishing. Per-Em Wax Co. 533,676, Nov. 21; Serial No. 579,352, published Aug. 15, 1950.

CLASS 5

Adhesives, Resin. Koppers Company, Inc. 533,726, Nov. 21; Serial No. 582,792, published Aug. 8, 1950.

Cement, Adhesive. Rubber and Asbestos Corp. 533,705, Nov. 21; Serial No. 581,566, published Aug. 8, 1950.

Cement, Shoe soling. Lamac Process Company. 533,745, Nov. 21; Serial No. 584,335, published Aug. 8, 1950.

Cement, Solvent type. R. W. Derby. 533,776, Nov. 21; Serial No. 586,081, published July 25, 1950.

Tape, Gummed. The Gummed Products Company. 533,756, Nov. 21; Serial No. 584,765, published Aug. 8, 1950.

CLASS 6

Beeswax, carnauba, candelilla, etc. Tilbury Refining Corporation. 533,635, Nov. 21; Serial No. 571,585, published Aug. 15, 1950.

Benzene, toluene, xylene and ammonium sulphate. Lone Star Steel Company. 533,653, Nov. 21; Serial No. 575,536, published Aug. 15, 1950.

Chemical preparation. Baispearl Products, Inc. 533,644, Nov. 21; Serial No. 574,109, published Aug. 15, 1950.
Chemicals. E. T. Erickson. 533,629, Nov. 21; Serial No. 568,841, published Aug. 29, 1950.
Emulsifiable compounded petroleum oil. Socony-Vacuum Oil Company, Incorporated. 533,749, Nov. 21; Serial No. 584,360, published Aug. 29, 1950.
Floor absorbent and skid-proofing compound. Wyandotte Chemicals Corporation. 533,639, Nov. 21; Serial No. 573,283, published Aug. 15, 1950.
Fungicide, Agricultural. Mallinckrodt Chemical Works. 533,675, Nov. 21; Serial No. 579,335, published Aug. 29, 1950.
Herbicidal compositions and stabilizers therefor. Pittsburgh Coke & Chemical Company. 533,656, Nov. 21; Serial No. 575,785, published Aug. 15, 1950.
Insecticide and household deodorant. M. T. Call. 533,731, Nov. 21; Serial No. 583,241, published Aug. 29, 1950.
Insecticides, rodenticides, fumigants, etc. American Cyanamid Company. 533,662, Nov. 21; Serial No. 577,027, published Aug. 15, 1950.
Lye. The Buckeye Soda Company. 533,647, Nov. 21; Serial No. 574,686, published Aug. 15, 1950.
Oil absorbent compound. W. Power. 444,335, Nov. 21; Serial No. 495,690.
Resins, Synthetic textile. U. S. Oil Company. 533,785, Nov. 21; Serial No. 586,824, published Aug. 29, 1950.
Tanning compound. L. G. Kingsley. 533,830, Nov. 21; Serial No. 579,503.

CLASS 8

Humidors, cigar and cigarette cases, etc. Fleming-Hall Tobacco Co., Inc. 533,713, Nov. 21; Serial No. 582,220, published Aug. 15, 1950.
Inserts designed to be used in the bowls of smoking pipes. L. F. Balsamo. 533,598, Nov. 21; Serial No. 560,857, published Aug. 15, 1950.
Pipes, Smoking. Mark Cross Company. 533,606, Nov. 21; Serial No. 563,268, published Aug. 15, 1950.
Pouches, Tobacco. International Latex Corporation. 533,638, Nov. 21; Serial No. 572,570, published Aug. 22, 1950.
Sleeves or mouthpieces for articles of smoking tobacco, Removable lip-protecting. W. H. Botley. 533,784, Nov. 21; Serial No. 586,464, published Aug. 22, 1950.
Smokers' articles. Fran-Stef Mfg. Co. 533,642, Nov. 21; Serial No. 574,028, published Aug. 29, 1950.

CLASS 9

Shotguns, pistols, revolvers, etc. A. F. Stoeger, Inc. 269,834, renewed Apr. 22, 1950. O. G. Nov. 21.

CLASS 12

Building, Unbraced metal portable. N. Frye. 533,832, Nov. 21; Serial No. 582,905.
Gratings for floors, stair treads, and wall partitions. Kerrigan Iron Works, Inc. 533,824, Nov. 21; Serial No. 575,650.
Metal fabric, Expanded. Wheeling Corrugating Company. 533,553, Nov. 21; Serial No. 536,195, published July 25, 1950.
Sheet-metal structures, Expanded, etc. International Metal Lath Company. 35,203, re-renewed Oct. 2, 1950. O. G. Nov. 21.
Windows and screens, Combination. American Heating & Appliance Company. 538,815, Nov. 21; Serial No. 559,489.

CLASS 13

Brackets, scale hangers, etc. I. Rubin. 533,566, Nov. 21; Serial No. 542,356, published July 11, 1950. (Consolidated certificate, Classes 13, 19, and 32.)
Dispensers, Soap, and pulverizers. Voorhis-Tiebout Company, Inc. 533,632, Nov. 21; Serial No. 569,653, published Aug. 22, 1950.
Fasteners, Slide, and staples. A. Meyers & Sons. 533,625, Nov. 21; Serial No. 568,393, published Aug. 22, 1950.
Key holders, Pocket base-metal. C. A. Lewis. 279,629, renewed Jan. 20, 1951. O. G. Nov. 21.
Manhole-fittings. William Heiser and Sons Company. 77,770, May 3, 1910. Republished Nov. 21.
Nails, Furniture, and furniture glides. Atlas Tack Corporation. 533,691, Nov. 21; Serial No. 580,640, published Aug. 15, 1950.
Plumbing fixtures. W. A. Case and Son Manufacturing Company. 533,765, Nov. 21; Serial No. 585,425, published Aug. 15, 1950.
Rest, Adjustable. Levelor Corporation. 533,799, Nov. 21; Serial No. 501,746.
Screens, Fireplace. Peerless Manufacturing Corporation, Inc. 533,541, Nov. 21; Serial No. 530,250, published Aug. 22, 1950.
Sticks or handles. Joe Lowe Corporation. 533,755, Nov. 21; Serial No. 584,682, published Aug. 22, 1950.
Tools, Forged. P. E. Keeney. 533,579, Nov. 21; Serial No. 548,744, published Aug. 22, 1950.
Utensils, Cast aluminum. Club Aluminum Products Company. 533,559, Nov. 21; Serial No. 537,987, published Aug. 22, 1950.
Wire hoods used on bottles. I. F. Schnier Company, Inc. 533,637, Nov. 21; Serial No. 571,999, published Aug. 22, 1950.

CLASS 15

Compounds, Liquid, employed for lubricating. Reliance Contracting Company. 533,743, Nov. 21; Serial No. 584,154, published July 25, 1950.
Gasoline and lubricating oil. Tan-Kar Oil Company. 533,771, Nov. 21; Serial No. 585,871, published Aug. 15, 1950.
Grease and yarn-grease, Lubricating. Cataract Refining and Manufacturing Company. 80,268, re-renewed Nov. 29, 1950. O. G. Nov. 21.
Greases, Lubricant. Marquette Petroleum Products, Inc. 533,556, Nov. 21; Serial No. 537,212, published Jan. 31, 1950.
Lubricant. American Grease Stick Company. 533,714, Nov. 21; Serial No. 582,263, published Aug. 15, 1950.
Lubricant. D. A. Stuart Oil Co. 533,782, Nov. 21; Serial No. 586,222, published Aug. 15, 1950.
Oil, Lubricating. The Pure Oil Company. 533,539, Nov. 21; Serial No. 526,832, published Jan. 31, 1950.
Oil, Lubricating. Sun Oil Company. 533,762–4, Nov. 21; Serial Nos. 585,254–6, published July 25, 1950.
Oil, Transmission. The Pennzoil Company. 533,753, Nov. 21; Serial No. 584,545, published July 25, 1950.
Oils and greases, Lubricating and insulating. General Electric Company. 533,699, Nov. 21; Serial No. 581,054, published Aug. 8, 1950.
Oils, Lubricating, and greases. Swan-Finch Oil Corporation. 533,774, Nov. 21; Serial No. 586,023, published Aug. 22, 1950.
Oils, Lubricating, and greases, crystal oil, etc. Union Oil Company of California. 533,585, Nov. 21; Serial No. 552,616, published Aug. 1, 1950.
Oils, Lubricating, and lubricating greases. A. W. Harris Oil Company. 533,672, Nov. 21; Serial No. 578,792, published Aug. 8, 1950.
Oils, Lubricating, and windmill and pump jack oil. Sears, Roebuck and Co. 533,582, Nov. 21; Serial No. 550,080, published Aug. 22, 1950.
Solvent preparation for use in internal combustion engines, etc. Amberine Products Corporation. 533,581, Nov. 21; Serial No. 549,866, published Aug. 8, 1950.

CLASS 17

Cigarettes and smoking tobacco. Abdulla & Company Limited. 79,623, Sept. 20, 1910. Republished Nov. 21.
Cigars, cigarettes, and smoking tobacco. American Cigar Company. 277,093, renewed Nov. 4, 1950. O. G. Nov. 21.
Tobacco, Chewing. The American Tobacco Company. 278,807, renewed Dec. 30, 1950. O. G. Nov. 21.

CLASS 18

Anaesthetic, Local. C. E. Elgin. 533,677, Nov. 21; Serial No. 579,378, published Aug. 22, 1950.
Antiallergenic expectorant preparation. Sharp & Dohme, Incorporated. 533,747, Nov. 21; Serial No. 584,357, published Aug. 22, 1950.
Antibiotic preparation. Smith, Kline & French Laboratories. 533,786, Nov. 21; Serial No. 586,884, published Aug. 29, 1950.
Anticoagulants. Wisconsin Alumni Research Foundation. 398,198, Oct. 13, 1942. Republished Nov. 21, 1950.
Aspirin. Intermedico Corporation. 533,717, Nov. 21; Serial No. 582,435, published Aug. 22, 1950.
Chemotherapeutic preparation. McNeil Laboratories, Incorporated. 533,769, Nov. 21; Serial No. 585,758, published Aug. 22, 1950.
Drug. Schering Corporation. 533,779, Nov. 21; Serial No. 586,115, published Aug. 22, 1950.
Fluids for parenteral use. Baxter Laboratories, Inc. 533,766, Nov. 21; Serial No. 585,508, published Aug. 22, 1950.
Inhalers, Nasal. Teg Corporation of Dallas, Texas. 533,758, Nov. 21; Serial No. 584,844, published Aug. 22, 1950.
Medicinal preparation. Sharp & Dohme, Incorporated. 533,746, Nov. 21; Serial No. 584,353, published Aug. 22, 1950.
Medicinal preparation. Sharp & Dohme, Incorporated. 533,748, Nov. 21; Serial No. 584,358, published Aug. 22, 1950.
Medicinal preparation. United Drug Company. 275,810, renewed Sept. 30, 1950. O. G. Nov. 21.
Medicinal preparation, Internal. Fitzgerald Products, Inc. 533,720, Nov. 21; Serial No. 582,609, published Aug. 22, 1950.
Pastils, Throat. McKesson & Robbins, Incorporated. 264,347, renewed Nov. 26, 1949. O. G. Nov. 21.
Pharmaceutical preparation. Benger's Limited. 533,739, Nov. 21; Serial No. 583,910, published Aug. 22, 1950.
Pharmaceutical preparation. Schering Corporation. 533,777, Nov. 21; Serial No. 586,112, published Aug. 22, 1950.
Pharmaceutical preparation. Schering Corporation. 533,778, Nov. 21; Serial No. 586,114, published Aug. 22, 1950.
Pharmaceutical preparation. Schering Corporation. 533,780, Nov. 21; Serial No. 586,116, published Aug. 22, 1950.
Pharmaceutical preparations. Du-Ran Products Co. 533,783, Nov. 21; Serial No. 586,403, published Aug. 29, 1950.
Preparation for the treatment of hay fever and asthma. D. E. Bruce. 533,617, Nov. 21; Serial No. 566,566, published July 25, 1950.

Salve. J. P. Bonacio. 533,744, Nov. 21; Serial No. 584,216, published Aug. 22, 1950.
Suppositories, Vaginal. The Norwich Pharmacal Company. 279,063, renewed Jan 6, 1951. O. G. Nov. 21.
Vaginal jelly and protein hydrolysates. Winley Pharmacal Corporation. 533,742, Nov. 21; Serial No. 584,033, published Aug. 22, 1950.

CLASS 19

Carriers, etc., Wheeled. I. Rubin. 533,566, Nov. 21; Serial No. 577,285. (Consolidated certificate, Classes 13, 19, and 32.)
Windshield washer, Vehicle. The Delman Corporation. 533,821, Nov. 21; Serial No. 574,350.

CLASS 21

Fans, Electrical ventilating. T. Barnes. 444,066, July 4, 1950. Republished Nov. 21.
Fence post assemblies, Electric, and parts thereof. Dare Products, Incorporated. 533,822, Nov. 21; Serial No. 574,664.
Lamps, Electric germicidal. James Manufacturing Company. 533,812, Nov. 21; Serial No. 551,107.
Lighting units, Portable self-contained automatic electric. J. T. Powell. 533,834, Nov. 21; Serial No. 586,308.
Receiving sets, Radio. Moskin Stores, Inc. 533,836, Nov. 21; Serial No. 588,701.
Wires, Insulated electric, insulated electric cables and electrical insulating material. Essex Wire Corporation. 538,826, Nov. 21; Serial No. 577,176.

CLASS 22

Artificial bait. The Enterprise Manufacturing Company. 273,825, renewed Aug. 12, 1950. O. G. Nov. 21.
Billiard, pool, snooker, and bagatelle balls. Albany Billiard Ball Company. 278,289, renewed Dec. 16, 1950. O. G. Nov. 21.
Billiard, pool, snooker, and bagatelle balls. Albany Billiard Ball Company. 278,392–3, renewed Dec. 16, 1950. O. G. Nov. 21.
Fishing floats. Duro Wood Products Manufacturing. 533,833, Nov. 21; Serial No. 585,576.
Games. Milton Bradley Company. 277,566, renewed Nov. 18, 1950. O. G. Nov. 21.
Games, Board. Electric Game Company, Inc. 538,810, Nov. 21; Serial No. 542,391.
Spinners. The Enterprise Manufacturing Company. 273,561, renewed Aug. 5, 1950. O. G. Nov. 21.

CLASS 23

Adapters for bibb seat forming tools, air valve keys, basin wrenches, etc. J. A. Sexauer Mfg. Co., Inc. 533,533, Nov. 21; Serial No. 505,254, published June 6, 1950.
Bits, Cutter, cradles, bit holders and set screws therefor. The Cincinnati Mine Machinery Co. 533,790, Nov. 21; Serial No. 589,836, published Aug. 8, 1950.
Chain saws, Portable, and centrifugal pumps. McCulloch Motors Corporation. 533,793, Nov. 21; Serial No. 595,144, published Aug. 1, 1950.
Cleaning, Grain, and separating machinery. Superior Separator Company. 533,660, Nov. 21; Serial No. 576,608, published Aug. 1, 1950.
Conveyors, Portable, adjustable, power belt or gravity. The Rapids-Standard Company. 533,532, Nov. 21; Serial No. 502,711, published July 25, 1950.
Couplers, Air, and air blow guns. Lincoln Engineering Company. 533,540, Nov. 21; Serial No. 527,155, published June 6, 1950.
Cutters and cutter heads. Henry Disston & Sons, Incorporated. 533,759, Nov. 21; Serial No. 584,860, published July 4, 1950.
Die heads, Screw-thread-cutting. Landis Machine Company. 276,140, Oct. 7, 1930. Republished Nov. 21.
Dies. The Armstrong Manufacturing Co. 533,646, Nov. 21; Serial No. 574,482, published June 27, 1950.
Engines, Internal combustion; complete industrial power units; replacement and spare parts for such engines and power units. Wisconsin Motor Corporation. 533,698, Nov. 21; Serial No. 581,049, published Aug. 8, 1950.
Equipment, Diesel engine. Aircraft & Diesel Equipment Corporation. 389,089, July 22, 1941. New certificate. O. G. Nov. 21.
Equipment, Diesel engine. Aircraft & Diesel Equipment Corporation. 509,601, May 10, 1949. New certificate. O. G. Nov. 21.
Extractor units, Portable. J. F. Pritchard & Co. 533,562, Nov. 21; Serial No. 540,709, published Aug. 1, 1950.
Files. Heller Brothers Company. 533,794, Nov. 21; Serial No. 595,461, published Aug. 1, 1950.
Files, rasps, hammers, etc. Heller Brothers Company. 533,796, Nov. 21; Serial No. 597,682, published Aug. 1, 1950.
Flanging machinery, Pneumatic. McCabe Mfg. Co. 533,590, Nov. 21; Serial No. 556,679, published June 27, 1950.
Gas mixing apparatus, etc. Selas Corporation of America. 444,320, Nov. 21; Serial No. 495,511.
Grinding machines. The Thompson Grinder Company. 533,531, Nov. 21; Serial No. 500,496, published June 27, 1950.
Hammers, Babbitt head, and handles for babbitt head hammers. M. Marthinsen. 533,787, Nov. 21; Serial No. 587,200, published Aug. 1, 1950.
Handles, File, and tool handles. Safety Tool Corporation. 533,657, Nov. 21; Serial No. 575,931, published June 27, 1950.
Jigs and clamps, Drill. T. J. Fraser. 533,534, Nov. 21; Serial No. 505,565, published July 25, 1950.
Knitting machines. Montello Products Company. 533,624, Nov. 21; Serial No. 568,322, published July 18, 1950.
Magazines, Safety razor blade, and safety razor blade dispensers. Gillette Safety Razor Company. 444,328, Nov. 21; Serial No. 521,807, published July 18, 1950.
Moulds, Metal. Springfield Tool & Die Co., Inc. 533,609, Nov. 21; Serial No. 564,746, published June 27, 1950.
Movers, Car, and pushers. Wm. McLeish. 77,477, re-renewed Apr. 12, 1950. O. G. Nov. 21.
Pliers, wrenches, screwdrivers, drills, etc. Hall & Co., Inc. 533,604, Nov. 21; Serial No. 562,852, published June 6, 1950.
Presses, Metal forming and stamping, and parts therefor. Clearing Machine Corporation. 533,795, Nov. 21; Serial No. 595,765, published Aug. 1, 1950.
Pumps, Hydraulic deep and shallow well, and parts therefor. M. E. Spangberg. 444,323, Nov. 21; Serial No. 506,394, published June 13, 1950.
Rolling mill machinery; wire mill machinery; ejector units; etc. Morgan Construction Company. 533,571, Nov. 21; Serial No. 544,670, published Aug. 8, 1950.
Rolls, Machine. Stowe-Woodward, Inc. 533,792, Nov. 21; Serial No. 594,865, published Aug. 1, 1950.
Saw, Bone. I. C. Thomas. 533,614, Nov. 21; Serial No. 565,387, published June 6, 1950.
Screening machine, Power driven. The Sandy Hill Iron & Brass Works. 444,331, Nov. 21; Serial No. 524,159, published June 6, 1950.
Sewing machines, electric shavers, electric cloth cutting machines, etc. Argiro Hermanos. 533,803, Nov. 21; Serial No. 519,819.
Sheet metal working machinery. Moon Brothers Limited. 533,573, Nov. 21; Serial No. 545,754, published Aug. 1, 1950.
Stampling machines. Markwell Manufacturing Company, Inc. 533,693, Nov. 21; Serial No. 580,668, published Aug. 1, 1950.
Stapling machines. Markwell Manufacturing Company, Inc. 533,789, Nov. 21; Serial No. 588,307, published Aug. 1, 1950.
Stencil hand stamps; and stencil hand stamping outfits, and cases for containing such hand stamping outfits. The Multistamp Company, Inc. 533,680, Nov. 21; Serial No. 579,612, published Aug. 8, 1950.
Striping tools, Painters'. Wendell Manufacturing Company. 533,663, Nov. 21; Serial No. 577,296, published Aug. 1, 1950.
Textile machinery and parts thereof. Saco-Lowell Shops. 533,568, Nov. 21; Serial No. 542,663, published July 18, 1950.
Tool bars. LaPlant-Choate Manufacturing Co., Inc. 533,643, Nov. 21; Serial No. 574,103, published Aug. 8, 1950.
Tools, Cutting, hydraulic actuating units, machine tool assemblies. Odin Corporation. 444,321, Nov. 21; Serial No. 496,262, published July 25, 1950.
Tools, Machine. Kearney & Trecker Corporation. 533,791, Nov. 21; Serial No. 592,323, published July 18, 1950.
Type casting machine parts. Mergenthaler Linotype Company. 533,682, Nov. 21; Serial No. 579,879, published Aug. 1, 1950.
Unitary apparatus, Industrial. L'Air Liquide, Société Anonyme Pour L'Etude et L'Exploitation des Procedes Georges Claude. 533,601, Nov. 21; Serial No. 562,265, published Aug. 1, 1950.
Vises, Bench, and adjustable work-holding devices. Wilton Tool Company. 533,620, Nov. 21; Serial No. 567,298, published Aug. 1, 1950.

CLASS 24

Clothespins, Plastic. Flexon Plastics Company. 533,599, Nov. 21; Serial No. 561,455, published Aug. 15, 1950.
Dry-cleaning machines. J. E. Martin Equipment Corporation. 533,757, Nov. 21; Serial No. 584,822, published Aug. 1, 1950.
Drying machines. American Laundry Machinery Company. 274,725, renewed Sept. 2, 1950. O. G. Nov. 21.
Gasoline, kerosene, gas and charcoal smoothing irons. S. F. Appliances, Limited. 533,610, Nov. 21; Serial No. 564,969, published Aug. 8, 1950.
Laundry washers, Portable electric. Chicago Electric Manufacturing Company. 533,583, Nov. 21; Serial No. 551,528, published Oct. 11, 1949.
Pads, Ironing board, and ironing board covers. Burlington Mills Incorporated. 533,607, Nov. 21; Serial No. 563,898, published Aug. 8, 1950.
Plants or systems, Dry-cleaning. American Laundry Machinery Company. 275,594, renewed Sept. 23, 1950. O. G. Nov. 21.
Tags for the purpose of identification in dry cleaning, etc. Cleaners Control Systems, Inc. 533,565, Nov. 21; Serial No. 541,092, published Aug. 15, 1950.
Washing machines, Clothes, ironers and mangles. Gamble-Skogmo, Inc. 533,696, Nov. 21; Serial No. 580,881, published July 25, 1950.

CLASS 26

Cameras. Panation Trade Company. 533,622, Nov. 21; Serial No. 587,878, published July 18, 1950.
Cameras, Photographic. Eastman Kodak Company. 533,658, Nov. 21; Serial No. 576,484, published Aug. 8, 1950.
Cameras, Photographic. Eastman Kodak Company. 533,719, Nov. 21; Serial No. 582,525, published June 27, 1950.
Enlarging apparatus, Photographic, photographic cameras, light intensity measuring apparatus and time switches. Simmon Brothers, Inc. 533,711, Nov. 21; Serial No. 582,192, published June 27, 1950.
Film, Motion-picture, and photographic film. Musafilms Ltd. 533,733, Nov. 21; Serial No. 583,544, published July 18, 1950.
Frames, Eyeglass and spectacle, and temple bars thereof. The Kong Manufacturing Company. 533,723, Nov. 21; Serial No. 582,731, published June 27, 1950.
Instruments for measuring radioactivity. Radioactive Products, Inc. 533,700, Nov. 21; Serial No. 581,145, published June 20, 1950.
Lenses, Telephoto. Mansfield Industries, Inc. 533,655, Nov. 21; Serial No. 575,713, published May 2, 1950.
Projecting and exhibiting machine, Continuous motion picture. Traveltips, Inc. 533,690, Nov. 21; Serial No. 580,533, published June 13, 1950.
Projectors, projector screens, projector cases, projection lamps, etc. G-M Laboratories, Inc. 533,728, Nov. 21; Serial No. 583,082, published June 27, 1950.
Projectors, Visual educational. The Visualizer Corporation. 533,718, Nov. 21; Serial No. 582,510, published June 27, 1950.
Regulators, Combined temperature, and automatic gas cut-offs. Robertshaw-Fulton Controls Company. 533,694, Nov. 21; Serial No. 580,748, published June 13, 1950.
Scales, Weighing, and parts thereof. The Exact Weight Scale Company. 533,692, Nov. 21; Serial No. 580,654, published June 27, 1950.
Spectacle frames. Victory Optical Manufacturing Company. 533,707, Nov. 21; Serial No. 581,746, published June 27, 1950.
Sun glasses. Vision Products Co., Inc. 533,754, Nov. 21; Serial No. 584,560, published July 18, 1950.
Tachometers, Electrical and mechanical. The Electric Tachometer Corporation. 533,712, Nov. 21; Serial No. 582,219, published June 20, 1950.

CLASS 27

Clocks. Allied Precision Industries, Inc. 533,788, Nov. 21; Serial No. 587,604, published Aug. 22, 1950.
Clocks. The Lux Clock Manufacturing Company, Inc. 533,752, Nov. 21; Serial No. 584,539, published Aug. 22, 1950.
Clocks. The Western Clock Mfg. Co. 79,089, Aug. 2, 1910. Republished Nov. 21.
Clocks and watches. The Western Clock Mfg. Co. 79,874–5, Oct. 11, 1910. Republished Nov. 21.
Clocks and watches, Western Clock Company. 276,597, Oct. 21, 1930. Republished Nov. 21.
Clocks and watches and parts thereof. L. Harris Company, Inc. 533,773, Nov. 21; Serial No. 585,997, published Aug. 22, 1950.
Springs for watches, clocks. Sandsteel Spring Co., Inc. 533,681, Nov. 21; Serial No. 579,714, published Aug. 22, 1950.
Watches. Bulova Watch Company, Inc. 444,330 Nov. 21; Serial No. 523,742, published Aug. 22, 1950.
Watches, and watches and attached bracelets sold as a unit. Marcel Boucher et Cie. 533,667, Nov. 21; Serial No. 577,421, published Aug. 22, 1950.
Watches, watch cases and watch movements. William B. Ogush, Inc. 533,734, Nov. 21; Serial No. 583,612 published Aug. 22, 1950.

CLASS 28

Bracelets, pendants, brooches, etc. Speidel Corporation. 533,735, Nov. 21; Serial No. 583,712, published Aug. 22, 1950.
Flatware and hollow ware, Sterling silver and silver plated. The Fisher Silversmiths, Inc. 533,724, Nov. 21; Serial No. 582,775, published Aug. 22, 1950.
Flatware and hollow ware, Sterling silver and silver plated. The Fisher Silversmiths, Inc. 533,725, Nov. 21; Serial No. 582,779, published Aug. 22, 1950.
Necklaces, bracelets, finger rings, etc. Coro, Inc. 533,727, Nov. 21; Serial No. 582,950, published Aug. 22, 1950.
Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Weinreich Brothers Company. 533,602, Nov. 21; Serial No. 562,513, published Aug. 29, 1950.
Watch straps, Leather and fabric wrist. Manco Watch Strap Co., Inc. 533,710, Nov. 21; Serial No. 582,178, published Aug. 29, 1950.

CLASS 29

Brushes. Whiting-Adams Company, Inc. 533,530, Nov. 21; Serial No. 509,900, published Aug. 15, 1950.
Puffs, Cleansing, and absorbent puffs. Daggett & Ramsdell. 273,752, renewed Aug. 12, 1950. O. G. Nov. 21.
Sweepers, Carpet. Bloomingdale Bros., Inc. 278,766, renewed Dec. 30, 1950. O. G. Nov. 21.

CLASS 31

Cooling towers, Liquid, and parts thereof. The Marley Company, Inc. 533,664, Nov. 21; Serial No. 577,332, published June 20, 1950.
Cooling towers, Liquid, and parts thereof. The Marley Company, Inc. 533,665, Nov. 21; Serial No. 577,334, published June 20, 1950.
Filter paper. W. & R. Balston, Limited. 533,715, Nov. 21; Serial No. 582,388, published July 18, 1950.

CLASS 32

Bed-springs. Leggett & Platt, Inc. 533,569, Nov. 21; Serial No. 543,818, published Aug. 22, 1950.
Beds, Sofa. Restonic Corporation. 533,709, Nov. 21; Serial No. 581,892, published Aug. 15, 1950.
Cabinets and kitchen tables, Kitchen. Paragon Utilities Corporation. 533,612, Nov. 21; Serial No. 565,298, published Aug. 1, 1950.
Cabinets, Filing. Wassell Organization, Inc. 533,593, Nov. 21; Serial No. 558,086, published Aug. 15, 1950.
Cabinets, Kitchen. The Parsons Company. 533,594, Nov. 21; Serial No. 558,161, published Aug. 22, 1950.
Cabinets, Portable bakery. I. Rubin. 533,566, Nov. 21; Serial No. 577,284, published July 18, 1950. (Consolidated certificate, Classes 13, 19, and 32.)
Chairs, Upholstered living room. Silver Craft Furniture Company. 533,697, Nov. 21; Serial No. 581,033, published Aug. 1, 1950.
Display case, Merchandise. E. J. Brach & Sons. 533,732, Nov. 21; Serial No. 583,325, published Aug. 1, 1950.
Display stands, Foldable. Formed Products Co. 533,761, Nov. 21; Serial No. 585,116, published Aug. 22, 1950.
Furniture. Inca Metal Products Company, Incorporated. 533,547, Nov. 21; Serial No. 533,471, published Aug. 22, 1950.
Furniture. Kittinger Company, Inc. 533,549, Nov. 21; Serial No. 533,904, published Aug. 15, 1950.
Kitchen cabinet structures, Portable. Moorex Industries, Inc. 533,702, Nov. 21; Serial No. 581,278, published Aug. 15, 1950.
Mattresses. R. E. Patterson. 533,561, Nov. 21; Serial No. 538,808, published Aug. 15, 1950.
Mattresses. M. Weisman. 533,603, Nov. 21; Serial No. 562,679, published Aug. 1, 1950.
Mattresses, box springs, coil springs, etc. Simmons Company. 533,564, Nov. 21; Serial No. 540,925, published Aug. 15, 1950.
Racks, Display. T. H. Jenkins Company. 420,822, May 7, 1946. Republished Nov. 21.
Shades, Window. The Chas. W. Breneman Company. 533,730, Nov. 21; Serial No. 583,240, published Aug. 1, 1950.
Slats, Venetian blind. M. M. Young & Company, Inc. 533,567, Nov. 21; Serial No. 542,425, published Aug. 8, 1950.
Spring assemblies. Nachman Corporation. 533,592, Nov. 21; Serial No. 558,053, published Aug. 22, 1950.
Spring-beds. Leggett & Platt Spring Bed & Mfg. Co. 80,366, Dec. 13, 1910. Republished Nov. 21.
Tables, American Desk Manufacturing Company. 533,688, Nov. 21; Serial No. 580,275, published Aug. 1, 1950.
Tray and shelves, Combination. Sta-Tray Company. 533,597, Nov. 21; Serial No. 560,502, published Aug. 15, 1950.
Window tops, Interior ornamental. S. Parkola. 444,322, Nov. 21; Serial No. 501,591, published Aug. 15, 1950.

CLASS 33

Sheet glass, Laminated. Duplate Corporation. 272,530, July 8, 1930. Republished Nov. 21.

CLASS 34

Lighters, Pyrophoric. H. Mayfield. 533,804, Nov. 21; Serial No. 521,102.

CLASS 35

Linings, Brake. M. O. Hammond. 273,893, renewed Aug. 19, 1950. O. G. Nov. 21.
Tires, Automobile and truck, and automobile and truck brake lining, etc. Laher Spring and Tire Corporation. 533,819, Nov. 21; Serial No. 568,636.

CLASS 36

Phonograph records, Mechanically grooved. M. Archuleta. 533,831, Nov. 21; Serial No. 580,007.

CLASS 37

Bank checks, drafts, and personalized checks. Dennison & Sons. 533,770, Nov. 21; Serial No. 585,834, published Aug. 22, 1950.
Binder, Loose-leaf. E. C. Kinney. 533,827, Nov. 21; Serial No. 577,435.
Birth certificate forms, Partially printed. J. D. Schneider. 533,813, Nov. 21; Serial No. 556,291.
Cardboard folders, Protective. Victor Manufacturing & Gasket Co. 533,586, Nov. 21; Serial No. 552,903, published Aug. 22, 1950.
Checks, letterheads, check books, etc. The J. C. Hall Company. 533,640, Nov. 21; Serial No. 573,766, published Aug. 15, 1950.
Napkins, Paper. Tested Papers of America, Inc. 533,615, Nov. 21; Serial No. 565,462, published Aug. 22, 1950.

Napkins, Paper, paper table cloths, etc. Paper Art Company, Inc. 533,538, Nov. 21; Serial No. 523,277, published Apr. 25, 1950.
Paper, Blotting, box cover paper, and cover papers. District of Columbia Paper Mills, Inc. 444,336, Nov. 21; Serial No. 503,505.
Paper, Bond. Fox River Paper Corporation. 533,584, Nov. 21; Serial No. 551,630, published Aug. 15, 1950.
Paper, Coated. Consolidated Water Power & Paper Company. 533,535, Nov. 21; Serial No. 507,110, published Aug. 29, 1950.
Paper, Corrugated, wrapping paper, and paper for making paper containers. Chippewa Paper Products Co., Inc. 533,775, Nov. 21; Serial No. 586,046, published Aug. 22, 1950.
Paper, Drawing, drawing cloth, tracing paper, etc. Spaulding-Moss Company. 533,768, Nov. 21; Serial No. 585,687, published Aug. 29, 1950.
Paper for posters. Milton Bradley Company. 533,740, Nov. 21; Serial No. 583,911, published Aug. 22, 1950.
Paper, Gummed. C. O. Dicks Co. 538,801, Nov. 21; Serial No. 519,467.
Paper sheets, Gummed coated. The Gummed Products Company. 533,548, Nov. 21; Serial No. 533,736, published Aug. 15, 1950.
Paper, Supercalendered sulphite. Rhinelander Paper Company. 533,554, Nov. 21; Serial No. 536,712, published July 25, 1950.
Paper, Waxed wrapping. Pollock Paper Corporation. 533,703, Nov. 21; Serial No. 581,355, published Aug. 8, 1950.
Paper, Wrapping, and tissue paper. Milbrook Paper Co. 533,633, Nov. 21; Serial No. 571,450, published Aug. 15, 1950.
Paper, Writing. Brightwater Paper Company. 533,807, Nov. 21; Serial No. 531,085.
Papers, Coated. McLaurin-Jones Co. 533,636, Nov. 27; Serial No. 571,652, published Aug. 8, 1950.
Papers, Watermarked sulphite writing. Badger Paper Mills, Inc. 533,781, Nov. 21; Serial No. 586,128, published Aug. 22, 1950.
Papers, Wrapping, waxed, and tissue. American Tissue Mills. 533,814, Nov. 21; Serial No. 556,699.
Papers, Writing and printing. Hammermill Paper Company. 533,806, Nov. 21; Serial No. 523,966.
Pencils. The Yankee Pencil Company, Inc. 533,578, Nov. 21; Serial No. 548,208, published Apr. 12, 1949.
Pens, writing pencils, pencil leads. International Business Machines Corporation. 533,648, Nov. 21; Serial No. 574,840, published May 2, 1950.
Printed forms, Blank and partially. C. O. Mois. 533,544, Nov. 21; Serial No. 532,046, published Aug. 29, 1950.
Score cards. V. M. Brooks. 533,611, Nov. 21; Serial No. 565,229, published Aug. 22, 1950.
Stencil kit, Hand. J. D. Sorenson. 533,623, Nov. 21; Serial No. 568,218, published Aug. 15, 1950.
Tablets, Paper. Western Tablet & Stationery Corporation. 444,334, Nov. 21; Serial No. 526,159, published Aug. 22, 1950.
Tablets, School, writing tablets, pocket notebooks, etc. Southwest Tablet Mfg. Co. 533,716, Nov. 21; Serial No. 582,392, published Aug. 15, 1950.
Tablets, Writing. The Morey Mercantile Company. 533,767, Nov. 21; Serial No. 585,599, published Aug. 15, 1950.
Tissue, Toilet. National Paper Corporation of Pennsylvania. 533,689, Nov. 21; Serial No. 580,497, published Aug. 15, 1950.
Tissue, Toilet, facial tissue, and paper towels. K and K Products Company. 533,704, Nov. 21; Serial No. 581,421, published Aug. 22, 1950.
Tissues, Facial. Thomson Paper Mills, Inc. 533,706, Nov. 21; Serial No. 581,627, published Aug. 15, 1950.
Towels, Paper. Bay West Paper Company. 533,823, Nov. 21; Serial No. 575,619.
Towels, Paper. Bay West Paper Company. 533,825, Nov. 21; Serial No. 576,031.
Towels, Paper. Hoberg Paper Mills, Inc. 533,588, Nov. 21; Serial No. 553,109, published Aug. 15, 1950.
Wrappers, Bread. Rapinwax Paper Company. 444,325, Nov. 21; Serial No. 512,748, published Aug. 29, 1950.
Wrappers of paper, wax paper, rubber hydrochloride, regenerated cellulose, plastic and composition materials. Milprint, Inc. 533,800, Nov. 21; Serial No. 518,246.
Wrapping or packaging materials. Yorkville Paper Co., Inc. 533,708, Nov. 21; Serial No. 581,750, published Aug. 8, 1950.
Writing-paper. W. E. Wroe & Company. 79,314, renewed Aug. 23, 1950. O. G. Nov. 21.
Writing-paper. W. E. Wroe & Company. 79,877, renewed Oct. 11, 1950. O. G. Nov. 21.

CLASS 38

Books, Printed, periodicals, and pamphlets. U. N. World, Inc. 533,621, Nov. 21; Serial No. 567,441, published July 18, 1950.
Calendars, Wall, picture mailing cards, and greeting cards. Brown & Bigelow. 533,596, Nov. 21; Serial No. 560,179, published July 4, 1950.
Column, Newspaper. Buffalo Evening News. 273,925, renewed Aug. 19, 1950. O. G. Nov. 21.
Heading for a series of articles. C. Walsh. 273,402, renewed Aug. 5, 1950. O. G. Nov. 21.
Heading for a series of articles. C. Walsh. 274,165, renewed Aug. 19, 1950. O. G. Nov. 21.
Periodical, Monthly. The Junior Literary Guild, Inc. 277,741, Nov. 25, 1930. New certificate. O. G. Nov. 21.

CLASS 39

Diapers, Infants'. Classtex, Inc. 533,678, Nov. 21; Serial No. 579,396, published Aug. 15, 1950.
Garment, Sleeping. E. Meier. 533,679, Nov. 21; Serial No. 579,507, published Aug. 15, 1950.
Gloves, Canvas, cotton, and leather-palm work. Seattle Glove Company. 277,668, renewed Nov. 25, 1950. O. G. Nov. 21.
Hats, straw hats, wool hats, and caps, Men's soft and stiff felt. The Frank H. Lee Company. 274,050, renewed Aug. 19, 1950. O. G. Nov. 21.
Hats, straw hats, wool hats and caps, Men's soft and stiff felt. The Frank H. Lee Company. 276,387, renewed Oct. 21, 1950. O. G. Nov. 21.
Hats, straw hats, wool hats and caps, etc., Men's soft and stiff felt. The Frank H. Lee Company. 276,388, renewed Oct. 21, 1950. O. G. Nov. 21.
Hosiery. Bryan Full Fashioned Mills. 533,661, Nov. 21; Serial No. 576,791, published Aug. 15, 1950.
Hosiery. Penn Hosiery Mills, Inc. 424,851, Oct. 29, 1946. Republished Nov. 21.
Hosiery. Penn Hosiery Mills, Inc. 429,878, May 20, 1947. Republished Nov. 21.
Hosiery. Chester H. Roth Co., Inc. 279,130, renewed Jan. 6, 1951. O. G. Nov. 21.
Hosiery. Chas. A. Stevens & Co. 533,580, Nov. 21; Serial No. 549,189, published Aug. 15, 1950.
Hosiery and gloves. Franklin Simon & Co. Inc. 533,673, Nov. 21; Serial No. 578,901, published Aug. 15, 1950.
Hosiery and underwear, etc. Phoenix Hosiery Company. 278,870, renewed Dec. 30, 1950. O. G. Nov. 21.
Hosiery, Ladies'. P. P. McEvoy. 533,674, Nov. 21; Serial No. 578,988, published Aug. 15, 1950.
Hosiery, Ladies'. P-C Sales Corporation. 533,605, Nov. 21; Serial No. 563,212, published Aug. 15, 1950.
Hosiery, Men's, women's, and children's, and men's, women's, and children's underwear. 279,442, renewed Jan. 13, 1951. O. G. Nov. 21.
Nightgowns, pajamas, slips, Women's and misses', etc. Samuel Solomon, Inc. 533,683, Nov. 21; Serial No. 579,896, published Aug. 15, 1950.
Outer shirts, Men's. Wilk Shirt Corporation. 533,550, Nov. 21; Serial No. 533,957, published June 20, 1950.
Shoe leather welting. Western Leather Company. 533,837, Nov. 21; Serial No. 591,821.
Shoes, Women's leather and fabric. Frederick Loeser & Co. Inc. 278,225, renewed Dec. 9, 1950. O. G. Nov. 21.
Sportswear, Juvenile and boys'. E-Z Mills, Inc. 533,654, Nov. 21; Serial No. 575,034, published Aug. 15, 1950.
Suits, coats, pants, vests, etc. B. Kirshbaum & Company. 269,237, renewed Apr. 1, 1950. O. G. Nov. 21.
Suits, etc., Men's. The Hecht Company. 444,332, Nov. 21; Serial No. 524,459, published May 11, 1948.
Topcoats, overcoats, suits, Men's, etc. Barron, Anderson Company. 273,331, renewed July 29, 1950. O. G. Nov. 21.

CLASS 42

Crib and like sheets of plastic film. International Latex Corporation. 518,460, Dec. 6, 1949. Corrected. O. G. Nov. 21.
Dress goods, Worsted. Garfield Worsted Mills. 184,925, June 3, 1924. Republished Nov. 21.
Fabrics in the piece, Textile. National Fabrics Corporation. 377,426, May 7, 1940. New certificate. O. G. Nov. 21.
Fabrics in the piece, Textile. National Fabrics Corporation. 391,984, Dec. 2, 1941. New certificate. O. G. Nov. 21.
Interlining. The Prints Biederman Company. 79,694, re-renewed Sept. 27, 1950. O. G. Nov. 21.
Piece goods, Cotton. International Shoe Company. 278,568, renewed Dec. 23, 1950. O. G. Nov. 21.

CLASS 44

Cotton tips; cotton-tipped applicators; corn and bunion pads, etc. Johnson & Johnson. 533,626, Nov. 21; Serial No. 568,632, published Aug. 15, 1950.
Gloves, Rubber. The Massillon Rubber Company. 279,035, renewed Jan. 6, 1951. O. G. Nov. 21.
Hearing aids and batteries, Electrical. Dictograph Products Company, Inc. 533,760, Nov. 21; Serial No. 585,107, published Aug. 8, 1950.
Insufflator. Abbott Laboratories. 533,772, Nov. 21; Serial No. 585,984, published Aug. 8, 1950.
Reflector device. B. J. Friedman. 533,687, Nov. 21; Serial No. 580,235, published Aug. 8, 1950.
Rubber articles, Prophylactic. The Reese Chemical Company. 533,811, Nov. 21; Serial No. 549,965.

CLASS 45

Ginger ale. W. A. Bowles. 275,858, renewed Sept. 30, 1950. O. G. Nov. 21.

CLASS 46

Apples, Fresh. H. H. Joseph. 533,750, Nov. 21; Serial No. 584,458, published July 11, 1950.

Baker's material. C. J. Patterson Company. 533,595, Nov. 21; Serial No. 559,174, published July 4, 1950.
Baking powder. Standard Brands Incorporated. 280,290, renewed Feb. 10, 1951. O. G. Nov. 21.
Breakfast food, Cereal. Fisher Flouring Mills Company. 533,529, Nov. 21; Serial No. 474,307, published July 18, 1950.
Butter, cheese, fresh eggs, and canned milk. L. Daitch & Co., Inc. 533,659, Nov. 21; Serial No. 576,524, published June 27, 1950.
Candies. Bunte Brothers. 533,555, Nov. 21; Serial No. 536,998, published July 18, 1950.
Candies; and peanut products. Lion Specialty Co. 533,543, Nov. 21; Serial No. 531,342, published June 6, 1950.
Candy. National Licorice Company. 533,835, Nov. 21; Serial No. 587,126.
Canned fish. Central Packing Company. 533,695, Nov. 21; Serial No. 580,768, published July 11, 1950.
Canned foods. Societe Anonyme Maison Amieux Freres. 533,589, Nov. 21; Serial No. 556,031, published June 27, 1950.
Canned fruits and berries. National Fruit Canning Co. 533,587, Nov. 21; Serial No. 552,999, published June 27, 1950.
Canned fruits and canned fish. Parrott & Co. 533,530, Nov. 21; Serial No. 497,196, published July 11, 1950.
Canned mixed fruits. F. M. Ball & Company. 533,809, Nov. 21; Serial No. 541,070.
Canned tomatoes, canned tomato paste, canned fruits, etc. Manteca Canning Company. 279,724, renewed Jan. 20, 1951. O. G. Nov. 21.
Canned tuna. Hawaiian Tuna Packers, Limited. 533,542, Nov. 21; Serial No. 530,504, published July 18, 1950.
Canned vegetables, fruits, and apple juice. Comstock Canning Corporation. 533,545, Nov. 21; Serial No. 532,563, published July 11, 1950.
Cereals, Prepared, lard, tallow, etc. Galban Lobo Company Importing and Exporting Association, S. A. 339,282, Oct. 6, 1936. Restricted. O. G. Nov. 21.
Cheese food. South Kaukauna Dairy Company. 533,671, Nov. 21; Serial No. 578,294, published June 13, 1950.
Chocolate coating. Ambrosia Chocolate Company. 533,701, Nov. 21; Serial No. 581,231, published June 27, 1950.
Coating for ice cream bars. Eskimo Pie Corporation. 533,818, Nov. 21; Serial No. 566,126.
Coffee. Atwood Coffee Company. 533,574, Nov. 21; Serial No. 546,170, published July 18, 1950.
Coffee and tea. Food Fair Stores, Inc. 533,613, Nov. 21; Serial No. 565,331, published July 11, 1950.
Coffees, teas and spices. William S. Scull Company. 78,648, June 28, 1910. Republished Nov. 21.
Composition for standardizing the acidity of foods. Mineralized Products Co., Inc. 533,738, Nov. 21; Serial No. 583,879, published July 11, 1950.
Concentrated preparation being an extract of yeast. The Marmite Food Extract Co., Limited. 79,220, Aug. 16, 1910. Republished Nov. 21.
Cookies. Golden Bear Cookie Co. Inc. 273,196, July 22, 1930. Republished Nov. 21.
Corn, Cut, broccoli, peaches, etc. Braddock Frosted Foods, Inc. 533,802, Nov. 21; Serial No. 519,728.
Crackers. The Maryland Biscuit Company. 444,333, Nov. 21; Serial No. 525,899, published July 11, 1950.
Dog food. Southern States Cooperative, Incorporated. 533,652, Nov. 21; Serial No. 575,500, published July 4, 1950.
Doughnut mix, Prepared. Choice Foods, Inc. 533,816, Nov. 21; Serial No. 560,683.
Doughnuts. McCrory Stores Corporation. 533,627, Nov. 21; Serial No. 568,745, published Sept. 27, 1949.
Feed. Hales & Hunter Co. 533,572, Nov. 21; Serial No. 544,863, published July 18, 1950.
Feeds, Dog, cat, and poultry biscuit. W. G. Clarke & Sons (1929) Limited. 533,668, Nov. 21; Serial No. 577,944, published June 27, 1950.
Feeds for turkeys. The Quaker Oats Company. 274,364, renewed Aug. 26, 1950. O. G. Nov. 21.
Flavoring preparation. N. V. R. Bulsman's Gebrande Suikerpoederfabriek. 533,829, Nov. 21; Serial No. 579,123.
Flour, Wheat. Bilish Milling Company. 533,570, Nov. 21; Serial No. 544,318, published July 18, 1950.
Flour, Wheat. B. A. Eckhart Milling Co. 533,575, Nov. 21; Serial No. 546,978, published June 20, 1950.
Flour, Wheat. The New Era Milling Company. 272,450, July 8, 1930. Republished Nov. 21.
Flour, Wheat. Tex-O-Kan Flour Mills Co. 533,797, Nov. 21; Serial No. 599,921, published Sept. 5, 1950.
Flour, Wheat. Van Dusen Harrington Co. 533,552, Nov. 21; Serial No. 536,183, published July 18, 1950.
Flour, Wheat, and self-rising flour. Ballard & Ballard Co. 262,922, Oct. 29, 1929. Republished Nov. 21.
Flour, Wheat, and self-rising flour. Ballard & Ballard Co. 263,144, Oct. 29, 1929. Republished Nov. 21.
Flour, Wheat, and self-rising flour. Ballard & Ballard Co. 267,781, Mar. 4, 1930. Republished Nov. 21.
Flours, Whole and part grain wheat, and corn meal, and rolled oats and rolled wheat cereals, etc. Eastern States Farmers' Exchange. 533,631, Nov. 21; Serial No. 569,361, published June 27, 1950.
Flours, Whole and part grain wheat, and corn meal, etc. Eastern States Farmers' Exchange. 533,630, Nov. 21; Serial No. 569,359, published June 27, 1950.
Food, Article of. F. B. Chamberlain Company. 79,648, re-renewed Sept. 17, 1950. O. G. Nov. 21.
Food concentrate. D. A. Long. 533,686, Nov. 21; Serial No. 580,198, published July 11, 1950.
Food products. Universal Cocoa Products Corporation. 353,805, Jan. 18, 1938. Republished Nov. 21.
Fruit, Fresh citrus. Polis & Hagan. 533,537, Nov. 21; Serial No. 521,925, published July 11, 1950.
Fruit products, Preserved. Commerce of California. 533,619, Nov. 21; Serial No. 567,132, published July 11, 1950.
Fruits, Fresh deciduous. Sebastopol Fruit Growers Association. 533,577, Nov. 21; Serial No. 548,106, published July 18, 1950.
Glucose or corn syrup. Corn Products Refining Company. 278,159, renewed Dec. 9, 1950. O. G. Nov. 21.
Hams. The Smithfield Company, Incorporated. 261,524, renewed Sept. 17, 1949. O. G. Nov. 21.
Ice cream bars, Frozen. Eskimo Pie Corporation. 533,685, Nov. 21; Serial No. 580,127, published July 11, 1950.
Ice-cream cones. McLaren-Consolidated Cone Corporation. 273,512, Aug. 5, 1930. New certificate. O. G. Nov. 21.
Ice cream confections, Frozen. Snelgrove Ice Cream Company. 533,729, Nov. 21; Serial No. 583,175, published July 11, 1950.
Juice, Passion fruit. Pashon Products Limited. 533,591, Nov. 21; Serial No. 557,463, published June 27, 1950.
Lard, sausage, and cottage butts. Kohrs Packing Company. 272,435, July 8, 1930. Republished Nov. 21.
Milk-chocolate powder and malted-milk chocolate powder. E. B. Moshier. 279,769, renewed Jan. 21, 1951. O. G. Nov. 21.
Molasses. W. B. Roddenbery. 279,141, renewed Jan. 6, 1951. O. G. Nov. 21.
Nuts in the shell. Wm. A. Camp Co., Inc. 533,551, Nov. 21; Serial No. 533,990, published July 11, 1950.
Pastilles, Licorice. Pix Aktiebolag. 533,608, Nov. 21; Serial No. 564,402, published June 6, 1950.
Peanuts, Fried. F. V. Cowan. 533,650, Nov. 21; Serial No. 574,998, published July 11, 1950.
Pickles, Sweet mixed; fresh cucumbers, sweet pickle chips, etc. Susan Baker Products, Inc. 533,563, Nov. 21; Serial No. 540,752, published June 13, 1950.
Popcorn. J. E. Donaldson. 444,324, Nov. 21; Serial No. 512,399, published May 11, 1948.
Pork products. The Taylor Provision Co. 533,600, Nov. 21; Serial No. 561,536, published June 27, 1950.
Potato chips. The Mann Company of Washington. 533,641, Nov. 21; Serial No. 573,884, published June 27, 1950.
Preparation consisting of salt, spices, herbs, etc., for use in preserving smoked and fresh sausage. B. Heller & Company. 533,628, Nov. 21; Serial No. 568,795, published July 11, 1950.
Preserves, Fruit. Globe Products Co., Inc. 533,666, Nov. 21; Serial No. 577,382, published June 27, 1950.
Raisins. Enoch Packing Company. 533,751, Nov. 21; Serial No. 584,485, published July 11, 1950.
Riboflavin concentrate. Commercial Solvents Corporation. 533,669, Nov. 21; Serial No. 578,116, published July 11, 1950.
Sauce, Flavoring. G. F. Heublein & Bro., Inc. 533,805, Nov. 21; Serial No. 523,265.
Sausage and cottage butts. Kohrs Packing Company. 272,758, July 15, 1930. Republished Nov. 21.
Scallops, Frozen. L. V. Drape. 533,722, Nov. 21; Serial No. 582,680, published June 27, 1950.
Sea Foods, Frozen. Cape Fear Cold Storage Company. 538,828, Nov. 21; Serial No. 577,875.
Sugar, Pure cane. Southdown Sugars, Inc. 533,618, Nov. 21; Serial No. 566,896, published June 6, 1950.
Tomatoes, Fresh. Haudenshield Company, Inc. 533,546, Nov. 21; Serial No. 532,589, published July 4, 1950.
Vinegar and pickles. St. Louis Vinegar & Cider Co. 533,560, Nov. 21; Serial No. 538,452, published June 6, 1950.
Vitamin and mineral containing yeast preparation. Delta-for Aktiebolag. 533,558, Nov. 21; Serial No. 537,390, published July 11, 1950.

CLASS 50

Charcoal incubators. Sears, Roebuck and Co. 273,585, Aug. 5, 1930. Republished Nov. 21.
Container closures. C. M. Koster. 533,817, Nov. 21; Serial No. 563,886.
Trestles. National Tool & Die Company, Inc. 533,808, Nov. 21; Serial No. 538,950.

CLASS 51

Cold, beauty, cleansing, refreshing, finishing, massage, and bleaching creams. The E. L. Patch Company. 279,016, renewed Jan. 6, 1951. O. G. Nov. 21.
Cold cream. Daggett & Ramsdell. 273,291, renewed July 29, 1950. O. G. Nov. 21.
Dental paste. United Drug Company. 275,787, renewed Sept. 30, 1950. O. G. Nov. 21.
Deodorant and antiperspirant. J. B. Nethercutt. 444,329, Nov. 21; Serial No. 522,891, published Jan. 3, 1950.
Eau de cologne. Lehn & Fink Products Corporation. 533,670, Nov. 21; Serial No. 578,148, published July 25, 1950.

Perfume preparation. P. Campbell. 348,354, July 27, 1937. Republished Nov. 21.
Perfumes. Lucien Lelong, Inc. 533,684, Nov. 21; Serial No. 579,986, published July 25, 1950.
Preparation, Liquid, to prevent people from biting their finger nails. Child Welfare Guild, Inc. 270,703, renewed May 13, 1950. O. G. Nov. 21.
Shaving cream. United Drug Company. 275,296, renewed Sept. 23, 1950. O. G. Nov. 21.
Shaving creams. Comfort Manufacturing Co. 280,016, renewed Feb. 10, 1951. O. G. Nov. 21.
Soap and shaving cream. Daggett & Ramsdell. 274,006–7, renewed Aug. 19, 1950. O. G. Nov. 21.
Toilet creams, toilet lotions, toilet powders, etc. Daggett & Ramsdell. 273,973–4, renewed Aug. 19, 1950. O. G. Nov. 21.
Toilet creams, toilet lotions, toilet powders, etc. Daggett & Ramsdell. 274,005, renewed Aug. 19, 1950. O. G. Nov. 21.

CLASS 52

Antiseptic liquid detergent. Piatt & Smillie Chemicals, Inc. 533,736, Nov. 21; Serial No. 583,815, published Aug. 8, 1950.
Cleaner, synthetic floor, wall and woodwork. The Selig Company, Inc. 533,741, Nov. 21; Serial No. 583,954, published Aug. 8, 1950.
Cleansing compound, Granulated chemical. Oakley Chemical Co. 80,673, re-renewed Jan. 17, 1951. O. G. Nov. 21.
Waterless hand-cleanser. Sugar Beet Products Company, Inc. 533,721, Nov. 21; Serial No. 582,659, published Aug. 22, 1950.

CLASS 103

Services rendered at applicant's automotive service stations. Standard Oil Company of California. 533,798, Nov. 21; Serial No. 549,186, published July 25, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Drake, Virgil R.: *See*—
Hopper, William H., and Drake.

General Motors Corporation, assignee: *See*—
Liston, Max D.

Hopper, William H., Edison, and V. R. Drake, Los Angeles, Calif., assignors to Washmobile Corporation. Vehicle washer. Re. 23,294, Nov. 21.

Liston, Max D., Darien, Conn., assignor to General Motors Corporation, Detroit, Mich. Modulated heat ray detector. Re. 23,295, Nov. 21.

Washmobile Corporation, assignee: *See*—
Hopper, William H., and Drake.

LIST OF PLANT PATENTEES

Bohne, Henry F., Middletown, Ohio. Philodendron plant. 990, Nov. 21.

DePetris, Inc., assignee: *See*—
DePetris, Vincent R.

DePetris, Vincent R., Grosse Pointe Farms, Mich., assignor to DePetris, Inc. Chrysanthemum plant. 988, Nov. 21.

McLellan, E. W., Company, assignee: *See*—
McLellan, Roderick I., and Morrow.

McLellan, Roderick I., Hillsborough, and N. B. Morrow, San Bruno, assignors to E. W. McLellan Company, Colma, Calif. Gardenia plant. 989, Nov. 21.

Morrow, Norman B.: *See*—
McLellan, Roderick I., and Morrow.

Stuart, C. W., & Co., assignee: *See*—
Verschuren, Hendrikus A. M.

Verschuren, Hendrikus A. M., Haps, Netherlands, assignor, by mesne assignments, to C. W. Stuart & Co., Newark, N. Y. Rose plant. 991, Nov. 21.

LIST OF DESIGN PATENTEES

Addressograph-Multigraph Corporation, assignee: *See*—
Hunt, Guilbert M.

Affiliated Gas Equipment, Inc., assignee: *See*—
Greene, Harry R.

Alexander, Joseph, New York, N. Y. Flocked fabric. 160,913, Nov. 21.

Alexander, Joseph, New York, N. Y. Flocked fabric. 160,914, Nov. 21.

American Hospital Supply Corporation, assignee: *See*—
Berner, Harry M.

Arnold, Harley E., and G. W. Saffran, Toledo, Ohio. Antennae insulator. 160,915, Nov. 21.

Augenstein, Karl C., Cranston, R. I., assignor to Spiedel Corporation Jewelry component or similar article. 160,916, Nov. 21.

Augenstein, Karl C., Cranston, R. I., assignor to Spiedel Corporation. Watch bracelet or similar article. 160,917, Nov. 21.

AVCO Manufacturing Corporation, assignee: *See*—
Reynolds, Jr.

Berner, Harry M., Chicago, assignor to American Hospital Supply Corporation, Evanston, Ill. Basin stand. 160,918, Nov. 21

Brooks, Donald W., Oradell, N. J. Toothbrush. 160,919, Nov. 21.

Brooks, George, Jr., St. Paul, Minn. Condiment shaker. 160,920, Nov. 21.

Bruner, Marvin J., assignee: *See*—
Ritter, Saul.

Carl-Art, Inc., assignee: *See*—
Schrayshuen, Carl.

Chambers Corporation, assignee: *See*—
Williams, Willis E., and Harrison.

Chase, Herbert S., and G. C. Mathes, New York, N. Y. Holder for tissues or the like. 160,921, Nov. 21.

Ciulla, Salvatore L., Port Richmond, N. Y. Cut hair blower or similar article. 160,922, Nov. 21.

Collins, Edward J., Los Angeles, assignor to United States Woodcraft Corporation, Redondo Beach, Calif. Bowling game table. 160,923, Nov. 21.

Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Vanity case. 160,924, Nov. 21.

Crapsey, Arthur H., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Camera. 160,925, Nov. 21.

Crapsey, Arthur H., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Camera. 160,926, Nov. 21.

Crowley, John C., Willoughby, Ohio. Valve operating spray nozzle cap unit. 160,927, Nov. 21.

D'Aleo, Paul F., Valley Stream, N. Y. Hood for securing means of money bags or the like. 160,928, Nov. 21.

Davis, Edward D., Chula Vista, and N. Shaeffer, Los Angeles, Calif.; said Shaeffer assignor to said Davis. Combined palette and water jar. 160,929, Nov. 21.

Doho Chemical Corporation, assignee: *See*—
Heintze, Walter T.

Donahue, Ann T.: *See*—
Heintze, Walter T., and Donahue.

Duff, Robert B., Crookston, Minn. Stand for beverage dispensers. 160,930, Nov. 21.

Eastman Kodak Company, assignee: *See*—
Crapsey, Arthur H., Jr.

Eaton, William W., Milford, Conn., and H. T. Olson, Baldwin, assignors to Remington Rand Inc., New York, N. Y. Document photographing machine. 160,931, Nov. 21.

Ekco Products Company, assignee: *See*—
Wagner, Franz.

Finch, Leonard E., assignor to West Bend Aluminum Co., West Bend, Wis. Cooking apparatus. 160,932, Nov. 21

Florence Stove Company, assignee: *See*—
Kruck, Ralph E.

Fostoria Glass Company, assignee: *See*—
Heintze, Walter T., and Donahue.

Fowler, William D., assignor to Sharon Optical Company, Inc., Geneva, N. Y. Machine for generating spherical surfaces on articles. 160,933, Nov. 21.

Fuller Brush Company, The, assignee: *See*—
Wild, Edward.

Galbreath, Robert H., Denver, Colo. Ash tray. 160,934, Nov. 21.

Glaeser, Henry A., Wilmington, Del. Combined lamp and telephone stand. 160,935, Nov. 21.

Gluck, Jack, New York, N. Y. Textile fabric. 160,936, Nov .21.

Goldman, Leonard H., Phoenix, Ariz. Advertising cabinet. 160,937, Nov. 21.

Greene, Harry R., Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Overhead space heater or similar article. 160,938, Nov. 21.

Greene, Harry R., Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Overhead heater or similar article. 160,939, Nov. 21.

Griesinger, Walter H., Portland, Oreg. Nipple. 160,940, Nov. 21.

Harrison, Edward W.: *See*—
Williams, Willis E., and Harrison.

Havens, Basil M., Bastian, Va. Trousers. 160,941, Nov. 21.

Heintze, Walter T., Elizabeth, N. J., assignor to Doho Chemical Corporation, New York, N. Y. Bottle. 160,942, Nov. 21.

Heintze, Walter T., Elizabeth, N. J., and A. T. Donahue, New York, N. Y., assignors to Fostoria Glass Company, Moundsville, W. Va. Centerpiece. 160,943, Nov. 21.

Herman, Julian, New York, N. Y. Child's trousers. 160,944, Nov. 21.

Hill, Maxie A., assignee: *See*—
Robbins, John R.
Hockery, John C., assignee, trustee: *See*—
Whitfill, Elton F., and Talge.
Holzhausen, Graham, New York, N. Y. Combination bathroom fixture. 160,945, Nov. 21.
Hunt, Guilbert M., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Duplicating machine. 160,946, Nov. 21.
Kingson, Justin L., New York, N. Y. Tinsel appliqued fabric. 160,947, Nov. 21.
Kisling, Jacob W., St. Louis County, Mo. Air circulator unit. 160,948, Nov. 21.
Knell, Alek, Los Angeles, Calif. Traveling case. 160,949, Nov. 21.
Kruck, Ralph E., Clinton, Conn., assignor to Florence Stove Company, Gardner, Mass. Range. 160,950, Nov. 21.
Kruck, Ralph E., Clinton, Conn., assignor to Florence Stove Company, Gardner, Mass. Range. 160,951, Nov. 21.
Limbach, Curtis A., Hartsdale, N. Y. Narrow textile fabric or the like. 160,952, Nov. 21.
Mathes, George C.: *See*—
Chase, Herbert S., and Mathes.
Mettler, Joseph A., Indianapolis, Ind. Captive ball game board. 160,953, Nov. 21.
Muench, Charles M., New York, N. Y. Liturgical fabric or similar article. 160,954, Nov. 21.
Mulloy, William T., Covington, Ky. Liturgical fabric or similar article. 160,955, Nov. 21.
Olson, Harold T.: *See*—
Eaton, William W., and Olson.
Pearl, Daniel M. and E. M., Chicago, Ill. Fender lamp or similar article. 160,956, Nov. 21.
Pearl, Erwin M.: *See*—
Pearl, Daniel M. and E. M.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 160,957, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or similar article. 160,958, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 160,959, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 160,960, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,961, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,962, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,963, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,964, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 160,965, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,966, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 160,967, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or similar article. 160,968, Nov. 21.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 160,969, Nov. 21.
Remington Rand Inc., assignee: *See*—
Eaton, William W., and Olson.
Reynolds, Carl, Jr., Birmingham, Mich., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Radio receiver cabinet. 160,970, Nov. 21.
Ritter, Saul, assignor of one-half to M. J. Bruner, New York, N. Y. Link chain for a bracelet or similar article. 160,971, Nov. 21.
Robbins, John R., assignor to M. A. Hill, San Antonio, Tex. Bonnet. 160,972, Nov. 21.
Saffran, George W.: *See*—
Arnold, Harley E., and Saffran.
Saparow, Samuel, Los Angeles, Calif. Lady's coat with detachable hood. 160,973, Nov. 21.
Schrayershuen, Carl, Providence, R. I., assignor to Carl-Art, Inc. Pendant or the like. 160,974, Nov. 21.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 160,975, Nov. 21.
Shaeffer, Norbert: *See*—
Davis, Edward D., and Shaeffer.
Shroff, Lloyd B., Clay Township, St. Joseph County, Ind. Fishing lure. 160,976, Nov. 21.
Sharon Optical Company, Inc., assignee: *See*—
Fowler, William D.
Simon, Justin, Woodmere, and R. S. Temko, New York, N. Y. Cigarette lighter. 160,977, Nov. 21.
Spiedel Corporation, assignee: *See*—
Augenstein, Karl C.
Sykes, Carl E., Norfolk, Va. Combined automobile fender molding and ornament. 160,978, Nov. 21.
Talge, Henry J.: *See*—
Whitfill, Elton F., and Talge.
Tannehill, Vernon L., Fort Wayne, Ind. Golf game apparatus. 160,979, Nov. 21.
Temko, Richard S.: *See*—
Simon, Justin, and Temko.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
United States Woodcraft Corporation, assignee: *See*—
Collins, Edward J.
Wadsworth Watch Case Company, The, assignee: *See*—
Conant, Arthur P.
Wagner, Franz, assignor to Ekco Products Company, Chicago, Ill. Handle for kitchen utensils or similar articles. 160,980, Nov. 21.
Wagner, Franz, assignor to Ekco Products Company, Chicago, Ill. Handle for kitchen utensils or similar articles. 160,981, Nov. 21.
West Bend Aluminum Co., assignee: *See*—
Finch, Leonard E.
Whitfill, Elton F., and H. J. Talge, assignors to J. C. Hockery, Kansas City, Mo., as trustee. Vegetable slicer. 160,982, Nov. 21.
Wild, Edward, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Combination eraser and brush. 160,983, Nov. 21.
Wild, Edward, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Combination eraser and brush. 160,984, Nov. 21.
Williams, Willis E., Shelbyville, and E. W. Harrison, Indianapolis, Ind., assignors to Chambers Corporation. Backsplash panel for a cooking range. 160,985, Nov. 21.
Williams, Willis E., Shelbyville, and E. W. Harrison, Indianapolis, Ind., assignors to Chambers Corporation. Backsplash panel for a cooking range. 160,986, Nov. 21.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. B. C. Sheet Metal Co., Inc., assignee: *See*—
Brett, Lewis P.
Abel, David M., New York, N. Y., assignor to D. Blau. Artist's sketch box. 2,531,189, Nov. 21.
Ace Carton Corporation, assignee: *See*—
Sanford, Roy S.
Ackelsberg, Oscar J., Caldwell, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y. Emulsifier consisting of alkylolamine-fatty acid condensation products and esters of polyglycols. 2,531,190, Nov. 21.
Acme Staple Company, assignee: *See*—
Cook, Lyman B.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Castle, Francis J., and Beal.
Air Reduction Company, Incorporated, assignee: *See*—
Dennis, Wolcott.
Albert, Edward V., New Rochelle, T. H. Randall, Jr., Beacon, and E. M. Barber, Wappingers Falls, assignors to The Texas Company, New York, N. Y. Fuel-air ratio controller. 2,531,243, Nov. 21.
Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Detonation indicating apparatus. 2,530,931, Nov. 21.
Allbert, Eugene F., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Load balancing motor control system. 2,530,930, Nov. 21.
Allen-Bradley Company, assignee: *See*—
Bradley, Harry L.
Allers, Earl V., Chicago, Ill. Curtain wall support for automobile seats and the like. 2,531,096, Nov. 21.
Allied Chemical & Dye Corporation, assignee: *See*—
De Benneville, Peter L., and Segool.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Ray, James L.
Alma, Gerrit H. P., and P. F. van Eldik, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Amplifying system provided with parallel electron discharge paths having different mutual conductances. 2,530,591, Nov. 21.
Alpert, Sidney, and G. J. Martin, Philadelphia County, assignors to The National Drug Company, Philadelphia, Pa. Aqueous amino acid solutions. 2,531,097, Nov. 21.
Alter, Harry, Company, The, assignee: *See*—
Cahenzli, Martin T., Jr., and Muffly.
Aluminum Air Seal Manufacturing Company, assignee: *See*—
Webster, Clifford L.
Aluminum Company of America, assignee: *See*—
Thornton, Kirby F., and Schumm.
Alvarez, Luis W., Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Radio-echo detection and location apparatus for approaching hostile craft. 2,530,418, Nov. 21.
American Can Company, assignee: *See*—
Wallace, Sidney J.
American Cyanamid Company, assignee: *See*—
Hook, Edwin O., and Moss.
Kropa, Edward L., and Padbury.
American Hospital Supply Corporation, assignee: *See*—
Johnson, Axel E. F.
American-La France-Foamite Corporation, assignee: *See*—
Scholz, Edward R.
American Machine and Foundry Company, assignee: *See*—
Frye, Sanders A.
American Steel Foundries, assignee: *See*—
Helsten, Wesley A.
Tack, Carl E., and Bachman.
Amesbury, Robert R., Wellesley, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Turnable T-member type molding fastener. 2,531,348, Nov. 21.
Amos, James L.: *See*—
Stober, Kenneth E., and Amos.
Amsler, Alfred J., & Co., assignee: *See*—
Russenberger, Max.
Anderson, Edward L. and L. B., Los Angeles, assignors of one-half to G. H. Bucklin, Fresno, Calif. Primary cell. 2,530,751, Nov. 21.
Anderson, Lulu B.: *See*—
Anderson, Edward L. and L. B.
Anderson, Marshall, Marblehead, Mass., assignor to General Electric Company. Driving mechanism. 2,531,098, Nov. 21.
Anderson, William C., Oak Park, assignor to Illinois Tool Works, Chicago, Ill. Screw feeding hopper. 2,531,099, Nov. 21.
Andrews, Edward F., assignor, by mesne assignments, to J. P. Seeburg Corporation, Chicago, Ill. Selector mechanism for automatic phonographs. 2,531,374, Nov. 21.
Andrews, O. B., Company, assignee: *See*—
Turner, William E.
Andrus, John R., Brooklyn, assignor to S. Apostoluk, New York, N. Y. Garment clasp. 2,531,244, Nov. 21.
Ansul Chemical Company, assignee: *See*—
Guise, Arthur B., and Johnson.
Anzovino, Joseph A.: *See*—
Di Paolo, Gerard R., and Anzovino.
Apostoluk, Stephen, assignee: *See*—
Andrus, John R.
Aries, Robert S., New York, N. Y. Convertible baby carriage. 2,530,592, Nov. 21.
Arkay Infants Wear, Inc., assignee: *See*—
Buchler, Ernest.
Ark-Les Switch Corporation, assignee: *See*—
Batcheller, Hugh W.
Arnold, George B., Glenham, and H. V. Hess, Fishkill, assignors to The Texas Company, New York, N. Y. Dethiolizing of hydrocarbons by means of ethylene oxide. 2,530,561, Nov. 21.
Art Metal Construction Company, assignee: *See*—
Clark, Floyd H., Hager, and Larson.
Arthur, Oscar F., Connellsville, Pa. Pallet. 2,530,752, Nov. 21.
Arthur, Oscar F., Connellsville, Pa. Crate. 2,530,797, Nov. 21.
Arthur, Robert A., Santa Monica, and J. M. Kemper, Hollywood, assignors to The Garrett Corporation, Los Angeles, Calif. Regulator. 2,531,100, Nov. 21.
Arvins, Nathan A.: *See*—
Arvintz, Abraham A., Arvins, and R. A. Arvintz.
Arvins, Nathan A., and A. A. Arvintz, Brooklyn, N. Y., assignors to Blazel Corporation. Preheater. 2,530,798, Nov. 21.
Arvintz, Abraham A.: *See*—
Arvins, Nathan A., and Arvintz.
Arvintz, Abraham A., and N. A. Arvins, Brooklyn, and R. A. Arvintz, New York, assignors to Sanicom Company, Inc., Brooklyn, N. Y. Paint preheating and spraying apparatus. 2,530,799, Nov. 21.
Arvintz, Robert A.: *See*—
Arvintz, Abraham A., Arvins, and R. A. Arvintz.
Askania Regulator Company, assignee: *See*—
Glass, Paul.
Atchley, Lela F., Oklahoma City, Okla. Hose supporter. 2,530,850, Nov. 21.
Atlas Valve Company, assignee: *See*—
Davis, Verner F.
Atwell, Clarence A., and R. H. Wagner, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Compensating coil. 2,530,932, Nov. 21.
Atwood, Lyle C., and A. Johnson, assignors to Atwood Vacuum Machine Company, Rockford, Ill. Bicycle stabilizer. 2,530,498, Nov. 21.
Atwood Vacuum Machine Company, assignee: *See*—
Atwood, Lyle C., and Johnson.
Audet, Alfred J., Providence, R. I. Combination oil cooler and air conditioning device for automotive vehicles. 2,531,019, Nov. 21.
Auer, Laszlo, South Orange, N. J. Coating material emulsions. 2,530,370, Nov. 21.
Auerbach, Zemach, Bronx, N. Y. Razor with means for reconditioning the cutting edges of razor blades. 2,530,499, Nov. 21.
Augenstein, Karl C., Cranston, assignor to Speidel Corporation, Providence, R. I. Wrist watch connector. 2,530,800, Nov. 21.
Automatic Electric Laboratories, Inc., assignee: *See*—
Baker, George T.
Bloomenthal, Sidney, and Wood.
Dimmer, Robert P.
Voss, John H., and Jones.
AVCO Manufacturing Corporation, assignee: *See*—
Briggs, Arthur T.
Avenia, Thomas, New York, N. Y. Bicycle fork fixture. 2,530,500, Nov. 21.
Avril, Arthur C., Cincinnati, Ohio. Apparatus for proportioning and mixing materials. 2,530,501, Nov. 21.
Ayres, Reginald J.: *See*—
Stuart, Raymond H., and Ayres.
Babcock, Havilah, Jr., Columbia, S. C., assignor to Babcock Honey Company. Ventilated, insulated cover for beehives. 2,530,801, Nov. 21.
Babcock Honey Company, assignee: *See*—
Babcock, Havilah, Jr.
Bachman, Fred E.: *See*—
Tack, Carl E., and Bachman.

Bailey, Lawrence H., Cheltenham, Pa., assignor to F. J. Stokes Machine Company. Sifting feeder for powder compressing machines. 2,531,245, Nov. 21.

Baker, Benjamin P., Turtle Creek, and Jack E. Schrameck, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,530,933, Nov. 21.

Baker, George T., Liverpool, England, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system employing finder switches for connecting calling lines to numerical switches. 2,530,802, Nov. 21.

Baker, Melvin D.: *See*—
Embler, Herbert V., and Baker.

Baldwin Locomotive Works, The, assignee: *See*—
Macgeorge, William D.

Balfour-Guthrie & Company Limited, assignee: *See*—
Peterson, Russell G., and Brieger.

Baney, Harry N., Muncie, Ind., assignor to Borge-Warner Corporation, Chicago, Ill. Milling machine head. 2,530,342, Nov. 21.

Baney, Harry N., L. A. C. Slentz, A. A. Kirkpatrick, and C. E. Brickley, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Shaft concentricity testing and assorting machine. 2,531,317, Nov. 21.

Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Change-speed transmission control. 2,530,753, Nov. 21.

Barber, Everett M.: *See*—
Albert, Edward V., Randall, and Barber.

Barbour Welting Company, assignee: *See*—
Vizard, William C.

Bard, F. S., assignee: *See*—
Clark, Robert S.

Bard, Francis N., Highland Park, Ill. Joint. 2,531,020, Nov. 21.

Bard, Francis N., Highland Park, Ill. Swing joint. 2,531,021, Nov. 21.

Barsch, Guillaume, Geneva, Switzerland. Dry shaving apparatus. 2,531,191, Nov. 21.

Barton, Alfred P., U. S. Navy, Chevy Chase, Md., and E. P. Hurd, Detroit, Mich. Making receptacles for pyrotechnic fillings. 2,530,934, Nov. 21.

Bastian-Blessing Company, The, assignee: *See*—
Connell, William S.

Bashwiner, Charles, Great River, N. Y. Draperies. 2,530,593, Nov. 21.

Batchelier, Hugh W., Newton, assignor, by mesne assignments, to Ark-Les Switch Corporation, Watertown, Mass. Clicker mechanism for spindles. 2,531,246, Nov. 21.

Bateman, Norman S., and M. F. Missiaen, assignors to Construction Improvements Limited, Toronto, Ontario, Canada. Cableway hoist. 2,531,022, Nov. 21.

Battle, John B., Los Angeles, Calif. Battery cable and post clamp. 2,531,247, Nov. 21.

Baxter, Harry: *See*—
Markis, John L., and Baxter.

Baxter, Harry, Garrettsville, and J. L. Markis, Bristolville, Ohio. Automatic control for heating systems. 2,530,563, Nov. 21.

Beal, Robert E.: *See*—
Castle, Francis J., and Beal.

Beam Products, Inc., assignee: *See*—
Dietz, Waldemar.

Beardsley, John A., Detroit, Mich. Combination golf club. 2,530,446, Nov. 21.

Bearer, Louis C.: *See*—
Robinson, Sam P., and Bearer.

Becker, Morris, assignor to Federal Auto Products Co., Chicago, Ill. Lawn sprinkler system. 2,531,101, Nov. 21.

Beckwith, Bernard J., Lake Village, Ind. Wheel gauge. 2,531,102, Nov. 21.

Beckwith, Robert W., North Syracuse, N. Y., assignor to General Electric Company. Frequency shift oscillator circuit. 2,531,103, Nov. 21.

Be-Ge Manufacturing Co., assignee: *See*—
Gurries, Albert G.

Beigel, Henry L., ancillary administrator: *See*—
Merté, Willy W.

Belch, Keith R., Annapolis, Md., assignor to Weems Navigation, Inc., Washington, D. C. Position finder. 2,531,248, Nov. 21.

Bell & Howell Company, assignee: *See*—
Crumrine, Chester W.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bowen, Arnold E.
Brill, Melville D.
Carmer, Bertram H., Jr., and Dutra.
Cheeseman, Leonard E., and Mendenhall.
Clogston, Albert M.
De Lange, Owen E.
Duhnkrack, George H.
Fox, Arthur G.
Galbreath, Robert R.
Gibney, Robert B.
Gilman, George W.
Green, Estill I.
Hansen, Harry.
Kent, Stanley B.
King, Kenneth L.
Kock, Winston E.
Kreer, John G., Jr.
Mason, Warren P.

Bell Telephone Laboratories, Incorporated, assignee: *See*—Continued.
Mattke, Charles F.
Mumford, William W.
Rack, Alois J.
Rasmussen, Oswald E.
Roth, Walater L.
Snyder, James M.
Turnbull, William J., Jr.
Wallace, Robert L., Jr.
Yenzer, George R.

Benchley, Robert, Jr.: *See*—
Ebert, Ludwig, and Benchley.

Bendix Aviation Corporation, assignee: *See*—
Gilbert, Samuel.
Gleasman, Hollis K.

Bendix Aviation Corporation, assignee: *See*—
Ofeldt, August W.
Stamper, Hamilton A.
Winchel, Henry T.

Benedict, Emily, assignee: *See*—
Benedict, Fremont W.

Benedict, F. W., assignee: *See*—
Benedict, Fremont W.

Benedict, Fremont W., Upper Darby, assignor to F. W. and E. Benedict, E. W. and E. Hipp, co-partners trading under the name of Bruell Products Company, Philadelphia, Pa. Separating solid matter from hot wort. 2,530,594, Nov. 21.

Benjamin Reel Products, Inc., assignee: *See*—
Johnson, James E., and Ylrava.

Bennett, Stephen S., Flint, Mich. Pan type vapor burner. 2,530,675, Nov. 21.

Benson, Albert H., Hopewell, N. J. Repairing slide fasteners. 2,530,371, Nov. 21.

Benson, Anton A.: *See*—
Sherwin, Frank, and Benson.

Berberich, Leo J.: *See*—
Strom, Albert P., and Berberich.

Berg, Leo F., Oak Park, and W. R. McDowell, Westchester, Ill., assignors to Hotpoint Inc. Thermal controlled cooking vessel. 2,530,643, Nov. 21.

Berg, Louis B., and J. E. Martin, San Antonio, assignors, by mesne assignments, to R. W. Carter, Luling, Tex. Flotation separator and extractor. 2,530,676, Nov. 21.

Berger, Kornel, Kew Gardens, N. Y. Lamp harp. 2,531,023, Nov. 21.

Berger, Samuel L., Newark, N. J. Toy machine gun. 2,530,803, Nov. 21.

Bergonzo, Charles, Moutier, Switzerland. Several color lead holder pencil. 2,530,674, Nov. 21.

Bergstrom, Eric V., Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Elevating particle-form solids with bucket conveyer. 2,531,192, Nov. 21.

Berkenkotter, Edward L., Elmwood Park, and J. H. Herz, Chicago, Ill. Apparatus for plating crankshafts. 2,530,677, Nov. 21.

Bernas, Robert: *See*—
Yardeny, Michel N., and Bernas.
Yardeny, Michel N., Bernas, and Goldberg.

Beveridge, Clifford: *See*—
Hibbert, John W., Robertson, and Beveridge.

Biasca, Frank E.: *See*—
Johnson, Arnold L., Carlson, and Biasca.

Bienert, Frank, Bronx, N. Y. Oar. 2,530,754, Nov. 21.

Bigelow-Sanford Carpet Co., Inc., assignee: *See*—
Reinhardt, Henry A., and Harrison.

Biggs, Henry L., Phoenix, Ariz., assignor of one-half to G. B. Olson, Council Bluffs, Iowa. Rug needle. 2,530,851, Nov. 21.

Bingham, David W., Brighton, Victoria, Australia. Apparatus for filling containers with liquid. 2,530,755, Nov. 21.

Birdsall, Ida E., Manasquan, N. J. Abacus. 2,530,447, Nov. 21.

Bixby, Willard F., Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Production of dry powdery thermoplastic compositions. 2,530,852, Nov. 21.

Blackhawk Mfg. Co., assignee: *See*—
Mandl, Siegmund, and Pfauser.

Blaha, Emil, Cheltenham, assignor to Selas Corporation of America, Philadelphia, Pa. Tile furnace. 2,530,595, Nov. 21.

Blair, James D., New Hartford, and G. A. Hendey, Rome, assignors to Divine Brothers Company, Utica, N. Y. Buff construction. 2,531,249, Nov. 21.

Blaney, Dorothy L., Los Angeles, Calif., assignor to Radio Corporation of America. Monitoring system for magnetic recording. 2,530,562, Nov. 21.

Blaney, Dorothy L., Los Angeles, Calif., assignor to Radio Corporation of America. Editing and inspection of invisible sound tracks. 2,530,564, Nov. 21.

Blau, Dave, assignee: *See*—
Abel, David M.

Blazel Corporation, assignee: *See*—
Arvins, Nathan A., and Arvintz.

Blesh, Raymond T., Wadsworth, assignor to Seiberling Latex Products Co., Akron, Ohio. Bathing cap. 2,531,318, Nov. 21.

Blok, Lourens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Measuring circuits for intermodulation measurements. 2,530,596, Nov. 21.

Blomberg, Martin P.: *See*—
Finigan, Andrew G., Bruchtel, and Blumberg.

Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Draft gear. 2,530,756, Nov. 21.

Bloom, Richard A., Chicago, Ill., assignor to National Biscuit Company, New York, N. Y. Carton blank feeder. 2,530,644, Nov. 21.

Bloomenthal, Sidney, Chicago, and F. E. Wood, McHenry, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Lubricating compound. 2,530,804, Nov. 21.

Bock, Ashley P., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermal protective device for electronic devices. 2,530,935, Nov. 21.

Bockman, Theodore, Evanston, assignor to Universal Oil Products Company, Chicago, Ill. Catalyst contacting apparatus. 2,530,645, Nov. 21.

Bocquel, René: *See*—
De France, Henri G., and Bocquel.

Boecking, Ewald, Great Kills, assignor to Manufacturers Machine & Tool Co., Inc., Mount Vernon, N. Y. Pad roller device for motion-picture projecting machines. 2,530,448, Nov. 21.

Bohannan, Robert S., assignor to Toledo Scale Company, Toledo, Ohio. Load responsive pressure transmitter. 2,531,104, Nov. 21.

Bohl, William F., Jr., assignor to Training Devices, Inc., Detroit, Mich. Film projecting apparatus. 2,530,936, Nov. 21.

Bohls, Sidney W., Austin, Tex., assignor to Hynson, Westcott & Dunning, Incorporated. Aluminum penicillin. 2,530,372, Nov. 21.

Bohmker, Thomas W., Geneseo, C. W. Walz, Rock Island, and J. H. Clark, assignors to Deere & Company, Moline, Ill. Beet harvester. 2,531,193, Nov. 21.

Bolinger, George N., Shelbyville, Ill. Beaded barrette. 2,531,024, Nov. 21.

Bond, John A., Houston, Tex., assignor to McCullough Tool Company, Los Angeles, Calif. Casing perforating gun. 2,530,805, Nov. 21.

Bonham, William H., Metuchen, assignor to Nixon Nitration Works, Nixon, N. J. Continuous extrusion machine. 2,530,503, Nov. 21.

Boone, Paul D.: *See*—
Turk, Amos, and Boone.

Bopp, Walter, Tucson, Ariz. Food macerator and liquifier. 2,531,250, Nov. 21.

Borg, George W., Corporation, The, assignee: *See*—
Fink, Jean.

Borg-Warner Corporation, assignee: *See*—
Baney, Harry N.
Baney, Harry N., Slentz, Kirkpatrick, and Brickley.
Harris, Cleo.

Bourland, Ell, Millbrae Highlands, assignor to Pacific Can Company, San Francisco, Calif. Can unscrambler. 2,530,419, Nov. 21.

Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency electronic device. 2,530,373, Nov. 21.

Bowen, Arnold E., Fair Haven, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotatable vane type attenuator with plug in or out elements. 2,531,194, Nov. 21.

Boxrud, Alf M., Minneapolis, Minn. Electric space heater. 2,530,806, Nov. 21.

Boyer, Ralph K., Lakewood, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Gauge chuck. 2,530,504, Nov. 21.

Boykin, John R., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency modulator. 2,530,937, Nov. 21.

Bradley, Harry L., assignor to Allen-Bradley Company, Milwaukee, Wis. Cushioned magnetic switch. 2,531,025, Nov. 21.

Bransky, David W., Chicago, Ill., and N. E. Lemmon, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Extraction of sulfuric acid sludge. 2,530,757, Nov. 21.

Brennan, Catherine, North Bay, Ontario, Canada. Pleating for garments. 2,530,678 Nov. 21.

Brennan, Joseph B., Bratenahl, Ohio. Casting. 2,530,853, Nov. 21.

Brennan, Joseph B., Cleveland, Ohio. Casting apparatus. 2,530,854, Nov. 21.

Brett, Lewis P., Fort Wayne, Ind., assignor to A. B. C. Sheet Metal Co., Inc. Air duct construction. 2,531,349, Nov. 21.

Breuning, Karl, Flushing, N. Y. Plunger type photoflash switch. 2,530,938, Nov. 21.

Brickley, Charles E.: *See*—
Baney, Harry N., Slentz, Kirkpatrick, and Brickley.

Brieger, Gerard R.: *See*—
Peterson, Russell G., and Brieger.

Briggs, Arthur T., Williamsport, Pa., assignor to AVCO Manufacturing Corporation. Engine lubricating apparatus. 2,531,319, Nov. 21.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.
Madié, Alain M.

Brill, Elkanah H., Birmingham, Mich. Flashlight switch operating mechanism. 2,530,505, Nov. 21.

Brill, Melville D., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resonant impedance branch. 2,530,679, Nov. 21.

Briscoe, Elmer G., Fresno, Calif. Tool bar mount. 2,530,565, Nov. 21.

Bristol Company, The, assignee: *See*—
Cowherd, Robert D.

Broadway, Leonard F., Ickenham, England, assignor to Electric and Musical Industries, Ltd. Electron discharge device employing cavity resonator. 2,531,195, Nov. 21.

Brown, James D., assignor to Toledo Scale Company, Toledo, Ohio. Steak treating machine. 2,531,105, Nov. 21.

Brown, Robert J. S., Lawndale, Calif., and H. G. Weiss, Waltham, Mass., assignors to the United States of America as represented by the United States Atomic Energy Commission. Pocket radiation alarm. 2,531,106, Nov. 21.

Brown, William, Nottingham, England. Epicyclic variable-speed gearing. 2,530,646, Nov. 21.

Brown, William E.: *See*—
Lawson, John W., and Brown.

Browne, Thomas E., Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter with arc extinguishing shunt. 2,530,939, Nov. 21.

Brownlow, David B., and J. J. Markoski, assignors to The Russell Manufacturing Company, Middletown, Conn. Venetian blind tape cutting machine. 2,530,420, Nov. 21.

Brubaker, Merlin M., Boothwyn, and R. A. Jacobson, Landenburg, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vinyl polymers and producing the same. 2,531,196, Nov. 21.

Brubaker, Merlin M., Chadds Ford, and R. A. Jacobson, Landenberg, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Asymmetrical dichloroethylene/isobutylene interpolymers. 2,531,197, Nov. 21.

Bruchtel, Frank: *See*—
Finigan, Abdrew G., Bruchtel, and Blomberg.

Bruckmeier, Fred: *See*—
Pater, Herman, and Bruckmeier.

Bruell Products Company, assignee: *See*—
Benedict, Fremont W.

Bruet, Henri R., Neuilly-sur-Seine, and T. Lafitte, Paris, France. Device for immobilizing a piece with respect to another one/in at least one predetermined position. 2,531,198, Nov. 21.

Bruno, Carl, Encino, Calif. Adjustable stilt. 2,531,251, Nov. 21.

Brunson, Amber N., Independence, Mo. Surveying instrument. 2,531,252, Nov. 21.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Hedenskoog, Ernest.

Buchler, Ernest, Sunnyside, assignor to Arkay Infants' Wear, Inc., Richmond Hill, N. Y. Garment. 2,530,647, Nov. 21.

Buchwald, Charles E., Flushing, N. Y., and J. Ehret, Jr., Trenton, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Treating refractory articles. 2,530,506, Nov. 21.

Bucklin, Gladys H., assignee: *See*—
Anderson, Edward L. and L. B.

Bucyrus-Erie Company, assignee: *See*—
Davidson, Trevor O.
Wells, Robert L.

Buffington, George D.: *See*—
Thomson, Alec, and Buffington.

Bugg, Kenly C., and H. L. Hart, Fort Wayne, Ind., said Hart assignor to said Bugg. Tube setting. 2,530,855, Nov. 21.

Burch, Roy F., Sr., Denver, Colo. Locking type hair-waving rod. 2,530,374, Nov. 21.

Burdick Corporation, The, assignee: *See*—
Maris, James B.

Burkey, Carl E., Seattle, Wash. Bumper attachment clamp for car-top carriers. 2,531,107, Nov. 21.

Burkhardt, Thomas E., assignor to General Motors Corporation, Dayton, Ohio. Rust removing. 2,531,320, Nov. 21.

Burkholder, Alden H., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for treating twisted filamentary materials. 2,530,680, Nov. 21.

Burness, Thomas P. N., and A. Johnson, Halifax, England. Appliance for use in cutting and polishing diamonds and other substances. 2,530,421, Nov. 21.

Burns, Fred J., Saginaw, Mich., assignor to The Columbia Mills, Inc., New York, N. Y. Venetian blind. 2,530,422, Nov. 21.

Busch, Tom N.: *See*—
Evans, John L., and Busch.

Bush, Ean L., San Francisco, Calif. Crab trap. 2,530,449, Nov. 21.

Bush, Howard F.: *See*—
Young, Douglass A., Lenehan, and Bush.

Cabot, Samuel, Inc., assignee: *See*—
Hermann, Augustus H.

Cadella, Anthony, Bridgeport, Conn. Fruit cutter and juicer. 2,531,026, Nov. 21.

Cahenzli, Martin T., Jr., Chicago, Ill., and G. Muffly, Springfield, Ohio, assignors to The Harry Alter Company, Chicago, Ill. Combination accumulator, heat exchanger, and metering device for refrigerating systems. 2,530,648, Nov. 21.

Calder, William G.: *See*—
Jewell, Howard W., Calder, and Stringfield.

California Research Corporation, assignee: *See*—
Cope, John Q., and Scott.
Dauphiné, Thonet C.
Elwell, William E.
Shaw, Charles M.
Toland, William G., Jr.

Callahan, Horace D., Hobart, Ind. Snowplow. 2,530,856, Nov. 21.

Campbell, Dick A., Tama, Iowa. Front-wheel mudguard attachment for tractors. 2,530,857, Nov. 21.

Campbell, Erwin A.: *See*—
Woolslayer, Homer J., Campbell, and Jenkins.

Campbell, Erwin A., Wexford, assignor to Lee C. Moore Corporation, Pittsburgh, Pa. Jacking structure for towers. 2,530,807, Nov. 21.

Campbell, John F., Euclid, Ohio. Fuel injection apparatus and control. 2,530,507, Nov. 21.

Canadian Industries Limited, assignee: *See*—
Martin, Arthur H.

Carden, Norman F., Jr., Durham, N. C. Attachment for presses. 2,531,253, Nov. 21.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Fuel supply system for continuous combustion turbine type aircraft. 2,530,649, Nov. 21.

Carlson, Elmer G.: *See*—
Johnson, Arnold L., Carlson, and Biasca.

Carmer, Bertram H., Jr., Maplewood, and F. A. Dutra, Wyckoff, N. J.; said Carmer assignor to Bell Telephone Laboratories, Incorporated, and said Dutra assignor to Western Electric Company, Incorporated, New York, N. Y. Supporting detail for flexible conductors. 2,530,812, Nov. 21.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Phillips, Freeman J.

Caroselli, Alberico and D. A., Jersey City, N. J. Camera mounting apparatus. 2,531,254, Nov. 21.

Caroselli, Dominick A.: *See*—
Caroselli, Alberico and D. A.

Carroll, James M., assignor to The Monarch Manufacturing Works, Inc., Philadelphia, Pa. Oil burner. 2,531,027, Nov. 21.

Carson, Casimir, Dearborn, Mich. Calculating board. 2,530,423, Nov. 21.

Carter, Robert W., assignee: *See*—
Berg, Louis B., and Martin.

Cartwright, Victor H., Dunlap, Ill. Lifting fork with gripping means. 2,530,375, Nov. 21.

Case, J. I., Company, assignee: *See*—
Tallman, William B.

Casey, Taggart, New York, N. Y. Adjustable garment hanger. 2,531,108, Nov. 21.

Cashman, Aloysius F.: *See*—
Lieber, Eugene, and Cashman.

Cast, Don T., Columbus, Ohio. Car top sleeping compartment. 2,530,450, Nov. 21.

Castle, Francis J., and R. E. Beal, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Vacuum distillation. 2,530,376, Nov. 21.

Cederholm, Carl E.: *See*—
Cederholm, Carl I. and C. E.

Cederholm, Carl I. and C. E., South Worthington, Mass. Grease gun loading device. 2,530,944, Nov. 21.

Celanese Corporation of America, assignee: *See*—
Drewitt, James G. N.
Kotzebue, Meinhard H.

Cerasi, Vincent C., Tuckahoe, N. Y. Waterworks device. 2,530,808, Nov. 21.

Cerniak, Henry L., assignor to National Steel Container Corporation, Chicago, Ill. Agitator. 2,530,858, Nov. 21.

Cerny, Joseph J., Chicago, Ill. Electrical resistor and making same. 2,531,321, Nov. 21.

Chairtown Manufacturing Company, assignee: *See*—
Cook, Joseph S.

Champion Paper and Fibre Company, The, assignee: *See*—
Stoddard, William B., Jr.

Chance, A. B. Company, assignee: *See*—
Linde, Leonard J.

Chandler, F. Opal, executrix: *See*—
Chandler, Fred K.

Chandler, Fred K., deceased, Des Moines, Iowa: F. O. Chandler, executrix of said F. K. Chandler, assignor to The Tanvilac Company, Des Moines, Iowa. Culturing apparatus. 2,530,597, Nov. 21.

Chapman, James F., Madison, and K. Riess, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical instrument enclosure. 2,530,945, Nov. 21.

Chapman, James E., Phoenix, Ariz., assignor to The Garrett Corporation, Los Angeles, Calif. Travel and load limit system for screw actuators. 2,531,109, Nov. 21.

Charles, Daniel, Paris, France, assignor to Compagnie Generale de T. S. F. Ion generators. 2,530,859, Nov. 21.

Charpentier, Paul, Choisy-le-Roi, assignor to Societe des Usines Chimiques Rhone-Poulene, Paris, France. Phenothiazines. 2,530,451, Nov. 21.

Chattler, Leo M., Washington, D. C. Automatic open center six port control valve. 2,530,377, Nov. 21.

Cheesman, Leonard E., Clifton, and H. E. Mendenhall, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secondary electron emitter. 2,530,946, Nov. 21.

Cheesman, Leonard E., Clifton, and H. E. Mendenhall, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secondary electron emitter. 2,530,947, Nov. 21.

Chenicek, Joseph A., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Metal deactivator. 2,530,650, Nov. 21.

Chicago Forging and Manufacturing Company, assignee: *See*—
Sigel, Carl A.

Chicopee Manufacturing Corporation, assignee: *See*—
Smith, John J.

Children's Furniture Corporation, assignee: *See*—
Wickman, Howard G.

Chrastina, John, assignor of twenty-four and one-half per cent to W. Diefenthaler and twenty-four and one-half per cent to C. C. Poarch, Decatur, Ill. Receptacle for a switch. 2,531,350, Nov. 21.

Christensen, Alfred C., Chicago, assignor, by mesne assignments, to H. S. Simpson, Evanston, Ill., as trustee. Sand recovery apparatus. 2,530,651, Nov. 21.

Christensen, Norman V., and C. F. Rubel, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,530,860, Nov. 21.

Christenson, Roger M., and S. W. Gloyer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Fractionation of tall oil. 2,530,809, Nov. 21.

Christenson, Roger M., and S. W. Gloyer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Separation of unsaponifiable matter from tall oil residue. 2,530,810, Nov. 21.

Christman, Harold E., San Jose, Calif. Refrigerating system having air circulating means. 2,530,598, Nov. 21.

Christofilos, Nicolas C., or N. C. Philos, Athens, Greece. Electron accelerating apparatus. 2,531,028, Nov. 21.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. T-head molding fastener with tensioning member. 2,531,351, Nov. 21.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Turnable T-member type molding fastener. 2,531,352, Nov. 21.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Druey, Jean.

Cirone, William T., assignor of seventy-five per cent to Photocheck Company, Yuma, Ariz. Identification and fingerprint camera. 2,530,758, Nov. 21.

Cisler, Marvin C., Fayetteville, N. Y., assignor to General Electric Company. Wiring duct. 2,531,110, Nov. 21.

Clancy, Gilbert E., assignor to Drayer-Hanson, Incorporated, Los Angeles, Calif. Reversible cycle system. 2,530,681, Nov. 21.

Clark, Floyd H., Douglaston, B. M. Hager, and O. J. Larson, assignors to Art Metal Construction Company, Jamestown, N. Y. Filing device. 2,530,566, Nov. 21.

Clark, James H.: *See*—
Bohmker, Thomas W., Walz, and Clark.

Clark, Robert S., Albany, N. Y., assignor, by mesne assignments, to F. N. Bard, Chicago, Ill. Apparatus for recording the operation of control levers of electrically driven vehicles. 2,530,508, Nov. 21.

Clarke, John D., Downers Grove, assignor to Morris Paper Mills, Chicago, Ill. Container and display insert. 2,531,255, Nov. 21.

Clasen, Charles B., Reno, Nev. Sash lock. 2,531,256, Nov. 21.

Cleveland Hobbing Machine Company, The, assignee: *See*—
Staples, Otis E.

Cline, Norman, Chicago, Ill. Adjustable cornice for draperies and the like. 2,530,567, Nov. 21.

Clogston, Albert M., Morris Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron injection space discharge device. 2,530,948, Nov. 21.

Cohee, Rolland F., Jr., Wheaton, Ill., assignor to Corn Products Refining Company, New York, N. Y. Treating vinegar. 2,531,029, Nov. 21.

Cohen, Joseph S., Great Neck, N. Y., assignor to Chairtown Manufacturing Company, Gardner, Mass. Detachable chair base. 2,531,322, Nov. 21.

Coldsnow, Van B., St. Clair Shores, assignor to Dihydrol Company, Detroit, Mich. Water treatment pump with measuring trap. 2,530,682, Nov. 21.

Coleman, Ralph M., C. H. La Mar, and H. N. Robertson, El Paso, Tex. Selective passenger registration meter for taxicabs. 2,530,861, Nov. 21.

Collins, Laurence H., and E. C. Smith, Baltimore, Md. Electric razor. 2,530,759, Nov. 21.

Collins Radio Company, assignee: *See*—
Livingood, John J., Peters, and Streeter.

Collins, Sammy G., Oklahoma City, Okla. Stencil stamp. 2,530,378, Nov. 21.

Colonial Radio Corporation, assignee: *See*—
Pifer, Marion J., Meyer, and McGarvey.

Columbia Mills, Inc., The, assignee: *See*—
Burns, Fred J.

Commercial Solvents Corporation, assignee: *See*—
Keko, Wilbur L., and Martin.

Compagnie Generale d'Electricite, assignee: *See*—
Pernic, Joseph, and Leroy.

Compagnie Generale de T. S. F., assignee: *See*—
Charles, Daniel.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Gutton, Henri, and Hugon.
Ortusi, Antoine J., and Ponte.

Connell, William S., Norwood Park Township, Cook County, assignor to The Basitan-Blessing Company, Chicago, Ill. Refrigeration cabinet. 2,531,323, Nov. 21.

Conradson, Prentice H., Chicago, Ill., assignor of one-half to T. P. Slattery. Timing mechanism. 2,530,599, Nov. 21.

Consolidated Development & Improvements Corp., assignee: *See*—
Yardeny, Michel, Bernas, and Goldberg.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Fink, Frank W., and Morgan.

Construction Improvements Limited, assignee: *See*—
Bateman, Norman S., and Missiaen.

Conveyor Systems, Inc., assignee: *See*—
Hoeffleur, Arthur V.

Cook, Gerhard A., Snyder, N. Y., assignor to The Linde Air Products Company. Production of propylene oxide. 2,530,509, Nov. 21.

Cook, Lee R.: *See*—
Emerson, Charles G., and Cook.

Cook, Lyman B., Haddon Township, Camden County, assignor to Acme Staple Company, Camden, N. J. Staple having a closed loop and making the same. 2,530,811, Nov. 21.

Cope, John Q., El Cerrito, and J. W. Scott, Jr., Berkeley, assignors to California Research Corporation, San Francisco, Calif. Preparation of alkylated aromatic hydrocarbons and sulfonation thereof. 2,531,324, Nov. 21.

Corn Products Refining Company, assignee: *See*—
Cohee, Rolland F., Jr.

Cornell, Franklin M., Brooklyn, N. Y. Screening ball mill. 2,530,862, Nov. 21.

Coronet Phosphate Company, assignee: *See*—
Hollingsworth, Clinton A.
Maust, Ernest J.

Cotner, Walter W., Ithaca, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic system for energizing direct-current motors from an alternating current supply. 2,530,949, Nov. 21.

Coulthard, William, Scotby, near Carlisle, England. Die-casting machine. 2,530,760, Nov. 21.

Cowherd, Robert D., West Terre Haute, Ind., assignor to The Bristol Company, Waterbury, Conn. Vent control for processing containers. 2,531,257, Nov. 21.

Craft, William S., Cranford, N. J., assignor to Standard Oil Development Company. Tunnel-type bubble cap and controlling vapor distribution therethrough. 2,531,030, Nov. 21.

Craig, Rufus, Hobbs, N. Mex. Snapper attachment for wrench handles. 2,530,863, Nov. 21.

Crane Co., assignee: *See*—
Petrie, Engene C., and Trefil.

Crane Packing Company, assignee: *See*—
Payne, Frank E.

Cranfill, Otis, Groesbeck, assignor of one-half to B. F. Weekley, Fort Worth, Tex. Dual flowing device. 2,531,258, Nov. 21.

Crompton & Knowles Loom Works, assignee: *See*—
Turner, Richard G.

Crowley, John A., Jr.: *See*—
Simpson, Thomas P., Payne, and Crowley.

Crown Cork & Seal Company, Inc., assignee: *See*—
Warth, Albin H.

Crumrine, Chester W., Irondequoit, N. Y., assignor, by mesne assignments, to Bell & Howell Company, Chicago, Ill. Film position indicator for cameras. 2,530,510, Nov. 21.

Cudini, Roger G., Birmingham, Mich., assignor to Moynahon Bronze Company. Folding stool. 2,531,259, Nov. 21.

Cuttat, Georges E., Geneva, Switzerland, assignor to Manufacture de Machines du Haut-Rhin, Haut-Rhin, France. Automatic lathe. 2,530,813, Nov. 21.

Daddona, Anthony J., assignor to Hardinge Brothers, Inc., Elmira, N. Y. Feed chuck. 2,530,568, Nov. 21.

Daddona, Anthony J., assignor to Hardinge Brothers, Inc., Elmira, N. Y. Separating the spring fingers of feed chucks. 2,530,569, Nov. 21.

Dahlin, John, Minneapolis, Minn. Wall construction. 2,530,940, Nov. 21.

Da-Lite Screen Company, Inc., assignee: *See*—
Heck, John T., Du Mais, and Talbot.

Danciger Oil & Refining Company, assignee: *See*—
Greene, David H.

Daniels, Lee C., Cleveland, Ohio, assignor to The Oliver Corporation, Chicago, Ill. Friction drive rubber track. 2,531,111, Nov 21.

Danner, Edward, Newark, Ohio. Glass severing means and process. 2,530,511, Nov. 21.

Danzer, Frank, Rochester, Wash. Log turner for portable sawmills. 2,530,683, Nov. 21.

Darling, Woodrow, Merchantville, N. J., assignor to Radio Corporation of America. Relay satellite broadcast system. 2,531,199, Nov. 21.

Dauphiné, Thonet C., Irvington on Hudson, N. Y., assignor to California Research Corporation, San Francisco, Calif. Regeneration of hydrofluoric acid catalyst. 2,531,112, Nov. 21.

Davenport, William E., Lima, Ohio. Animated figure toy. 2,531,260, Nov. 21.

Davidson, Trevor O., Milwaukee, assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Tread-belt link and cooperating driving tumbler. 2,530,379, Nov. 21.

Davis, Claude E., and E. D. Stevenson, Fullerton, Calif. Fog light attachment for headlights. 2,530,685, Nov. 21.

Davis, Elwood T., Brookline, assignor to Leeds and Northrup Company, Philadelphia, Pa. Automatic control system using non-linear responsive elements. 2,531,200, Nov. 21.

Davis, George W.: assignee: *See*—
Davis, Wilbur A.

Davis, George W., Gibson City, Ill. Rotary sickle mower. 2,530,684, Nov. 21.

Davis, Verner F., West Orange, assignor to Atlas Valve Company, Newark, N. J. Snap-action control mechanism. 2,530,652, Nov. 21.

Davis, Wells L.: *See*—
Marco, Salvatore M., and Davis.

Davis, Wilbur A., assignor of one-half to G. W. Davis, Gibson City, Ill. Clip for pens and pencils. 2,531,113, Nov. 21.

De Becze, George, and A. J. Liebmann, Cincinnati, Ohio, assignors to Schenley Industries, Inc. Apparatus for aerating liquids. 2,530,814, Nov. 21.

De Benneville, Peter L., Philadelphia, Pa., and H. D. Segood, Flushing N. Y., assignors to Allied Chemical & Dye Corporation. Benzhydryl esters as insecticides. 2,530,653, Nov. 21.

Decca Record Company, Limited, The, assignee: *See*—
O'Brien, William J.

De Cesaris, Frederick, Johnston, R. I., assignor to James Manufacturing Co., Inc. Key holder. 2,531,325, Nov. 21.

Deere & Company, assignee: *See*—
Bohmker, Thomas W., Walz, and Clark.

De France, Henri G., and R. Bocquel, assignors to Tele-Industrie S. A. R. L., Paris, France. Television device for recording motion-pictures thereof. 2,531,031, Nov. 21.

De Fremery, Frank, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radio direction finder. 2,530,600, Nov. 21.

De Graaff, Antonius, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Current regulator tube. 2,530,686, Nov. 21.

De Lange, Owen E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic control circuits for radar systems. 2,531,201, Nov. 21.

Delegard, Carl J., Chicago, and M. J. Nardulli, Elmwood Park, Ill., assignors to M. J. Nardulli, A. F. Naples, P. F. Nardulli, and W. H. Mozal, as trustees, under a trust known as Western Engineering Trust. Manufacture of framed panels. 2,531,375, Nov. 21.

Dell'Anno, Francisco, Buenos Aires, Argentina. Artificial tooth. 2,530,601, Nov. 21.

Deloghia, Louis E., Agawam, assignor to Perkins Machine and Gear Company, West Springfield, Mass. Operating mechanism for washing machines and the like. 2,531,353, Nov. 21.

Delsordo, Carlos F., Mexico City, Mexico. Pneumatic apparatus for the manufacture of cemented shoes. 2,530,761, Nov. 21.

De Marchi, Vincent S., assignor, by mesne assignments, to Inland Steel Company, Chicago, Ill. Removing silica from iron. 2,530,391, Nov. 21.

Dennis, Wolcott, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Recovery of the constituents of gaseous mixtures. 2,530,602, Nov. 21.

Deschamps, Desire J., assignor to Deschamps Fuel Injection Corporation, Rutherford, N. J. Fuel injection pump. 2,531,202, Nov. 21.

Deschamps Fuel Injection Corporation, assignee: *See*—
Deschamps, Desire J.

Desmoulins, Emile H., Puteaux, France. Propelling mechanism. 2,531,032, Nov. 21.

Devaud, Albert J. assignee: *See*—
Jaccard, René P.

Devirian, Philip S., Jr., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Axle mounted power transmission and casing for drive wheels. 2,530,941, Nov. 21.

De Wiess, Ferdinand A.: *See*—
Tandler, William S., Walker, de Wiess, and Teller.

Diamond, Emanuel, Philadelphia, assignor of one-half to Clarence Frankford, Havertown, Pa. Fastener setting machine with depressible work-supporting member. 2,530,380, Nov. 21.

Dickinson, Ernest, Birmingham, assignor, by mesne assignments, to A. C. Wickman, Limited, Coventry, England. Lapping machine. 2,530,424, Nov. 21.

Diebold, Incorporated, assignee: *See*—
Miller, Karl H.

Diefenthaler, William, assignee: *See*—
Christina, John.

Diesel Power Inc., assignee: *See*—
Thabeld, Fred A.

Dietz, Waldemar, Little Neck, assignor to Beam Products, Inc., Long Island City, N. Y. Antitarnish composition. 2,531,114, Nov. 21.

Dihydrol Company, assignee: *See*—
Coldsnow, Van B.

Dill Manufacturing Company, The, assignee: *See*—
Boyer, Ralph K.

Dimmer, Robert P., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Mobile radiotelephone system having a single channel and a single frequency. 2,530,815, Nov. 21.

Di Paolo, Gerard R., North Arlington, and J. A. Anzovino, Elizabeth, assignors to Regal Tool & Mfg. Co., Inc. East Newark, N. J. Adjustable automotive upper control pin. 2,531,326, Nov. 21.

Ditto, Incorporated, assignee: *See*—
Gullikson, Harold R.

Divine Brothers Company, assignee: *See*—
Blair, James D., and Hendey.

Dixie Cup Company, assignee: *See*—
Mack, Wayne M.

Dixon, William B., Houston, Tex. Packer head concrete pipe machine. 2,530,687, Nov. 21.

Doak, Robert A., Schenectady, N. Y., assignor to General Electric Company. Temperature sensitive circuit breaker. 2,531,115, Nov. 21.

Donoghue, Harold, Brooklyn, N. Y. Rain operated automatic window closer. 2,531,116, Nov. 21.

Donohue, Bernard J., Jr., Stonehurst, Pa. Coupling for armored cable. 2,530,381, Nov. 21.

Dorgelo, Eduard G., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for very high frequencies comprising a lead-through conductor carrying high-frequency energy. 2,530,603, Nov. 21.

Dough-King, Inc., assignee: *See*—
Toews, Peter J.

Doutt, Kingsley A., Cortland, assignor to Federal Machine and Welder Company, Warren, Ohio. Control means. 2,531,032, Nov. 21.

Dow Chemical Company, The, assignee: *See*—
Pelton, Earl L., and Holzschuh.
Stober, Kenneth E., and Amos.

Downe, Edward R., assignor to The C. A. Olsen Manufacturing Company, Elyria, Ohio. Furnace burner mount. 2,531,261, Nov. 21.

Downs, Orville, Clayton, N. J. Heating water by electricity. 2,530,382, Nov. 21.

Dowty Equipment Limited, assignee: *See*—
Carey, Frederick H.

Doyle, Irving W., Massapequa, assignor to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Compound blade symmetrical opening camera shutter. 2,531,034, Nov. 21.

Drayer-Hanson, Incorporated, assignee: *See*—
Clancy, Gilbert E.

Drew, E. F. & Co., Inc., assignee: *See*—
Ackelsberg, Oscar J.
Moltens, Henry A.

Drewitt, James G. N., Spondon, near Derby, England, assignor to Celanese Corporation of America. Oxidation of aliphatic esters. 2,530,512, Nov. 21.

Drow, Donald F., Los Angeles, Calif., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature responsive safety valve for fuel burner systems. 2,530,942, Nov. 21.

Druey, Jean, Riehen, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Pyrimidylmercapto-carboxylic acids and derivatives thereof. 2,530,570, Nov. 21.

Drugan, Allan J., Columbus, Ohio. Apparatus for heating motor vehicle door keys. 2,530,513, Nov. 21.

Ducot, George B., Santa Ana, Calif. Cigarette holder. 2,530,688, Nov. 21.

Duffey, William A., Paterson, N. J. Hoist bracket. 2,530,452, Nov. 21.

Dufour, Maurice F.: *See*—
Hills, Robert C., and Dufour.

Duhnkrack, George H., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Intercommunicating telephone system. 2,530,943, Nov. 21.

Du Mais, Leo J.: *See*—
Heck, John T., Du Mais, and Talbot.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Huffman, Charles E.
Koch, Stanley J., and Rutherford.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Brubaker, Merlin M., and Jacobson.
Gray, Allen G.
Hare, Weston A.
Schaumann, Holger H.
Schmidt, Edgar H.
Sveda, Michael.

Dutra, Frank A.: *See*—
Carmer, Bertram H., Jr., and Dutra.

Dvornikoff, Michael N., assignor to Monsanto Chemical Company, St. Louis, Mo. Insecticidal compositions comprising heat-treated hexaethyl tetraphosphate. 2,531,354, Nov. 21.

Dyer, Bert D., Seattle, Wash. Tree holder. 2,531,117, Nov. 21.

Eagle, Manny, Brooklyn, N. Y. Apparel monogram attachment. 2,530,453, Nov. 21.

Easterday, Loris E., Fulton, Ind. Tip-up for ice fishing. 2,530,864, Nov. 21.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Articulated fairing. 2,530,571, Nov. 21.

Eberhardt, Herman, Fairlawn, assignor to Van Vlaanderen Machine Company, Paterson, N. J. Embossing machine drive. 2,530,425, Nov. 21.

Ebert, Ludwig, New York, N. Y., and R. Benchley, Jr., New Canaan, Conn., assignors to Einson-Freeman Co., Inc., Long Island City, N. Y. Collapsible cardboard display device. 2,530,950, Nov. 21.

Eckles, Jesse F., Porterville, Calif. Wheel support with power actuated clamping means. 2,530,572, Nov. 21.

Edgar, David, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for performing putting-out or analogous operations on hides or skins. 2,530,573, Nov. 21.

Edsall, Lou B.: *See*—
Kilander, Acton K., and Edsall.

Edwards & Company, Inc., assignee: *See*—
Slaker, Frank V.

Edwards, Russell N., Schenectady, N. Y., assignor to General Electric Company. Overvoltage protective apparatus. 2,531,118, Nov. 21.

Egger, Eduard J. W., Pittsburgh, and D. E. Lytle, Leetsdale, Pa., assignors to The Linde Air Products Company. Powder dispenser. 2,530,689, Nov. 21.

Ehrenstein, Maximilian R., assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa. 13 - monomethyl cyclopentanopolyhydrophenanthrenes and process. 2,530,816, Nov. 21.

Ehrenstein, Maximilian R., assignor to The Trustees of the University of Pennsylvania, Philadelphia, Pa. 13-monomethyl steroids. 2,530,817, Nov. 21.

Ehret, John, Jr.: *See*—
Buchwald, Charles E., and Ehret.

Einson-Freeman Co., Inc., assignee: *See*—
Ebert, Ludwig, and Benchley.

Eisenberg, Bernard C., Brooklyn, N. Y. Button shanking machine. 2,530,514, Nov. 21.

Electraulic Presses Limited, assignee: *See*—
Towler, John M., and F. Hathorn.

Electric and Musical Industries, Ltd., assignee: *See*—
Broadway, Leonard F.

Ellerbeck, Grant C., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Value selecting and entering mechanism. 2,530,515, Nov. 21.

Ellis, Robert, New York, N. Y. Flagpole. 2,530,654, Nov. 21.

Elmore, William C.: *See*—
Sands, Matthew L., Frisch, and Elmore.

Elwell, William E., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Production of vinyl xylenes. 2,531,327, Nov. 21.

Elwell, William E., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Producing indenes. 2,531,328, Nov. 21.

Emblen, Herbert V., and M. D. Baker, San Diego, Calif. Record filing means. 2,530,604, Nov. 21.

Emerson, Charles G., and L. R. Cook, Rowlesburg, W. Va. Change maker. 2,530,865, Nov. 21.

Emerson, William S., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Para-vinylbenzyl compounds. 2,531,355, Nov. 21.

Engelhaupt, Robert C., Bonesteel, S. Dak. Portable feeding trough. 2,531,262, Nov. 21.

Engle, Burr N. and J. B., Los Angeles, Calif. Teeth setting machine. 2,530,690, Nov. 21.

Engle, John B.: *See*—
Engle, Burr N. and J. B.

Enright, Paul M., assignor to Hydraulic Dredging Company, Ltd., Oakland, Calif. Obstruction clearing device for suction dredges. 2,530,951, Nov. 21.

Ensor, Arthur J., Bramley, Surrey, England. Drawing or sketching board. 2,530,605, Nov. 21.

Entwistle, James L., Co., assignee: *See*—
Entwistle, James L.

Entwistle, James L., Cranston, assignor to James L. Entwistle Co., Pawtucket, R. I. Machine for applying pressure sensitive tape to conductors. 2,530,655, Nov. 21.

Epstein, Sol, Los Angeles, Calif. Television antenna. 2,531,035, Nov. 21.

Essick Manufacturing Company, assignee: *See*—
Mulhollen, Harold S.

Estes, Nelson N., Austin, Tex., and L. Fleming, Falls Church, Va. Microphone testing device. 2,530,383, Nov. 21.

Ethyl Corporation, assignee: *See*—
Padgitt, Frank L.

Evans, John L., Sumter, and T. N. Busch, Georgetown, S. C. Transporation assembly. 2,530,866, Nov. 21.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Hydrocarbon conversion process. 2,531,356, Nov. 21.

Everel Propeller Corporation, assignee: *See*—
Hackethal, Paul F., and Karey.

Everitt, Ronald, Aurora, Ill. Automatic door. 2,531,119, Nov. 21.

Ex-Cell-O Corporation, assignee: *See*—
Mathys, Max A.
Sanford, Roy S.

Fafnir Bearing Company, The, assignee: *See*—
Searles, Raymond R.

Faggen, Leon I., Detroit, Mich. Armrest for vehicle use. 2,530,384, Nov. 21.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Doyle, Irving W.

Fall, John F., New Paltz, N. Y. Brush rake. 2,530,656, Nov. 21.

Farnham, Merle G., Calhoun Farms, Wis. Cheese modifying enzyme product. 2,531,329, Nov. 21.

Farrington, Marjorie R., Waukegan, Ill. Garment. 2,530,606, Nov. 21.

Feaster, Harry L., Artesia, Colo. Well-drilling apparatus. 2,531,120, Nov. 21.

Federal Auto Products Co., assignee: *See*—
Becker, Morris.

Federal Machine and Welder Company, assignee: *See*—
Doutt, Kingsley A.

Felt & Tarrant Manufacturing Company, assignee: *See*—
Turck, Joseph A.

Fessenden, Ace C., assignee: *See*—
Sanford, Roy S.

Fibreboard Products Inc., assignee: *See*—
Woods, Alfred E.

Fieser, Louis F., Belmont, Mass., and W. F. Van Loenen, Los Altos, Calif.; said Fieser assignor to the United States of America, and said Van Loenen, assignor to Kaiser Aluminum & Chemical Corporation. Pyrotechnic device. 2,531,454, Nov. 21.

Finch, William G. H., Newtown, Conn. High-speed facsimile synchronizing system. 2,530,516, Nov. 21.

Finigan, Andrew G., Berwyn, F. Bruchtel, Oak Lawn, and M. P. Blomberg, Hinsdale, Ill., assignors to General Motors Corporation, Detroit, Mich. Locomotive cab construction. 2,530,762, Nov. 21.

Fink, Frank W., and L. E. Morgan, assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Coacting door and movable stairway combination. 2,531,263, Nov. 21.

Fink, Jean, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Mechanical time fuse. 2,531,121, Nov. 21.

Fisch, Richard A., assignee: *See*—
Seckel, Peter H.

Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Frequency responsive protective arrangement for ultra high frequency systems. 2,531,122, Nov. 21.

Fleming, Lawrence: *See*—
Estes, Nelson N., and Fleming.

Flora, Lawrence H., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,531,264, Nov. 21.

Florence Stove Company, assignee: *See*—
Reeves, Herbert M.

Food Machinery and Chemical Corporation, assignee: *See*—
Devirian, Philip S., Jr.

Ford, Frank R., Birmingham, England. Moisture control device for duplicating machines. 2,530,426, Nov. 21.

Forss, Fritz V., assignor to John Oster Manufacturing Company, Racine, Wis. Mixing device. 2,530,455, Nov. 21.

Foster, James A.: *See*—
Lobley, Frederick A., and Foster.

Foulds, Neil M., assignor to Frantz Manufacturing Co., Sterling, Ill. Roller skate. 2,531,357, Nov. 21.

Fox, Arthur G., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 2,530,691, Nov. 21.

Fox, Arthur G., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable phase shifter for circularly polarized microwaves. 2,530,818, Nov. 21.

Fox, Benjamin, Philadelphia, Pa. Fluorescent lamp socket. 2,530,607, Nov. 21.

Fracchia, Rosie M., Ukiah, Calif. Collar for hanging flower pots. 2,530,456, Nov. 21.

Frankford, Clarence, assignee: *See*—
Diamond, Emanuel.

Frantz, Howard E., Jr.: *See*—
Snell, William E., Frantz, and Hignutt.

Frantz Manufacturing Co., assignee: *See*—
Foulds, Neil M.

Franzel, Richard M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic apparatus. 2,531,265, Nov. 21.

Fraser, William H., Reno, Nev. Safety holder for instruments. 2,530,608, Nov. 21.

Freed, Clarence T., Eldora, Iowa. Oil manifold warmer. 2,530,457, Nov. 21.

Fredrick, Arden H., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Stabilized frequency divider circuit. 2,530,427, Nov. 21.

Friden Calculating Machine Co., Inc., assignee: *See*—
Ellerbeck, Grant C.
Moody, John L.

Friedman, Arthur, Chicago, Ill. Rack for storing and transporting hook equipped clothes hangers. 2,530,609, Nov. 21.

Frisch, Hans R., Caterham, England. Production of complex inorganic compounds and application thereof. 2,530,458, Nov. 21.

Frisch, Otto R.: *See*—
Sands, Matthew L., Frisch, and Elmore.

Fry, Francis J., Champaign, Ill., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,530,952, Nov. 21.

Frye, Sanders A., Westerville, Ohio, assignor, by mesne assignments, to American Machine and Foundry Company, Brooklyn, N. Y. Bowling pin raising and lowering mechanism. 2,530,385, Nov. 21.

Fua, Frederic, assignor to X-Ray Electronic Corporation, New York, N. Y. X-ray testing and measuring method and apparatus. 2,530,517, Nov. 21.

Fuqua, Mack C., Baton Rouge, La., assignor to Standard Oil Development Company. Sulfuric acid recovery. 2,530,953, Nov. 21.

Gage, Robert M., Buffalo, N. Y., assignor to The Linde Air Products Company. Method of and apparatus for flame forming corundum styles. 2,530,692, Nov. 21.

Galangn, Charles, Maspeth, N. Y. Spreaders for circular saw wood cutting machines. 2,530,867, Nov. 21.

Galbreath, Robert R., Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone substation coupler for conversation recording. 2,531,203, Nov. 21.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Carriage tabulating means. 2,531,204, Nov. 21.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Constant factor means. 2,531,205, Nov. 21.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Multiplier entering means. 2,531,206, Nov. 21.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Registration and shift control means. 2,531,207, Nov. 21.

Gang, Herman, Livingston, assignor to Monroe Calculating Machine Company, Orange, N. J. Product transfer means. 2,531,208, Nov. 21.

Garceau, Lovett, Holliston, Mass. Recording device. 2,530,868, Nov. 21.

Garday, Louis J., Glenview, assignor, by mesne assignments, to L. G. Simmons, Chicago, Ill. Free piston engine fuel control. 2,531,331, Nov. 21.

Garday, Louis J., Glenview, assignor, by mesne assignments, to L. G. Simmons, Chicago, Ill. Fluid actuated injection means. 2,531,332, Nov. 21.

Garday, Louis J., Glenview, and R. A. Lasley, assignors, by mesne assignments, to L. G. Simmons, Chicago, Ill. Fluid actuated injection means. 2,531,330, Nov. 21.

Garrett Corporation, The, assignee: *See*—
Arthur, Robert A., and Kemper.
Chapman, James E.

Gearhart, Roy E., Kansas City, assignor to H. H. Twente, Independence, Mo. Screw gripping screw driver. 2,530,763, Nov. 21.

General Aniline & Film Corporation, assignee: *See*—
Runyan, Ivy V.
Slifkin, Sam C.

General Electric Company, assignee: *See*—
Anderson, Marshall.
Beckwith, Robert W.
Cisler, Marvin C.
Doak, Robert A.
Edwards, Russell N.
Fiske, Milan D.
Kurtz, Lowell M.
Lootens, William F.
McConnell, Andrew J.
McFarland, George L.
Murdick, Robert.
Pennell, William C.
Peters, Leo R.
Piercy, Carl A., and Kent.
Pifke, Edgar A.
Scheuermeyer, Emil.
Scott, Hoyt S.
Sprung, Murray M.
Stuart, Raymond H.
Stuart, Raymond H., and Ayres
Thompson, William E.
Van Nest, Francis H.
Weeks, Walter R.
Wilson, Wayne E.
Wurster, John H.
Yates, Charles G., Jr.

General Motors Corporation, assignee: *See*—
Alexander, Donald F.
Blomberg, Martin P.
Burkhardt, Thomas E.
Finigan, Abdrew G., Bruchtel, and Blomberg.
Lawson, John W., and Brown.
Picon, Josue R.

General Nailing Machine Corporation, assignee: *See*—
Paxton, Gerald C.

General Railway Signal Company, assignee: *See*—
Knapp, James W.

Genone, Louise P., San Diego, Calif. Dancing doll. 2,530,610, Nov. 21.

Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Electric iron. 2,530,657, Nov. 21.

Gerber, Heinz J., assignor to The Gerber Scientific Instrument Company, Hartford, Conn. Instrument for measuring, interpolating, and the like. 2,530,955, Nov. 21.

Gerber, Max: *See*—
Laubi, Otto, and Gerber.

Gerber Scientific Instrument Company, The, assignee: *See*—
Gerber, Heinz J.

Getman Brothers, assignee: *See*—
Getman, Heman E.

Getman, Heman E., assignor to Getman Brothers, South Haven, Mich. Material conveying and dumping vehicle. 2,530,574, Nov. 21.

Gevaert Photo-Producten N. V., assignee: *See*—
Van Dormael, André E.

Gibbons, James, Company, The, assignee: *See*—
Middlestadt, William F.

Gibney, Robert B., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrographic recording. 2,530,956, Nov. 21.

Gierl, Edward J., Athens, Wis. Teat cup. 2,531,266, Nov. 21.

Gilbert, Samuel, Cedar Grove, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine starter. 2,530,869, Nov. 21.

Gilbert, Stanley A., Red Bank, N. J., and A. H. Stanley, Lykens, Pa., assignors, by mesne assignments, to The Hanna Furnace Corporation, Detroit, Mich. Carbon supplying composition. 2,530,459, Nov. 21.

Gilbert, William, Richmond Hill, N. Y. Dehairing machine. 2,531,209, Nov. 21.

Gilman, George W., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time division system for modulated pulse transmission. 2,530,957, Nov. 21.

Gilron Products Company, assignee: *See*—
Orozco, Gilbert H., and Henricks.
Orozco, Gilbert H., and Roy.

Gilson, Joseph L., Hartsdale, N. Y. Food freezing apparatus. 2,531,210, Nov. 21.

Girard, Lloyd S., Quincy, Mass. Hook fastener. 2,530,518, Nov. 21.

Glass, Paul, assignor to Askania Regulator Company, Chicago, Ill. Electrical control circuit. 2,531,211, Nov. 21.

Gleasman, Hollis K., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Coaster brake. 2,530,764, Nov. 21.

Gloyer, Stewart W.: *See*—
Christenson, Roger M., and Gloyer.

Goertz, Raymond C., Hempstead, N. Y., assignor to The Sperry Corporation. Motor control circuit. 2,530,387, Nov. 21.

Goettsch, Walter J., Kenilworth, Ill., assignor to Samuel M. Langston Co. Apparatus for applying pattern forming material. 2,531,036, Nov. 21.

Gold, Richard L., Erdington, Birmingham, England. Wringer. 2,531,333, Nov. 21.

Goldberg, Simon: *See*—
Yardeny, Michel N., Bernas, and Goldberg.

Goldsmith, Florence, Rigo Park, N. Y. Full-lined inside out made necktie. 2,530,870, Nov. 21.

Goodrich, B. F., Company, The, assignee: *See*—
Bixby, Willard F.
Gregory, James T., and Jansen.
Hollis, Arthur L.
Hopperstead, Sever I.
Jansen, Jacob E., and Gregory.
Kehe, Henry J., and Shelley.
Krotz, Alvin S.
Semegen, Stephen T.
Stewart, William D., and Standen.

Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Eyeleting machine. 2,530,575, Nov. 21.

Gossling, Clement E., Winnipeg, Manitoba, Canada, assignor to Hudson's Bay Company, London, England. Linear actuator. 2,530,871, Nov. 21.

Gray, Allen G., Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrophoretic deposition of ethylene polymers. 2,530,366, Nov. 21.

Gray, John W., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Electrical indicator plotting board for loran navigation. 2,530,428, Nov. 21.

Green, Estill I., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Panoramic signal receiving system. 2,530,693, Nov. 21.

Greene, David H., Los Angeles, Calif., assignor to Danciger Oil & Refining Company, Fort Worth, Tex. Apparatus for heating fluids. 2,530,958, Nov. 21.

Greenhalgh, Robert K.: *See*—
Levy, Norman, and Greenhalgh.

Greenup, Roy T., Quilcene, assignor of one-half to H. S. Saari, Tacoma, Wash. Tent. 2,530,765, Nov. 21.

Gregory, Eli E., Lewisport, Ky. Spring winding device. 2,530,576, Nov. 21.

Gregory, James T.: *See*—
Jansen, Jacob E., and Gregory.

Gregory, James T., Cuyahoga Falls, and J. E. Jansen, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Esters of sulfur-containing polycarboxylic acids. 2,530,872, Nov. 21.

Grenat, John J., Detroit, Mich. Aligned bearing assembly. 2,531,334, Nov. 21.

Gretsch, Fred, Jr., Forest Hills, assignor to The Fred Gretsch Manufacturing Company, Brooklyn, N. Y. Musical comb. 2,531,212, Nov. 21.

Gretsch, Fred, Manufacturing Company, The, assignee: *See*—
Gretsch, Fred, Jr.

Gricar, John, St. Charles, Mich. Toy spring pistol. 2,530,658, Nov. 21.

Grissinger, Joseph F.: *See*—
Hershey, Abram E., and Grissinger.

Grotz, Anthony N., Chicago, Ill. Garden hose hodler. 2,530,873, Nov. 21.

Grundon, John L., Des Moines, Iowa. Friction clutch unit. 2,530,460, Nov. 21.

Guggenheim, Max M., assignor to National Equipment Corporation, New York, N. Y. Cooker. 2,530,519, Nov. 21.

Guise, Arthur B., and T. W. Johnson, assignors to Ansul Chemical Company, Marinette, Wis. Portable hand fire extinguisher. 2,531,123, Nov. 21.

Gulf Research & Development Company, assignee: *See*—
Gwynn, Bernard H., and Montgomery.
Humphrey, Earl L., and Mitchell.

Gullen, James J., assignor to Rochester Optical Manufacturing Co., Inc., Rochester, N.Y. Spectacle mounting. 2,530,959, Nov. 21.

Gullixson, Harold R., Arlington, Va., assignor, by mesne assignments, to Ditto, Incorporated, Chicago, Ill. Mo stening roller for duplicating machines. 2,530,388, Nov. 21.

Gund, Russell A., Tulsa, Okla., assignor to Phillips Petroleum Company. Safety switch. 2,530,461, Nov. 21.

Gurries, Albert G., assignor to Be-Ge Manufacturing Co., Gilroy, Calif. Front end implement supporting and adjusting mechanism. 2,530,577, Nov. 21.

Gutton, Henri, and J. J. Hugon, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Device for guiding and landing aircraft by means of decimetric radio waves. 2,530,694, Nov. 21.

Gwin, Walter S., Ogdensburg, N. Y. Shade roller. 2,530,462, Nov. 21.

Gwynn, Bernard H., Tarentum, and C. W. Montgomery, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Isomerization of normal pentane. 2,530,874, Nov. 21.

Gwynn, Bernard H. Tarentum, and C. W. Montgomery, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Isomerization of light naphtha. 2,530,875, Nov. 21.

Hackethal, Paul F., Cockeysville, and R. Karey, assignors to Everel Propeller Corporation, Baltimore, Md. Propeller hub. 2,530,520, Nov. 21.

Hagan Corporation, assignee: *See*—
Markson, Alfred A.

Hager, Bengt M.: *See*—
Clark, Floyd H., Hager, and Larson.

Hajek, William J., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Control for air conditioning systems. 2,531,037, Nov. 21.

Halderman, Clarence W., Ojai, Calif. Traveling block limit control. 2,530,786, Nov. 21.

Hall, Elisha W., Scituate, Mass. Traveling band abrading machine. 2,530,960, Nov. 21.

Hall, Frederick T., Bartlesville, Okla., assignor to Phillips Petroleum Company. Continuous sample collecting device. 2,530,463, Nov. 21.

Haller, Anthony F. *See*—
McGowan, Donald J., Haller, and Hebberd.

Haman, Maud E., Milwaukee, Wis. Sleeping bag for infants. 2,530,464, Nov. 21.

Hamill, Ret O., New Era, Mich. Mechanism for transferring a maximum demand indication from one indicator to another indicator when the former is restored to its initial position. 2,531,038, Nov. 21.

Hamill, William W., Little Aston, England. Gear-tooth rotary pump. 2,530,767, Nov. 21.

Hamlin, Bensen, Niagara Falls, N. Y., assignor to Jolene Corporation, Berea, Ohio. Saddle tank for motor vehicles. 2,530,819, Nov. 21.

Hance, Charles R., Durham, N. C., and G. H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company. Disproportionation of alkoxysilanes. 2,530,367, Nov. 21.

Hand, Leslie T., Brooklyn, assignor to Morsegraph Inc., New York, N. Y. Paper folding machine and method. 2,531,213, Nov. 21.

Hanes Hosiery Mills Company, assignee: *See*—
Miller, Eugene F.

Hanna Furnace Corporation, The, assignee: *See*—
Gilbert, Stanley A., and Stanley.

Hansen, Harry, Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stepping device. 2,530,961, Nov. 21.

Hansen, Odd A., Kenmore, N. Y., assignor to The Linde Air Products Company. System for dispensing measured quantities of liquefied gas. 2,530,521, Nov. 21.

Hardie, George C., Brooklyn, N. Y. Pipe and nut wrench provided with reversible jaw faces. 2,531,039, Nov. 21.

Harding, Cyril R. B., Grosse Isle, Mich., assignor to National Steel Corporation. Wall and wall panel. 2,530,465, Nov. 21.

Hardinge Brothers, Inc., assignee: *See*—
Daddona, Anthony J.

Hare, Weston A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Formation of shaped articles from acrylonitrile polymers. 2,530,962, Nov. 21.

Harmon, Walter S., Los Angeles, Calif., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Portable radio equipment. 2,531,215, Nov. 21.

Harnisch, Fritz, New Orleans, La. Hypodermic syringe operating device. 2,531,267, Nov. 21.

Harris, Cecil H., Albertville, Ala. Automobile tray. 2,530,876, Nov. 21.

Harris, Cleo, Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Magazine feed furnace. 2,530,522, Nov. 21.

Harris, Norman L., H. End, and J. W. Ryde, Northwood, England, assignors to M. O. Valve Company Limited. Electrical resonator. 2,531,214, Nov. 21.

Harrison, Wayne T.: *See*—
Reinhardt, Henry A., and Harrison.

Hart, Harry L.: *See*—
Bugg, Kenly C., and Hart.

Hart, Norman E., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale indicator. 2,531,124, Nov. 21.

Hart, Norman E., assignor to Toledo Scale Company, Toledo, Ohio. Pivot retainer. 2,531,125, Nov. 21.

Hartford National Bank and Trust Company, assignee, trustee: *See*—
Alma, Gerrit H. P., and van Eldik.
Blok, Lourens.
De Fremery, Frank.
De Graaff, Antonius.
Dorgelo, Eduard G.
Hepp, Gerard.
Hugenholtz, Eduard H.
Jonker, Johan L. H.
Knol, Kornelis S., and van der Ziel.
Kuperus, Jan, and Wiegerinck.
Scholten, Egbert.
Strutt, Maximiliaan J. O., and van der Ziel.
Tuk, Jacob M.
Van Alphen, Pieter M.
Van Loon, Carel J.
Veenemans, Cornelis F.
Wiegerinck, Hendrikus T. J., and van Wageningen.

Hartley, Eugene F., assignee: *See*—
Smith, Clarence C.

Harvey, Francis A., Bellevue, assignor to Pacific Marine Supply Company, Seattle, Wash. No-load speed governor. 2,531,335, Nov. 21.

Haver, Burton L., Kingston, N. Y. Adjusting or controlling device. 2,531,216, Nov. 21.

Hawkinson, Roy E., Bloomfield Hills, Mich. Dental forceps. 2,531,126, Nov. 21.

Hayes, Frank A.: *See*—
Turner, Edgar P., and Hayes.

Hazeltine Research, Inc., assignee: *See*—
Harmon, Walter S.

Hebberd, Loren L.: *See*—
McGowan, Donald J., Haller, and Hebberd.

Heck, John T., Elmhurst, L. J. Du Mais, and C. O. Talbot, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Portable screen stand. 2,530,877, Nov. 21.

Heck, John T., Elmhurst, L. J. Du Mais, and C. O. Talbot, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Operating handle and screen casing support for portable picture screens. 2,530,878, Nov. 21.

Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball retarding device for bowling alley runways. 2,530,429, Nov. 21.

Heimark, Clarence J., Clarkfield, Minn. Ensilage cutter. 2,530,466, Nov. 21.

Heinemann, Robert O., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Current collector of the pantograph type. 2,530,963, Nov. 21.

Helmert, Frits R. H., Odense, Denmark. Ski carrier and waist belt. 2,530,695, Nov. 21.

Helsten, Wesley A., assignor to American Steel Foundries, Chicago, Ill. Rotor type railway brake. 2,531,358, Nov. 21.

Heltzel, John N., Warren, Ohio. Sealed dowel bar and shielded bearing. 2,531,040, Nov. 21.

Henderson, Jesse E., Fort Worth, Tex. Walking doll. 2,530,696, Nov. 21.

Hendey, George A.: *See*—
Blair, James D., and Hendey.

Hendrickson, Lauri A., Waldoboro, Maine. Device for binding cables onto loads of material. 2,530,879, Nov. 21.

Henricks, John A.: *See*—
Orozco, Gilbert H., and Henricks.

Henry, Raymond, Moline, Ill. Pneumatic cotton harvester. 2,531,041, Nov. 21.

Henry, Raymond, Moline, Ill. Pneumatic cotton harvester. 2,531,042, Nov. 21.

Hepp, Gerard, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Reactance tube circuit arrangement. 2,530,611, Nov. 21.

Hermann, Augustus H., Melrose, assignor to Samuel Cabot, Inc., Boston, Mass. Control for cutting machines. 2,530,880, Nov. 21.

Herrington, Arthur W., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Power unit for vehicles. 2,531,268, Nov. 21.

Herrington, Arthur W., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Power unit arrangement for delivery trucks. 2,531,269, Nov. 21.

Hershey, Abram E., Paxtang, and J. F. Grissinger, Mechanicsburg, assignors to Hershey Creamery Company, Harrisburg, Pa. Extrusion nozzle for intrafold ice cream. 2,531,127, Nov. 21.

Hershey Creamery Company, assignee: *See*—
Hershey, Abram E., and Grissinger.

Hertz, Irving E., South Orange, N. J. Comb. 2,530,612, Nov. 21.

Herz, John H.: *See*—
Berkenkotter, Edward L., and Herz.

Hess, Howard V.: *See*—
Arnold, George B., and Hess.

Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Indicating apparatus for load compensating fluid pressure brake equipment. 2,531,043, Nov. 21.

Heyden Chemical Corporation, assignee: *See*—
Rigler, Neil E.

Hibbert, John W., Gateshead, A. T. Robertson, and C. Beveridge, Newcastle-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric motor. 2,531,044, Nov. 21.

Hickey, James, Portland, Oreg. Needle threader. 2,530,768, Nov. 21.

Higgins, Robert H., Southampton, N. Y. Inking device for typewriters. 2,530,697, Nov. 21.

Hignutt, Frank A.: *See*—
Snell, William E., Frantz, and Hignutt.

Hill, Thomas C., Parkville, assignor to The Glenn L. Martin Company, Middle River, Md. Aircraft booster control system. 2,530,659, Nov. 21.

Hills, Robert C., and M. F. Dufour, Nicaro, Cuba, assignors to Nicaro Nickel Company, New York, N. Y. Recovery of nickel and cobalt compounds. 2,531,336, Nov. 21.

Hipp, E. W., assignee: *See*—
Benedict, Fremont W.

Hirsch, Theodore, Detroit, Mich. Wrist band. 2,530,964, Nov. 21.

Hirt, Rudolf, Muri, near Berne, assignor to Dr. A. Wander A.-G., Berne, Switzerland. Manufacture of 4-aminobenzal-thiosemicarbazone. 2,530,430, Nov. 21.

Hittl, Anton E., Buffalo, N. Y., assignor to The Linde Air Products Company. Apparatus and method for filling gas storage cylinders. 2,530,523, Nov. 21.

Hlavin, William S., Cleveland, Ohio. Liquid treating device. 2,530,524, Nov. 21.

Hobbs, Frank, assignor to Research Holdings, Inc., Seattle, Wash. Laminating walls. 2,531,128, Nov. 21.

Hoefleur, Arthur V., assignor to Conveyor Systems, Inc., Chicago, Ill. Bearing. 2,530,660, Nov. 21.

Hoehn, John J., and A. G. Zimmerman, Indianapolis, Ind., assignors to Radio Corporation of America. Dual idler phonograph drive. 2,530,820, Nov. 21.

Hoehn, Vincent H., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Laminated tacking strip and frame. 2,531,271, Nov. 21.

Hoffman, Alfred H., Monroe, Mich. Sofa having angularly adjustable ends. 2,531,045, Nov. 21.

Hoffman, James A.: *See*—
Oldham, Samuel R., Jacobsson, and Hoffman.

Hogeberg, Bart A., Seattle, Wash. Golf ball teeing machine. 2,530,698, Nov. 21.

Hollingsworth, Clinton A., Lakeland, Fla., assignor to Coronet Phosphate Company, New York, N. Y. Defluorination of phosphate rock. 2,531,046, Nov. 21.

Hollis, Arthur L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Diphenyl amine derivatives. 2,530,769, Nov. 21.

Holsinger, Galen H., Quakertown, Pa. Chair cover. 2,531,047, Nov. 21.

Holzschuh, Andrew A.: *See*—
Pelton, Earl L., and Holzschuh.

Homer, Horace H.: *See*—
Lowry, Erwin F., and Homer.

Hood, Oscar H., Detroit, Mich., assignor to Huck Manufacturing Company. Blind rivet. 2,531,270, Nov. 21.

Hook, Edwin O., Old Greenwich, Conn., and P. H. Moss, Nederland, Tex., assignors to American Cyanamid Company, New York, N. Y. Mineral lubricating oil compositions containing dialkyldithiophosphoric acid-formaldehyde condensation products. 2,531,129, Nov. 21.

Hoover Company, The, assignee: *See*—
Gerber, Dale C.
Weiland, Edward A.

Hopper, Shirley D., Manteca, Calif. Side delivery truck tank. 2,530,613, Nov. 21.

Hopperstead, Sever L., Brighton, Mich., assignor to The B. F. Goodrich Company, New York, N. Y. Fungicidal composition. 2,530,770, Nov. 21.

Horbets, John O., Salt Lake City, Utah. Vaporizing type blast whirl oil burner. 2,531,272, Nov. 21.

Horn, William S., Fort Worth, Tex. Bedpan commode. 2,530,965, Nov. 21.

Hotop, Norbert C., Kalamazoo, Mich. Body for plumbers' trucks. 2,530,578, Nov. 21.

Hotpoint Inc., assignee: *See*—
Berg, Leo F., and McDowell.

Houdaille-Hershey Corporation, assignee: *See*—
Jandus, Herbert S.
Schatzman, George W.

Houston, Paul H., Fairmont, W. Va. Sun shield. 2,530,881, Nov. 21.

Howenstine, James A., assignor to Neon Products, Inc., Lima, Ohio. Sign structure. 2,530,525, Nov. 21.

Hubbell, Calvin G., Rankin, Ill., assignor to C. Howard Hunt Pen Co., Camden, N. J. Bulletin sheet holder and support. 2,530,821, Nov. 21.

Huber, Theodore A., Houston, Tex., assignor to Standard Oil Development Company. Well completion apparatus. 2,530,966, Nov. 21.

Huck, Louis C., assignor, by mesne assignments, to Huck Manufacturing Company, Detroit, Mich. Fastening device. 2,531,048, Nov. 21.

Huck, Louis C., Grosse Pointe, assignor to Huck Manufacturing Company, Detroit, Mich. Fastening device. 2,531,049, Nov. 21.

Huck Manufacturing Company, assignee: *See*—
Hood, Oscar H.
Huck, Louis C.

Hudson's Bay Company, assignee: *See*—
Gossling, Clement E.

Huffman, Charles E., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Color device for utilizing control signals. 2,530,431, Nov. 21.

Hugenholtz, Eduard H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Transmitter and receiver for single-sideband signals. 2,530,614, Nov. 21.

Hughes Tool Company, assignee: *See*—
Scott, Floyd L.

Hugon, Jean J.: *See*—
Guttin, Henri, and Hugon.

Humphrey, Earl L., and E. Mitchell, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Photochemical chlorination of hydrocarbons. 2,530,099, Nov. 21.

Hunt, C. Howard Pen Co., assignee: *See*—
Hubbell, Clavin G.

Hunt, William E., Brooklyn, Conn. Vibration dampening drive system for aircraft. 2,530,467, Nov. 21.

Hunter, Louise R., assignee: *See*—
Mace, Harry W.

Hurd, Edwin P.: *See*—
Barton, Alfred P., and Hurd.

Hutchinson, Oliver C. K., Aiton, Ill. Lifting mechanism. 2,530,771, Nov. 21.

Hutchinson, Willis S., St. Paul, Minn., assignor to Mathieson Chemical Corporation. Generation of chlorine dioxide. 2,530,468, Nov. 21.

Hutchison, Clyde A., Jr.: *See*—
Malm, John G., and Hutchison.

Hutter, Rudolf G. E., Flushing, N. Y., assignor to Sylvania Electric Products, Inc. Ion trap. 2,531,050, Nov. 21.

Hutto, Marsden C., Detroit, Mich. Honing method and apparatus. 2,530,615, Nov. 21.

Hydraulic Dredging Company, Ltd., assignee: *See*—
Enright, Paul M.

Hynson, Westcott & Dunning, Incorporated, assignee: *See*—
Bohls, Sidney W.

Ideal Seating Company, assignee: *See*—
Nordmark, Henry P.

Illinois Tool Works, assignee: *See*—
Anderson, William C.

Imowicz, Maurice, Paris, France. Detachable setting. 2,530,432, Nov. 21.

Imperial Chemical Industries Limited, assignee: *See*—
Levy, Norman, and Greenhalgh.

Industrial Rayon Corporation, assignee: *See*—
Burkholder, Alden H.

Inland Steel Company, assignee: *See*—
De Marchi, Vincent S.

International Nickel Company, Inc., The, assignee: *See*—
Sefing, Frederick G.

Jaccard, René P., assignor to A. J. Devaud, Geneva, Switzerland. Escapement device. 2,531,273, Nov. 21.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Cylinder lock operating connection. 2,530,469, Nov. 21.

Jacobson, Ralph A.: *See*—
Brubaker, Merlin M., and Jacobson.

Jacobsson, Wilgot J.: *See*—
Oldham, Samuel R., Jacobsson, and Hoffman.

Jacques, Jean: *See*—
Morris, Harry C., and Jacques.

Jaegle, William C., Plainview, assignor to Klingerit, Inc., New York, N. Y. Valve organization. 2,530,433, Nov. 21.

James Manufacturing Co., Inc., assignee: *See*—
De Cesaris, Frederick.

Jandus, Herbert S., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever structure. 2,531,130, Nov. 21.

Jansen, Jacob E.: *See*—
Gregory, James T., and Jansen.

Jansen, Jacob E., Akron, and J. T. Gregory, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vinyl resins plasticized with poly-(carbalkoxyalkylenethio) compounds. 2,530,882, Nov. 21.

Jeffers, Perry B., Philadelphia, Pa. Merchandise checking device. 2,531,051, Nov. 21.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jenkins, Cecil: *See*—
Woolsleyer, Homer J., Campbell, and Jenkins.

Jernstedt, George W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bright alloy plating. 2,530,967, Nov. 21.

Jewell, Howard W., W. G. Calder, and R. B. Stringfield, assignors to Joints, Inc., Los Angeles, Calif. Pressure pipe joint. 2,530,700, Nov. 21.

Johns-Manville Corporation, assignee: *See*—
Palumbo, Henry J.

Johnson, Agnar: *See*—
Atwood, Lyle C., and Johnson.

Johnson, Alfred: *See*—
Burness, Thomas P. N., and Johnson.

Johnson, Arnold L., Compton, E. G. Carlson, Long Beach, and F. E. Biasca, Martinez, assignors to Shell Development Company, San Francisco, Calif. Production of desulfurized gasoline. 2,530,701, Nov. 21.

Johnson, Arven, Kansas City, Mo. Safety check valve for hydraulic systems. 2,531,274, Nov. 21.

Johnson, Axel E. F., Lombard, assignor to American Hospital Supply Corporation, Evanston, Ill. Bucket holder. 2,531,131, Nov. 21.

Johnson, Carl E., St. Louis, Mich., and R. C. Waugh, Boulder, Colo., assignors to Standard Oil Company, Chicago, Ill. Phenolic condensation product. 2,530,772, Nov. 21.

Johnson, Charles D., assignor to Johnson Steel & Wire Company, Inc., Worcester, Mass. Apparatus for controlling the passage of wire through a sand pan. 2,531,132, Nov. 21.

Johnson, Effie B., executrix: *See*—
Johnson, Robert A.

Johnson, Fred W., San Diego, Calif. Power fish spear. 2,530,434, Nov. 21.

Johnson, Howard L., Los Angeles, Calif. Copyholder. 2,530,702, Nov. 21.

Johnson, James E., and C. R. Yirava, assignors to Benjamin Reel Products, Inc., Cleveland, Ohio. Reel. 2,530,773, Nov. 21.

Johnson, Kjarl R., Rockford, Ill. Vanity bench and mirror. 2,531,217, Nov. 21.

Johnson, Robert A., deceased, Longmeadow, Mass.; E. B. Johnson, executrix of said R. A. Johnson, assignor to Westfield Metal Products Co., Inc. Apparatus for making wrench nuts. 2,530,968, Nov. 21.

Johnson, Robert A., deceased, Longmeadow, Mass.; E. B. Johnson, executrix of said R. A. Johnson, assignor to Westfield Metal Products Co., Inc. Welding clamp. 2,530,969, Nov. 21.

Johnson Steel & Wire Company, Inc., assignee: *See*—
Johnson, Charles D.

Johnson, Theodore L., Kirkwood, Mo. Fluid pressure molding. 2,531,218, Nov. 21.

Johnson, Theodore W.: *See*—
Guise, Arthur B., and Johnson.

Johnson, Victor S., assignee: *See*—
White, Sidney Y.

Johnson, Victor S., Jr., administrator: *See*—
White, Sidney Y.

Johnston, Joseph B., Denver, Colo. Wallpaper pasting and trimming machine. 2,531,219, Nov. 21.

Joints, Inc., assignee: *See*—
Jewell, Howard W., Calder, and Stringfield.

Jolene Corporation, assignee: *See*—
Hamlin, Benson.

Jones, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Polymerizable unsaturated esters. 2,531,275, Nov. 21.

Jones, Robert H., Jr., Lubbock, Tex. Double-acting internal-combustion engine. 2,530,970, Nov. 21.

Jones, Roy W.: *See*—
Voss, John H., and Jones.

Jones, Victor J.: *See*—
Raney, Robert M., and Jones.

Jonker, Johan L. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube with secondary emission prevention means. 2,530,703, Nov. 21.

Jordan, James F., assignor to James Jordan Laboratory, Huntington Park, Calif. Purifying molten iron. 2,530,368, Nov. 21.

Jordan, James, Laboratory, assignee: *See*—
Jordan, James F.

K-D Manufacturing Company, assignee: *See*—
Kulp, Harry W.

Kahn, Leo M., Island Park, N. Y. Variable volume washer. 2,530,822, Nov. 21.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Fieser, Louis F., and V. Loenen.
Rawn, William L., Jr.
Van Loenen, William F.

Kaplan, Jack, Brooklyn, N. Y. Flash lamp. 2,531,220, Nov. 21.

Karey, Romuald: *See*—
Hackethal, Paul F., and Karey.

Katz, Leon: *See*—
Matland, Carl G., and Katz.

Kawneer Company, The, assignee: *See*—
Simpson, Arthur M.

Keall, Frank B.: *See*—
White, Percy, and Keall.

Kean, Clare H., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Acoustic well logging apparatus. 2,530,971, Nov. 21.

Kehe, Henry J., and T. H. Shelley, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. 2,2,4-trialkyl-1,2-dihydro-6-aralkyl-substituted quinolines and producing the same. 2,530,774, Nov. 21.

Kehoe, Thomas L., Fort William, Ontario, Canada. Surface mounted jar holder. 2,531,052, Nov. 21.

Kehrer, Edmond, La Chaux-de-Fonds, Switzerland. Fastening for bracelet-watch straps. 2,531,053, Nov. 21.

Keilholtz, Gerald W.: *See*—
Lowry, Erwin F., Mager, and Keilholtz.

Keko, Wilbur L., and J. L. Martin, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Purifying penicillin solutions. 2,530,883, Nov. 21.

Keller, James L., Ferndale, Mich. Baseball game apparatus. 2,530,526, Nov. 21.

Kelley, Cecil S., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Rotary inertia device. 2,531,054, Nov. 21.

Kemp, John H., Jr., San Carlos, Calif. Apparatus for handling loads. 2,530,704, Nov. 21.

Kemper, James M.: *See*—
Arthur, Robert A., and Kemper.

Kenly, Wilmer F., York, Pa. Spoon holder attachment for culinary vessels. 2,530,470, Nov. 21.

Kent, Robert S.: *See*—
Piercy, Carl A., and Kent.

Kent, Stanley B., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Delayed audible call signal for telephone substations. 2,531,221, Nov. 21.

Kenyon, Alonzo F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Load balancing system for dynamoelectric machines. 2,530,972, Oct. 21.

Kesling, Harold D., La Porte, Ind. Tooth positioning appliance. 2,531,222, Nov. 21.

Kilander, Acton K., Gibraltar, and L. B. Edsall, Wyandotte, assignors, by mesne assignments, to Trenton Chemical Company, Trenton, Mich. Method and apparatus for separating starch from gluten. 2,530,823, Nov. 21.

King, Kenneth L., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret carrier signaling method and system. 2,530,824, Nov. 21.

King, Kenneth L., Scarsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for synchronizing the supplying of demodulation carrier currents. 2,530,825, Nov. 21.

Kingsbury, Franklin L., Westfield, and F. J. Schultz, Fords, N. J., assignors to National Lead Company, New York, N. Y. Recovery of vanadium and chromium. 2,530,616, Nov. 21.

Kirk, Miles W., Berkeley, and H. O. Sherwood, Oakland, Calif., assignors, by mesne assignments, to Simplex Oil Heating Corporation, New York, N. Y. Spiral flame gas burner. 2,530,617, Nov. 21.

Kirk, Walter B., East McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake apparatus. 2,531,055, Nov. 21.

Kirkpatrick, Arlo A.: *See*—
Baney, Harry N., Slentz, Kirkpatrick, and Brickley.

Kirsch, William A., East McKeesport, and J. G. Wilhite, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Temperature measuring device. 2,530,973, Nov. 21.

Klein, Solomon, assignor to S. Simpson Limited, London, England. Waistband of trousers, shorts, skirts, and the like. 2,530,618, Nov. 21.

Klemperer, Hans, Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical control systems. 2,530,705, Nov. 21.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Liquid level indicating means. 2,530,619, Nov. 21.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,530,775, Nov. 21.

Klingel, Walter C., Basking Ridge, N. J. Killing weeds. 2,531,276, Nov. 21.

Klingerit, Inc., assignee: *See*—
Jaegle, William C.

Kloman, William C., Jr., Miami Beach, Fla. Mortar applicator. 2,531,133, Nov. 21.

Knapp, James W., Brockport, assignor to General Railway Signal Company, Rochester, N. Y. Polychrome beam light signal. 2,531,337, Nov. 21.

Kneubuehl, Herman J., Sterling, Ohio. Ventilation controlling device for chick boxes. 2,531,057, Nov. 21.

Knol, Kornelis S., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge device for the amplification of short waves. 2,531,277, Nov. 21.

Koch, Stanley J., Clifton, and R. E. Rutherford, Nutley, assignors to Allen B. Du Mont Laboratories, Inc., Passiac, N. J. Shielded ultra high frequency cathode-ray tube. 2,531,278, Nov. 21.

Kock, Winston E., Middletown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio relay system. 2,530,826, Nov. 21.

Koesten, Herman, New York, N. Y. Mechanical igniter. 2,531,056, Nov. 21.

Kopisch, Le Roy C., Hartford, Ill. Iron rest. 2,530,471, Nov. 21.

Koppers Company, Inc., assignee: *See*—
Stahly, Eldon E.

Körös, Ladislao, Buenos Aires, Argentina, assignor to Radio Corporation of America. Speech inverter. 2,530,579, Nov. 21.

Kotzebue, Meinhard H., Houston, Tex., assignor to Celanese Corporation of America. Chemical apparatus. 2,530,527, Nov. 21.

Kousens, Stanley L., San Diego, Calif. Needle holder. 2,530,620, Nov. 21.

Kovacs, Frank G., Caldwell, and F. A. Seidler, South Orange, N. J. Ice type water cooler with gasket insulated top. 2,531,223, Nov. 21.

Kralovic, Frank S., Parma, Ohio. Clothespin-receptacle suspension. 2,531,058, Nov. 21.

Kramer Trenton Company, assignee: *See*—
Nussbaum, Otto J.

Krapf, Herman C., and P. L. Vollmer, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Safety handle for controllers. 2,530,974, Nov. 21.

Kreer, John G., Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phase comparator for underwater signaling. 2,530,525, Nov. 21.

Kreuz, Kenneth L., Beacon, assignor to The Texas Company, New York, N. Y. Thiophenes from sulfur dioxide and hydrocarbons. 2,531,279, Nov. 21.

Kreus, Kenneth L., Beacon, assignor to The Texas Company, New York, N. Y. Alkylation of thiophene compounds. 2,531,280, Nov. 21.

Kropa, Edward L., Old Greenwich, and J. J. Padbury, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Dimethyl phthalate solution of acetyl peroxide as catalyst for trifluorochloroethylene polymerization. 2,531,134, Nov. 21.

Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Treating rubber springs. 2,531,059, Nov. 21.

Krueger, Albert A. F., New York, N. Y. Adapter for collapsible tube winding key for varying taper of key. 2,531,060, Nov. 21.

Kubatzky, Otto, St. Louis, Mo. Ventilated window. 2,531,281, Nov. 21.

Kulp, Harry W., Lancaster, Pa., assignor to K-D Manufacturing Company. Adjustable hacksaw frame. 2,531,135, Nov. 21.

Kuperus, Jan, and H. T. J. Wiegerinck, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Dual voltage power supply. 2,531,282 Nov. 21.

Kurtz, Lowell M., Erie, Pa., assignor to General Electric Company. Control arrangement for refrigerating systems. 2,531,136, Nov. 21.

L & S Manufacturing Co., assignee: *See*—
Shelley, Starr W.

Lafitte, Theodore: *See*—
Bruet, Henri R., and Lafitte.

Lakota, Stanley J., Pittsburgh, and T. E. Rudisells, Greensburg, Pa., assignors to Robertshaw-Fulton Controls Company. Electric igniter for gaseous fuel. 2,530,827, Nov. 21.

La Mar, Caleb H.: *See*—
Coleman, Ralph M., La Mar, and Robertson.

Landers, Frary & Clark, assignee: *See*—
Metz, Harry E.

Langdon, Samuel W., Rochester, N. Y., assignor, by mesne assignments, to Marks & Fuller, Inc. Photographic camera having means for feeding a plurality of film strips. 2,531,376, Nov. 21.

Lange, Harold T., Webster Groves, assignor to Sporlan Valve Company, St. Louis, Mo. Load limiting means for use with refrigeration and other valves. 2,530,706, Nov. 21.

Langsett, Victor M., assignee, trustee: *See*—
Smith, Lawrence H.

Langston, Samuel M., Co., assignee: *See*—
Goettsch, Walter J.

Laraque, Roland, assignor to L'Auxiliaire Industrielle, Paris, France. Internal-combustion engine with opposed pistons. 2,530,884, Nov. 21.

Larson, Oscar J.: *See*—
Clark, Floyd H., Hager, and Larson.

Lasley, Robert A.: *See*—
Garday, Louis J., and Lasley.

Latimer, James E., assignee: *See*—
Singletary, Marion D.

Laubi, Otto, and M. Gerber, Zurich, Switzerland. Preparation of sulfuric acid and sodium chloride from sodium sulfate solutions. 2,531,137, Nov. 21.

L'Auxiliaire Industrielle, assignee: *See*—
Laraque, Roland.

Lawson, John W., and W. E. Brown, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Electric switch. 2,531,377, Nov. 21.

Lebus, William A., assignor to The Protectoseal Company, Chicago, Ill. Switch heater. 2,530,473, Nov. 21.

Lee Arthur L., Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Tramming locomotive. 2,530,472, Nov. 21.

Leeds and Northrup Company, assignee: *See*—
Davis, Elwood T.

Lehde, Richard H., West Hartford, Conn. Timing apparatus. 2,531,138, Nov. 21.

Lemmon, Norman E.: *See*—
Bransky, David W., and Lemmon.

Lenehan, Bernard E.: *See*—
Young, Douglass A., Lenehan, and Bush.

Lenner, Sandro, Milan, Italy. Automatic machine for macaroni. 2,531,224, Nov. 21.

Leroy, Robert: *See*—
Pernle, Joseph, and Leroy.

Le Tang, Leo R., Cincinnati, Ohio. Censer. 2,530,529, Nov. 21.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Pivoted bolster for log haulers. 2,530,776, Nov. 21.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Two-speed power steering mechanism and switch control mounting therefor. 2,531,061, Nov. 21.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Voltage regulating system. 2,531,062, Nov. 21.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Rotor assembly. 2,531,225, Nov. 21.

Leverenz, Humboldt W., Princeton, N. J., assignor to Radio Corporation of America. Radar system for indicating moving objects. 2,530,828, Nov. 21.

Levesque, Charles L., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparation of thioncetamides. 2,531,288, Nov. 21.

Levin, Robert H., and A. V. McIntosh, Jr., assignors to The Upjohn Company, Kalamazoo, Mich. Adducts of bisnor-5,7,9(11)-cholatrien-22-al-3-one. 2,530,389, Nov. 21.

Levin, Robert H., and A. V. McIntosh, Jr., assignors to The Upjohn Company, Kalamazoo, Mich. Adducts of 22-aryl-bisnor-5,7,9(11)-cholatrien-22-ones. 2,530,390, Nov. 21.

Levy, Norman, and R. K. Greenhalgh, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of alcohols. 2,531,284, Nov. 21.

Lewis, Glenn E., Kansas City, Mo. Necktie scarf. 2,530,973, Nov. 21.

Libby-Owens-Ford Glass Company, assignee: *See*—
Jones, John L.

Licht, Anna, New York, N. Y. Lady's garment. 2,530,829, Nov. 21.

Licursi, Matthew, Norwalk, Conn. Buckle. 2,531,226, Nov. 21.

Lieber, Eugene, Chicago, Ill., and A. F. Cashman, Staten Island, N. Y., assignors to Standard Oil Development Company. Condensation of acyl polymers with aromatic hydrocarbons. 2,531,063, Nov. 21.

Liebmann, Alfred J.: *See*—
De Berze, George, and Liebmann.

Lighter, Stephen, Whitefish Bay, Wis. Folded shirt and collar protector. 2,530,883, Nov. 21.

Lillich, Ralph A., Houston, Tex. Perforating gun assembly. 2,530,707, Nov. 21.

Lilly, Russell M., Wink, and B. R. Schabarum, Midland, Tex. Heater with safety screen air inlet. 2,531,139, Nov. 21.

Linde Air Products Company, The, assignee: *See*—
Cook, Gerhard A.
Egger, Eduard J. W., and Lytle.
Gage, Robert M.
Hance, Charles R., and Wagner.
Hansen, Odd A.
Hittl, Anton E.
Oldham, Samuel R., Jacobsson, and Hoffman.

Linde, Leonard J., assignor to A. B. Chance Company, Centralia, Mo. Trailer vehicle for hot line tools. 2,531,140, Nov. 21.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Multichannel signaling system. 2,530,580, Nov. 21.

Lindsey, Richard H., Detroit, Mich. Device for cleaning fish. 2,531,064, Nov. 21.

Lingenbrink, Hermann E. F. C., Hilltown, assignor to Philco Corporation, Philadelphia, Pa. Record changer spindle. 2,530,435, Nov. 21.

Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Recovery of ethyl chloride. 2,530,661, Nov. 21.

Littlefield, Frank W., Lynn, Mass. Buffing and polishing wheel. 2,530,530, Nov. 21.

Livingood, John J., J. V. Peters, and R. A. Streeter, assignors to Collins Radio Company, Cedar Rapids, Iowa. Apparatus for changing the ion source of a cyclotron. 2,531,065, Nov. 21.

Lobley, Frederick A., and J. A. Foster, assignors to Miles Laboratories, Inc., Elkhart, Ind. Static neutralizer for tablet presses. 2,531,338, Nov. 21.

Loew, Theodore, Brooklyn, assignor to Trubenizing Process Corporation, New York, N. Y. Notching device. 2,530,830, Nov. 21.

Loewe, Jacques, Research Foundation, Inc., The, assignee: *See*—
Pitkin, George P.

Loewenthal, Sadie G. and W., Miami Beach, Fla. Building unit. 2,530,708, Nov. 21.

Loewenthal, William: *See*—
Loewenthal, Sadie G. and W.

Longren Aircraft Company, assignee: *See*—
Peterson, Albin, and Wentworth.

Lootens, William F., Syracuse, N. Y., assignor to General Electric Company. Demagnetization of electromagnetic recording heads. 2,531,141, Nov. 21.

Lopato, Harold, assignor to Majestic Shoulder Pad Corp., New York, N. Y. Shoulder pad. 2,530,392, Nov. 21.

Lopato, Harold, assignor to Majestic Shoulder Pad Corp., New York, N. Y. Shoulder pad. 2,530,393, Nov. 21.

Lorain Products Corporation, assignee: *See*—
Pohm, George H.

Lott, William A., Maplewood, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Alkylene-bridged 5,6-dihydroxyquinolines. 2,530,831, Nov. 21.

Louis, Ben F. assignee: *See*—
Wyatt, Frank A., and Slater.

Lowry, Erwin F., Lynn, E. L. Mager, Peabody, and G. W. Keilholtz, Lynn, assignors to Sylvania Electric Products, Inc., Salem, Mass. Electrode coating for discharge devices. 2,530,394, Nov. 21.

Lowry, Erwin F., Lynn, and H. H. Homer, Arlington, assignors to Sylvania Electric Products Inc., Salem, Mass. Preparing electron-emissive coating materials. 2,531,339, Nov. 21.

Lubins, Ross G., St. Paul, Minn. Shovel with auxiliary handle. 2,531,227, Nov. 21.

Lucia, Louis V.: *See*—
Reichold, Ludwig, and Lucia.

Lutes, Keene, Lexington, Ky. Chair construction. 2,530,474, Nov. 21.

Lybarger, Samuel F., Canonsburg, assignor to E. A. Myers & Sons, Mount Lebanon, Pa. Wearable hearing aid with inductive pick-up for telephone reception. 2,530,621, Nov. 21.

Lynch, John J., Metuchen, N. J. Spring-hinged two-part receptacle. 2,531,066, Nov. 21.

Lytle, David E.: *See*—
Egger, Eduard J. W., and Lytle.

M. O. Valve Company Limited, assignee: *See*—
Harris, Norman L., and Ryde.

Maass, Paul, Hollis, N. Y. Cushion heel. 2,530,395, Nov. 21.

Mace, Harry W., Glendale, assignor to S. O. Ronk and L. R. Hunter, Burbank, Calif. Activator solution for machineless hair-waving pads. 2,531,359, Nov. 21.

Macgeorge, William D., Drexel Hill, Pa., assignor to The Baldwin Locomotive Works. Torque measuring system. 2,531,228, Nov. 21.

Mack, Wayne M., assignor to Dixie Cup Company, Easton, Pa. Combined adjustable coupling and switch actuator. 2,530,709, Nov. 21.

Madison, Hunter W., Washington, D. C. Masking device. 2,531,142, Nov. 21.

Madlé, Alain H., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,530,475, Nov. 21.

Mager, Eric L.: *See*—
Lowry, Erwin F., Mager, and Keilholtz.

Maisel, Florence, Colts Neck, N. J. Steering means for manually propelled devices. 2,530,886, Nov. 21.

Majestic Shoulder Pad Corp., assignee: *See*—
Lopato, Harold.

Maleyre, Louis R., Bordeaux, France. Thermochemical method of branding blank steel bands or wires. 2,530,436, Nov. 21.

Malm, John G., and C. A. Hutchison, Jr., Chicago, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission. Purifying beryllium oxide. 2,531,143, Nov. 21.

Malsbary, Job F., assignor to Malsbary Manufacturing Company, Oakland, Calif. Blowdown method for a coil-type cleaning machine. 2,530,710, Nov. 21.

Malsbary Manufacturing Company, assignee: *See*—
Malsbary, Job F.

Mandl, Siegmund, Milwaukee, and E. M. Pfauser, Elm Grove, assignors to Blackhawk Mfg. Co., Milwaukee, Wis. Axially engaging positive clutch. 2,530,887, Nov. 21.

Manley, John H., Urbana, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Coincidence proportional counter. 2,531,144, Nov. 21.

Manspeaker, Edward L., Turtle Creek, Pa. Wrench with self-adjusting jaws. 2,531,285, Nov. 21.

Manufacture de Machines du Haut-Rhin, assignee: *See*—
Cuttat, Georges E.

Manufacturers Machine & Tool Co., Inc., assignee: *See*—
Boecking, Ewald.

Marchelewicz, Peter J., South Bend, Ind. Cap for grease fittings. 2,530,888, Nov. 21.

Marco, Salvatore M., and W. L. Davis, Columbus, assignors to Toledo Scale Company, Toledo, Ohio. Electrical resistance measurement. 2,531,145, Nov. 21.

Marconi, Joseph, assignee: *See*—
Thomas, William S.

Maris, James B., Glen Ridge, N. J., assignor to The Burdick Corporation, Milton, Wis. Adjustable automatic interval timer. 2,530,622, Nov. 21.

Markis, John L.: *See*—
Baxter, Harry, and Markis.

Markis, John L., Warrensville Heights, and H. Baxter, Garrettsville, Ohio. Control for zone heating systems. 2,530,581, Nov. 21.

Markoski, Joseph J.: *See*—
Brownlow, David B., and Markoski.

Marks & Fuller, Inc., assignee: *See*—
Langdon, Samuel W.

Marks, Robert A., Queens Village, N. Y. Writing guide for the blind. 2,530,437, Nov. 21.

Markson, Alfred A., Mount Lebanon, assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa. Measuring device. 2,530,711, Nov. 21.

Marmon-Herrington Company, Inc., assignee: *See*—
Herrington, Arthur W.

Marsh, Arnold, Woodtown Park, Rathfarnham, Eire. Glazing bar. 2,531,229, Nov. 21.

Martin, Arthur H., assignor to Canadian Industries Limited, Montreal, Quebec, Canada. Fertilizer block for fertilizing plant life in fishing waters. 2,531,360, Nov. 21.

Martin, George W., Eau Claire, Wis. Outboard motor starter. 2,530,623, Nov. 21.

Martin, Glenn L., Company, The, assignee: *See*—
Hill, Thomas C.

Martin, Gustav J.: *See*—
Alpert, Sidney, and Martin.

Martin, Homer Z., Roselle, N. J., assignor to Standard Oil Development Company. Fluidized hydrocarbon synthesis process. 2,530,977, Nov. 21.

Martin, Jerome L.: *See*—
Keko, Wilbur L., and Martin.

Martin, John E.: *See*—
Borg, Louis B., and Martin.

Martin, John R., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Chilling mixtures. 2,530,976, Nov. 21.

Martin, Lloyd M., San Francisco, Calif. Piano key. 2,530,712, Nov. 21.

Martin, Lloyd M., San Francisco, Calif. Key-frame for key-operated musical instruments. 2,530,832, Nov. 21.

Martin, Philip W., Huntington Park, assignor to McCullough Tool Company, Vernon, Calif. Gun perforator. 2,530,833, Nov. 21.

Martin, Philip W., Huntington Park, assignor to McCullough Tool Company, Vernon, Calif. Electrically fired perforating gun. 2,530,834, Nov. 21.

Martin, William O., assignor to William O. Martin, Inc., Fort Smith, Ark. Automatic valve control means. 2,531,286, Nov. 21.

Martin, William O., Inc., assignee: *See*—
Martin, William O.

Martinez, Donald S., Los Angeles, Calif. Hand-twirled fly-tying vise. 2,530,713, Nov. 21.

Mason, David M., Linden, N. J., assignor to Standard Oil Development Company. Isolation of xylene isomers. 2,530,978, Nov. 21.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric power source. 2,531,230, Nov. 21.

Massa, Frank, Cleveland Heights, Ohio. Phonograph needle. 2,531,067, Nov. 21.

Massey, Arthur H., Alhambra, and D. Q. Park, Los Angeles, Calif. Egg gathering basket. 2,530,889, Nov. 21.

Mathieson Chemical Corporation, assignee: *See*—
Hutchinson, Willis S.

Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic mechanism. 2,531,340, Nov. 21.

Matland, Carl G., New York, N. Y., and L. Katz, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio frequency control system. 2,530,979, Nov. 21.

Mattke, Charles F., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radar antenna driving mechanism. 2,530,890, Nov. 21.

Mattke, Charles F., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotary multicontact device. 2,530,891, Nov. 21.

Maust, Ernest J., Lakeland, Fla., assignor to Coronet Phosphate Company, New York, N. Y. Defluorinating phosphatic material. 2,531,068, Nov. 21.

Mayo, John C. C., Ashland, Ky. Picture hanger. 2,538,892, Nov. 21.

McCarty, Jackson T., Stockton, Calif. Child's swing. 2,531,069, Nov. 21.

McClellan, Clarence S., Santa Monica, Calif. Stereoscopic picture viewer. 2,530,531, Nov. 21.

McConnell, Andrew J., Delmar, N. Y., assignor to General Electric Company. System of polarizing relays. 2,531,146, Nov. 21.

McCullough Tool Company, assignee: *See*—
Bond, John A.
Martin, Philip W.
Tow, James O.

McDermott, Darwin D., San Jose, Calif. Baled hay loader. 2,531,070, Nov. 21.

McDougall, Stanley W., Kellogg, Idaho. Mucking machine for inclined mine shafts. 2,530,714, Nov. 21.

McDowell, Walter R.: *See*—
Berg, Leo F., and McDowell.

McElreath, Joe E., Ada, Okla. Insect exterminating device. 2,530,893, Nov. 21.

McFarland, George L., Scotia, N. Y., assignor to General Electric Company. Clamping device. 2,531,147, Nov. 21.

McGarvey, Harold J.: *See*—
Pifer, Marion J., Meyer, and McGarvey.

McGowan, Donald J., and A. F. Haller, Milwaukee, Wis., and L. L. Hebberd, assignors to The S. Obermayer Co., Chicago, Ill. Drying furnace. 2,531,148, Nov. 21.

McGuffin, Frank L., Inglewood, Calif. Apparatus for photographic reproduction by means of an electronic flash bulb. 2,530,396, Nov. 21.

McIntosh, A. Vern, Jr.: *See*—
Levin, Robert H., and McIntosh, Jr.

McKinzey, Reuben S., Lawton, Okla. Moist air filter. 2,531,071, Nov. 21.

McLemore, Price C., Montgomery, Ala. Flame cultivator. 2,530,894, Nov. 21.

Meador, Robert H., Jr., assignor to Wingfoot Corporation, Akron, Ohio. Friction mechanism with clearance adjuster. 2,531,341, Nov. 21.

Meisel, Murray A.: *See*—
Secofsky, Abraham, and Meisel.

Melchor, Howard T., Albuquerque, N. Mex. Floor tile cutting apparatus. 2,531,149, Nov. 21.

Mellor, Ralph V., San Francisco, Calif. Train and rail aligner. 2,530,895, Nov. 21.

Mellor, Bromley & Co. Limited, assignee: *See*—
Shortland, Arthur.

Mendenhall, Hallam E.: *See*—
Cheesman, Leonard E., and Mendenhall.

Mensman, Charles J., Washington, D. C. Mechanical movement. 2,530,715, Nov. 21.

Merchant, George A., River Forest, assignor to Safeway Mining Machine Corporation, Chicago, Ill. Apparatus for mining coal or similar mineral. 2,531,072, Nov. 21.

Merck & Co., Inc., assignee: *See*—
Pfister, Karl, III, and Tishler.
Wolf, Frank J.

Mergenthaler Linotype Company, assignee: *See*—
Turner, Ransom H.

Merrill, David R., Moorestown, N. J., and W. A. Perry, Bristol, assignors to Rohm & Haas Company, Philadelphia, Pa. Production of hydrogen cyanide. 2,531,287, Nov. 21.

Mershon, Clarence L., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for window heaters. 2,530,980, Nov. 21.

Merté, Willy W., deceased, Heidenheim/Brens, Germany; H. L. Beigel, ancillary administrator of said W. W. Merté. Anastigmatic lenses. 2,530,397, Nov. 21.

Metz, Christopher, Baldwin, N. Y. Magnetic disk for shuffleboard tables. 2,530,896, Nov. 21.

Metz, Harry E., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum cleaner. 2,531,342, Nov. 21.

Meyer, Alvin D.: *See*—
Pifer, Marion J., Meyer, and McGarvey.

Meynier, Jacques M. J. F., deceased, Lausanne, Switzerland; R. J. G. Meynier, sole heir of said J. M. J. F. Meynier. Carburetor. 2,530,716, Nov. 21.

Meynier, Rosine J. G., sole heir: *See*—
Meynier, Jacques M. J. F.

Middlestadt, William F., Baltimore, assignor to The James Gibbons Company, Relay, Md. Dispensing apparatus for plastic sealing compositions. 2,530,777, Nov. 21.

Mikina, Stanley J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control for ice-cream freezers. 2,530,981, Nov. 21.

Miles Laboratories, Inc., assignee: *See*—
Lobley, Frederick A., and Foster.

Miller Company, The, assignee: *See*—
Naysmith, Shirley R.

Miller, Eugene F., assignor to Hanes Hosiery Mills Company, Winston-Salem, N. C. Sinker control mechanism for circular knitting machines. 2,531,073, Nov. 21.

Miller, Gerald W., Oblong, Ill. Pneumatic massage. 2,531,074, Nov. 21.

Miller, Grant, Washington, D. C. Nonskid traction cleat. 2,530,897, Nov. 21.

Miller, Karl H., North Canton, assignor to Diebold, Incorporated, Canton, Ohio. Metal door frame construction. 2,531,075, Nov. 21.

Million, John W., Jr., Indianapolis, Ind., assignor to Radio Corporation of America. Variable permeability tuning device. 2,531,231, Nov. 21.

Miner, John D., Jr., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Direct-current generator. 2,530,982, Nov. 21.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Drow, Donald F.
Franzel, Richard M.
Kliever, Waldo H.
Wannamaker, William H., Jr.
Wild, Rudolf F.
Witts, Glenn H.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Waterman, Hebert.

Minter, Herbert F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Hydroxy ester anhydride copolymer. 2,530,983, Nov. 21.

Mishawaka Rubber and Woolen Manufacturing Company, assignee: *See*—
Hoehn, Vincent H.

Missiaen, Maurice F.: *See*—
Bateman, Norman S., and Missiaen.

Mistretta, Vincent F.: *See*—
Mottern, Henry O., and Mistretta.

Mitchell, Edward: *See*—
Humphrey, Earl L., and Mitchell.

Moberly, Lawrence E., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Impregnating carbon brushes. 2,530,984, Nov. 21.

Modrey, Henry J., Newark, N. J. Slide fastener lock. 2,530,438, Nov. 21.

Molteni, Henry A., Boonton, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y. Plasticized hydrophyllic colloids. 2,530,439, Nov. 21.

Monarch Manufacturing Works, Inc., The, assignee: *See*—
Carroll, James M.

Monroe Calculating Machine Company, assignee: *See*—
Gang, Herman.

Monsanto Chemical Company, assignee: *See*—
Dvornikoff, Michael N.
Emerson, William S.

Montgomery, Charles W.: *See*—
Gwynn, Bernard H., and Montgomery.

Montrowe-Ostier, Louis E. W., Brussels-Boitsfort, Belgium, assignor to Pollopas Patents Limited, London, England. Device for directly detecting, measuring, and utilizing for the purpose of control, variations in speed. 2,530,717, Nov. 21.

Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Motor frame. 2,530,532, Nov. 21.

Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Making electric motors. 2,530,533, Nov. 21.

Moore, Lee C., Corporation, assignee: *See*—
Campbell, Erwin A.
Woolslayer, Homer J., Campbell, and Jenkins.

Moore, Raymond P., Jr., West Collingswood, N. J., assignor to Radio Corporation of America. Bistable semiconductor multivibrator circuit. 2,531,076, Nov. 21.

Moore, Willard C., Dayton, Ohio. Extension drain. 2,531,288, Nov. 21.

Morgan Construction Company, assignee: *See*—
Morgan, Weld.

Morgan, La Verne E.: *See*—
Fink, Frank W., and Morgan.

Morgan, Weld, assignor to Morgan Construction Company, Worcester, Mass. Wire drawing block. 2,530,624, Nov. 21.

Morris, Harry C., and J. Jacques, Philadelphia, Pa. Key winder and casing for dispensing contents of collapsible tubes. 2,530,476, Nov. 21.

Morris Paper Mills, assignee: *See*—
Clarke, John D.

Morrison, David, Manitowoc, assignor to Paragon Electric Company, Two Rivers, Wis. Timer for automatically defrosting refrigerators. 2,530,985, Nov. 21.

Morrison, John, Franconia, N. H. Hammer toy. 2,530,898, Nov. 21.

Morrison, Willard L., Jr., assignor to West Bend Aluminum Co., West Bend, Wis. Pressure cooker and pressure regulator therefor. 2,530,534, Nov. 21.

Morsegraph Inc., assignee: *See*—
Hand, Leslie T.

Moses, Edmund Q., Scarborough, N. Y. Plaster of Paris containing paper and making. 2,530,986, Nov. 21.

Moss, Philip H.: *See*—
Hook, Edwin O., and Moss.

Mottern, Henry O., Hillside, and V. F. Mistretta, Fanwood, N. J., assignors to Standard Oil Development Company. Production of unsaturated aldehydes. 2,530,987, Nov. 21.

Moynahon Bronze Company, assignee: *See*—
Cudini, Roger G.

Mozal, William H., assignee and trustee: *See*—
Delegard, Carl J., and Nardulli.

Mueller Co., assignee: *See*—
Mueller, Frank H.

Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Locking device for valves and the like. 2,530,899, Nov. 21.

Muffly, Glenn: *See*—
Cahenzli, Martin T., Jr., and Muffly.

Mulhollen, Harold S., Pasadena, assignor to Essick Manufacturing Company, Los Angeles, Calif. Air humidifier and filter. 2,530,535, Nov. 21.

Muller, George J., Philadelphia, assignor to Taylor Fibre Co., Norristown, Pa. Making insulating covers for bus bars. 2,530,835, Nov. 21.

Mullin, Douglas E., Minneapolis, Minn. Pipe quartering device. 2,531,077, Nov. 21.

Mumford, William W., Atlantic Highlands, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Grounded grid microwave modulator. 2,530,836, Nov. 21.

Municipal Supply Company, assignee: *See*—
Paulson, Howard E.

Murat, Adolf, Laguna Beach, Calif. Trailer hitch. 2,531,289, Nov. 21.

Murdick, Robert, Schenectady, N. Y., assignor to General Electric Company. Direct current flat card resolver. 2,531,150, Nov. 21.

Myers, E. A., & Sons, assignee: *See*—
Lybarger, Samuel F.

Naples, Angelo F., assignee and trustee: *See*—
Delegard, Carl J., and Nardulli.

Napoli, John, Monterey, Calif. Hull form for speedboats. 2,530,718, Nov. 21.

Nardulli, Michael J.: *See*—
Delegard, Carl J., and Nardulli.

Nardulli, Peter F., assignee and trustee: *See*—
Delegard, Carl J., and Nardulli.

Narrow, Anton H., Memphis, Tenn. Strip casting machine. 2,531,290, Nov. 21.

National Biscuit Company, assignee: *See*—
Bloom, Richard A.

National Drug Company, The, assignee: *See*—
Alpert, Sidney, and Martin.

National Equipment Corporation, assignee: *See*—
Guggenheim, Max M.

National Lead Company, assignee: *See*—
Kingsbury, Franklin L., and Schultz.

National Steel Container Corporation, assignee: *See*—
Cerniak, Henry L.

National Steel Corporation, assignee: *See*—
Harding, Cyril R. B.
Shanon, Harold S.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Alvarez, Luis W.
Frederick, Arden H.
Gray, John W.

Naysmith, Shirley R., assignor to The Miller Company, Meriden, Conn. Fluorescent lighting fixture. 2,531,232, Nov. 21.

Neal, Mary L., Baton Rouge, La. Baby garment. 2,530,719, Nov. 21.

Nelson, Albert H., Jr., Wichita, Kans. Child's seat. 2,530,900, Nov. 21.

Neon Products, Inc., assignee: *See*—
Howenstine, James A.

Neuman, Norman, Montreal, Quebec, Canada. Electric light fixtures for tubular fluorescent lamps. 2,530,582, Nov. 21.

New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.

Newmark, Jack, Los Angeles, Calif. Hair waving device. 2,530,662, Nov. 21.

New Products Corporation, assignee: *See*—
Banker, Oscar H.

New York Air Brake Company, The, assignee: *See*—
Pickert, Lynn I.

Nicaro Nickel Company, assignee: *See*—
Hills, Robert C., and Dufour.

Nichols, Edgar B., Moorestown, N. J. Multiple holder writing instrument and making same. 2,530,901, Nov. 21.

Nickell, W. T., assignee: *See*—
Tackett, John O.

Nilsen, Bernt, Barranquilla, Colombia. Piston for fountain pens. 2,531,078, Nov. 21.

Nilsson, Carl A., assignee: *See*—
Riggs, George S.

Nixon Nitration Works, assignee: *See*—
Bonham, William H.

Noranda Mines, Limited, assignee: *See*—
Renken, Howard C.

Nordberg Manufacturing Company, assignee: *See*—
Protzeller, Harry W.
Talboys, Henry H.

Nordmark, Henry P., assignor to Ideal Seating Company, Grand Rapids, Mich. Retractable theater chair. 2,530,625, Nov. 21.

North American Research Corporation, assignee: *See*—
Thomas, Charles C.

Nurkiewicz, Ignatius, Brooklyn, N. Y. Fire extinguisher. 2,530,583, Nov. 21.

Nussbaum, Otto J., assignor to Kramer Trenton Company, Trenton, N. J. Defrosting system for refrigerating apparatus. 2,530,440, Nov. 21.

Obermayer, S., Co., The, assignee: *See*—
McGowan, Donald J., Haller, and Hebberd.

O'Brien, William J., assignor to The Decca Record Company, Limited, London, England. Receiving apparatus for radio-frequency navigation systems. 2,530,902, Nov. 21.

O'Brien, William J., London, England. Navigation system. 2,530,903, Nov. 21.

Ofeldt, August W., Hackensack, assignor to Bendix Aviation Corporation, Teterboro, N. J. Clutch control. 2,530,904, Nov. 21.

Oldham, Samuel R., West Orange, W. J. Jacobsson, Plainfield, and J. A. Hoffman, Roselle, N. J., assignors to The Linde Air Products Company. Mask relief valve for oxygen breathing systems. 2,530,536, Nov. 21.

Oliver Corporation, The, assignee: *See*—
Daniels, Lee C.

Olsen, C. A., Manufacturing Company, The, assignee: *See*—
Downe, Edward R.

Olson, Carl A., Bellevue, Nebr. Battery connector. 2,531,291, Nov. 21.

Olson, Grace B., assignee: *See*—
Biggs, Henry L.

Orozco, Gilbert H., Euclid, and J. A. Henricks, Lakewood, assignors to Glidon Products Company, Cleveland, Ohio. Lubricant composition composed of high-titre soap, borax, and an inorganic compound. 2,530,837, Nov. 21.

Orozco, Gilbert H., Euclid, and R. F. Roy, assignors to Glidon Products Company, Cleveland, Ohio. Wire, rod, and sheet metal drawing lubricant of synthetic wax, borate, and organic binder. 2,530,838, Nov. 21.

Ortusi, Antoine J., and M. Ponte, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Aircraft altimeter, particularly applicable to low altitudes. 2,530,905, Nov. 21.

Oster, John, Manufacturing Company, assignee: *See*—
Forss, Fritz V.

Östmar, Frans Eric Ossian, Finspong, Sweden. Balancing the axial thrust of elastic fluid compressors and turbines of the axial flow type. 2,530,477, Nov. 21.

Otis Elevator Company, assignee: *See*—
Paulson, Arthur W.

Otto, Edward H., Detroit, Mich. Bake oven for baking various food products. 2,530,778, Nov. 21.

Owbridge, Herbert H., Burbank, Calif. Pattern sprinkler. 2,530,779, Nov. 21.

Owens, Annie L., Fort Worth, Tex. Belt-forming device. 2,530,988, Nov. 21.

Pacific Can Company, assignee: *See*—
Bourland, Eli.

Pacific Marine Supply Company, assignee: *See*—
Harvey, Francis A.

Pack, Herschel G., Bakersfield, Calif. Thermoelectric generator. 2,530,907, Nov. 21.

Padbury, John J.: *See*—
Kropa, Edward L., and Padbury.

Padgitt, Frank L., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Recovery of chlorinated hydrocarbons. 2,531,361, Nov. 21.

Page, Clarence, assignor to Page and Cox, Detroit, Mich. Egg re-arranging and feeding device. 2,531,292, Nov. 21.

Page and Cox, assignee: *See*—
Page, Clarence.

Palumbo, Henry J., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Sheet packing and manufacture. 2,530,906, Nov. 21.

Paragon Electric Company, assignee: *See*—
Morrison, David.

Parent, William J., Salem, Mass. Nursing bottle holder. 2,530,478, Nov. 21.

Park, Donald Q.: *See*—
Massey, Arthur H., and Park.

Parker, Paul T., Baton Rouge, La., assignor to Standard Oil Development Company. Synthesis of oxygenated organic compounds. 2,530,989, Nov. 21.

Parry, Frank, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating device for sewing machine loop takers. 2,531,362, Nov. 21.

Pate, Sherman E., assignor to Permo, Incorporated, Chicago, Ill. Container and applicator for small articles. 2,531,152, Nov. 21.

Pater, Herman, Waltham, and F. Bruckmeier, Austin, Minn. Matched edge lawn mower grinder. 2,530,479, Nov. 21.

Patt, Conrad J., Chicago, Ill. Bracket type support for clothes hangers. 2,531,151, Nov. 21.

Patterson, William J., La Grange, assignor to Swift & Company, Chicago, Ill. Manufacture of dried egg material. 2,531,343, Nov. 21.

Paulsen, Henry M., Seattle, Wash. Coat hanger. 2,531,293, Nov. 21.

Paulson, Arthur Willard, Summit, N. J., assignor to Otis Elevator Company, New York, N. Y. Generator control system. 2,530,398, Nov. 21.

Paulson, Howard E., assignor to Municipal Supply Company, South Bend, Ind. Hydraulic vehicle drive with individual motors for multiple driven parts. 2,530,720, Nov. 21.

Paxton, Gerald C., assignor to General Nailing Machine Corporation, Sanger, Calif. Nailing chuck actuating mechanism. 2,530,626, Nov. 21.

Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Cooled and lubricated rotary seal. 2,531,079, Nov. 21.

Payne, John W.: *See*—
Simpson, Thomas P., Payne, and Crowley, Jr.

Pelton, Earl L., and A. A. Holzschuh, assignors to The Dow Chemical Company, Midland, Mich. Making dialkyl acetic acids and related compounds. 2,531,363, Nov. 21.

Pennell, William C., Saugus, Mass., assignor to General Electric Company. Traffic signal control system. 2,531,153, Nov. 21.

Perkins Machine and Gear Company, assignee: *See*—
Deloghia, Louis E.

Perlman, Samuel D., Washington, D. C. Heater or stove. 2,530,721, Nov. 21.

Permo, Incorporated, assignee: *See*—
Pate, Sherman E.

Pernic, Joseph, and R. Leroy, assignors to Compagnie Generale d'Electricite, Paris, France. Apparatus for the measurement of the index number of telegraph signals. 2,530,839, Nov. 21.

Perry, William A.: *See*—
Merrill, David R., and Perry.

Persinger, William G., Burbank, Calif. Shoe support. 2,530,537, Nov. 21.

Peters, John V.: *See*—
Livingood, John J., Peters, and Streeter.

Peters, Leo R., Cleveland Heights, Ohio, assignor to General Electric Company. Electric discharge device. 2,530,990, Nov. 21.

Peterson, Albin K., and H. Wentworth, Redondo Beach, assignors to Longren Aircraft Company, Torrance, Calif. Chair tray. 2,531,080, Nov. 21.

Peterson, Russell G., and G. R. Brieger, assignors to Balfour-Guthrie & Company Limited, Tacoma, Wash. Protein base glues. 2,530,780, Nov. 21.

Petrie, Eugene C., Elmhurst, and J. Trofil, Berwyn, assignors to Crane Co., Chicago, Ill. Automatic valve actuating control system. 2,530,722, Nov. 21.

Pettit, John H., Bronx, N. Y. Vertically adjustable table. 2,531,233, Nov. 21.

Pfauser, Edward M.: *See*—
Mandl, Siegmund, and Pfauser.

Pfister, Karl, III, and M. Tishler, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Production of N-acyl allothreonine esters. 2,530,627, Nov. 21.

Philco Corporation, assignee: *See*—
Lingenbrink, Hermann E. F. C.

Phillips, Chandler A., San Mateo County, assignor to Shell Development Company, San Francisco, Calif. Card cabinet. 2,530,781, Nov. 21.

Phillips, Freeman J., McKeesport, Pa., assignor to Carnegie-Illinois Steel Corporation. Producing stainless steel immune to intercrystalline corrosion. 2,531,154, Nov. 21.

Phillips, Freeman J., McKeesport, Pa., assignor to Carnegie-Illinois Steel Corporation. Stainless steel. 2,531,155, Nov. 21.

Phillips Petroleum Company, assignee: *See*—
Gund, Russell A.
Hall, Frederick T.
Pickell, Thomas D.
Ray, Gardner C.
Robinson, Sam P., and Bearer.
Simons, Joseph H.
Wicklatz, John E.

Philos, Nicolas C.: *See*—
Christofilos, Nicolas C.

Photocheck Company, assignee: *See*—
Crone, William T.

Pickell, Thomas D., Kansas City, Mo., assignor to Phillips Petroleum Company. Hydrocarbon conversion. 2,531,294, Nov. 21.

Pickert, Lynn I., Watertown, N. Y., assignor to The New York Air Brake Company, Air brake. 2,530,723, Nov. 21.

Picon, Josue R., assignor to General Motors Corporation, Detroit, Mich. Limit stop for parallelogram mechanisms. 2,530,782, Nov. 21.

Piercy, Carl A., Balston Lake, and R. S. Kent, Schenectady, N. Y., assignors to General Electric Company. Insulating hollow core conductors. 2,531,156, Nov. 21.

Pierson, Ernest, Eureka, Calif. Sashless window. 2,530,724, Nov. 21.

Pierson, Paul R.: *See*—
West, Charles P., Rugg, and Pierson.

Pifer, Marion J., Williamsville, A. D. Meyer, Kenmore, and H. J. McGarvey, assignors to Colonial Radio Corporation, Buffalo, N. Y. Tuning mechanism. 2,530,663, Nov. 21.

Pifke, Edgar A., Philadelphia, Pa., assignor to General Electric Company. Reciprocal dual circuit breaker double interlock mechanism. 2,531,157, Nov. 21.

Pilgrim, Joseph A., Elberta, Ala. Stump eliminator. 2,530,399, Nov. 21.

Pitkin, George P., deceased, by W. M. Pitkin, administratrix, Bergenfield, N. J., assignor, by mesne assignments, of one-half to The Jacques Loewe Research Foundation, Inc., New York, N. Y. Therapeutic preparations for intramuscular and subcutaneous injection and making the same. 2,530,480, Nov. 21.

Pitkin, Winifred M., administratrix: *See*—
Pitkin, George P.

Pitney-Bowes, Inc., assignee: *See*—
Russell, Alva G.

Pittsburgh Plate Glass Company, assignee: *See*—
Christenson, Roger M., and Gloyer.

Pivero, Frank T., San Diego, Calif. Automatic door locking device. 2,530,628, Nov. 21.

Pizer, Robert S., Washington, D. C. Radiant energy control system for aircraft. 2,530,725, Nov. 21.

Poarch, Clifford C., assignee: *See*—
Chrastina, John.

Pogany, John W., Port Townsend, Wash. Opening oysters. 2,530,783, Nov. 21.

Pohm, George H., Lorain, Ohio, assignor to Lorain Products Corporation. Electric control circuit. 2,530,784, Nov. 21.

Polad, Thomas H., assignor to Rudy Furnace Company, Dowagiac, Mich. Air feeding and cooled furnace front structure. 2,531,344, Nov. 21.

Pollopas Patents Limited, assignee: *See*—
Montrose-Oster, Louis E. W.

Ponte, Maurice: *See*—
Ortuzl, Antoine J., and Ponte.

Pontius, Frank E., Los Angeles, Calif., assignor to Radio Corporation of America. Multiple magnetic head mount. 2,530,584, Nov. 21.

Post, George B., Great Neck, N. Y. Hoisting and launching means for boats. 2,530,840, Nov. 21.

Pringle, Edward S., Norfolk, Va., assignor to The J. G. Wilson Corporation, New York, N. Y. Door operating mechanism. 2,530,629, Nov. 21.

Protectoseal Company, The, assignee: *See*—
Lebus, William A.

Protzeller, Harry W., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Take-off mechanism. 2,530,589, Nov. 21.

Pye, Carl F., Winnipeg, Manitoba, Canada. Boat bailer. 2,530,664, Nov. 21.

Rack, Alois J., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vernier pulse code communication system. 2,530,538, Nov. 21.

Radio Corporation of America, assignee: *See*—
Blaney, Dorothy L.
Darling, Woodrow.
Hoehn, John J., and Zimmerman.
Körös, Ladislao.
Leverenz, Humboldt W.
Lindenblad, Nils E.
Million, John W., Jr.
Moore, Raymond P., Jr.
Pontius, Frank E.
Ruggieri, Ernest P.

Rado, Leopold, Whitehaven, England. Production of containers filled with liquids or pastes. 2,530,400. Nov. 21.

Randall, Thomas H., Jr.: *See*—
Albert, Edward V., Randall, and Barber.

Raney, Robert M., Euclid, and V. J. Jones assignors to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 2,530,539, Nov. 21.

Rasmussen, Oswald E., Greenberg, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cable stranding machine. 2,530,726, Nov. 21.

Rawn, William L., Jr., Palo Alto, Calif., assignor to Kaiser Aluminum & Chemical Corporation. Milk crate. 2,530,481, Nov. 21.

Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Semiautomatic sole-edge inking machine. 2,530,585, Nov. 21.

Ray, Gardner C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of cyclopentene. 2,530,727, Nov. 21.

Ray, James L., Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine diaphragm. 2,530,908, Nov. 21.

Raytheon Manufacturing Company, assignee: *See*—
Klemperer, Hans.
Rich, Stanley R.

Razdowitz, Adolph: *See*—
Yardeny, Michel N., and Razdowitz.

Ream, John E., Portsmouth, Ohio. Safety top for baby beds. 2,530,728, Nov. 21.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Gas cookstove burner grate. 2,530,991, Nov. 21.

Regal Tool & Mfg. Co., Inc., assignee: *See*—
Di Paolo, Gerard R., and Ansovino.

Reichold, Ludwig, Simsbury, and L. V. Lucia, West Hartford, assignors to The Silex Company, Hartford, Conn. Swiveled iron cord protector. 2,530,540, Nov. 21.

Reinhardt, Henry A., and W. T. Harrison, Longmeadow, Mass., assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Leather substitute. 2,530,441, Nov. 21.

Reitz, Archie E., Los Angeles, Calif. Animated display device. 2,530,729, Nov. 21.

Renken, Howard C., Columbus, Ohio, assignor, by mesne assignments, to Noranda Mines, Limited, Toronto, Ontario, Canada. Recovering sulfur from pyrite. 2,530,630, Nov. 21.

Research Holdings, Inc., assignee: *See*—
Hobbs, Frank.

Reyrolle, A., & Company, Limited, assignee: *See*—
Hibbert, John W., Robertson, and Beveridge.

Rich, Stanley R., Newton Center, Mass., assignor to Raytheon Manufacturing Company. Time interval measuring device. 2,530,631, Nov. 21.

Richter, Thomas H., Los Angeles, Calif. Dispensing container. 2,530,730, Nov. 21.

Rickard, Gail B., Molalla, Oreg. Telltale electric tube and combination thereof. 2,531,345, Nov. 21.

Riesz, Kolman: *See*—
Chapman, James F., and Riesz.

Riggs, George S., assignor of one-third to C. A. Nisson and one-third to S. C. Riggs, Salinas, Calif. Mechanical pipette. 2,530,909, Nov. 21.

Riggs, Samuel C., assignee: *See*—
Riggs, George S.

Rigler, Nell E., Glen Rock, N. J., assignor to Heyden Chemical Corporation, New York, N. Y. Trialkylamine salts of penicillin and the purification of penicillin. 2,530,488, Nov. 21.

Ritchie, George D., Evansville, Ind. Vehicle registration card and service tally holder. 2,531,295, Nov. 21.

Robertshaw-Fulton Controls Company, assignee: *See*—
Hajek, William J.
Lakota, Stanley J., and Rudiselle.

Robertson, Alexander T.: *See*—
Hibbert, John W., Robertson, and Beveridge.

Robertson, Hazard N.: *See*—
Coleman, Ralph M., La Mar, and Robertson.

Robinson, Bruce E., assignor to Toledo Scale Company, Toledo, Ohio. Meat chopping device with worm-gear driving means. 2,531,158, Nov. 21.

Robinson, Sam P., and L. C. Bearer, Bartlesville, Okla., assignors to Phillips Petroleum Company. Pebble heating chamber. 2,530,731, Nov. 21.

Robrecht, Charles J., Short Hills, and C. W. Smith, Plainfield, N. J., assignors to Standard Oil Development Company. Reducing foam in acid concentrators. 2,530,954, Nov. 21.

Rocca, Leo J., Washington, D. C. Folding desk and seat. 2,530,785, Nov. 21.

Rochester Optical Manufacturing Co., Inc., assignee: *See*—
Gullen, James J.

Rodanet, Charles H. H., Neuilly-sur-Seine, France, assignor to Societe Anonyme: Jaeger Aviation. Electrical device for repeating or transmitting angular displacements. 2,530,992, Nov. 21.

Rodoliakis, Jean and Jerome, Paris, France. Tight joint for pistons. 2,531,296, Nov. 21.

Rodoliakis, Jerome: *See*—
Rodoliakis, Jean and Jerome.

Rogers, Frank J.: *See*—
Tobin, Max, and Rogers.

Rohm & Haas Company, assignee: *See*—
Levesque, Charles L.
Merrill, David R., and Perry.

Roman, Walter G., Williamsville, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control system for direct-current motors. 2,530,993, Nov. 21.

Roman, Walter G., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control system for dynamoelectric machinery. 2,530,994, Nov. 21.

Ronk, Samuel O., assignee: *See*—
Mace, Harry W.

Ronning, Jacob A., Minneapolis, Minn. Sickle bar mower. 2,530,732, Nov. 21.

Ronning, Jacob A., Minneapolis, Minn. Mowing machine. 2,530,733, Nov. 21.

Rose, Andrew G., assignor to Jervis B. Webb Company. Chain drive. 2,530,786, Nov. 21.

Rose, John J., McMechen, W. Va. Planting implement. 2,531,297, Nov. 21.

Roseman, Leo, Newark, N. J. Device for indicating variations in thread tension in sewing machines. 2,530,841, Nov. 21.

Roth, Walter L., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave meter. 2,530,541, Nov. 21.

Rothe, Ernest E.: *See*—
Rothe, Walter and E. E.

Rothe, Walter and E. E., New York, N. Y. Foot-operated device for flushing toilets. 2,530,482, Nov. 21.

Rothstein, Jerome, Belmar, N. J. Pulse-echo system utilizing an electron buncher tube. 2,530,401, Nov. 21.

Rouat, Roger, Paris, France. Electric bath. 2,530,442, Nov. 21.

Rowell, William G., Wollaston, Mass. System for burner cutoff and signaling means upon tank leakage. 2,531,159, Nov. 21.

Roy, Richard F.: *See*—
Orozco, Gilbert H., and Roy.

Rubel, Charles F.: *See*—
Christensen, Norman V., and Rubel.

Rucker, Arthur, Chicago, Ill. Comb support and flame shield. 2,531,298, Nov. 21.

Rudiselle, Theodore E.: *See*—
Lakota, Stanley J., and Rudiselle.

Rudy Furnace Company, assignee: *See*—
Polad, Thomas H.

Rugg, Harold H.: *See*—
West, Charles P., Rugg, and Pierson.

Ruggieri, Ernest P., North Arlington, N. J., assignor to Radio Corporation of America. Manufacture of metal to metal duplications. 2,530,842, Nov. 21.

Rumpf, Rupert L., Jr., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Oscillator tank circuit configuration. 2,530,995, Nov. 21.

Runyan, Ivy V., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Mixtures of polyvinyl ethers with phenolacetylene resins. 2,531,364, Nov. 21.

Russell, Alva G., assignor to Pitney-Bowes, Inc., Stamford, Conn. Differential actuating mechanism. 2,530,996, Nov. 21.

Russell Manufacturing Company, The, assignee: *See*—
Brownlow, David B., and Markeski.

Russenberger, Max, assignor to Alfred J. Amsler & Co., Schaffhausen, Switzerland. Hydraulic testing machine for the pulsatory testing of test specimens. 2,530,483, Nov. 21

Rutherford, Harry T., Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich. Crankshaft grinder. 2,531,160, Nov. 21.

Rutherford, Harry T., Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich. Crankshaft grinder. 2,531,161, Nov. 21.

Rutherford, Harry T., Baltimore, Md., assignor to Vickers, Incorporated, Detroit, Mich. Crankshaft grinder. 2,531,163, Nov. 21.

Rutherford, Herbert E., Paterson, N. J. Battery connector. 2,531,162, Nov. 21.

Rutherford, Robert E.: *See*—
Koch, Stanley J., and Rutherford.

Ryde, John W.: *See*—
Harris, Norman L., and Ryde.

Saari, H. Sanford, assignee: *See*—
Greenup, Roy T.

Safeway Mining Machine Corporation, assignee: *See*—
Merchant, George A.

St. Thomas Inc., assignee: *See*—
St. Thomas, William H.

St. Thomas, William H., Gloversville, N. Y., assignor to St. Thomas Inc. Combined purse and billfold. 2,531,306, Nov. 21.

Salzman, Ralph I., San Pedro, Calif. Film developing tank with rotatable film carrier. 2,530,734, Nov. 21.

Sands, Matthew L., Oxford, Mass., O. R. Frisch, Liverpool, England, and W. C. Elmore, Swarthmore, Pa.: said M. L. Sands and W. C. Elmore assignors to the United States of America as represented by the United States Atomic Energy Commission. Pulse amplifier. 2,531,164, Nov. 21.

Sanford, Roy S., Oakville, Conn., assignor, by mesne assignments, of one-half to Ex-Cello-O Corporation, Detroit, Mich., and one-half to A. C. Fessenden and Ace Carton Corporation, Chicago, Ill. Paper container. 2,530,787, Nov. 21.

Sanicom Company, Inc., assignee: *See*—
Arvintz, Abraham A., Arvins, and R. A. Arvintz.

Sawyer, Lester T., Leominster, Mass. Holder for combs. 2,530,542, Nov. 21.

Sawyer, Lester T., Leominster, Mass. Apparatus for making hair retainers. 2,531,299, Nov. 21.

Schabarum, Bruno R.: *See*—
Lilly, Russell M., and Schabarum.

Schaelchlin, Walter, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Starting control system for synchronous motors. 2,530,997, Nov. 21.

Scharmann, Walter G., Westfield, N. J., assignor to Standard Oil Development Company. Synthesis of hydrocarbons. 2,530,998, Nov. 21.

Schatzman, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield. 2,530,402, Nov. 21.

Schaumann, Holger H., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of titanium halides. 2,530,735, Nov. 21.

Schenley Industries, Inc., assignee: *See*—
De Becze, George, and Liebmann.

Scherstuhl, Sydney M., St. Louis, Mo. Foldable rack. 2,530,632, Nov. 21.

Scheuermeyer, Emil, Upper Darby, Pa., assignor to General Electric Company. Electric switch. 2,531,165, Nov. 21.

Schloer, Henry C.: *See*—
Thomas, William S.

Schloer, Henry C., Greene, N. Y. Dispensing container. 2,531,300, Nov. 21.

Schmidt, Edgar H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Machine for making composite structures. 2,530,484, Nov. 21.

Schnabel, Fred C., Hopkins, Minn. Cake container and server. 2,530,910, Nov. 21.

Schneeman, William A., Webster Groves, Mo. Latch structure for merchandise receptacles. 2,530,543, Nov. 21.

Scholten, Egbert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement for frequency controls. 2,531,301, Nov. 21.

Schols, Edward R., assignor to American-La France-Foamite Corporation, Elmira, N. Y. Pyrotechnic-operated fire extinguisher. 2,530,633, Nov. 21.

Schrameck, Jack E.: *See*—
Baker, Benjamin P., and Schrameck.

Schuchert, Oakey, Iowa City, Iowa. Builder's hoist. 2,531,346, Nov. 21.

Schuessler, Levyn R., University City, Mo. Pad of paper sheets. 2,530,634, Nov. 21.

Schuler, Harold A., Woodside, N. Y. Bottle cap. 2,530,999, Nov. 21.

Schultz, Frank J.: *See*—
Kingsbury, Franklin L., and Schultz.

Schultz, Martin A., Deshler, Nebr. Adjustable cap for water fountains. 2,530,911, Nov. 21.

Schumm, Louis W.: *See*—
Thornton, Kirby F., and Schumm.

Schwantes, Otto R., Milwaukee, Wis. Walking chair for invalids. 2,530,544, Nov. 21.

Schweizerische Lokomotiv-und Maschinenfabrik, assignee: *See*—
Waldvogel, Jakob.

Schwennicke, Franz, Brussels, Belgium. Interchangeable frame structure for suitcases. 2,531,302, Nov. 21.

Scott, Elmer S., Dallas, Tex. Weighing apparatus. 2,531,303, Nov. 21.

Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Pipe stabbing device. 2,530,788, Nov. 21.

Scott, Hoyt S., Cleveland, Ohio, assignor to General Electric Company. Erythemal meter. 2,531,000, Nov. 21.

Scott, John W., Jr.: *See*—
Cope, John Q., and Scott.

Seaman, Stewart E., White Plains, N. Y. Continuous xanthation. 2,530,403, Nov. 21.

Seares, Richard U., Pasadena, Calif. Animated sign. 2,530,404, Nov. 21.

Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 2,530,665, Nov. 21.

Seckel, Peter H., assignor to R. A. Fisch, New York, N. Y. Longitudinally separable extruded thermoplastic strip and producing same. 2,531,234, Nov. 21.

Secofsky, Abraham, New York, and M. A. Meisel, Brooklyn, N. Y. Combined floodlight holder and camera support. 2,530,912, Nov. 21.

Seeburg, J. P., Corporation, assignee: *See*—
Andrews, Edward F.
Voigtritter, Max H.

Seewald, Louis, Amarillo, Tex. Cleaning implement. 2,531,304, Nov. 21.

Sefing, Frederick G., Cranford, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Hardenable cast iron. 2,530,545, Nov. 21.

Segool, Howard D.: *See*—
De Benneville, Peter L., and Segool.

Selberling Latex Products Co., assignee: *See*—
Blesh, Raymond T.

Seidler, Frederic A.: *See*—
Kovacs, Frank G., and Seidler.

Selas Corporation of America, assignee: *See*—
Blaha, Emil.

Semegen, Stephen T., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,530,789, Nov. 21.

Shackel, Joseph T., Detroit, Mich. Flashlight lamp socket holder assembly. 2,530,913, Nov. 21.

Shannon, Harold S., Detroit, Mich., assignor to National Steel Corporation. Animal house. 2,530,485, Nov. 21.

Sharp & Dohme, Incorporated, assignee: *See*—
Sprague, James M.

Shaw, Charles M., Albany, assignor to California Research Corporation, San Francisco, Calif. Detergent concentrate. 2,531,166, Nov. 21.

Sheldon, Lloyd E., Saguache, Colo. Child's feeding tray. 2,530,736, Nov. 21.

Shell Development Company, assignee: *See*—
Johnson, Arnold L., Carlson, and Biasca.
Phillips, Chandler A.

Shelley, Starr W., assignor to L & S Manufacturing Co., Charlotte, N. C. Moving comb type cotton harvester. 2,530,405, Nov. 21.

Shelley, Thomas H.: *See*—
Kehe, Henry J., and Shelley.

Sherwin, Frank, and A. A. Benson, Washington, D. C. Shoe molded to shape of foot. 2,530,737, Nov. 21.

Sherwood, Harry O.: *See*—
Kirk, Miles W., and Sherwood.

Shippey, Melvin W., Tabor, Iowa. Power mower grass raiser. 2,531,081, Nov. 21.

Short, Joseph V., East Orange, N. J., assignor to Standard-Vacuum Oil Company. Airplane fuel servicing unit. 2,531,001, Nov. 21.

Shortland, Arthur, assignor to Mellor Bromley & Co. Limited, Leicester, England. Knitting machine. 2,530,790, Nov. 21.

Sicotte, Sidney J., Hibbing, Minn. Fish landing grip. 2,531,235, Nov. 21.

Sidebotham, John B., Philadelphia, Pa. Belting fabric and process. 2,531,082, Nov. 21.

Sigel, Carl A., assignor to Chicago Forging and Manufacturing Company, Chicago, Ill. Vehicle ventilator operator. 2,530,666, Nov. 21.

Silex Company, The, assignee: *See*—
Reichold, Ludwig, and Lucia.

Simmons, Jesse W., Lewiston, Maine. Screw-eye wrench. 2,530,914, Nov. 21.

Simmons, Louis G., assignee: *See*—
Garday, Louis J.

Simons, Joseph H., State College, Pa., assignor to Phillips Petroleum Company. Oxidation of aromatic compounds. 2,530,369, Nov. 21.

Simplex Oil Heating Corporation, assignee: *See*—
Kirk, Miles W., and Sherwood.

Simpson, Arthur M., assignor to The Kawneer Company, Niles, Mich. Bowling alley pin and ball separating and conveying mechanism. 2,531,167, Nov. 21.

Simpson, Herbert S., assignee, trustee: *See*—
Christensen, Alfred C.

Simpson, S., Limited, assignee: *See*—
Klein, Solomon.

Simpson, Thomas P., and J. W. Payne, Woodbury, N. J., and J. A. Crowley, Jr., New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. System for conducting conversions in the presence of a contact mass. 2,531,365, Nov. 21.

Sinclair Refining Company, assignee: *See*—
Watson, Kenneth M.

Singer Manufacturing Company, The, assignee: *See*—
Parry, Frank.
Turner, Edgar P., and Hayes.

Singletary, Marion D., assignor of twenty per cent to J. E. Latimer, Bishopville, S. C. Salt shaker. 2,530,406, Nov. 21.

Sisk, Carl M. and M. W., Matamoras, Pa. Display device. 2,531,002, Nov. 21.

Sisk, Mildred W.: *See*—
Sisk, Carl M. and M. W.

Skinner, Bronson C., Dunedin, Fla. Apparatus for cooking solids in liquids. 2,531,378, Nov. 21.

Slaker, Frank V., assignor to Edwards & Company, Inc., Norwalk, Conn. Cable clamping device. 2,531,003, Nov. 21.

Slater, Charles F.: *See*—
Wyatt, Frank A., and Slater.

Slattery, Thomas P., assignee: *See*—
Conradson, Prentice H.

Slentz, Louis A. C.: *See*—
Baney, Harry N., Slentz, Kirkpatrick, and Brickley.

Slifkin, Sam C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Acetonitriles as azo components in diazotypes. 2,531,004, Nov. 21.

Smith, Alonzo L., Houston, Tex. Core analysis. 2,531,083, Nov. 21.

Smith, Arthur R., Binghamton, England. Hopper vertically adjustable for sealing contact with cover. 2,531,305, Nov. 21.

Smith, Belmont D., Eaton, Ohio. Venting plug for welding rods. 2,531,005, Nov. 21.

Smith, Charles W.: *See*—
Robrecht, Charles J., and Smith.

Smith, Clarence C., Flushing, N. Y., assignor of one-half to E. F. Hartley, Onancock, Va. Photographic enlarger. 2,530,843, Nov. 21.

Smith, Edwin C.: *See*—
Collins, Laurence H., and Smith.

Smith, Elmer H., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn. Tip for cutting blowtorches. 2,531,006, Nov. 21.

Smith, Howard L., Rochester, N. Y. Painter's scaffold hanger. 2,530,791, Nov. 21.

Smith, John J., Springfield, Mass., assignor to Chicopee Manufacturing Corporation. Pressure roll for forming bonded fiber webs. 2,530,407, Nov. 21.

Smith, Lawrence H., assignor to V. M. Langsett, Chicago, Ill., as trustee. Portable fog type fire extinguisher. 2,531,366, Nov. 21.

Smith, Roger R., Gardner, Mass. Constructing high chair trays. 2,530,667, Nov. 21.

Smith, Starr W., Flint, Mich. Anchor winch. 2,530,586, Nov. 21.

Smith Welding Equipment Corporation, assignee: *See*—
Smith, Elmer H.

Snell, William E., Vineland, and H. E. Frantz, Jr., and F. A. Hignutt, Millville, N. J.; said Frantz, Jr., and said Hignutt assignors to said Snell. Token-actuated mechanism. 2,531,236, Nov. 21.

Snyder, Hanson G., Newtown Square, Pa. Bowling alley. 2,531,168, Nov. 21.

Snyder, Jacob R., Cleveland, Ohio. Safety rail fastening. 2,530,547, Nov. 21.

Snyder, James M., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrophoretic deposition of insulating coating. 2,530,548, Nov. 21.

Societe Anonyme: Jaeger Aviation, assignee: *See*—
Rodanet, Charles H. H.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Charpentier, Paul.

Societe Francaise Radio-Electrique, assignee: *See*—
Villem, Raymond.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bergstrom, Eric V.
Evans, Louis P.
Simpson, Thomas P., and Payne and Crowley.

Sommer, Philip L., Fort Lauderdale, Fla. Dehumidifier for vending machines. 2,531,084, Nov. 21.

Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Battery charging apparatus. 2,530,587, Nov. 21.

Sowa, Frank J., Cranford, N. J. Siliceous sheet material coated with plasticized organosilicon condensate. 2,530,635, Nov. 21.

Spectro Manufacturing & Sales, Inc., assignee: *See*—
Tonn, Howard H.

Speidel Corporation, assignee: *See*—
Augustein, Karl C.

Sperry Corporation, The, assignee: *See*—
Goertz, Raymond C.

Spessard, Clayton I., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Coating metal surfaces. 2,530,738, Nov. 21.

Sporlan Valve Company, assignee: *See*—
Lange, Harold T.

Sprague, James M., Drexel Hill, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. N-(substituted sulfonyl)-aminobenzoic acids. 2,531,367, Nov. 21.

Spraying Systems Co., assignee: *See*—
Wahlin, Fred W.

Sprung, Murray M., Scotia, N. Y., assignor to General Electric Company. Making insulated electrical conductors. 2,531,169, Nov. 21.

Squibb, E. R., & Sons, assignee: *See*—
Lott, William A.

Stacey, Joseph M., Boston, Mass. Tube socket with terminal board skirt. 2,531,085, Nov. 21.

Stahly, Eldon E., assignor to Koppers Company, Inc., Pittsburgh, Pa. Dithiocyanates. 2,530,408, Nov. 21.

Stamper, Hamilton A., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Stylus holder. 2,530,739, Nov. 21.

Standard Oil Company, assignee: *See*—
Bransky, David W., and Lemmon.
Johnson, Carl E., and Waugh.

Standard Oil Development Company, assignee: *See*—
Craft, William S.
Fuqua, Mack C.
Huber, Theodore A.
Kean, Clare H.
Lieber, Eugene, and Cashman.
Martin, Homer Z.
Martin, John R.
Mason, David M.
Mottern, Henry O., and Mistretta.
Parker, Paul T.
Robrecht, Charles J., and Smith.
Scharmann, Walter G.
Thompson, Robert R.

Standard-Vacuum Oil Company, assignee: *See*—
Short, Joseph V.

Standen, John H.: *See*—
Stewart, William D., and Standen.

Stanley, Alfred H.: *See*—
Gilbert, Stanley A., and Stanley.

Stanley, Zina R., Monterey Park, assignor to Zinsco Electrical Products, Los Angeles, Calif. Electrical panel board switch. 2,530,548, Nov. 21.

Staples, Otis E., Euclid, assignor to The Cleveland Hobbing Machine Company, Cleveland, Ohio. Manufacturing cutters. 2,530,549, Nov. 21.

Staples, Otis E., assignor to The Cleveland Hobbing Machine Company, Euclid, Ohio. Cutter. 2,530,550, Nov. 21.

Stec, Joseph, Chicago, Ill. Rotary impact wrench device. 2,530,915, Nov. 21.

Steinberg, Alexander, New York, N. Y. Device for processing yogurt. 2,531,237, Nov. 21.

Steinmetz, Alwood H., Watertown, S. Dak. Forced flow portable air heater for mounting upon the exterior walls of rooms to be heated. 2,530,486, Nov. 21.

Stephenson, Alford H.: *See*—
Stephenson, Orley R. and A. H.

Stephenson, Beth N., sole heir: *See*—
Stephenson, Orley R. and A. H.

Stephenson, Orley R., and A. H. Stephenson, deceased, Oakland, Calif.; B. N. Stephenson, sole heir of said A. H. Stephenson, assignor to said O. R. Stephenson. Compressor. 2,530,551, Nov. 21.

Sterling Drug Inc., assignee: *See*—
Surrey, Alexander R.

Stevenson, Earl D.: *See*—
Davis, Claude E., and Stevenson.

Stewart, Leize R., New York, N. Y. Photographically printing on materials. 2,531,086, Nov. 21.

Stewart, William D., and J. H. Standen, Yonkers, assignors to The B. F. Goodrich Company, New York, N. Y. Textile materials made mildew resistant with di-(4-hydroxychlorophenyl) dimethyl methane. 2,530,792, Nov. 21.

Stober, Kenneth E., and J. L. Amos, assignors to The Dow Chemical Company, Midland, Mich. Polymerizing styrene. 2,530,409, Nov. 21.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Sidering method for positioning strip material. 2,530,552, Nov. 21.

Stokes, F. J., Machine Company, assignee: *See*—
Bailey, Lawrence H.

Stratton, James C., Raton, N. Mex. Mud cleaning apparatus. 2,530,916, Nov. 21.

Streeter, Royal A.: *See*—
Livingood, John J., Peters, and Streeter.

Stringfield, Raymond B.: *See*—
Jewell, Howard W., Calder, and Stringfield.

Strobell, John D., New Haven, Conn. Chain-driven ratchet wrench. 2,530,553, Nov. 21.

Strom, Albert P., and L. J. Berberich, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburg, Pa. Circuit interrupter embodying polytetrafluoroethylene. 2,531,007, Nov. 21.

Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Push-pull high-frequency amplifying apparatus. 2,530,636, Nov. 21.

Stuart, Raymond H., Cleveland, Ohio, assignor to General Electric Company. Sealing-in method and apparatus. 2,531,008, Nov. 21.

Stuart, Raymond H., and R. J. Avres, Cleveland, Ohio, assignors to General Electric Company. Tube end brushing apparatus. 2,531,009, Nov. 21.

Surrey, Alexander R., Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. 9-[2-(2-hydroxyethylamino)ethylamino] acridine and its production. 2,531,010, Nov. 21.

Surrey, Alexander R., Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. 3-chloro-9-[2-(2-hydroxyethylamino)-ethylamino] acidine and its production. 2,531,011, Nov. 21.

Surrey, Alexander R., Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. 9-[2-(2-hydroxyethylamino)-ethylamino]-2-methoxyacridine and its production. 2,531,012, Nov. 21.

Surrey, Alexander R., Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. 9-[3-(2-hydroxyethylamino)-propylamino]-2-methoxyacridine and its production. 2,531,013, Nov. 21.

Sveda, Michael, Cleveland, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of pyrosulfuryl chloride. 2,530,410, Nov. 21.

Swift & Company, assignee: *See*—
Patterson, William J.

Sylvania Electric Products, Inc., assignee: *See*—
Hutter, Rudolf G. E.
Lowry, Erwin F., and Homer.
Lowry, Erwin F., Mager, and Kellholtz.

Tack, Carl E., and F. E. Bachman, assignors to American Steel Foundries, Chicago, Ill. Shock absorber. 2,531,368, Nov. 21.

Tackett, John O., assignor of one-third to W. T. Nickell, Jackson, Miss. Firearm holster. 2,531,170, Nov. 21.

Talbot, Curtis O.: *See*—
Heck, John T., Du Mais, and Talbot.

Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Set-off device. 2,530,588, Nov. 21.

Tallman, William B., assignor to J. I. Case Company, Racine, Wis. Windrower leveling means. 2,530,668, Nov. 21.

Tandler, William S., D. S. Walker, and F. A. de Wiess, New York, and W. M. Teller, New Rochelle, assignors to Vendomatic Machine Corporation, New York, N. Y. Merchandise vending machine. 2,531,238, Nov. 21.

Tanvilac Company, The, assignee: *See*—
Chandler, Fred K.

Taylor, Byron M., San Diego, Calif. Arch support. 2,530,637, Nov. 21.

Taylor, Don, Detroit, Mich. Hair shaper. 2,530,917, Nov. 21.

Taylor, Don, Detroit, Mich. Hair shaper. 2,520,918, Nov. 21.

Taylor, Elzie R., Gomer, Ohio. Antenna mounting. 2,530,740, Nov. 21.

Taylor Fibre Co., assignee: *See*—
Muller, George J.

Taylor, George F., Milltown, Wis. Wall vent. 2,530,919, Nov. 21.

Tele-Industrie S. A. R. L., assignee: *See*—
De France, Henri G., and Bocquel.

Teller, William M.: *See*—
Tandler, William S., Walker, De Wiess, and Teller.

Temprite Products Corporation, assignee: *See*—
Wyllie, John, Jr.

Texas Company, The, assignee: *See*—
Albert, Edward V., Randall, and Barber.
Arnold, George B., and Hess.
Kreus, Kenneth L.

Thaheld, Fred A., Brea, Calif., assignor, by mesne assignments, to Diesel Power Inc., Pittsburgh, Pa. Diesel engine idling control. 2,530,741, Nov. 21.

Tharaldsen, Therald W., Drammen, Norway. Freezing apparatus. 2,531,087, Nov. 21.

Thomas, Charles C., Medford, assignor to North American Research Corporation, Cambridge, Mass. Camless regulator for grading devices. 2,531,369, Nov. 21.

Thomas Hydraulic Speed Controls, Inc., assignee: *See*—
Thomas, John R.

Thomas, John R., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans. Variable speed hydraulic clutch. 2,531,014, Nov. 21.

Thomas, Richard, Westwood Village, Calif. Shutter and lens system for highspeed color cameras. 2,530,793, Nov. 21.

Thomas, William S., Williamsport, Pa., assignor, by mesne assignments, to P. Zayac, Johnson City, J. Marconi, Endicott, and H. C. Schloer, Vestal, N. Y. Battery terminal connector. 2,531,307, Nov. 21.

Thomas, William S., Williamsport, Pa., assignor, by mesne assignments, to P. Zayac, Johnson City, J. Marconi, Endicott, and H. C. Schloer, Vestal, N. Y. Making battery terminal connectors. 2,531,308, Nov. 21.

Thomas, William S., Williamsport, Pa., assignor, by mesne assignments, to P. Zayac, Johnson City, J. Marconi, Endicott, and H. C. Schloer, Vestal, N. Y. Terminal connector. 2,531,309, Nov. 21.

Thompson, Lyman F., Fayetteville, Ark. Liquid discharging and collecting apparatus for cleaning. 2,531,370, Nov. 21.

Thompson, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Electrical prospecting method. 2,531,088, Nov. 21.

Thompson, William E., Nutwood, Ohio, assignor to General Electric Company. Internal ring gas burner. 2,531,015, Nov. 21.

Thomson, Alec, and G. D. Buffington, Akron, Ohio. Incision spreader. 2,531,171, Nov. 21.

Thorndyke, Keith, Pipestone, Minn. Portable arc welder. 2,530,487, Nov. 21.

Thornton, Kirby F., and L. W. Schumm, New Kensington, assignors to Aluminum Company of America, Pittsburgh, Pa. Extrusion apparatus. 2,530,669, Nov. 21.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Rod joint or connection. 2,530,554, Nov. 21.

Tinnerman Products, Inc., assignee: *See*—
Flora, Lawrence H.
Tinnerman, George A.

Tiscione, Anthony, Brooklyn, N. Y. Bubbling fluid ornamental display device. 2,530,794, Nov. 21.

Tishler, Max: *See*—
Pfister, Karl, III, and Tishler.

Tobin, Max, and F. J. Rogers, New York, N. Y. Simulated racing apparatus. 2,530,555, Nov. 21.

Toews, Peter J., assignor to Dough-King, Inc., Minneapolis, Minn. Doughnut machine. 2,530,920, Nov. 21.

Toland, William G., Jr., Richmond, assignor to California Research Corporation, San Francisco, Calif. Preparation of isophthalic acid. 2,531,172, Nov. 21.

Toland, William G., Jr., Richmond, assignor to California Research Corporation, San Francisco, Calif. Preparation of terephthalic acid. 2,531,173, Nov. 21.

Toledo Scale Company, assignee: *See*—
Bohahnan, Robert S.
Brown, James D.
Hart, Norman E.
Marco, Salvatore M., and Davis.
Robinson, Bruce E.
Weckerly, Mark A.
Wood, George R.

Tomlin, Emile A., Cambridge, Mass. Hole burning torch tip. 2,531,174, Nov. 21.

Tonn, Howard H., Arvada, assignor to Spectro Manufacturing & Sales, Inc., Wheatridge, Colo. Extensible Gate. 2,531,310, Nov. 21.

Tougas, Merced S., Vermilion, Ohio. Push-and-pull exerciser. 2,530,921, Nov. 21.

Tow, James O., Huntington Park, assignor to McCullough Tool Company, Los Angeles, Calif. Gun perforator. 2,530,844, Nov. 21.

Towler, Frank H.: *See*—
Towler, John M. and F. H.

Towler, John M., Thruscross, Summerbridge, near Harrogate, and F. H. Towler, Doh Park, near Otley, assignors to Electraulic Presses Limited, Rodley, England. Variable throttle valve. 2,531,371, Nov. 21.

Townsend, Maurice C., Hartford City, Ind. Water fountain for poultry. 2,530,922, Nov. 21.

Training Devices, Inc., assignee: *See*—
Bohl, William F., Jr.

Trefil, James: *See*—
Petrie, Eugene C., and Trefil.

Trenton Chemical Company, assignee: *See*—
Kilander, Acton K., and Edsall.

Trubenizing Process Corporation, assignee: *See*—
Loew, Theodore.

Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. 2,531,089, Nov. 21.

Turk, Amos, Brooklyn, N. Y., and P. D. Boone, Washington, D. C. Oxidation of olefinic fatty acids and esters thereof. 2,530,923, Nov. 21.

Turnbull, William G., Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Support and cord assembly for hand telephones. 2,530,556, Nov. 21.

Turner, Edgar P., Fanwood, and F. A. Hayes, Middletown, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating means for electric motor-clutch drives. 2,531,175, Nov. 21.

Turner, John, Boston, Mass. Reclining chair. 2,530,924, Nov. 21.

Turner, Ransom H., Great Neck, N. Y., assignor to Mergenthaler Linotype Company. Ejecting mechanism for slug casting machines. 2,531,311, Nov. 21.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread control for weft replenishing looms. 2,531,176, Nov. 21.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread holder for weft replenishing looms. 2,531,177, Nov. 21.

Turner, William E., assignor to O. B. Andrews Company, Chattanooga, Tenn. Bobbin box. 2,531,090, Nov. 21.

Twente, Herbert H., assignee: *See*—
Gearhart, Roy E.

Twitty, Frank L., Bronxville, N. Y. Comb and brush combination. 2,531,239, Nov. 21.

Udelman, Jaime, Maracay, Venezuela. Rotary engine or turbine. 2,530,925, Nov. 21.

Union Carbide and Carbon Corporation, assignee: *See*—
Spessard, Clayton I.

Union Oil Company of California, assignee: *See*—
Zinszer, Richard H.

Union Special Machine Company, assignee: *See*—
Christensen, Norman V., and Rubel.

Union Switch & Signal Company, The, assignee: *See*—
Sorensen, Andrew J.

United-Carr Fastener Corporation, assignee: *See*—
Amesbury, Robert R.
Churchill, Wilmer H.

United Shoe Machinery Corporation, assignee: *See*—
Eastman, Fred C.
Edgar, David.
Gookin, Sylvester L.
Ray, Eugene J.
White, Percy, and Keall.

United States of America, assignee: *See*—
Fieser, Louis F., and Van Loenen.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Brown, Robert J. S., and Weiss.
Malm, John G., and Hutchison.
Manley, John H.
Sands, Matthew L., Frisch, and Elmore.
Wisner, Raymond R.

Universal Oil Products Company, assignee: *See*—
Bockman, Theodore.
Chenicek, Joseph A.
Linn, Carl B.

University of Pennsylvania, The Trustees of the, assignee: *See*—
Ehrenstein, Maximilian R.

Unk, Jacob M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for arresting a shaft. 2,530,705, Nov. 21.

Upjohn Company, The, assignee: *See*—
Levin, Robert H., and McIntosh.

Van Alphen, Pieter M., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Manufacturing an optical element. 2,530,742, Nov. 21.

Van der Ziel, Aldert: *See*—
Knol, Kornelis S., and van der Ziel.
Strutt, Maximiliaan J. O., and van der Ziel.

Van Dormael, André E., Heverlee (Louvain), assignor to Gevaert Photo-Producten N. V., Antwerp-Mortsel, Belgium. N-acetonyl-pyridinium chloride as an azo coupling component in diazotypes. 2,531,091, Nov. 21.

Van Eldik, Pieter F.: *See*—
Alma, Gerrit H. P., and Van Eldik.

Van Loenen, William F.: *See*—
Fieser, Louis F., and Van Loenen.

Van Loenen, William F., Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation. Incendiary composition. 2,530,489, Nov. 21.

Van Loenen, William F., Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation. Making incendiary compositions. 2,530,490, Nov. 21.

Van Loenen, William F., Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation. Incendiary composition. 2,530,491, Nov. 21.

Van Loenen, William F., Los Altos, Calif., assignor, by mesne assignments, to Kaiser Aluminum & Chemical Corporation. Making incendiary compositions. 2,530,492, Nov. 21.

Van Loenen, William F., Laurel, Calif., assignor to Kaiser Aluminum & Chemical Corporation. Magnesium-containing incendiary composition and producing same. 2,530,493, Nov. 21.

Van Nest, Francis H., Marblehead, Mass., assignor to General Electric Company. Frame structure for turbine-generator prime movers. 2,531,178, Nov. 21.

Van Scoyk, Melvin W., assignor to Winner Equipment Company, Denver, Colo. Vulcanizing spot press. 2,530,411, Nov. 21.

Van Vlaanderen Machine Company, assignee: *See*—
Eberhardt, Herman.

Van Wageningen, Johan H.: *See*—
Wiegerinck, Hendrikus T. J., and van Wageningen.

Veenemans, Cornelis F., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Secondary emissive electric discharge tube. 2,530,743, Nov. 21.

Vendomatic Machine Corporation, assignee: *See*—
Tandler, William S., Walker, de Wiess, and Teller.

Vickers, Incorporated, assignee: *See*—
Rutherford, Harry T.

Vigerust, Oliver S., La Tuna, Tex. Flatwork washer. 2,530,494, Nov. 21.

Villem, Raymond, Paris, France, assignor to Societe Francaise Radio-Electrique. Short-wave, long distance communication system. 2,530,926, Nov. 21.

Vizard, William C., assignor to Barbour Welting Company, Brockton, Mass. Two-unit welting. 2,530,927, Nov. 21.

Vogel, William M., Montclair, N. J. Sprayer. 2,530,557, Nov. 21.

Voigtritter, Max H., assignor to J. P. Seeburg Corporation, Chicago, Ill. Merchandise dispensing apparatus. 2,531,347, Nov. 21.

Vollmer, Paul L.: *See*—
Krapf, Herman C., and Vollmer.

Volpin, Alexander S., Houston, Tex. Line pressure lubricated plug valve. 2,530,744, Nov. 21.

Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Label feeding machine. 2,530,670, Nov. 21.

Von Loon, Carel J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Oscillator circuit arrangement. 2,531,312, Nov. 21.

Voss, John H., and R. W. Jones, Rochester, N. Y., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay automatic telephone system. 2,530,845, Nov. 21.

Waechter, Otto H., North Plainfield, N. J. Treatment of fibro-cement products. 2,531,016, Nov. 21.

Wagner, George H.: *See*—
Hance, Charles R., and Wagner.

Wagner, Richard H.: *See*—
Atwell, Clarence A., and Wagner.

Wahlin, Fred W., Oak Park, assignor to Spraying Systems Co., Chicago, Ill. Flat spray nozzle. 2,530,671, Nov. 21.

Waldvogel, Jakob, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Rail-vehicle bogie with depressed center pin. 2,530,495, Nov. 21.

Walker, David S.: *See*—
Tandler, William S., Walker, de Wiess, and Teller.

Walker, James S., San Francisco, Calif. Air conditioning cooling system for steam condensers. 2,530,443, Nov. 21.

Walker, Nelson W., Youngstown, Ohio. Icer for bakery products. 2,531,093, Nov. 21.

Wallace, Robert L., Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor microphone with conductive grains. 2,530,745, Nov. 21.

Wallace, Sidney J., Vancouver, British Columbia, Canada, assignor to American Can Company, New York, N. Y. Conveyer with toggle locking feed dog. 2,530,412, Nov. 21.

Waller, Joseph B., Baltimore, Md. Bottle carrier. 2,531,092, Nov. 21.

Walz, Claude W.: *See*—
Bohmker, Thomas W., Walz, and Clark.

Wander, A., Dr., A.-G., assignee: *See*—
Hirt, Rudolf.

Wannamaker, William H., Flourtown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Oscillator and oscillator-controlled relay system. 2,531,313, Nov. 21.

Warth, Albin H., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Container. 2,530,413, Nov. 21.

Waterbury Farrel Foundry and Machine Company, assignee: *See*—
Wilcox, Richard L.

Waterman, Beatrice J., executrix: *See*—
Waterman, Herbert.

Waterman, Herbert, deceased, Los Angeles, Calif.; B. J. Waterman, executrix of said H. Waterman, assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Trifluorobromomethane. 2,531,372, Nov. 21.

Waterman, Herbert, deceased, by B. J. Waterman, executrix, Los Angeles, Calif., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Refrigeration. 2,531,373, Nov. 21.

Waterman, Russell R., Lodi, Calif. Dual power unit for duplex pumps. 2,531,094, Nov. 21.

Watson, Harold R., Victorville, Calif. Hay stacker and loader. 2,530,496, Nov. 21.

Watson, Kenneth M., Madison, Wis., assignor to Sinclair Refining Company, New York, N. Y. Gas-solid contact apparatus. 2,530,558, Nov. 21.

Waugh, Richard C.: *See*—
Johnson, Carl E., and Waugh.

Webb, Jervis B., Company, assignee: *See*—
Rose, Andrew G.

Webster, Clifford L., assignor to Aluminum Air Seal Manufacturing Company, Youngstown, Ohio. Modifying section for storm window frames. 2,530,840, Nov. 21.

Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Weighing machine illuminator. 2,531,179, Nov. 21.

Weekley, B. F., assignee: *See*—
Cranfill, Otis.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Automatic control for water heaters. 2,531,180, Nov. 21.

Weems Navigation, Inc., assignee: *See*—
Belch, Keith R.

Welland, Edward A., Garfield Heights, assignor to The Hoover Company, North Canton, Ohio. Ironing surface for electric irons. 2,530,672, Nov. 21.

Weiss, Herbert G.: *See*—
Brown, Robert J. S., and Weiss.

Wells, Robert L., Douglas, Ga., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Combined bulldozer and tractor shovel. 2,530,414, Nov. 21.

Wentworth, Hampden: *See*—
Peterson, Albin, and Wentworth.

West, Charles P., H. H. Rugg, and P. R. Pierson, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bus structure. 2,531,017, Nov. 21.

West Bend Aluminum Co., assignee: *See*—
Morrison, Willard L., Jr.

West End Chemical Company, assignee: *See*—
Wiseman, James.

Western Electric Company, Incorporated, assignee: *See*—
Buchwald, Charles E., and Ehret.
Carmer, Bertram H., Jr., and Dutra.

Western Engineering Trust, trustee: *See*—
Delegard, Carl J., and Nardulli.

Westfield Metal Products Co., Inc., assignee: *See*—
Johnson, Robert A.

Westinghouse Air Brake Company, The, assignee: *See*—
Hewitt, Ellis E.
Kelley, Cecil S.
Kirk, Walter B.

Westinghouse Electric Corporation, assignee: *See*—
Allbert, Eugene F.
Atwell, Clarence A., and Wagner.
Baker, Benjamin P., and Schrameck.
Bock, Ashley P.
Bovkin, John R.
Browne, Thomas E., Jr.
Chapman, James F., and Riesz.
Cotner, Walter W.
Fry, Francis J.
Heinemann, Robert O.
Jernstedt, George W.
Kenyon, Alonzo F.
Kirsch, William A., and Wilhite.
Krapf, Herman C., and Vollmer.
Matland, Carl G., and Katz.
Mershon, Clarence L.
Mikina, Stanley J.
Miner, John D., Jr.
Minter, Herbert F.
Moberly, Lawrence E.
Roman, Walter G.
Rumpf, Rupert L., Jr.
Schaelchlin, Walter.
Strom, Albert P., and Berberich.
West, Charles P., Rugg, and Pierson.
Young, Douglass A., Lenehan, and Bush.

Wetherby, John K., Minneapolis, Minn. Pouch type golf ball cleaner having a washable inner lining. 2,530,746, Nov. 21.

Wevant, Valone V., assignor to The Yoder Co., Cleveland, Ohio. Synchronizing device. 2,530,796, Nov. 21.

Whipple, Paul J., Plymouth, Mass. Flume gate for cranberry bogs and the like. 2,530,747, Nov. 21.

White, John C., Madison, Wis. Liquid heater control. 2,530,638, Nov. 21.

White, Percy, Leicester, and F. B. Keall, Swanage, England, assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel breasting machine. 2,530,590, Nov. 21.

White, Sidney Y., Bayside, N. Y., assignor to V. S. Johnson, deceased, Chicago, Ill.; V. S. Johnson, Jr., administrator de bonis non of said V. S. Johnson. Radio frequency tuned circuit and tube socket assembly. 2,530,639, Nov. 21.

Wicklatz, John E., Cincinnati, Ohio, assignor to Phillips Petroleum Company. Production of pentazdienes. 2,530,497, Nov. 21.

Wickman, A. C., Limited, assignee: *See*—
Dickinson, Ernest.

Wickman, Howard G., assignor to Children's Furniture Corporation, Gardner, Mass. Spring-frame supporting bracket. 2,530,640, Nov. 21.

Wiegerinck, Hendrikus T. J.: *See*—
Kuperus, Jan, and Wiegerinck.

Wiegerinck, Hendrikus T. J., and J. H. van Wageningen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Tuning indicator system. 2,530,847, Nov. 21.

Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Burr remover for slotting machines and the like. 2,531,240, Nov. 21.

Wild, Rudolf F., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,530,928, Nov. 21.

Wilhite, James G.: *See*—
Kirsch, William A., and Wilhite.

Willard Storage Battery Company, assignee: *See*—
Raney, Robert M., and Jones.

Williams, Francis B., Columbus, Ohio. Vehicle brake cable oiler. 2,531,095, Nov. 21.

Wilson, J. G., Corporation, The, assignee: *See*—
Pringle, Edward S.

Wilson, James E., Dayton, Ohio. Electrical connector plug. 2,530,415, Nov. 21.

Wilson, Sylvester V., Indianapolis, Ind. Heated steering wheel for automobiles. 2,530,559, Nov. 21.

Wilson, Wayne E., Fitchburg, Mass., assignor to General Electric Company. Automatic arc welding apparatus. 2,531,181, Nov. 21.

Winchel, Henry T., Roscoe, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio repeating system. 2,530,748, Nov. 21.

Wingfoot Corporation, assignee: *See*—
Meador, Robert H., Jr.

Winner Equipment Company, assignee: *See*—
Van Scoyk, Melvin W.

Winslow, Edward N., Chagrin Falls, Ohio. Kite. 2,530,641, Nov. 21.

Wirfel, James W., Brooklyn, N. Y. Bingo game frame. 2,530,929, Nov. 21.

Wiseman, James, Westend, Calif., assignor to West End Chemical Company. Manufacture of boric acid. 2,531,182, Nov. 21.

Wisner, Raymond R., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Grounding cables. 2,531,183, Nov. 21.

Witts, Glenn H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Remote control device. 2,531,241, Nov. 21.

Wolf, Frank J., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Recovering vitamin B_{12}. 2,530,416, Nov. 21.

Wood, Fredric E.: *See*—
Bloomenthal, Sidney, and Wood.

Wood, George R., assignor to Toledo Scale Company, Toledo, Ohio. Knife sharpening apparatus for food slicing machines. 2,531,184, Nov. 21.

Woods, Alfred E., Larkspur, assignor to Fibreboard Products Inc., San Francisco, Calif. Method and apparatus for loading freight cars. 2,530,444, Nov. 21.

Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors, by mesne assignments, to Lee C. Moore Corporation, Pittsburgh, Pa. Mast structure. 2,530,848, Nov. 21.

Worth, Francis C., Brooklyn, N. Y. Device for applying sheet material to cylindrical articles. 2,531,314, Nov. 21.

Wurster, John H., Pittsfield, Mass., assignor to General Electric Company. Rolled type capacitor. 2,531,185, Nov. 21.

Wyatt, Frank A., Indiana, and C. F. Slater, Pittsburgh, assignors to B. F. Louis, Indiana, Pa. Beverage case. 2,530,849, Nov. 21.

Wyllie, John, Jr., deceased, Detroit, Mich., by M. B. Wyllie, executrix, assignor to Temprite Products Corporation, Detroit, Mich. Liquid cooling apparatus. 2,531,315, Nov. 21.

Wyllie, Margaret B., executrix: *See*—
Wyllie, John, Jr.

X-Ray Electronic Corporation, assignee: *See*—
Fun, Frederic.

Yardeny, Michel N., and A. Razdowitz, New York, N. Y.; said Razdowitz assignor to said Yardeny. Electrical control device. 2,530,642, Nov. 21.

Yardeny, Michel N., R. Bernas, and S. A. Goldberg, New York, N. Y., assignors to Consolidated Development & Improvements Corp. Control device with impulse drive. 2,530,749, Nov. 21.

Yardeny, Michel N., New York, R. Bernas, Bronx, and S. Goldberg, New York, N. Y.; said Bernas and said Goldberg assignors to said Yardeny. Two wire follow-up system. 2,530,750, Nov. 21.

Yardeny, Michel N., and R. Bernas, New York, N. Y.; said Bernas assignor to said Yardeny. Switching device. 2,531,186, Nov. 21.

Yardeny, Michel N., and A. Razdowitz, New York, N. Y.; said Razdowitz assignor to said Yardeny. Switch-over system. 2,531,187, Nov. 21.

Yates, Charles G., Jr., Schenectady, N. Y., assignor to General Electric Company. Automatic pitch control. 2,531,188, Nov. 21.

Yenzer, George R., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrodynamic phonograph pickup. 2,531,242, Nov. 21.

LIST OF PATENTEES

Yirava, Charles R. : *See*—
Johnson, James E., and Yirava.
Yoder Co., The, assignee : *See*—
Weyant, Valone V.
Young, Carey M., New York, N. Y. Dissolving device for multiple projectors. 2,530,417, Nov. 21.
Young, Charles A., Gloucester, Mass. Safety lock for fire-arms. 2,530,560, Nov. 21.
Young, Douglass A., East Orange, B. E. Lenehan, Bloomfield, and H. F. Bush, Florham Park, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical phase measuring instrument. 2,531,018, Nov. 21.
Young, John S., Greensburg, Pa. Electric air circulating oil well heater. 2,530,445, Nov. 21.
Zayac, Peter, assignee : *See*—
Thomas, William S.
Zimmerman, Arthur G. : *See*—
Hoehn, John J., and Zimmerman.
Zink, John S., Tulsa, Okla. Multiple fuel burner. 2,531,316, Nov. 21.
Zinsco Electrical Products, assignee : *See*—
Stanley, Zina R.
Zinszer, Richard H., Los Alonas, assignor to Union Oil Company of California, Los Angeles, Calif. Pumping viscous fluids. 2,530,673, Nov. 21.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Heat ray detector, Modulated. M. D. Liston. Re. 23,295, Nov. 21.
Vehicle washer. W. H. Hopper and V. R. Drake. Re. 23,294, Nov. 21.

LIST OF PLANT INVENTIONS

Chrysanthemum plant. V. R. De Petris. 988, Nov. 21.
Gardenia plant. R. I. McLellan and N. B. Morrow. 989, Nov. 21.
Philodendron plant. H. F. Bohne. 990, Nov. 21.
Rose plant. H. A. M. Verschuren. 991, Nov. 21.

LIST OF DESIGN INVENTIONS

Air circulator unit. J. W. Kisling. 160,948, Nov. 21.
Ash tray. R. H. Galbreath. 160,934, Nov. 21.
Blower or similar article, Cut hair. S. L. Ciulla. 160,922, Nov. 21.
Bonnett. J. R. Robbins. 160,972, Nov. 21.
Bottle. W. T. Heintze. 160,942, Nov. 21.
Bracelet or similar article. A. Philippe. 160,958, Nov. 21.
Bracelet or similar article, Watch. K. C. Augenstein. 160,917, Nov. 21.
Brooch or similar article. A. Philippe. 160,961–4, Nov. 21.
Brooch or similar article. A. Philippe. 160,966–7, Nov. 21.
Cabinet, Advertising. L. H. Goldman. 160,937, Nov. 21.
Cabinet, Radio receiver. C. Reynolds, Jr. 160,970, Nov. 21.
Camera. A. H. Crapsey, Jr. 160,925–6, Nov. 21.
Cap unit, Valve operating spray nozzle. J. C. Crowley. 160,927, Nov. 21.
Case, Traveling. A. Knell. 160,949, Nov. 21.
Case, Vanity. A. P. Conant. 160,924, Nov. 21.
Centerpiece. W. T. Heintze and A. T. Donahue. 160,943, Nov. 21.
Chain for a bracelet or similar article, Link. S. Ritter. 160,971, Nov. 21.
Chain for a necklace or similar article, Link. A. Philippe. 160,968, Nov. 21.
Coat with detachable hood, Lady's. S. Saparow. 160,973, Nov. 21.
Cooking apparatus. L. E. Finch. 160,932, Nov. 21.
Duplicating machine. G. M. Hunt. 160,946, Nov. 21.
Earring or similar article. A. Philippe. 160,959–60, Nov. 21.
Earring or similar article. A. Philippe. 160,969, Nov. 21.
Eraser and brush, Combination. E. Wild. 160,983–4, Nov. 21.
Fabric, Flocked. J. Alexander. 160,913–14, Nov. 21.
Fabric or similar article, Liturgical. C. M. Muench. 160,954, Nov. 21.
Fabric or similar article, Liturgical. W. T. Mulloy. 160,955, Nov. 21.
Fabric or the like, Narrow textile. C. A. Limbach. 160,952, Nov. 21.
Fabric, Textile. J. Gluck. 160,936, Nov. 21.
Fabric, Tinsel appliquéd. J. I. Kingson. 160,947, Nov. 21.
Fender molding and ornament, Combined automobile. C. E. Sykes. 160,978, Nov. 21.
Fishing lure. L. B. Shroff. 160,976, Nov. 21.
Fixture, Combination bathroom. G. Holzhausen. 160,945, Nov. 21.
Game board, Captive ball. J. A. Mettler. 160,953, Nov. 21.
Golf game apparatus. V. L. Tannehill. 160,979, Nov. 21.
Handle for kitchen utensils or similar articles. F. Wagner. 160,980–1, Nov. 21.
Heater or similar article, Overhead. H. R. Greene. 160,939, Nov. 21.
Heater or similar article, Overhead space. H. R. Greene. 160,938, Nov. 21.
Holder for tissues or the like. H. S. Chase and G. C. Mathes. 160,921, Nov. 21.
Hood for securing means of money bags or the like. P. F. D'Aleo. 160,928, Nov. 21.
Insulator, Antennae. H. E. Arnold and G. W. Saffran. 160,915, Nov. 21.
Jewelry component or similar article. K. C. Augenstein. 160,916, Nov. 21.
Lamp and telephone stand, Combined. H. A. Glaeser. 160,935, Nov. 21.
Lamp or similar article, Fender. D. M. and E. M. Pearl. 160,956, Nov. 21.
Lighter, Cigarette. J. Simon and R. S. Temko. 160,977, Nov. 21.
Machine for generating spherical surfaces on articles. W. D. Fowler. 160,933, Nov. 21.
Necklace or similar article. A. Philippe. 160,957, Nov. 21.
Necklace or similar article. A. Philippe. 160,965, Nov. 21.
Nipple. W. H. Griesinger. 160,940, Nov. 21.
Palette and water jar, Combined. E. D. Davis and N. Shaeffer. 160,929, Nov. 21.
Panel for a cooking range, Backsplash. W. E. Williams and E. W. Harrison. 160,985–6, Nov. 21.
Pendant or the like. C. Schraysshuen. 160,974, Nov. 21.
Photographing machine, Document. W. W. Eaton and H. T. Olson. 160,931, Nov. 21.
Range. R. E. Kruck. 160,950–1, Nov. 21.
Shaker, Condiment. G. Brooks, Jr. 160,920, Nov. 21.
Slicer, Vegetable. E. F. Whitfill and H. J. Talge. 160,982, Nov. 21.
Stand, Basin. H. M. Berner. 160,918, Nov. 21.
Stand for beverage dispensers. R. B. Duff. 160,930, Nov. 21.
Table, Bowling game. E. J. Collins. 160,923, Nov. 21.
Toothbrush. D. W. Brooks. 160,919, Nov. 21.
Trousers. B. M. Havens. 160,941, Nov. 21.
Trousers, Child's. J. Herman. 160,944, Nov. 21.
Wallpaper or the like. J. Seeman. 160,975, Nov. 21.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abacus. I. E. Birdsall. 2,530,447, Nov. 21.
Abrading machine, Traveling band. E. W. Hall. 2,530,980, Nov. 21.
Accumulator, heat exchanger, and metering device for refrigerating systems, Combination. M. T. Cahenzli, Jr. and G. Muffly. 2,530,648, Nov. 21.
Acetonitriles as azo components in diazotypes. S. C. Slifkin. 2,531,004, Nov. 21.
Activator solution for machineless hair-waving pads. H. W. Mace. 2,531,359, Nov. 21.
Actuating mechanism, Differential. A. G. Russell. 2,530,996, Nov. 21.
Adapter for collapsible tube winding key for varying taper of key. A. A. F. Krueger. 2,531,060, Nov. 21.
Adducts of bisnor-5,7,9(11)-cholatrien-22-al-3-one. R. H. Levin and A. V. McIntosh, Jr. 2,530,389, Nov. 21.
Adducts of 22-aryl-bisnor-5,7,9(11)-cholatrien-22-ones. R. H. Levin and A. V. McIntosh, Jr. 2,530,390, Nov. 21.
Adjustable automotive upper control pin. G. R. Di Paolo and J. A. Anzovino. 2,531,326, Nov. 21.
Adjustable garment hanger. T. Casey. 2,531,108, Nov. 21.
Adjustable hacksaw frame. H. W. Kulp. 2,531,135, Nov. 21.
Adjusting or controlling device. B. L. Haver. 2,531,216, Nov. 21.
Agitator. H. L. Cerniak. 2,530,858, Nov. 21.
Air brake. L. I. Pickert. 2,530,723, Nov. 21.
Air conditioning cooling system for steam condensers. J. S. Walker. 2,530,443, Nov. 21.
Aircraft booster control system. T. C. Hill. 2,530,659, Nov. 21.
Air duct construction. L. P. Brett. 2,531,349, Nov. 21.
Air feeding and cooled furnace front structure. T. H. Polad. 2,531,344, Nov. 21.
Alarm, Pocket radiation. R. J. S. Brown and H. G. Weiss. 2,531,106, Nov. 21.
Alcohols, Production of. N. Levy and R. K. Greenhalgh. 2,531,284, Nov. 21.
Aldehydes, Production of unsaturated. H. O. Mottern and V. F. Mistretta. 2,530,987, Nov. 21.
Aligner, Train and rail. R. V. Mellor. 2,530,895, Nov. 21.
Alkylated aromatic hydrocarbons and sulfonation thereof, Preparation of. J. Q. Cope and J. W. Scott, Jr. 2,531,324, Nov. 21.
Alkylation of thiophene compounds. K. L. Kreuz. 2,531,280, Nov. 21.
Alkylene-bridged 5,6-dihydroxyquinolines. W. A. Lott. 2,530,831, Nov. 21.
Alloy plating, Bright. G. W. Jernstedt. 2,530,967, Nov. 21.
Altimeter, particularly applicable to low altitudes, Aircraft. A. J. Ortusi and M. Ponte. 2,530,905, Nov. 21.
Amplifying apparatus, Push-pull high-frequency. M. J. O. Strutt and A. van der Ziel. 2,530,636, Nov. 21.
Amplifying system provided with parallel electron discharge paths having different mutual conductances. G. H. P. Alma and P. F. van Eldik. 2,530,591, Nov. 21.
Anchor winch. S. W. Smith. 2,530,586, Nov. 21.
Animated sign. R. U. Seares. 2,530,404, Nov. 21.
Antenna mounting. E. R. Taylor. 2,530,740, Nov. 21.
Antenna, Television. S. Epstein. 2,531,035, Nov. 21.
Antitarnish composition. W. Dietz. 2,531,114, Nov. 21.
Apparatus and method for filling gas storage cylinders. A. E. Hirl. 2,530,523, Nov. 21.
Apparatus for aerating liquids. G. de Becze and A. J. Liebmann. 2,530,814, Nov. 21.
Apparatus for applying pattern forming material. W. J. Goettsch. 2,531,036, Nov. 21.
Apparatus for changing the ion source of a cyclotron. J. J. Livingood, J. V. Peters, and R. A. Streeter. 2,531,063, Nov. 21.
Apparatus for controlling the passage of wire through a sand pan. C. D. Johnson. 2,531,132, Nov. 21.
Apparatus for cooking solids in liquids. B. C. Skinner. 2,531,378, Nov. 21.
Apparatus for filling containers with liquid. D. W. Bingham. 2,530,755, Nov. 21.
Apparatus for handling loads. J. H. Kemp, Jr. 2,530,704, Nov. 21.
Apparatus for heating fluids. D. H. Greene. 2,530,959, Nov. 21.
Apparatus for heating motor vehicle door keys. A. J. Drugan. 2,530,513, Nov. 21.
Apparatus for making hair retainers. L. T. Sawyer 2,531,299, Nov. 21.
Apparatus for making wrench nuts. R. A. Johnson 2,530,948, Nov. 21.
Apparatus for mining coal or similar mineral. G. A. Merchant. 2,531,072, Nov. 21.
Apparatus for photographic reproduction by means of an electronic flash bulb. F. L. McGuffin. 2,530,396, Nov. 21.
Apparatus for plating crankshafts. E. L. Berkenkotter and J. H. Hers. 2,530,677, Nov. 21.
Apparatus for proportioning and mixing materials. A. C Arril. 2,530,501, Nov. 21.
Apparatus for recording the operation of control levers of electrically driven vehicles. R. S. Clark. 2,530,508, Nov. 21.
Apparatus for the measurement of the index number of telegraph signals. J. Pernic and R. Leroy. 2,530,839, Nov. 21.
Apparatus for treating twisted filamentary materials. A. H. Burkholder. 2,530,680, Nov. 21.
Appliance for use in cutting and polishing diamonds and other substances. T. P. N. Burness and A. Johnson. 2,530,421, Nov. 21.
Aqueous amino acid solutions. S. Alpert and G. J. Martin. 2,531,097, Nov. 21.
Arc welder, Portable. K. Thorndyke. 2,530,487, Nov. 21.
Arc welding apparatus, Automatic. W. E. Wilson. 2,531,181, Nov. 21.
Arch support. B. M. Taylor. 2,530,637, Nov. 21.
Armrest for vehicle use. L. I. Faggen. 2,530,384, Nov. 21.
Articulated fairing. F. C. Eastman. 2,530,571, Nov. 21.
Artificial tooth. F. Dell'Anno. 2,530,601, Nov. 21.
Artist's sketch box. D. M. Abel. 2,531,189, Nov. 21.
Attachment for headlights, Fog light. C. E. Davis and E. D. Stevenson. 2,530,685, Nov. 21.
Attachment for presses. N. F. Carden, Jr. 2,531,253, Nov. 21.
Attachment for tractors, Front-wheel mud guard. D. A. Campbell. 2,530,857, Nov. 21.
Attachment for wrench handles, Snapper. R. Craig. 2,530,863, Nov. 21.
Attenuator with plug in or out elements, Rotatable vane type. A. E. Bowen. 2,531,194, Nov. 21.
Automatic control system using nonlinear responsive elements. E. T. Davis. 2,531,200, Nov. 21.
Automatic door. R. Everitt. 2,531,119, Nov. 21.
Automatic open center six port control valve. L. M. Chattler. 2,530,377, Nov. 21.
Axially engaging positive clutch. S. Mandl and E. M. Pfauser. 2,530,887, Nov. 21.
Balancing the axial thrust of elastic fluid compressors and turbines of the axial flow type. F. E. O. Östmar. 2,530,477, Nov. 21.
Bar: *See*—
Glazing bar.
Barrette, Beaded. G. N. Bolinger. 2,531,024, Nov. 21.
Basket, Egg gathering. A. H. Massey and D. Q. Park. 2,530,889, Nov. 21.
Bathing cap. R. T. Blesh. 2,531,318, Nov. 21.
Battery charging apparatus. A. J. Sorensen. 2,530,587, Nov. 21.
Battery connector. C. A. Olson. 2,531,291, Nov. 21.
Battery connector. H. E. Rutherford. 2,531,162, Nov. 21.
Battery, storage. R. M. Raney and V. J. Jones. 2,530,539, Nov. 21.
Battery terminal connector. W. S. Thomas. 2,531,307, Nov. 21.
Battery Terminal connectors, Making. W. S. Thomas. 2,531,308, Nov. 21.
Bearing. A. V. Hoefliger. 2,530,660, Nov. 21.
Bearing. R. R. Searles. 2,530,665, Nov. 21.
Bearing assembly, Aligned. J. J. Grenat. 2,531,334, Nov. 21.
Bedpan commode. W. S. Horne. 2,530,965, Nov. 21.
Belt-forming device. A. L. Owens. 2,530,988, Nov. 21.
Belting fabric and process. J. B. Sidebotham. 2,531,082, Nov. 21.
Bench and mirror, Vanity. K. R. Johnson. 2,531,217, Nov. 21.
Benzhydryl esters as insecticides. Peter L. de Benneville and H. D. Segool. 2,530,653, Nov. 21.
Beverage case. F. A. Wyatt and C. F. Slater. 2,530,849, Nov. 21.
Bicycle fork fixture. T. Avenia. 2,530,500, Nov. 21.
Bicycle stabilizer. L. C. Atwood and A. Johnson. 2,530,498, Nov. 21.
Bingo game frame. J. W. Wirfel. 2,530,929, Nov. 21.
Bistable semiconductor multivibrator circuit. R. P. Moore, Jr. 2,531,076, Nov. 21.
Blind rivet. O. H. Hood. 2,531,270, Nov. 21.
Block: *See*—
Wire drawing block.
Blow-down method for a coil-type cleaning machine. J. F. Malsbary. 2,530,710, Nov. 21.

Board: *See*—
Calculating board.
Drawing or sketching board.
Boat bailer. C. F. Pye. 2,530,664, Nov. 21.
Bobbin box. W. E. Turner. 2,531,090, Nov. 21.
Body for plumbers' trucks. N. C. Hotop, 2,530,578, Nov. 21.
Bolster for log haulers, Pivoted. R. G. Le Tourneau. 2,530,776, Nov. 21.
Boric acid, Manufacture of. J. Wiseman. 2,531,182, Nov. 21.
Bottle cap. H. A. Schuler. 2,530,999, Nov. 21.
Bottle carrier. J. B. Waller. 2,531,092, Nov. 21.
Bowling alley. H. G. Snyder. 2,531,168, Nov. 21.
Bowling alley pin and ball separating and conveying mechanism. A. M. Simpson. 2,531,157, Nov. 21.
Bowling ball retarding device for bowling alley runways. E. Hedenskoog. 2,530,429, Nov. 21.
Bowling pin raising and lowering mechanism. S. A. Frye. 2,530,385, Nov. 21.
Box: *See*—
Artist's sketch box. Bobbin box.
Bracket: *See*—
Hoist bracket.
Spring-frame supporting bracket.
Brake: *See*—
Air brake. Rotor type railway brake.
Coaster brake.
Brake apparatus. W. B. Kirk. 2,531,055, Nov. 21.
Brake lever structure. H. S. Jandus. 2,531,130, Nov. 21.
Broadcast system, Relay satellite. W. Darling. 2,531,199, Nov. 21.
Bubble cap and controlling vapor distribution therethrough, Tunnel-type. W. S. Craft. 2,531,030, Nov. 21.
Bucket holder. A. E. F. Johnson. 2,531,131, Nov. 21.
Buckle. M. Licursi. 2,531,226, Nov. 21.
Buff construction. J. D. Blair and G. A. Hendey. 2,531,249, Nov. 21.
Buffing and polishing wheel. F. W. Littlefield. 2,530,530, Nov. 21.
Building unit. S. G. and W. Loewenthal. 2,530,708, Nov. 21.
Bulldozer and tractor shovel, Combined. R. L. Wells. 2,530,414, Nov. 21.
Burner: *See*—
Internal ring gas burner. Spiral flame gas burner.
Multiple fuel burner. Vaporizing type blast
Oil burner. whirl oil burner.
Pan type vapor burner.
Burr remover for slotting machines and the like. R. L. Wilcox. 2,531,240, Nov. 21.
Bus structure. C. P. West, H. H. Rugg, and P. R. Pierson. 2,531,017, Nov. 21.
Cabinet: *See*—
Card cabinet. Refrigeration cabinet.
Cable and post clamp, Battery. J. B. Batlle. 2,531,247, Nov. 21.
Cable stranding machine. O. E. Rasmussen. 2,530,726, Nov. 21.
Calculating board. C. Carson. 2,530,423, Nov. 21.
Calculating machine. J. A. V. Turck. 2,531,089, Nov. 21.
Camera having means for feeding a plurality of film strips, Photographic. S. W. Langdon. 2,531,376, Nov. 21.
Camera, Indentification and fingerprint. W. T. Cirone. 2,530,758, Nov. 21.
Camera mounting apparatus. A. and D. A. Caroselli. 2,531,254, Nov. 21.
Camera shutter, Compound blade symmetrical opening. I. W. Doyle. 2,531,034, Nov. 21.
Can unscrambler. E. Bourland. 2,530,419, Nov. 21.
Cap: *See*—
Bathing cap. Bottle cap.
Cap for water fountains, Adjustable. M. A. Schultz. 2,530,911, Nov. 21.
Capacitor, Rolled type. J. H. Wurster. 2,531,185, Nov. 21.
Carbon supplying composition. S. A. Gilbert and A. H. Stanley. 2,530,459, Nov. 21.
Carburetor. J. M. J. F. Méynier. 2,530,716, Nov. 21.
Card cabinet. C. A. Phillips. 2,530,781, Nov. 21.
Carriage, Convertible baby. R. S. Aries. 2,530,592, Nov. 21.
Carriage tabulating means. H. Gang. 2,531,204, Nov. 21.
Carrier: *See*—
Bottle carrier.
Carton blank feeder. R. A. Bloom. 2,530,644, Nov. 21.
Case: *See*—
Beverage case.
Casting. J. B. Brennan. 2,530,853, Nov. 21.
Casting apparatus. J. B. Brennan. 2,530,854, Nov. 21.
Catalyst contacting apparatus. T. Bockman. 2,530,645, Nov. 21.
Cell, Primary. E. L. and L. B. Anderson. 2,530,751, Nov. 21.
Censer. L. R. Le Tang. 2,530,529, Nov. 21.
Chain drive. A. G. Rose. 2,530,786, Nov. 21.
Chain-driven ratchet wrench. J. D. Strobell. 2,530,553, Nov. 21.
Chair: *See*—
Reclining chair. Retractable theater chair.
Chair base, Detachable. J. S. Cohen. 2,531,322, Nov. 21.
Chair construction. K. Lutes. 2,530,474, Nov. 21.
Chair cover. G. H. Holsinger. 2,531,047, Nov. 21.
Chair for invalids, Walking. O. R. Schwantes. 2,530,544, Nov. 21.
Change maker. C. G. Emerson and L. R. Cook. 2,530,865, Nov. 21.
Checking device, Merchandise. P. B. Jeffers. 2,531,051, Nov. 21.
Cheese modifying enzyme product. M. G. Farnham. 2,531,329, Nov. 21.
Chemical apparatus. M. H. Kotzebue. 2,530,527, Nov. 21.
Child's seat. A. H. Nelson, Jr. 2,530,900, Nov. 21.
Chilling mixtures. J. R. Martin. 2,530,976, Nov. 21.
Chuck actuating mechanism, Nailing. G. C. Paxton. 2,530,629, Nov. 21.
Cigarette holder. G. B. Ducot. 2,530,688, Nov. 21.
Circuit: *See*—
Bistable semiconductor multivibrator circuit. Motor control circuit.
Electric control circuit. Stabilized frequency divider circuit.
Electrical control circuit.
Frequency shift oscillator circuit.
Circuit and tube socket assembly, Radio frequency tuned. S. Y. White. 2,530,639, Nov. 21.
Circuit arrangement for frequency controls. E. Scholten. 2,531,301, Nov. 21.
Circuit arrangement, Reactance tube. G. Hepp. 2,530,611, Nov. 21.
Circuit breaker double interlock mechanism, Reciprocal dual. E. A. Pifke. 2,531,157, Nov. 21.
Circuit breaker, Temperature sensitive. R. A. Doak. 2,531,115, Nov. 21.
Circuit interrupter. B. P. Baker and J. E. Schrameck. 2,530,933, Nov. 21.
Circuit interrupter. F. J. Fry. 2,530,952, Nov. 21.
Circuit interrupter embodying polytetrafluoroethylene. A. P. Strom and J. J. Berberich. 2,531,007, Nov. 21.
Circuit interrupter with arc extinguishing shunt. T. E. Browne, Jr. 2,530,939, Nov. 21.
Circuits for intermodulation measurements, Measuring. L. Blok. 2,530,596, Nov. 21.
Circuits for radar systems, Electronic control. O. E. De Lange. 2,531,201, Nov. 21.
Clamp: *See*—
Welding clamp.
Clamp for car-top carriers, Bumper attachment. C. E. Burkey. 2,531,107, Nov. 21.
Clamping device. G. L. McFarland. 2,531,147, Nov. 21.
Clamping device, Cable. F. V. Slaker. 2,531,003, Nov. 21.
Clasp, Garment. J. R. Andrus. 2,531,244, Nov. 21.
Cleaner: *See*—
Vacuum cleaner.
Cleaner having a washable inner lining, Pouch type golf ball. J. K. Wetherby. 2,530,746, Nov. 21.
Clicker mechanism for spindles. H. W. Batcheller. 2,531,246, Nov. 21.
Clip for pens and pencils. W. A. Davis. 2,531,113, Nov. 21.
Clothespin-receptacle suspension. F. S. Kralovic. 2,531,058, Nov. 21.
Clutch: *See*—
Axially engaging positive clutch. Variable speed hydraulic clutch.
Clutch control. A. W. Ofeldt. 2,530,904, Nov. 21.
Clutch unit, Friction. J. L. Grundon. 2,530,460, Nov. 21.
Coaster brake. H. K. Gleasman. 2,530,764, Nov. 21.
Coat hanger. H. M. Paulsen. 2,531,293, Nov. 21.
Coating material emulsions. L. Auer. 2,530,370, Nov. 21.
Coating materials, Preparing electron-emissive. E. F. Lowry and H. H. Homer. 2,531,339, Nov. 21.
Coating metal surfaces. C. I. Spessard. 2,530,738, Nov. 21.
Coil, Compensating. C. A. Atwell and R. H. Wagner. 2,530,932, Nov. 21.
Coincidence proportional counter. J. H. Manley. 2,531,144, Nov. 21.
Collar for hanging flower pots. R. M. Fracchia. 2,530,456, Nov. 21.
Color device for utilizing control signals. C. E. Huffman. 2,530,431, Nov. 21.
Comb. I. E. Herts. 2,530,612, Nov. 21.
Comb and brush combination. F. L. Twitty. 2,531,239, Nov. 21.
Comb, Musical. F. Gretsch, Jr. 2,531,212, Nov. 21.
Communication system, Short-wave, long distance. R. Villem. 2,530,926, Nov. 21.
Communication system, Vernier pulse code. A. J. Rack. 2,530,538, Nov. 21.
Complex inorganic compounds and application thereof, Production of. H. R. Frisch. 2,530,458, Nov. 21.
Compressor. O. R. and A. H. Stephenson. 2,530,551, Nov. 21.
Concrete pipe machine, Packer head. W. B. Dixon. 2,530,687, Nov. 21.
Condensation of acyl polymers with aromatic hydrocarbons. E. Lieber and A. F. Cashman. 2,531,063, Nov. 21.
Connector: *See*—
Battery connector. Terminal connector.
Battery terminal connector. Wrist watch connector.
Constant factor means. H. Gang. 2,531,205, Nov. 21.

Constructing high chair trays. R. R. Smith. 2,530,667, Nov. 21.
Container: *See*—
Dispensing container. Paper container.
Container. A. H. Warth. 2,530,413, Nov. 21.
Container and applicator for small articles. S. E. Pate. 2,531,152, Nov. 21.
Container and display insert. J. D. Clarke. 2,531,255, Nov. 21.
Container and server, Cake. F. C. Schnabel. 2,530,910, Nov. 21.
Containers filled with liquids or pastes, Production of. L. Rado. 2,530,400, Nov. 21.
Continuous sample collecting device. F. T. Hall. 2,530,463, Nov. 21.
Control apparatus. W. H. Kliever. 2,530,775, Nov. 21.
Control apparatus. R. F. Wild. 2,530,928, Nov. 21.
Control arrangement for refrigerating systems. L. M. Kurtz. 2,531,136, Nov. 21.
Control device with impulse drive. M. N. Yardeny, R. Bernas, and S. Goldberg. 2,530,749, Nov. 21.
Control for air conditioning systems. W. J. Hajek. 2,531,037, Nov. 21.
Control for cutting machines. A. H. Hermann. 2,530,880, Nov. 21.
Control for heating systems, Automatic. H. Baxter and J. L. Markis. 2,530,563, Nov. 21.
Control for ice-cream freezers. S. J. Mikina. 2,530,981, Nov. 21.
Control for water heaters, Automatic. W. R. Weeks. 2,531,180, Nov. 21.
Control for zone heating systems. J. L. Markis and H. Baxter. 2,530,581, Nov. 21.
Control means. K. A. Doutt. 2,531,033, Nov. 21.
Control system for aircraft, Radiant energy. R. S. Pizer. 2,530,725, Nov. 21.
Control system for synchronous motors, Starting. W. Schaelchlin. 2,530,997, Nov. 21.
Control system for window heaters. C. L. Mershon. 2,530,980, Nov. 21.
Conveyer with toggle locking feed dog. S. J. Wallace. 2,530,412, Nov. 21.
Cooker. M. M. Guggenheim. 2,530,519, Nov. 21.
Cooler with gasket insulated top, Ice type water. F. G. Kovacs and F. A. Seidler. 2,531,223, Nov. 21.
Copyholder. H. L. Johnson. 2,530,702, Nov. 21.
Core analysis. A. L. Smith. 2,531,083, Nov. 21.
Cornice for draperies and the like, Adjustable. N. Cline. 2,530,567, Nov. 21.
Coupling and switch actuator, Combined adjustable. W. M. Mack. 2,530,709, Nov. 21.
Coupling for armored cable. B. J. Donohue, Jr. 2,530,381, Nov. 21.
Cover: *See*—
Chair cover.
Cover for beehives, Ventilated, insulated. H. Babcock, Jr. 2,530,801, Nov. 21.
Covers for bus bars, Making insulating. G. J. Muller. 2,530,835, Nov. 21.
Crab trap. E. L. Bush. 2,530,449, Nov. 21.
Crate. O. F. Arthur. 2,530,797, Nov. 21.
Crate, Milk. W. L. Rawn, Jr. 2,530,481, Nov. 21.
Cultivator, Flame. P. C. McLemore. 2,530,894, Nov. 21.
Culturing apparatus. F. K. Chandler. 2,530,597, Nov. 21.
Cup for grease fittings. P. J. Marchelewicz. 2,530,888, Nov. 21.
Cup, Test. E. J. Gierl. 2,531,266, Nov. 21.
Current collector of the pantograph type. R. O. Heinemann. 2,530,963, Nov. 21.
Current regulator tube. A. De Graaff. 2,530,686, Nov. 21.
Cushioned magnetic switch. H. L. Bradley. 2,531,025, Nov. 21.
Cutter. O. E. Staples. 2,530,550, Nov. 21.
Cutter: *See*—
Ensilage cutter.
Cutter and juicer, Fruit. A. Cadella. 2,531,026, Nov. 21.
Cutters, Manufacturing. O. E. Staples. 2,530,549, Nov. 21.
Cutting apparatus, Floor tile. H. T. Melchor. 2,531,149, Nov. 21.
Cutting machine, Venetian blind tape. D. B. Brownlow and J. J. Markoski. 2,530,420, Nov. 21.
Cycle system, Reversible. G. E. Clancy. 2,530,681, Nov. 21.
Cyclopentene, Production of. G. C. Ray. 2,530,727, Nov. 21.
Cylinder lock operating connection. E. N. Jacobi. 2,530,469, Nov. 21.
Defluorinating phosphatic material. E. J. Maust. 2,531,068, Nov. 21.
Defluorination of phosphate rock. C. A. Hollingsworth. 2,531,046, Nov. 21.
Defrosting system for refrigerating apparatus. O. J. Nussbaum. 2,530,440, Nov. 21.
Dehairing machine. W. Gilbert. 2,531,209, Nov. 21.
Dehumidifier for vending machines. P. L. Sommer. 2,531,084, Nov. 21.
Demagnetization of electromagnetic recording heads. W. F. Lootens. 2,531,141, Nov. 21.
Desk and seat, Folding. L. J. Rocca. 2,530,785, Nov. 21.
Detachable setting. M. Imowics. 2,530,432, Nov. 21.
Detergent concentrate. C. M. Shaw. 2,531,166, Nov. 21.
Dethiolizing of hydrocarbons by means of ethylene oxide. G. B. Arnold and H. V. Hess. 2,530,561, Nov. 21.
Detonation indicating apparatus. D. F. Alexander. 2,530,931, Nov. 21.
Device for applying sheet material to cylindrical articles. F. C. Worth. 2,531,314, Nov. 21.
Device for arresting a shaft. J. M. Unk. 2,530,795, Nov. 21.
Device for binding cables onto loads of material. L. A. Hendrickson. 2,530,879, Nov. 21.
Device for cleaning fish. R. H. Lindsey. 2,531,064, Nov. 21.
Device for directly detecting, measuring, and utilizing for the purpose of control, variations in speed. L. E. W. Montrose-Oster. 2,530,717, Nov. 21.
Device for flushing toilets, Foot-operated. W. and E. E. Rothe. 2,530,482, Nov. 21.
Device for guiding and landing aircraft by means of decimetric radio waves. H. Gutton and J. J. Hugon. 2,530,604, Nov. 21.
Device for immobilizing a piece with respect to another one in at least one predetermined position. H. R. Bruet and T. Lafitte. 2,531,198, Nov. 21.
Device for indicating variations in thread tension in sewing machines. L. Roseman. 2,530,841, Nov. 21.
Device for processing yogurt. A. Steinberg. 2,531,237, Nov. 21.
Device for very high frequencies comprising a lead-through conductor carrying high-frequency energy. E. G. Dorgelo. 2,530,603, Nov. 21.
Dialkyl acetic acids and related compounds, Making. E. L. Pelton and A. A. Holzschuh. 2,531,363, Nov. 21.
Dichloroethylene/isobutylene interpolymers, Asymmetrical. M. M. Brubaker and R. A. Jacobson. 2,531,197, Nov. 21.
Die-casting machine. W. Coulthard. 2,530,760, Nov. 21.
Diesel engine idling control. F. A. Thaheld. 2,530,741, Nov. 21.
Dimethyl phthalate solution of acetyl peroxide as catalyst for trifluorochloroethylene polymerization. E. L. Kropa and J. J. Padbury. 2,531,134, Nov. 21.
Diphenyl amine derivatives. A. L. Hollis. 2,530,769, Nov. 21.
Direct current flat card resolver. R. Murdick. 2,531,150, Nov. 21.
Direct-current generator. J. D. Miner, Jr. 2,530,982, Nov. 21.
Disk for shuffleboard tables, Magnetic. C. Metz. 2,530,896, Nov. 21.
Dispenser: *See*—
Powder dispenser.
Dispensing apparatus for plastic sealing compositions. W. F. Middlestadt. 2,530,777, Nov. 21.
Dispensing apparatus, Merchandise. M. H. Voigtritter. 2,531,347, Nov. 21.
Dispensing container. T. H. Richter. 2,530,730, Nov. 21.
Dispensing container. H. C. Schloer. 2,531,300, Nov. 21.
Display device. C. M. and M. W. Sisk. 2,531,002, Nov. 21.
Display device, Animated. A. E. Reitz. 2,530,729, Nov. 21.
Display device, Bubbling fluid ornamental. A. Tiscione. 2,530,794, Nov. 21.
Display device, Collapsible cardboard. L. Ebert and R. Benchley, Jr. 2,530,950, Nov. 21.
Disproportionation of alkoxysilanes. C. R. Hance and G. H. Wagner. 2,530,367, Nov. 21.
Dissolving device for multiple projectors. C. M. Young. 2,530,417, Nov. 21.
Dithiocyanates. E. E. Stahly. 2,530,408, Nov. 21.
Doll, Dancing. L. P. Genone. 2,530,610, Nov. 21.
Doll, Walking. J. E. Henderson. 2,530,696, Nov. 21.
Door: *See*—
Automatic door.
Door and movable stairway combination, Coacting. F. W. Fink and L. E. Morgan. 2,531,263, Nov. 21.
Door frame construction, Metal. K. H. Miller. 2,531,075, Nov. 21.
Door operating mechanism. E. S. Pringle. 2,530,629, Nov. 21.
Double-acting internal-combustion engine. R. H. Jones, Jr. 2,530,970, Nov. 21.
Doughnut machine. P. J. Toews. 2,530,920, Nov. 21.
Dowel bar and shielded bearing, Sealed. J. N. Heltzel. 2,531,040, Nov. 21.
Draft gear. M. P. Blomberg. 2,530,756, Nov. 21.
Drain, Extension. W. C. Moore. 2,531,288, Nov. 21.
Draperies. C. Bashwiner. 2,530,593, Nov. 21.
Drawing or sketching board. A. J. Ensor. 2,530,605, Nov. 21.
Driving mechanism. M. Anderson. 2,531,098, Nov. 21.
Dry shaving apparatus. G. Barsch. 2,531,191, Nov. 21.
Drying furnace. D. J. McGowan, A. F. Haller, and L. L. Hebberd. 2,531,148, Nov. 21.
Dual flowing device. O. Cranfill. 2,531,258, Nov. 21.
Editing and inspection of invisible sound tracks. D. L. Blaney. 2,530,564, Nov. 21.
Egg material, Manufacture of dried. W. J. Patterson. 2,531,343, Nov. 21.
Egg rearranging and feeding device. C. Page. 2,531,292, Nov. 21.
Ejecting mechanism for slug casting machines. R. H. Turner. 2,531,311, Nov. 21.
Electric air circulating oil well heater. J. S. Young. 2,530,445, Nov. 21.
Electric bath. R. Rouat. 2,530,442, Nov. 21.
Electric control circuit. G. H. Pohm. 2,530,784, Nov. 21.
Electric discharge device. L. R. Peters. 2,530,990, Nov. 21.

Electric discharge device for the amplification of short waves. K. S. Knol and A. van der Ziel. 2,531,277, Nov. 21.
Electric iron. D. C. Gerber. 2,530,657, Nov. 21.
Electric motor. J. W. Hibbert, A. T. Robertson, and C. Beveridge. 2,531,044, Nov. 21.
Electric power source. W. P. Mason. 2,531,230, Nov. 21.
Electric space heater. A. M. Boxrud. 2,530,806, Nov. 21.
Electric switch. J. W. Lawson and W. E. Brown. 2,531,377, Nov. 21.
Electric switch. E. Scheuermeyer. 2,531,165, Nov. 21.
Electrical conductors, Making insulated. M. M. Sprung. 2,531,169, Nov. 21.
Electrical connector plug. J. E. Wilson. 2,530,415, Nov. 21.
Electrical control circuit. P. Glass. 2,531,211, Nov. 21.
Electrical control device. M. N. Yardeny and A. Razdowitz. 2,530,642, Nov. 21.
Electrical control system. H. Klemperer. 2,530,705, Nov. 21.
Electrical device for repeating or transmitting angular displacements. C. H. H. Rodanet. 2,530,992, Nov. 21.
Electrical panel board switch. Z. R. Stanley. 2,530,548, Nov. 21.
Electrical resistance measurement. S. M. Marco and W. L. Davis. 2,531,145, Nov. 21.
Electrical resonator. N. L. Harris and J. W. Ryde. 2,531,214, Nov. 21.
Electrode coating for discharge devices. E. F. Lowry, E. L. Mager, and G. W. Keilholtz. 2,530,394, Nov. 21.
Electrographic recording. R. B. Gibney. 2,530,956, Nov. 21.
Electron accelerating apparatus. N. C. Christofilos. 2,531,028, Nov. 21.
Electron discharge device employing cavity resonator. L. F. Broadway. 2,531,195, Nov. 21.
Electron emitter, Secondary. L. E. Cheesman and H. E. Mendenhall. 2,530,946–7, Nov. 21.
Electron injection space discharge device. A. M. Clogston. 2,530,948, Nov. 21.
Electronic apparatus. R. M. Franzel. 2,531,265, Nov. 21.
Electronic control system for direct-current motors. W. G. Roman. 2,530,993, Nov. 21.
Electronic control system for dynamoelectric machinery. W. G. Roman. 2,530,994, Nov. 21.
Electronic device, Ultra high frequency. A. E. Bowen. 2,530,373, Nov. 21.
Electronic system for energizing direct current motors from an alternating current supply. W. W. Cotner. 2,530,949, Nov. 21.
Electrophoretic deposition of ethylene polymers. A. G. Gray. 2,530,366, Nov. 21.
Electrophoretic deposition of insulating coating. J. M. Snyder. 2,530,546, Nov. 21.
Elevating particle-form solids with bucket conveyer. E. V. Bergstrom. 2,531,192, Nov. 21.
Embossing machine drive. H. Eberhardt. 2,530,425, Nov. 21.
Emulsifier consisting of alkyloiamine-fatty acid condensation products and esters of polyglycols. O. J. Ackelsberg. 2,531,190, Nov. 21.
Engine: *See*—
Double-acting internal-combustion engine.
Engine fuel control, Free piston. L. J. Garday. 2,531,331, Nov. 21.
Engine lubricating apparatus. A. T. Briggs. 2,531,319, Nov. 21.
Engine or turbine, Rotary. J. Udeiman. 2,530,925, Nov. 21.
Engine starter. S. Gilbert. 2,530,869, Nov. 21.
Engine starter. A. M. Madlé. 2,530,475, Nov. 21.
Engine with opposed pistons, Internal-combustion. R. Laraque. 2,530,884, Nov. 21.
Ensilage cutter. C. J. Heimark. 2,530,466, Nov. 21.
Erythemal meter. H. S. Scott. 2,531,000, Nov. 21.
Escapement device. R. P. Jaccard. 2,531,273, Nov. 21.
Esters of sulfur-containing polycarboxylic acids. J. T. Gregory and J. E. Jansen. 2,530,872, Nov. 21.
Exerciser, Push-and-pull. M. S. Tougas. 2,530,921, Nov. 21.
Extensible gate. H. H. Tonn. 2,531,310, Nov. 21.
Exterminating device, Insect. J. E. McElreath. 2,530,893, Nov. 21.
Extraction of sulfuric acid sludge. D. W. Branaky and N. E. Lemmon. 2,530,757, Nov. 21.
Extrusion apparatus. K. F. Thornton and L. W. Schumm. 2,530,669, Nov. 21.
Extrusion machine, Continuous. W. H. Bonham. 2,530,503, Nov. 21.
Eyeletting machine. S. L. Gookin. 2,530,575, Nov. 21.
Fastener: *See*—
Hook fastener.
Turnable T-member type folding fastener.
Fastener setting machine with depressible work-supporting members. E. Diamond. 2,530,380, Nov. 21.
Fastener with tensioning member, T-head molding. W. H. Churchill. 2,531,351, Nov. 21.
Fastening device. L. H. Flora. 2,531,264, Nov. 21.
Fastening device. L. C. Huck. 2,531,048–9, Nov. 21.
Fastening for bracelet-watch straps. E. Kehrer. 2,531,053, Nov. 21.
Feed chuck. A. J. Daddona. 2,530,568, Nov. 21.
Feeder: *See*—
Carton blank feeder.
Feeder for powder compressing machines, Sifting. L. H. Bailey. 2,531,245, Nov. 21.
Fertilizer block for fertilizing plant life in fishing waters. A. H. Martin. 2,531,360, Nov. 21.
Filing device. F. H. Clark, B. M. Hager, and O. J. Larson. 2,530,566, Nov. 21.
Filing means, Record. H. V. Emblen and M. D. Baker. 2,530 604, Nov. 21.
Film projecting apparatus. W. F. Bohl, Jr. 2,530,936, Nov. 21.
Filter: *See*—
Moist air filter. Wave filter.
Fire extinguisher. I. Nurkiewicz. 2,530,583, Nov. 21.
Fire extinguisher, Portable fog type. L. H. Smith. 2,531,366, Nov. 21.
Fire extinguisher, Portable hand. A. B. Guise and T. W. Johnson. 2,531,123, Nov. 21.
Fire extinguisher, Pyrotechnic-operated. E. R. Scholz. 2,530,633, Nov. 21.
Fish landing grip. S. J. Sicotte. 2,531,235, Nov. 21.
Fish spear, Power. F. W. Johnson. 2,530,434, Nov. 21.
Fixture, Fluorescent lighting. S. R. Naysmith. 2,531,232, Nov. 21.
Flagpole. R. Ellis. 2,530,654, Nov. 21.
Flame forming corundum styles, Method of an apparatus for. R. M. Gage. 2,530,692, Nov. 21.
Flash lamp. J. Kaplan. 2,531,220, Nov. 21.
Flashlight switch operating mechanism. E. H. Brill, 2,530,505, Nov. 21.
Flatwork washer. O. S. Vigerust. 2,530,494, Nov. 21.
Foldable rack. S. M. Scherstubl. 2,530,632, Nov. 21.
Folded shirt and collar protector. S. Lighter. 2,530,885, Nov. 21.
Follow-up system, Two wire. M. N. Yardeny, R. Bernas, and S. Goldberg. 2,530,750, Nov. 21.
Food freezing apparatus. J. L. Gilson. 2,531,210, Nov. 21.
Forceps, Dental. R. E. Hawkinson. 2,531,126, Nov. 21.
Fork with gripping means, Lifting. V. H. Cartwright. 2,530,375, Nov. 21.
Formation of shaped articles from acrylonitrile polymers. W. A. Hare. 2,530,962, Nov. 21.
4-aminobenzal-thiosemicarbazone, Manufacture of. R. Hirt. 2,530,430, Nov. 21.
Fractionation of tall oil. R. M. Christenson and S. W. Gloyer. 2,530,809, Nov. 21.
Frame: *See*—
Adjustable hacksaw frame. Motor frame.
Bingo game frame.
Frame structure for suitcases, Interchangeable. F. Schwennicke. 2,531,302, Nov. 21.
Frame structure for turbine-generator prime movers. F. H. Van Nest. 2,531,178, Nov. 21.
Freezing apparatus. T. W. Tharaldsen. 2,531,087, Nov. 21.
Frequency modulator. J. R. Boykin. 2,530,937, Nov. 21.
Frequency responsive protective arrangement for ultra high frequency systems. M. D. Fiske. 2,531,122, Nov. 21.
Frequency shift oscillator circuit. R. W. Beckwith. 2,531,103, Nov. 21.
Friction drive rubber track. L. C. Daniels. 2,531,111, Nov. 21.
Friction mechanism with clearance adjuster. R. H. Meador, Jr. 2,531,341, Nov. 21.
Front end implement supporting and adjusting mechanism. A. G. Gurries. 2,530,577, Nov. 21.
Fuel injection apparatus and control. J. F. Campbell. 2,530,507, Nov. 21.
Fuel injection pump. D. J. Deschamps. 2,531,202, Nov. 21.
Fuel servicing unit, Airplane. J. V. Short. 2,531,001, Nov. 21.
Fuel supply system for continuous combustion turbine type aircraft. F. H. Carey. 2,530,649, Nov. 21.
Fungicidal composition. S. L. Hopperstead. 2,530,770, Nov. 21.
Furnace: *See*—
Drying furnace. Tile furnace.
Magazine feed furnace.
Furnace burner mount. E. R. Downe. 2,531,261, Nov. 21.
Fuse, Mechanical time. J. Fink. 2,531,121, Nov. 21.
Game apparatus, Baseball. J. L. Keller. 2,530,526, Nov. 21.
Garden hose holder. A. N. Grotz. 2,530,873, Nov. 21.
Garment. E. Buchler. 2,530,647, Nov. 21.
Garment. M. R. Farrington. 2,530,606, Nov. 21.
Garment, Baby. M. L. Neal. 2,530,719, Nov. 21.
Garment, Ladies'. A. Licht. 2,530,829, Nov. 21.
Gas-solid contact apparatus. K. M. Watson. 2,530,558, Nov. 21.
Gasoline, Production of desulfurized. A. L. Johnson, E. G. Carlson, and F. E. Blasca. 2,530,701, Nov. 21.
Gate: *See*—
Extensible gate.
Gate for cranberry bogs and the like, Flume. P. J. Whipple. 2,530,747, Nov. 21.
Gauge: *See*—
Wheel gauge.
Gauge chuck. R. K. Boyer. 2,530,504, Nov. 21.
Gear: *See*—
Draft gear.

Gear-tooth rotary pump. W. W. Hamill. 2,530,767, Nov. 21.
Gearing, Epicyclic variable speed. W. Brown. 2,530,646, Nov. 21.
Generation of chlorine dioxide. W. S. Hutchinson. 2,530,468, Nov. 21.
Generator: *See*—
Direct-current generator. Thermoelectric generator.
Generator control system. A. W. Paulson. 2,530,398, Nov. 21.
Glass severing means and process. E. Danner. 2,530,511, Nov. 21.
Glazing bar. A. Marsh. 2,531,229, Nov. 21.
Golf ball teeing machine. B. A. Hogeberg. 2,530,698, Nov. 21.
Golf club, Combination. J. A. Beardsley. 2,530,446, Nov. 21.
Governor, No load speed. F. A. Harvey. 2,531,335, Nov. 21.
Grate, Gas cookstove burner. H. M. Reeves. 2,530,991, Nov. 21.
Grease gun loading device. C. I. and C. E. Cederholm. 2,530,944, Nov. 21.
Grinder, Crankshaft. H. T. Rutherford. 2,531,160–1, Nov. 21.
Grinder, Crankshaft. H. T. Rutherford. 2,531,163, Nov. 21.
Grinder, Matched edge lawn mower. H. Pater and F. Bruckmeier. 2,530,479, Nov. 21.
Grounding cables. R. R. Wisner. 2,531,183, Nov. 21.
Guide for the blind, Writing. R. A. Marks. 2,530,437, Nov. 21.
Gun assembly, Perforating. R. A. Lillich. 2,530,707, Nov. 21.
Gun, Casing perforating. J. A. Bond. 2,530,805, Nov. 21.
Gun perforator. P. W. Martin. 2,530,833, Nov. 21.
Gun perforator. J. O. Tow. 2,530,844, Nov. 21.
Hair shaper. D. Taylor. 2,530,917–8, Nov. 21.
Hair waving device. J. Newmark. 2,530,662, Nov. 21.
Handle and screen casing support for portable picture screens, Operating. J. T. Heck, L. J. Du Mais, and C. O. Talbot. 2,530,878, Nov. 21.
Handle for controllers, Safety. H. C. Krapf and P. L. Vollmer. 2,530,974, Nov. 21.
Hanger: *See*—
Adjustable garment hanger. Painter's scaffold hanger.
Coat hanger. Picture hanger.
Hardenable cast iron. F. G. Sefing. 2,530,545, Nov. 21.
Harp, Lamp. K. Berger. 2,531,023, Nov. 21.
Harvester, Beet. T. W. Bohmker, C. W. Wals, and J. H. Clark. 2,531,193, Nov. 21.
Harvester, Moving comb type cotton. S. W. Shelley. 2,530,405, Nov. 21.
Harvester, Pneumatic cotton. R. Henry. 2,531,041–2, Nov. 12.
Head mount, Multiple magnetic. F. E. Pontius. 2,530,584, Nov. 21.
Hearing aid with inductive pick-up for telephone reception, Wearable. S. F. Lybarger. 2,530,621, Nov. 21.
Heater: *See*—
Electric air circulating oil wall heater. Electric space heater. Switch heater.
Heater control, Liquid. J. C. White. 2,530,638, Nov. 21.
Heater for mounting upon the exterior walls of rooms to be heated, Forced flow portable air. A. H. Steinmetz. 2,530,486, Nov. 21.
Heater or stove. S. D. Periman. 2,530,721, Nov. 21.
Heater with safety screen air inlet. R. M. Lilly and B. R. Schaparum. 2,531,139, Nov. 21.
Heating chamber, Pebble. S. P. Robinson and L. C. Bearer. 2,530,731, Nov. 21.
Heating water by electricity. O. Downs. 2,530,382, Nov. 21.
Heel breasting machine. P. White and F. B. Keail. 2,530,590, Nov. 21.
Heel, Cushion. P. Maass. 2,530,395, Nov. 21.
Hoist bracket. W. A. Duffey. 2,530,452, Nov. 21.
Hoist, Builder's. O. Schuchert. 2,531,346, Nov. 21.
Hoist, Cableway. N. S. Bateman and M. F. Missiaen. 2,531,022, Nov. 21.
Hoisting and launching means for boats. G. B. Post. 2,530,840, Nov. 21.
Holder: *See*—
Bucket holder. Nursing bottle holder.
Cigarette holder. Stylus holder.
Garden hose holder. Surface mounted jar holder.
Key holder.
Needle holder. Tree holder.
Holder and camera support, Combined floodlight. A. Secosky and M. A. Meisel. 2,530,912, Nov. 21.
Holder and support, Bulletin sheet. C. G. Hubbell. 2,530,821, Nov. 21.
Holder attachment for culinary vessels, Spoon. W. F. Kenly. 2,530,470, Nov. 21.
Holder for combs. L. T. Sawyer. 2,530,542, Nov. 21.
Holder for instruments, Safety. W. H. Fraser. 2,530,608, Nov. 21.
Holster, Firearm. J. O. Tackett. 2,531,170, Nov. 21.
Honing method and apparatus. M. C. Hutto. 2,530,615, Nov. 21.
Hook fastener. L. S. Girard. 2,530,518, Nov. 21.
Hopper vertically adjustable for sealing contact with cover. A. R. Smith. 2,531,305, Nov. 21.
Hose supporter. L. F. Atchley. 2,530,850, Nov. 21.
House, Animal. H. S. Shannon. 2,530,485, Nov. 21.
Hull form for speedboats. J. Napoli. 2,530,718, Nov. 21.
Humidifier and filter, Air. H. S. Mulhollen. 2,530,533, Nov. 21.
Hydraulic mechanism. M. A. Mathys. 2,531,340, Nov. 21.
Hydrocarbon conversion. T. D. Pickell. 2,531,294, Nov. 21.
Hydrocarbon conversion process. L. P. Evans. 2,531,350, Nov. 21.
Hydrocarbon synthesis process, Fluidized. H. Z. Martin. 2,530,977, Nov. 21.
Hydrogen cyanide, Production of. D. R. Merrill and W. A. Perry. 2,531,287, Nov. 21.
Hydrophyllic colloids, Plasticized. H. A. Molteni. 2,530,439, Nov. 21.
Hydroxy ester anhydride copolymer. H. F. Minter. 2,530,983, Nov. 21.
Icer for bakery products. N. W. Walker. 2,531,093, Nov. 21.
Igniter for gaseous fuel, Electric. S. J. Lakota and T. E. Rudiselle. 2,530,827, Nov. 21.
Igniter, Mechanical. H. Koesten. 2,531,056, Nov. 21.
Implement, Cleaning. L. Seewald. 2,531,304, Nov. 21.
Implement, Planting. J. J. Rose. 2,531,297, Nov. 21.
Impregnating carbon brushes. L. E. Moberly. 2,530,984, Nov. 21.
Incendiary composition. W. F. Van Loenen. 2,530,489, Nov. 21.
Incendiary composition. W. F. Van Loenen. 2,530,491, Nov. 21.
Incendiary compositions, Making. W. F. Van Loenen. 2,530,490, Nov. 21.
Incendiary compositions, Making. W. F. Van Loenen. 2,530,492, Nov. 21.
Incision spreader. A. Thomson and G. D. Buffington. 2,531,171, Nov. 21.
Indenes, Producing. W. E. Elwell. 2,531,328, Nov. 21.
Indicating apparatus for load compensating fluid pressure brake equipment. E. E. Hewitt. 2,531,043, Nov. 21.
Indicator: *See*—
Weighing scale indicator.
Indicator for cameras, Film position. C. W. Crumrine. 2,530,510, Nov. 21.
Indicator plotting board for loran navigation, Electrical. J. W. Gray. 2,530,428, Nov. 21.
Indicator system, Tuning. H. T. J. Wiegerinck and J. H. van Wageningen. 2,530,847, Nov. 21.
Injection means, Fluid actuated. L. J. Garday. 2,531,332, Nov. 21.
Injection means, Fluid actuated. L. J. Garday and R. A. Lasley. 2,531,330, Nov. 21.
Inking device for typewriters. R. H. Higgins. 2,530,697, Nov. 21.
Inking machine, Semiautomatic sole-edge. E. J. Ray. 2,530,585, Nov. 21.
Insecticidal compositions comprising heat-treated hexaethyl tetraphosphate. M. N. Dvornikoff. 2,531,354, Nov. 21.
Instrument and making same, Multiple holder writing. E. B. Nichols. 2,530,901, Nov. 21.
Instrument, Electrical phase measuring. D. A. Young, B. E. Lenehan, and H. F. Bush. 2,531,018, Nov. 21.
Instrument enclosure, Electrical. J. F. Chapman and K. Riesz. 2,530,945, Nov. 21.
Instrument for measuring, Interpolating and the like. H. J. Gerber. 2,530,955, Nov. 21.
Instrument, Surveying. A. N. Brunson. 2,531,252, Nov. 21.
Insulating hollow core conductors. C. A. Piercy and R. S. Kent. 2,531,156, Nov. 21.
Internal ring gas burner. W. E. Thompson. 2,531,015, Nov. 21.
Ion generators. D. Charles. 2,530,859, Nov. 21.
Ion trap. R. G. E. Hutter. 2,531,050, Nov. 21.
Iron: *See*—
Electric iron. Hardenable cast iron.
Iron rest. L. C. Kopisch. 2,530,471, Nov. 21.
Ironing surface for electric irons. E. A. Welland. 2,530,672, Nov. 21.
Isolation of xylene isomers. D. M. Mason. 2,530,978, Nov. 21.
Isomerization of light naphtha. B. H. Gwynn and C. W. Montgomery. 2,530,875, Nov. 21.
Isomerization of normal pentane. B. H. Gwynn and C. W. Montgomery. 2,530,874, Nov. 21.
Isophthalic acid, Preparation of. W. G. Toland, Jr. 2,531,172, Nov. 21.
Jacking structure for towers. E. A. Campbell. 2,530,807, Nov. 21.
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Joint. F. N. Bard. 2,531,020, Nov. 21.
Joint for pistons, Tight. Jean and Jerome Rodoliakis. 2,531,296, Nov. 21.
Key-frame for key-operated musical instruments. L. M. Martin. 2,530,832, Nov. 21.
Key holder. F. De Cesaris. 2,531,325, Nov. 21.
Key winder and casing for dispensing contents of collapsible tubes. H. C. Morris and J. Jacques. 2,530,476, Nov. 21.
Killing weeds. W. C. Klingel. 2,531,276, Nov. 21.
Kite. E. N. Winslow. 2,530,641, Nov. 21.

Knife sharpening apparatus for food slicing machines. G. R. Wood. 2,531,184, Nov. 21.
Knitting machine. A. Shortland. 2,530,790, Nov. 21.
Label feeding machine. G. W. von Hofe. 2,530,670, Nov. 21.
Laminating walls. F. Hobbs. 2,531,128, Nov. 21.
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Lapping machine. E. Dickinson. 2,530,424, Nov. 21.
Latch structure for merchandise receptacles. W. A. Schneeman. 2,530,543, Nov. 21.
Lathe, Automatic. G. E. Cuttat. 2,530,813, Nov. 21.
Lawn sprinkler system. M. Becker. 2,531,101, Nov. 21.
Leather substitute. H. A. Reinhardt and T. T. Harrison. 2,530,441, Nov. 21.
Lenses, Anastigmatic. W. W. Mertè. 2,530,397, Nov. 21.
Lifting mechanism. O. C. K. Hutchinson. 2,530,771, Nov. 21.
Light fixtures for tubular fluorescent lamps, Electric. N. Neuman. 2,530,582, Nov. 21.
Limit stop for parallelogram mechanisms. J. R. Picon. 2,530,782, Nov. 21.
Line pressure lubricated plug valve. A. S. Volpin. 2,530,744, Nov. 31.
Linear actuator. C. E. Gossling. 2,530,871, Nov. 21.
Liquid cooling apparatus. J. Wyllie, Jr. 2,531,315, Nov. 21.
Liquid discharging and collecting apparatus for cleaning. L. F. Thompson. 2,531,370, Nov. 21.
Liquid level indicating means. W. H. Kliever. 2,530,619, Nov. 21.
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Load balancing system for dynamoelectric machines. A. F. Kenyon. 2,530,972, Nov. 21.
Load limiting means for use with refrigeration and other valves. H. T. Lange. 2,530,706, Nov. 21.
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Loading freight cars, Method and apparatus for. A. E. Woods. 2,530,444, Nov. 21.
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Locking device, Automatic door. F. T. Pivero. 2,530,628, Nov. 21.
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Locomotive, Tramming. A. L. Lee. 2,530,472, Nov. 21.
Log turner for portable sawmills. F. Danzer. 2,530,683, Nov. 21.
Longitudinally separable extruded thermoplastic strip and producing same. P. H. Seckel. 2,531,234, Nov. 21.
Lubricant composition composed of high-titre soap, borax, and an inorganic compound. G. H. Orozco and J. A. Henricks. 2,530,837, Nov. 21.
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Lubricating means for electric motor clutch drives. E. P. Turner and F. A. Hayes. 2,531,175, Nov. 21.
Macerator and liquifier, Food. W. Bopp. 2,531,250, Nov. 21.
Machine for applying pressure sensitive tape to conductors. J. L. Entwistle. 2,530,655, Nov. 21.
Machine for macaroni, Automatic. S. Lenner. 2,531,224, Nov. 21.
Machine for making composite structures. E. H. Schmidt. 2,530,484, Nov. 21.
Machine for performing putting-out or analogous operations on hides or skins. D. Edgar. 2,530,573, Nov. 21.
Magazine feed furnace. C. Harris. 2,530,522, Nov. 21.
Magnesium-containing incendiary composition and producing same. W. F. Van Loenen. 2,530,493, Nov. 21.
Masking device. H. W. Madison. 2,531,142, Nov. 21.
Massage, Pneumatic. G. W. Miller. 2,531,074, Nov. 21.
Mast structure. H. J. Woolslayer, E. A. Campbell, and C. Jenkins. 2,530,848, Nov. 21.
Material conveying and dumping vehicle. H. E. Getman. 2,530,574, Nov. 21.
Measuring device. A. A. Markson. 2,530,711, Nov. 21.
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Metal deactivator. J. A. Chenicek. 2,530,650, Nov. 21.
Metal to metal duplications, Manufacture of. E. P. Ruggieri. 2,530,842, Nov. 21.
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Mineral lubricating oil compositions containing dialkyldithiophosphoric acid-formaldehyde condensation products. E. O. Hook and P. H. Moss. 2,531,129, Nov. 21.
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Mixture of polyvinyl ethers with phenolacetylene resins. I. V. Runyan. 2,531,364, Nov. 21.
Modifying section for storm window frames. C. L. Webster. 2,530,846, Nov. 21.
Modulator, Grounded grid microwave. W. W. Mumford. 2,530,836, Nov. 21.
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Moisture control device for duplicating machines. F. R. Ford. 2,530,426, Nov. 21.
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Monitoring system for magnetic recording. D. L. Blaney. 2,530,562, Nov. 21.
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Multiplier entering means. H. Gang. 2,531,206, Nov. 21.
N-acetonyl-pyridinium chloride as an azo coupling component in diazotypes. A. E. Van Dormael. 2,531,091, Nov. 21.
N-acyl allothreonine esters, Production of. K. Pfister, III, and M. Tishler. 2,530,627, Nov. 21.
N-(substituted sulfonyl)-aminobenzoic acids. J. M. Sprague. 2,531,367, Nov. 21.
Navigation system. W. J. O'Brien. 2,530,903, Nov. 21.
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Neutralizer for tablet presses, static. F. A. Lobley and J. A. Foster. 2,531,338, Nov. 21.
9-[3-(2-hydroxyethylamino) - propylamino] - 2 - methoxyacridine and its production. A. R. Surrey. 2,531,013, Nov. 21.
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Notching device. T. Loew. 2,530,830, Nov. 21.
Nozzle, Flat spray. F. W. Wahlin. 2,530,671, Nov. 21.
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Oil burner. J. M. Carroll. 2,531,027, Nov. 21.
Oil cooler and air conditioning device for automotive vehicles, Combination. A. J. Audet. 2,531,019, Nov. 21.
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Operating mechanism for washing machines and the like. L. E. Deloghia. 2,531,353, Nov. 21.
Optical element, Manufacturing an. P. M. van Alphen. 2,530,742, Nov. 21.
Oscillator and oscillator-controlled relay system. W. H. Wannamaker. 2,531,313, Nov. 21.
Oscillator circuit arrangement. C. J. van Loon. 2,531,312, Nov. 21.
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Outboard motor starter. G. W. Martin. 2,530,623, Nov. 21.
Oven for baking various food products, Bake. E. H. Otto. 2,530,778, Nov. 21.
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Paper folding machine and method. L. T. Hand. 2,531,213, Nov. 21.
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Phase comparator for underwater signaling. J. G. Kreer, Jr. 2,530,528, Nov. 21.
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Phenolic condensation product. C. E. Johnson and R. C. Waugh. 2,530,772, Nov. 21.
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Radio-echo detection and location apparatus for approaching hostile craft. L. W. Alvarez. 2,530,418, Nov. 21.
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Registration and shift control means. H. Gang. 2,531,207, Nov. 21.
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Shock absorber. C. E. Tack and F. E. Bachman. 2,531,368, Nov. 21.
Shoe molded to shape of foot. F. Sherwin and A. A. Benson. 2,530,737, Nov. 21.
Shoe support. W. G. Persinger. 2,530,537, Nov. 21.
Shoulder pad. H. Lopato. 2,530,392–3, Nov. 21.
Shovel with auxiliary handle. R. G. Lubins. 2,531,227, Nov. 21.
Shutter and lens system for high-speed color cameras. R. Thomas. 2,530,793, Nov. 21.
Sickle mower, Rotary. G. W. Davis. 2,530,684, Nov. 21.
Side delivery truck tank. S. D. Hopper. 2,530,613, Nov. 21.
Sign: *See*—
Animated sign.
Sign structure. J. A. Howenstine. 2,530,525, Nov. 21.
Signal: *See*—
Polychrome beam light signal.
Signal control system, Traffic. W. C. Pennell. 2,531,153, Nov. 21.
Signal for telephone substations, Delayed audible call. S. B. Kent. 2,531,221, Nov. 21.
Signal receiving system, Panoramic. E. I. Green. 2,530,693, Nov. 21.
Signaling method and system, Secret carrier. K. L. King. 2,530,824, Nov. 21.
Signaling system, Multichannel. N. E. Lindenblad. 2,530,580, Nov. 21.
Sinker control mechanism for circular knitting machines. E. F. Miller. 2,531,073, Nov. 21.
Skate, Roller. N. M. Foulds. 2,531,357, Nov. 21.
Ski carrier and waist belt. F. R. H. Helmert. 2,530,695, Nov. 21.
Sleeping bag for infants. M. E. Haman. 2,530,464, Nov. 21.
Sleeping compartment, Car top. D. T. Cast. 2,530,450, Nov. 21.
Slide fastener lock. H. J. Modrey. 2,530,438, Nov. 21.
Snap-action control mechanism. V. F. Davis. 2,530,852, Nov. 21.
Snowplow. H. D. Callahan. 2,530,856, Nov. 21.
Socket, Fluorescent lamp. B. Fox. 2,530,607, Nov. 21.
Socket holder assembly, Flashlight lamp. J. T. Shackel. 2,530,913, Nov. 21.
Sofa having angularly adjustable ends. A. H. Hoffman. 2,531,045, Nov. 21.
Soldering method for positioning strip material. W. B. Stoddard, Jr. 2,530,552, Nov. 21.
Spectacle mounting. J. J. Gullen. 2,530,959, Nov. 21.
Speech inverter. L. Körös. 2,530,579, Nov. 21.
Spindle, Record changer. H. E. F. C. Lingenbrink. 2,530,435, Nov. 21.
Spiral flame gas burner. M. W. Kirk and H. O. Sherwood. 2,530,617, Nov. 21.
Sprayer. W. M. Vogel. 2,530,557, Nov. 21.
Spreaders for circular saw wood cutting machines. C. Galanga. 2,530,867, Nov. 21.
Spring-frame supporting bracket. H. G. Wickman. 2,530,640, Nov. 21.
Spring-hinged two-part receptacle. J. J. Lynch. 2,531,066, Nov. 21.
Sprinkler, Pattern. H. H. Owbridge. 2,530,779, Nov. 21.
Stabilized frequency divider circuit. A. H. Frederick. 2,530,427, Nov. 21.
Stacker and loader, Hay. H. R. Watson. 2,530,496, Nov. 21.
Stamp, Stencil. S. G. Collins. 2,530,378, Nov. 21.
Stand: *See*—
Portable screen stand.
Staple having a closed loop and making the same. L. B. Cook. 2,530,811, Nov. 21.
Steak treating machine. J. D. Brown. 2,531,105, Nov. 21.
Steel immune to intercrystalline corrosion, Producing stainless. F. J. Phillips. 2,531,154, Nov. 21.
Steel, Stainless. F. J. Phillips. 2,531,155, Nov. 21.
Steering means for manually propelled devices. F. Maisel. 2,530,886, Nov. 21.
Steering mechanism and switch control mounting therefor, Two-speed power. R. G. Le Tourneau. 2,531,061, Nov. 21.
Stepping device. H. Hansen. 2,530,961, Nov. 21.
Stilt, Adjustable. C. Bruno. 2,531,251, Nov. 21.
Stool, Folding. R. G. Cudini. 2,531,259, Nov. 21.
Strip and frame, Laminated tacking. V. H. Hoehn. 2,531,271, Nov. 21.
Strip casting machine. A. H. Narrow. 2,531,290, Nov. 21.
Stump eliminator. J. A. Pilgrim. 2,530,399, Nov. 21.
Stylus holder. H. A. Stamper. 2,530,739, Nov. 21.
Sulfuric acid and sodium chloride from sodium sulfate solutions, Preparation of. O. Laubl and M. Gerber. 2,531,137, Nov. 21.
Sulfuric acid recovery. M. C. Fuqua. 2,530,953, Nov. 21.
Support: *See*—
Arch support.
Shoe support.
Support and cord assembly for hand telephones. W. G. Turnbull, Jr. 2,530,556, Nov. 21.
Support and flame shield, Comb. A. Rucker. 2,531,298, Nov. 21.
Support for automobile seats and the like, Curtain wall. E. V. Allers. 2,531,096, Nov. 21.
Support for clothes hangers, Bracket type. C. J. Patt. 2,531,151, Nov. 21.
Supporting detail for flexible conductors. B. H. Carmer, Jr., and F. A. Dutra. 2,530,812, Nov. 21.
Surface mounted jar holder. T. L. Kehoe. 2,531,052, Nov. 21.
Swing, Child's. J. T. McCarty. 2,531,069, Nov. 21.
Swing joint. F. N. Bard. 2,531,021, Nov. 21.
Switch: *See*—
Cushioned magnetic switch.
Plunger type photoflash switch.
Electric switch.
Safety switch.
Electrical panel board switch.
Switch heater. W. A. Lebus. 2,530,473, Nov. 21.
Switch-over system. M. N. Yardeny and A. Razdowitz. 2,531,187, Nov. 21.
Switching device. M. N. Yardeny and R. Bernas. 2,531,186, Nov. 21.
Swiveled iron cord protector. L. Reichold and L. V. Lucia. 2,530,540, Nov. 21.
Synchronizing device. V. V. Weyant. 2,530,796, Nov. 21.
Synchronizing system, High-speed facsimile. W. G. H. Finch. 2,530,516, Nov. 21.

Synthesis of hydrocarbons. W. G. Scharmann. 2,530,998, Nov. 21.
Synthesis of oxygenated organic compounds. P. T. Parker. 2,530,989, Nov. 21.
Syringe operating device, Hypodermic. F. Harnisch. 2,531,267, Nov. 21.
System for burner cutoff and signaling means upon tank leakage. W. G. Rowell. 2,531,159, Nov. 21.
System for conducting conversions in the presence of a contact mass. T. P. Simpson, J. W. Payne, and J. A. Crowley, Jr. 2,531,365, Nov. 21.
System for dispensing measured quantities of liquefied gas. O. A. Hansen. 2,530,521, Nov. 21.
System for synchronizing the supplying of demodulation carrier currents. K. L. King. 2,530,825, Nov. 21.
System of polarizing relays. A. J. McConnell. 2,531,146, Nov. 21.
Table: *See*—
Vertically adjustable table.
Take-off mechanism. H. W. Protseller. 2,530,589, Nov. 21.
Tank: *See*—
Side delivery truck tank.
Tank for motor vehicles, Saddle. B. Hamlin. 2,530,819, Nov. 21.
Tank with rotatable film carrier, Film developing. R. I. Salzman. 2,530,734, Nov. 21.
Teeth setting machine. B. N. and J. B. Engle. 2,530,690, Nov. 21.
Telephone substation coupler for conversation recording. R. R. Galbreath. 2,531,203, Nov. 21.
Telephone system employing finder switches for connecting calling lines to numerical switches. G. T. Baker. 2,530,802, Nov. 21.
Telephone system, Intercommunicating. G. H. Duhnkrack. 2,530,943, Nov. 21.
Telephone system, Relay automatic. J. H. Voss and R. W. Jones. 2,530,845, Nov. 21.
Television device for recording motion-pictures thereof. H. G. de France and R. Bocquel. 2,531,031, Nov. 21.
Tent. R. T. Greenup. 2,530,765, Nov. 21.
Terephthalic acid, Preparation of. W. G. Toland, Jr. 2,531,173, Nov. 21.
Terminal connector. W. S. Thomas. 2,531,309, Nov. 21.
Testing machine for the pulsatory testing of test specimens, Hydraulic. M. Russenberger. 2,530,483, Nov. 21.
Textile materials made mildew resistant with di-(4-hydroxychlorophenyl) dimethyl methane. W. D. Stewart and J. H. Standen. 2,530,792, Nov. 21.
Therapeutic preparations for intramuscular and subcutaneous injection and making the same. G. P. Pitkin. 2,530,480, Nov. 21.
Thermal protective device for electronic devices. A. P. Bock. 2,530,935, Nov. 21.
Thermochemical method of branding blank steel bands or wires. L. R. Maleyre. 2,530,436, Nov. 21.
Thermoelectric generator. H. G. Pack. 2,530,907, Nov. 21.
Thermoplastic compositions, Production of dry powdery. W. F. Bixby. 2,530,852, Nov. 21.
Thioacetamides, Preparation of. C. L. Levesque. 2,531,283, Nov. 21.
Thiophenes from sulfur dioxide and hydrocarbons. K. L. Kreuz. 2,531,279, Nov. 21.
13-monomethyl cyclopentanopolyhydrophenanthrenes and process. M. R. Ehrenstein. 2,530,816, Nov. 21.
13-monomethyl steroids. M. R. Ehrenstein. 2,530,817, Nov. 21.
Thread control for weft replenishing looms. R. G. Turner. 2,531,176, Nov. 21.
Thread holder for weft replenishing looms. R. G. Turner. 2,531,177, Nov. 21.
Threader, Needle. J. Hickey. 2,530,768, Nov. 21.
3-chloro-9-[2-(2-hydroxyethylamino)-ethylamino] acridine and its production. A. R. Surrey. 2,531,011, Nov. 21.
Tile furnace. E. Blaha. 2,530,595, Nov. 21.
Time division system for modulated pulse transmission. G. W. Gilman. 2,530,957, Nov. 21.
Timer, Adjustable automatic interval. J. B. Maris. 2,530,622, Nov. 21.
Timer for automatically defrosting refrigerators. D. Morrison. 2,530,985, Nov. 21.
Timing apparatus. R. H. Lehde. 2,531,138, Nov. 21.
Timing mechanism. P. H. Conradson. 2,530,599, Nov. 21.
Tip for cutting blowtorches. E. H. Smith. 2,531,006, Nov. 21.
Tip-up for ice fishing. L. E. Easterday. 2,530,864, Nov. 21.
Token-actuated mechanism. W. E. Snell, H. E. Frantz, Jr., and F. A. Hignutt. 2,531,236, Nov. 21.
Tool bar mount. E. G. Briscoe. 2,530,565, Nov. 21.
Tooth positioning appliance. H. D. Kesling. 2,531,222, Nov. 21.
Top for baby beds, Safety. J. E. Ream. 2,530,728, Nov. 21.
Torch tip, Hole burning. E. A. Tomlin. 2,531,174, Nov. 21.
Torque measuring system. W. D. Macgeorge. 2,531,228, Nov. 21.
Toy, Animated figure. W. E. Davenport. 2,531,260, Nov. 21.
Toy, Hammer. J. Morrison. 2,530,898, Nov. 21.
Toy machine gun. S. I. Berger. 2,530,803, Nov. 21.
Toy spring pistol. J. Gricar. 2,530,658, Nov. 21.
Traction cleat, Nonskid. G. Miller. 2,530,897, Nov. 21.
Trailer hitch. A. Murat. 2,531,289, Nov. 21.
Transmission control, Change-speed. O. H. Banker. 2,530,753, Nov. 21.
Transmitter and receiver for single-sideband signals. E. H. Hugenholtz. 2,530,614, Nov. 21.
Transmitter, Load responsive pressure. R. S. Bohannan. 2,531,104, Nov. 21.
Transportation assembly. J. L. Evans and T. N. Busch. 2,530,866, Nov. 21.
Trap: *See*—
Crab trap.
Ion trap.
Travel and load limit system for screw actuators. J. E. Chapman. 2,531,109, Nov. 21.
Traveling block limit control. C. W. Halderman. 2,530,766, Nov. 21.
Tray, Automobile. C. H. Harris. 2,530,876, Nov. 21.
Tray, Chair. A. K. Peterson and H. Wentworth. 2,531,080, Nov. 21.
Tray, Child's feeding. L. E. Sheldon. 2,530,736, Nov. 21.
Tread-belt link and cooperating driving tumbler. T. O. Davidson. 2,530,379, Nov. 21.
Treating refractory articles. C. E. Buchwald and J. Ehret, Jr. 2,530,506, Nov. 21.
Treating rubber springs. A. S. Krotz. 2,531,059, Nov. 21.
Treating vinegar. R. F. Cohee, Jr. 2,531,029, Nov. 21.
Treatment of fibro-cement products. O. H. Waechter. 2,531,016, Nov. 21.
Tree holder. B. D. Dyer. 2,531,117, Nov. 21.
Trialkylamine salts of penicillin and the purification of penicillin. N. E. Rigler. 2,530,488, Nov. 21.
Trifluorobromomethane. H. Waterman. 2,531,372, Nov. 21.
Trough, Portable feeding. R. C. Engelhaupt. 2,531,262, Nov. 21.
Tube: *See*—
Current regulator tube.
Secondary emissive electric discharge tube.
Shielded ultra high frequency cathode-ray tube.
Tube and combination thereof, Telltale electric. G. B. Rickard. 2,531,345, Nov. 21.
Tube end brushing apparatus. R. H. Stuart and R. J. Ayres. 2,531,009, Nov. 21.
Tube setting. K. C. Bugg and H. L. Hart. 2,530,855, Nov. 21.
Tube socket with terminal board skirt. J. M. Stacey. 2,531,085, Nov. 21.
Tube with secondary emission prevention means, Electric discharge. J. L. Jonker. 2,530,703, Nov. 21.
Tuning device, Variable permeability. J. W. Million, Jr. 2,531,231, Nov. 21.
Tuning mechanism. M. J. Pifer, A. D. Meyer, and H. J. McGarvey. 2,530,663, Nov. 21.
Turbine diaphragm. J. L. Ray. 2,530,908, Nov. 21.
Turnable T-member type molding fastener. R. R. Amesbury. 2,531,348, Nov. 21.
Turnable T-member type molding fastener. W. H. Churchill. 2,531,352, Nov. 21.
2,2,4-trialkyl-1,2-dihydro-6-aralkyl-substituted quinolines and producing the same. H. J. Kehe and T. H. Shelley. 2,530,774, Nov. 21.
Two-unit welting. W. C. Vizard. 2,530,927, Nov. 21.
Vacuum cleaner. H. E. Metz. 2,531,342, Nov. 21.
Vacuum distillation. F. J. Castle and R. E. Beal. 2,530,376, Nov. 21.
Value selecting and entering mechanism. G. C. Ellerbeck. 2,530,515, Nov. 21.
Valve: *See*—
Automatic open center six port control valve.
Variable throttle valve.
Line pressure lubricated plug valve.
Valve actuating control system, Automatic. E. C. Petrie and J. Trefil. 2,530,722, Nov. 21.
Valve control means, Automatic. W. O. Martin. 2,531,286, Nov. 21.
Valve for fuel burner systems, Temperature responsive safety. D. F. Drow. 2,530,942, Nov. 21.
Valve for hydraulic systems, Safety check. A. Johnson. 2,531,274, Nov. 21.
Valve for oxygen breathing systems, Mask relief. S. R. Oldham, W. J. Jacobsson, and J. A. Hoffman. 2,530,536, Nov. 21.
Valve organization. W. C. Jaegle. 2,530,433, Nov. 21.
Vaporizing type blast whirl oil burner. J. O. Horbetz. 2,531,272, Nov. 21.
Variable speed hydraulic clutch. J. R. Thomas. 2,531,014, Nov. 21.
Variable throttle valve. J. M. and F. H. Towler. 2,531,371, Nov. 21.
Variable volume washer. L. M. Kahn. 2,530,822, Nov. 21.
Vehicle: *See*—
Material conveying and dumping vehicle.
Vehicle brake cable oiler. F. B. Williams. 2,531,095, Nov. 21.
Vehicle drive with individual motors for multiple driven parts, Hydraulic. H. E. Paulson. 2,530,720, Nov. 21.
Vehicle for hot line tools, Trailer. L. J. Linde. 2,531,140, Nov. 21.
Vehicle registration card and service tally holder. G. D. Ritchie. 2,531,295, Nov. 21.
Vehicle ventilator operator. C. A. Sigel. 2,530,666, Nov. 21.

Vending machine, Merchandise. W. S. Tandler, D. S. Walker, F. A. De Wiess, and W. M. Teller. 2,531,238, Nov. 21.
Venetian blind. F. J. Burns. 2,530,422, Nov. 21.
Vent control for processing containers. R. D. Cowherd. 2,531,257, Nov. 21.
Ventilation controlling device for chick boxes. H. J. Kneubuehl. 2,531,057, Nov. 21.
Vertically adjustable table. J. H. Pettit. 2,531,233, Nov. 21.
Vessel, Thermal controlled cooking. L. F. Berg and W. R. McDowell. 2,530,643, Nov. 21.
Vibration dampening drive system for aircraft. W. E. Hunt. 2,530,467, Nov. 21.
Vinyl polymers and producing the same. M. M. Brubaker and R. A. Jacobson. 2,531,196, Nov. 21.
Vinyl resins plasticized with poly-(carbalkoxyalkylenethio) compounds. J. E. Jansen and J. T. Gregory. 2,530,882, Nov. 21.
Vinyl xylenes, Production of. W. E. Elwell. 2,531,327, Nov. 21.
Vise, Hand-twirled fly-tying. D. S. Martinez. 2,530,713, Nov. 21.
Voltage regulating system. R. G. Le Tourneau. 2,531,062, Nov. 21.
Vulcanization of rubber. S. T. Semegen. 2,530,789, Nov. 21.
Vulcanizing spot press. M. W. Van Scoyk. 2,530,411, Nov. 21.
Waistband of trousers, shorts, skirts, and the like. S. Klein. 2,530,618, Nov. 21.
Wall and wall panel. C. R. B. Harding. 2,530,465, Nov. 21.
Wall construction. J. Dahlin. 2,530,940, Nov. 21.
Wall vent. G. F. Taylor. 2,530,919, Nov. 21.
Washer: *See*—
Flatwork washer.
Vehicle washer.
Variable volume washer.
Water fountain for poultry. M. C. Townsend. 2,530,922, Nov. 21.
Waterworks device. V. C. Cerasi. 2,530,808, Nov. 21.
Wave filter. A. G. Fox. 2,530,691, Nov. 21.
Wave meter. W. L. Roth. 2,530,541, Nov. 21.
Weighing apparatus. E. S. Scott. 2,531,303, Nov. 21.
Weighing machine illuminator. M. A. Weckerly. 2,531,179, Nov. 21.
Weighing scale indicator. N. E. Hart. 2,531,124, Nov. 21.
Welding clamp. R. A. Johnson. 2,530,969, Nov. 21.
Well completion apparatus. T. A. Huber. 2,530,966, Nov. 21.
Well-drilling apparatus. H. L. Feaster. 2,531,120, Nov. 21.
Well logging apparatus, Acoustic. C. H. Kean. 2,530,971, Nov. 21.
Wheel: *See*—
Buffing and polishing wheel.
Wheel for automobiles, Heated steering. S. V. Wilson. 2,530,559, Nov. 21.
Wheel gauge. B. J. Beckwith. 2,531,102, Nov. 21.
Wheel support with power actuated clamping means. J. F. Eckles. 2,530,572, Nov. 21.
Winding device, Spring. E. E. Gregory. 2,530,576, Nov. 21.
Window closer, Rain operated automatic. H. Donoghue. 2,531,116, Nov. 21.
Window, Sashless. E. Pierson. 2,530,724, Nov. 21.
Window, Ventilated. O. Kubatzky. 2,531,281, Nov. 21
Windrower leveling means. W. B. Tallman. 2,530,668, Nov. 21.
Wire drawing block. W. Morgan. 2,530,624, Nov. 21.
Wire, rod, and sheet metal drawing lubricant of synthetic wax, borate, and organic binder. G. H. Orozco and R. F. Roy. 2,530,838, Nov. 21.
Wiring duct. M. C. Cisler. 2,531,110, Nov. 21.
Wrench: *See*—
Chain-driven ratchet Screw-eye wrench.
wrench.
Wrench device, Rotary impact. J. Stec. 2,530,915, Nov. 21.
Wrench provided with reversible jaw faces, Pipe and nut. G. C. Hardie. 2,531,039, Nov. 21.
Wrench with self-adjusting jaws. E. L. Manspeaker. 2,531,285, Nov. 21.
Wringer. R. L. Gold. 2,531,333, Nov. 21.
Wrist band. T. Hirsch. 2,530,964, Nov. 21.
Wrist watch connector. K. C. Augenstein. 2,530,800, Nov. 21.
Xanthation, Continuous. S. E. Seaman. 2,530,403, Nov. 21.
X-ray testing and measuring method and apparatus. F. Fua. 2,530,517, Nov. 21.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 21, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Total	1,395			

Patents expiring: Patent Numbers 1,936,568 to 1,937,498, inclusive, and Plant Patents, Numbers 83 to 84, inclusive, issued November 28, 1933, expire November 28, 1950

Condition of Applications Under Examination at Close of Business Nov. 10, 1950

Total number of patent applications awaiting action, 126,125. Date of oldest new application, September 10, 1949; date of oldest amended application, September 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
* C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spitoons; Sewage.	12-6-49	12-6-49	2671
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	11-18-49	10-22-49	2070
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	2-11-50	2-20-50	1690
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	9-10-49	9-16-49	2196
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-27-49	10-4-49	1576
6. SURLE, H., Carbon Chemistry (part)	1-31-50	1-26-50	1805
7. GONSALVES, J. E., Optics; Photography (part)	5-3-50	5-3-50	1307
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	10-18-49	10-17-49	2577
9. BENSON, R. B., Pumps and Fans	11-8-49	11-1-49	1449
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	1-16-50	12-2-49	1412
11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	10-11-49	10-6-49	1610
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-23-49	12-23-49	1382
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	10-1-49	10-5-49	1982
14. MANIAN, Joseph C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	12-2-49	12-2-49	1326
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	3-17-50	3-7-50	1327
16. LOVEWELL, N. N., Television; Telephony	2-25-50	3-7-50	1061
17. LEIGHEY, R. A., Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-17-49	11-16-49	2082
18. KURZ, J. A., Power Plants; Speed Responsive Devices	10-6-49	9-15-49	1710
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-1-49	10-25-49	1283
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	10-25-49	10-31-49	1962
21. MADER, R. C., Textiles; Package and Article Carriers	9-20-49	10-26-49	1892
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid and Fluid Current Motors	11-7-49	11-2-49	1500
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-23-49	12-14-49	771
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	3-22-50	3-22-50	1628
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	1-20-50	1-17-50	1558
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-5-50	1-4-50	1405
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	12-21-49	12-15-49	2139
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-6-49	10-1-49	1618
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-13-50	1-7-50	1804
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	3-10-50	3-10-50	2061
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-20-50	2-1-50	2155
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	2-26-50	1-20-50	1665
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-3-50	1-6-50	2160
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	11-2-49	10-31-49	1714
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	11-7-49	11-28-49	1788
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	11-7-49	11-2-49	1706
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	12-8-49	12-1-49	1082
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	3-23-50	2-3-50	1401
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	9-14-49	9-14-49	3159
40. DRUMMOND, E. J., Receptacles (part); Packages	1-3-50	12-3-49	3256
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-16-49	9-6-49	1663
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-26-50	11-16-49	2211
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	4-19-50	3-22-50	1030

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 126,125. Date of oldest new application, September 10, 1949; date of oldest amended application, September 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
44. HARVEY, L. P., Beds; Chairs, Seats	9-13-49	9-7-49	1919
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-7-49	11-10-49	1891
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	11-7-49	11-5-49	1371
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-14-50	12-1-49	1907
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	2-11-50	11-9-49	1129
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	10-18-49	10-4-49	2163
50. LEVIN, SAMUEL, Synthetic Resins	4-19-50	2-14-50	1738
51. YAFFEE, S., (Acting), Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	12-29-49	11-9-49	1564
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	11-14-49	10-5-49	3201
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	1-23-50	12-17-49	1272
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	1-28-50	1-19-50	1524
55. KLINE, J. R., (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	2-10-50	2-3-50	1376
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	1-23-50	1-17-50	1731
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	3-15-50	3-9-50	1452
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	10-20-49	1508
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-9-50	2-1-50	1145
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	4-1-50	2-21-50	1140
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-5-49	11-12-49	1877
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	12-6-49	11-25-49	2512
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	2-18-50	3-3-50	1619
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	4-19-50	4-14-50	1607
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-15-50	2-11-50	1826
66. LISANN, I., Geometrical Instruments	11-19-49	9-14-49	1119
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-21-50	2-15-50	1400
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-8-50	2-2-50	1576
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-15-49	11-12-49	2019
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	11-1-49	9-7-49	2174
DESIGNS: BREHM, G. L.	12-3-49	5-16-50	4419

Total number of trade-mark applications awaiting action (including renewals and republications), 22,643. Date of oldest new application, Feb. 2, 1950; date of oldest amended application, Jan. 31, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-8-50	2-17-50	6562
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	3-3-50	2-24-50	4041
Renewals (All Classes)	9-8-50	10-10-50	295
Republications (All Classes)	9-19-50	10-10-50	279
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	2-18-50	2-20-50	5548
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	2-2-50	1-31-50	5918

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SMITH

No. 5699. Decided June 30, 1950

[183 F.2d 84; 86 USPQ 394]

1. PATENTABILITY — PARTICULAR SUBJECT MATTER — METHOD OF WORKING BRASS AND PRODUCT THEREOF.

Certain claims to a method of working beta brass and the worked beta brass product *Held* unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 441,973. AFFIRMED.

Pennie, Edmonds, Morton and Barrows (*James W. Laist, Clarence M. Fisher*, and *Ambrose A. Arnold* of counsel) for Smith.

E. L. Reynolds (*S. Wm. Cochran* of counsel) for the Commissioner of Patents.

GARRETT, *C. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming rejections by Primary Examiners of two claims numbered 24 and 25 reading:

24. The method of working beta brass which comprises plastically deforming the alloy at a temperature in the range from 100° to 350° C. sufficiently to elongate the grains of the worked alloy in the manner characteristic of metals that have been subjected to more than 25% plastic deformation at temperatures below the recrystallization temperature and without injuring the thus-worked alloy, the extent of said plastic deformation without injury to the worked alloy being substantially greater than the extent to which the same alloy can be plastically deformed without injury at room temperature.

25. Beta brass which has been extensively plastically worked at a temperature in the range from 100° to 350° C. as evidenced by plastic deformation of the alloy grains (without injury to the worked alloy) to an extent greater than 25% reduction in cross-sectional area at a temperature below the recrystallization temperature, said grains consequently having a long diameter in the direction of working at least twice as great as the short diameter substantially perpendicular to the direction of working, said plastic deformation of the alloy grains without injury to the worked alloy being on the average substantially greater than exists in a specimen of the same alloy composition plastically deformed at room temperature to the maximum extent possible without injury to said specimen.

The appealed claims were rejected, along with others not appealed, because the respective tribunals of the Patent Office deemed them uninventive over disclosures of prior art, the single reference cited being, as stated in the decision of the Board: "Metals" by Carpenter and Robertson, Vol. II, 1939, Oxford University Press N. Y., Page 1302.

It will be observed that claim 24 is a method claim and claim 25 is for the product resulting from practice of the method.

It may be said that in the Patent Office several other method claims and one other product claim (numbered 23) were involved, and that a practice which the Patent Office began some years ago, usually referred to as "dual prosecution," was followed. Under that practice the method claims of appellant's application were passed upon and rejected by an Examiner in Patent Office Division 13 to which division was committed general jurisdiction of the application. The two product claims were passed upon and rejected by an Examiner in Division 3.

When the appeals to the Board were taken the decisions of the respective Examiners were consolidated.

The appeal to us relates only to the rejection of method claim 24, supra, and product claim 25, supra. It is obvious that those claims are not patentably distinguishable—that is, the two stand or fall together.

It will be noted that the claims relate only to alloys which, when combined, constitute what is known to those skilled in the brass making art as beta brass.

In the specification it is recited that there are three important alloys of copper and zinc which can be classified as alpha brass, alpha plus beta brass, and beta brass; that alpha brass contains up to about 35% zinc, the balance being copper; that such alloys are workable both hot and cold and have reasonable strength and excellent ductibility at room temperature.

A footnote of appellant's brief, referring to the record, explains:

[1] The term "workable" refers to the ability of an alloy to undergo mechanical working such as rolling, drawing, swaging, heading, cupping, coining, stamping, forging, etc. * * * into desired commercial shapes without cracking or failure of any kind. Equivalent terms frequently used are "plastically workable," "plastically deformable," etc.

The following is quoted from the specification of appellant's application:

The present invention provides a new and novel method of working alloys of beta brass structure, for I have found that they are unexpectedly plastic at temperatures in the range 100° C. to 350° C. Temperatures in this range are low enough to permit the utilization of ordinary metal-working equipment intended for use at room temperatures, and which give to the final product an accuracy of dimension and fineness of finish that cannot be achieved by hot working methods.

Stated concisely, the invention contemplates the method of working an alloy predominantly comprising copper and zinc (such, for example, as an alloy of copper with 42 to 51 per cent zinc), having a body-centered-cubic crystal structure (the crystal structure of the beta

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brasses), which comprises plastically deforming said alloy at a temperature in the range 100° C. to 350° C. Often it is advantageous to subject the alloy to plastic deformation in the narrower range of 150° C. to 300° C. in order to insure against development of any defect in the metal during working. A working temperature of about 200° C. is optimum for many beta brass alloys. Frequently it is most convenient to hot work the alloy (in the hot working range of 500° C. to 850° C.) approximately to finished size, and then to work the alloy substantially to its finished size and shape by plastic deformation at a temperature in the range of the invention. If desired the alloy may be cold-worked substantially at room temperatures after working in the temperature range of the invention in order to develop a degree of work-hardening, but such cold-working cannot in general exceed 25 per cent reduction in cross-sectional area without developing cracks or other defects.

The foregoing, of course, relates to the method embodied in claim 24, supra. Immediately after it is the following, which relates to the composition defined in claim 25, supra:

The invention further embraces the plastically worked alloy produced by the method of the invention.

In the decisions of the respective Primary Examiners the claims here before us were very fully discussed and reasons were given for applying the reference.

The Board of Appeals in its decision epitomized the statements and holdings of the respective Primary Examiners and we quote the following pertinent excerpts from the Board's decision:

* * * In * * * the specification * * * appellant states:

"So far as alloys composed substantially entirely of copper and zinc are concerned, the process of working in accordance with my invention can be applied most usefully in the range from 42 to 51 per cent zinc because below 42 per cent zinc enough of the alpha phase is present to permit working by ordinary cold rolling methods and much above 51 per cent the gamma phase will be precipitated at 200° C. and the alloy will become brittle."

The Examiner has adopted this quoted part of the disclosure as showing the scope of the range of alloys contemplated by appellant in the claims.

The reference relied on by the Examiner is page 1302 of Metals by Carpenter and Robertson, Vol. II, 1939. This page is concerned only with alloys of copper and zinc. It shows a graph made by Bunting based on impact tests of various alloys at various temperatures. In Fig. 543 using an Izod value of 15 ft.-lb. as the boundary between tough and brittle, the brittle range was shown to cover the region represented by area A. The reference goes on to state:

"This figure accords with experience. Alloys containing up to about 45 per cent of zinc are ductile at temperatures up to 250° C. All copper-zinc alloys within this range are suitable for cold-working."

With respect to process claims 8, 9, 10, 18 to 22, inclusive, and 24, it is the position of the Examiner of Division 13 that the claims fail to define anything patentable over page 1302 of Metals. The Examiner points out that the reference states that alloys containing up to 45% zinc are ductile at temperatures up to 250° C. and all copper-zinc alloys within this range are suitable for cold working. Since the Examiner considers the claims to cover the range of 42 to 51 per cent of zinc in the copper-zinc alloy, he holds that it is clear that the reference shows an alloy which is covered by the claims, at least up to about 45% zinc. Moreover, since the reference states that such alloys are ductile up to 250° C., the Examiner points out that this meets the requirement that the alloy can be subjected to plastic deformation at a temperature between 100° C. and 350° C. without injury. The Examiner, therefore, fails to see how the claims can be regarded as patentable over page 1302 of Metals, since by appellant's own definition, he has included copper alloys of 42 to 51 per cent zinc as being within the purview of his invention and the reference shows alloys within this range being cold workable and ductile up to 250° C. * * *

* * * * * * * *

Claims 23 and 25 were rejected by the Examiner of Division 3 is unpatentable over the prior art as acknowledged by appellant in paper No. 7, Amendment C, page 4, filed August 14, 1945, wherein it is stated:

"Thus, the prior art recognised that beta brasses could be cold-worked only to 15 to 25% reduction of area in the normal cold-working range of from 15 to 60° C."

The Examiner points out that the claims differ from such prior art cold worked beta brass in degree only, not in kind. This Examiner, like the Examiner of Division 13, has also held the limitation "alloy having the structure of beta brass" is indefinite.

The Board of Appeals also stated the arguments made before it by appellant, saying:

Appellant, in an extensive and carefully worded brief, believes that the Examiner has (1) totally ignored credible affidavits, and (2) ignored the fact that not all alloys of copper and zinc containing 42 to 51% zinc are beta brasses. With respect to the first error, the Examiner in his reply to brief states that all affidavits were carefully considered but not given sufficient weight to overcome the reference. * * *

The appellant refers to the specification, * * * to show that in pure copper-zinc, alloys at low temperatures, the beta phase extends from about 50 per cent to about 45 per cent zinc. The wider range of 42 to 51 per cent zinc does not always give a beta brass, according to appellant, who refers to several affidavits to show that below 45% zinc, there has to be a quenching from an elevated temperature to obtain beta brass.

The diagram based on impact tests in page 1302 of Metals is criticized as arbitrary and as having no significance in relation to plastic deformation. The appellant calls attention to the hot working of 70/30 cartridge brass which the diagram holds is brittle.

The same arguments in slightly different phraseology were presented before us and we have given them careful consideration.

We have studied the specification and the affidavits. Of course, the recitals of the specification must control. Appellant does not insist otherwise, and, as we understand it, presents the affidavits merely to support a claimed interpretation of the specification itself. The Board said, inter alia:

* * * Appellant admits that beta brass is always formed when a pure copper-zinc alloy is made up of about 45 to about 50 per cent zinc; * * *. Page 1302 of Metals points out that copper-zinc alloys up to about 45 per cent zinc are ductile up to 250° C. We consider that there is an overlap as to the lower limit of about 45% or at least a meeting at this point and hence, the reference may properly be regarded as reading on a beta brass of about 45 per cent zinc. The reference shows such a 45 per cent alloy, which appellant has shown must always be a beta brass in a two component alloy, can be worked up to 250° C., which is within the range recited in the claims.

Accordingly, we feel that the claims are clearly unpatentable over the reference. The feature of first hot working the brass is admittedly old in the art and it clearly cannot add anything patentable.

We are not convinced that the Board erred and its decision is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

LIBBEY-OWENS-FORD GLASS COMPANY

v.

PLASTRON, INC.

No. 5700. Decided June 30, 1950

[183 F.2d 110; 86 USPQ 397]

1. TRADE-MARKS—OPPOSITION—EXTENSION OF BUSINESS.
   There being nothing in the record to show that the opposer has any intention of extending its business to the type of goods involved, *Held* that the rights of the opposer cannot include a speculative future use of its mark.
2. SAME—SAME—COMPETITIVE BUSINESS NECESSARY.
   Since the goods of the appellee are purchased by the general public while those of the appellant are bought in large quantities by manufacturers who produce finished articles which do not bear the appellant's mark, *Held* that the goods of the parties differ in their descriptive properties and damage to the appellant may not be inferred, even though the marks are closely similar.
3. SAME—GOODS OF SAME DESCRIPTIVE PROPERTIES—PLASTIC SHOWER CURTAINS AND PLASTIC POWDERS OR LIQUIDS.
   Held that the shower curtains to which the appellee's mark is applied do not possess the same descriptive properties as appellant's powdered or liquid plastic products.

APPEAL from Patent Office, Opposition No. 24,998.

AFFIRMED.

Marshall, Marshall & Leonard (*Watts T. Estabrook* and *Harry K. Leonard* of counsel) for Libbey-Owens-Ford Glass Company.

Theodore W. Miller (*Harvey L. Rabbitt* of counsel) for Plastron, Inc.

JACKSON, *J.*:

On October 15, 1945, appellee filed its application, Serial No. 489,982, to register its trade-mark "Plastron," as applied to shower curtains made from plastic film. The mark was passed for publication and appeared as such in the OFFICIAL GAZETTE of the United States Patent Office on February 5, 1946. On March 1, 1946, appellant filed its notice of opposition to the registration of the said mark, alleging that it would be damaged by such registration. On May 10, 1946, appellee, in its answer, traversed the allegations of appellant's notice of appeal and also set out an affirmative defense.

In the notice of opposition, the allegations therein relate entirely to the confusion-in-trade clause of section 5 of the Trade-Mark Act of 1905, as the statutory ground for negativing the right of appellee to register its mark.

Appellant relied upon its trade-mark "Plaskon," which was registered in Registration Nos. 291,254, 323,067, 328,094 and 397,061, dated February 2, 1932, April 2, 1935, September 17, 1935, and August 18, 1942, respectively.

The earliest of those registrations was for "SYNTHETIC HEAT HARDENING MOLDING MATERIAL FOR USE IN MOLDING ARTIFICIAL RESINOUS PRODUCTS"; the second for "CONDENSATION PRODUCTS OF UREAS AND ALDEHYDES"; the third for "FORMED ARTIFICIAL RESIN FOR USE AS CONSTRUCTION MATERIAL FOR CASINGS"; and the fourth for "SYNTHETIC RESINOUS COMPOSITIONS FOR USE AS INGREDIENTS IN THE MANUFACTURE OF LACQUERS, ENAMELS, AND FINISHES."

It appears that appellee is a fabricator and distributor of articles made from plastic film, among which are "Fabric by the Yard," "Shower Curtains," "Jumbo Garment Bags," "Garment Bags," "Linen Bags," "Blanket Bags," "Laundry Bags," "Lingerie Bags and Sets," "Shoulder Covers," "Make-up Capes," "Shelf Edgings," "Pillow Covers," "Aprons," and "Costume Bags."

Both parties took testimony and there are many paper exhibits in evidence, including advertisements of plastic articles appearing in magazines and newspapers.

For the reason that the Examiner determined that the goods of the parties did not possess the same descriptive properties, he deemed it unnecessary to pass upon the question of whether or not the marks of the parties are deceptively similar. Holding that the respective products do not possess the same descriptive properties within the meaning of the statute for the reason that they relate to descriptively different fields of trade, the Examiner of Interferences dismissed the notice of opposition and adjudged that appellee is entitled to the registration for which it made application.

Upon appeal the Commissioner of Patents affirmed the decision of the Examiner of Interferences in all respects. (78 USPQ 46.) From the Commissioner's decision this appeal was taken.

Appellant is concerned with the manufacture and sale of plastic compositions of synthetic resins and plastic materials, including, as appears in the notice of opposition, coating compounds and impregnating compositions of urea formaldehyde and other types, as well as adhesives and molding compounds, all of which, it is alleged, are widely known in the resin and plastic industries. It appeared from the testimony, in addition to those materials, that appellant manufactures and sells melamine formaldehyde industrial resins, phenol formaldehyde glues, polyester impregnating and laminating resins, and urea formaldehyde impregnating and laminating resins. The use by appellant of its mark antedates by many years the first date alleged by appellee.

All of the plastic products of appellant set out herein are raw, or partially prepared materials which have many diversified commercial uses. The synthetic resinous materials of appellant are sold in bulk to manufacturers for use in the fabrication of many articles of merchandise such as "airplane seats; fly rods; lamp shades; decorative sheeting and table tops, impregnated table tops, and honeycomb." It appears that it supplies colored plastic material to be used by manufacturers in making "various types of parts or finished pieces, such as clock pieces, water tumblers, buttons, electrical parts, radio housings, gadgets of all kinds * * *."

Appellant's products which are in powdered or liquid form are sold entirely to fabricators or distributors in metal or fiber drums containing from 200 pounds to 500 pounds each. It makes or sells no finished articles and its mark "Plaskon" does not appear on such articles manufactured from its products. It is said that some of the manufacturers of the finished products employ their own trade-marks and many others do not.

Appellee's trade-mark is used by it both as a symbol of origin of its products and as a name for the film of which they are composed. Its products are sold to retailers for resale to housekeepers.

It does not appear that any of the plastic materials sold by appellant have ever been manufactured into shower curtains. Nor does it appear that their chemical compositions are suitable to such manufacture. As far as this record is con-

cerned, it has never made or sold plastic film, nor shower curtains, nor does it appear that any of the customers of appellant ever manufactured shower curtains from any of the materials purchased from it.

Appellant seeks to bring itself within the exception to the general rule that raw or other basic materials of general utility in the manufacture of finished articles do not possess the same descriptive properties as the various products for which they are adapted. In order to do so it must be shown that the properties of an article which generally govern the selection of purchasers are inherent in the particular material of which it is made. There is nothing in the record, as hereinbefore pointed out, that any of the plastic compositions manufactured by appellant is adapted for use in the manufacture of appellee's shower curtains. Neither is there anything to indicate that the film of appellee is suitable to be used in the manufacture of any other articles than those of the kind sold by appellee.

[1] Appellant has shown that its principal competitor manufactures plastic compositions similar to those made and sold by appellee, as well as compositions adaptable for use as a material for shower curtains. It contends that because of such manufacture by its competitor it should be held that "it is entirely possible, in fact probable" that appellant will also manufacture and sell shower curtains. There is nothing to show that it has any intention of so extending its business. We deem it logical to conclude, as was held by the Examiner of Interferences, that the rights of appellant cannot include a speculative future use of its mark.

[2] For the reason that in our opinion the goods of the parties differ in their descriptive properties, we may not infer probable damage to the appellant, even though their respective marks are closely similar. *Goldsmith Bros.* v. *Atlas Supply Co.*, 32 CCPA (Patents) 1001, 148 F.2d 1016, 65 USPQ 378, 577 O. G. 312.

It is obvious that the market for the involved goods of the respective parties are distinctly and entirely different. They are not sold through the same outlets; the goods of appellee are ordinarily purchased by the general public, while those of appellant are bought in huge quantities and by manufacturers who in turn produce finished articles from appellant's material, the trade-mark identity of which does not follow through to the ultimate consumer.

We have considered with care all of the contentions of appellant herein and have examined the many cases cited to sustain its contentions. In this jurisdiction, cited cases are of little assistance for the reason that each case depends entirely on its own involved facts. Therefore we deem it unnecessary to discuss any of the many authorities with respect thereto.

[3] For the reasons hereinbefore set out, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

O'CONNELL, *J.* (dissenting):

Appellant, a pioneer in the plastic industry of America, owns and has continuously used the registered trade-mark "Plaskon" since February 2, 1932, in connection with resinous and plastic material manufactured and sold by appellant to fabricators and distributors. They reproduced the plastic composition and resold it to the public in many diversified forms of merchandise, including printed fabrics, or decorative sheets, made out of polyester resins. (78 USPQ 46.)

Appellee is a fabricator and distributor of plastic goods, principally shower curtains made of film consisting of polyvinyl chloride resinous material. To that merchandise, and similar articles of the specie, appellee in the summer of 1945 created and appropriated the mark "Plastron," which to all intents and purposes is identical in sound, meaning, and appearance with appellant's mark "Plaskon."

Appellant over an extended period of years has spent large sums of money in advertising the trade-mark "Plaskon" by direct appeals not only to the housekeepers and homeowners of the nation but also to the fabricators and distributors who resold appellant's goods to the public. The amount spent for such advertising by appellant over the past five years approximated $80,000 a year, or $400,000. Appellee in its testimony has shown no expenditure for advertising. Appellant does all the advertising.

In fact, appellant's averment in the notice of opposition has been explained by appellee, but not refuted, to the effect that the word "Plastron" published and illustrated in the OFFICIAL GAZETTE of the Patent Office appears in rough script or brush strokes identical in detail with the rough script or brush stroke letters used by appellant in advertising "Plaskon" long prior to the time appellee entered the field during the summer of 1945.

There is no question here of appellee's right to manufacture and sell, ad infinitum, shower curtains and similar items made from plastic film; the question is what legal right does appellee have to appropriate and attach the appellant's practically identical mark to those goods.

None of appellant's presently produced materials have been used in the manufacture of shower curtains. Appellant has introduced evidence, however, to the effect that its most active competitor in the plastic and resin industry, Bakelite Corporation, uses polyvinyl chloride like appellee does to produce shower curtains which it advertises widely and sells to the public.

Appellant contends that the production of plastic film for use in shower curtains represents a natural and expected extension of the business of a general resin and plastic manufacturing company, such as appellant, and that appellant should not be hampered or embarrassed by the registration to appellee of a similar and substantially identical mark for concurrent use on shower curtains.

The same contention was advanced by appellant before the tribunals of the Patent Office where the adverse ruling was made that no "merely speculative future use of the opposer's [appellant's] mark on goods other than those to which it is now appropriated [can] add anything to its present rights therein," citing *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, 30 CCPA (Patents) 1228, 136 F.2d 909, 58 USPQ 474, 556 O. G. 720.

The decision in the Pratt & Lambert case was ably written by the late Judge Hatfield who therein approved the doctrine of the "legitimate expansion" of business to include the protected use of an existing trade-mark There was no application of the doctrine in that case, however, because, as stated, "the goods of the parties [paints and insecticides] differ so widely in composition and use" and because the appellant proposed to branch out into an unrelated business for which the appellant had no machinery or manufacturing processes for the making of insecticides.

The first appropriator of a trade-mark has the right to the use of the mark not only on the goods in which he deals but also on goods which he may afterwards produce or handle if they have the same essential qualities as those upon which he has been using the mark. *Beck, Koller & Co., Inc.* v. *Bakelite Corp.*, 24 CCPA (Patents) 1290, 1293, 90 F2d 349, 351, 34 USPQ 68, 69, 485 O. G. 516; *Canton Culvert & Silo Company* v. *Consolidated Car-Heating Company*, 44 App. D. C. 491, 226 O. G. 1799.

Appellant in the case at bar has a research division with laboratories in which twenty scientists are employed, divided into six groups. Some of those groups are constantly at work on the improvement of existing commercial products and other groups are employed on products under development. New products are constantly being developed in the research laboratories and thereafter turned over to the new products sales division for promotion.

Appellant already manufactures eight different types of plastic or resinous materials and it is obvious that an expansion of trade to include a ninth would be but a slight expansion and one most likely to occur. Moreover, the plant, equipment, and personnel of appellant appear to be ready for the job. In other words, appellee, has no right to impede appellant in the use of its long and previously established mark in the natural expansion of appellant's business. *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, supra; *Gutta-Percha & Rubber Mfg. Co.* v. *Ajax Mfg. Co.*, 48 App. D. C. 230, 259 O. G. 184; *L. E. Waterman Co.* v *Gordon*, 72 F.2d 272.

There can be no question that the mark of appellee, the newcomer, so nearly resembles the mark owned and in use by appellant in this case as to be likely to cause confusion and deceive purchasers. It is not the difference in the goods which causes the likelihood of confusion; it is the lack of any difference in the marks by which the goods of one of the producers may be distinguished from the goods of the other. *Skol Company, Inc.* v. *Olson*, 33 CCPA (Patents) 715, 151 F.2d 200, 67 USPQ 96, 582 O. G. 491; *Williams* v. *Kern & Sons*, 47 App. D. C. 441, 254 O. G. 866.

The decisions rendered in the case at bar have all held under the Trade-Mark Act of 1905 that there was no likelihood of confusion because the involved goods were not goods of the same descriptive properties. The record discloses that the opposition proceeding here in issue was pending before the Patent Office undetermined, even by the Examiner of Interferences, during the effective period of the Trade-Mark Act of 1905.

The issue here involved was first determined by the Examiner, and subsequently by all others, after the effective date of the Trade-Mark Act of 1946. That act not only repealed all previous acts but also abolished the provision for "merchandise of the same descriptive properties" as a test for the likelihood of confusion. *S. C. Johnson & Son, Inc.* v. *Johnson*, 81 USPQ 509.

Where there is no need to consider whether the involved goods are goods of the same descriptive properties, this court in a proper case has held, for example, that the word "Esquire" previously appropriated as a trade-mark for use on a magazine could not be subsequently appropriated by a newcomer for use on a machine for molding hamburgers. *Holly Molding Devices* v. *Esquire, Inc.*, 32 CCPA (Patents) 935, 148 F.2d 355, 65 USPQ 125, 576 O. G. 4.

Points relied upon in the decisions which have been rendered in this case really have no legal significance. For example, those decisions have dramatized the fact that the smallest container in which appellant's liquid resins were delivered to the fabricators was a two-hundred-pound drum. The drums containing the composition delivered to appellee to be fabricated by appellee into shower curtains likewise might have been the same or larger size. Just what the size of a drum has to do in the determination of the question as to whether the respective compositions are goods of the same descriptive parties is hard to understand.

Furthermore, present marketing methods as to the distribution of appellant's products are not of controlling importance since modern trade practices are subject to change from day to day, and absence of actual confusion in trade is likewise of no importance in an opposition proceeding because the mandate of the statute is directed against the registration of a mark which is likely to cause confusion. *Celanese Corporation of America* v. *E. I. Dupont De Nemours & Co.*, 33 CCPA (Patents) 948, 154 F.2d 146, 69 USPQ 101, 587 O. G. 341.

The case last cited discloses that the Dupont Company produces a cellulose composition sold to fabricators and distributors for resale by them directly or indirectly to the public. In that situation, however, and under a marketing arrangement, the trade-mark "Dupont" is attached by the fabricator

cerned, it has never made or sold plastic film, nor shower curtains, nor does it appear that any of the customers of appellant ever manufactured shower curtains from any of the materials purchased from it.

Appellant seeks to bring itself within the exception to the general rule that raw or other basic materials of general utility in the manufacture of finished articles do not possess the same descriptive properties as the various products for which they are adapted. In order to do so it must be shown that the properties of an article which generally govern the selection of purchasers are inherent in the particular material of which it is made. There is nothing in the record, as hereinbefore pointed out, that any of the plastic compositions manufactured by appellant is adapted for use in the manufacture of appellee's shower curtains. Neither is there anything to indicate that the film of appellee is suitable to be used in the manufacture of any other articles than those of the kind sold by appellee.

[1] Appellant has shown that its principal competitor manufactures plastic compositions similar to those made and sold by appellee, as well as compositions adaptable for use as a material for shower curtains. It contends that because of such manufacture by its competitor it should be held that "it is entirely possible, in fact probable" that appellant will also manufacture and sell shower curtains. There is nothing to show that it has any intention of so extending its business. We deem it logical to conclude, as was held by the Examiner of Interferences, that the rights of appellant cannot include a speculative future use of its mark.

[2] For the reason that in our opinion the goods of the parties differ in their descriptive properties, we may not infer probable damage to the appellant, even though their respective marks are closely similar. *Goldsmith Bros.* v. *Atlas Supply Co.*, 32 CCPA (Patents) 1001, 148 F.2d 1016, 65 USPQ 378, 577 O. G. 312.

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We have considered with care all of the contentions of appellant herein and have examined the many cases cited to sustain its contentions. In this jurisdiction, cited cases are of little assistance for the reason that each case depends entirely on its own involved facts. Therefore we deem it unnecessary to discuss any of the many authorities with respect thereto.

[3] For the reasons hereinbefore set out, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

O'CONNELL, *J.* (dissenting):

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Appellee is a fabricator and distributor of plastic goods, principally shower curtains made of film consisting of polyvinyl chloride resinous material. To that merchandise, and similar articles of the specie, appellee in the summer of 1945 created and appropriated the mark "Plastron," which to all intents and purposes is identical in sound, meaning, and appearance with appellant's mark "Plaskon."

Appellant over an extended period of years has spent large sums of money in advertising the trademark "Plaskon" by direct appeals not only to the housekeepers and homeowners of the nation but also to the fabricators and distributors who resold appellant's goods to the public. The amount spent for such advertising by appellant over the past five years approximated $80,000 a year, or $400,000. Appellee in its testimony has shown no expenditure for advertising. Appellant does all the advertising.

In fact, appellant's averment in the notice of opposition has been explained by appellee, but not refuted, to the effect that the word "Plastron" published and illustrated in the OFFICIAL GAZETTE of the Patent Office appears in rough script or brush strokes identical in detail with the rough script or brush stroke letters used by appellant in advertising "Plaskon" long prior to the time appellee entered the field during the summer of 1945.

There is no question here of appellee's right to manufacture and sell, ad infinitum, shower curtains and similar items made from plastic film; the question is what legal right does appellee have to appropriate and attach the appellant's practically identical mark to those goods.

None of appellant's presently produced materials have been used in the manufacture of shower curtains. Appellant has introduced evidence, however, to the effect that its most active competitor in the plastic and resin industry, Bakelite Corporation, uses polyvinyl chloride like appellee does to produce shower curtains which it advertises widely and sells to the public.

Appellant contends that the production of plastic film for use in shower curtains represents a natural and expected extension of the business of a general resin and plastic manufacturing company, such as appellant, and that appellant should not be hampered or embarrassed by the registration to appellee of a similar and substantially identical mark for concurrent use on shower curtains.

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[Decisions of the United States Court of Appeals District of Columbia Circuit are indicated by the letter (*); of the United States Court of Customs and Patent Appeals by an asterisk (*).]

The same contention was advanced by appellant before the tribunals of the Patent Office where the adverse ruling was made that no "merely speculative future use of the opposer's [appellant's] mark on goods other than those to which it is now appropriated [can] add anything to its present rights therein," citing *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, 30 CCPA (Patents) 1228, 136 F.2d 909, 58 USPQ 474, 556 O. G. 720.

The decision in the Pratt & Lambert case was ably written by the late Judge Hatfield who therein approved the doctrine of the "legitimate expansion" of business to include the protected use of an existing trade-mark There was no application of the doctrine in that case, however, because, as stated, "the goods of the parties [paints and insecticides] differ so widely in composition and use" and because the appellant proposed to branch out into an unrelated business for which the appellant had no machinery or manufacturing processes for the making of insecticides.

The first appropriator of a trade-mark has the right to the use of the mark not only on the goods in which he deals but also on goods which he may afterwards produce or handle if they have the same essential qualities as those upon which he has been using the mark. *Beck, Koller & Co., Inc.* v. *Bakelite Corp.*, 24 CCPA (Patents) 1290, 1293, 90 F2d 349, 351, 34 USPQ 68, 69, 485 O. G. 516; *Canton Culvert & Silo Company* v. *Consolidated Car-Heating Company*, 44 App. D. C. 491, 226 O. G. 1799.

Appellant in the case at bar has a research division with laboratories in which twenty scientists are employed, divided into six groups. Some of those groups are constantly at work on the improvement of existing commercial products and other groups are employed on products under development. New products are constantly being developed in the research laboratories and thereafter turned over to the new products sales division for promotion.

Appellant already manufactures eight different types of plastic or resinous materials and it is obvious that an expansion of trade to include a ninth would be but a slight expansion and one most likely to occur. Moreover, the plant, equipment, and personnel of appellant appear to be ready for the job. In other words, appellee, has no right to impede appellant in the use of its long and previously established mark in the natural expansion of appellant's business. *Pratt & Lambert, Inc.* v. *Chapman & Rodgers, Inc.*, supra; *Gutta-Percha & Rubber Mfg. Co.* v. *Ajax Mfg. Co.*, 48 App. D. C. 230, 259 O. G. 184; *L. E. Waterman Co.* v *Gordon*, 72 F.2d 272.

There can be no question that the mark of appellee, the newcomer, so nearly resembles the mark owned and in use by appellant in this case as to be likely to cause confusion and deceive purchasers. It is not the difference in the goods which causes the likelihood of confusion; it is the lack of any difference in the marks by which the goods of one of the producers may be distinguished from the goods of the other. *Skol Company, Inc.* v. *Olson*, 33 CCPA (Patents) 715, 151 F.2d 200, 67 USPQ 96, 582 O. G. 491; *Williams* v. *Kern & Sons*, 47 App. D. C. 441, 254 O. G. 866.

The decisions rendered in the case at bar have all held under the Trade-Mark Act of 1905 that there was no likelihood of confusion because the involved goods were not goods of the same descriptive properties. The record discloses that the opposition proceeding here in issue was pending before the Patent Office undetermined, even by the Examiner of Interferences, during the effective period of the Trade-Mark Act of 1905.

The issue here involved was first determined by the Examiner, and subsequently by all others, after the effective date of the Trade-Mark Act of 1946. That act not only repealed all previous acts but also abolished the provision for "merchandise of the same descriptive properties" as a test for the likelihood of confusion. *S. C. Johnson & Son, Inc.* v. *Johnson*, 81 USPQ 509.

Where there is no need to consider whether the involved goods are goods of the same descriptive properties, this court in a proper case has held, for example, that the word "Esquire" previously appropriated as a trade-mark for use on a magazine could not be subsequently appropriated by a newcomer for use on a machine for molding hamburgers. *Holly Molding Devices* v. *Esquire, Inc.*, 32 CCPA (Patents) 935, 148 F.2d 355, 65 USPQ 125, 576 O. G. 4.

Points relied upon in the decisions which have been rendered in this case really have no legal significance. For example, those decisions have dramatized the fact that the smallest container in which appellant's liquid resins were delivered to the fabricators was a two-hundred-pound drum. The drums containing the composition delivered to appellee to be fabricated by appellee into shower curtains likewise might have been the same or larger size. Just what the size of a drum has to do in the determination of the question as to whether the respective compositions are goods of the same descriptive parties is hard to understand.

Furthermore, present marketing methods as to the distribution of appellant's products are not of controlling importance since modern trade practices are subject to change from day to day, and absence of actual confusion in trade is likewise of no importance in an opposition proceeding because the mandate of the statute is directed against the registration of a mark which is likely to cause confusion. *Celanese Corporation of America* v. *E. I. Dupont De Nemours & Co.*, 33 CCPA (Patents) 948, 154 F.2d 146, 69 USPQ 101, 587 O. G. 341.

The case last cited discloses that the Dupont Company produces a cellulose composition sold to fabricators and distributors for resale by them directly or indirectly to the public. In that situation, however, and under a marketing arrangement, the trade-mark "Dupont" is attached by the fabricator

and distributor to the finished product which reaches the ultimate consumer. There is no reason in the case at bar why appellant could not likewise provide for the attachment of its trade-mark "Plaskon" to articles made from that composition.

Appellee has included more than seventy printed pages in the record disclosing numerous different marks registered to third parties. Such registrations are not of aid to one seeking a registration. *Weyenberg Shoe Manufacturing Co.* v. *Hood Rubber Co.*, 18 CCPA (Patents) 1449, 49 F.2d 1046, 9 USPQ 449, 412 O. G. 834.

The citation by the respective parties of numerous prior decisions of this and other courts is likewise of no avail. Such cases are of value only in so far as the principles of trade-mark law are stated and therein applied. *Lactona, Inc.* v. *Lever Brothers Co.*, 32 CCPA (Patents) 704, 144 F.2d 891, 63 USPQ 62, 568 O. G. 386.

It should be noted further that the Court of Customs and Patent Appeals has not considered itself bound by the prior judgments of other courts even in cases where the cited marks were identical, where the goods were identical, and where the ultimate facts in issue were identical. *Van Camp Sea Food Co. (Inc.)* v. *The Alexander B. Stewart Organizations*, 18 CCPA (Patents) 1415, 50 F.2d 976, 9 USPQ 541, 412 O. G. 274; *Ex parte Westgate Sea Products Co.*, 84 USPQ 368.

For the reasons hereinbefore stated, the decision of the Commissioner of Patents should be reversed.

U. S. Court of Customs and Patent Appeals

IN RE DALTON ET AL.

No. 5702. Decided June 30, 1950

[183 F.2d 75; 86 USPQ 401]

1. PATENTABILITY — INVENTION — DOCTRINE OF EQUIVALENTS.
   Held that the doctrine of equivalents is applied when a claim offers but minor changes in the disclosure of the prior art or adds nothing to it but insubstantial substitutions or equivalents.
2. SAME—PARTICULAR SUBJECT MATTER—ELECTROSENSITIVE RECORDING PAPER.
   Certain claims to an electrosensitive recording paper *Held* patentable over the prior art since the claims admittedly do not read thereon nor suggest a paper having the combination of elements or advantages of the appellant's product.

APPEAL from Patent Office. Serial No. 405,916.

REVERSED.

Marvin J. Reynolds (*John J. Rogan* and *Ralph B. Stewart* of counsel) for Dalton et al.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner finally rejecting, as unpatentable over the cited prior art, all of the claims, 13–20, in appellants' application for a patent on alleged new and useful improvements in facsimile recording paper of a character particularly adapted for use in high speed telegraph systems.

The references relied upon by the Examiner were: Kline, 2,251,742, Aug. 5, 1941; Wise, 2,294,146, Aug. 25, 1942; Finch, 2,310,946, Feb. 16, 1943; Davenport et al., 2,328,198, Aug. 31, 1943.

The patents to Wise and Finch are the only references here involved, the others having been specifically rejected by the Board.

Claims 13 and 15 are regarded as illustrative. They read:

> 13. An electrosensitive recording paper comprising a nonconductive paper base, said paper base having on one surface thereof an adherent electrically conductive coating, said conducting coating having thereon a thin adherent surface coating of such character as to be burned away in elemental areas thereof by the application thereto of electrical marking currents whereby to expose said conductive coating.
>
> 15. An electrosensitive recording paper comprising a nonconductive paper base, said paper base having thereon a thin electrically conductive coating containing an adhesive water soluble binder, said conductive coating having thereon a surface coating of such character as to be disintegrated in elemental areas thereof when subjected to electrical marking currents, said surface coating containing an adhesive non-water soluble binder.

The limitations of claims 15 and 16 call for different types of binders in the conductive coating and the surface coating, and claim 20 calls for a metallic compound having the property of increasing the sensitivity of the surface coating to marking potentials.

The alleged invention was succinctly outlined by the Board as follows:

> The appealed claims describe an electrosensitive paper for facsimile recording, comprising a base of ordinary white paper, which is non-conducting, having on one surface thereon, an electrically conducting adherent layer or coating. The conducting layer is disclosed in the specification as being gas black, with a suitable binder. A second coating, defined in the claims as capable of being "burned away" or "disintegrated" when subjected to electrical marking currents, covers the conducting layer. The second coating is composed of a white pigment such as zinc oxide and a binder therefor.

The patent to Wise relates to an electrosensitive recording paper, which may comprise a sheet of paper impregnated with marking particles, such as carbon, for use principally in high speed telegraph and facsimile systems, as, for example, in picture transmission systems. The reference, as noted in the decision of the Board, clearly discloses a paper base coated with an electrically conductive layer as called for by each of the appealed claims. A recording medium, which may be an ordinary sheet of writing paper, is placed over the impregnated sheet of paper, or an electrically conductive layer. The recording medium or sheet of paper thus placed over the impregnated sheet, according to the tribunals of the Patent Office, essentially constitutes "a thin adherent surface coating" therefor, as called for in the claims.

The Board also held that the recording medium disclosed by Wise is the full equivalent of a coating surface of such a character as to be burned away or disintegrated by the action of the marking currents, as called for by the appealed claims, since that medium, according to the disclosure of Wise, is subjected to a disruptive discharge, when the electrosensitive material is employed without the insulating layer or sheet provided by Wise.

The patent to Finch relates to an electrosensitive recording paper for facsimile reception. The paper is discolored by the action of an electric current passing through it thereby effecting the production thereon of pictures or printed matter. Finch uses a base material or recording paper having uniform conductivity. The paper is saturated with carbon and an electrosensitive coating containing a cellulose derivative binder and a whiting agent or pigment is applied to the carbonized paper. A small amount of aniline hydrochloride may be used as an acid in sharpening the image by improving the sensitivity of the coating.

The claims were divided into two groups. Those of the first group, 13, 14, 17, 18, and 19, were rejected by the Board as not distinguishing patentably over the disclosure of the patent to Wise; and the claims of the second group, 15, 16, and 20, were rejected on Wise in view of Finch.

The Board in rejecting the claims frankly admitted that the recording sheet or medium disclosed by Wise is not adherent with the carbon coating as defined by the limitation to that effect in the appealed claims. The Board held, however, that such difference constituted no patentable distinction, and, furthermore, that one of the modified figures of the Wise patent disclosed a coating applied by means of a binder in the use of an outer layer or coating deposited from an ink or paint containing a suspended pigment.

In summary, it was the position of the Board that appellants, in drawing the claims of their application, had merely effected a substitution of equivalents for the features disclosed in the inventions covered by the previously issued patents relied upon here as the art of record.

[1] The doctrine of equivalents is applied when the words of a claim presented for allowance by an applicant for a patent describe an invention disclosed in a patent previously granted. Such language need not include every literal detail or duplication of the patented disclosure. The doctrine becomes effective when the claim offers but minor changes in the patented disclosure or adds nothing to it but insubstantial substitutions or equivalents. *Graver Tank & Mfg. Co., Inc.* v. *The Linde Air Products Co.*, 339 U. S. —, 85 USPQ 329, 636 O. G. 5; *In re Stover*, 32 CCPA (Patents) 823, 146 F.2d 290, 64 USPQ 186, 573 O. G. 367.

The long list of advantages and desirable results which appellants attribute to the subject matter of their appealed claims has not been questioned. The sole question presented is whether the limitations of the contested claims are such that they include or remove the claims from the application of the doctrine of equivalents.

It should be noted that the Board not only rejected as inapplicable half of the references relied upon by the Examiner, but also specifically reversed the Examiner's rejection of the claims on the ground of alleged indefiniteness and undue breadth. Furthermore, on the question of equivalents, the Solicitor for the Patent Office has acknowledged in his brief that:

> the Board in its decision appears to have considered the term "adherent" modifying the coating material to mean something distinct from that which is accomplished by placing the paper sheet on the conductive layer—for the decision states that "the fact that the paper (3) in Wise is not adherent with the carbon coating is a difference which is noted, but is not considered as involving a patentable distinction" * * *.

Moreover, such recording sheet does not appear to be the full equivalent of a coating which may be burned away or disintegrated by the action of the marking currents, as defined in the first group of the rejected claims, since the recording sheet or medium of Wise operates in a different manner to produce a different result from the result produced by the adherent surface coating of the recording paper of the appealed claims.

The rejection of claims 15 and 16 on the stated ground that the binders defined therein are well known for use in facsimile papers does not appear to be sound for the reason that the different properties which the binders defined by the limitations of those claims impart to the different coatings in which they are used produce a new and improved result. Finally, the sensitizing agent defined in claim 20 produces a new and useful result in a new combination of elements.

[2] The appealed claims admittedly do not read on the references and such references do not disclose or suggest a unitary composite recording paper having the combination of elements or the advantages of the product defined by such claims. Under the circumstances, the invention of the appealed claims merits the reasonable patent protection for which the claims call.

For the reasons hereinbefore stated, the decision of the Board of Appeals is reversed.

REVERSED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,011,232, Parks & Hildenbrand, Folding carton, filed Oct. 4, 1950, D. C. Minn. (Duluth), Doc. 1089, *Noloz Co. of America* v. *Van Vick Paper Box Co.*

2,042,736, E. Schwartz, Talking device; 2,183,777, same, Sound reproducing device, filed Sept. 28, 1950, D. C., S. D. N. Y., Doc. 61/126, *D. & D. Co.* v. *Sound Publicity Corp.*

2,058,612, C. E. Methudy, Ignition device for gas stoves; 2,072,034, Geurink & Schulte, Gas range lighter and control; 2,115,370, Marvin & Matthews, Top lighter, filed Oct. 5, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27749, *Harper-Wyman Co.* v. *Patrol Valve Co. et al.*

2,072,034. (See 2,058,612.) 2,115,370. (See 2,058,612.)

2,183,777. (See 2,042,736.)

2,280,626, F. A. Carpenter, High-low pressure pumping system, filed Sept. 29, 1950, D. C., N. D. Calif. (San Francisco), Doc. 30041, *Berkeley Pump Co.* v. *Jacuzzi Bros., Inc.*

2,294,434, A. B. Wilson, Method and apparatus for forming Venetian blind slats and strip material therefor; 2,338,678, same, Method of and apparatus for forming Venetian blind slats; 2,315,640, Morse & Morse, Venetian blind slat, appeal filed Oct. 5, 1950, C. C. A., 4th Cir., Richmond, Doc. 6176, *Eastern Venetian Blind Co.* v. *Acme Steel Co.*

2,315,640. (See 2,294,434.) 2,338,678. (See 2,294,434.)

2,347,988, O. J. Burke, Valve construction, suit for declaratory judgment filed Oct. 5, 1950, D. C., S. D. N. Y., Doc. 61/195, *J. D. Langdon* v. *B. T. Vacuum Breakers, Inc., et al.*

2,407,276, Hendel & Stupelli, Shock absorber for hydraulic systems, filed Oct. 3, 1950, D. C., E. D. N. Y., Doc. 11122, *Ra-Rich Mfg. Corp.* v. *Metropolitan Furnace Co. et al.*

2,435,860, Wilkenfeld & Wilkenfeld, Bust form, filed Sept. 18, 1950, D. C., S. D. N. Y., Doc. 61/40, *L. Wilkenfeld et al.* v. *R. H. Macy & Co., Inc.*

2,445,322, M. C. Fridolph, Body garment, filed Oct. 4, 1950, D. C., S. D. N. Y., Doc. 61/181, *I. Newman & Sons, Inc., et al.* v. *Futura Creations, Inc.*

2,459,880, G. Hill, Bed-rail extension, filed Oct. 2, 1950, D. C. Minn. (Minneapolis), Doc. 3492, *The Long Boy Co.* v. *Bechik Products, Inc.*

2,491,463, L. W. Brooks, Electrical connector fixture; T. M. 234,653, Noma Electric Corp., Christmas tree lighting outfit; T. M. 250,259, same, Christmas-tree holder, filed Oct. 2, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1378, *Noma Electric Corp.* v. *Iron Fireman Mfg. Co., Inc., et al.*

2,495,579, Ferris & Klancnik, Jr., Antenna, D. C., N. D. Ill. (Chicago), Doc. 50c228, *W. T. Ferris et al.* v. *F. Gold.* Consent judgment, defendant enjoined Oct. 2, 1950.

2,504,777, F. S. Wreford, Welding cable, filed Oct. 3, 1950, D. C., E. D. Mich. (Detroit), Doc. 9828, *Uniflex Cable Co. et al.* v. *M. G. Rees, Inc.*

2,523,885, M. L. Tannenbaum, Combination cap and glareproof goggle, filed Oct. 5, 1950, D. C., S. D. N. Y., Doc. 61/197, *A. S. Springer et al.* v. *Clearsite Corp. of America, Inc.*

Des. 157,269, J. F. Laskowitz, Chair, filed Sept. 11, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12258–WM, *Contour Chair-Lounge Co., Inc., et al.* v. *Craft Furniture Mfg. Co. et al.*

Des. 158,974, A. Kono, Spectacle frame, filed Oct. 5, 1950, D. C., S. D. N. Y., Doc. 61/198, *The Kono Mfg. Co.* v. *Nu-Site Optical Frame Mfg. Co., Inc.*

Des. 159,183, A. Benjamin, Extensible band for a watch bracelet, D. C., N. D. Ill. (Chicago), Doc. 50c1124, *J. Major Co.* v. *Steelcraft Co. et al.* Consent judgment holding non-infringement and granting injunction Sept. 26, 1950.

Des. 160,076, B. M. Craig, Antenna insulator, filed Sept. 28, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12349–WM, *Walter L. Schott Co.* v. *Central Industries Corp. et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 112,980. (See T. M. 341,044.)

T. M. 118,132. (See T. M. 341,044.)

T. M. 155,189. (See T. M. 341,044.)

T. M. 155,190. (See T. M. 341,044.)

T. M. 210,122, Victor Talking Machine Co., Radio apparatus, etc., filed June 26, 1950, D. C., E. D. Pa. (Philadelphia), Doc. 11104, *R. C. A.* v. *Victor Television Service, Inc.* Consent judgment granting injunction Sept. 27, 1950.

T. M. 234,653. (See 2,491,463.)

T. M. 250,259. (See 2,491,463.)

T. M. 341,044, American Automobile Association, Inc., Shipping boxes, travel library containers, etc.; T. M. 341,529, same, Typewriter ribbons and carbon paper; T. M. 341,530, same, Portfolios, card, cases, etc.; T. M. 341,577, same, Key rings; T. M. 341,578, same, Tire covers; T. M. 342,144, same, Printed maps, signs, decalcomanias, etc.; T. M. 342,145, same, Electrical advertising signs; T. M. 342,479, same, Ash trays; T. M. 343,877, same, Writing paper, pens, pencils, etc.; T. M. 344,376, same, Street signs, medals, buttons, etc.; T. M. 344,381, same, Overalls, raincoats, etc.; T. M. 112,980, same, Printed touring and route information, etc.; T. M. 118,132, same, Monthly magazine; T. M. 155,189, same, Printed maps, pamphlets, etc.; T. M. 155,190, same, Maps, books, etc., filed Oct. 4, 1950, D. C., S. D. N. Y., Doc. 61/179, *The American Automobile Association, Inc.* v. *I. Fromer.*

T. M. 341,529. (See T. M. 341,044.)

T. M. 341,530. (See T. M. 341,044.)

T. M. 341,577. (See T. M. 341,044.)

T. M. 341,578. (See T. M. 341,044.)

T. M. 342,144. (See T. M. 341,044.)

T. M. 342,145. (See T. M. 341,044.)

T. M. 342,479. (See T. M. 341,044.)

T. M. 343,877. (See T. M. 341,044.)

T. M. 344,376. (See T. M. 341,044.)

T. M. 344,381. (See T. M. 341,044.)

NOTICES

Adjudicated Patents

(C. A. Kans.) Shaffer Patent No. 2,211,173, for pipe coupling, *Held* invalid. *Shaffer* v. *Armer*, 184 F.2d 303; 86 USPQ 427.

(D. C. Iowa) Hunt Patent No. 2,300,157, for feather-picking apparatus for fowls and the like. Claims 2, 3, 7, 8, 10, 12, 14, 17, and 19 *Held* valid and infringed. *Hunt* v. *Priebe & Sons*, 92 F. Supp. 767; 86 USPQ 447.

Interference Notice

Roth Creations, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Walter Hertz, 90 Rue Dupont, Brussels, Belgium, for registration of a trade-mark and Registration No. 301,749, issued March 14, 1933, to Roth Creations, Incorporated, 30 East 33rd Street, New York, N. Y., and the notice of such declaration sent by registered mail to the said Roth Creations, Incorporated at the said address having been returned by the post office undeliverable, notice is hereby given that unless Roth Creations, Incorporated, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

Nov. 8, 1950. THOMAS F. MURPHY, *Assistant Commissioner of Patents.*

Disclaimer

2,467,325.—*Warren P. Mason*, West Orange, N. J. ELECTROOPTICAL LIGHT VALVE OF AMMONIUM DIHYDROGEN PHOSPHATE CRYSTAL. Patent dated Apr. 12, 1949. Disclaimer filed Oct. 19, 1950, by the assignee, *Bell Telephone Laboratories, Incorporated.*

Hereby enters this disclaimer to claims 1 and 13 of said patent.

Cancellation Notice

Howard D. Parsons, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Muzak Corporation, 229 Fourth Avenue, New York 3, New York, to effect the cancellation of trade-mark registration of Howard D. Parsons, 3337 Wyandotte Street, Kansas City, Missouri, No. 519,369, dated December 27, 1949, and the notice of such proceeding sent by registered mail to the said Howard D. Parsons at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Howard D. Parsons, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

Nov. 9, 1950. THOMAS F. MURPHY, *Assistant Commissioner of Patents.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,288,688. MAGNETIC LOCK. Patented July 7, 1942. Lock for handbags, cases, and the like consists of a pair of hinged members overlapping in a closed position. A permanent magnet mounted in each member cooperates magnetically when parts engage each other. One magnet is adjustable to exert a magnetic attraction or repulsion upon other magnet in the closed or open position of the lock. (Owner) William Dubilier, 10 East 40th St., New York 16, N. Y. Groups 31—61—71; 33—59. Reg. No. 38,905.

Pat. 2,490,246. ANODE CONSTRUCTION. Patented Dec. 6, 1949. This patent provides an X-ray generating target of readily soluble metal in substantially pure condition. Electron target structure comprises a base of copper (or other metal readily soluble with germanium). A cavity formed at one end of the base is fitted with a cup-shaped liner of manganese (or other metal not easily soluble with germanium). A button of germanium is disposed within the liner and is metallurgically integrated with the liner, but isolated from the base. (Owner) General Electric X-ray Corporation, 4855 West McGeoch Ave., Milwaukee, Wis. Group 36—92. Reg. No. 38,906.

Pat. 2,497,479. ROTATING VACUUM SEAL. Patented Feb. 14, 1950. Relates to a seal against vacuum leakage of the tube of an X-ray generator having a rotating anode, the driving shaft of which extends through the wall of the tube. Consists of a sleeve-like extension which defines a chamber around the anode shaft and forms a part of the tube itself. Seal includes a pair of cooperating metal rings, one mounted on the shaft to form an annular seal against fluid leakage and facing into the chamber, and the other on the extension and forming a running seal. One of the rings is yieldingly supported on a metal bellows. (Owner) General Electric X-ray Corporation, 4855 West McGeoch Ave., Milwaukee, Wis. Group 36—92. Reg. No. 38,907.

Pat. 2,521,490. COMPOUND NOZZLE. Patented Sept. 5, 1950. Nozzle is adjustable to effect quick change from a stream to a spray, or vice versa. It has two longitudinal passageways and a valve body rotatably retained in its inner end for connection to a hose. Valve body is formed with an angular through passage. Nozzle may be rotated about the valve body to bring either of the longitudinal passageways into alignment with the inner end of valve passage, or rotated to "off" position to prevent flow into the passageways. When nozzle is rotated to any selected position, a spring-pressed ball will enter a slot to hold it in that position. (Owner) John T. Strauss, 457 Clifton St., Los Angeles 31, Calif. Group 33—59—61. Reg. No. 38,908.

Pat. 2,518,060. SHOWER BATH CABINET WITH ROTARY CLOSURE MEANS. Patented Aug. 8, 1950. To prevent undesirable splashing of water on exterior walls and floors, valves which control the flow of water are inaccessible to bather unless stall is closed. Stall has an outset recess which accommodates the shower controls, and an entrance which may be closed by a pair of complementary curved sliding rotary doors. Overhead and lower tracks are mounted on the doors and supported by a series of circumferential rollers journaled in the cabinet. Particularly intended for use in hotels and other public establishments, or adapted for home use. (Owner) David T. Pickles, Washington, N. C. Group 33—61. Reg. No. 38,909.

Pat. 2,486,502. APPARATUS FOR METEOROLOGICAL INSTRUCTION. Patented Nov. 1, 1949. Instructional device for demonstrating the progress of climatic conditions within and over a selected geographical area. The device consists of a map (which serves as a base) used in conjunction with a pair or more of transparent charts, the surfaces of which are imprinted with representations of mobile climatic conditions. The charts are used together as a movable unit, one horizontally to indicate weather conditions at ground level, the other vertically to show weather conditions above ground level within the same area. (Owner) Russell R. Spafford, 179 Glenwood Drive West, Clarksville, Tenn. Groups 27—92; 39—11. Reg. No. 38,910.

Pat. 2,510,798. SINGLE WHEEL STEERING MECHANISM. Patented June 6, 1950. Steering post is journaled in the rear ends of a bracket bar and a brace both extending rearwardly from the center of forward cross strut of vehicle chassis. A pin extending through front raised end of bracket bar and center of strut carries a wheel-receiving fork on its lower end. A wheel-supporting axle extending through the lower ends of the fork is connected at its opposite ends by bars to opposite ends of a tie rod, which is secured at its center to lower end of steering post. (Owner) Antone Gus Tassano, % Albert Scalzo, 1705 Castro St., Apt. 8, Oakland, Calif. Group 39—43. Reg. No. 38,911.

Pat. 2,483,942. RAIL JOINT. Patented Oct. 4, 1949. Two overlapping identical connector units are channeled longitudinally to accommodate base and web of a rail. Each connector has an elongated arm which extends beyond joint between the rails. Each arm has a projection to extend beneath end of other arm to provide a firm connector between the rail ends. A wedge is placed between the free end of other arm and flange to hold arm in proper relation to the rail. (Owner) Wilhelmina Sjostrand. Correspondence to Robert M. Dunning, 1612 Pioneer Bldg., St. Paul 1, Minn. Group 33—12. Reg. No. 38,912.

Pat. 2,505,229. METHOD OF SENSITIZING LATEX APPLICABLE TO THE MANUFACTURE OF ARTICLES BY MOLDING AT NORMAL TEMPERATURES. Patented Apr. 25, 1950. Ammoniated latex is subjected to the action of a ferment-generating substance such as pancreatic extract. The product obtained is allowed to ripen, after which a colloidal dispersion of zinc oxide is added. The mixture is poured into molds and gelifies at normal temperatures. The gel possesses cohesion, firmness, and other valuable properties. (Owner) Societe Auxiliaire de l'Institut Francais du Caoutchouc. Correspondence to Wenderoth, Lind & Ponack, 900 F St., N. W., Washington 4, D. C. Group 30—52. Reg. No. 38,913.

Shawinigan Chemicals Limited offers for license on reasonable terms the following two patents, in addition to 24 others previously listed on the Register. Inquiries should be directed to: Shawinigan Chemicals Limited, Patent Department, P. O. Box 6072, Montreal, Quebec, Canada.

Schedule A—Equipment

Pat. 2,521,207. GASEOUS REACTION FURNACE AND CONTROLLER. Patented Sept. 5, 1950. A control system for electrically heating a furnace for carrying out gaseous reactions in which two or more zones at different temperatures are required, e. g., the production of ketene. The control system permits the temperature differential between the various zones to be maintained automatically while the temperature at a selected point is also automatically maintained. Group 36—19. Reg. No. 38,914.

Pat. 2,521,215. PROCESS OF AND APPARATUS FOR DISPERSING AN AERIFORM BODY IN A LIQUID BODY. Patented Sept. 5, 1950. A process for dispersing a gas into a liquid by the use of two centrifugal pumps in series. This arrangement permits a large increase in the gas input capacity without impairing the liquid circulation rate, as compared with the single pump system. Group 35—61. Reg. No. 38,915.

The following two patents are available for sale only. Inquiries concerning the patents should be directed to Frank Cozzoline, Receiver of Bow Arch Corporation, 744 Broad St., Newark 2, N. J.

Pat. 2,251,578. ROOF TRUSS. Patented Aug. 5, 1941. Laminated truss beam is constructed to withstand stresses and strain and to allow the beam to be tightened as may be required from time to time. The beam consists of built-up arched lower and upper chords, the extremities of which are fanned out in step relation and received in recesses and shoulders of a foot plate. Struts are interposed between the chords. The whole structure is effectively maintained in assembled relation by tie bolts. Groups 25—99; 33—12. Reg. No. 38,916.

Pat. 2,314,370. MARINE PROPULSION. Patented Mar. 23, 1943. Twin propellers are so mounted with respect to the rudder that a boat equipped with the propellers will continue to travel straight ahead in the event that either propeller should become ineffective. The propellers are positioned forward of and to the opposite sides of the rudder post so that the wash from each of the propellers strikes the center of the rudder. Group 37—31. Reg. No. 38,917.

Pat. 2,510,380. MOVING TARGET GAME. Patented June 6, 1950. An endless belt moving at a constant speed carries upright animal cutout figures of different sizes, the figures moving within a defined target area a predetermined number of times. Each figure includes a rear contact adapted to energize an automatic cumulative score-recording mechanism when a target is hit. The figures, which assume a reclining position after being hit, are reset before being returned to the target area. A further feature of the game is that hazards hit outside the scoring area result in loss of score in that the recording mechanism is returned to the zero position. (Owner) George Clifford, Route 4, Box 535, Mount Clemens, Mich. Group 39—49. Reg. No. 38,918.

The following five patents are owned by Florence M. Stader, 1040 South State St., Caro, Mich. The first two patents deal with shoulder strap holders; the last three describe removable button fastenings. Groups 33—49—73; 34—51; 39—61—71—99; 40.

Pat. 1,959,505. FASTENER. Patented May 22, 1934. Detachable fastener for lingerie straps prevents slipping of straps from shoulders. A metal stamping bent upon itself provides a body portion and a flat elongated hook portion. Rib at end of hook underlies boss on body portion and forms a strap-receiving pocket. The fastener is attached to shoulder seam of outer garment either by a ribbon or by pointed tabs of fastener bent to engage the seam. Reg. No. 38,919.

Pat. 2,046,589. SHOULDER STRAP HOLDER. Patented July 7, 1936. Clasp for supporting and attaching lingerie straps to shoulder seam of outer garment. A continuous length of wire is bent to form a U-shaped portion for attachment to lingerie straps. A parallel loop at top of U-portion is attached to outer garment. Loop may be sewed to outer garment or the free end may be pointed and pinned to shoulder seam. Reg. No. 38,920.

Pat. 2,107,913. FASTENING DEVICE. Patented Feb. 8, 1938. Fastener for securing buttons or other fastening element to wearing apparel. A continuous length of wire has U-shaped portions insertable into attachment members on fastening element, held therein by an intermediate resilient member, and removed by flexing resilient portion. Parallel loop at side of fastener has pointed end for attachment to garment. In a modified form, fastener has headed portion to extend through central hole in button and engage exposed side of button. Reg. No. 38,921.

Pat. 2,208,283. FASTENING DEVICE. Patented July 16, 1940. Fastener for securing buttons or other fastening elements to wearing apparel. A semi-circular wire extends partially around boss on button and snaps into attachment member on button. Shank extends transversely of base away from button. A loop extending from shank has a pointed end for attachment to an article. A flexible guard sleeved on loop encircles pointed end and is movable around loop to clear the end. Reg. No. 38,922.

Pat. 2,264,597. FASTENER. Patented Dec. 2, 1941. Fastener for securing two articles together, such as attaching buttons to wearing apparel. An elongated wire loop has adjacent parallel parts. One part has a V at center for attachment to button, and its free end is curved to extend partially around pointed end of adjacent part. Flexible guard sleeved upon the loop encircles adjacent parts and pointed end when in operative position. The guard is movable over curved part to clear pointed end. Reg. No. 38,923.

Pat. 2,519,107. CUSHIONING DEVICE FOR C-CLAMPS. Patented Aug. 15, 1950. Resilient pads for clamps, clamping brackets, etc. Bracket usually assumes the form of a reinforcing web carrying an inverted L-shaped flange forming a stationary jaw. The pads, C-shape in cross section, frictionally engage the flange. The movable jaws form clamping heads rotatably mounted on clamping screws. In a modified form the flanges may be dispensed with and the pads secured to the jaws by an adhesive. (Owner) Wayne B. Brown, 1277 North San Gorgonio, Banning, Calif. Groups 28—83; 35—69. Reg. No. 38,924.

Pat. 2,520,668. GAME BOARD FOR PLAYING A SIMULATED GAME OF FOOTBALL. Patented Aug. 29, 1950. Game for two or more players using a set of cards to determine play movement utilizes the rules of football. Game board has a goal post at each end and holes to receive pegs representing the eleven men on each team. A ball indicator representing a football is movable on a wire extending longitudinally of playing field. Groups of indicator arms and indicia-bearing disks parallel to supporting wire are engaged by arms at sides of ball as ball is moved to indicate yardage remaining to be gained to acquire a first down. (Owner) G. W. Wheeler, 88—07 239th St., Bellerose 6, N. Y. Group 39—41. Reg. No. 38,925.

Pat. 2,520,427. RAZING TOOL. Patented Aug. 29, 1950. Tool is designed for use in removing boards, studs, etc., when razing a frame building, with minimum of damage to the board. Consists of a handle and a pair of spaced parallel forks pivotally attached at right angles to a pair of reinforcing arms which are attached to a split collar. Collar encircles the handle and permits angular adjustment of forks. Handle is secured to a spacer member which is positioned between and on both sides of the forks. (Owner) Walter O. Nelson, 725 North Sixth St., Grand Forks, N. Dak. Group 33—52. Reg. No. 38,926.

Pat. 2,519,758. COMBINED IGNITION AND STARTER SWITCH AND LOCK. Patented Aug. 22, 1950. Reg. No. 38,927.

Pat. 2,520,363. COMBINED IGNITION AND STARTER SWITCH. Patented Aug. 29, 1950. Reg. No. 38,928.

Each of these two patents shows a combined ignition and starter switch and lock for automobiles, etc., to prevent unauthorized energization of the starter circuit. A rotary lock cylinder must be turned by a proper key to simultaneously energize the ignition circuit and an accessory circuit, and the lock cylinder then pressed inwardly to energize starter circuit. In Pat. 2,519,758 the lock cylinder may also be turned in the opposite direction to a second operating position to energize only the accessory circuit. A spring for returning the lock cylinder to its normal outward position also functions to assure good electrical contact between the switch elements. (Owner) William A. Heidman, Jr., 949 Breton Rd. E., Grand Rapids, Mich. Groups 36—41; 38—31.

Pat. 2,514,370. DOOR. Patented July 11, 1950. Door consists of two vertical sections connected by double acting hinges, with one of the sections to be hinged to a door jamb by similar hinges. Cables carried by the door are passed through the door jamb, and over pulleys in back of jamb and then secured to a weight. The cables and weight normally maintain the door sections in alignment, and also urge door to closed position. (Owner) Charles E. Bunnell, University of Alaska, College, Alaska. Groups 24—31; 33—83. Reg. No. 38,929.

Pat. 2,507,017. ENAMEL INSULATION STRIPPING TOOL. Patented May 9, 1950. Tool is useful in restricted space to strip enamel insulation from fine wire, such as is employed in electronic equipment, radios, etc. It comprises a U-shaped spring metal band with slidable sleeves on the arms to retain folded strips of abrasive around the outer ends of the arms. In use, arms of tool are brought together so that abrasive strips will grip wire, and tool is drawn along wire, or wire drawn through tool. (Owner) Gothern M. Jenkins, Doniphan, Mo. Groups 33—52; 40. Reg. No. 38,930.

Pat. 2,192,896. MOP CLEANER. Patented Mar. 12, 1940. Sanitary container for cleaning dust mops or similar household devices. A cylindrical container of sheet metal or the like has hinged top with opening to receive mop handle. A removable grid against which mop is tapped is supported on flanges on side walls spaced from bottom of container. Dirt shaken from mop falls into a disposable container. (Owner) Georgina Corson. Correspondence to Mrs. Catherine L. Thompson, 1422 N St., N. W., Washington 5, D. C. Groups 33—73; 34—41—99; 39—81. Reg. No. 38,931.

Pat. 2,503,890. WHEEL POSITIONING DEVICE FOR TOY TRAINS. Patented Apr. 11, 1950. Wheel-aligning device for toys which run on tracks. A tray-like support has a pair of elongated shoulders to overlie the tracks and engage the wheels when the wheels are aligned. Inclined portions adjacent shoulders guide the wheels into alignment so the car may be moved off end of device and drop upon the tracks beneath. May be made of plastic or other insulating materials, or may be formed of metal. (Owner) Julian L. Studer, 124 East Arlon, West St. Paul 7, Minn. Groups 33—73; 39—41—81. Reg. No. 38,932.

Royalty-Free Patent

California Research Corporation obligates itself to grant free licenses under this patent to all responsible parties. It reserves the right to decline to grant licenses to parties who are not in its opinion responsible or qualified to employ the invention. Inquiries concerning the patent should be directed to: California Research Corporation, 200 Bush St., San Francisco 4, Calif.

Pat. 2,517,523. BIOLOGICAL WINDOW. Patented Aug. 1, 1950. Coating the edges of a biological window for living organisms with tantalum, columbium, or zirconium provides a roughened portion that adheres to living biological tissue without slipping. The windows are formed of a transparent non-biological material and are used for corneal transplants and in observing the functioning of internal organs for study purposes in abdominal operations, etc. Group 39—15—16. Reg. No. 38,933.

United States Government Owned Patents

The following patents are the property of the United States as represented by the Secretary of the Interior by virtue of assignments from the inventors, Frank C. Gibson and Frederick W. Brown (Pat. 2,506,587), Louis L. Newman and Jack T. Donovan (Pat. 2,516,141), Paul S. Roller (Pat. 2,504,154), and Henry G. Poole, Sol F. Ravitz, and Karl C. Dean (Pat. 2,520,958). Non-exclusive and royalty-free licenses are available.

Applications for licenses should be directed to: The Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,506,587. VIBRATOR TYPE MULTIPLE-SHOT BLASTING UNIT. Patented May 9, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Portable blasting unit may be used in underground mining where gas ignition hazards exist. The unit includes a vibrator, a transformer, and condenser so arranged that voltage applied is interrupted by the vibrator and multiplied by the transformer before it is rectified by the vibrator to charge the condenser to simultaneously detonate a number of blasts connected in series. The unit is operated by a small battery such as those used on a miner's cap lamp. Group 28—84. Reg. No. 38,934.

Pat. 2,516,141. APPARATUS AND METHOD FOR GASIFYING CARBONACEOUS MATERIAL. Patented July 25, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This patent relates to an apparatus and method for producing a heating and illuminating gas by the action of superheated steam and carbon dioxide on finely pulverized coal or other carbonaceous material. The gasifying apparatus has a series of radial nozzles which jet pulverized coal and oxygen into the reaction zone of the apparatus. The jets are placed so that they impinge upon each other, producing a violent turbulence which intimately mixes the coal and gases. Provision is made for collecting the gas as well as the ash that results from the process. Group 29—22. Reg. No. 38,935.

Pat. 2,504,154. PROCESS FOR REMOVING IMPURITIES FROM MOTHER LIQUORS. Patented Apr. 18, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Essentially, this process involves treating a slurry of barium aluminate, alumina trihydrate, and water in successive cyclic runs to produce a reaction of barium aluminate with sulfate impurity. A precipitate of barium sulfate and alumina trihydrate is secured, separated from the mother liquor, and calcined to regenerate barium aluminate. Group 28—89. Reg. No. 38,936.

Pat. 2,520,958. NICKEL RECOVERY. Patented Sept. 5, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This patent relates to the economical recovery of nickel values from low grade ores of the garnierite type. The ore is reacted with ammonium sulfate at 400° C., and the reaction product formed is leached with a solution of ammonium hydroxide and ammonium carbonate. After separation of insoluble substances, the solution is evaporated, and nickel ammonium sulfate recovered. Reagents employed in the process may be substantially recovered in usable form for recycling through the system. Group 34—19. Reg. No. 38,937.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING OCTOBER, 1950

DISMASTER CORPORATION *v.* BURTON A. BOYAR, 171 Ms. D. 967, 87 USPQ 113, October 9, 1950, Opposition No. 29,314.

Assistant Commissioner Murphy denied opposer's motion for summary judgment on a petition by opposer that the Commissioner exercise his supervisory authority and grant petitioner's motion for summary judgment, which motion had been denied by the Examiner of Interferences.

It was held that as it does not appear that the marks and goods of the applicant and petitioner are identical, a sufficient issue of fact is presented, which cannot be determined as a matter of law raised by a motion for summary judgment, but should be determined in the first instance by the Examiner of Interferences in the manner provided by the statute and the rules for that purpose.

F. JACOBSON & SONS, INC. *v.* JAYBERN FABRICS INC., 171 Ms. D. 970, 87 USPQ 114, October 11, 1950, Opposition No. 27,523.

Commissioner Marzall reversed the decision of the Examiner of Trade-Mark Interferences and held that the applicant is entitled to the registration under the act of 1946 of "JAYBERN" as a trade-mark for piece goods consisting of wool, cotton, rayon and mixtures thereof, over the opposition of the owner of the registered mark "JAYSON" applied to various articles of men's and women's clothing, since confusion or mistake would not be likely with the use of these two differing marks on the specifically different goods.

It was held that prima facie ownership of pleaded registrations was sufficiently established by notice under Rule 154(*e*), then applicable, and making of record sworn copies of assignments to opposer of the registrations, and the registrations establish prima facie prior use of the marks shown in the registrations as applied to the goods specified therein.

In response to applicant's attempt to show that the word "Jayson" is a surname and is used in business by others, it was held that this cannot be considered, since the validity of opposer's registration cannot be raised in this manner, and furthermore, evidence cannot be first introduced by incorporation in a brief on appeal.

GRAYBAR ELECTRIC COMPANY, INC. *v.* BRETTON SHIRT CORP., 171 Ms. D. 972, 87 USPQ 119, October 13, 1950, Opposition No. 28,825.

Commissioner Marzall affirmed the decision of the Examiner of Trade-Mark Interferences dismissing on motion the notice of opposition to the registration of "GRAYBAR" under the act of 1946 as a trade-mark for men's outer shirts and jackets, based upon prior use of the same word as a trade-mark for electrical equipment and appliances, and as opposer's corporate title or trade name.

It was held that no error from the procedural standpoint is found in the consideration of the motion by the Examiner of Interferences, as a motion under Rule 12(*b*) of the Federal Rules of Civil Procedure, although if the motion might be regarded as one for summary judgment under Rule 56, it does not appear that there would be any difference in its treatment.

It was held that from the facts pleaded, namely applicant's use of the mark on men's outer shirts and jackets and opposer's prior use of the mark on electrical equipment and appliances, the notice of opposition does not support a cause of action, since, without anything further, there is not established any reasonable inference of likelihood of confusion.

THE REESE CHEMICAL COMPANY *v.* LEONARD E. LISNER, 171 Ms. D. 968, 87 USPQ 121, October 16, 1950, Cancellation No. 5390.

Commissioner Marzall returned the case, before him for issuance of formal order to carry into effect the recommendation of the Examiner of Interferences to restrict Registration No. 282,935 so as to eliminate all goods recited therein with the exception of hair tonic, to the Examiner of Interferences for making such decision on the facts and briefs of record, and the hearing already held, as he may deem justified, not inconsistent with the opinion, holding that in circumstances such as presented here the Office should cancel the registration entirely, rather than restrict it, since merely restricting it would carry an implication of condonation of the false facts made in the application for registration, as to use of the mark, and may also carry an implication that the Office considers the registration valid after it has been limited.

BAXTER LABORATORIES, INC. *v.* DON BAXTER, INC., 171 Ms. D. 974, 87 USPQ 122, October 17, 1950, Opposition No. 27,960.

Commissioner Marzall affirmed the decision of the Examiner of Interferences sustaining the opposition, based on opposer's assertion that it is entitled to the exclusive use of the mark in 37 eastern States and denying that the two companies are related companies, and holding that applicant is not entitled to the registration for which it has made

application on the Principal Register, the word "BAXTER," as a trade-mark for certain medicinal preparations, and in addition, further rejected the application ex parte for stated reasons.

It was held that Don Baxter, Inc., does not control the nature and quality of the goods in connection with which Baxter Laboratories uses the mark, and hence the two companies are not related companies within the definition of the statute.

In response to opposer's objection to the consideration of concurrent use on the ground that the application is not in proper form for such consideration, and that opposer has not received the notice required by the statute of the application for registration as a concurrent user, it was held that this matter should not be considered as an inter partes question at this time, but certain phases of this question would be considered ex parte.

After pointing out three situations contemplated by the application, it was held that applicant is not entitled to the registration for which it has made application, considering the application as one for registration as a concurrent user. In view of the presence of these fundamental defects, it was further held that it is not practically possible to consider the third situation contemplated by the application.

EX PARTE B. A. RAILTON COMPANY, 171 Ms. D. 982, 87 USPQ 126, October 18, 1950.

Assistant Commissioner Murphy denied a petition to direct the Examiner of Trade-Mark Operations to republish Registration No. 179,888, originally setting forth the particular description of the goods to which the trade-mark is applied as CANNED FRUITS—NAMELY, PEARS, GRATED PINEAPPLE, SLICED PINEAPPLE, ETC.; CANNED VEGETABLES—NAMELY, STRINGLESS BEANS, RED BEANS, KIDNEY BEANS, ETC.; as well as other categories, by stating simply CANNED FRUITS, CANNED VEGETABLES, and other categories; and not indicating those specific items listed in the original registration to which it may no longer be applied.

It was held that where an applicant has set forth in his original registration the particular goods on which the mark is used, the statute (section 12(*c*) of the Trade-Mark Act of 1946) requires that for purposes of republication the applicant point out on which of these items the mark is now applied.

EX PARTE BLUE LAKE PRODUCERS COOPERATIVE, 173 Ms. D. 8, 87 USPQ 168, October 24, 1950.

Examiner-in-Chief Federico affirmed the decision of the Examiner refusing to register on the Supplemental Register, under the Trade-Mark Act of 1946, the mark "Oregon's Finest" for canned and frozen vegetables on the ground that the mark is confusingly similar to a mark, consisting of the words "Oregon Fruit Products," previously registered under the act of 1920 for canned fruits, fruit preserves, and fruit jams.

EX PARTE PAUL BOILLAT, 171 Ms. D. 992, 87 USPQ 167, October 24, 1950.

Examiner-in-Chief Federico affirmed the decision of the Examiner refusing to register applicant's mark "FLUDO" for watches and parts of watches, in view of the prior registration of "FLEVO" for watches.

It was held that the marks are too similar to eliminate the likelihood of confusion, for while the center portions of the words differ, the beginnings and endings are identical and it would appear that the overall similarities outweigh the differences in the marks.

EX PARTE BREEZE CORPORATIONS, INC., 171 Ms. D. 987, 87 USPQ 165, October 24, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration upon the Supplemental Register under the Trade-Mark Act of 1946 of the word "MONOBLOC," as a trade-mark for electrical connectors, in view of three prior registrations disclosing the trade-mark "Monowatt" for goods described as electric cord sets, bell ringing transformers, electric lamp sockets, electric plug connectors, electric fuses and electrical connectors; the trade-mark "Monolite" for electric wiring devices for houses and similar buildings, in the nature of switches, receptacles, plug caps, sockets and connectors, and the like; and the trade-mark "Monopull" for electrical connectors.

It was held that the Examiner was correct when he stated that purchasers of registrant's connectors sold under the marks "MONOPULL," "MONOLITE," and particularly "MONOWATT," might well assume that connectors sold under the names of "MONOBLOC" are companion products of the same manufacturer.

CONTINENTAL COFFEE COMPANY, INC. *v.* THE DAN PERKINS COMPANY, 171 Ms. D. 994, 87 USPQ 161, October 24, 1950, Opposition No. 27,898.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the notice of opposition, based upon ownership of the registered trade-mark "FLAVORITE" for noodle soup mix, to an application for registration of the word "FLAVORITE" as a trade-mark for a liquid composed of pyroligneous acid (refined wood smoke), caramel coloring and spices used for painting meats for the purpose of coloring, preserving and flavoring them, under the Trade-Mark Act of 1905.

It was held that the goods of the two parties are not of the same descriptive properties.

Applicant's cross-appeal from the holding that the question of estoppel, which applicant sought to invoke, was inapplicable to this case was dismissed, since the accepted practice of the Patent Office has been to dismiss the cross-appeal of the winning party but to permit the winning party to urge in his brief on appeal any matter of record.

It was held that the doctrine of estoppel applicant seeks to invoke is inapplicable because there

is no showing on the record that applicant has relied upon any act of the opposer, to his detriment; nor does it appear that there are other circumstances which clearly make the doctrine of equitable estoppel applicable in the present case.

EX PARTE JOSEPH J. O'LEARY (DOING BUSINESS AS O'LEARY'S FIRE PREVENTION CO.), 171 Ms. D. 989, 87 USPQ 167, October 24, 1950.

Examiner-in-Chief Federico affirmed the decision of the Examiner refusing to register to the applicant a mark consisting of the words "On Watch" above the representation of a dog in an expectant or watchful attitude as applied to electrically operated fire alarm apparatus, in view of prior Registration No. 245,765 disclosing the words "The Modern Watch Dog," for systems of burglar and fire alarms.

It was held that the goods of the applicant and the prior registrant are substantially the same, and as a whole, the marks are closely related in sound and appearance, and also in meaning or connotation.

REX CUTLERY CORPORATION *v.* LOUIS ELOI PERNET, 171 Ms. D. 990, 87 USPQ 166, October 24, 1950, Opposition No. 27,987.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Interferences dismissing the opposition, based upon prior use of the mark "JOY" as applied to various types of scissors, tweezers, and manicure implements, to the registration, under the act of 1905, for cutlery of base metal for household use, namely, carving knives, paring knives, forks and spoons, of a mark consisting of the notation "L P ELOI," the "L" and "P" being written in a monogram above the "Eloi" which is written along an arc and the whole being written in a distinctive type.

It was held that the marks are so different that there would be likelihood of confusion in trade.

In passing upon opposer's contention that the application should be refused on the ground that the mark is merely the name of an individual, it was held that a publication, referred to in a notice under Patent Rule 282, would not be considered, since the notice was filed more than four months after the time for taking testimony had closed, although it was remarked that the same ground and the same or a similar publication were considered by the Examiner in the ex parte prosecution of the application.

In re application of MAAS & WALDSTEIN COMPANY, 171 Ms. D. 999. 87 USPQ 164, October 25, 1950, Proposed Opposition.

Assistant Commissioner Murphy denied a request for an extension of the two months of the time within which notice of opposition might be filed, the request being made in accordance with section 13 of the Trade-Mark Act of 1946 and Trade-Mark Rule 20.2.

It was held that since section 13 of the Trade-Mark Act of 1946 and Rule 20.2 thereunder apply to registrations of marks upon the Principal Register, and that since no action has been taken to bring this application under the 1946 act, proceedings thereon are governed by the Trade-Mark Act of 1905, so that the Commissioner has no authority to extend the period set by section 6 of the Trade-Mark Act of 1905 for the filing of a notice of opposition.

EX PARTE FOILRAPP, INC. (ASSIGNEE OF A. FRISTOE NELSON), 173 Ms. D. 1, 87 USPQ 170, October 25, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing the registration of applicant's trade-mark "Foilrapp" on the ground that it is descriptive of the goods, namely, aluminum foil in packaged roll and flat sheet form.

It was held that there is nothing incongruous about the word "Foilrapp" or anything unusual about the particular sequence in which the two words are used, but on the other hand, the mark is descriptive of a characteristic of the material to which the mark is applied both as to nature and use.

EX PARTE THE STADLER PRODUCTS COMPANY, 173 Ms. D. 3, 87 USPQ 163, October 25, 1950.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Marks refusing to register, on the Supplemental Register under the Trade-Mark Act of 1946, as a trade-mark for lawn and tree food, a mark consisting of three X's pierced by an arrow surrounded by a series of concentric circles and prominently displayed therein, with the name "STADLER'S" appearing in the top portion of the circle and the words "TRIPLE-X" appearing in the lower portion of the circle, and the words "SOIL-BIL-DER" appearing in the lower portion of the circle, on the grounds that the mark as a whole is anticipated by prior registrations for fertilizers, one showing the mark "XXX" in bold letters and the other showing "XXX" in shaded block letters with the word "TRIPLE" across the central portion of the middle X, and that "SOIL-BIL-DER," which obviously is intended as a phonetic misspelling of "soil builder," constitutes a generic term and is therefore publici juris.

It was held that the addition of the surname "STADLER'S" to the mark, which is otherwise confusingly similar to the earlier marks, is not in itself sufficient to avoid the likelihood of confusion.

It was held that prior registrations of similar trade-marks are without effect in considering the question of confusing similarity.

It was held that the Examiner was correct in his refusal to set up an interference with the registration "Simplot Soil-Builder," registered under the provisions of the act of March 19, 1920, in view of sections 26 and 46*b* of the act of 1946.

SMITH, KLINE & FRENCH LABORATORIES *v.* CHIPMAN CHEMICAL COMPANY, INC., 171 Ms. D. 997, 87 USPQ 169, October 25, 1950, Opposition No. 27,994.

Examiner-in-Chief Klinge reversed the decision of the Examiner of Interferences, who had sustained the opposition, based on prior ownership and registration of the trade-mark "BENZEDREX" for certain remedial agent for use by human beings, for registration on the Principal Register under the act of 1946 of the term "BENZAHEX" as a trade-mark for agricultural insecticides and fungicides.

It was held that the goods to which the marks are applied constitute very widely different types of materials both as to use and the manner in which they are packaged; and that one would not ordinarily expect a drug house to be the manufacturer of insecticides and fungicides for agricultural purposes simply because drugs and insecticides are chemical compositions or compounds, so that, while the difference in the marks is not great, yet considering the more extensive difference in the character and use of the goods, confusion would not be likely to occur.

BOTANY MILLS, INC. *v.* LANOLIN PLUS COSMETICS, INC., 173 Ms. D. 9, 87 USPQ 217, October 26, 1950, Opposition No. 26,917.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the notice of opposition, based on descriptiveness and/or misdescriptiveness of the marks as applied to soap, to an application for the registration of the notation "LANOLIN PLUS," with the word "LANOLIN" disclaimed apart from the mark as shown, as a trade-mark for toilet and laundry soaps, under the Trade-Mark Act of 1905, and also affirmed the dismissal of applicant's counterclaim to cancel the trade-mark of the opposer, Registration No. 390,858, "BOTANY" as applied to soap, the grounds of the counterclaim being the same as the grounds for the opposition.

It was held that soaps containing lanolin such as applicant's are essentially goods of the same descriptive properties as cosmetics containing lanolin.

It was held that the fact that opposer admittedly had a trade-mark, No. 390,858, on soaps at the time the opposition was filed, which mark applicant seeks to cancel by his counterclaim, and the fact that applicant alleged in his counterclaim that petitioner is a competitor with the respondent in the sale of soaps, is sufficient to establish that they were in competing businesses, and hence that damage would be likely to result.

It was held that the fact that applicant brought Registration No. 390,858 into this record by way of his counterclaim overcame any technical shortcoming existing as a result of opposer's alleged failure to act to make the registration properly of record.

It was held that "BOTANY" is not descriptive of opposer's soaps if they contain vegetable oils, and it is not misdescriptive thereof if they do not contain vegetable oils.

SMITH, KLINE & FRENCH LABORATORIES *v.* ROSE STARR, 173 Ms. D. 5, 87 USPQ 172, October 26, 1950, Opposition No. 27,965.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Interferences dismissing the opposition, based upon opposer's prior registration for the trade-mark "DEXEDRINE" applied to a medicinal agent to affect the central nervous system, and to stimulate peripheral neuro-muscular mechanism under control of the sympathetic nervous system simulating the effects produced by ephedrine, to the registration of a mark consisting of the notation "DESAMINE" for a preparation for the treatment of obesity, in capsule and tablet form.

It was held that the decision of the Examiner of Interferences is sustained solely on the ground that the opposer has failed to establish any similarity in the goods.

It was held that labels accompanying opposer's application and those filed with the notice of opposition are not properly in evidence, since the labels accompanying opposer's application for registration are not in evidence at all, and the labels filed with the notice of opposition cannot be used by the opposer as evidence of facts prior to applicant's filing date.

It was held that an ex parte rejection would not be considered, since it is not felt that all of the facts have been developed, but the Examiner of Trade-Marks should re-examine the application when it again comes before him, in the light of any facts brought out herein and any additional facts which he may discover.

ANDERSON-PRICHARD OIL CORPORATION *v.* PERINOL PRODUCTS CO., INC., 173 Ms. D. 14, 87 USPQ 218, October 30, 1950, Interference No. 4021.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences awarding priority of the mark "Micro-Seal" to Anderson-Prichard Oil Corporation, the junior party. The applications were filed under the act of 1905, and the junior party applies the mark to asphaltic material used for waterproofing, sealing, dampproofing and priming, in repairing cracked concrete roofs, silos, floors and similar structures, while the senior party applies the mark to a mineral adhesive waterproofing surfacing material sold in powdered form for use only on masonry materials.

It was held that no action by either party having been taken to amend to recite concurrent use, the question of concurrent use was not properly before the Assistant Commissioner.

It was held that the question of territorial rights is not properly before the Assistant Commissioner, although it was noted that the record establishes sales by both parties in Iowa, and in States which are adjoining.

It was held that although the products are not identical and their uses are not coextensive, nevertheless, the fact that there is substantial overlap-

ping of the field of use is certainly likely to cause confusion among purchasers as to the origin of the goods.

EX PARTE PHILADELPHIA TEXTILE FINISHERS, INC., 173 Ms. D. —, 87 USPQ 220, October 31, 1950.

Assistant Commissioner Murphy affirmed the decision of the Trade-Mark Examiner refusing an application for registration upon the Principal Register under the act of 1946 of a mark consisting of a representation of four marching guardsmen encircled by a heavy oval band bearing the words "FLAME FOIL GUARDSMEN" for use on fire-resistant cotton fabrics, in view of registration No. 320,470 showing a pictorial representation of a man in medieval garb holding a down-turned sword in his right hand and an upraised flag in his left, followed by the words "GUARD," for use upon shade cloth made of pyroxylin coated fabrics; and Registration No. 343,189, of "GUARDSMAN" for textile fabrics of various kinds.

It was held that the conclusion is inescapable that applicant's goods and those of the prior registrants are closely related.

It was held that, although neither of the prior registrations shows the exact mark used by applicant, nor do they together show all of the features of applicant's mark, nevertheless, applicant's mark so resembles the registered marks as to be likely when applied to applicant's goods to cause conflict, mistake, or to deceive purchasers.

EX PARTE SIGHTMASTER CORPORATION, 173 Ms. D. —, 87 USPQ 223, October 31, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing to register "Sightmirror" for mirrors having a semi-transparent reflecting surface primarily designed for use as screens with television receivers, on the ground that the notation is merely descriptive of the goods.

GILLETTE SAFETY RAZOR COMPANY v. E. J. WILKINS COMPANY, 173 Ms. D. —, 87 USPQ 219, October 31, 1950, Opposition No. 28,168.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the notice of opposition to an application for registration on the Principal Register of a trade-mark, consisting of the notation "VALET KIT" in which the word "KIT" has been disclaimed apart from the mark shown, for a comb and fingernail file sold together in a leather case. Opposer relied upon its ownership of four registrations of the word "VALET" for various toilet articles, one, No. 88,449, including files, and "TRAVKIT" and "WALLKIT" for toilet kits and razor kits, respectively.

It was held that, so far as the files themselves are concerned, applicant's files and those covered by Registration No. 88,449 are goods of the same general character.

After noting that it does not clearly appear that opposer's articles placed in the kits bearing the marks "TRAVKIT" and/or "WALLKIT" bear the "VALET" mark, so that the marks "TRAVKIT" and "WALLKIT" are not considered particularly pertinent, it was held that the use of the words "VALET KIT" on a container for a nail file and comb would be apt to suggest a connection in trade between applicant and opposer.

Since the conclusion in this case was reached independently of registrations introduced by applicant in an attempt to narrow the scope of coverage of the mark "VALET," and to the inclusion of which material opposer has objected, it was held that it is not necessary to make any ruling with respect to them.

POLK MILLER PRODUCTS CORPORATION v. HARRY H. MYERS (MALVINA D. MYERS, ASSIGNEE, SUBSTITUTED), 173 Ms. D. —, 87 USPQ 224, October 31, 1950, Cancellation No. 5316.

Examiner-in-Chief Klinge reversed the decision of the Examiner of Interferences who had dismissed a petition for cancellation against Registration No. 273,954, for a composite trade-mark "SURE-SHOT," in association with a pictorial design, for a topical liquid preparation for the treatment of dandruff, based upon ownership of "SURE SHOT," Registration No. 226,819, for a medical preparation for internal administration in the treatment of dogs.

It was held that the goods of the respective parties do possess sufficiently close descriptive properties as to lead to likelihood of confusion as to origin, so that the mark of appellee should be canceled, it being conceded that appellant began using its mark prior to the commencement of use of appellee's mark.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 28, 1950

[VOL. 640. No. 4]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 517,841. RICHARD A. FISCH, doing business as "Anchor Plastics Company, Inc.," New York, N. Y., assignor to Anchor Plastics Co., Inc., New York, N. Y. Filed Feb. 20, 1947.

Aeroflex

FOR NARROW BELTING, STRIPPING, TAPE, AND TUBING MADE OF THERMOPLASTIC MATERIAL.

Claims use since Nov. 23, 1945.

Ser. No. 525,703. SWEETS LABORATORIES, INC., New York, N. Y. Filed July 2, 1947.

"BUBLERO"

FOR CHEWING GUM BASE COMPOSED OF RESINOUS, RUBBERY, AND OILY CONSTITUENTS AND USED IN COMBINATION WITH SUGAR, FLAVORING, AND OTHER INGREDIENTS TO MAKE CHEWING GUM.

Claims use since Nov. 14, 1933.

Ser. No. 525,704. SWEETS LABORATORIES, INC., New York, N. Y. Filed July 2, 1947.

"CHICLERO"

FOR CHEWING GUM BASE COMPOSED OF RESINOUS, RUBBERY AND OILY CONSTITUENTS AND USED IN COMBINATION WITH SUGAR, FLAVORING, AND OTHER INGREDIENTS TO MAKE CHEWING GUM.

Claims use since Feb. 27, 1930.

Ser. No. 525,705. SWEETS LABORATORIES, INC., New York, N. Y. Filed July 2, 1947.

"CHICSYN"

FOR CHEWING GUM BASE COMPOSED OF RESINOUS, RUBBERY, AND OILY CONSTITUENTS AND USED IN COMBINATION WITH SUGAR, FLAVORING, AND OTHER INGREDIENTS TO MAKE CHEWING GUM.

Claims use since July 25, 1932.

CLASS 2

RECEPTACLES

Ser. No. 512,617. SANIRAK INC., Tulsa, Okla. Filed Nov. 14, 1946.

SANIRAK

FOR RACK FOR BUTCHERS' KNIVES AND TOOLS.

Claims use since Mar. 11, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 509,088. GENERAL CERAMICS AND STEATITE CORPORATION, Keasbey, N. J. Filed Sept. 14, 1946.

The words "Ceramics Company New York" are disclaimed.

GENERAL CERAMICS COMPANY NEW YORK

FOR EXHAUST FANS, HEAT EXCHANGERS, PIPING FOR GASEOUS MIXTURES, TANKS AND KETTLES FOR HEATING AND/OR MELTING CHEMICAL REAGENTS, TOWERS FOR ABSORBING OR SCRUBBING GASEOUS MIXTURES.

Claims use since 1934.

CLASS 39

CLOTHING

Ser. No. 515,877. M. A. HENRY CO., INC., New York, N. Y. Filed Jan. 17, 1947.

Lone Rider

FOR COWBOY SUITS, COWGIRL SUITS, AND INDIAN SUITS FOR BOYS AND GIRLS.

Claims use since Nov. 4, 1946.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

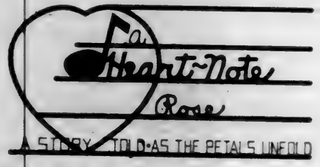
CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 507,775. KEYSTON BROS., San Francisco, Calif. Original filed, act of 1905, Aug. 12, 1946; amended to application under act of 1946, Principal Register, Dec. 19, 1947. (Sec. 2f as to "Keyston Bros.")

The words "Estd.," "1868" and "San Francisco" are disclaimed.
FOR HORSE HIDE, CALF SKIN, KID SKIN, COWHIDE, SHEEPSKIN, GOATSKIN, STEERHIDE LEATHER.
Claims use since 1868 as to "Keyston Bros."; and since Mar. 25, 1946, as shown.

Ser. No. 535,047. ROBERT H. KARSTENS, Pasadena, Calif. Filed Sept. 19, 1947.



The words "Rose" and "A Story Told As The Petals Unfold" are disclaimed.
FOR CUT AND POTTED NATURAL ROSES.
Claims use since July 19, 1947.

Ser. No. 547,275. PENOBSCOT CHEMICAL FIBRE COMPANY, Old Town, Maine. Filed Jan. 16, 1948. (Sec. 2f.)

PENOBSCOT

FOR SODA WOOD PULP AND BLEACHED SULPHITE WOOD PULP.
Claims use since Jan. 1, 1893.

Ser. No. 559,241. O'SULLIVAN RUBBER CORPORATION, Winchester, Va. Filed June 15, 1948.

SULVYNE

FOR VINYL PLASTIC MATERIAL IN SHEET FORM FOR USE IN THE MANUFACTURE OR FABRICATION OF HAND BAGS.
Claims use since Mar. 25, 1948.

Ser. No. 570,291. EASTERN GAS AND FUEL ASSOCIATES, Boston, Mass. Filed Dec. 10, 1948.

The words "Eastern Gas and Fuel Associates" and the representation of the goods are disclaimed. Applicant claims ownership of Registrations Nos. 503,479, 503,480, 505,249, and 505,433.
FOR COAL.
Claims use since Oct. 18, 1948.

Ser. No. 570,465. AMERICAN HARD RUBBER COMPANY, New York, N. Y. Filed Dec. 14, 1948.

ACE-TEX

Applicant claims ownership of Registration No. 131,017.
FOR VULCANIZED OR UNVULCANIZED COMPOUND IN THE FORM OF RAW, AND/OR PARTLY PREPARED MATERIAL FORMED IN SHEETS, RODS, TUBES, MOLDED FORMS, OR IN BULK FOR USE IN MAKING BATTERY CONTAINERS AND OTHER ARTICLES.
Claims use since July 30, 1948.

Ser. No. 588,411. WIEBOLDT STORES, INC., Chicago, Ill. Filed Nov. 26, 1949.

BURNHAM PARK

FOR LAWN SEED.
Claims use since Mar. 12, 1935.

Ser. No. 592,349. FRANCIS C. STOKES COMPANY, Vincentown, N. J. Filed Feb. 11, 1950.

STOKESCROSS

FOR VEGETABLE SEEDS.
Claims use since Dec. 2, 1949.

Ser. No. 597,162. POLAROID CORPORATION, Cambridge, Mass. Filed May 9, 1950.

POLAROID

Applicant claims ownership of Registrations Nos. 337,404, 388,047, 388,251, 388,721, 388,722, 391,449, 394,030, 398,917, 399,122, 399,329, 404,054, 422,100, 423,776, and 426,802.
FOR LIGHT-POLARIZING ORGANIC PLASTIC IN SHEET FORM FOR FURTHER MANUFACTURE.
Claims use since Nov. 19, 1935.

Ser. No. 597,163. POLAROID CORPORATION, Cambridge, Mass. Filed May 9, 1950.

Applicant claims ownership of Registrations Nos. 343,337, 398,918, 399,123, 399,124, 399,232, 404,720, 404,869, 405,117, 420,074, 423,546, 423,954, 424,173.
FOR LIGHT-POLARIZING ORGANIC PLASTIC IN SHEET FORM FOR FURTHER MANUFACTURE.
Claims use since Oct. 3, 1936.

CLASS 2

RECEPTACLES

Ser. No. 558,141. KEYES FIBRE COMPANY, Waterville, Maine. Filed May 29, 1948.

KYS CUSHION PAK

The words "Cushion" and "Pak" are disclaimed. Applicant claims ownership of Registrations Nos. 300,661, 344,854, 344,855, 383,958, 383,977, 395,768, 408,909, and 408,864.
FOR MOLDED PULP PACKING TRAYS TO BE USED IN THE PACKING, STORAGE AND SHIPMENT OF PERISHABLE OR FRAGILE ARTICLES.
Claims use since May 1, 1948.

Ser. No. 560,652. NORTHERN INDUSTRIAL CHEMICAL COMPANY, South Boston and Boston, Mass. Filed July 2, 1948.

The word "Ware" is disclaimed.
FOR TABLEWARE—NAMELY, PLATES, PLATTERS, SAUCERS, CUPS, AND BOWLS, OF MOLDED SYNTHETIC PLASTIC MATERIAL.
Claims use since Oct. 15, 1947.

Ser. No. 564,343. PARIS DECORATORS CORP., New York, N. Y. Filed Aug. 28, 1948. (Sec. 2f.)

FOR CANDY BOXES, JEWEL BOXES, POWDER JARS, FLOWER AND LAMP URNS.
Claims use since Nov. 13, 1926.

Ser. No. 564,636. THE MENGEL COMPANY, Louisville, Ky. Filed Sept. 3, 1948.

365

FOR WOOD CONTAINERS FOR BEVERAGE BOTTLES.
Claims use since July 31, 1948.

Ser. No. 564,794. WHITEHEAD & KALES COMPANY, Detroit, Mich. Filed Sept. 7, 1948.

W&K

FOR OPEN TOP SHEET METAL BOXES USED FOR STORAGE AND TRANSPORTATION OF SMALL AUTOMOTIVE PARTS AND ALL-METAL CRATES OF DIFFERENT SHAPE FOR TRANSPORTING DOORS, ROOFS, TRUNK LIDS, AND OTHER LARGE AUTOMOTIVE PARTS.
Claims use since Sept. 24, 1947.

Ser. No. 564,994. FABERGÉ, INC., New York, N. Y. Filed Sept. 11, 1948.

Fabergette

Applicant claims ownership of Registration No. 402,130.
FOR CYLINDRICAL, PURSE-TYPE PERFUME DISPENSING VIAL WITH DETACHABLE CAP.
Claims use since Feb. 5, 1947.

Ser. No. 567,415. A. E. MACADAM & CO., INC., Brooklyn, N. Y. Filed Oct. 21, 1948.

No claim is made to the exclusive right to the use of the word "Pack"
FOR PAPER PLATES AND DISHES; PAPER BAGS, PAPER CARTONS, AND CELLOPHANE BAGS FOR USE IN PACKAGING FROZEN FOODS.
Claims use since May 25, 1948.

Ser. No. 569,299. EDWARD R. REINEKE, doing business as E. R. Reineke & Co., Petersburg, Ind. Filed Nov. 23, 1948.

Melody

FOR FABRIC COASTERS OF THE JACKET TYPE FOR: HIGH-BALL GLASSES, TUMBLERS, BOTTLES, DECANTERS, CUPS, MUGS, AND OTHER BEVERAGE GLASSWARE AND CHINA.
Claims use since Oct. 29, 1948.

Ser. No. 572,598. STANDARD PRESSED STEEL CO., Jenkintown, Pa. Filed Jan. 22, 1949. (Sec. 2f.)

HALLOWELL

FOR STACKING BOXES.
Claims use since 1938.

Ser. No. 576,820. THE OHIO BOXBOARD COMPANY, Rittman, Ohio. Filed Apr. 8, 1949.

PALLETAINER

FOR CARTONS, PACKING CASES, AND BOXES MADE OF PAPERBOARD.
Claims use since Jan. 27, 1949.

Ser. No. 576,952. BEACON PRODUCTS CORPORATION, Newton Highlands, Mass. Filed Apr. 12, 1949.

Jewel-brite

The word "Brite" is disclaimed.
FOR DISHES AND TUMBLERS OF PLASTIC MATERIALS FOR USE FOR EATING UTENSILS AND SERVING FOOD.
Claims use since Mar. 1, 1949.

Ser. No. 577,613. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 23, 1949.

HONEYSUCKLE

FOR PLASTIC FEEDING DISH AND DRINKING TUMBLER SET FOR BABIES.
Claims use since Feb. 6, 1948.

Ser. No. 580,299. KEYES FIBRE COMPANY, Waterville and Portland, Maine. Filed June 11, 1949.

KYS-PAK

The word "Pak" is disclaimed. Applicant claims ownership of Registrations Nos. 300,661, 344,854, 344,855, 383,958, 383,977, 408,909, and 408,864.
FOR MOLDED PULP PACKING TRAYS FOR USE IN THE PACKING, STORAGE AND SHIPMENT OF PERISHABLE OR FRAGILE ARTICLES.
Claims use since Apr. 29, 1948.

Ser. No. 581,855. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed July 13, 1949.

FASTELS

FOR TEXTILE BAGS.
Claims use since June 22, 1949.

Ser. No. 584,910. KEYES FIBRE COMPANY, Portland and Waterville, Maine. Filed Sept. 16, 1949.

KYS KARTONS

The word "Kartons" is disclaimed. Applicant claims ownership of Registrations Nos. 345,561, 344,854, 344,855, 383,958, 383,977, 395,768, 408,864 and 408,909.
FOR MOLDED PULP CARTONS FOR USE IN THE PACKING, STORAGE, SHIPMENT, HOLDING, CONTAINING AND TRANSPORTATION OF EGGS AND OTHER PERISHABLE OR FRAGILE ARTICLES.
Claims use since Sept. 9, 1949.

Ser. No. 590,454. THE RAYMOND BAG COMPANY, Middletown, Ohio. Filed Jan. 6, 1950.

RAY-GLOSS

The word "Gloss" is disclaimed.
FOR PAPER BAGS.
Claims use since Aug. 12, 1949.

Ser. No. 591,235. HAMMOND IRON WORKS, Warren, Pa. Filed Jan. 21, 1950.

DIALIFT

FOR STORAGE TANKS.
Claims use since October 1949.

Ser. No. 592,412. BAYLIS SANITARY SUPPLY CO., doing business as Baylis Sanitary Supply Co. and as Associated Bag and Apron Company, Chicago, Ill. Filed Feb. 14, 1950.

DAMPOO

FOR LAUNDRY DAMPENING BAGS.
Claims use since Feb. 3, 1950.

Ser. No. 592,670. SHELLMAR PRODUCTS CORPORATION, Chicago, Ill. Filed Feb. 17, 1950.

TIDY TAINER

The word "Tidy" is disclaimed.
FOR UTILITY BAGS.
Claims use since Dec. 20, 1949.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 580,899. PENNSYLVANIA LEATHER PRODUCTS COMPANY, Troy, Pa. Filed June 22, 1949.

PENN ROYAL

No claim is made to "Penn."
FOR LEATHER WALLETS, POCKET FOLDERS FOR CURRENCY AND THE LIKE.
Claims use since June 1948.

Ser. No. 591,998. NATHAN PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 4, 1950.

HYGEIA

FOR PHYSICIANS', SURGEONS', AND NURSES' PROFESSIONAL CASES OR BAGS.
Claims use since June 4, 1948.

Ser. No. 593,825. PLATT LUGGAGE, INC., Chicago, Ill. Filed Mar. 11, 1950.

Side-Kick

FOR LADIES' ACCESSORY ZIPPER TRAVELING BAGS.
Claims use since Feb. 10, 1950.

Ser. No. 598,708. CONSOLIDATED LEATHER MFG. CO., INC., New York, N. Y. Filed June 7, 1950.

MONOMADE

FOR BILLFOLDS.
Claims use since May 15, 1946.

Ser. No. 598,905. FEDERATED DEPARTMENT STORES, INC., Cincinnati, Ohio. Filed June 10, 1950. (Sec. 2f.)

Lexington

Applicant claims ownership of Registration No. 313,983.
FOR TRUNKS.
Claims use since May 3, 1933.

Ser. No. 599,333. MARIONESS & CO., INC., New York, N. Y. Filed June 17, 1950.

FLAP-JACK

FOR WALLETS.
Claims use since Apr. 21, 1950.

Ser. No. 599,974. PYRAMID LEATHER GOODS CO., INC., New York, N. Y. Filed June 29, 1950.

LITTLE LADY

FOR CHILDREN'S AND GIRLS' HANDBAGS, OF LEATHER, FABRIC, IMITATION LEATHER, PLASTIC MATERIAL, AND COMBINATIONS THEREOF.
Claims use since Apr. 3, 1950.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 562,911. CYCLOPS PRODUCTS MFG. CO., also doing business as Cyclops Manufacturing Co., Detroit, Mich. Filed Aug. 6, 1948.

Cyclops

FOR WAX CLEANER AND POLISH FOR VARNISH, ENAMEL, AND LACQUER SURFACES.
Claims use since June 3, 1939.

Ser. No. 585,778. THE AMERICAN FLOOR SURFACING MACHINE COMPANY, Toledo, Ohio. Filed Oct. 5, 1949. (Sec. 2f.)

AMERICAN

Applicant claims ownership of Registration No. 274,597.
FOR SANDPAPER, ABRASIVE PAPER, ABRASIVE CLOTH, AND ABRASIVE STONES AND WHEELS.
Claims use since August 1922.

Ser. No. 588,254. WOODLETS INCORPORATED, Portland, Pa. Filed Nov. 23, 1949.

OZICOTE

FOR COATING AND CLEANING SPRAY MATERIAL FOR GLASS SURFACES—NAMELY, MIRRORS, REFLECTORS, AND ALL TYPES OF OPTICAL LENSES SUCH AS EYE GLASSES, CAMERAS, AND MICROSCOPES.
Claims use since Nov. 17, 1949.

CLASS 5

ADHESIVES

Ser. No. 585,882. MEIER DISTRIBUTING CORPORATION, Atlanta, Ga. Filed Aug. 1, 1949.

EXTENDO

FOR ADHESIVE COMPOUNDS IN POWDERED FORM USED IN THE MANUFACTURE OF PLYWOOD.
Claims use since June 6, 1949.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 531,661. GARRATT-CALLAHAN CO. OF ILLINOIS, Chicago, Ill. Filed Aug. 18, 1947. (Classified in Class 52.) CONCURRENT USE with Reg. No. 201,615 for the area comprising that part of Texas east of a line drawn north and south through the city of Abilene, Tex., and all of the States of Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, New Jersey, New Hampshire, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin, and the Virgin Islands, Puerto Rico, and the Canal Zone.

Fluff-Foe

FOR RUST ERADICATOR PREPARATION USED FOR HOT-WATER-CIRCULATING SYSTEMS OR ANY METAL UNITS IN WHICH WATER IS CONFINED, AND INCLUDING AUTOMOBILE RADIATORS AND DEVICES OF LIKE CHARACTER FOR PREVENTING FORMATION OF FLUFF, SCALE, OR RUST AND THE REMOVAL THEREOF.

Claims use since Jan. 1, 1910.

Ser. No. 541,360. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Nov. 15, 1947. (Classified in Class 18.)

FOR DISINFECTANT, DEODORANT, ANTISEPTIC, LARVACIDE, FUMIGANT, AND HERBICIDE.

Claims use since 1920.

Ser. No. 547,191. TEXAS CARBONATE COMPANY, Florence, Tex. Filed Jan. 15, 1948.

CARBOTEX

FOR POWDERED AMORPHOUS LIMESTONE COMPRISING SUBSTANTIALLY PURE CALCIUM CARBONATE.

Claims use since Jan. 7, 1939.

Ser. No. 570,209. KATZ DRUG COMPANY, Kansas City, Mo. Filed Dec. 8, 1948. (Classified in Class 51.)

Katz

Applicant claims ownership of Registration No. 317,146.

FOR TINCTURE OF GREEN SOAP; BORIC ACID CRYSTALS AND POWDER, OXALIC ACID, SALICYLIC ACID, TANNIC ACID, TARTARIC ACID, POWDERED ALUM, LUMP ALUM, BLUE VITRIOL, CALOMEL POWDER, COMPOUND LICORICE POWDER, COPPERAS CRYSTAL, CREAM OF TARTAR, FLAKE WHITE, FLAXSEED MEAL, LEAD SUGAR, LEAVES HENNA POWDER, MOTH BALLS, POTASSIUM PERMANGANATE, NAPHTHALENE FLAKES, POWDERED ROSIN, EPSOM SALTS, SALT PETRE, ROCHELLE SALT, SODIUM FLUORIDE, SULPHUR, ZINC OXIDE POWDER, ZINC SULPHATE, CARBOLIC ACID, CRUDE CARBOLIC ACID, MURIATIC ACID, WOOD ALCOHOL, AMMONIA WATER, BED BUG POISON, ESSENCE PEPPERMINT, FORMALDEHYDE, GLYCERINE, CASTOR OIL, CAMPHORATED OIL, OIL CITRONELLA, OIL EUCALYPTUS, OIL WINTERGREEN SYNTHETIC, ROSE WATER, BENZOIN COMPOUND, WATER GLASS, LACTIC ACID, COD LIVER OIL; BORIC ACID SOLUTION, AROMATIC SPIRITS AMMONIA, CASCARA AROMATIC, CHLOROFORM LINIMENT, LIME WATER, MEDICINAL MINERAL OIL, PAREGORIC, DOBELL'S SOLUTION, SPIRITS CAMPHOR, SWEET SPIRIT NITRE, TINCTURE IODINE, RUBBING ALCOHOL, MILK OF MAGNESIA, ASPIRIN; BAY RUM, EXTRACT WITCH HAZEL, GLYCERINE AND BAY RUM, GLYCERINE AND ROSE WATER, GLYCERINE WITH BAY RUM AND ROSE WATER.

Claims use since Sept. 5, 1928.

Ser. No. 573,221. CARL F. MILLER & CO., INC., Seattle, Wash. Filed Jan. 27, 1949.

The word "Seattle" is disclaimed. Consent to the use and registration of the name "Carl F. Miller" is given.

FOR ORGANIC SOLVENTS, ALCOHOLS, ORGANIC AND INORGANIC ACIDS, BASES AND SALTS, SULPHUR AND SULPHUR DIOXIDE, PYRETHRUM EXTRACT, FORMALDEHYDE, PETROLATUM, NAPHTHALENE, HYDROGEN PEROXIDE, AND DIPENTENE.

Claims use since May 1927.

Ser. No. 575,667. POROSAN PLASTICS LIMITED, London, England. Filed Mar. 18, 1949.

POLYESTOL

Applicant claims ownership of English Registration No. 643,446, dated Jan. 4, 1946.

FOR PERFUMED SYNTHETIC RESINS (NOT BEING ADHESIVES) FOR USE IN MAKING ARTIFICIAL FLOWERS AND PETALS.

Ser. No. 577,336. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 18, 1949.

STERLON

FOR CHEMICAL TOXICANTS FOR USE AS FUNGICIDES, BACTERICIDES, GERMICIDES AND DISINFECTANTS FOR GENERAL USE IN THE AGRICULTURAL AND INDUSTRIAL ARTS.

Claims use since Mar. 9, 1949.

Ser. No. 583,501. UNITED L. P. GAS COMPANY, Grand Island, Nebr. Filed Aug. 15, 1949.

UNIPANE

FOR LIQUEFIED PETROLEUM GAS SOLD IN TANKS.

Claims use since Apr. 19, 1949.

Ser. No. 587,523. ARKANSAS COMPANY, INC., Newark, N. J. Filed Nov. 9, 1949

PARAMEL

Applicant claims ownership of Registration No. 366,233.

FOR ESTERIFIED AMINO COMPOUNDS FORMING A SUBSTANTIVE ANIONIC FINISH USEFUL AS A SOFTENER FOR TEXTILE MATERIALS.

Claims use since Apr. 1, 1949.

Ser. No. 589,566. THE CRAMER CHEMICAL CO., Gardner, Kans. Filed Dec. 19, 1949. (Sec. 2f.)

FIRM-GRIP

Applicant claims ownership of Registration No. 433,538.

FOR ANTI-SLIPPING PREPARATION FOR USE ON HANDS TO PREVENT FUMBLING OR SLIPPING IN HANDLING SPORTS DEVICES.

Claims use since January 1935.

Ser. No. 589,727. KILGORE CHEMICALS, INC., Washington, D. C. Filed Dec. 21, 1949.

METAZENE

FOR SYNTHETIC ORGANIC CHEMICAL COMPOUND WITH AN INERT ORGANIC SOLVENT FOR INDUSTRY AND MANUFACTURING USE AS A DEODORANT IN CONFINED SPACES.

Claims use since December 1947.

Ser. No. 590,290. THOMAS W. SWOBE, doing business as Thomas W. Swobe Co., San Francisco, Calif., assignor to Kemcal Incorporated, San Francisco, Calif., a corporation of California. Filed Jan. 3, 1950.

AIR-E-FILL

The word "Air" is disclaimed.

FOR LIQUID DEODORANT FOR HOUSEHOLD AND INDUSTRIAL USE.

Claims use since Dec. 23, 1949.

Ser. No. 591,933. KING LABORATORIES, INC., Syracuse, N. Y. Filed Feb. 3, 1950.

BAREX GETTERS

The word "Getters" is disclaimed. Applicant claims ownership of Registration No. 306,643.

FOR GETTERS USED IN THE EVACUATION OF VACUUM TUBES.

Claims use since December 1931.

Ser. No. 591,968. VITENE MFG. CO. INC., New York, N. Y. Filed Feb. 3, 1950.

DU-OL

FOR PREPARATION USED TO DISINTEGRATE RUST AND CORROSION OF ALL KINDS AND TO FREE AND LOOSEN ANY METAL PARTS THAT ARE FROZEN OR RUSTED TOGETHER.

Claims use since Nov. 16, 1949.

Ser. No. 592,169. W. R. SWEENEY, MFGR., Salisbury, Mo. Filed Feb. 8, 1950. (Sec. 2f.)

SWEENEY'S

Applicant claims ownership of Registrations Nos. 152,280 and 505,274.

FOR RAT, MOUSE, MOLE, AND GOPHER POISON.

Claims use since 1904.

Ser. No. 592,191. GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 9, 1950.

DI-OA

FOR CARBON BLACK AS A PLASTICIZER.

Claims use since May 2, 1949.

Ser. No. 592,315. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 11, 1950.

QUILON

FOR STEARATO CHROMIC CHLORIDE USED, AMONG OTHER THINGS, IN THE TREATMENT OF PAPER, TEXTILES MADE OF EITHER NATURAL OR

SYNTHETIC FIBERS OR BOTH, LEATHER, ASBESTOS, GLASS FABRICS, AND THE LIKE, TO IMPART WATER REPELLENCY, TO IMPROVE WAX ADHESION, AND TO ACT AS A SIZING AGENT.
Claims use since Dec. 9, 1949.

Ser. No. 592,771. MASTER BRONZE POWDER COMPANY, Hammond, Ind. Filed Feb. 20, 1950.

Derusto

FOR RUST PREVENTIVE PREPARATION.
Claims use since Feb. 7, 1950.

Ser. No. 592,976. BICK & CO., INC., Reading, Pa. Filed Feb. 24, 1950.

BIXOLAN

FOR CHEMICAL DYES.
Claims use since Jan. 10, 1948.

Ser. No. 595,026. THERMOID COMPANY, Trenton, N. J. Filed Feb. 9, 1950.

Thermoid

FOR HYDRAULIC BRAKE FLUID.
Claims use since Apr. 17, 1948.

CLASS 7
CORDAGE

Ser. No. 599,803. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed June 27, 1950.

RAPID

Applicant claims ownership of Registration No. 500,456.
FOR ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBRE.
Claims use since Feb. 23, 1950.

Ser. No. 600,031. CHICAGO PRINTED STRING COMPANY, Chicago, Ill. Filed June 30, 1950.

Chiprinette

Applicant claims ownership of Registrations Nos. 119,150 and 430,415.
FOR CRIMPED RIBBON-LIKE TAPE MADE OF SIZED NON-WOVEN YARNS AND USED FOR TYING UP AND ORNAMENTING PACKAGES, BOXES, AND CONTAINERS.
Claims use since Apr. 18, 1950.

CLASS 10
FERTILIZERS

Ser. No. 596,765. WILSON & TOOMER FERTILIZER CO., Jacksonville, Fla. Filed May 2, 1950.

Seminole

FOR PLANT FERTILIZING MATERIALS.
Claims use since November 1894.

CLASS 11
INKS AND INKING MATERIALS

Ser. No. 576,519. CHEMCO PHOTOPRODUCTS COMPANY, INC., Glen Cove, N. Y. Filed Apr. 2, 1949.

CHEMCO

Applicant claims ownership of Registrations Nos. 353,142 and 353,510.
FOR PHOTOMECHANICAL AND PHOTOENGRAVING SUPPLIES—NAMELY, ETCHING INKS, PROOFING INKS, STAGING INKS, TOPPING INKS, TRANSFER INKS, AND PRINTING INKS FOR USE IN THE PREPARATION, PROVING, AND PRINTING OF PHOTOENGRAVINGS.
Claims use since 1938.

Ser. No. 592,301. GODFREY L. CABOT, INC., Boston, Mass. Filed Feb. 11, 1950.

BLACK PEARLS

Applicant disclaims the word "Black."
FOR CARBON BLACK AS A PIGMENT IN INKS.
Claims use since Feb. 17, 1941.

Ser. No. 593,011. JOHN P. NISSEN, JR., COMPANY, Glenside, Pa. Filed Feb. 24, 1950. (Sec. 2f.)

Nissen

Applicant claims ownership of Registration No. 270,231.
FOR MARKING INKS, AND MARKING INK AND STYLUS CONTAINERS COMBINED.
Claims use since Apr. 1, 1925.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 551,261. EASTERN STATES FARMERS' EXCHANGE, West Springfield, Mass. Filed Mar. 5, 1948. (Sec. 2f.)

EASTERN STATES COOPERATIVE

The word "Cooperative" is disclaimed. Applicant claims ownership of Registrations Nos. 177,379, 184,503, 185,714, 187,373, 317,158, 320,294, 326,035, 326,037, 330,285, and 347,726.
FOR ROLL ROOFING, ASPHALT SHINGLES, ASPHALT AND FIBRE CEMENTS IN PLASTIC AND LIQUID FORM FOR ROOFING AND SIMILAR PURPOSES, OVERLAP ROOFING CEMENT, PUTTY AND ASPHALTUM COMPOUNDS FOR BOTH WATERPRROFING AND CORROSION RESISTING PURPOSES.
Claims use since May 1, 1940.

Ser. No. 561,950. RALPH G. SPIEGLE, doing business as Cortrim Lumber Company, Bristol, Tenn. Filed July 22, 1948. (Sec. 2f.)

Cortrim

FOR LUMBER OF ALL KINDS, DIMENSION CORE STOCK (ALSO KNOWN AS GLUED-UP DIMENSION), TRIM FOR WINDOWS, AND DOORS AND MOLDINGS.
Claims use since Sept. 1, 1916.

Ser. No. 566,042. MAHOGANY IMPORTING COMPANY, Los Angeles, Calif. Filed Sept. 28, 1948. (Sec. 2f.)

BATAAN

FOR DARK RED PHILIPPINE MAHOGANY.
Claims use since Oct. 15, 1912.

Ser. No. 569,162. THE LEXINGTON SUPPLY COMPANY, Cleveland, Ohio. Filed Nov. 20, 1948.

GLASFAB

FOR GLASS FIBER WATERPROOFING FABRIC USED FOR CONSTRUCTION PURPOSES.
Claims use since July 8, 1947.

Ser. No. 576,423. RODDIS PLYWOOD CORPORATION, Marshfield, Wis. Filed Mar. 31, 1949.

The drawing is lined for blue. The mark consists of a blue disc or circle appearing on the edge of the door. Applicant claims ownership of Registration No. 519,570.
FOR WOODEN DOORS.
Claims use since May 1, 1948.

Ser. No. 579,481. THE R. G. COFFMAN CO. INC., Orlando, Fla. Filed May 25, 1949.

FOR RAILINGS, PORCH POSTS, BRACKETS, VALANCES, GATES, AND SCREEN DOOR GRILLES, ALL MADE OF ORNAMENTAL IRON.
Claims use since Sept. 15, 1925.

Ser. No. 587,010. BUFFALO PRODUCTS, INC., Buffalo, N. Y. Filed Oct. 29, 1949.

KIE

FOR RUBBER FORMS FOR FORMING HOLES IN CONCRETE CEILINGS, WALLS, AND FLOORS.
Claims use since Feb. 7, 1949.

CLASS 13
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 532,329. NATIONAL SILVER COMPANY, New York, N. Y. Filed Aug. 25, 1947.

PERMA-BRITE

The word "Brite" is disclaimed. Applicant claims ownership of Registration No. 355,059.
FOR CERTAIN ARTICLES OF HOLLOWWARE HAVING A BASE OF COPPER, BRASS, OR STEEL AND A CHROMIUM PLATING THEREON—NAMELY, WATER PITCHERS, COCKTAIL SHAKERS, COCKTAIL CUPS, SUGAR BOWLS, CREAM PITCHERS, TRAYS, CASSEROLE SERVERS, CANDY DISHES, COFFEE POTS, VEGETABLE DISHES, GRAVY BOATS, COMPOTE DISHES, AND TEA SETS.
Claims use since Aug. 14, 1947.

Ser. No. 544,139. THE AUTOYRE COMPANY, INCORPORATED, Oakville, Conn. Filed Dec. 12, 1947. (Sec. 2f as to "Twin.")

"TWIN RACK"

The word "Rack" is disclaimed. Applicant claims ownership of Registration No. 412,324.
FOR TOWEL BARS AND TOWEL RACKS.
Claims use since July 12, 1939.

Ser. No. 549,217. ARMSTRONG CORK COMPANY, Lancaster, Pa. Filed Feb. 10, 1948. (Sec. 2f.)

Armstrong's

FOR FURNITURE RESTS AND CUPS; AND CLIPS FOR USE IN THE ERECTION OF INSULATION AND DECORATIVE FIBERBOARD AND THE LIKE.
Claims use on clips for use in the erection of insulation and decorative fiberboard and the like since about the year 1938; and on furniture rests and cups since about 1940.

Ser. No. 549,917. FAULTLESS CASTER CORPORATION, Evansville, Ind. Filed Feb. 17, 1948.

The phrase "Move The Faultless Way" and the representation of the caster are disclaimed.
FOR CASTERS FOR FURNITURE AND THE LIKE.
Claims use since Jan. 1, 1900.

Ser. No. 560,306. CLARE R. WOODBURY, doing business as Orion Specialties, Newark, N. J. Filed June 26, 1948.

ORION
★★★

FOR RACKS TO BE AFFIXED TO WALLS AND OTHER SUPPORTS FOR SUPPORTING BELTS, TIES, OTHER WEARING APPAREL, AND HOUSEHOLD ARTICLES.
Claims use since May 18, 1948.

Ser. No. 570,091. H. D. BOGGS COMPANY, Omaha, Nebr., assignor to H. D. Boggs Company, Ltd., Omaha, Nebr., a limited partnership. Filed Dec. 7, 1948.

Lami-Rock

FOR LAMINATED PIPE COMPRISING A FIBROUS FILLING MATERIAL UNITED BY SYNTHETIC RESIN BINDERS.
Claims use since July 10, 1948.

Ser. No. 579,561. SELF-AID PRODUCTS CORPORATION, Saybrook, Conn. Filed May 26, 1949.

SAVE-A-WIFE

FOR CLOTHESLINE BRACKETS.
Claims use since Mar. 16, 1949.

Ser. No. 590,269. THE E. H. HOTCHKISS COMPANY, Norwalk, Conn. Filed Jan. 3, 1950. (Sec. 2f.)
Applicant claims ownership of Registration No. 519,410.

Hotchkiss

FOR STAPLES.
Claims use since 1897.

Ser. No. 590,557. HAL WEIR MCPHERSON, Chicago, Ill. Filed Jan. 9, 1950.

HEALTH GUARD

FOR VALVE USED IN PIPES FOR PROTECTION AGAINST INTERMINGLING OF WATERS, FLUIDS, OR OTHER LIQUIDS OF VARYING QUALITIES.
Claims use since June 13, 1949.

Ser. No. 590,713. STANDARD-THOMSON CORPORATION, Dayton, Ohio. Filed Jan. 11, 1950.

"Tech-Forge"

FOR FLEXIBLE COUPLINGS FOR CONDUITS.
Claims use since Oct. 19, 1949.

Ser. No. 593,340. FORMAN INSULATING SCREW CORP., New York, N. Y. Filed Mar. 3, 1950.

FISCO

FOR INSULATING SCREWS AND RIVETS.
Claims use since Jan. 10, 1950.

Ser. No. 593,480. JOHN FOWLER, doing business as The Big Star Mfg. Co., Kansas City, Kans. Filed Mar. 6, 1950.

THE BIG ★

FOR APPARATUS IN THE NATURE OF A SHALLOW RECEPTACLE HAVING A GRID THEREON FOR SCRAPING SHOES.
Claims use since Jan. 15, 1950.

Ser. No. 594,825. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio. Filed Mar. 29, 1950.

AMERING

FOR NAILS.
Claims use since Mar. 7, 1950.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 597,289. PACIFIC CAR AND FOUNDRY COMPANY, Renton, Wash. Filed May 11, 1950.

Fibraloy

FOR FERROUS METAL CASTINGS.
Claims use since July 12, 1948.

CLASS 15

OILS AND GREASES

Ser. No. 556,961. THE HODSON CORPORATION, Chicago, Ill. Filed May 13, 1948. (Sec. 2f.)

METALICOIL

FOR LUBRICATING OIL.
Claims use since May 6, 1930.

Ser. No. 556,962. THE HODSON CORPORATION, Chicago, Ill. Filed May 13, 1948. (Sec. 2f.)

METALICGREASE

FOR LUBRICATING GREASE.
Claims use since Aug. 23, 1939.

Ser. No. 573,392. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa. Filed Feb. 5, 1949.

BORNISIL

FOR LUBRICANTS FOR LUBRICATING BEARING SURFACES EXPOSED TO ELEVATED TEMPERATURES.
Claims use since Dec. 31, 1948.

Ser. No. 578,186. ANSUL CHEMICAL COMPANY, Marinette, Wis. Filed May 4, 1949.

ANSUL

FOR LUBRICATING OIL FOR USE IN AIR CONDITIONING AND REFRIGERATION SYSTEMS.
Claims use since Feb. 18, 1949.

Ser. No. 594,406. G. W. SMITH & SONS, INC., Dayton, Ohio. Filed Mar. 22, 1950. (Sec. 2f.)

DIE SLICK

FOR LUBRICATING COMPOSITIONS FOR CASTING DIES.
Claims use since Dec. 2, 1940.

Ser. No. 594,500. SIGNAL OIL COMPANY, Los Angeles, Calif. Filed Mar. 23, 1950.

Signal

Applicant claims ownership of Registrations Nos. 287,715, 294,435, and 298,826.
FOR LUBRICATING OILS.
Claims use since March 1931, as to "Signal"; and since Mar. 1, 1946, as shown.

Ser. No. 594,783. IMPERIAL CHEMICAL INDUSTRIES LIMITED, London and Millbank, London, England. Filed Mar. 28, 1950.

ICI

Applicant claims ownership of British Registration No. 507,747, dated Nov. 12, 1929.
FOR ILLUMINATING, HEATING, AND LUBRICATING OILS.

Ser. No. 594,987. PATE OIL COMPANY, Milwaukee, Wis. Filed Mar. 31, 1950.

MULTIGLIDE

FOR MULTI-PURPOSE LUBRICATING GREASES.
Claims use since Feb. 23, 1950.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 541,385. ARMSTRONG PAINT & VARNISH WORKS, Chicago, Ill. Filed Nov. 17, 1947.

PLASTINAMEL

FOR QUICK DRYING PAINT ENAMELS.
Claims use since Sept. 15, 1943.

Ser. No. 541,456. REPUBLIC PAINT & VARNISH CO., Chicago, Ill. Filed Nov. 17, 1947.

"TRUMP"

FOR READY-MIXED PAINTS FOR INTERIOR AND EXTERIOR USE, READY-MIXED HOUSEHOLD PAINTS SOLD IN LIQUID FORM, PAINT ENAMELS, VARNISHES, VARNISH STAINS, LIQUID PAINT AND VARNISH REMOVERS, AND QUICK DRYING HOUSEHOLD BRUSHING LACQUERS.
Claims use since 1930.

Ser. No. 541,458. REPUBLIC PAINT & VARNISH CO., Chicago, Ill. Filed Nov. 17, 1947.

REP-SEAL

The word "Seal" is disclaimed.
FOR TRANSPARENT VARNISH OIL USED AS A PAINT SEALER AND REDUCER AND AS A VARNISH EXTENDER.
Claims use since July 5, 1927.

Ser. No. 555,049. BINNEY & SMITH COMPANY, New York, N. Y. Filed Apr. 20, 1948.

FLEXOLA

FOR PAINT COMPRISING AN EMULSION CONTAINING PIGMENTS SOLUBLE IN WATER USED TO PRODUCE TRANSPARENT AND OPAQUE EFFECTS FOR ARTISTS' AND STUDENTS' USE.
Claims use since Sept. 3, 1947.

Ser. No. 557,803. WESCO WATERPAINTS, INC., Berkeley, Calif. Filed May 25, 1948.

PLI-TEC

FOR INTERIOR STIPPLE PAINTS.
Claims use since Sept. 2, 1947.

Ser. No. 558,087. WATSON STANDARD COMPANY, Pittsburgh, Pa. Filed May 28, 1948.

HIDEX

FOR INTERIOR OIL PAINT.
Claims use since Aug. 22, 1947.

Ser. No. 563,121. INTERCHEMICAL CORPORATION, New York, N. Y. Filed Aug. 10, 1948.

MONOPEEN

FOR PAINT-TYPE ENAMEL.
Claims use since Nov. 3, 1947.

Ser. No. 566,630. JOHN T. MEHIGAN, doing business as Twi-Light Paint Co., Minneapolis, Minn. Filed Oct. 7, 1948.

TWI-LITE

The term "Lite" is disclaimed.
FOR CLEAR SYNTHETIC RESINOUS PLASTIC SOLUTIONS, FOR PROTECTIVE AND DECORATIVE COATING PURPOSES.
Claims use since Aug. 25, 1948.

Ser. No. 572,145. ACME WHITE LEAD AND COLOR WORKS, Detroit, Mich. Filed Jan. 14, 1949.

Acme Lite

The word "Lite" is disclaimed. Applicant claims ownership of Registrations Nos. 55,842, 62,706, 63,481, 66,757, and 265,024.
FOR PAINT (PASTE AND READY-MIXED).
Claims use since Nov. 7, 1945.

Ser. No. 580,509. PIERCE & STEVENS, INCORPORATED, Buffalo, N. Y. Filed June 15, 1949.

The representation of the paint brush is disclaimed. Applicant claims ownership of Registration No. 435,898.
FOR LACQUER FLOOR COATING.
Claims use since Mar. 1, 1949.

Ser. No. 582,349. DEVOE & RAYNOLDS COMPANY, INC., New York, N. Y. Filed July 22, 1949.

The word "Spar" is disclaimed.
FOR VARNISH.
Claims use since June 18, 1947.

Ser. No. 583,147. ERNST W. DORN, doing business as Ernst W. Dorn Co., Los Angeles, Calif. Filed Aug. 8, 1949.

FOR SILK SCREEN PROCESS PAINT AND PAINT THINNER.
Claims use since June 1932.

Ser. No. 587,816. PRATT & LAMBERT—INC., Buffalo, N. Y. Filed Nov. 15, 1949.

SOLIDEX

FOR WALL PAINT.
Claims use since Aug. 24, 1944.

Ser. No. 588,648. MINIT SPRAY CORPORATION, Chicago, Ill. Filed Dec. 1, 1949.

Spraint

FOR ENAMEL.
Claims use since Oct. 19, 1949.

Ser. No. 592,654. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed Feb. 17, 1950.

RESIMENE

FOR SYNTHETIC RESINS IN SOLUTION, DISPERSION, SUSPENSION, AND EMULSION FORMS FOR COATING, IMPREGNATING, SIZING, OR WATERPROOFING WOOD AND WOODEN SURFACES AND FOR PROTECTIVE OR DECORATIVE COATINGS ON ALL KINDS OF SURFACES WHERE PAINTS, VARNISHES, OR LACQUERS ARE GENERALLY USED.
Claims use since Jan. 5, 1950.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 549,451. LANE, LIMITED, New York, N. Y. Filed Feb. 11, 1948.

LORDS

Applicant claims ownership of Registration No. 406,192.
FOR SMOKING TOBACCO.
Claims use since September 1947.

Ser. No. 595,299. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Apr. 6, 1950.

SPEAR HEAD

FOR PLUG CHEWING TOBACCO.
Claims use since 1884.

Ser. No. 595,486. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Apr. 10, 1950.

COTTON BOLL

FOR TWIST TOBACCO.
Claims use since 1887.

Ser. No. 595,813. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed Apr. 17, 1950.

EXCELSIOR

FOR SMOKING AND CHEWING TOBACCO.
Claims use since 1884.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 541,360. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill. Filed Nov. 15, 1947.

FOR DISINFECTANT, DEODORANT, ANTISEPTIC, LARVACIDE, FUMIGANT, AND HERBICIDE.
Claims use since 1920.

Ser. No. 552,496. ROMERO DRUG COMPANY, San Antonio, Tex., assignor to Charles T. Johnson, San Antonio, Tex. Filed Mar. 19, 1948.

CANARY PILLS

The word "Pills" is disclaimed.
FOR LAXATIVE PILLS.
Claims use since June 1920.

Ser. No. 566,478. SCHERING CORPORATION, Bloomfield, N. J. Filed Oct. 5, 1948.

TRICOMBISUL

FOR MIXTURE OF SULFONAMIDE DRUGS FOR THE TREATMENT OF BACTERIAL INFECTIONS.
Claims use since Sept. 2, 1948.

Ser. No. 570,209. KATZ DRUG COMPANY, Kansas City, Mo. Filed Dec. 8, 1948. (Classified in Class 51.)

Katz

Applicant claims ownership of registration No. 317,146.
FOR TINCTURE OF GREEN SOAP; BORIC ACID CRYSTALS AND POWDER, OXALIC ACID, SALICYLIC ACID, TANNIC ACID, TARTARIC ACID, POWDERED ALUM, LUMP ALUM, BLUE VITRIOL, CALOMEL POWDER, COMPOUND LICORICE POWDER, COPPERAS CRYSTAL, CREAM OF TARTAR, FLAKE WHITE, FLAXSEED MEAL, LEAD SUGAR, LEAVES HENNA POWDER, MOTH BALLS, POTASSIUM PERMANGANATE, NAPHTHALENE FLAKES, POWDERED ROSIN, EPSOM SALTS, SALT PETRE, ROCHELLE SALT, SODIUM FLUORIDE, SULPHUR, ZINC OXIDE POWDER, ZINC SULPHATE, CARBOLIC ACID, CRUDE CARBOLIC ACID, MURIATIC ACID, WOOD ALCOHOL, AMMONIA WATER, BED BUG POISON, ESSENCE PEPPERMINT, FORMALDEHYDE, GLYCERINE, CASTOR OIL, CAMPHORATED OIL, OIL CITRONELLA, OIL EUCALYPTUS, OIL WINTERGREEN SYNTHETIC, ROSE WATER, BENZOIN COMPOUND, WATER GLASS, LACTIC ACID, COD LIVER OIL; BORIC ACID SOLUTION, AROMATIC SPIRITS AMMONIA, CASCARA AROMATIC, CHLOROFORM LINIMENT, LIME WATER, MEDICINAL MINERAL OIL, PAREGORIC, DOBELL'S SOLUTION, SPIRITS CAMPHOR, SWEET SPIRIT NITRE, TINCTURE IODINE, RUBBING ALCOHOL, MILK OF MAGNESIA, ASPIRIN; BAY RUM, EXTRACT WITCH HAZEL, GLYCERINE AND BAY RUM, GLYCERINE AND ROSE WATER, GLYCERINE WITH BAY RUM AND ROSE WATER.
Claims use since Sept. 5, 1928.

Ser. No. 570,739. MRS. ANNE S. LEFKOFF, doing business under the name of Savex Laboratories, Atlanta, Ga. Filed Oct. 22, 1948.

SAVEX

FOR SALVE FOR THE SKIN AND SCALP, FOR THE RELIEF OF TOE ITCH, ECZEMA, PIMPLES, DANDRUFF, AND BITES OF INSECTS.
Claims use since July 20, 1927.

Ser. No. 570,806. G. S. STODDARD & CO., INC., New York, N. Y. Filed Dec. 18, 1948.

THEOBUTIN

Applicant claims ownership of Registration No. 221,436.
FOR DIURETIC.
Claims use since Oct. 1, 1934.

Ser. No. 579,493. FRANCIS J. GAST, doing business as Frank-Lax Co., Minneapolis, Minn. Filed May 25, 1949.

FRANK-LAX

The word "Lax" is disclaimed.
FOR LAXATIVE.
Claims use since Aug. 2, 1948.

Ser. No. 579,710. REED & CARNRICK, Jersey City, N. J. Filed May 28, 1949.

Alrac

FOR PHARMACEUTICAL PREPARATION IN TABLET FORM FOR USE AS ANTACID.
Claims use since Apr. 29, 1949.

Ser. No. 579,711. REED & CARNRICK, Jersey City, N. J. Filed May 28, 1949.

Alracomp

FOR PHARMACEUTICAL PREPARATION IN TABLET FORM FOR USE AS ANTACID.
Claims use since Apr. 29, 1949.

Ser. No. 579,855. BRISTOL LABORATORIES INC., New York and Syracuse, N. Y. Filed June 2, 1949.

Venettes

FOR PENICILLIN CHEWING TROCHES.
Claims use since Apr. 18, 1949.

Ser. No. 579,857. BRISTOL LABORATORIES INC., New York and Syracuse, N. Y. Filed June 2, 1949.

MYRILIDINE

FOR ANTISPASMODIC.
Claims use since May 9, 1949.

Ser. No. 584,202. J. T. NAVARETTE, doing business as International Drug Store, Sacramento, Calif. Filed Aug. 29, 1949.

RASCASAN

FOR OINTMENT USED IN THE TREATMENT OF ITCHES OF ALL KIND.
Claims use since April 1942.

Ser. No. 585,223. HARRY FREEMAN, doing business as Vitavim Company, New Bedford, Mass. Filed Sept. 23, 1949.

B-Z B-Z

BURN-Z

The word "Burnz" is disclaimed.
FOR OINTMENT FOR THE TREATMENT OF BURNS.
Claims use since June 15, 1928.

Ser. No. 586,695. IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, London, England. Filed Oct. 22, 1949.

AVLODEX

Applicant claims ownership of British Registration No. 619,438, dated July 10, 1942.
FOR PESTICIDAL VETERINARY PRODUCTS FOR INTERNAL APPLICATION.

Ser. No. 587,055. SWAN'S ENTERPRISES, INC., Andrews, N. C. Filed Oct. 29, 1949.

CERIDE

FOR PREPARATION AND TREATMENT FOR THE RELIEF OF ARTHRITIS AND PARALYSIS.
Claims use since Aug. 10, 1949.

Ser. No. 587,508. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed Nov. 8, 1949.

D.H.E. 45

FOR MEDICINAL PREPARATION CONTAINING DIHYDROERGOTAMINE AND RECOMMENDED FOR THE TREATMENT OF MIGRAINE.
Claims use since 1940.

Ser. No. 587,880. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

ANSEMCO

FOR MEDICINAL PREPARATION PROVIDING AN ANALGESIC AND ANTIPYRETIC EFFECT.
Claims use since Oct. 24, 1945.

Ser. No. 587,881. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

CIMADROX

FOR MEDICINAL PREPARATION DESIGNED FOR THE TREATMENT OF PEPTIC ULCER. IT PROMOTES EFFECTIVE NEUTRALIZATION OF GASTRIC ACIDITY TOGETHER WITH ADEQUATE QUANTITIES OF SODIUM ASCORBATE TO PROMOTE THE HEALING OF PEPTIC ULCER LESIONS.
Claims use since Oct. 22, 1947.

Ser. No. 587,883. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

DECALBION

FOR MEDICINAL PREPARATION PROVIDING SPECIFICALLY THOSE VITAMINS AND MINERALS, THE NEED FOR WHICH IS GREATLY INCREASED DURING PREGNANCY AND LACTATION.
Claims use since Feb. 27, 1946.

Ser. No. 587,884. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

DROPLEX

FOR MEDICINAL PREPARATION USEFUL IN THE ROUTINE PROPHYLAXIS AND PREVENTION OF B-COMPLEX DEFICIENCY AND SECONDARY ANEMIA IN INFANTS, CHILDREN, AND ADULTS.
Claims use since July 23, 1947.

Ser. No. 587,886. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

MORUGUENT

FOR MEDICINAL PREPARATION CONTAINING COD-LIVER OIL CONCENTRATE IN A LANOLIN-PETROLATUM BASE, INDICATED IN TREATMENT OF BURNS, ULCERS, PYROGENIC SKIN INFECTION, MINOR SKIN ABRASIONS, AND SIMILAR CONDITIONS.
Claims use since Jan. 1, 1938.

Ser. No. 587,887. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

MORUMIDE

FOR MEDICINAL PREPARATION OF COD-LIVER OIL CONCENTRATE PLUS SULFANILAMIDE IN AN APPROPRIATE BASE. IT IS RECOMMENDED IN THE TREATMENT OF BURNS, ULCERS, PYROGENIC SKIN INFECTIONS, CLEAN AND INFECTED WOUNDS, MINOR SKIN ABRASIONS AND SIMILAR CONDITIONS.
Claims use since Jan. 1, 1945.

Ser. No. 587,888. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

NAPENTAL

FOR MEDICINAL PREPARATION, BEING A BRAND OF PENTOBARBITAL SODIUM, INDICATED FOR USE AS A GENERAL NERVE SEDATIVE OR AS A HYPNOTIC.
Claims use since Dec. 23, 1942.

Ser. No. 587,890. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

NOVISYN

FOR MEDICINAL INJECTABLE PREPARATION DESIGNED TO CORRECT VITAMIN B-COMPLEX DEFICIENCIES.
Claims use since Jan. 12, 1944.

Ser. No. 587,891. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

PAOGUAN

FOR MEDICINAL PREPARATION INDICATED FOR USE IN THE TREATMENT OF ACUTE BACILLARY

DYSENTERY IN ADULTS AND CHILDREN, ALSO FOR GASTROENTERITIS, COLITIS, AND AS ADJUNCT TREATMENT IN ULCERATIVE COLITIS.
Claims use since July 11, 1949.

Ser. No. 587,893. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

SALCEDROX

FOR MEDICINAL PREPARATION INDICATED FOR THE TREATMENT OF RHEUMATIC FEVER AND RHEUMATOID ARTHRITIS. THE PRODUCT IS ALSO ANALGESIC AND ANTIPYRETIC IN ACTION.
Claims use since May 4, 1949.

Ser. No. 587,895. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

SEMESTRIN

FOR MEDICINAL PREPARATION REPRESENTING A BRAND OF NATURAL ESTROGENIC SUBSTANCES, PREDOMINANTLY ESTRONE, OBTAINED FROM PREGNANT MARE'S URINE.
Claims use since Jan. 1, 1939.

Ser. No. 587,896. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

SEMPYLEX

FOR MEDICINAL PREPARATION DESIGNED FOR USE IN THE CONTROL OF NAUSEA AND VOMITING OF PREGNANCY.
Claims use since Oct. 15, 1947.

Ser. No. 587 897. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Nov. 16, 1949.

SEMVITA

FOR MEDICINAL PREPARATION CONTAINING THE IMPORTANT FAT-SOLUBLE AND WATER SOLUBLE VITAMINS.
Claims use since Feb. 21, 1945.

Ser. No. 588,375. M. J. LEWENSTEIN, doing business as Ac-Re Chemical Company, Kew Gardens, N. Y. Filed Nov. 26, 1949.

SEDACRENE

FOR SEDATIVE.
Claims use since Oct. 3, 1949.

Ser. No. 589,483. VAN PELT AND BROWN, INCORPORATED, Richmond, Va. Filed Dec. 16, 1949.

PYRA-MALEATE

The word "Maleate" is disclaimed.
FOR ANTIHISTAMINIC TABLETS.
Claims use since Dec. 3, 1949.

Ser. No. 589,544. ABBOTT LABORATORIES, North Chicago, Ill. Filed Dec. 19, 1949.

VITA-DULCET

The word "Vita" is disclaimed. Applicant claims ownership of Registration No. 500,527.
FOR MULTIPLE VITAMIN TABLETS.
Claims use since Dec. 14, 1949.

Ser. No. 589,859. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Dec. 23, 1949.

DYLHISTA

FOR MEDICINAL PREPARATION OF THENYLPYRAMINE HYDROCHLORIDE USED IN THE TREATMENT OF ALLERGIC SYMPTOMS.
Claims use since Dec. 12, 1949.

Ser. No. 589,962. EDGAR A. FERGUSON, doing business as Edgar A. Ferguson, Pharmaceutical Products of Research, Brooklyn, N. Y. Filed Dec. 27, 1949.

BI-DIGIN

FOR DIGITALIS PREPARATION.
Claims use since Oct. 21, 1949.

Ser. No. 589,963. EDGAR A. FERGUSON, doing business as Edgar A. Ferguson, Pharmaceutical Products of Research, Brooklyn, N. Y. Filed Dec. 27, 1949.

ROXMA

FOR PREPARATION FOR ALLEVIATING THE PAROXYSMS OF ASTHMA.
Claims use since Oct. 3, 1949.

Ser. No. 590,329. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Jan. 4, 1950.

CREMOTRES

Applicant claims ownership of Registrations Nos. 516,524 and 565,140.
FOR ANTIBACTERIAL PREPARATION.
Claims use since Nov. 21, 1949.

Ser. No. 590,668. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

ACITAMIN

FOR PHARMACEUTICAL PREPARATION INDICATED IN THE TREATMENT OF GASTRIC HYPO- AND ACHLORHYDRIA.
Claims use since May 21, 1947.

Ser. No. 590,673. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

BICAREX

FOR PHARMACEUTICAL PREPARATION HAVING BILIARY STIMULANT AND LAXATIVE ACTIONS.

THE PREPARATION IS EFFECTIVE IN MANAGEMENT OF THE LARGE GROUP OF PATIENTS WITH SYMPTOMS OF CHRONIC CHOLECYSTITIS, IN WHICH CHOLECYSTECTOMY IS NOT DEEMED INDICATED.
Claims use since Sept. 13, 1938.

Ser. No. 590,677. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

CALGLUDEX

FOR PHARMACEUTICAL PREPARATION FOR VETERINARY USE IN THE TREATMENT OF VARIOUS CALCIUM DEFICIENCIES.
Claims use since Dec. 22, 1937.

Ser. No. 590,678. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

DEPHOS

FOR PHARMACEUTICAL PREPARATION PROVIDING VITAMINS AND MINERALS, THE NEED FOR WHICH IS INCREASED DURING PREGNANCY AND LACTATION, AND FOR SUPPLEMENTING THE DIET OF CHILDREN AND ADULTS.
Claims use since Nov. 18, 1942.

Ser. No. 590,680. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

EXAVITA

FOR PHARMACEUTICAL PANVITAMIN PREPARATION INDICATED FOR THE TREATMENT OF MULTIPLE VITAMIN DEFICIENCIES.
Claims use since Mar. 28, 1945.

Ser. No. 590,682. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

KAMADROX

FOR PHARMACEUTICAL PREPARATION INDICATED FOR ANTACID THERAPY IN REDUCING THE ACIDITY OF THE GASTRIC JUICE EFFECTIVELY WITHOUT INTERFERING WITH NORMAL METABOLIC FUNCTIONS AND WITHOUT CAUSING AN ALKALOSIS OR ACID REBOUND.
Claims use since Jan. 1, 1939.

Ser. No. 590,684. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

MERBEZOLE

FOR PHARMACEUTICAL PREPARATION WHICH IS OF VALUE ESPECIALLY IN TREATMENT OF TONSILLITIS, PERITONSILLITIS, PHARYNGITIS, AND GINGIVITIS DUE TO STREPTOCOCCAL OR STAPHYLOCOCCAL INVASION. VINCENT'S INFECTION OF THE TONSILS, PHARYNX OR GUMS IS ALSO BENEFITED.
Claims use since July 12, 1944.

Ser. No. 590,686. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

PAOCIN

FOR PHARMACEUTICAL PREPARATION INDICATED FOR THE TREATMENT OF GASTRIC DISTURBANCES, SUCH AS DIARRHEA.
Claims use since Feb. 16, 1944.

Ser. No. 590,690. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

SEMOXYDRIN

FOR PHARMACEUTICAL PREPARATION CONTAINING DEXTRO DESOXYEPHEDRINE, AND WHICH IS INDICATED FOR ELIMINATION OF FATIGUE, AS AN ANALEPTIC AND FOR OVERCOMING MILD MENTAL DEPRESSION.
Claims use since Aug. 27, 1947.

Ser. No. 590,691. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

SEMUGATE

FOR PHARMACEUTICAL PREPARATION OF CONJUGATED NATURAL ESTROGENS INDICATED AS SUBSTITUTIONAL THERAPY IN CONDITIONS DUE TO ESTROGEN DEFICIENCY.
Claims use since June 22, 1949.

Ser. No. 590,692. THE S. E. MASSENGILL COMPANY, Bristol, Tenn. Filed Jan. 11, 1950.

SYBOTAN

FOR PHARMACEUTICAL PREPARATION HAVING VASODILATOR AND SEDATIVE ACTION.
Claims use since Jan. 5, 1949.

Ser. No. 591,730. HORTON & CONVERSE, Los Angeles, Calif. Filed Jan. 31, 1950.

B-TWEL

The letter "B" is disclaimed.
FOR PREPARATIONS OF VITAMIN B-12 FOR PARENTERAL AND/OR ORAL DOSAGE FORMS.
Claims use since Dec. 21, 1949.

Ser. No. 592,483. DURMA PRODUCTS CO., Minneapolis, Minn. Filed Feb. 15, 1950.

SLUMBERDENT

FOR PREPARATION TO BE APPLIED TO THE GUMS OF TEETHING BABIES TO DEADEN PAIN.
Claims use since June 15, 1947.

Ser. No. 592,519. WILLIAM H. ROHER, INC., Philadelphia, Pa. Filed Feb. 15, 1950.

NEOXYN

FOR LOTION FOR USE IN THE TREATMENT OF POISON IVY DERMATITIS.
Claims use since Jan. 31, 1950.

Ser. No. 592,533. WYETH INCORPORATED, Philadelphia, Pa. Filed Feb. 15, 1950.

ARTISONE

FOR STEROIDS IN DOSAGE FORM.
Claims use since Jan. 25, 1950.

Ser. No. 592,866. BORCHERDT MALT EXTRACT COMPANY, Chicago, Ill. Filed Feb. 23, 1950.

Urolithia

Applicant claims ownership of Registration No. 331,918.
FOR MEDICINE COMPRISING A COMBINATION OF METHENAMINE, SODIUM BENZOATE, LITHIUM BENZOATE, TRITICUM, ZEA, AND GLYCERINE FOR USE AS A GENITO-URINARY, GASTRO-INTESTINAL ANTISEPTIC, DIURETIC, AND ELIMINANT.
Claims use since Mar. 11, 1914.

Ser. No. 593,032. HENRY K. WAMPOLE & COMPANY, INCORPORATED, Philadelphia, Pa. Filed Feb. 24, 1950.

ORGANIPHEN

Applicant claims ownership of Registration No. 109,301.
FOR MEDICINAL IODINE PREPARATION FOR INTERNAL USE, THE THERAPEUTIC COMPONENTS OF WHICH ARE PHENOBARBITAL AND COMPOUNDS OF IODINE.
Claims use since Nov. 18, 1949.

Ser. No. 593,076. MCNEIL LABORATORIES, INCORPORATED, Philadelphia, Pa. Filed Feb. 25, 1950.

Liquoid

Applicant claims ownership of Registration No. 378,614.
FOR MEDICINAL AND PHARMACEUTICAL PREPARATIONS IN THE FORM OF A PALATABLE HOMOGENIZED DISPERSION AND SUSPENSION FOR ORAL ADMINISTRATION.
Claims use since Nov. 17, 1938.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 592,353. YOUNGSTOWN MANUFACTURING, INCORPORATED, Youngstown, Ohio. Filed Feb. 11, 1950.

Duradec

The representation of the goods is disclaimed.
FOR SINK COUNTER COVERING COMPRISING PLASTIC SHEET MATERIAL FORMED OF SYNTHETIC RESINS AND PAPER.
Claims use since Dec. 15, 1949.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 515,560. HOCKADAY, INC., Chicago, Ill. Original filed, act of 1905, Jan. 10, 1947; amended to application under act of 1946, Principal Register, Apr. 2, 1948. (Sec. 2f.)

KRO-MA-LAC

FOR ELECTRICAL INSULATING VARNISHES.
Claims use since 1920.

Ser. No. 555,091. ESSEX WIRE CORPORATION, Detroit, Mich. Filed Apr. 20, 1948.

The representation of wire is disclaimed. Applicant claims ownership of Registrations Nos. 20,916 and 55,559.
FOR INSULATED ELECTRIC WIRES AND INSULATED ELECTRIC CABLES.
Claims use since Jan. 1, 1892.

Ser. No. 574,794. SPRAGUE ELECTRIC COMPANY, North Adams, Mass. Filed Mar. 2, 1949. (Sec. 2f as to "Sprague.")

SPRAGUE

Applicant claims ownership of Registration No. 513,623.
FOR ALKALINE PRIMARY CELLS.
Claims use since Nov. 13, 1948, on the mark as shown; and since July 1926 on the term "Sprague."

Ser. No. 576,962. EAGLE ELECTRONICS, INC., New York, N. Y. Filed Apr. 12, 1949.

TELERAMIC

The representation of the television receiver front panel is disclaimed.
FOR TELEVISION RECEIVING SETS.
Claims use since November 1948.

Ser. No. 577,577. KISCO COMPANY, INC., St. Louis, Mo. Filed Apr. 23, 1949.

CIRCULAIR

Applicant claims ownership of Registrations Nos. 259,443 and 395,746.
FOR AIR CIRCULATING DEVICES EACH EMBODYING A FAN AND A BAFFLE ADJACENT THERETO, AND COMPRISING MODELS FOR FLOOR, TABLE OR CEILING SUPPORT.
Claims use since Jan. 10, 1929.

Ser. No. 578,156. MERCANTILE STORES COMPANY, INC., Wilmington, Del. Filed May 3, 1949.

S.P.M.

FOR RADIO RECEIVING SETS, TELEVISION RECEIVING SETS, COMBINATION RADIO AND RECORD PLAYERS, MAGNETIC SOUND RECORDERS, ELECTRIC RECORD PLAYERS, ELECTRIC FOOD AND WASTE DISPOSAL MACHINES, AND ELECTRIC DISH WASHING MACHINES, ELECTRIC VACUUM CLEANERS, ELECTRIC FLOOR POLISHING MACHINES, ELECTRIC FOOD MIXERS, ELECTRIC WAFFLE IRONS, ELECTRIC SANDWICH GRILLS, ELECTRIC STOVES, ELECTRIC TOASTERS, ELECTRIC ROASTERS, ELECTRIC BROILERS, ELECTRIC IRONS, ELECTRIC COFFEE MAKERS, ELECTRIC FANS, HEATING PADS FOR GENERAL USE, ELECTRIC HOT PLATES, EXTENSION CORDS, AND ELECTRIC BLANKETS.
Claims use since May 16, 1947.

Ser. No. 591,498. THE LINCOLN ELECTRIC COMPANY, Cleveland, Ohio. Filed Jan. 26, 1950.

LINCOLNDUCTOR

FOR WIRE CABLE FOR CONDUCTING ELECTRIC CURRENT AND CONNECTORS AND CLAMPS DESIGNED FOR USE WITH SUCH CABLE.
Claims use since Sept. 26, 1949.

Ser. No. 593,941. STANDARD ELECTRIC COMPANY, INC., San Antonio, Tex. Filed Mar. 14, 1950. (Sec. 2f.)

Ful-o-Pep

FOR STORAGE BATTERIES.
Claims use since Jan. 1, 1920.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 564,804. BATGER & COMPANY LIMITED, London, England. Filed Sept. 8, 1948.

HARLEQUIN

Applicant claims ownership of English Registration No. 646,112, dated Mar. 21, 1946.
FOR DECORATIVE PARTY FAVORS OF THE SNAPPER TYPE, CONTAINING PAPER HATS, TOYS, AND OTHER NOVELTY ITEMS.

Ser. No. 581,612. PLAYTIME PRODUCTIONS, INC., Chicago, Ill. Filed July 7, 1949.

Busy Biddy

The term "Biddy" is disclaimed.
FOR TOY IN THE REPRESENTATION OF A CHICKEN.
Claims use since Mar. 10, 1949.

Ser. No. 585,082. THE SEAMLESS RUBBER COMPANY, New Haven, Conn. Filed Sept. 16, 1949.

KOLITE

FOR COVERS FOR BASKETBALLS, FOOTBALLS, SOCCER BALLS, AND OTHER GAME BALLS.
Claims use since Feb. 25, 1949.

Ser. No. 585,478. PRO-FOOTBALL, INC., doing business as Washington Redskins, Washington, D. C. Filed Aug. 3, 1949.

WASHINGTON

REDSKINS

Applicant disclaims the word "Washington."
FOR FOOTBALLS.
Claims use since September 1947.

Ser. No. 586,764. PRECISION GOLF PRODUCTS CO., Chicago, Ill. Filed Oct. 24, 1949.

The drawing is lined for shading.
FOR GOLF EQUIPMENT — NAMELY, PRACTICE BALLS, PRACTICE NETS, AND PRACTICE SWING ADJUSTERS.
Claims use since May 15, 1949.

Ser. No. 536,938. MALCOLM REYBOLD, New York, N. Y. Filed Oct. 27, 1949.

DOGHOUSE

FOR GAME PLAYED WITH DICE.
Claims use since 1939.

Ser. No. 537,102. M. DENKERT & COMPANY, Johnstown, N. Y. Filed Nov. 1, 1949.

Sure Trap

FOR BASEBALL GLOVES AND MITTS.
Claims use since Sept. 30, 1949.

Ser. No. 538,297. THOMAS J. HALL, Indianapolis, Ind. Filed Nov. 25, 1949.

Hall-marked

The surname "Hall" is disclaimed.
FOR FISHING TACKLE—NAMELY, CUSTOM FLIES.
Claims use since Aug. 10, 1949.

Ser. No. 538,572. THE GARTON TOY COMPANY, Sheboygan, Wis. Filed Nov. 30, 1949.

Kidillac

FOR CHILDREN'S PEDAL CARS.
Claims use since Oct. 5, 1949.

Ser. No. 538,717. JOHN O. TRIMBLE, doing business as Voo Doo Lure Co., San Francisco, Calif. Filed Dec. 2, 1949.

Voo Doo

FOR ARTIFICIAL FISHING LURES.
Claims use since Jan. 15, 1948.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 536,479. A-B-C PACKAGING MACHINE CORPORATION, Quincy, Ill. Filed Oct. 2, 1947.

The drawing is lined for the colors red and blue.
FOR AUTOMATIC MACHINES FOR SEALING THE TOP AND BOTTOM FLAPS OF CARTONS, SEMI-AUTOMATIC MACHINES FOR SEALING THE BOTTOM FLAPS OF CARTONS, AUTOMATIC MACHINES FOR SEALING THE TOP FLAPS OF CARTONS, MANUALLY ACTUATED CARTON GLUING MACHINES SIDE SEALERS, MACHINES FOR UNLOADING ITEMS FROM CARTONS, MACHINES FOR PACKING BOTTLES, CANS, AND THE LIKE IN CARTONS, MACHINES FOR UNSCRAMBLING BOTTLES, CANS, AND THE LIKE, AND CONVEYER MACHINES OF THE TYPE FOR HANDLING BOTTLES, CANS, AND THE LIKE.
Claims use since Nov. 1, 1944.

Ser. No. 540,357. HILL-CLARKE MACHINERY COMPANY, Chicago, Ill. Filed Aug. 5, 1947. (Sec. 2f.)

ReMANUFACTURED —(ORIGINATED BY US)— MACHINE TOOLS

The words "Machine Tools" are disclaimed. Applicant claims ownership of Registration No. 144,121.
FOR METAL-WORKING MACHINERY AND TOOLS CONSISTING OF AUTOMATIC MACHINES, BENDING-MACHINES, BOLT AND NUT MACHINERY, BORING-MACHINES, DRILLING-MACHINES, BROACHING-MACHINES, BUFFING-MACHINES, CENTERING MACHINES, CHUCKING-MACHINES, FORGING-MACHINES, GEAR-CUTTING MACHINES, POWER-HAMMERS, HOBBING-MACHINES, HYDRAULIC MACHINES, LATHES, KEY-SEATERS, MILLING-MACHINES, PLANERS, SHAPERS, PRESSING AND FORMING MACHINES, ROLLING-MACHINES, SCREW-MACHINES; SHEARING, PUNCHING, AND STAMPING MACHINES; SLOTTERS, TAPPING-MACHINES, THREADING-MACHINES, TURRET-MACHINES, AND PARTS OF SAID MACHINES AND TOOLS.
Claims use since Apr. 1, 1916.

Ser. No. 552,584. DURA-BOND, INCORPORATED, Ann Arbor, Mich. Filed Mar. 20, 1948.

DURA-BOND

The word "Bond" is disclaimed.
FOR BRAKE SHOE BONDING KIT SOLD AS A UNIT WHICH COMPRISES PRESSURE BANDS, SPREADER BARS, BENCH PRESSURE TABLES, HEAT-RESISTING MITTS, BRAKE-BOND OVEN, CHISEL AND BENCH GRINDER.
Claims use since Jan. 30, 1948.

Ser. No. 557,877. UNITED METAL PRODUCTS CORP., Detroit, Mich. Filed May 26, 1948.

"Pro"

FOR MECHANICAL GOLF BALL MARKERS FOR ENGRAVING NAMES, NUMBERS, AND OTHER LEGENDS ON GOLF BALLS.
Claims use since April 1947.

Ser. No. 561,841. MASBACK INCORPORATED, New York, N. Y. Filed July 21, 1948.

Red Diamond

FOR ASH PIT SCOOPS; BOW RAKES; CARPET SWEEPERS; CORN HOE HANDLES; CORN HOES; CULTIVATOR; DRAWING KNIVES; GARDEN TOOLS—NAMELY, GARDEN HOES, GARDEN RAKE HANDLES, GARDEN TOOL REPAIR HANDLES, MORTAR HOES, HEDGE SHEARS; HALF HATCHETS; HATCHET HANDLES; HAY FORK HANDLES; HAY FORKS; HOE HANDLE; HOUSE AXE; HOUSEHOLD SNIPS; ICE SCRAPER; LAWN MOWER PARTS; LAWN MOWERS; LAWN RAKES; LINOLEUM KNIVES; MANURE FORK HANDLES; MANURE FORKS; MASON'S HAMMER HANDLES; MEADOW HOE; PLASTERING TROWELS; POINTING TROWELS; POTATO HOOKS; PRUNING SAWS; PUTTY AND SCRAPING KNIFE ASSORTMENT; PUTTY KNIVES; QUILT FRAME CLAMP; RAKE HANDLES; RAKES; SCOOP HANDLES; SCOOPS; SCOUT AXE HANDLE; SCRAPING KNIFE ASSORTMENT; SCRAPING KNIVES; SHOVELS; SNOW SHOVEL; SPADE HANDLES; SPADES; SPADING FORK HANDLES; SPADING FORKS; STONE CUTTERS' HAMMER HANDLE; WRECKING BARS.
Claims use since Nov. 6, 1930.

Ser. No. 563,465. HAMMOND MACHINERY BUILDERS, INC., Kalamazoo, Mich. Filed Aug. 16, 1948. (Sec. 2f.)

HAMMOND
Router Planer

The term "Router Planer" is disclaimed.
FOR MACHINES FOR MACHINING PRINTING PLATES, STEREOTYPE PLATES, AND THE LIKE.
Claims use since Sept. 25, 1934.

Ser. No. 566,082. JAMES J. JOYCE, New York, N. Y. Filed Sept. 29, 1948.

PUTTY MASTER

The word "Putty" is disclaimed.
FOR PUTTY KNIVES.
Claims use since November 1940.

Ser. No. 569,230. THERMOID COMPANY, Trenton, N. J. Filed Nov. 22, 1948.

Thermoid

Applicant claims ownership of Registrations Nos. 74,491, 118,447, 123,294, 216,976, 259,425, and 331,598.
FOR HYDRAULIC BRAKE PARTS COMPRISING MASTER CYLINDERS, WHEEL CYLINDERS, PISTONS, CUPS, AND CYLINDER HEADS.
Claims use since Apr. 17, 1948.

Ser. No. 570,482. THE DAYBROOK HYDRAULIC CORPORATION, Bowling Green, Ohio. Filed Dec. 14, 1948.

Speedlift

Applicant claims ownership of Registration No. 416,380.
FOR HYDRAULIC LIFT MECHANISMS FOR DUMP TRUCKS AND THE LIKE.
Claims use since Dec. 18, 1939.

Ser. No. 570,776. B. F. GUMP CO., Chicago, Ill. Filed Dec. 18, 1948.

MASTER

Applicant claims ownership of Registration No. 251,475.
FOR INDUSTRIAL BLENDING AND MIXING MACHINES AS DISTINGUISHED FROM HOUSEHOLD MIXERS, FOR BLENDING AND MIXING ALL KINDS OF WHOLE, GRANULATED, OR GROUND GRAINS, CEREALS, SEEDS, FLOUR, DRY CHEMICALS, MINERALS, OR ANY DRY MATERIALS OF A NATURE THAT CAN BE HANDLED THROUGH PROPORTIONING FEEDERS OR SPIRAL CONVEYORS.
Claims use since Nov. 1, 1921.

Ser. No. 573,695. HENRY C. WHITWORTH, doing business as The Whitworth Supply Company. Denver, Colo. Filed Feb. 10, 1949.

WHITSCO

FOR TRACTORS, PLOWS, HARROWS, MOWERS, BALING MACHINES, SPRAYERS, CATTLE CHUTES, HARVESTERS, CULTIVATORS, PUMPS, AND PARTS THEREOF.
Claims use since Jan. 10, 1949.

Ser. No. 577,893. THE LUFKIN RULE CO., Saginaw, Mich. Filed Apr. 28, 1949. (Sec. 2f.)

LUFKIN

Applicant claims ownership of Registration No. 54,338.
FOR TOOL MAKER'S CLAMPS; POCKET SCREW DRIVERS; DRIVE PIN PUNCHES, CENTER PUNCHES; HOLD-DOWNS, TO CLAMP AND HOLD WORK FLAT WITHOUT DISTORTION; AND GLASS CUTTERS.
Claims use since Sept. 1, 1903.

Ser. No. 579,047. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed May 18, 1949.

GENIE

FOR HAND OPERATED FIRE EXTINGUISHERS AND PARTS THEREOF.
Claims use since Oct. 29, 1948.

Ser. No. 580,073. JOE LOWE CORPORATION, New York, N. Y. Filed June 7, 1949.

The pictorial representation of the boy is fanciful.
FOR POCKET KNIVES.
Claims use since Feb. 17, 1949.

Ser. No. 590,472. WESTPFAL CUTLERY CO., New York, N. Y. Filed Jan. 6, 1950. (Sec. 2f.)

Westpfal

Applicant claims ownership of Registration No. 260,586.
FOR CUTLERY—NAMELY, FURRIERS' KNIVES.
Claims use since 1920.

Ser. No. 591,887. JERRY P. LESLEY, doing business as Cleo Razor Blade Co., Easley, S. C. Filed Jan. 31, 1950.

Cleo

FOR RAZOR BLADES FOR SAFETY RAZORS.
Claims use since Dec. 16, 1949.

Ser. No. 594,334. ROMAN RAICHERT COMPANY, INC., Chicago, Ill. Filed Mar. 21, 1950.

RAICO

The drawing is lined for the color gold.
FOR SEWING MACHINES, SEWING MACHINE HEADS, AND SEWING MACHINE PARTS AND ACCESSORIES.
Claims use since June 9, 1948.

Ser. No. 595,211. RODNEY HUNT MACHINE COMPANY, Orange, Mass. Filed Apr. 4, 1950.

EXPRESS

Applicant claims ownership of Registration No. 269,976.
FOR FULLING MILLS.
Claims use since Jan. 23, 1926.

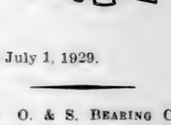
Ser. No. 595,372. FLEXENTRIK CO., San Francisco, Calif. Filed Apr. 7, 1950.

FleXentrik

FOR OSCILLATING COUPLINGS FOR SANDERS, GRINDERS, AND ROTARY POLISHERS AND BACK PADS THEREFOR.
Claims use since Sept. 21, 1948.

Ser. No. 595,955. HELLER BROTHERS COMPANY, Newark, N. J. Filed Apr. 19, 1950. (Sec. 2f.)

JOHNSON



FOR FILES.
Claims use since July 1, 1929.

Ser. No. 596,934. O. & S. BEARING COMPANY, Detroit, Mich. Filed May 5, 1950. (Sec. 2f.)

NeverOil

FOR LUBRICANT IMPREGNATED FABRIC BEARINGS AND BUSHINGS, LUBRICANT IMPREGNATED FABRIC BALL STUD ASSEMBLIES, LUBRICANT IMPREGNATED FABRIC SPRING INTERLINERS AND SHACKLE BEARINGS, LUBRICANT IMPREGNATED ASSEMBLIES FOR STEERING KNUCKLES AND SHOCK ABSORBER LINKS.
Claims use since 1914.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 592,016. C. CRETORS & CO., Chicago, Ill. Filed Feb. 6, 1950.

O. V. T.

FOR APPARATUS FOR MEASURING THE POPPING VOLUME OF POPPING CORN.
Claims use since Dec. 16, 1949.

Ser. No. 592,786. STERLING, INC., Milwaukee, Wis. Filed Feb. 20, 1950.

Sterlco

FOR LIQUID METERING PUMPS AND THERMOSTATIC TEMPERATURE REGULATOR VALVES.
Claims use since 1928.

Ser. No. 592,788. STERLING, INC., Milwaukee, Wis. Filed Feb. 20, 1950.

THERMOTROL

Applicant claims ownership of Registration No. 290,483.
FOR THERMOSTATIC TEMPERATURE REGULATOR VALVES.
Claims use since May 5, 1925.

Ser. No. 595,853. GEORGE SCHERR CO., New York, N. Y. Filed Apr. 17, 1950. (Sec. 2f.)

MAUSER

FOR CALIPERS.
Claims use since June 1, 1938.

Ser. No. 596,326. THE CADWELL CORPORATION, Beverly Hills, Calif. Filed Apr. 26, 1950.

CADDY
projectomat

FOR SLIDE PROJECTOR.
Claims use since Sept. 1, 1949.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 554,508. ONEIDA LTD., Sherrill and Oneida, N. Y. Filed Apr. 13, 1948.

SIMEON L. & GEORGE H. ROGERS COMPANY

The names of which the mark consists are those of once noted American silver manufacturers, now deceased.
Applicant claims ownership of Registration No. 151,931.
FOR SILVERPLATED FLAT AND HOLLOW TABLEWARE.
Claims use since 1901.

Ser. No. 588,107. SABEN GLASS COMPANY, New York, N. Y. Filed Nov. 19, 1949.

Royal Family

FOR STERLING SILVER WARE—NAMELY, COASTERS, HOLLOWARE, HANDLES FOR TABLE KNIVES, CARVING KNIVES, FORKS, SALAD FORKS, AND SILVER BANDS FOR GLASS COASTERS, DRINKING GLASSES, AND WATER PITCHERS.
Claims use since Oct. 16, 1949.

Ser. No. 589,994. STAR JEWELRY CO., INC., New York, N. Y. Filed Dec. 27, 1949.

SUNFROST

FOR JEWELRY FOR PERSONAL WEAR NOT INCLUDING WATCHES—NAMELY, EARRINGS, NECKLACES, BRACELETS, BROOCHES, AND ORNAMENTAL PINS.
Claims use since Jan. 2, 1949.

Ser. No. 591,772. DALE PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 1, 1950.

DALE

FOR EXPANDABLE WATCH BANDS MADE OF METAL.
Claims use since July 15, 1949.

Ser. No. 596,489. THE ELLMORE SILVER CO., INC., Meriden, Conn. Filed Apr. 28, 1950.

HARVEST

FOR STERLING SILVER FLATWARE AND HOLLOWWARE.
Claims use since Mar. 25, 1950.

Ser. No. 597,366. HOME DECORATORS, INC., Newark, N. Y. Filed May 11, 1950.

DISTINCTION

FOR SILVER-PLATED FLAT AND HOLLOW TABLEWARE.
Claims use since Mar. 20, 1950.

Ser. No. 597,624. ONEIDA LTD., Oneida, N. Y. Filed May 17, 1950.

GLENROSE

FOR SILVERPLATED FLAT AND HOLLOW TABLEWARE.
Claims use since Apr. 13, 1950.

Ser. No. 598,123. ARTHUR STUART COMPANY, Albuquerque, N. Mex. Filed May 25, 1950.

FOR STERLING SILVER FLATWARE.
Claims use since Aug. 15, 1949.

Ser. No. 598,656. SAMUEL KIRK & SON, INC., Baltimore, Md. Filed June 6, 1950.

Quadrille

FOR STERLING SILVER FLATWARE.
Claims use since April 1950.

Ser. No. 569,840. NATIONAL SILVER COMPANY, New York, N. Y. Filed June 27, 1950.

HOLIDAY

FOR STERLING SILVER AND SILVERPLATED FLATWARE.
Claims use since Mar. 24, 1950.

Ser. No. 600,734. ONEIDA LTD., Oneida and Sherrill, N. Y. Filed July 15, 1950.

OCL

FOR SILVERPLATED HOLLOW TABLEWARE.
Claims use since May 6, 1950.

Ser. No. 601,086. THE ALVIN CORPORATION, Providence, R. I. Filed July 22, 1950.

PRINCE EUGENE

FOR STERLING SILVER FLATWARE, HOLLOWWARE, AND TABLE CUTLERY.
Claims use since June 19, 1950.

Ser. No. 601,157. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

AINTREE

FOR SILVERPLATED FLATWARE.
Claims use since May 24, 1950.

Ser. No. 601,163. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

PORTRAIT

FOR SILVERPLATED FLATWARE.
Claims use since May 24, 1950.

Ser. No. 601,164. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

TAFFETA

FOR STERLING SILVER AND SILVERPLATED FLATWARE.
Claims use since Feb. 28, 1950.

Ser. No. 601,166. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

TOWN HOUSE

FOR STERLING SILVER FLATWARE.
Claims use since May 25, 1950.

Ser. No. 603,129. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass. Filed Sept. 2, 1950.

MEMORY LANE

FOR KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, LADLES, CLASP PINS SIMULATING SPOONS FOR WEAR ON WOMEN'S GARMENTS, NAPKIN RINGS, NAPKIN BANDS, NAPKIN MARKERS, SALT AND PEPPER SHAKERS, CUPS, BOWLS, PITCHERS, CANDLESTICKS, DISHES, COFFEE POTS, TEAPOTS, CHOCOLATE POTS, PLATTERS, SERVERS, VASES, TRAYS, MUGS, BOTTLES, COASTERS, JARS, BELLS AND BRACELETS, ALL OF THE FOREGOING BEING MADE OF STERLING SILVER.
Claims use since August 1949.

Ser. No. 603,641. NATIONAL SILVER COMPANY, New York, N. Y. Filed Sept. 16, 1950.

LADY BEAUTIFUL

FOR SILVERPLATED FLATWARE.
Claims use since July 13, 1950.

Ser. No. 603,754. PRISCILLA A. SLADE, Springdale, Conn. Filed Sept. 26, 1950.

ALEX

FOR HAND-MADE JEWELRY MADE OF STERLING SILVER, COPPER, AND OTHER PRECIOUS AND NONPRECIOUS METALS—NAMELY, FINGER RINGS, EARRINGS, BRACELETS, LAPEL PINS, CLIPS, NECKLACES, HAIR ORNAMENTS AND CORONETS, CHARMS, AND VARIOUS TYPES OF ORNAMENTAL PINS.
Claims use since Dec. 15, 1949.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 576,910. FICKETT-BROWN MANUFACTURING COMPANY, Atlanta, Ga. Filed Apr. 11, 1949.

"Kotton" is disclaimed. Applicant claims ownership of Registration No. 120,022.
FOR MOPS, MOP HEADS, BROOMS.
Claims use since 1912.

Ser. No. 590,248. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed Jan. 3, 1950.

The representation of a shaving brush is disclaimed. Applicant claims ownership of Registrations Nos. 136,740, 377,687, 122,565, 177,377, 130,008, and 149,633.
FOR SHAVING BRUSHES.
Claims use since Nov. 25, 1949.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 550,643. AMERICAN LAVA CORPORATION, Chattanooga, Tenn. Filed Feb. 27, 1948.

ALSIMAG

Applicant claims ownership of Registration No. 305,928.
FOR FIRED CERAMIC SHAPES, FORMED BY EXTRUDING, MOLDING, PRESSING, CUTTING, OR MACHINING, IN FORMS SUCH AS RODS, TUBES, BLOCKS, AND SHEETS, HAVING USE IN THE INDUSTRIAL ARTS.
Claims use since Sept. 13, 1933.

Ser. No. 586,083. ETHEL P. EMMERT, doing business under the name and style of Altone Studio, Pasadena, Calif. Filed Oct. 11, 1949.

FOR BISQUE FLOWER MOLDS IN WHICH CERAMIC FLOWERS ARE FORMED.
Claims use since Sept. 30, 1949.

Ser. No. 586,701. NATIONAL SILVER COMPANY, New York, N. Y. Filed Oct. 22, 1949.

WISE BUYS

FOR CERAMIC DINNERWARE.
Claims use since Sept. 19, 1949.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 572,623. TROOP WATER HEATER COMPANY, Pittsburgh, Pa. Filed Dec. 24, 1948.

TROOP

FOR WATER PURIFYING AND SOFTENING APPARATUS OF THE HOUSEHOLD TYPE.
Claims use since 1915.

Ser. No. 587,002. AMERICAN AIR FILTER COMPANY, INC., Louisville, Ky. Filed Oct. 29, 1949.

AMER-*glas*

"Glas," insofar as it is the equivalent of "glass," is disclaimed.
FOR MECHANICAL VISCOUS-IMPINGEMENT VENTILATING AIR FILTERS OF THE DISPOSABLE TYPE WHEREIN THE ENTIRE FILTER IS DISCARDED AFTER USE AND REPLACED BY A NEW FILTER INSTEAD OF BEING CLEANED.
Claims use since Oct. 14, 1949.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 551,351. JOHN WIDDICOMB CO., INC., NEW YORK, New York, N. Y. Filed Mar. 5, 1948.

FOR ARTICLES OF FURNITURE, THE PARTICULAR ARTICLES OF FURNITURE BEING BEDS, DRESSERS, MIRRORS, CHESTS OF DRAWERS, CHAIRS, TABLES, CONSOLES, BUFFETS, CABINETS, SECRETARIES, BOOK CASES, SOFAS, LOUNGES, DESKS, HASSOCKS, AND BED SPRINGS AND MATTRESSES.
Claims use since 1932.

Ser. No. 552,268. PERIMAN ENGINEERING CORPORATION, Los Angeles, Calif. Filed Mar. 18, 1948.

The word "Kard" and the representation of the goods are disclaimed.
FOR CARD FILING BOXES AND CARD FILING TRAYS.
Claims use since Oct. 28, 1947.

Ser. No. 567,908. DOR-CAB CORPORATION, Philadelphia, Pa. Filed Oct. 30, 1948.

The expression "Dor" is disclaimed. The diagonal lines are characteristic of glass. The drawing is horizontally lined to indicate the color blue.
FOR STORAGE AND UTILITY CABINETS FOR BATHROOMS, KITCHENS, BEDROOMS, AND OTHER DOMESTIC AND COMMERCIAL USES.
Claims use since Mar. 26, 1948.

Ser. No. 572,307. KANSAS CITY PRODUCTS COMPANY, Kansas City, Mo. Filed Jan. 17, 1949.

DINA-CAB

The words "By Kansas City Products Co., K. C. Mo." are disclaimed.
FOR COMBINED FOLDING TABLE AND HOUSING THEREFOR.
Claims use since Jan. 10, 1949.

Ser. No. 592,164. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 8, 1950.

FORECASTER

FOR HOUSEHOLD FURNITURE—NAMELY, UPHOLSTERED SOFAS, UPHOLSTERED CHAIRS, END

TABLES, BOOKCASES, CORNER TABLES, PHONOGRAPH RECORD CABINETS, COCKTAIL TABLES, PULL-UP CHAIRS, CARD TABLES, SEWING CABINETS, DINING TABLES, BUFFETS, CHINA CABINETS, BREAKFRONTS, CREDENZAS, ARM CHAIRS, SIDE CHAIRS, BEDS, DRESSERS, COMMODES, WARDROBES, CRIBS, CEDAR CHESTS, VANITY DRESSERS AND BENCHES, STORAGE CHESTS, CHESTS OF DRAWERS.
Claims use since Sept. 11, 1949.

Ser. No. 592,204. COLDEN MANUFACTURING CO., Elizabeth, N. J. Filed Feb. 9, 1950.

URI-SIST

FOR MATTRESSES.
Claims use since Dec. 12, 1949.

Ser. No. 592,285. SLUMBERLAND PRODUCTS CO., Roxbury, Mass. Filed Feb. 10, 1950.

Excellency

FOR MATTRESSES, BOX SPRINGS, AND INNERSPRING MATTRESSES.
Claims use since Jan. 6, 1950.

CLASS 34
HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 567,472. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif. Filed Oct. 22, 1948.

L-Blow

The word "Blow" is disclaimed.
FOR ELECTRICALLY OPERATED FANS AND BLOWERS FOR HEATING, VENTILATING, AND AIR CONDITIONING.
Claims use since June 30, 1947.

CLASS 35
BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 572,454. THE S AND M COMPANY, Minneapolis, Minn. Filed Jan. 19, 1949. (Sec. 2f.)

Gold Medal

Applicant claims ownership of Registration No. 321,108.
FOR AUTOMOBILE TIRES OF RUBBER OR COMBINATIONS OF RUBBER AND FABRIC.
Claims use since July 1, 1933.

CLASS 37
PAPER AND STATIONERY

Ser. No. 558,147. LEHN & FINK PRODUCTS CORPORATION, Bloomfield, N. J. Filed May 29, 1948. (Sec. 2f.)

DOROTHY GRAY

The mark is not intended to identify any particular individual. Applicant claims ownership of Registrations Nos. 200,419, 283,587, 285,634, 290,936, and 352,321.
FOR CLEANSING TISSUES.
Claims use since Mar. 17, 1921.

CLASS 39
CLOTHING

Ser. No. 549,087. RECORD INDUSTRIAL COMPANY, Philadelphia, Pa. Filed Feb. 7, 1948.

RICO

FOR RAINCOATS, RAIN SUITS, FIRE COATS, WATER PROOF WORK SUITS, JACKETS, OVERALLS, AND RUBBER HATS FOR MEN AND WOMEN, GLOVES, GAUNTLETS, AND MITTENS OF ASBESTOS, FABRIC, LEATHER, NEOPRENE AND RUBBER, APRONS, LEGGINGS, ARCTICS, BOOTS, SHOES, AND SPATS.
Claims use since December 1935.

Ser. No. 558,207. BLUME KNITWEAR, INC., New York, N. Y. Filed June 1, 1948.

Helen Harper

"Helen Harper" is a fanciful name. Applicant claims ownership of Registration No. 371,336.
FOR KNITWEAR—NAMELY, WOMEN'S AND CHILDREN'S SWEATERS, BLOUSES, SKIRTS, SUITS, SWIMSUITS, PLAYSUITS, DRESSES, CAPS, SCARFS, AND COATS, ALL MADE OF WOOL, SILK, COTTON, RAYON, OR COMBINATIONS THEREOF.
Claims use since May 1, 1938.

Ser. No. 558,920. OSHKOSH B'GOSH, INC., Oshkosh, Wis. Filed June 10, 1948. (Sec. 2f.)

TUFFEST

FOR OVERALLS, WORK SHIRTS, COATS, JACKETS, AND PANTS.
Claims use since June 1, 1938.

Ser. No. 561,376. CONTINENTAL MILLS, INC., Philadelphia, Pa. Filed Jan. 22, 1948.

Applicant claims ownership of Registration No. 290,055.
FOR MEN'S, WOMEN'S, BOYS', GIRLS', CHILDREN'S, AND INFANTS' OVERCOATS, TOPCOATS, COATS,

SUITS, VESTS, TROUSERS, SLACKS, CLOAKS, CAPES, COAT SETS, AND LEGGING SETS, ALL MADE OF TEXTILE FABRICS.
Claims use since Sept. 1, 1919.

Ser. No. 561,701. VANITY FAIR MILLS, INC., Reading, Pa. Filed July 19, 1948.

VANITIQUE

Applicant claims ownership of Registrations Nos. 141,456, 183,424, 130,430, 378,880, 305,749, 316,529, 116,092, 304,520, 175,517, 139,422, and 239,000.
FOR UNDERWEAR, LINGERIE, AND SLEEPING GARMENTS FOR WOMEN AND MISSES—NAMELY, VESTS, PANTIES, BRIEFS, BLOOMERS, CHEMISES, BANDEAUX OR BRASSIÈRES, SLIPS, PETTICOATS, LOUNGING ROBES, LOUNGING PAJAMAS, NEGLIGEES, BED JACKETS, NIGHT GOWNS, AND SLEEPING PAJAMAS.
Claims use since June 23, 1948.

Ser. No. 566,860. BUTLER BROTHERS, Chicago, Ill. Filed Oct. 12, 1948. (Sec. 2f.)

Ruth Barry

The name "Ruth Barry" is fanciful. Applicant claims ownership of Registration No. 392,293.
FOR WOMEN'S T SHIRTS, ROBES, APRONS, WOMEN'S LINGERIE—NAMELY, PAJAMAS, SLIPS, PANTIES, NIGHTGOWNS, NEGLIGEES, BRASSIÈRES, FOUNDATION GARMENTS; DRESSES, COATS, SUITS, BLOUSES, PONCHOS, SWEATERS, SWEATER DICKIES, JACKETS, SKIRTS, RAINCOATS, TRENCH COATS, SWIM SUITS, SKI TOGS COMPRISING JACKETS AND PANTS COMBINATION, PLAY SUITS, UNDER SHORTS AND SHIRTS, SLACKS, LADIES' APPAREL BELTS, DUNGAREES; NECKWEAR—NAMELY, COLLARS AND SCARFS, GLOVES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF, WOMEN'S MITTENS MADE OF FABRIC AND LEATHER AND FUR, HATS, AND HOSIERY; CHILDREN'S KNITTED GLOVES AND CHILDREN'S HATS, AND HANDKERCHIEFS.
Claims use since September 1940.

Ser. No. 568,530. PILGRIM FULL FASHION MILLS, INC., Valdese, N. C. Filed Nov. 10, 1948.

Mayflower

FOR LADIES' HOSIERY.
Claims use since Oct. 19, 1948.

Ser. No. 568,856. SALLY MASON, New York, N. Y. Original filed, act of 1946, Supplemental Register, Nov. 16, 1948; amended to application, Principal Register, Sept. 21, 1950.

SALLY-MAE

FOR LADIES', MISSES', AND GIRLS' BLOUSES, HALTERS, JACKETS, PLAYSUITS, AND SLACKS.
Claims use since Apr. 7, 1947.

Ser. No. 574,825. ELTING BROTHERS, INC., New York, N. Y. Filed Mar. 3, 1949.

FOR HOSIERY.
Claims use since Feb. 15, 1949.

Ser. No. 575,346. GOODSTEIN BROS. & CO. INC., New York, N. Y. Filed Mar. 12, 1949.

GOODSHIRE

FOR MEN'S AND BOYS' TOPCOATS AND OVERCOATS.
Claims use since December 1938.

Ser. No. 575,803. R. J. GOERKE CO., Elizabeth, N. J. Filed Mar. 1, 1949.

Edmundton

FOR MEN'S DRESS SHIRTS, SPORT SHIRTS, T-SHIRTS, UNDERWEAR, UNDERWEAR SHORTS AND BOTTOMS, UNDERWEAR SHIRTS AND TOPS, NECK TIES, NIGHT SHIRTS, NIGHT SHORTS, NIGHT HATS, BATHROBES, AND PAJAMAS.
Claims use since Jan. 18, 1949.

Ser. No. 577,625. JOHN J. WALSH, St. Louis, Mo. Filed Apr. 23, 1949.

CASUAL ARCH BY Johnie Walsh

The words "Casual" and "Arch" are disclaimed.
FOR WOMEN'S AND MISSES' SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Nov. 1, 1948.

Ser. No. 578,052. SIMON AND MOGILNER, St. Paul, Minn. Filed Apr. 30, 1949.

The lining is intended to represent black and gold.
FOR INFANTS' AND CHILDREN'S PLAYSUITS, DUNGAREES, BOXER SHORTS, OVERALLS, CRAWL-

ERS, PINAFORES, SLEEPING PAJAMAS AND ONE AND TWO PIECE JACKETS, JACKET SETS, SNOWSUITS AND SUNSUITS, GOWNS, SHIRTS AND BOXER LONGIES.
Claims use since Sept. 1, 1948.

Ser. No. 579,971. NAT J. DUMBROW COMPANY, INC., New York, N. Y. Filed June 4, 1949.

Vera Glamour

FOR LADIES' COATS.
Claims use since June 2, 1949.

Ser. No. 580,052. DONOVAN ENTERPRISES, INCORPORATED, Saugatuck, Conn. Filed June 7, 1949.

Boater

FOR DIAPER COVERINGS.
Claims use since May 5, 1949.

Ser. No. 580,121. H. H. BROWN SHOE CO., INC., Worcester, Mass. Filed June 8, 1949.

King Kong

FOR MEN'S AND BOYS' SHOES.
Claims use since 1925.

Ser. No. 581,826. RAND RUBBER COMPANY, INC., Brooklyn, N. Y. Filed July 12, 1949. (Sec. 2f.)

Rand.

Applicant claims ownership of Registrations Nos. 161,685, 410,105, 410,983, and 411,087.
FOR BABY PANTS, BABY BIBS, APRONS, BATHING CAPS, AND SHOWER CAPS.
Claims use since March 1920.

Ser. No. 582,071. BITTY FROCKS, Philadelphia, Pa. Filed July 16, 1949.

The portrait of the baby is fanciful.
FOR INFANTS' OVERALLS.
Claims use since November 1947.

Ser. No. 583,251. GRACE FEINMAN, New York, N. Y. Filed Aug. 10, 1949.

The person pictured is fanciful. The word "Pajama" is disclaimed.
FOR CHILDREN'S PAJAMAS.
Claims use since Apr. 1, 1949.

Ser. No. 583,291. ROBINSON MANUFACTURING CO., INC., Dayton, Tenn. Filed Aug. 10, 1949.

OCOEE

Applicant claims ownership of Registration No. 183,602.
FOR MEN'S UNDER SHORTS, AND BOYS' COTTON WOVEN UNDERWEAR.
Claims use since February 1920.

Ser. No. 583,526. DONOVAN ENTERPRISES, INCORPORATED, Saugatuck, Conn. Filed Aug. 16, 1949.

Tuk-Boat

FOR DIAPER COVERINGS.
Claims use since May 5, 1949.

Ser. No. 583,692. HILB & CO., INC., Denver, Colo. Filed Aug. 19, 1949.

Aspen

The mark consists of the word "Aspen" associated with a representation of the leaf of the aspen tree. The lining indicates red.
FOR KNITTED OUTER WEAR GARMENTS FOR WOMEN, MISSES, AND GIRLS—NAMELY, SWEATERS OF ALL TYPES, INCLUDING LONG SLEEVED, SHORT SLEEVED, PULLOVER, COAT SWEATERS.
Claims use since May 1, 1949.

Ser. No. 583,947. REAMSTOWN HOSIERY MILLS, INC., Mohnton, Pa. Filed Aug. 24, 1949.

"Feather-Touch Welt"

The word "Welt" is disclaimed.
FOR HOSIERY.
Claims use since Jan. 21, 1949.

Ser. No. 584,402. RUDOLPH KELLERMAN INC., New York, N. Y. Filed Sept. 2, 1949.

Rudoka

FOR NYLON STOCKINGS.
Claims use since May 12, 1949.

Ser. No. 584,405. S. H. KRESS AND COMPANY, New York, N. Y. Filed Sept. 2, 1949.

Romeo

Applicant claims ownership of Registration No. 266,137.
FOR HOSIERY.
Claims use since Mar. 18, 1940.

Ser. No. 584,588. M. K. M. HOSIERY MILLS, INC., Jamaica Plain, Boston, Mass. Filed Sept. 8, 1949.

Portrait Heel

The word "Heel" is disclaimed.
FOR HOSIERY.
Claims use since Aug. 15, 1949.

Ser. No. 585,714. MERRIMAC HAT CORPORATION, New York, N. Y., and Amesbury, Mass. Filed Oct. 3, 1949.

Merrisene

FOR MEN'S, WOMEN'S, AND CHILDREN'S HATS AND HAT BODIES.
Claims use since June 15, 1949.

Ser. No. 586,628. DAVECO, INC., New York, N. Y. Filed Oct. 21, 1949.

Lord Piedmont

The mark is not the name of any individual, so far as applicant is aware.
FOR T-SHIRTS.
Claims use since May 1, 1948.

Ser. No. 588,669. WIMELBACHER & RICE INC., New York, N. Y. Filed Dec. 1, 1949.

NYLOPIC

FOR WOMEN'S GLOVES MADE OF A NOVELTY WEAVE NYLON CLOTH.
Claims use since Nov. 5, 1949.

Ser. No. 588,713. L. SILBERSTON & SONS LIMITED, Cambridge Heath, London, England. Filed Dec. 2, 1949.

Sunny Brow

Applicant claims ownership of United Kingdom of Great Britain and Northern Ireland Registration No. 662,243, dated Sept. 5, 1947.
FOR WOMEN'S HATS.

Ser. No. 588,900. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 6, 1949.

Tru-Point

FOR MEN'S AND BOYS' SHIRTS.
Claims use since Jan. 15, 1935.

Ser. No. 589,263. THE LINBRO MFG. CORP., New York, N. Y. Filed Dec. 13, 1949.

NECKERCHEST

FOR SCARFS.
Claims use since Aug. 15, 1949.

Ser. No. 589,343. THE SHIRTCRAFT COMPANY, INC., New York, N. Y. Filed Dec. 14, 1949.

ZIP-TRU

FOR SHIRTS.
Claims use since Dec. 1, 1949.

Ser. No. 590,035. JOHN SHANNON & SON LIMITED, Walsall, England. Filed Dec. 28, 1949.

AGRIPPAS

Applicant claims ownership of British Registration No. 553,945, dated Sept. 12, 1934.
FOR MEN'S TROUSERS.

Ser. No. 590,045. WHITE SWAN UNIFORMS, INC., New York, N. Y. Filed Dec. 28, 1949.

Swanfold

FOR NURSES' UNIFORMS.
Claims use since Nov. 11, 1949.

Ser. No. 590,492. LEO M. COOPER, doing business as Puritan Uniform Company, New York, N. Y. Filed Jan. 7, 1950.

PURITAN

Applicant claims ownership of Registrations Nos. 164,226, 197,767, 273,289, and 405,347.
FOR NURSES' UNIFORMS AND UNIFORM DRESSES MADE OF ACETATES, NYLON, AND RAYON.
Claims use since January 1922.

Ser. No. 590,499. EMPIRE SHIELD COMPANY, INC., New York, N. Y. Filed Jan. 7, 1950.

EMSCO

FOR BABY PANTS.
Claims use since 1940.

Ser. No. 590,855. MAISON FRANCE, INC., New York, N. Y. Filed Dec. 17, 1949. (Sec. 2f.)

Originals by Maison France

The word "Originals" is disclaimed. Applicant claims ownership of Registration No. 417,783.
FOR LADIES' BLOUSES, DICKEYS, COLLARS, CUFFS, AND JABOTS.
Claims use since 1924.

Ser. No. 590,942. PANDORA KNITWEAR, INC., New York, N. Y. Filed Jan. 16, 1950.

BUTTERSCOTCH

FOR SWEATERS.
Claims use since Dec. 15, 1949.

Ser. No. 590,973. DUCHESS ROYAL, INC., New York, N. Y., assignor to Rain Coquette by Duchess Royal, Inc., New York, N. Y., a corporation of New York. Filed Jan. 17, 1950.

Featherain

FOR MEN'S AND WOMEN'S RAINCOATS.
Claims use since Jan. 5, 1950.

Ser. No. 591,095. LUBIN-WEEKER CO. INC., New York, N. Y. Filed Jan. 19, 1950.

CLUB LOUNGER

FOR MEN'S PAJAMAS.
Claims use since Dec. 7, 1949.

Ser. No. 591,328. TRUVAL MANUFACTURERS, INC., New York, N. Y. Filed Jan. 23, 1950.

TruVal

FAIR FLEX

Applicant claims ownership of Registrations Nos. 96,306, 376,349, and others.
FOR BUSINESS SHIRTS FOR MEN AND YOUNG MEN.
Claims use since August 1938.

Ser. No. 591,421. HAT CORPORATION OF AMERICA, Norwalk, Conn. Filed Jan. 25, 1950.

ALLURE

FOR WOMEN'S HATS.
Claims use since Nov. 23, 1933.

Ser. No. 591,500. MANCHESTER KNITTED FASHIONS, INC., Manchester, N. H. Filed Jan. 26, 1950.

FOR MEN'S, WOMEN'S AND CHILDREN'S KNITTED AND WOVEN OUTERWEAR—NAMELY, T-SHIRTS, SPORT SHIRTS, SLACKS, SUITS, SPORT JACKETS, LOAFER COATS, AND SWEATERS; AND PAJAMAS.
Claims use since Nov. 1, 1949.

Ser. No. 591,507. MARK NEIDER, New York, N. Y. Filed Jan. 26, 1950.

The word "Glove" is disclaimed.
FOR GLOVES AND MITTENS MADE OF LEATHER, KNITTED, OR WOVEN FABRIC OR A COMBINATION THEREOF.
Claims use since Jan. 10, 1950.

Ser. No. 591,517. THE SHIRTCRAFT COMPANY, INC., New York, N. Y. Filed Jan. 26, 1950.

AIRMAN

Applicant claims ownership of Registrations Nos. 273,227 and 404,453.
FOR NEGLIGEE SHIRTS, SPORT SHIRTS, SHORTS, SPORT JACKETS, AND LADIES' JACKETS.
Claims use since Feb. 17, 1930.

Ser. No. 591,561. DAVID D. DEMOSS, doing business under the name and style of Moss Hosiery Company, Burlington, N. C. Filed Jan. 27, 1950.

BONANZA

The drawing is lined for shading purposes only.
FOR WOMEN'S HOSIERY.
Claims use since Sept. 15, 1949.

Ser. No. 591,610. BURMA CRAVATS, LTD., New York, N. Y. Filed Jan. 28, 1950.

South Pacific

FOR NECKTIES.
Claims use since Dec. 1, 1949.

Ser. No. 591,663. R. G. BARRY CORP., Columbus, Ohio. Filed Jan. 30, 1950.

Turbys

FOR BANDANAS OR TURBANS.
Claims use since Jan. 3, 1950.

Ser. No. 591,672. SOL FLETCHER, INC., New York, N. Y. Filed Jan. 30, 1950.

Trimleigh

FOR BOYS' SUITS AND COATS.
Claims use since July 1, 1948.

Ser. No. 591,954. RAIN COQUETTE BY DUCHESS ROYAL, INC., New York, N. Y. Filed Feb. 3, 1950.

THE ROYAL DUKE

FOR RAINCOATS.
Claims use since Jan. 27, 1950.

Ser. No. 592,247. BRIDAL ORIGINALS, St. Louis, Mo. Filed Feb. 10, 1950.

The word "Originals" is disclaimed. The picture of the girl is fanciful.
FOR WOMEN'S AND MISSES' WEDDING GOWNS AND DRESSES FOR FORMAL WEAR.
Claims use since Jan. 1, 1947.

Ser. No. 592,502. JOSEPH LOVE, INC., New York, N. Y. Filed Feb. 15, 1950.

Love

Applicant claims ownership of Registrations Nos. 330,667 and 519,815.
FOR CHILDREN'S DRESSES, BLOUSES AND SKIRTS.
Claims use since May 1920.

Ser. No. 592,643. ALFRED LOMBARDI, doing business as Lyn-Maid Lingerie Company, Lyndhurst, N. J. Filed Feb. 17, 1950.

Lyn-Maid

FOR WOMEN'S AND GIRLS' UNDERWEAR.
Claims use since Oct. 28, 1949.

Ser. No. 593,221. ESSEX RUBBER COMPANY, Trenton, N. J. Filed Mar. 1, 1950.

STEADY

FOR RUBBER SOLES FOR SHOES.
Claims use since Aug. 22, 1928.

Ser. No. 593,229. THE LOVABLE BRASSIERE COMPANY, Atlanta, Ga. Filed Mar. 1, 1950.

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 378,181 and 500,299.
FOR BRASSIÈRES.
Claims use since May 1946.

Ser. No. 593,288. POSEES, INC., Jersey City, N. J. Filed Mar. 2, 1950.

POSEES

Applicant claims ownership of Registration No. 529,572.
FOR BREAST COVERS WHICH CAN BE AFFIXED TO THE BODY BY ADHESIVE MEANS.
Claims use since Jan. 12, 1950.

Ser. No. 593,292. S & H FASHIONS, INC., New York, N. Y. Filed Mar. 2, 1950.

ANSENETTE by ANDERSEN

The word "Andersen" is disclaimed.
FOR LADIES', MISSES', AND GIRLS' DRESSES.
Claims use since Jan. 3, 1950.

Ser. No. 594,006. WECO PRODUCTS COMPANY, Chicago, Ill. Filed Mar. 15, 1950.

Flair net

The word "Net" is disclaimed.
FOR HAIR NETS.
Claims use since Jan. 15, 1950.

Ser. No. 594,364. CORETTE, INC., New York, N. Y. Filed Mar. 22, 1950.

Cova-Bra

The word "Bra" is disclaimed.
FOR SLIPS.
Claims use since Feb. 2, 1950.

Ser. No. 594,423. ALLENDALE GARMENT CO., INC., Allendale, S. C. Filed Mar. 23, 1950.

Carol York

The expression "Carol York" is fanciful.
FOR COTTON DRESSES FOR WOMEN.
Claims use since Feb. 1, 1950.

Ser. No. 594,685. THE ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Original filed, act of 1946, Supplemental Register, Mar. 27, 1950; amended to application, Principal Register, Sept. 20, 1950.

Betty Shaw Teen

The word "Teen" is disclaimed. The name is fanciful.
FOR GIRLS' COATS, SUITS, DRESSES, SWEATERS, BLOUSES, SKIRTS, AND JEANS.
Claims use since February 1949.

Ser. No. 595,355. BRADSTONE RUBBER COMPANY, Woodbine, N. J. Filed Apr. 7, 1950.

HEALTHWAY

The individual shown in the drawing is fanciful.
FOR RUBBER HEELS.
Claims use since January 1928.

Ser. No. 595,762. CLARVAN CORPORATION, Milwaukee, Wis. Filed Apr. 15, 1950.

PLASTIMITTS

FOR MITTENS MADE FROM A PLASTIC FILM.
Claims use since April 1947.

Ser. No. 595,848. NATIONAL MODES, INC., New York, N. Y. Filed Apr. 17, 1950.

Jeanne Barrie

The name "Jeanne Barrie" is fanciful. Applicant claims ownership of Registration No. 335,254.
FOR WOMEN'S OUTER AND UNDER WEARING APPAREL—NAMELY, COATS, SUITS, DRESSES, UNDERWEAR, HOSIERY; NECKWEAR—NAMELY, GILETS, JABOTS, COLLARS, BANDS, AND BOWS; BLOUSES, GLOVES OF LEATHER AND FABRIC, BELTS FOR OUTER WEAR, AND HATS.
Claims use since Apr. 8, 1935.

Ser. No. 595,801. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 18, 1950.

CHEM

CREPE

The word "Crepe" is disclaimed.
FOR HEELS AND SOLES FOR BOOTS AND SHOES.
Claims use since November 1945.

Ser. No. 596,550. THE BEARFOOT SOLE COMPANY, INC., Boston, Mass. Filed Apr. 29, 1950.

AIROLITE

FOR SOLES AND HEELS OF RUBBER OR SYNTHETIC COMPOSITION OR ITS EQUIVALENT FOR BOOTS AND SHOES.
Claims use since May 12, 1948.

Ser. No. 596,551. THE BEARFOOT SOLE COMPANY, INC., Boston, Mass. Filed Apr. 29, 1950.

Arawak

FOR SOLES AND HEELS OF RUBBER OR SYNTHETIC COMPOSITION OR ITS EQUIVALENT FOR BOOTS AND SHOES.
Claims use since Aug. 28, 1939.

Ser. No. 596,552. THE BEARFOOT SOLE COMPANY, INC., Boston, Mass. Filed Apr. 29, 1950.

DUROTEX

FOR SOLES AND HEELS OF RUBBER OR SYNTHETIC COMPOSITION OR ITS EQUIVALENT FOR BOOTS AND SHOES.
Claims use since Feb. 3, 1950.

Ser. No. 596,553. THE BEARFOOT SOLE COMPANY, INC., Boston, Mass. Filed Apr. 29, 1950.

Wearfoot

FOR SOLES AND HEELS OF RUBBER OR SYNTHETIC COMPOSITION OR ITS EQUIVALENT FOR BOOTS AND SHOES.
Claims use since Sept. 17, 1929.

Ser. No. 597,105. SMART MAID COAT CO., INC., New York, N. Y. Filed May 8, 1950.

SU-CHILLA

FOR MISSES' COATS.
Claims use since Mar. 6, 1950.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 582,582. TRIO NOVELTY MANUFACTURING CORPORATION, New York, N. Y. Filed July 27, 1949.

FOAM-ETTES

The word "Foam" is disclaimed.
FOR SHOULDER PADS DESIGNED FOR USE IN WEARING APPAREL.
Claims use since June 17, 1949.

Ser. No. 583,314. C. J. BATES & SON, Chester, Conn. Filed July 12, 1949. (Sec. 2f.)

Zephr

Applicant claims ownership of Registration No. 414,366.
FOR CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE.
Claims use since Jan. 25, 1944.

Ser. No. 591,581. GEORGE STANLEY PASCHKE, Bremerton, Wash. Filed Jan. 27, 1950.

CUPID

FOR ARTIFICIAL FLOWERS IN THE NATURE OF TRIMMINGS.
Claims use since Dec. 28, 1949.

Ser. No. 595,214. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Apr. 4, 1950.

BLUE LABEL

No claim is made to the exclusive use of a label colored blue.
FOR DRESS SHIELDS.
Claims use since 1933.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 592,196. CROSS UMBRELLA FRAMES, INC., Richmond Hill, N. Y. Filed Feb. 9, 1950.

CROSS FRAME Folding UMBRELLA

The words "A," "Frame," "Folding," "Umbrella," and the representation of umbrellas are disclaimed.
FOR UMBRELLAS.
Claims use since May 1, 1949.

Ser. No. 599,160. FINKEL OUTDOOR PRODUCTS, INC., New York, N. Y. Filed June 15, 1950.

RIVIERA

FOR UMBRELLAS.
Claims use since Jan. 1, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 566,186. J. P. STEVENS & CO., INC., New York, N. Y. Filed Sept. 30, 1948.

INDUSTRIAL DENIM

The words "Industrial Denims" are disclaimed. The drawing is lined for the colors green and gold.
FOR DENIM FABRICS.
Claims use since 1921.

Ser. No. 569,665. ARTHUR BEIR & CO., INC., New York, N. Y. Filed Dec. 1, 1948.

STYLAN

FOR TEXTILE PIECE GOODS OF SPUN RAYON.
Claims use since August 1940.

Ser. No. 571,527. HARRY GOLDINGER TEXTILE CORPORATION, Los Angeles, Calif. Filed Jan. 3, 1949.

Kaloa

FOR FABRICS, COMPOSED OF COTTON, WOOL, SILK, AND SYNTHETIC FIBERS, AND COMBINATIONS THEREOF.
Claims use since Sept. 14, 1948.

Ser. No. 572,561. GOODALL-SANFORD, INC., Sanford, Maine. Filed Jan. 22, 1949.

COMET

FOR FABRICS FACED WITH MOHAIR AND BACKED WITH COTTON AND USED FOR UPHOLSTERY.
Claims use since Oct. 15, 1945.

Ser. No. 573,376. LYDIA COTTON MILLS, Clinton, S. C. Filed Feb. 5, 1949.

LYDIA BAILEY

Lydia Bailey, now deceased, is the name of the wife of one of the founders of Lydia Cotton Mills, located at Clinton, S. C.

FOR PIECE GOODS OF RAYON AND COTTON.
Claims use since Jan. 5, 1949.

Ser. No. 579,265. COLONIAL MILLS, INC., New York, N. Y., now by change of name Robbins Mills, Inc., a corporation of New York. Filed May 21, 1949.

Slickcord

FOR PIECE GOODS OF RAYON, NYLON, ACETATE, WOOL, COTTON, AND COMBINATIONS THEREOF.
Claims use since Jan. 7, 1949.

Ser. No. 580,454. RUDOLF BAAR, INC., New York, N. Y. Filed June 15, 1949.

BAARTON Tweed 100% WOOL Fabric by Rudolf Baar

The words "Tweed," "100% Wool," and "Fabric by" are disclaimed.
FOR WOOLEN PIECE GOODS.
Claims use since Apr. 1, 1949.

Ser. No. 580,743. PACIFIC MILLS, New York, N. Y., and Boston, Mass. Filed June 18, 1949.

DRAKES

FOR WOOLEN FABRICS IN THE PIECE.
Claims use since June 9, 1949.

Ser. No. 581,023. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 24, 1949.

CARVEX

FOR TEXTILE RUGS AND CARPETING.
Claims use since Mar. 27, 1946.

Ser. No. 582,064. W. & J. SLOANE, New York, N. Y. Filed July 15, 1949.

The House of Years

FOR BED SPREADS, DRAPERIES, VALANCES, TABLE SKIRTS, WINDOW CURTAINS, SHOWER CURTAINS, TEXTILE CARPETS, WOVEN, BRAIDED AND HOOKED RUGS.
Claims use since Oct. 24, 1933.

Ser. No. 584,607. THE BETHLEHEM SILK COMPANY, New York, N. Y. Filed Sept. 9, 1949.

ROB ROY RIBBONS

The word "Ribbons" is disclaimed.
FOR RIBBONS OF VELVET, TAFFETA, GROSS-GRAIN, MOIRE, RAYON AND SILK AND MIXTURES THEREOF, IN REELS, ROLLS, AND BY THE YARD.
Claims use since Aug. 5, 1949.

Ser. No. 585,014. COAST MANUFACTURING & SUPPLY COMPANY, Livermore, Calif. Filed Sept. 19, 1949.

Trevarno

FOR COATED AND UNCOATED FABRICS OF COTTON, SILK, WOOL, FLAX, JUTE, GLASS, ASBESTOS, AND SYNTHETIC FIBERS.
Claims use since Aug. 31, 1949.

Ser. No. 586,297. MOORESVILLE MILLS, INC., Mooresville, N. C. Filed Oct. 14, 1949.

MONKSRAY

FOR ALL RAYON FABRIC FOR USE BY THE DECORATIVE FABRIC TRADE.
Claims use since Sept. 2, 1949.

Ser. No. 586,697. SIMON MANGES & SON, INC., New York, N. Y. Filed Oct. 22, 1949.

BELVEDERE

FOR TEXTILE CARPETS AND RUGS.
Claims use since June 1, 1945.

Ser. No. 586,698. SIMON MANGES & SON, INC., New York N. Y. Filed Oct. 22, 1949.

Rapallo

FOR TEXTILE CARPETS AND RUGS.
Claims use since June 1, 1949.

Ser. No. 587,006. BARTMANN & BIXER, INC., New York, N. Y. Filed Oct. 29, 1949.

KENNETH

DOUBLE DECKER

Applicant claims ownership of Registrations Nos. 335,522, 368,926, and 390,362.
FOR WINDOW CURTAINS.
Claims use since Oct. 3, 1949.

Ser. No. 587,131. PEDIGREE FABRICS, INC., New York, N. Y. Filed Nov. 1, 1949.

Pediset

Applicant claims ownership of Registrations Nos. 379,483, 403,140, 409,075, 436,218, 442,317, 442,314, 442,327, 442,947, and 400,663.
FOR WOVEN FABRIC OF RAYON OR NYLON OR MIXTURES THEREOF, SOLD BY THE PIECE.
Claims use since June 3, 1949.

Ser. No. 587,240. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 3, 1949.

BOYLESONIAN

Applicant claims ownership of Registrations Nos. 252,778 and 299,630.
FOR AWNING FABRICS—NAMELY, PAINTED AWNING FABRIC AND WOVEN AWNING FABRIC, AND COTTON DUCK IN THE PIECE.
Claims use since Sept. 21, 1928.

Ser. No. 587,921. HARRY ZELLER, INC., New York, N. Y. Filed Nov. 16, 1949.

HARZELL Z

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, WOOL, WORSTED, PROTEIN FIBRES, AND MIXTURES THEREOF.
Claims use since Dec. 5, 1934.

Ser. No. 597,980. SHIRLEY FABRICS CORP., New York, N. Y. Filed May 23, 1950.

LAMALENE

FOR ACETATE AND RAYON FABRICS IN THE PIECE.
Claims use since Mar. 3, 1947.

CLASS 43

THREAD AND YARN

Ser. No. 581,772. THE JAEGER COMPANY LIMITED, London, England. Filed July 11, 1949. (Sec. 2f.)

JAEGER

Applicant claims ownership of Registrations Nos. 69,201, 268,493, and others.
FOR YARNS OF WOOL, CAMELHAIR, CASHMERE, AND ANGORA FIBRES.
Claims use since June 1, 1908; and use in commerce between Great Britain and the United States which may lawfully be regulated by Congress since July 1, 1922.

Ser. No. 594,846. ROBERT J. KNIPE, doing business as Wissahickon Yarn Company, Jenkintown, Pa. Filed Mar. 29, 1950.

WYCO BRAND

The word "Brand" is disclaimed.
FOR NYLON KNITTING YARN.
Claims use since Nov. 11, 1947.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 538,857. BECTON DICKINSON AND COMPANY, East Rutherford, N. J. Filed Oct. 24, 1947.

SUPER-WARD

Applicant claims ownership of Registration No. 415,199.
FOR HYPODERMIC SYRINGES, HYPODERMIC NEEDLES, CLINICAL THERMOMETERS, AND ELASTIC BANDAGES.
Claims use since 1934.

Ser. No. 544,344. HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis., and Rahway, N. J. Filed Dec. 15, 1947. (Sec. 2f.)

STEELTONE

Applicant claims ownership of Registration No. 402,537.
FOR PHYSICIANS' AND SURGEONS' COMBINATION EXAMINING AND TREATMENT CHAIR-TABLES, TREATMENT CABINETS, INSTRUMENT CABINETS, PHYSICIANS' WASTE RECEIVER CABINETS, AND OPERATOR'S STOOLS.
Claims use since Jan. 1, 1937.

Ser. No. 565,080. HENRY G. ROBBINS DENTAL STUDIO, INC., Hollywood, Calif. Filed Sept. 13, 1948.

Feather Cast Chrome
"LIGHT AS A FEATHER"

The words "Chrome," "Cast," and "Light as a Feather" are disclaimed.
FOR PARTIAL DENTURES AND METAL ALLOY USED IN MAKING SAME.
Claims use since July 12, 1948.

Ser. No. 568,151. I. STERN & CO., INC., Mount Vernon, N. Y. Filed Aug. 25, 1948.

ISO

Applicant claims ownership of Registration No. 245,867.
FOR DENTAL CASTING GOLD INGOTS, DENTAL GOLD CLASP WIRE, DENTAL GOLD FOIL, DENTAL

GOLD CYLINDERS, DENTAL GOLD PLATE, DENTAL GOLD SHELLS, DENTAL GOLD DISCS, DENTAL GOLD SOLDERS, DENTAL GOLD LINGUAL BARS, DENTAL GOLD PALATAL BARS, AND GOLD AND SILVER BACKINGS FOR INTERCHANGEABLE TEETH.
Claims use since Jan. 3, 1928.

Ser. No. 589,337. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Dec. 14, 1949.

FLEX-LASTIK

FOR NON-MEDICATED ELASTIC BANDAGES.
Claims use since Sept. 1, 1949.

Ser. No. 592,436. RANDALL FAICHNEY CORPORATION, Jamaica Plain, Boston, Mass. Filed Feb. 14, 1950.

RANFAC

FOR HYPODERMIC NEEDLES AND SYRINGES, AND PARTS THEREOF, FOR USE BY SURGEONS, DOCTORS, DENTISTS, AND VETERINARIANS.
Claims use since 1914.

Ser. No. 595,257. HARRY S. HUGGON, doing business under the business name H. S. Huggon Company, Brockton, Mass. Filed Apr. 5, 1950.

HUG·ON

FOR TAPE FOR USE BY EMBALMERS FOR THE PURPOSE OF BINDING OR HOLDING IN PLACE PORTIONS OF THE HUMAN BODY IN CONNECTION WITH EMBALMING.
Claims use since 1930.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 572,971. LEWIS CARL GREISER, Cincinnati, Ohio. Filed Jan. 28, 1949.

HI-Top

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME.
Claims use since June 1, 1946.

Ser. No. 596,675. O-So GRAPE CO., Chicago, Ill. Filed May 1, 1950.

DEHYDRA

FOR LIQUID CONCENTRATE AND POWDER FOR MAKING SOFT DRINKS.
Claims use since Feb. 15, 1950.

Ser. No. 596,720. DOUBLE EAGLE BOTTLING CO., Cleveland, Ohio. Filed May 2, 1950.

D-e-b

FOR GINGER BEER.
Claims use since Nov. 19, 1949.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 532,754. RICHARDSON CORPORATION, Rochester, N. Y. Filed Aug. 28, 1947. (Sec. 2f.)

RICHARDSON

FOR CRUSHED AND WHOLE FRUITS AND NUTS USED IN MAKING SHERBETS, ICES, AND ICE CREAM; FRUIT, NUT, MARSHMALLOW, FUDGE, BUTTERSCOTCH, AND CARAMEL TOPPINGS, FLAVORS, AND IMITATION FLAVORS USED IN MAKING SUNDAES AND ICE CREAM; FLAVORING EXTRACTS, FLAVORING SYRUPS, AND IMITATION FLAVORING EXTRACTS USED IN MAKING SUNDAES AND ICE CREAM; CHOCOLATE FLAVORED PASTE AND SYRUP FOR FOOD PURPOSES; FRUIT AND CHOCOLATE FLAVORED SAUCES AND POWDERS FOR FOOD PURPOSES; CHOCOLATE FLAVORED DAIRY DRINK; BITTERSWEET FUDGE SYRUP, COCOA POWDER, AND COCOA PASTE FOR FOOD PURPOSES; MARSHMALLOW, FLAVORING EMULSIONS AND THICKENING POWDER USED IN MAKING ICE CREAM; AND SHERBET BASES.
Claims use since June 9, 1916.

Ser. No. 533,834. ARMOUR AND COMPANY, Chicago, Ill. Filed Sept. 9, 1947. (Sec. 2f.)

Butter-ettes

The word "Butter" is disclaimed.
FOR BUTTER.
Claims use since 1938.

Ser. No. 534,149. KEERDIJK PRODUCTEN MAATSCHAPPIJ C. V., doing business under the trade name and style of Keerdijk Trading Co., Amsterdam, Netherlands. Filed Sept. 11, 1947.

SUNPEARL

Applicant claims ownership of Dutch Registration No. 77,811, dated June 4, 1942.
FOR FRESH DECIDUOUS AND CITRUS FRUITS, CANNED, FROZEN DECIDUOUS AND CITRUS FRUITS, AND DRIED FRUITS.

Ser. No. 540,419. THE IRVINE CITRUS ASSOCIATION, Santa Ana Calif. Filed Nov. 7, 1947.

Silver Peak

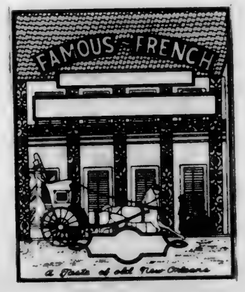
FOR FRESH CITRUS FRUITS.
Claims use since 1920.

Ser. No. 542,329. THE MISSISSIPPI VALLEY CANNING CO., Osceola, Ark. Filed Nov. 25, 1947.

LITTLE ANDY

FOR CANNED FIELD PEAS, CANNED SIFTED PEAS, CANNED TURNIP GREENS, CANNED MUSTARD GREENS, CANNED KALE, CANNED SPINACH, AND CANNED LIMA BEANS.
Claims use since May 4, 1938.

Ser. No. 546,843. FAMOUS FRENCH, Shreveport, La. Filed Jan. 13, 1948.



The words "Famous-French" and "A Taste of Old New Orleans" are disclaimed.
FOR SALAD DRESSING AND REMOULADE SAUCE.
Claims use since Oct. 1, 1947.

Ser. No. 548,888. VITA FOOD PRODUCTS, INC., New York, N. Y. Filed Feb. 5, 1948. (Sec. 2f.)

Applicant claims ownership of Registration No. 244,152.
FOR CAVIAR IN TINS AND JARS.
Claims use since December 1922.

Ser. No. 551,708. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, New York, N. Y. Filed Mar. 11, 1948.

SULTANA

Applicant claims ownership of Registrations Nos. 62,927, 87,622, 160,510, 267,531, 279,558, 500,975, and 500,976.
FOR SPICES—NAMELY, ALLSPICE, PEPPER AND CINNAMON; CANNED CORN; CANNED BEANS WITH PORK; CANNED PEARS; CANNED PINEAPPLE; CANNED PRUNE PLUMS; CANE AND MAPLE SYRUP; HONEY; AND CANNED RED BEANS IN CHILI GRAVY.
Claims use since January 1870.

Ser. No. 557,508. DELLWOOD DAIRY CO., INC., Yonkers, N. Y. Filed May 21, 1948.

Morrisania

Applicant claims ownership of Registration No. 322,498.
FOR FRESH MILK, FRESH CREAM—LIGHT, HEAVY-SOUR, BUTTERMILK, CHOCOLATE FLAVORED MILK, POT CHEESE AND CREAMED COTTAGE CHEESE.
Claims use since Aug. 14, 1934.

Ser. No. 557,620. MOTHER'S FOOD PRODUCTS, INC., Newark, N. J. Filed May 22, 1948.

The words "Old Fashioned Gefilte Fish" are disclaimed. The background is lined for red in alternating light and dark squares on a white background in a two tone red gingham design. The word "Mother's" is in white and is on a blue circle. The words "Old Fashioned," the border of the circle surrounding them, and the bottom rectangular area are lined for blue. The words "Gefilte Fish" are lined for red. In the background, the darker red squares are represented by the stippled area of the background overlying the lined area, while the unstippled lined area represents the lighter red squares.
FOR GEFILTE FISH.
Claims use since Dec. 20, 1946.

Ser. No. 561,223. E. J. BRACH & SONS, Chicago, Ill. Filed July 13, 1950. (Sec. 2f as to "Brach's.")

Brach's ROYAL ANNE

The words "Royal Anne" are disclaimed. Applicant claims ownership of Registrations Nos. 214,857, 295,860, 396,511, 516,342, and 522,183.
FOR CANDY.
Claims use since 1904 as to "Brach's"; and since Aug. 4, 1935, as shown.

Ser. No. 563,231. ABILENE ALFALFA SALES COMPANY, Abilene, Kans. Filed Aug. 12, 1948.

PASTURETTES

"Pasture in the Bag"

The words "Pasture in the Bag" are disclaimed.
FOR STOCK FEED CONSISTING OF DEHYDRATED ALFALFA MEAL.
Claims use since June 15, 1948.

Ser. No. 567,130. BEWLEY MILLS, Fort Worth, Tex. Filed Oct. 18, 1948.

Top Anchor

Applicant claims ownership of Registration No. 343,656.
FOR STOCK AND POULTRY FEEDS, THE PRINCIPAL INGREDIENTS OF WHICH ARE CEREAL GRAINS, PROTEINS OF BOTH ANIMAL AND VEGETABLE SOURCE, AND MINERALS.
Claims use since Apr. 19, 1948, as to the mark shown; and since Apr. 1, 1882, as to the word "Anchor" and the representation of an anchor.

Ser. No. 575,071. AL H. MEYER, doing business as Al H. Meyer Co., Monterey, Calif. Filed Mar. 8, 1949.

SEA SIREN

No claim is made to the word "Sea."
FOR CANNED FISH.
Claims use since Jan. 20, 1949.

Ser. No. 575,165. THE SHOTWELL MFG. CO., Chicago, Ill. Filed Mar. 9, 1949.

Puritan

The representation of marshmallows is disclaimed. Applicant claims ownership of Registrations Nos. 266,825 and 268,418.
FOR MARSHMALLOWS.
Claims use since Feb. 23, 1949.

Ser. No. 579,720. JOSEPH P. STOCKER, doing business as King David Feed Company, Omaha, Nebr. Filed May 28, 1949.

KING DAVID

FOR POULTRY AND FARM ANIMAL FEEDS, CONSISTING OF LINSEED OILMEAL, SOYBEAN OILMEAL, MEAT SCRAPS, DEHYDRATED ALFALFA MEAL, SALT, GROUND LIMESTONE, STEAMED BONE MEAL, DEFLUORINATED PHOSPHATE, AND MINERALS AND VITAMINS.
Claims use since May 3, 1949.

Ser. No. 580,168. SPRATT'S PATENT (AMERICA) LIMITED, London, England, and Newark, N. J. Filed May 21, 1949.

BONIO

FOR DOG BISCUITS.
Claims use since May 9, 1949.

Ser. No. 582,581. ROY H. SPRADLIN, Lakeworth, Fla. Filed July 27, 1949.

CHOCONANA

FOR FROSTED, CHOCOLATE-COVERED BANANAS ON A STICK.
Claims use since June 1, 1949.

Ser. No. 583,981. PAUL F. BEICH CO., Bloomington, Ill. Filed Aug. 25, 1949.

BUZZ

FOR CANDY.
Claims use since June 15, 1949.

Ser. No. 584,157. SHEWACH BROTHERS, Detroit, Mich. Filed Aug. 27, 1949.

ENJOY

FOR CANNED FRUITS, CANNED VEGETABLES, FRUIT COCKTAIL, CANNED TOMATO JUICE, CANNED FRUIT JUICES, CANNED SOUPS, PORK AND BEANS, PREPARED SPAGHETTI, TOMATO PUREE, PICKLE RELISH, PICKLES, SALAD DRESSING, TOMATO CATSUP, VINEGAR, FRUIT PRESERVES, JELLIES, AND GRAPE JAM.
Claims use since October 1937.

Ser. No. 586,666. TAYLOR & SLEDD, INC., Richmond, Va. Filed Oct. 21, 1949.

Powhatan

The portrait is fanciful. "Powhatan" is the name of a famous Indian chief connected with the history of the settlement of Jamestown, Va. Applicant claims ownership of Registrations Nos. 220,939 and 508,210.
FOR CANNED VEGETABLES AND CANNED APPLE SAUCE.
Claims use since June 22, 1949, as to the mark shown; and since 1890 as to the word Powhatan.

Ser. No. 586,740. DI GIORGIO FRUIT CORPORATION, San Francisco, Calif. Filed Oct. 24, 1949. (Sec. 2f.)

Di Giorgio

Applicant claims ownership of Registrations Nos. 306,015, 420,920, and others.
FOR FRESH ASPARAGUS, FRESH POTATOES, FRESH GRAPES, FRESH PEARS AND FRESH PLUMS.
Claims use since 1943.

Ser. No. 587,432. EL CHICO CAFE, Dallas, Tex. Filed Nov. 7, 1949.

El Chico

The portrait is purely fanciful. The words "Mexican Food" are disclaimed. The lines are for the purpose of shading only. The words "El Chico" translated in English mean "little one" or "small one."
FOR ENCHILADA SAUCE AND HOT SAUCE.
Claims use since Jan. 1, 1940.

Ser. No. 587,533. CHARLESTON MILLING COMPANY, Charleston, W. Va. Filed Nov. 9, 1949.

The words "The Smile of Feed Wisdom" are disclaimed. The representation of the Scotchman's head is fanciful.
FOR FEED FOR LIVE STOCK—NAMELY, HORSES, MULES, COWS, PIGS, AND POULTRY.
Claims use since June 1948.

Ser. No. 587,814. NETLEE PACKING COMPANY, Chicago, Ill. Filed Nov. 15, 1949.

FAM-LEE

FOR POTTED MEAT AND VIENNA SAUSAGE.
Claims use since Aug. 15, 1949.

Ser. No. 588,710. SAN DIEGO PACKING CO., San Diego, Calif. Filed Dec. 2, 1949.

Sea-Licious

The word "Sea" is disclaimed.
FOR CANNED TUNA.
Claims use since Nov. 8, 1949.

Ser. No. 588,882. PAN AMERICAN CANDY COMPANY, INC., Ashley, Ill. Filed Dec. 6, 1949.

GREYHOUND

FOR CANDY BARS.
Claims use since Aug. 1, 1949.

Ser. No. 590,727. NATHAN ABRAMOWITZ, Brooklyn, N. Y. Filed Jan. 12, 1950.

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FOR FOOD FOR TROPICAL FISH.
Claims use since Sept. 22, 1949.

Ser. No. 590,764. SOUTHERN BISCUIT COMPANY, INCORPORATED, Richmond, Va. Filed Jan. 12, 1950.

FFV

Applicant claims ownership of Registrations Nos. 220,142, 331,342, 337,156, 341,695, 344,886, 359,795, and 424,844.
FOR COOKIES AND CRACKERS.
Claims use since November 1925.

Ser. No. 590,791. T. APKARIAN & SONS, Reedley, Calif. Filed Jan. 13, 1950.

Domingo

FOR FRESH DECIDUOUS FRUITS, FRESH GRAPES AND FRESH VEGETABLES.
Claims use since October 1947.

Ser. No. 591,633. MIAMI SEA FOOD COMPANY, Miami, Fla. Filed Jan. 28, 1950.

"SEA-LICIOUS"

The word "Sea" is disclaimed.
FOR FROZEN FRESH FISH, SHRIMP, OYSTERS, LOBSTER, CRABMEAT AND SCALLOPS.
Claims use since Nov. 15, 1949.

Ser. No. 593,082. PILLSBURY MILLS, INC., Minneapolis, Minn. Filed Feb. 25, 1950.

HI-MI-TY

FOR WHEAT FLOUR.
Claims use since June 15, 1931.

CLASS 48
MALT BEVERAGES AND LIQUORS

Ser. No. 518,959. LOEWER'S BREWERY COMPANY, New York, N. Y. Original filed, act of 1905, Mar. 13, 1947; amended to application under act of 1946, Principal Register, July 18, 1950.

The lining on the drawing represents the color blue. The clause "Quality Triumphs" is disclaimed.
FOR MALT BEVERAGES—NAMELY, BEER, ALE, PORTER, AND HALF AND HALF.
Claims use since Feb. 13, 1947.

Ser. No. 574,832. THE GENESEE BREWING CO., INC., Rochester, N. Y. Filed Mar. 3, 1949. (Sec. 2f.)

GENESEE

Applicant claims ownership of Registrations Nos. 312,356, 314,280, 316,122, 317,540, 320,664, and 325,087.
FOR BEER AND ALE.
Claims use since Apr. 1, 1933.

CLASS 49
DISTILLED ALCOHOLIC LIQUORS

Ser. No. 545,239. HENRY KELLY IMPORTING & DISTRIBUTING CO. INC., New York, N. Y. Filed Dec. 23, 1947. (Sec. 2f.)

SHELBY'S

Applicant claims ownership of Registration No. 378,683.
FOR WHISKEY.
Claims use since Apr. 20, 1939.

CLASS 50
MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 544,315. AUTOMATIC DEVICES, INC., St. Louis, Mo. Filed Dec. 15, 1947.

FOR SCAFFOLDS, ROLLER UNITS COMPRISING A FRAME AND CYLINDRICAL ROLLER MOUNTED THEREON, AND ROLLER STANDS FOR REELS WHICH WILL PERMIT FREE ROLLING OF REELS TO REMOVE WIRE, ROPE, CABLE, ETC., THEREFROM.
Claims use since Jan. 15, 1946.

Ser. No. 559,523. MAGNESIUM PRODUCTS CORPORATION, New York, N. Y. Filed June 17, 1948.

MagneX

FOR LADDERS—NAMELY, STEP-LADDERS, EXTENSION LADDERS, PLATFORM LADDERS, LADDERS WITH CASTERS EITHER AT THE TOP OR BOTTOM OR BOTH, AND LADDERS WHICH HAVE A FLAT TOP PORTION ADAPTED AS A SEAT AND MANUALLY OPERABLE COLLAPSIBLE SECTIONS ADAPTED AS A FURTHER STEP OR SEAT, EXTENSION TRESTLES, STAGING AND CHAIR-LADDERS MADE OF METAL, ESPECIALLY MAGNESIUM.
Claims use since Sept. 6, 1947.

CLASS 51
COSMETICS AND TOILET PREPARATIONS

Ser. No. 554,568. J. L. HOPKINS & CO., New York, N. Y. Filed Apr. 14, 1948.

The word "Brand" and the corporate name "J. L. Hopkins & Co." are disclaimed. Applicant claims ownership of Registration No. 248,339.
FOR RAW GROUND HENNA IN POWDERED FORM USED TO TINT THE HAIR VARIOUS COLORS.
Claims use since 1918.

Ser. No. 560,966. CALAVO GROWERS OF CALIFORNIA, Los Angeles, Calif. Filed July 9, 1948.

CALAVO

FOR AVACADO OIL USED IN THE PREPARATION OF COSMETICS, PERFUMES, ROUGES, AND LIPSTICKS.
Claims use since Feb. 25, 1937.

Ser. No. 570,209. KATZ DRUG COMPANY, Kansas City, Mo. Filed Dec. 8, 1948. (Sec. 2f.)

Katz

Applicant claims ownership of Registration No. 317,146.
FOR TINCTURE OF GREEN SOAP; BORIC ACID CRYSTALS AND POWDER, OXALIC ACID, SALICYLIC ACID, TANNIC ACID, TARTARIC ACID, POWDERED ALUM, LUMP ALUM, BLUE VITRIOL, CALOMEL POWDER, COMPOUND LICORICE POWDER, COPPERAS CRYSTAL, CREAM OF TARTAR, FLAKE WHITE, FLAXSEED MEAL, LEAD SUGAR, LEAVES HENNA POWDER, MOTH BALLS, POTASSIUM PERMANGANATE, NAPHTHALENE FLAKES, POWDERED ROSIN, EPSOM SALTS, SALT PETRE, ROCHELLE SALT, SODIUM FLUORIDE, SULPHUR, ZINC OXIDE POWDER, ZINC SULPHATE, CARBOLIC ACID, CRUDE CARBOLIC ACID, MURIATIC ACID, WOOD ALCOHOL, AMMONIA WATER, BED BUG POISON, ESSENCE PEPPERMINT, FORMALDEHYDE, GLYCERINE, CASTOR OIL, CAMPHORATED OIL, OIL CITRONELLA, OIL EUCALYPTUS, OIL WINTERGREEN SYNTHETIC, ROSE WATER, BENZOIN COMPOUND, WATER GLASS, LACTIC ACID, COD LIVER OIL; BORIC ACID SOLUTION, AROMATIC SPIRITS AMMONIA, CASCARA AROMATIC, CHLOROFORM LINIMENT, LIME WATER, MEDICINAL MINERAL OIL, PAREGORIC, DOBELL'S SOLUTION, SPIRITS CAMPHOR, SWEET SPIRIT NITRE, TINCTURE IODINE, RUBBING ALCOHOL, MILK OF MAGNESIA, ASPIRIN; BAY RUM, EXTRACT WITCH HAZEL, GLYCERINE AND BAY RUM, GLYCERINE AND ROSE WATER, GLYCERINE WITH BAY RUM AND ROSE WATER.
Claims use since Sept. 5, 1928.

Ser. No. 573,561. LOUIS NAPOLITAN, doing business as Lory Co., New York, N. Y. Filed Feb. 9, 1949.

trill

FOR TEMPORARY WRINKLE REMOVER.
Claims use since Jan. 26, 1949.

Ser. No. 574,716. THE MAY DEPARTMENT STORES COMPANY, doing business under the name of Kaufmann Department Stores, St. Louis, Mo., and Pittsburgh, Pa. Filed Mar. 1, 1949.

Vivian Shaw

The name "Vivian Shaw" is fanciful. Applicant claims ownership of Registration No. 300,822.
FOR FACE AND HAND CREAMS, FACE AND HAND LOTIONS, SKIN FRESHENER AND TONIC, MUD PACK, ASTRINGENT LOTION, ROUGE, FACE POWDER, POWDER FOUNDATION, LIPSTICK, EYE-SHADOW, EYE FRESHENER, MUSCLE OIL, MASSAGE OIL, BRILLIANTINE, SUNTAN OIL, SUNTAN LOTION, AND BODY DEODORANT.
Claims use since Oct. 30, 1931.

Ser. No. 575,142. MERLIN A. HARTLETT, doing business as M. Hartlett Co., Woodstock, Ill. Filed Mar. 9, 1949.

quell

FOR DEODORANT AND NON-PERSPIRANT FOR PERSONAL USE.
Claims use since Dec. 13, 1938.

Ser. No. 583,346. KĒP COMPANY, INC., Houston, Tex. Filed Aug. 11 1949.

kēp

FOR COMPOUND FOR CLEANING TEETH.
Claims use since May 12, 1949.

Ser. No. 584,969. CARTER PRODUCTS, INC., New York, N. Y. Filed Sept. 17, 1949.

RISE

FOR FLUID PRODUCT FOR USE IN SHAVING AND AS A BEARD SOFTENER.
Claims use since Sept. 14, 1949.

Ser. No. 586,239. EXELENTO MEDICINE COMPANY, Atlanta, Ga. Filed Oct. 13, 1949.

eXelento

Applicant claims ownership of Registration No. 92,058.
FOR HAIR POMADE, PRESSING OIL FOR THE HAIR, CREAM DEODORANT, AND BLEACH CREAM.
Claims use since Nov. 11, 1912.

Ser. No. 588,382. PARFUMS BLANCHARD, New York, N. Y. Filed Nov. 26, 1949.

CLIMAX

FOR TOILET WATER, COLOGNE, PERFUME, BATH POWDER, SACHET AND FACE CREAM.
Claims use since Nov. 7, 1949.

Ser. No. 589,490. STELLA R. WISE, New York, N. Y. Filed Dec. 16, 1949.

ARC BLEU

FOR PERFUMES, COLOGNES, AND TOILET WATER.
Claims use since Nov. 12, 1948.

Ser. No. 591,048. ROLLS RAZOR, INC., New York, N. Y. Filed Jan. 18, 1950.

Applicant claims ownership of Registration No. 338,674.
FOR SHAVING SOAP.
Claims use since June 1, 1928.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 531,659. GARRATT-CALLAHAN CO. OF ILLINOIS, Chicago, Ill. Filed Aug. 18, 1947. CONCURRENT USE with Reg. No. 386,003 for the area comprising that part of Texas east of a line drawn north and south through the city of Abilene, Tex., and all of the States of Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, New Jersey, New Hampshire, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin and the Virgin Islands, Puerto Rico, and the Canal Zone.

CARBI

FOR SOOT AND CARBON SCALE REMOVING CHEMICAL PREPARATION.
Claims use since June 16, 1937.

Ser. No. 531,660. GARRATT-CALLAHAN CO. OF ILLINOIS, Chicago, Ill. Filed Aug. 18, 1947. CONCURRENT USE with Reg. No. 60,793 for the area comprising that part of Texas east of a line drawn north and south through the city of Abilene, Tex., and all of the States of Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, New Jersey, New Hampshire, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin and the Virgin Islands, Puerto Rico, and the Canal Zone.

FOR BOILER CLEANING COMPOUNDS.
Claims use since Mar. 1, 1906.

Ser. No. 531,661. GARRATT-CALLAHAN CO. OF ILLINOIS, Chicago, Ill. Filed Aug. 18, 1947. CONCURRENT USE with Reg. No. 201,615 for the area, comprising that part of Texas east of a line drawn north and south through the city of Abilene, Tex., and all of the States of Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, New Jersey, New Hampshire, New York, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin and the Virgin Islands, Puerto Rico, and the Canal Zone.

Fluff-Joe

FOR RUST ERADICATOR PREPARATION USED FOR HOT-WATER-CIRCULATING SYSTEMS OR ANY METAL UNITS IN WHICH WATER IS CONFINED, AND INCLUDING AUTOMOBILE RADIATORS AND DEVICES OF LIKE CHARACTER FOR PREVENTING FORMATION OF FLUFF, SCALE OR RUST AND THE REMOVAL THEREOF.
Claims use since Jan. 1, 1910.

Ser. No. 558,350. THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed June 3, 1948.

BROWN BEAR

FOR SOAP USED PRIMARILY FOR DISHWASHING.
Claims use since Feb. 15, 1927.

Ser. No. 598,437. SONA PRODUCTS CORPORATION, Chicago, Ill. Filed June 1, 1950.

SO-N-SO

FOR CLEANING PREPARATION HAVING GENERAL UTILITY.
Claims use since Feb. 24, 1950.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 588,978. TUBULAR SERVICE & ENGINEERING COMPANY, Houston, Tex. Filed Dec. 7, 1949.

SONOSCOPE

FOR NON-DESCTRUCTIVE MAGNETIC TESTING OF METALS PARTICULARLY OF DRILL PIPE, CASING, AND TUBING FOR WELLS FOR THE DETECTION OF FLAWS THEREIN.
Claims use since Oct. 1, 1949.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 529,643. THE HERCULES COMPANY, Jersey City, N. J. Filed July 26, 1947.

The words "We Can Do It" and the representation of a boat are disclaimed. The smokestack and a portion of the ship are lined for the color red, the rest of the lining is for shading only.
FOR GENERAL SHIP MAINTENANCE—NAMELY, SHIP REPAIRING, SHIP PAINTING, AND MARINE RIGGING.
Claims use since Jan. 1, 1942.

Ser. No. 576,302. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y. Filed Mar. 30, 1949.

ALFCO

Applicant claims ownership of Registrations Nos. 122,769, 123,079, 123,080, 123,081, and 123,774.
FOR ENGINEERING SERVICE AGAINST FIRE, COMPRISING INSPECTION AND MAINTENANCE OF EQUIPMENT AND INSTALLATIONS FOR PROTECTION AGAINST FIRE.
Claims use since October 1946.

Ser. No. 576,303. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y. Filed Mar. 30, 1949.

Applicant claims ownership of Registrations Nos. 122,769, 123,079, and others.
FOR ENGINEERING SERVICE AGAINST FIRE, COMPRISING INSPECTION AND MAINTENANCE OF EQUIPMENT AND INSTALLATIONS FOR PROTECTION AGAINST FIRE.
Claims use since October 1946.

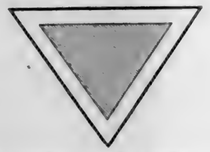
Ser. No. 576,304. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y. Filed Mar. 30, 1949.

The lining in the drawing represents lining in the mark. Applicant claims ownership of Registrations Nos. 132,284 and 134,567.
FOR ENGINEERING SERVICE AGAINST FIRE, COMPRISING INSPECTION AND MAINTENANCE OF EQUIPMENT AND INSTALLATIONS FOR PROTECTION AGAINST FIRE.
Claims use since October 1946.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 517,001. H. R. RITTER TRUCKING COMPANY, Belleville and Paramus, N. J. Original filed, act of 1905, Feb. 5, 1947; amended to application under act of 1946, Principal Register, Sept. 23, 1947.



The drawing is lined to indicate green.

FOR TRANSPORTATION OF INDUSTRIAL OIL, FUEL OIL, CHEMICALS, AND SOLVENTS BY TANK TRUCKS.

Claims use since Jan. 24, 1947.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 585,694. AGRICULTURAL BROADCASTING COMPANY, Chicago, Ill. Filed Oct. 3, 1949.

NATIONAL BARN DANCE

The words "Barn Dance" are disclaimed.

FOR VOCAL AND INSTRUMENTAL MUSICAL ENTERTAINMENT SERVICES PRESENTED THROUGH THE MEDIUM OF RADIO AND TELEVISION BROADCASTS, MOTION PICTURES WITH SOUND, AND PERSONAL APPEARANCE PERFORMANCES.

Claims use since April 1924.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,337. ELECTRICAL ADVERTISING SIGNS FOR CREATING LUMINESCENT ADVERTISING EFFECTS WITH ULTRAVIOLET LIGHT. RHODE ISLAND LABORATORIES, INC., West Warwick, R. I.
Filed Nov. 16, 1945, Serial No. 491,729. Published Aug. 29, 1950. Class 21.

444,338. CHENILLE BEDSPREADS, BATH MATS, BLANKETS, SHEETS, AND PILLOW CASES. BELL TEXTILE COMPANY, INC., New York, N. Y.
Filed Oct. 16, 1946, Serial No. 510,931. Published Aug. 29, 1950. Class 42.

444,339. MOTION PICTURE FILM. CELLULOID COLLEGE, Mount Vernon, N. Y.
Filed Nov. 7, 1946, Serial No. 512,155. Published Sept. 5, 1950. Class 26.

444,340. MECHANICAL BOOK MARKS. PARK SHERMAN CO., INC., Chicago, Ill.
Filed Nov. 15, 1946, Serial No. 512,693. Published May 16, 1950. Class 37.

444,341. TOILET SOAP. SOAP CRAFT, INC., Chicago, Ill.
Filed Dec. 13, 1946, Serial No. 514,226. Published Aug. 29, 1950. Class 52.

444,342. BIOCHEMICALS, HORMONES, AND VITAMINS, ETC. MEYER CHEMICAL COMPANY, Detroit, Mich.
Filed Feb. 26, 1947, Serial No. 518,160. Published Aug. 29, 1950. Class 18.

444,343. RADIO RECEIVING SETS AND ELECTRICAL PHONOGRAPHS. THE WILCOX-GAY CORPORATION, Charlotte, Mich.
Filed June 14, 1947, Serial No. 524,224. Published June 13, 1948. Class 21.

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533,838. CANNED FISH, CLAM CHOWDER, FISH CHOWDER, CLAM STEW, CANNED MUSSELS, MINCED CLAMS, CLAM CAKES, AND WELSH RAREBIT. THE F. H. SNOW CANNING CO., INC., Old Orchard Beach, Maine.
Original filed, act of 1905, Mar. 22, 1946; amended to application under act of 1946, Principal Register, Oct. 6, 1947. Serial No. 498,807. Published June 6, 1950. Class 46.

533,839. SKIN OIL, ASTRINGENT SKIN LOTION, ASTRINGENT SKIN CREAM OIL, PERSONAL DEODORANT, ETC. HELENA RUBINSTEIN, INC., New York, N. Y.
Original filed, act of 1905, Dec. 21, 1946; amended to application under act of 1946, Principal Register, Aug. 5, 1948, Serial No. 514,670. Published Aug. 29, 1950. Class 51.

533,840. HAND SHOVELS, SCOOPS, AND SPADES. MAGOR CAR CORPORATION, New York, N. Y., and Passaic, N. J.
Original filed, act of 1905, Mar. 31, 1947; amended to application under act of 1946, Principal Register, May 19, 1950, Serial No. 519,887. Published Aug. 1, 1950. Class 23.

533,841. PENETRATING LIQUID HAVING NORMALLY SOLID SEALING MATERIAL DISSOLVED IN A VOLATILE SOLVENT FOR APPLICATION TO TERRAZZO AND MAGNESITE SURFACES. HIGLEY CHEMICAL COMPANY, Dubuque, Iowa.
Original filed, act of 1905, Apr. 2, 1947; amended to application under act of 1946, Principal Register, Dec. 4, 1948, Serial No. 520,033. Published June 21, 1949. Class 16.

533,842. COMMERCIAL FEEDS, FOR LIVE STOCK, RABBITS AND POULTRY, ETC. SCHULTZ, BAUJAN & CO., Beardstown, Ill.
Original filed, act of 1905, Apr. 17, 1947; amended to application under act of 1946, Principal Register, Apr. 3, 1948, Serial No. 520,905. Published July 18, 1950. Class 46.

533,843. WOOLEN PIECE GOODS. WAWAK COMPANY, INC., Chicago, Ill.
Original filed, act of 1905, June 19, 1947; amended to application under act of 1946, Principal Register, Jan. 8, 1949, Serial No. 524,501. Published Aug. 29, 1950. Class 42.

533,844. CONSOLIDATED CERTIFICATE. MALLINCKRODT CHEMICAL WORKS, St. Louis, Mo.
ACETALDEHYDE, ACETAMIDE, ACETANILID, ACETIC ANHYDRIDE, ACETOACETIC ESTER, ACETONE, ACETOPHENETIDIN, ACID ACETIC, ETC. Filed July 5, 1947, Serial No. 526,920. Published Feb. 22, 1949. Class 6.
WOOD'S METAL USED, FOR EXAMPLE, IN MECHANISMS FOR FIRE PROTECTION, SUCH AS SPRINKLER SYSTEMS, AND IN LABORATORIES FOR HEATING BATHS. Filed Nov. 12, 1948, Serial No. 568,648. Published July 11, 1950. Class 14.
FLATTING AGENT USED AS AN INGREDIENT OF PAINTS, VARNISHES, AND LACQUERS. Filed Nov. 12, 1948, Serial No. 568,647. Published Aug. 22, 1950. Class 16.

533,845. FERROUS METAL PIPE AND FERROUS METAL PIPE FITTINGS; FERROUS METAL CONDUITS FOR CONVEYING LIQUIDS AND GASES AND FERROUS METAL CONDUIT FITTINGS AND PARTS. ARMCO STEEL CORPORATION, Middletown, Ohio, now by change of name from The American Rolling Mill Company.
Filed July 5, 1947, Serial No. 527,738. Published July 11, 1950. Class 13.

533,846. PORCH AND DECK PAINT, READY FOR USE. MINNESOTA LINSEED OIL PAINT CO., doing business as The Chi-Namel Paint and Varnish Co., Minneapolis, Minn., now by change of name Minnesota Paints, Inc.
Filed July 5, 1947, Serial No. 527,955. Published Aug. 22, 1950. Class 16.

533,847. LIQUID WATER REPELLENT THAT PENETRATES INTO MASONRY, CEMENT BLOCKS, CONCRETE, BRICK, AND TILE, GIVING PROTECTION AGAINST MOISTURE AND WATER. PROTECTION PRODUCTS MANUFACTURING CO., Kalamazoo, Mich.
Filed Aug. 5, 1947, Serial No. 530,565. Published Aug. 15, 1950. Class 12.

533,848. HOSIERY. WAYNE KNITTING MILLS, Fort Wayne, Ind.
Filed Aug. 13, 1947, Serial No. 531,264. Published Aug. 29, 1950. Class 39.

533,849. ELECTRICAL APPARATUS FOR TELEGRAPHING AND PROJECTING CODE SIGNALS BY MEANS OF AN ELECTRIC LIGHT BULB AND BUZZER. M. M. FLERON & SON, INC., Trenton, N. J.
Filed Aug. 20, 1947, Serial No. 531,902. Published Aug. 22, 1950. Class 21.

533,850. METAL POLISH, DISHWASHING CLEANSER, LIQUID HAND SOAP, MEDICATED GREEN SOAP, AND SCRUB SOAP. ALBERT PICK COMPANY, INC., Chicago, Ill.
Filed Sept. 17, 1947, Serial No. 534,715. Published Aug. 29, 1950. Class 4.

533,871. DOLLS. IDEAL NOVELTY & TOY CO., Hollis, N. Y.
Filed Sept. 23, 1947, Serial No. 535,323. Published Sept. 7, 1948. Class 22.

533,872. PREPARED OR READY-MIXED LIQUID PAINT ENAMELS, VARNISH STAINS, UNDERCOATS FOR BOTH PAINT ENAMELS AND VARNISH STAINS, CLEAR VARNISHES, AND GRAINING COMPOUNDS FOR VARNISHES AND VARNISH STAINS. J. F. KURFEES PAINT COMPANY, Louisville, Ky.
Filed Sept. 24, 1947, Serial No. 535,542. Published Aug. 22, 1950. Class 16.

533,858. MEDIUM SALT; TABLE SALT; SALT SPOOLS, SUGAR-CURE SALT; ETC. THE CAREY SALT COMPANY, Hutchinson, Kans.
Filed Oct. 8, 1947, Serial No. 537,150. Published July 4, 1950. Class 46.

533,854. LIQUID PAINT AND VARNISH REMOVER. ARROW PRODUCTS CORPORATION, Baltimore, Md.
Filed Oct. 10, 1947, Serial No. 537,398. Published Aug. 22, 1950. Class 16.

533,855. MEN'S TROUSERS. COHMAN & WASSERMAN, INC., Baltimore, Md.
Filed Oct. 15, 1947, Serial No. 537,879. Published Aug. 22, 1950. Class 39.

533,856. WOMEN'S SHOES. THE F. & R. LAZARUS & COMPANY, Columbus, Ohio, assignor to Federated Department Stores, Inc., Cincinnati, Ohio, a corporation of Delaware.
Filed Oct. 15, 1947, Serial No. 537,903. Published Aug. 29, 1950. Class 39.

533,857. WRITING AND PRINTING PAPER, AND MAILING AND CORRESPONDENCE ENVELOPES. BUTLER PAPER CORPORATIONS, Chicago, Ill.
Filed Nov. 8, 1947, Serial No. 540,518. Published June 20, 1950. Class 37.

533,858. LABELING INDICIA. WESTERN LITHOGRAPH COMPANY, Los Angeles, Calif.
Filed Nov. 24, 1947, Serial No. 542,190. Published June 13, 1950. Class 37.

533,859. WOOLEN BLANKETS. ST. MARYS WOOLEN MANUFACTURING COMPANY, St. Marys, Ohio.
Filed Nov. 29, 1947, Serial No. 542,784. Published Aug. 22, 1950. Class 42.

533,860. VEGETABLE SHORTENING. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio.
Filed Dec. 1, 1947, Serial No. 542,812. Published July 18, 1950. Class 46.

533,861. FLAVORING EXTRACTS FOR FOOD PURPOSES. KING EXTRACT COMPANY, San Francisco, Calif.
Filed Dec. 6, 1947, Serial No. 543,609. Published June 27, 1950. Class 46.

533,862. AGRICULTURAL MACHINERY AND IMPLEMENTS FOR SOIL TILLAGE, PLANTING, HARVESTING AND FERTILIZING, ETC. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis.
Filed Dec. 26, 1947, Serial No. 545,417. Published Apr. 11, 1950. Class 23.

533,863. MEN'S AND BOYS' TOPCOATS, OVERCOATS, VESTS, TROUSERS, AND KNICKERBOCKERS. L. GREIF & BRO., INC., Baltimore, Md.
Filed Dec. 26, 1947, Serial No. 545,477. Published Aug. 22, 1950. Class 39.

533,864. CANDY. RICHARDS CO., INC., Salt Lake City, Utah.
Filed Dec. 26, 1947, Serial No. 545,534. Published Mar. 15, 1949. Class 46.

533,865. CLOTH, CONSISTING OF COTTON, WOOL, AND SYNTHETIC FIBERS. FISCH & COMPANY, Los Angeles, Calif.
Filed Jan. 12, 1948, Serial No. 546,766. Published Aug. 29, 1950. Class 42.

533,866. ELECTRIC HEADLIGHTS AND SIGNAL LAMPS FOR STREET AND RAILWAY CROSSINGS, FIRE TRUCKS, EMERGENCY TRUCKS, AUTOMOBILES, DIESEL LOCOMOTIVES, RAILWAY ENGINES AND CARS, STREET CARS, AMBULANCES, AND REAR LIGHTS FOR RAILWAY CARS. MARS SIGNAL-LIGHT COMPANY, Chicago, Ill.
Filed Aug. 14, 1947, Serial No. 546,908. Published Aug. 22, 1950. Class 21.

533,867. PROTECTIVE COATINGS FOR COVERING PAINT SPRAY BOOTHS, PAINT RACKS, ETC. DETREX CORPORATION, Detroit, Mich.
Filed Jan. 14, 1948, Serial No. 546,975. Published Aug. 22, 1950. Class 16.

533,868. INSTRUMENTS ADAPTED TO TIME THE PERMANENT WAVING OF HUMAN HAIR, ETC. DISTINCTIVE PRODUCTS DEVELOPMENT CORP., Cincinnati, Ohio.
Filed Jan. 17, 1948, Serial No. 547,329. Published Sept. 5, 1950. Class 26.

533,869. PREFABRICATED HOUSES, AND PARTS AND FURNISHINGS THEREFOR — NAMELY, FRAMED DOOR AND WINDOW SUB-ASSEMBLIES. VIRGINIA LEE HOMES, INC., Seattle, Wash.
Filed Jan. 19, 1948, Serial No. 547,466. Published Aug. 15, 1950. Class 12.

533,870. WATCHES. HAMILTON WATCH COMPANY, Lancaster, Pa.
Filed Jan. 29, 1948, Serial No. 548,255. Published Sept. 5, 1950. Class 27.

533,871. STORAGE LOCKERS. ALL-STEEL EQUIPMENT INC., Aurora, Ill.
Filed Feb. 6, 1948, Serial No. 548,904. Published Aug. 15, 1950. Class 32.

533,872. STORAGE LOCKERS. ALL-STEEL EQUIPMENT INC., Aurora, Ill.
Filed Feb. 7, 1948, Serial No. 549,038. Published Aug. 15, 1950. Class 32.

533,873. WOMEN'S AND GIRLS' SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. APPLEBAUM-MAUTNER COMPANY, INC., Madison, Wis.
Filed Feb. 12, 1948, Serial No. 549,489. Published Aug. 22, 1950. Class 39.

533,874. CANDY. THE FLAVOUR CANDY COMPANY, Chicago, Ill.
Filed Feb. 16, 1948, Serial No. 549,797. Published July 4, 1950. Class 46.

533,875. MINERAL THERMAL INSULATION COMPRISING AN EXPANDED VOLCANIC GLASS. ILLINOIS CLAY PRODUCTS COMPANY, Joliet, Ill.
Filed Feb. 17, 1948, Serial No. 549,931. Published Sept. 20, 1949. Class 12.

533,876. FLEXIBLE PLASTIC FOOD DISH COVERS, AND WASHING MACHINE COVERS, RUBBER SINK MATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Feb. 18, 1948, Serial No. 550,084. Published Aug. 29, 1950. Class 50.

533,877. BOARD GAME PLAYED WITH MOVABLE PIECES. GEORGE B. RASER, Ashtabula, Ohio.
Filed Mar. 4, 1948, Serial No. 551,199. Published Aug. 22, 1950. Class 22.

533,878. CEMENT FOR FILLING CRACKS, AND SETTING AND RESETTING OLD AND NEW TILE. SCHALK CHEMICAL COMPANY, Los Angeles, Calif.
Filed Apr. 3, 1948, Serial No. 553,789. Published Aug. 29, 1950. Class 12.

533,879. COATING MATERIAL CONTAINING GREASE, LEAD, AND ZINC FOR SEALING AND LUBRICATING DRILLING TOOL JOINTS. WERTON D. MOORE, doing business as W. D. Moore Company, Tulsa, Okla.
Filed Apr. 5, 1948, Serial No. 553,892. Published Aug. 15, 1950. Class 12.

533,880. DARK-FIELD ILLUMINATORS FOR GEMS. GEMOLOGICAL INSTITUTE OF AMERICA, Los Angeles, Calif.
Filed Apr. 6, 1948, Serial No. 553,959. Published Aug. 15, 1950. Class 26.

533,881. COSMETICS—NAMELY, COSMETIC HAIR-DYES AND TINTING PREPARATIONS; AND AFTER-SHAVING LOTIONS AND CREAMS. JOSEF JOHN POMERANZ, Helsingfors, Finland.
Filed Apr. 9, 1948, Serial No. 554,255. Published Sept. 5, 1950. Class 51.

533,882. COATING COMPOSITIONS IN THE NATURE OF LACQUERS, ETC. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed Apr. 17, 1948, Serial No. 554,909. Published Aug. 22, 1950. Class 16.

533,883. SYNTHETIC RESIN COATING COMPOSITIONS IN THE NATURE OF LACQUERS AND ENAMELS FOR THE TREATMENT OF TEXTILES AND PARTICULARLY TEXTILES EMPLOYED IN THE FABRICATION AND DECORATION OF AIRCRAFT AND OTHER VEHICLES. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed Apr. 17, 1948, Serial No. 554,914. Published Aug. 22, 1950. Class 16.

533,884. RECTAL SUPPOSITORIES. WALTER A. FANSLER, doing business under the firm name and style of Fuller Pharmaceutical Company, Minneapolis, Minn.
Filed Apr. 19, 1948, Serial No. 554,969. Published July 25, 1950. Class 18.

533,885. INSTRUMENTS FOR TESTING THE DIELECTRIC CAPACITY OF INSULATION. MECHANICAL AND ELECTRICAL DEVELOPMENT COMPANY, Kansas City, Mo.
Filed Apr. 19, 1948, Serial No. 554,993. Published Sept. 5, 1950. Class 26.

533,886. FISHING LINES. UNITED STATES WHIP COMPANY, doing business as U. S. Line Company, Westfield, Mass.
Filed Nov. 18, 1947, Serial No. 555,905. Published Feb. 14, 1950. Class 22.

533,887. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. LORRAINE FOOD PRODUCTS, INC., New York and Yonkers, N. Y.
Filed May 4, 1948, Serial No. 556,207. Published July 18, 1950. Class 46.

533,888. LIQUID LOTION TYPE SKIN CONDITIONER FOR PERSONAL USE BY UNDERTAKERS. UNDERTAKERS SUPPLY COMPANY, Chicago, Ill.
Filed May 7, 1948, Serial No. 556,496. Published July 25, 1950. Class 51.

533,889. SOCKS, STOCKINGS, SCARVES, FABRIC GLOVES, HATS, CAPS, CARDIGANS, JUMPERS, AND NECKTIES. MUNRO & COMPANY LIMITED, Edinburgh, Scotland.
Filed Apr. 30, 1948, Serial No. 556,515. Published Aug. 15, 1950. Class 39.

533,890. INSECTICIDES. WESTERN CHEMICAL COMPANY, St. Joseph, Mo.
Filed Jan. 30, 1948, Serial No. 556,747. Published Aug. 29, 1950. Class 6.

533,891. JOINT REINFORCING SYSTEM FOR COMPOSITION WALLBOARD, COMPRISING PAPER TAPE AND CEMENT, AND JOINT CEMENT. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed May 12, 1948, Serial No. 556,934. Published Aug. 29, 1950. Class 12.

533,892. WAX IN BAR FORM MADE OF A COMBINATION OF VEGETABLE AND PETROLEUM WAX USED TO WAX FLOORS BY MECHANICAL MEANS. G. H. TENNANT COMPANY, Minneapolis, Minn.
Filed May 17, 1948, Serial No. 557,227. Published Aug. 15, 1950. Class 16.

533,893. GOLF BALLS. THE SPRINGFIELD COMPANY, Springfield, Mass.
Filed May 20, 1948, Serial No. 557,473. Published Aug. 22, 1950. Class 22.

533,894. GOLF BALLS. THE SPRINGFIELD COMPANY, Springfield, Mass.
Filed May 20, 1948, Serial No. 557,475. Published Aug. 22, 1950. Class 22.

533,895. EMBROCATION. PHARMAX LIMITED, Kent, England.
Filed May 26, 1948, Serial No. 557,869. Published July 25, 1950. Class 18.

533,896. SLIDE FASTENERS. SIDNEY LEIBOWITZ, doing business as Super Notion Co., New York, N. Y.
Filed June 5, 1948, Serial No. 558,564. Published Sept. 5, 1950. Class 13.

533,897. LEATHER. EAGLE-OTTAWA LEATHER COMPANY, Grand Haven, Mich.
Filed June 10, 1948, Serial No. 558,877. Published Aug. 29, 1950. Class 1.

533,898. INFANTS' CHRISTENING SETS, CHILDREN'S DRESSES, LEGGING SETS, COATS, SNOW SUITS, PRAM SUITS, AND BUNTINGS. S. D. SHAPIRO, INC., Brooklyn, N. Y.
Filed June 14, 1948, Serial No. 559,183. Published Aug. 29, 1950. Class 39.

533,899. FLUORESCENT LIGHTING TUBES OF INDUSTRIAL AND LIKE SIZE ADAPTED ONLY FOR STRUCTURALLY SECURED INSTALLATIONS, ETC. BRANCH INDUSTRIES, INC., New York, N. Y.
Filed June 18, 1948, Serial No. 559,573. Published Aug. 22, 1950. Class 21.

533,900. PACKAGE OF ASSORTED BOWLING SUPPLIES CONTAINING CLEANERS, CLOTHS, LACES, ETC. WARNER F. WILHELM, doing business as Bowling Products Company, Chicago, Ill.
Filed June 22, 1948, Serial No. 559,973. Published Aug. 15, 1950. Class 22.

533,901. TABLE GLASSWARE, GLASS PIPETTES AND TUBING FOR MAKING SCIENTIFIC THERMOMETERS OR FOR ANY OTHER PURPOSE, UNSET STAINED GLASS WINDOWS, CHURCH FURNISHING GLASS. JAMES POWELL & SONS (WHITEFRIARS) LIMITED, Wealdstone, England.
Filed June 23, 1948, Serial No. 560,050. Published Aug. 15, 1950. Class 33.

533,902. TABLE GLASSWARE, GLASS PIPETTES AND TUBING FOR MAKING SCIENTIFIC THERMOMETERS OR FOR ANY OTHER PURPOSE, UNSET STAINED GLASS FOR WINDOWS, CHURCH FURNISHING GLASS. JAMES POWELL & SONS (WHITEFRIARS) LIMITED, Wealdstone, England.
Filed June 23, 1948, Serial No. 560,051. Published Aug. 15, 1950. Class 33.

533,903. HAND-SCREW CLAMPS. ADJUSTABLE CLAMP COMPANY, Chicago, Ill.
Filed June 25, 1948, Serial No. 560,153. Published July 18, 1950. Class 23.

533,904. ELECTRIC FLOOR POLISHING MACHINES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed June 25, 1948, Serial No. 560,205. Published Aug. 22, 1950. Class 21.

533,905. SOUVENIRS IN THE FORM OF MINIATURE BASEBALL BATS AND MITTS, ETC. NATIONAL BASEBALL HALL OF FAME AND MUSEUM, INC., Cooperstown, N. Y.
Filed July 13, 1948, Serial No. 561,257. Published Aug. 29, 1950. Class 50.

533,906. READY-MIXED PAINTS FOR INTERIOR USE. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed July 14, 1948, Serial No. 561,334. Published Aug. 22, 1950. Class 16.

533,907. FUSE CUTOUTS AND DISCONNECT SWITCHES. LINE MATERIAL COMPANY, Milwaukee, Wis., now by merger McGraw Electric Company, a corporation of Delaware.
Filed July 15, 1948, Serial No. 561,471. Published Aug. 22, 1950. Class 21.

533,908. LEATHER SHOES. THE COWARD SHOE, INC., New York, N. Y.
Filed July 20, 1948, Serial No. 561,727. Published Aug. 22, 1950. Class 39.

533,909. RADIO RECEIVING TUBES. RAYTHEON MANUFACTURING COMPANY, Newton, Mass.
Filed July 20, 1948, Serial No. 561,773. Published Aug. 29, 1950. Class 21.

533,910. DUSTING AND POLISHING PAPER. KALAMAZOO VEGETABLE PARCHMENT CO., Parchment, Mich.
Filed July 21, 1948, Serial No. 561,830. Published Aug. 29, 1950. Class 37.

533,911. ASPHALT ROOF PAINT SOLD IN READY-MIXED FORM, AND PROTECTIVE PAINT FOR MACHINERY, BUILDINGS, AND FENCES. CHICAGO PAINTS, INC., Chicago, Ill.
Filed Aug. 4, 1948, Serial No. 562,756. Published Aug. 29, 1950. Class 16.

533,912. ELECTRIC SUPPLIES—NAMELY, MOTORS, ELECTRIC MOTOR STARTERS, SWITCHES, ELECTRICAL FITTINGS, NAMELY, ELECTRIC CONDUIT FITTINGS SUCH AS L's, T's, AND COUPLINGS, ETC. HALL & CO., INC., Spartanburg, S. C.
Filed Aug. 5, 1948, Serial No. 562,851. Published Aug. 29, 1950. Class 21.

533,913. ELECTRICAL CONTACTS, DEVICES CONTROLLING PRESSURE BETWEEN ELECTRICAL CONTACTS, MOTOR DRIVEN GOVERNORS, AND ERROR RESPONSIVE ELECTRICAL CONTACTS USED IN SERVO-MOTOR SYSTEMS. W. C. ROBINETTE CO., South Pasadena, Calif.
Filed Aug. 5, 1948, Serial No. 562,887. Published Aug. 22, 1950. Class 21.

533,914. NYLON COVERED STEEL CABLE TO BE USED FOR FISHING LEADERS. BERKLEY W. BEDELL, doing business as Berkley Fly Co., Spirit Lake, Iowa.
Filed Aug. 12, 1948, Serial No. 563,233. Published Aug. 22, 1950. Class 22.

533,915. FLAT OIL FINISH PAINT APPLIED OVER WALL PAPER, WALL PAINTS, WALLBOARD, AND UNPAINTED PLASTER. PURITY PAINT PRODUCTS CORPORATION, Brooklyn, N. Y.
Filed Aug. 17, 1948, Serial No. 563,634. Published Aug. 29, 1950. Class 16.

533,916. OPHTHALMIC FRAMES AND MOUNTINGS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed Aug. 21, 1948, Serial No. 563,802. Published Aug. 15, 1950. Class 26.

533,917. INDICATING, SIGNALING, AND RECORDING GAUGES USED TO PROVIDE INDICATIONS REPRESENTATIVE OF THE CONFORMITY OR NONCONFORMITY OF THE CONTOURS OR PROFILES OF IRREGULARLY SHAPED MACHINE PARTS. INDUSTRIAL SCIENTIFIC COMPANY, New York, N. Y.
Filed Aug. 23, 1948, Serial No. 563,856. Published Sept. 5, 1950. Class 26.

533,918. LIFE PRESERVER CUSHIONS; LIFE PRESERVER JACKETS, VESTS, AND BELTS; FISHING CREELS; SPORTING EQUIPMENT VESTS; AND SPORTSMEN'S GAME CARRYING BAGS. BURLINGTON MILLS INCORPORATED, Burlington, Wis.
Filed Aug. 24, 1948, Serial No. 563,900. Published Aug. 22, 1950. Class 22.

533,919. TEXTILE CARPETS AND RUGS. THE WORNOCK MILLS, INC., New York, N. Y.
Filed Sept. 1, 1948, Serial No. 564,543. Published Aug. 29, 1950. Class 42.

533,920. TIME INDICATORS CONTAINING A ROTATABLE CIRCULAR DISC AND INDEX FOR INDICATING A LAPSE OF TIME. BOSTON MANUFACTURING CO., Boston, Mass.
Filed Sept. 3, 1948, Serial No. 564,604. Published Sept. 5, 1950. Class 26.

533,921. HEALING AND PALLIATIVE SALVES FOR EXTERNAL USE ONLY. ARTHUR J. RUTSHAW, Chicago, Ill.
Filed Sept. 3, 1948, Serial No. 564,654. Published July 25, 1950. Class 18.

533,922. ELECTRIC MINING LOCOMOTIVES. GOODMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed Sept. 21, 1948, Serial No. 565,549. Published Aug. 22, 1950. Class 21.

533,923. HOT WATER RANGE BOILERS. FORD STEEL PRODUCTS CORPORATION, Tarrytown, N. Y.
Filed Sept. 22, 1948, Serial No. 565,616. Published Aug. 22, 1950. Class 34.

533,924. BOYS' AND GIRLS' SHOES. MIDLAND SHOE COMPANY, St. Louis, Mo.
Filed Sept. 24, 1948, Serial No. 565,794. Published Aug. 22, 1950. Class 39.

533,925. MEN'S AND BOYS' SHOES. MIDLAND SHOE COMPANY, St. Louis, Mo.
Filed Sept. 24, 1948, Serial No. 565,795. Published Aug. 22, 1950. Class 39.

533,926. GENERAL HOUSEHOLD CLEANER IN FLAKE FORM AND HAVING ANTISEPTIC QUALITIES, TO BE DISSOLVED IN WATER PRIOR TO USE. BUFORD R. STONE, doing business as Home Pride Products, Leaksville, N. C.
Filed Oct. 5, 1948, Serial No. 566,482. Published Aug. 29, 1950. Class 52.

533,927. QUATERNARY AMMONIUM COMPOUNDS. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa.
Filed Oct. 14, 1948, Serial No. 567,009. Published Aug. 29, 1950. Class 6.

533,928. VELOCIPEDES, SCOOTERS, SLEDS, TOY AUTOMOBILES, ETC. WALTER BURD AND ESTHER B. BURD, Westfield, N. J.
Filed Oct. 19, 1948, Serial No. 567,183. Published Aug. 15, 1950. Class 22.

533,929. READY-MIXED PAINTS. CHILTON PAINT COMPANY, College Point, N. Y.
Filed Aug. 17, 1948, Serial No. 567,323. Published Aug. 15, 1950. Class 16.

533,930. POWDER FOR INFANTS. Q-TIPS INC., Long Island City, N. Y.
Filed Oct. 27, 1948, Serial No. 567,714. Published Aug. 29, 1950. Class 51.

533,931. PORTABLE TANKS CONTAINING COMPRESSED GAS FOR HEATING, ILLUMINATING, COOKING, AND REFRIGERATING PURPOSES. SPRINGFIELD GAS LIGHT COMPANY, Springfield, Mass.
Filed Oct. 30, 1948, Serial No. 567,928. Published Aug. 29, 1950. Class 6.

533,932. CHEMICAL COMPOSITION CONTAINING WAX AND STARCH FOR IMPROVING THE FINISH AND FACILITATING THE IRONING OF FABRICS. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed Nov. 8, 1948, Serial No. 568,376. Published June 27, 1950. Class 6.

533,933. WOMEN'S DRESSES, FROCKS, GOWNS, CLOAKS, CASSOCKS, WRAPS, ETC. "SOCIETE ANONYME J. R.", SOCIÉTÉ ANONYME, Paris, France.
Filed Nov. 8, 1948, Serial No. 568,404. Published Aug. 22, 1950. Class 39.

533,934. COAL. PITTSBURGH CONSOLIDATION COAL COMPANY, Pittsburgh, Pa.
Filed Nov. 9, 1948, Serial No. 568,445. Published Aug. 15, 1950. Class 1.

533,935. COAL. PITTSBURGH CONSOLIDATION COAL COMPANY, Pittsburgh, Pa.
Filed Nov. 9, 1948, Serial No. 568,446. Published Aug. 15, 1950. Class 1.

533,936. COAL. PITTSBURGH CONSOLIDATION COAL COMPANY, Pittsburgh, Pa.
Filed Nov. 9, 1948, Serial No. 568,447. Published Aug. 15, 1950. Class 1.

533,937. COAL. PITTSBURGH CONSOLIDATION COAL COMPANY, Pittsburgh, Pa.
Filed Nov. 9, 1948, Serial No. 568,448. Published Aug. 15, 1950. Class 1.

533,938. PREPARATION MARKETED IN THE FORM OF TABLETS FOR USE IN THE TREATMENT OF FLATULENCE, BORBORYGMUS, AND DIGESTIVE DISTURBANCES. STRONG COBB & COMPANY, INC., Cleveland, Ohio.
Filed Nov. 9, 1948, Serial No. 568,467. Published Aug. 29, 1950. Class 18.

533,939. TELEVISION RECEIVING SETS. OLYMPIC RADIO & TELEVISION INC., Long Island City, N. Y.
Filed Nov. 13, 1948, Serial No. 568,750. Published Aug. 29, 1950. Class 21.

533,940. LADIES', MISSES', AND JUNIOR MISSES' COATS. KEN WHITMORE, INC., Pittsfield, Mass., and New York, N. Y.
Filed Nov. 15, 1948, Serial No. 568,822. Published Aug. 22, 1950. Class 39.

533,941. GAMES PLAYED WITH DIES HAVING A PLURALITY OF SIDES, EACH SIDE HAVING A NUMERAL THEREON. EDWARD G. JESBERG, Los Angeles, Calif.
Filed Nov. 17, 1948, Serial No. 568,955. Published Aug. 15, 1950. Class 22.

533,942. PHARMACEUTICAL PREPARATIONS COMPRISING AQUEOUS SUSPENSIONS OF SULFA DRUGS. ALLIED LABORATORIES, INC., doing business as Pitman-Moore Co., Indianapolis, Ind.
Filed Nov. 26, 1948, Serial No. 569,420. Published Sept. 5, 1950. Class 18.

533,943. TOYS—NAMELY, HOLSTER SETS MADE OF LEATHER AND IMITATION LEATHER, GUNS, PISTOLS, DAGGERS AND SCABBARDS, AND PIRATE OUTFITS, ETC. ESQUIRE NOVELTY CO., New York, N. Y.
Filed Nov. 26, 1948, Serial No. 569,439. Published Aug. 15, 1950. Class 22.

533,944. BAMBOO VAULTING POLES, AND BAMBOO SKI POLES. GEO. H. MAUS, INC., Amsterdam, N. Y.
Filed Dec. 3, 1948, Serial No. 569,873. Published Jan. 24, 1950. Class 22.

533,945. ARTIFICIAL FISH LURES. ANTHONY M. D'ANNA, doing business under the title of A. D. Manufacturing Co., Monroe, La.
Filed Nov. 24, 1948, Serial No. 569,931. Published Aug. 22, 1950. Class 22.

533,946. SPINNING TOPS. ROYAL TOPS MFG. CO., Long Island City, N. Y.
Filed Dec. 4, 1948, Serial No. 569,996. Published Aug. 15, 1950. Class 22.

533,947. ELECTRIC POWER METERING ASSEMBLIES, WHICH INCLUDE A TRANSFORMER, A METER, A TEST BLOCK, CONDUIT, FITTINGS, AND LEADS. SOUTHERN METER & TRANSFORMER CO., Atlanta, Ga.
Filed Dec. 8, 1948, Serial No. 570,235. Published Sept. 5, 1950. Class 26.

533,948. CHILDREN'S PICTURE MAKING SET CONTAINING PATTERNS, INSTRUCTIONS, AND VARIOUSLY COLORED CLOTH, TO BE CUT AND PASTED TO OUTLINES TO PRODUCE PICTURES. HAROLD A. FALES, doing business as Fales Laboratories, Haverstraw, N. Y.
Filed Dec. 10, 1948, Serial No. 570,294. Published Aug. 15, 1950. Class 22.

533,949. LAMP SHADES FOR ELECTRIC LAMPS. MERCANTILE STORES COMPANY, INC., Wilmington, Del.
Filed Dec. 16, 1948, Serial No. 570,623. Published Aug. 29, 1950. Class 21.

533,950. CALCULATING MACHINES. MARCHANT CALCULATING MACHINE COMPANY, Oakland, Calif.
Filed Dec. 20, 1948, Serial No. 570,862. Published Sept. 5, 1950. Class 26.

533,951. MEN'S CLOTHING CONSISTING OF SUITS, OVERCOATS, WAISTCOATS, AND TROUSERS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., and St. Louis, Mo.
Filed Dec. 22, 1948, Serial No. 570,976. Published Aug. 22, 1950. Class 39.

533,952. ELECTRONIC COMPUTING AND DATA HANDLING APPARATUS INCLUDING MAGNETIC STORAGE DRUMS, ELECTRONIC COUNTERS AND STORING ELEMENTS, ELECTROMECHANICAL COUNTERS AND INDICATORS. ENGINEERING RESEARCH ASSOCIATES, INC., Arlington, Va., and St. Paul, Minn.
Filed Dec. 23, 1948, Serial No. 571,017. Published Sept. 5, 1950. Class 26.

533,953. WATCHES. BENRUS WATCH COMPANY, INC., New York, N. Y.
Filed Dec. 27, 1948, Serial No. 571,109. Published Sept. 5, 1950. Class 27.

533,954. SHOES MADE OF FABRIC, RUBBER, AND RUBBER COMPOSITION OR COMBINATIONS THEREOF. MISHAWAKA RUBBER AND WOOLEN MANUFACTURING COMPANY, Mishawaka, Ind.
Filed Dec. 30, 1948, Serial No. 571,349. Published Aug. 22, 1950. Class 39.

533,955. ANODE DEVICES FOR INSERTION IN WATER HEATERS TO ELECTROLYTICALLY PREVENT CORROSION. BAUER MFG. CORPORATION, Hawthorne, Calif.
Filed Jan. 7, 1949, Serial No. 571,788. Published Aug. 22, 1950. Class 21.

533,956. ANODE DEVICES FOR INSERTION IN WATER HEATERS TO ELECTROLYTICALLY PREVENT CORROSION. MISSION APPLIANCE CORPORATION, Hawthorne, Calif.
Filed Jan. 8, 1949, Serial No. 571,868. Published Aug. 22, 1950. Class 21.

533,957. PANTY-GIRDLES. IRVING FOX, doing business as Hollywood Youth, Los Angeles, Calif.
Filed Jan. 13, 1949, Serial No. 572,093. Published Aug. 22, 1950. Class 39.

533,958. RADIO RECEIVING SETS AND RADIO PHONOGRAPH COMBINATIONS. MERCANTILE STORES CO., INC., Wilmington, Del.
Filed Jan. 14, 1949, Serial No. 572,184. Published Aug. 29, 1950. Class 21.

533,959. WORK DESKS AND STOOLS, WORK CHAIRS, AND DISPLAY AND STORAGE RACKS. STANDARD PRESSED STEEL CO., Jenkintown, Pa.
Filed Jan. 22, 1949, Serial No. 572,599. Published Aug. 22, 1950. Class 32.

533,960. RUBBER BOOTS AND RUBBER OVERSHOES. LA CROSSE RUBBER MILLS COMPANY, La Crosse, Wis.
Filed Jan. 24, 1949, Serial No. 572,671. Published Aug. 22, 1950. Class 39.

533,961. LUGS FOR ELECTRICAL CABLES, METAL CABLE CONNECTORS AND RUBBER COVERINGS FOR SUCH CONNECTORS. FELIX M. ANTHONY, doing business as F. M. Anthony Company, Piedmont, Calif.
Filed Jan. 25, 1949, Serial No. 572,709. Published Aug. 22, 1950. Class 21.

533,962. FUR SKINS. JACOB BECHER & SON, INC., New York, N. Y.
Filed Jan. 26, 1949, Serial No. 572,826. Published Aug. 29, 1950. Class 1.

533,963. KITS CONTAINING MATERIALS FROM WHICH MODEL RAILROAD TRAINS, TRACKS, SIGNALS, AND RELATED EQUIPMENT CAN BE CONSTRUCTED FOR AMUSEMENT PURPOSES. PAUL STERNBACH, Stamford, Conn.
Filed Feb. 1, 1949, Serial No. 573,150. Published Aug. 29, 1950. Class 22.

533,964. MEDICINAL AND PHARMACEUTICAL PREPARATIONS COMPRISING SULFONAMIDES, BARBITURATES, AND ANALGESICS. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Feb. 3, 1949, Serial No. 573,274. Published Sept. 5, 1950. Class 18.

533,965. PROTECTIVE COATING—NAMELY, COTTON FABRIC TAPE OF VARIOUS WIDTHS, SATURATED WITH A SUBSTANCE HAVING A BITUMINOUS BASE, SOLD BY WEIGHT, IN ROLLED UP FORM FOR COVERING AND INSULATING PIPE, DUCTS, AND SIMILAR CONDUITS. THE TAPECOAT COMPANY, Evanston, Ill.
Filed Feb. 7, 1949, Serial No. 573,442. Published Aug. 15, 1950. Class 12.

533,966. CRYSTAL CONTROLLED MULTI-CHANNEL OSCILLATOR UTILIZED IN TESTING RADIO, TELEVISION, AND OTHER ELECTRONIC EQUIPMENT. KAY ELECTRIC COMPANY, Pine Brook, N. J.
Filed Feb. 9, 1949, Serial No. 573,557. Published Sept. 5, 1950. Class 26.

533,967. SPECTRUM ANALYZER SET OR APPARATUS UTILIZED IN TESTING RADIO, TELEVISION, AND OTHER ELECTRONIC EQUIPMENT. KAY ELECTRIC COMPANY, Pine Brook, N. J.
Filed Feb. 9, 1949, Serial No. 573,559. Published Sept. 5, 1950. Class 26.

533,968. COMPOUND FOR USE IN CLEANING WHITE WALL TIRES. SHUR GLOSS MANUFACTURING CO., Chicago, Ill.
Filed Feb. 10, 1949, Serial No. 573,690. Published Aug. 29, 1950. Class 52.

533,969. BASEBALLS, BASEBALL GLOVES, BASEBALL MITTS, ETC. SOUTHERN ATHLETIC SUPPLY COMPANY, INCORPORATED, Richmond, Va.
Filed Feb. 12, 1949, Serial No. 573,799. Published Aug. 15, 1950. Class 22.

533,970. SOIL FUMIGANT. ESTON CHEMICALS, INC., Los Angeles, Calif.
Filed Feb. 14, 1949, Serial No. 573,832. Published Aug. 22, 1950. Class 6.

533,971. SHEETS, SHEATHINGS, SLABS, SIDING, AND ROOFING MATERIALS COMPOSED OF ASBESTOS CEMENT, COMPOSITIONS, AND OTHER MISCELLANEOUS MATERIALS. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed Feb. 16, 1949, Serial No. 573,949. Published Aug. 29, 1950. Class 12.

533,972. VOLTAGE REGULATORS. SORENSEN & COMPANY, INC., Stamford, Conn.
Filed Feb. 17, 1949, Serial No. 574,064. Published Aug. 22, 1950. Class 21.

533,973. CONSOLIDATED CERTIFICATE. TENNESSEE COAL, IRON AND RAILROAD COMPANY, Birmingham, Ala.
CONCRETE REINFORCING BARS. Filed Feb. 18, 1949, Serial No. 574,116. Published June 20, 1950. Class 12.
COTTON TIE BUCKLES, NAILS, AND TRACK SPIKES AND BOLTS. Filed Feb. 18, 1949, Serial No. 574,117. Published Jan. 31, 1950. Class 13.
STEEL BARS. Filed Feb. 18, 1949, Serial No. 574,118. Published Sept. 19, 1950. Class 14.

533,974. LADIES' AND GIRLS' DRESSES, FROCKS, BLOUSES, ETC. GOLDWATERS INCORPORATED, Phoenix, Ariz.
Filed Feb. 28, 1949, Serial No. 574,617. Published Aug. 15, 1950. Class 39.

533,975. BUTCHERS' CLEAVERS AND SPLITTERS. SIMONDS WORDEN WHITE COMPANY, Dayton, Ohio.
Filed Feb. 28, 1949, Serial No. 574,653. Published Aug. 1, 1950. Class 23.

533,976. AUTOMATIC BUTTERFLY DAMPER STACKS. ROBBINS & MYERS, INC., Springfield, Ohio.
Filed Mar. 3, 1949, Serial No. 574,863. Published Aug. 15, 1950. Class 34.

533,977. MUSICAL TOY EGG. THE LA RENZ COMPANY, Cleveland, Ohio.
Filed Mar. 4, 1949, Serial No. 574,912. Published Aug. 22, 1950. Class 22.

533,978. METAL ROOF SCUTTLES, SIDEWALK DOORS, CELLAR DOORS, AND STAIRWAYS FOR BUILDINGS. THE BILCO COMPANY, New Haven, Conn.
Filed Mar. 8, 1940, Serial No. 575,035. Published Aug. 29, 1950. Class 12.

533,979. ENZYME CLARIFIER OF FUNGAL ORIGIN FOR THE TREATMENT OF PECTIN AND FRUIT JUICES, ETC. TAKAMINE LABORATORY, INC., Clifton, N. J.
Filed Feb. 16, 1949, Serial No. 575,179. Published Sept. 5, 1950. Class 6.

533,980. CONCRETE CURING COMPOUND. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed Mar. 19, 1949, Serial No. 575,733. Published Aug. 29, 1950. Class 12.

533,981. DIMINUTIVE RADIO RECEIVING SETS ADAPTED TO BE CARRIED IN THE POCKET OR PURSE. ELECTRONICS SYSTEMS CORP., Kansas City, Mo.
Filed Mar. 24, 1949, Serial No. 575,977. Published Aug. 22, 1950. Class 21.

533,982. IGNITION SYSTEMS FOR INTERNAL COMBUSTION ENGINES—NAMELY, DISTRIBUTORS, COILS, CONDENSERS, AND CONTACT POINTS. MALLORY ELECTRIC CORPORATION, Detroit, Mich.
Filed Mar. 24, 1949, Serial No. 575,999. Published Aug. 22, 1950. Class 21.

533,983. PREPARATION FOR TREATING SIZED OR DRESSED TEXTILE MATERIALS TO PREVENT MILDEW AND OTHER FUNGUS GROWTHS THEREON. MANUFACTURE DE PRODUITS SPECIAUX ROBERT LEVAUX, INGENIEUR & CIE, Breteuil-Sur-Noye, France.
Filed Mar. 26, 1949, Serial No. 576,124. Published Aug. 29, 1950. Class 6.

533,984. WATER SOLUBLE CLEANING COMPOSITIONS HAVING THE NATURE OF ALKALINE POWDERS, AND FREE FROM ABRASIVE SUBSTANCES, PARTICULARLY USEFUL FOR CLEANING SURFACES OF METAL. KLEM CHEMICALS, INC., Dearborn, Mich.
Filed Mar. 1, 1949, Serial No. 576,382. Published Aug. 29, 1950. Class 52.

533,985. CINEMATOGRAPH FILMS PREPARED FOR EXHIBITION. J. ARTHUR RANK ORGANISATION LIMITED, London, England.
Filed Apr. 2, 1949, Serial No. 576,554. Published Sept. 5, 1950. Class 26.

533,986. SECTIONAL WALL AND TOILET WALL PARTITIONS AND DOORS. JOHN C. PETTERSON, doing business as J. C. Petterson Company, Altadena and Alhambra, Calif.
Filed Apr. 5, 1949, Serial No. 576,653. Published Aug. 15, 1950. Class 12.

533,987. SHOES. FRENCH, SHRINER & URNER MANUFACTURING CO., Boston, Mass.
Filed Apr. 5, 1949, Serial No. 576,676. Published Aug. 22, 1950. Class 39.

533,988. ARTICLES OF HARDWARE — NAMELY, NAILS, BOLTS, NUTS, SCREWS, SWIVEL CONNECTIONS, HINGES, EYE CONNECTING MEMBERS, HOOKS, CHAIN LINKS, ALL OF WHICH HAVE APPLIED THERETO A PARTICULAR METAL COATING. FREEPORT SULPHUR COMPANY, doing business under the divisional name of Tainton Products Company, Baltimore, Md.
Filed Apr. 8, 1949, Serial No. 576,798. Published Sept. 5, 1950. Class 13.

533,989. VARNISH TO BE USED AS AN ADDITIVE TO PRINTING INK. BENJAMIN S. EBERSOLE, doing business as Allied Litho Supply Co., San Francisco, Calif.
Filed Apr. 12, 1949, Serial No. 576,963. Published Sept. 5, 1950. Class 11.

533,990. VELOCIPEDES AND TRICYCLES. JUNIOR TOY CORPORATION, Hammond, Ind.
Filed Apr. 15, 1949, Serial No. 577,192. Published Aug. 15, 1950. Class 22.

533,991. BRUSHES FOR APPLYING PAINT, VARNISH, SHELLAC, KALSOMINE, WHITEWASH, AND SIMILAR LIQUIDS. STAR BRUSH MANUFACTURING CO., INC., Boston, Mass.
Filed Apr. 15, 1949, Serial No. 577,235. Published Sept. 5, 1950. Class 29.

533,992. BRUSHES FOR APPLYING PAINT, VARNISH, SHELLAC, KALSOMINE, WHITE WASH, AND SIMILAR LIQUIDS. STAR BRUSH MANUFACTURING CO., INC., Boston, Mass.
Filed Apr. 15, 1949, Serial No. 577,236. Published Sept. 5, 1950. Class 29.

533,993. BRUSHES—NAMELY, WALL BRUSHES, SCRUBBING BRUSHES, CLOTHES BRUSHES, PAINT, VARNISH, AND WHITEWASH BRUSHES. STAR BRUSH MANUFACTURING CO., INC., Boston, Mass.
Filed Apr. 15, 1949, Serial No. 577,237. Published Sept. 5, 1950. Class 29.

533,994. BRUSHES FOR PAINTING, VARNISHING OR SIMILAR LIQUID-APPLYING USE, AND FOR CLEANING, POLISHING, AND SWEEPING. WHITING-ADAMS COMPANY, INC., Boston, Mass.
Filed Apr. 15, 1949, Serial No. 577,243. Published Sept. 5, 1950. Class 29.

533,995. WOMEN'S AND MISSES' DRESSES, SKIRTS, PLAY SUITS, HALTERS, SHORTS, JEANS AND PEDAL PUSHERS. M. R. SANDERS & SONS, INC., Cincinnati, Ohio.
Filed Apr. 18, 1949, Serial No. 577,346. Published Aug. 22, 1950. Class 39.

533,996. WATCH BRACELETS, NECK-CHAINS, CHARMS, CHARM BRACELETS, FINGER RINGS, ORNAMENTAL PINS, AND COSTUME JEWELRY MADE IN WHOLE OF, IN PART OF, OR PLATED WITH PRECIOUS METAL. SWISS RADIUM & DIAL PAINTING CO., INC., New York, N. Y.
Filed Apr. 19, 1949, Serial No. 577,406. Published Sept. 5, 1950. Class 28.

533,997. POKER CHIPS. TUPPER CORPORATION, Farnumsville, Mass.
Filed Apr. 19, 1949, Serial No. 577,410. Published Aug. 15, 1950. Class 22.

534,000. PLASTIC FILM SHEET MATERIAL FOR MAKING INTO SHOWER CURTAINS, TABLE COVERS, RAIN WEAR, BED SPREADS, SLIP COVERS, DRAPERIES, CLOSET ACCESSORIES, HANDBAGS, AND THE LIKE. COHN-HALL-MARX CO., New York, N. Y., assignor to United Merchants and Manufacturers Inc., New York, N. Y., a corporation of Delaware.
Filed Apr. 28, 1949, Serial No. 577,869. Published Aug. 22, 1950. Class 42.

534,001. FUEL AND AIR MIXERS FOR INTERNAL COMBUSTION ENGINES. SAATY CORPORATION, Providence, R. I.
Filed Apr. 28, 1949, Serial No. 577,904. Published June 6, 1950. Class 23.

534,002. GROUNDING DEVICE ADAPTED TO BE WORN BY AN INDIVIDUAL FOR DISSIPATING A STATIC ELECTRIC CHARGE FROM THE INDIVIDUAL TO A CONDUCTING FLOOR OR SURFACE. WALTER G. LEGGE COMPANY, INC., New York, N. Y.
Filed Apr. 30, 1949, Serial No. 578,032. Published Aug. 29, 1950. Class 21.

534,003. MILD LAXATIVE AND HEADACHE REMEDY IN TABLET FORM: TABLETS FOR TREATMENT OF RHEUMATISM AND LUMBAGO: DIURETIC TABLETS, AND TABLETS FOR THE TREATMENT OF HEAD COLDS, HEADACHES AND NEURALGIA, MUSCULAR PAINS, AND FOR REDUCING ORDINARY FEVER. A-GENE LABORATORIES, St. Louis, Mo.
Filed May 2, 1949, Serial No. 578,066. Published Sept. 5, 1950. Class 18.

534,004. CRYSTALLINE PROCAINE PENICILLIN G AND BUFFERED CRYSTALLINE PENICILLIN G POTASSIUM FOR AQUEOUS INJECTION. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed Apr. 30, 1949, Serial No. 578,117. Published Sept. 5, 1950. Class 18.

534,005. CHEMICAL COMPOUND USED IN WOOL AND WORSTED PROCESSING AND MANUFACTURE. QUAKER CHEMICAL PRODUCTS CORPORATION, Conshohocken, Pa.
Filed May 3, 1949, Serial No. 578,165. Published Sept. 5, 1950. Class 6.

534,006. OPHTHALMIC LENSES. SUNWARE PRODUCTS, INC., New York, N. Y.
Filed May 3, 1949, Serial No. 578,172. Published Sept. 5, 1950. Class 26.

534,007. RADIO AND TELEVISION RECEIVERS. PIONEER TELEVISION COMPANY, Philadelphia, Pa.
Filed May 5, 1949, Serial No. 578,282. Published Aug. 29, 1950. Class 21.

534,008. FRESH APPLES AND PEACHES. ADAMS COUNTY FRUIT PACKING AND DISTRIBUTING COMPANY, Biglerville, Pa.
Filed May 6, 1949, Serial No. 578,307. Published June 27, 1950. Class 46.

534,009. FIREPLACE GRILL. JOHN A. DURST, JR., Mountain View, Calif.
Filed May 6, 1949, Serial No. 578,323. Published Aug. 29, 1950. Class 34.

534,010. LADIES' AND CHILDREN'S PRINCESS SLIPS, NIGHTGOWNS, PAJAMAS, CHEMISES, AND LADIES' UNIFORMS FOR WORK PURPOSES, OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed May 10, 1949, Serial No. 578,532. Published Aug. 22, 1950. Class 39.

534,011. LADIES' AND CHILDREN'S PRINCESS SLIPS, NIGHTGOWNS, PAJAMAS, CHEMISES, AND LADIES' UNIFORMS FOR WORK PURPOSES, OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed May 10, 1949, Serial No. 578,533. Published Aug. 22, 1950. Class 39.

534,012. HAND WOODWORKING TOOLS, RAW MATERIALS, AND PRINTED OR OTHERWISE REPRODUCED INSTRUCTIONS, DIAGRAMS, AND DRAWINGS SOLD AS A UNIT AND INTENDED PRIMARILY FOR CHILDREN'S USE. SKIL-CRAFT CORPORATION, Chicago, Ill.
Filed May 19, 1949, Serial No. 579,142. Published Aug. 15, 1950. Class 22.

534,013. SEEDS—NAMELY, VEGETABLE, FLOWER, AND GRASS SEEDS. FERRY-MORSE SEED CO., Detroit, Mich.
Filed May 21, 1949, Serial No. 579,273. Published Aug. 29, 1950. Class 1.

534,014. PLANTS, TREES, SHRUBS, VINES, AND OTHER ORNAMENTAL NURSERY STOCK. MONROVIA NURSERY COMPANY, Monrovia, Calif.
Filed May 21, 1949, Serial No. 579,285. Published Aug. 29, 1950. Class 1.

534,015. LADIES' UNDERWEAR MADE OF A COMBINATION OF RAYON AND OF NYLON IN SUBSTANTIAL PART. THE MCKAY PRODUCTS CORPORATION, New York, N. Y.
Filed May 23, 1949, Serial No. 579,336. Published Aug. 15, 1950. Class 39.

534,016. HOUSEHOLD DISPENSER FOR ROLLS OF PAPER. POLLOCK PAPER CORPORATION, Dallas, Tex.
Filed May 24, 1949, Serial No. 579,450. Published Aug. 22, 1950. Class 13.

534,017. LAWN SPRINKLERS. U. S. DIE CASTING AND MANUFACTURING CORPORATION, Berkeley, Calif.
Filed May 21, 1949, Serial No. 579,646. Published Sept. 5, 1950. Class 13.

534,018. PLASTIC FIGURINES IN THE SHAPE OF VARIOUS HUMAN CHARACTERS TO BE USED FOR TOY AND AMUSEMENT PURPOSES, AND TOY ANIMALS. BERGEN TOY & NOVELTY CO., INC., Hackettstown, N. J.
Filed May 28, 1949, Serial No. 579,655. Published Aug. 15, 1950. Class 22.

534,019. CLOCKS AND WATCHES. GENERAL TIME CORPORATION, New York, N. Y.
Filed May 28, 1949, Serial No. 579,683. Published Sept. 5, 1950. Class 27.

534,020. PORTABLE EARTH DRILLING MACHINES—NAMELY, SLIM HOLE DRILLS, ETC. GEORGE E. FAILING SUPPLY COMPANY, Enid, Okla.
Filed June 3, 1949, Serial No. 579,919. Published July 18, 1950. Class 23.

534,021. COMBINATION STORM SASHES AND SCREENS. GENERAL WOODCRAFT CO., INC., North Bergen, N. J.
Filed July 6, 1949, Serial No. 580,130. Published Aug. 15, 1950. Class 12.

534,022. DOORS, WINDOWS, SASHES, TRIMS, STORM SASH, WINDOW AND DOOR SCREENS, AND COMBINATION STORM SASH AND SCREENS. GENERAL WOODCRAFT CO., INC., North Bergen, N. J.
Filed June 6, 1949, Serial No. 580,131. Published Aug. 15, 1950. Class 12.

534,023. OPHTHALMOSCOPES AND COMPONENTS THEREOF. AMERICAN CYSTOSCOPE MAKERS, INC., New York, N. Y.
Filed May 26, 1949, Serial No. 580,545. Published Sept. 5, 1950. Class 26.

534,024. LIME IN POWDERED FORM FOR BUILDING AND CONSTRUCTION PURPOSES. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed May 9, 1949, Serial No. 580,555. Published Aug. 15, 1950. Class 12.

534,025. LIME IN POWDERED FORM FOR BUILDING AND CONSTRUCTION PURPOSES. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed May 9, 1949, Serial No. 580,557. Published Aug. 15, 1950. Class 12.

534,026. LIME IN POWDERED FORM FOR BUILDING AND CONSTRUCTION PURPOSES. THE OHIO HYDRATE & SUPPLY COMPANY, Woodville, Ohio.
Filed May 9, 1949, Serial No. 580,559. Published Aug. 15, 1950. Class 12.

534,027. MACHINES OF THE TYPE EMPLOYING REVOLVING BLADES FOR MIXING, COMMINUTING, AND HOMOGENIZING FOODS, DRUGS, AND LIKE MATERIALS. THE W. J. FITZPATRICK COMPANY, Chicago, Ill.
Filed June 16, 1949, Serial No. 580,588. Published June 27, 1950. Class 23.

534,028. KIT FOR MAKING MINIATURE MODELS—NAMELY, AUTOMOBILES FOR EXHIBITION PURPOSES AND THE LIKE. FADOR MANUFACTURING CORP., Elmira, N. Y.
Filed June 17, 1949, Serial No. 580,655. Published Aug. 15, 1950. Class 50.

534,029. TOOTH POWDER AND TOOTH PASTE. THE MEDAMMIN CORP., New York and Monroe, N. Y.
Filed June 20, 1949, Serial No. 580,791. Published Aug. 15, 1950. Class 51.

534,030. COSMETICS—NAMELY, CLEANSING AND LUBRICATING CREAM. HOUSE OF LOWELL, INC., Piqua, Ohio.
Filed June 21, 1949, Serial No. 580,840. Published July 25, 1950. Class 51.

534,031. STEAM DISTILLED TURPENTINE, STEAM DISTILLED DIPENTENE, STEAM DISTILLED PINE OILS, AND WOOD ROSIN. THE DELTA PINE PRODUCTS CORPORATION, Covington, La.
Filed June 23, 1949, Serial No. 580,927. Published Aug. 22, 1950. Class 16.

534,032. TOILET SOAP. ALBERTO CORDERO, doing business as Monte Alto Company, New York, N. Y.
Filed June 29, 1949, Serial No. 581,252. Published Aug. 29, 1950. Class 52.

534,033. CURRENT-LIMITING FUSES. THE CHASE-SHAWMUT COMPANY, Newburyport, Mass.
Filed July 1, 1949, Serial No. 581,405. Published Aug. 22, 1950. Class 21.

534,034. SELF-POLISHING WAX FOR FLOORS AND OTHER SURFACES. MINNIE T. CALI, doing business as Radiant Wash Solution Co., Olean, N. Y.
Filed July 7, 1949, Serial No. 581,583. Published Aug. 29, 1950. Class 4.

534,035. LIQUID AUTOMOBILE POLISH. URBAN R. HADDOCK, Springdale, Ark.
Filed July 8, 1949, Serial No. 581,662. Published Aug. 29, 1950. Class 4.

534,036. IRRIGATING WATER SPRINKLERS. METALLIZING ENGINEERING CO. INC., Long Island City, N. Y.
Filed July 9, 1949, Serial No. 581,724. Published Sept. 5, 1950. Class 13.

534,037. SOAPLESS DETERGENT IN LIQUID FORM FOR GENERAL SURFACE CLEANING. SCHAEFFER MFG. CO., St. Louis, Mo.
Filed July 9, 1949, Serial No. 581,737. Published Aug. 29, 1950. Class 52.

534,038. MEDICINAL COMPOUND CONTAINING MANNITOL HEXANITRATE, ETC. BALDWIN PHARMACAL COMPANY, INC., Newark, N. J.
Filed July 11, 1949, Serial No. 581,755. Published Sept. 5, 1950. Class 18.

534,039. MEDICINAL COMPOUND OF DRUGS AND CHEMICALS, ETC. BALDWIN PHARMACAL COMPANY, INC., Newark, N. J.
Filed July 11, 1949, Serial No. 581,756. Published Sept. 5, 1950. Class 18.

534,040. MEDICINAL COMPOUND CONTAINING SODIUM PHENOBARBITAL AND SODIUM PENTOBARBITAL IN LIQUID AND/OR TABLET FORM AS A PALATABLE SEDATIVE. BALDWIN PHARMACAL COMPANY, INC., Newark, N. J.
Filed July 11, 1949, Serial No. 581,757. Published Sept. 5, 1950. Class 18.

534,041. LIPSTICK, FACE POWDER, PERFUME, COLOGNE, AND BRILLIANTINE. CONSOLIDATED COSMETICS, Chicago, Ill.
Filed July 15, 1949, Serial No. 582,028. Published July 25, 1950. Class 51.

534,042. PLAQUES, RELIEFS, STATUARY (INCLUDING ORNAMENTAL FIGURES), GARMENT HANGERS. W. & J. SLOANE, New York, N. Y.
Filed July 15, 1949, Serial No. 582,067. Published Aug. 15, 1950. Class 50.

534,043. MEDICINAL PREPARATIONS FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, STIFF JOINTS AND MUSCLES AND MEDICINAL PREPARATIONS FOR THE REGULATION OF BOWELS. JOHN A. SMITH COMPANY, Oconomowoc, Wis.
Filed July 16, 1949, Serial No. 582,106. Published Sept. 5, 1950. Class 18.

534,044. MOULDS MADE OF PLASTIC MATERIALS AND USED FOR FREEZING EDIBLE FOODS AND BEVERAGES. CHEERIO TOYS & GAMES LIMITED, Toronto, Ontario, Canada.
Priority under Sec. 44(*d*). Canadian application filed June 9, 1949, Reg. No. N. S. 32,786.
Filed July 19, 1949, Serial No. 582,456. Published Aug. 22, 1950. Class 13.

534,045. BOOTS AND SHOES MADE PRINCIPALLY OF LEATHER BUT HAVING PARTS FORMED OF FABRIC AND RUBBER. C. H. HYER & SONS, Olathe, Kans.
Filed July 25, 1949, Serial No. 582,479. Published Aug. 22, 1950. Class 39.

534,046. BOOTS AND SHOES MADE PRINCIPALLY OF LEATHER BUT HAVING PARTS FORMED OF FABRIC AND RUBBER. C. H. HYER & SONS, Olathe, Kans.
Filed July 25, 1949, Serial No. 582,480. Published Aug. 22, 1950. Class 39.

534,047. CHILDREN'S SHOES. WEYENBERG SHOE MFG. COMPANY, Milwaukee, Wis.
Filed July 27, 1949, Serial No. 582,585. Published Aug. 22, 1950. Class 39.

534,048. LADIES' AND MISSES' COATS, SUITS, AND JACKETS. PHILIP SHLANSKY & BRO., INC., New York, N. Y.
Filed July 28, 1949, Serial No. 582,654. Published Aug. 22, 1950. Class 39.

534,049. INTEROFFICE AND INTERPLANT TELEPHONIC COMMUNICATION APPARATUS CONSISTING OF SPEAKERS, AMPLIFIERS, AND INTERCOMMUNICATING CIRCUITS THEREFOR. TALK-A-PHONE CO., Chicago, Ill.
Filed July 28, 1949, Serial No. 582,661. Published Aug. 22, 1950. Class 21.

534,050. CLAMPS FOR USE WITH RADIO AND TELEVISION ANTENNA. MARVIN J. BLAUGRUND, Cleveland, Ohio.
Filed July 30, 1949, Serial No. 582,718. Published Aug. 29, 1950. Class 21.

534,051. CHILD'S TOY IN THE NATURE OF A RABBIT OR BUNNY AND A CHILD'S SOFT PLAY BALL. CAMDEL, INCORPORATED, Camden, N. J.
Filed Aug. 5, 1949, Serial No. 583,028. Published Aug. 15, 1950. Class 22.

534,052. ELECTRICAL SOUND RECORDING AND REPRODUCING SETS ADAPTED FOR USE WITH A TELEPHONE. MOHAWK BUSINESS MACHINES CORPORATION, New York, N. Y.
Filed Aug. 6, 1949, Serial No. 583,105. Published Aug. 22, 1950. Class 21.

534,053. DOLLS. ED. SCHUSTER & CO., INCORPORATED, Milwaukee, Wis.
Filed Aug. 6, 1949, Serial No. 583,123. Published Aug. 22, 1950. Class 22.

534,054. ELECTRICALLY OPERATED AIR CONDITIONING UNITS—NAMELY, UNITS WHICH CIRCULATE AND FILTER THE AIR, GAS FIRED FURNACES, OIL BURNING FURNACES, AND COMBINATION AIR CONDITIONING AND HEATING UNITS, ETC. THE COROAIRE HEATER CORPORATION, doing business under the name and style of Hot Boy, Inc., Cleveland, Ohio.
Filed Aug. 8, 1949, Serial No. 583,145. Published Aug. 22, 1950. Class 34.

534,055. ELECTRICALLY OPERATED AIR CONDITIONING UNITS, ETC. THE COROAIRE HEATER CORPORATION, doing business as Hot Boy, Inc., Cleveland, Ohio.
Filed Aug. 8, 1949, Serial No. 583,146. Published Aug. 22, 1950. Class 34.

534,056. PRINTING AND LITHOGRAPHIC INKS. BARTA-GRIFFIN COMPANY, Worcester, Mass.
Filed Aug. 9, 1949, Serial No. 583,187. Published Aug. 22, 1950. Class 11.

534,057. GAMES AND GAME BOARDS HAVING DEFINITELY MOVABLE GAME PIECES. EDWARD T. WHITE, Union, W. Va.
Filed Aug. 10, 1949, Serial No. 583,305. Published Aug. 15, 1950. Class 22.

534,058. MEN'S, WOMEN'S, AND CHILDREN'S SHOES. BELGRADE SHOE CO., Auburn, Maine.
Filed Aug. 11, 1949, Serial No. 583,322. Published Aug. 22, 1950. Class 39.

534,059. SHOES AND SLIPPERS OF LEATHER OR CLOTH AND COMBINATIONS OF LEATHER AND CLOTH. FRANK BROTHERS FOOTWEAR, INC., New York, N. Y.
Filed Aug. 13, 1949, Serial No. 583,432. Published Aug. 22, 1950. Class 39.

534,060. RADIO TRANSMITTING SETS, RADIO-FREQUENCY TUNERS, AND ELECTRON TUBE OSCILLATORS. HAZELTINE ELECTRONICS CORPORATION, Little Neck, N. Y.
Filed Aug. 24, 1949, Serial No. 583,929. Published Aug. 22, 1950. Class 21.

534,061. EASTER LILY BULBS. MCHUTCHINSON & CO., New York, N. Y.
Filed Aug. 26, 1949, Serial No. 584,070. Published Aug. 29, 1950. Class 1.

534,062. BEACH AND GARDEN UMBRELLAS, AND OUTDOOR METAL FURNITURE INCLUDING TRAYS, TABLES, CHAIRS, AND CHAISES. THE FINKEL UMBRELLA FRAME COMPANY, INC., New York, N. Y.
Filed Aug. 31, 1949, Serial No. 584,273. Published Aug. 15, 1950. Class 32.

534,063. ELECTRIC POWER SUPPLY UNITS—NAMELY, DC TO AC, AC TO DC CONVERTERS AND TRANSFORMERS. CORNELL-DUBILIER ELECTRIC CORPORATION, South Plainfield, N. J.
Filed Sept. 1, 1949, Serial No. 584,322. Published Aug. 22, 1950. Class 21.

534,064. CORRESPONDENCE AND MAILING ENVELOPES. SHEPPARD ENVELOPE COMPANY, Worcester, Mass.
Filed Sept. 2, 1949, Serial No. 584,420. Published Aug. 1, 1950. Class 37.

534,065. MEDICINAL EYE CLEANING SOLUTION. CARLOS C. MARROQUIN, doing business as Nova Laboratories, San Antonio, Tex.
Filed Sept. 10, 1949, Serial No. 584,686. Published Sept. 5, 1950. Class 18.

534,066. HOSIERY AND LADIES' UNDERWEAR. ASSOCIATED KNITTERS, INC., Reading, Pa.
Filed Sept. 13, 1949, Serial No. 584,747. Published Aug. 22, 1950. Class 39.

534,067. MEN'S LEATHER BOOTS AND SHOES. JOHN A. FRYE SHOE COMPANY, INC., Marlboro, Mass.
Filed Sept. 13, 1949, Serial No. 584,760. Published Aug. 22, 1950. Class 39.

534,068. MEN'S LEATHER BOOTS AND SHOES. JOHN A. FRYE SHOE COMPANY, INC., Marlboro, Mass.
Filed Sept. 13, 1949, Serial No. 584,761. Published Aug. 29, 1950. Class 39.

534,069. GIRDLES, CORSELETS, BRASSIÈRES, AND CORSETS. EVEN-PUL FOUNDATIONS, INC., New York, N. Y.
Filed Sept. 14, 1949, Serial No. 584,804. Published Aug. 22, 1950. Class 39.

534,070. BRASSIÈRES, GIRDLES, CORSELETS, AND FOUNDATION GARMENTS. EVEN-PUL FOUNDATIONS, INC., New York, N. Y.
Filed Sept. 14, 1949, Serial No. 584,805. Published Aug. 22, 1950. Class 39.

534,071. CHILDREN'S AND INFANTS' SWEATERS. CLOVERDALE KNITWEAR CORPORATION, Brooklyn, N. Y.
Filed Sept. 15, 1949, Serial No. 584,856. Published Aug. 22, 1950. Class 39.

534,072. BOOTEES, WHICH MAY ALSO BE USED AS BED SOCKS, FOR MEN, WOMEN, AND CHILDREN. THE PERRY KNITTING COMPANY, Perry, N. Y.
Filed Sept. 16, 1949, Serial No. 584,921. Published Aug. 22, 1950. Class 39.

534,073. MAGNESIUM SILICATE. SIERRA TALC & CLAY CO., Los Angeles, Calif.
Filed Sept. 16, 1949, Serial No. 584,928. Published Sept. 5, 1950. Class 6.

534,074. BUSINESS MACHINES—NAMELY, BOOKKEEPING MACHINES, ACCOUNTING MACHINES, AND PARTS FOR SAID MACHINES. BURROUGHS ADDING MACHINE COMPANY, Detroit, Mich.
Filed Sept. 17, 1949, Serial No. 584,966. Published Sept. 5, 1950. Class 26.

534,075. WIND DRIVEN APPARATUS, HAVING IN COMBINATION A TRANSMITTER AND RECEIVER, USED FOR INDICATING THE DIRECTION AND VELOCITY OF THE WIND. BENDIX AVIATION CORPORATION, Detroit, Mich.
Filed Sept. 19, 1949, Serial No. 585,010. Published Aug. 15, 1950. Class 26.

534,076. WOMEN'S HOSIERY. GLEN RAVEN KNITTING MILLS, INC., Glen Raven, N. C.
Filed Sept. 20, 1949, Serial No. 585,064. Published Aug. 22, 1950. Class 39.

534,077. PRINTING INK ESPECIALLY ADAPTED FOR APPLICATION TO VINYL FILMS. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed Sept. 20, 1949, Serial No. 585,069. Published Aug. 29, 1950. Class 11.

534,078. HOSIERY. S. D. ARROWOOD CO., INC., New York, N. Y.
Filed Sept. 21, 1949, Serial No. 585,098. Published Aug. 29, 1950. Class 39.

534,079. KNITTED GLOVES AND KNITTED MITTENS. GLOVERSVILLE KNITTING COMPANY, Gloversville, N. Y.
Filed Sept. 27, 1949, Serial No. 585,376. Published Aug. 22, 1950. Class 39.

534,080. CHILDREN'S PAJAMAS AND NIGHTGOWNS. JUVENILE UNDERWEAR CORP., Brooklyn, N. Y.
Filed Sept. 27, 1949, Serial No. 585,380. Published Aug. 22, 1950. Class 39.

534,081. TOY CARDBOARD COLLAPSIBLE TRUCKS. RADIO CORPORATION OF AMERICA, New York, N. Y.
Filed July 14, 1949, Serial No. 585,473. Published Aug. 15, 1950. Class 22.

534,082. ELECTRIC MOTORS. WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pa., and Lima, Ohio.
Filed Oct. 1, 1949, Serial No. 585,692. Published Aug. 22, 1950. Class 21.

534,083. WOOD PRESERVER. PHOENIX OIL COMPANY, INC., August, Ga.
Filed Oct. 3, 1949, Serial No. 585,720. Published Sept. 5, 1950. Class 6.

534,084. CHILDREN'S SHOES. JORDAN MARSH COMPANY, Boston, Mass.
Filed Oct. 4, 1949, Serial No. 585,753. Published Aug. 22, 1950. Class 39.

534,085. WATCH BRACELETS. GEMEX COMPANY, Union, N. J.
Filed Oct. 5, 1949, Serial No. 585,791. Published Sept. 5, 1950. Class 28.

534,086. PLASTIC COVERED ELECTRIC WIRE. CHESTER CABLE CORP., Chester, N. Y.
Filed Sept. 16, 1949, Serial No. 585,887. Published Aug. 22, 1950. Class 21.

534,087. METAL SKEWERS. Mathilde E. HEUCK, doing business as M. E. Heuck, Cincinnati, Ohio.
Filed Sept. 15, 1949, Serial No. 585,977. Published Aug. 22, 1950. Class 13.

534,088. TENTS, WAGON AND TRUCK COVERS, AND TARPAULINS. LITTLE ROCK TENT AND AWNING COMPANY, Little Rock, Ark.
Filed Oct. 11, 1949, Serial No. 586,094. Published Aug. 22, 1950. Class 50.

534,089. SHOES AND MOCCASINS. G. H. BASS & CO., Wilton, Maine.
Filed Oct. 14, 1949, Serial No. 586,265. Published Aug. 22, 1950. Class 39.

534,090. DRY, MIXED CONCRETE. ALEXANDER CLIFTON MOWBRAY, doing business as The Drycrete Concrete Co., Greenville and Flomaton, Ala.
Filed Oct. 14, 1949, Serial No. 586,298. Published Aug. 15, 1950. Class 12.

534,091. ELECTRIC SOLDERING IRONS. THE STANLEY WORKS, New Britain, Conn.
Filed Oct. 15, 1949, Serial No. 586,368. Published Aug. 22, 1950. Class 21.

534,092. LADIES' UNDERWEAR—NAMELY, SLIPS, PANTIES AND VESTS; MEN'S PAJAMAS AND UNDERWEAR—NAMELY, SHIRTS, SHORTS, AND BRIEFS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed Oct. 18, 1949, Serial No. 586,491. Published Aug. 15, 1950. Class 39.

534,093. INSECTICIDE. FOOD MACHINERY AND CHEMICAL CORPORATION, New York, N. Y.
Filed Oct. 19, 1949, Serial No. 586,531. Published Sept. 5, 1950. Class 6.

534,094. FLUORESCENT LIGHTING FIXTURES AND PARTS THEREOF—NAMELY, CHASSIS AND END PLATES. DAY-BRITE LIGHTING, INC., St. Louis, Mo.
Filed Oct. 19, 1949, Serial No. 586,565. Published Aug. 22, 1950. Class 21.

534,095. MOTOR GENERATORS. CARTER MOTOR COMPANY, Chicago, Ill.
Filed Oct. 22, 1949, Serial No. 586,680. Published Aug. 29, 1950. Class 21.

534,096. TELEVISION RADIO RECEIVING SETS. CALBERT ENGINEERING AND ELECTRONICS COMPANY, Los Angeles, Calif.
Filed Oct. 24, 1949, Serial No. 586,726. Published Aug. 22, 1950. Class 21.

534,097. LIQUID PREPARATION USED IN THE TREATMENT OF ATHLETE'S FOOT, POISON IVY, INSECT BITES, AND FOOT ITCH. THE SORBOL COMPANY, Mechanicsburg, Ohio.
Filed Oct. 24, 1949, Serial No. 586,771. Published Sept. 5, 1950. Class 18.

534,098. SHOES. SPALSBURY-STEIS SHOE COMPANY, Fredericktown, Mo.
Filed Oct. 24, 1949, Serial No. 586,773. Published Aug. 22, 1950. Class 39.

534,099. SANDWICH GRILL. ARROW ALUMINUM PRODUCTS CO., INC., New York, N. Y.
Filed Oct. 29, 1949, Serial No. 587,003. Published Sept. 5, 1950. Class 13.

534,100. RADIO CONTACT PINS, RADIO CONTACT PRONGS, CONTACT POINTS, CONTACT JACKS, TERMINALS, AND SLEEVE ATTACHMENTS FOR OUTLET CAPS. THE BEAD CHAIN MANUFACTURING COMPANY, Bridgeport, Conn.
Filed Oct. 31, 1949, Serial No. 587,070. Published Aug. 29, 1950. Class 21.

534,101. COAXIAL CABLES, ELECTRICAL CONNECTORS, AND INSULATED WIRES AND CABLES, AND RADIO AND TELEVISION ANTENNAE. PRODUCT DEVELOPMENT COMPANY, Arlington, N. J.
Filed Oct. 31, 1949, Serial No. 587,087. Published Aug. 29, 1950. Class 21.

534,102. REMEDY FOR NEURALGIA, SCIATICA, RHEUMATISM, LUMBAGO, STRAINS AND SPRAINS, HEADACHE, TOOTHACHE, COLIC, COLD IN HEAD, BITES OF INSECTS, AND CHILBLAINS. JOHN W. M. CLARK, doing business under the name of John W. M. Clark Co., Athol, Mass.
Filed Nov. 4, 1949, Serial No. 587,317. Published Sept. 5, 1950. Class 18.

534,103. NON-ALCOHOLIC AND NON-NARCOTIC ANTITUSSIVE. JAMES J. PASH, doing business as Pediatric Drug Co., Somerville, Mass.
Filed Nov. 4, 1949, Serial No. 587,353. Published Sept. 5, 1950. Class 18.

534,104. LIQUID COUGH PREPARATION. VICK CHEMICAL COMPANY, New York, N. Y.
Filed Nov. 7, 1949, Serial No. 587,450. Published Sept. 5, 1950. Class 18.

534,105. LADIES' AND MISSES' DRESSES, JACKETS, BLOUSES, AND COATS. JOSEPH LEVAY, INC., New York, N. Y.
Filed Nov. 8, 1949, Serial No. 587,493. Published Aug. 29, 1950. Class 39.

534,106. FLUSH VALVE GUIDES. OTTO STADER, trading as Ardmore Products Company, Ardmore, Pa.
Filed Nov. 10, 1949, Serial No. 587,660. Published Sept. 5, 1950. Class 13.

534,107. CHILDREN'S SHOES. ALBERT H. WEINBRENNER CO., Milwaukee, Wis.
Filed Nov. 12, 1949, Serial No. 587,697. Published Aug. 22, 1950. Class 39.

534,108. HYDROGENATED FATTY ACIDS OF FATS AND OILS AND HYDROGENATED GLYCERIDES OF FATS AND OILS. ARCHER-DANIELS-MIDLAND COMPANY, Minneapolis, Minn., doing business as The Werner G. Smith Company, Cleveland, Ohio.
Filed Dec. 13, 1949, Serial No. 589,238. Published Sept. 12, 1950. Class 6.

534,109. COMPOUND OF BARIUM SULPHATE USED IN CONNECTION WITH X-RAY EXAMINATIONS. THE KELLEY-KOETT MANUFACTURING COMPANY, Covington, Ky.
Filed Dec. 6, 1949, Serial No. 588,864. Published Sept. 5, 1950. Class 18.

534,110. GAS COOKING STOVES AND RANGES. DETROIT-MICHIGAN STOVE COMPANY, Detroit, Mich.
Filed Dec. 7, 1949, Serial No. 589,134. Published Aug. 15, 1950. Class 34.

534,111. SHOES. EUGENE H. NEUWALD, New York, N. Y.
Filed Dec. 13, 1949, Serial No. 589,269. Published Aug. 22, 1950. Class 39.

534,112. PHOTOGRAPHIC ENLARGERS, AND PARTS THEREOF. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y.
Filed Dec. 28, 1949, Serial No. 590,015. Published Aug. 15, 1950. Class 26.

534,113. ELECTRICALLY OPERATED FLOOR POLISHING MACHINES. BOYLE-MIDWAY INC., New York, N. Y.
Filed Jan. 14, 1950, Serial No. 590,879. Published Aug. 22, 1950. Class 21.

534,114. WOVEN COTTON FABRICS—NAMELY, COTTON FLANNELS. SIMMONS COMPANY, New York, N. Y.
Filed Feb. 2, 1950, Serial No. 591,871. Published Aug. 29, 1950. Class 42.

534,115. PIECE GOODS OF RAYON, SILK, COTTON, WOOL, AND MIXTURES THEREOF. OSCAR HAYMAN FABRICS, INC., New York, N. Y.
Filed Feb. 9, 1950, Serial No. 592,205. Published Aug. 29, 1950. Class 42.

534,116. ELECTRICALLY DRIVEN MACHINES FOR CUTTING OR GRINDING GARBAGE OR THE LIKE. THE SCOTT & FETZER COMPANY, Cleveland, Ohio.
Filed Feb. 23, 1950, Serial No. 592,945. Published Aug. 22, 1950. Class 21.

534,117. FLUIDS FOR PARENTERAL USE—NAMELY, WATER FOR INJECTION, ETC. BAXTER LABORATORIES, INC., Morton Grove, Ill.
Filed Mar. 1, 1950, Serial No. 593,212. Published Sept. 5, 1950. Class 18.

534,118. FILES. HELLER BROTHERS COMPANY, Newark, N. J.
Filed Apr. 8, 1950, Serial No. 595,460. Published Aug. 1, 1950. Class 23.

Service Marks

534,119. GRAIN AND MILLING SERVICES—NAMELY, RECEIVING, STORING, HANDLING, SHIPPING, ETC. F. H. PEAVEY & COMPANY, Minneapolis, Minn.
Filed July 5, 1947, Serial No. 526,908. Published Aug. 8, 1950. Class 105.

534,120. GRAIN AND MILLING SERVICES—NAMELY, RECEIVING, STORING, HANDLING, SHIPPING, ETC. F. H. PEAVEY & COMPANY, Minneapolis, Minn.
Filed July 5, 1947, Serial No. 526,939. Published Aug. 8, 1950. Class 105.

534,121. INSPECTION, MAINTENANCE, AND REPAIR OF AUTOMOTIVE EQUIPMENT. JOE. SIMPKINS, INC., Wellston, Mo.
Filed Nov. 24, 1947, Serial No. 542,178. Published Aug. 22, 1950. Class 103.

534,122. INCOME TAX ACCOUNTING SERVICES—NAMELY, THE PREPARATION AND FILING OF INCOME TAX RETURNS AND THE MAINTAINING OF CLIENTS' BOOKS. G. A. MCNEIL, doing business as Income Tax Service Co., Alameda, Calif.
Filed Dec. 27, 1947, Serial No. 545,587. Published Aug. 22, 1950. Class 101.

534,123. STORING FURS AND FUR-TRIMMED GARMENTS. H. WASBERS YORK CITY LAUNDRY COMPANY, York, Pa.
Filed Feb. 7, 1949, Serial No. 573,449. Published Aug. 22, 1950. Class 105.

534,124. ENTERTAINMENT SERVICE—NAMELY, RELATING CHILDREN'S FICTION SUCH AS FAIRY TALES AND EDUCATIONAL STORIES ON RADIO AND TELEVISION PROGRAMS, AND IN SOUND MOTION PICTURES. EMMA JANE DRIPPS, Detroit, Mich.
Filed Feb. 8, 1949, Serial No. 573,478. Published Aug. 22, 1950. Class 107.

534,125. ALLOY COATING THE METAL SURFACES OF TYPE CASTING MACHINE PARTS, SUCH AS MOLDS AND SPACEBANDS, TO PREVENT THE ADHESION TO SAID SURFACES OF MOLTEN TYPE METAL. MERGENTHALER LINOTYPE COMPANY, Brooklyn, N. Y.
Filed June 2, 1949, Serial No. 579,881. Published Aug. 22, 1950. Class 106.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

534,126. (CLASS 15. OILS AND GREASES.) SUNSET OIL COMPANY, Los Angeles, Calif. Original filed, act of 1905, Sept. 11, 1945; amended to application under act of 1946, Principal Register, Aug. 1, 1947; amended to application, Supplemental Register, Mar. 13, 1950, Serial No. 488,290.

X-D

FOR MOTOR LUBRICATING OILS.
Claims use since July 3, 1945.

534,127. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. M. C. MANUFACTURING CORP., assignee of Car-Mac Mfg. Co., Inc., Binghamton, N. Y. Original filed, act of 1905, Feb. 20, 1947; amended to application under act of 1946, Supplemental Register, May 10, 1949, Serial No. 517,829.

Tractor JUNIOR

FOR CHILD'S TRICYCLE.
Claims use since Jan. 23, 1947.

534,128. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ROSCOE FOWLER, doing business as Sturdee Steel Products, Los Angeles, Calif. Original filed, act of 1905, Mar. 14, 1947; amended to application under act of 1946, Supplemental Register, Nov. 26, 1948, Serial No. 519,009.

STURDEE

FOR BUILDERS' HARDWARE—NAMELY, MOUNTING HARDWARE FOR GARAGE DOORS, CABINET HINGES, AND DOOR PULLS, ALL FABRICATED OF METAL.
Claims use since June 1, 1938.

534,129. (CLASS 51. COSMETICS AND TOILET PREPARATIONS.) JACK B. NETHERCUTT, doing business as Nethercutt Laboratories, Santa Monica, Calif. Original filed, act of 1905, May 12, 1947; amended to application under act of 1946, Supplemental Register, Feb. 24, 1950, Serial No. 522,283.

MIDTONE

FOR COSMETICS—NAMELY, FACE POWDER AND POWDER BASE.
Claims use since Apr. 11, 1947.

534,130. (CLASS 32. FURNITURE AND UPHOLSTERY.) FERDINAND J. TILLMAN, St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 5, 1947; amended to application, Supplemental Register, Aug. 4, 1949, Serial No. 533,645.

TILLMAN Quality

FOR VENETIAN BLINDS.
Claims use since Jan. 3, 1940.

534,131. (CLASS 12. CONSTRUCTION MATERIALS.) THE LEHON COMPANY, Chicago, Ill. Filed Sept. 24, 1947, Serial No. 535,572.

So good that only the best dealers sell it.

Applicant claims ownership of Registration No. 240,306.
FOR ASPHALT ROOFING IN ROLLS AND SHEETS, ASPHALT ROOFING SHINGLES, ASPHALT ROOFING STRIPS, WATERPROOF INSULATING AND SHEATHING PAPER, WATERPROOF INSULATING AND SHEATHING FABRICS, PLASTIC ROOF COATINGS (MADE OF ASPHALT, ASBESTOS FIBER, PULVERIZED LIMESTONE AND SOLVENT, MIXED INTO A PLASTIC MASS AND APPLIED WITH A TROWEL TO ROOF SURFACES AND FLASHINGS TO PRESERVE THEM AND PREVENT LEAKS), MASTIC FLOORING (MADE OF ASPHALT, CLAY, PORTLAND CEMENT, SAND AND WATER, APPLIED TO WORN AND RUTTED CONCRETE FLOORS TO RENEW SMOOTH SURFACE), MASTIC BUILDING COMPOUNDS (MADE OF ASPHALT, ASBESTOS FIBER, AND SOLVENTS, USED TO FILL EXPANSION JOINTS AND CRACKS IN CONCRETE ROOF DECKS AND BRICK WALLS), ASPHALT FLOORING IN ROLLS (ASPHALT SATURATED AND COATED FELTS AND COTTON FABRICS USED AS FLOOR COVERINGS IN RAMPS AND AISLES, AND IN STALLS FOR ANIMALS ON EXHIBIT, ETC.)
Claims use since Oct. 7, 1925.

534,132. (CLASS 15. OILS AND GREASES.) UNION PETROLEUM COMPANY, Lexington, Nebr., and Council Bluffs, Iowa. Original filed, act of 1946, Principal Register, Sept. 25, 1947; amended to application, Supplemental Register, Oct. 15, 1948, Serial No. 535,775.

TRACTO

FOR LUBRICATING OILS AND GREASES.
Claims use since January 1940.

534,133. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Original filed, act of 1946, Principal Register, Oct. 7, 1947; amended to application, Supplemental Register, Jan. 7, 1950, Serial No. 537,035.

WHITE AS SNOW
SOFT AS DOWN

Applicant claims ownership of Registration No. 241,007.
FOR TOILET PAPER, PAPER TOWELS, PAPER NAPKINS, PAPER DOILIES, PAPER TABLECLOTHS, AND TISSUE PAPER.
Claims use since Jan. 10, 1927.

534,134. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SAUL COHEN, doing business as Raynard Optical Co., Brooklyn, N. Y., assignee, by mesne assignments, of Raynard Optical Co., a firm. Original filed, act of 1946, Principal Register, Oct. 10, 1947; amended to application, Supplemental Register, July 20, 1948, Serial No. 537,423.

"For eyes that care, The finest in sunglasses by RAYNARD"

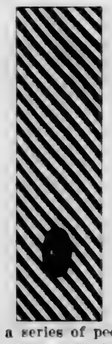
FOR OPTICAL GOODS—NAMELY, SUNGLASSES.
Claims use since June 14, 1946.

534,135. (CLASS 12. CONSTRUCTION MATERIALS.) ELMOND F. GAU, doing business as United States Stone Company, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Dec. 10, 1947; amended to application, Supplemental Register, Feb. 9, 1949, Serial No. 543,915.

Genuine AUSTINSTONE

FOR CUT STONE—NAMELY, A VERY FINE QUALITY OF OOLITIC LIME STONE COMMONLY USED FOR BUILDING STONE.
Claims use since July 15, 1947.

534,136. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE FULLER BRUSH COMPANY, Hartford, Conn. Original filed, act of 1946, Principal Register, Feb. 6, 1948; amended to application, Supplemental Register, Mar. 1, 1950, Serial No. 548,952.



The mark comprises a series of peculiarly configurated parallel bands arranged diagonally, together with an oval design.
FOR COMBS.
Claims use since February 1946.

534,137. (CLASS 39. CLOTHING.) SHOE CORPORATION OF AMERICA, Columbus, Ohio. Original filed, act of 1946, Principal Register, Mar. 1, 1948; amended to application, Supplemental Register, Oct. 17, 1949, Serial No. 550,955.

Flexible WALKERS

FOR SHOES.
Claims use since October 1947.

534,138. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RAYTRON CORPORATION, Hoboken, N. J. Original filed, act of 1946, Principal Register, Apr. 2, 1948; amended to application, Supplemental Register, June 28, 1950, Serial No. 553,746.

Geb-Liter

FOR QUICK-ACTION STARTER SWITCHES FOR FLUORESCENT LAMPS.
Claims use since May 22, 1946.

534,139. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARMSTRONG PAINT & VARNISH WORKS, Chicago, Ill. Original filed, act of 1946, Principal Register, May 3, 1948; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 556,059.

BIG VALUE

FOR READY-MIXED PAINT SOLD IN LIQUID FORM, VARNISHES AND PAINT ENAMELS.
Claims use since Sept. 23, 1932.

534,140. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARMSTRONG PAINT & VARNISH WORKS, Chicago, Ill. Original filed, act of 1946, Principal Register, May 3, 1948; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 556,066.

Super-Value

FOR READY-MIXED PAINT SOLD IN LIQUID FORM, VARNISHES AND PAINT ENAMELS.
Claims use since 1937.

534,141. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARMSTRONG PAINT & VARNISH WORKS, Chicago, Ill. Original filed, act of 1946, Principal Register, May 3, 1948; amended to application, Supplemental Register, Sept. 20, 1950. Serial No. 556,067.

XTRA-VALUE

FOR READY-MIXED PAINT SOLD IN LIQUID FORM, VARNISHES AND PAINT ENAMELS.
Claims use since 1934.

534,142. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALTHEIMER & BAER, INC., Chicago, Ill. Original filed, act of 1946, Principal Register, June 12, 1948; amended to application, Supplemental Register, Sept. 1, 1949, Serial No. 559,080.

GUILD

FOR COOKING UTENSILS MADE OF BASE METAL OR METAL HOLLOWWARE—NAMELY, SAUCE POTS, SAUCE PANS, SKILLETS, GRIDDLES, FRENCH FRYERS AND COFFEE MAKERS.
Claims use since Apr. 10, 1946.

534,143. (CLASS 12. CONSTRUCTION MATERIALS.) THE GENERAL CRUSHED STONE CO., Easton, Pa. Original filed, act of 1946, Principal Register, July 1, 1948; amended to application, Supplemental Register, Sept. 6, 1950, Serial No. 560,558.

PAK-IT

FOR ASPHALTIC CONCRETE AND A MIXTURE OF ASPHALT AND STONE SCREENING FOR USE FOR PATCHING SIDEWALKS, DRIVEWAYS, SURFACING MATERIALS AND THE LIKE.
Claims use since June 17, 1948.

534,144. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) THE GLOLITE CORPORATION, Chicago, Ill. Original filed, act of 1946, Principal Register, July 24, 1948; amended to application, Supplemental Register, Sept. 27, 1950, Serial No. 562,135.

Santa-Glo

FOR CHRISTMAS TREE DECORATIONS, WALL PLAQUES AND TABLE AND MANTLE DECORATIONS IN THE FORM OF A SANTA CLAUS FIGURINE OF TRANSLUCENT PLASTIC AND ILLUMINATED BY AN ELECTRIC LAMP.
Claims use since Jan. 15, 1948.

534,145. (CLASS 21. ELECTRICAL APPARATUS, MACHINES AND SUPPLIES.) HAARTZ-MASON, INC., Watertown, Mass. Original filed, act of 1946, Principal Register, Sept. 16, 1948; amended to application, Supplemental Register, Sept. 14, 1950, Serial No. 565,262.

STRONGHOLD

FOR ELECTRICAL INSULATORY RUBBER TAPE OR SPLICING COMPOUNDS.
Claims use since Aug. 13, 1948.

534,146. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE OHIO BRONZE POWDER COMPANY, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Sept. 23, 1948; amended to application, Supplemental Register, Nov. 23, 1949, Serial No. 565,716.

FOR BRONZE POWDER FOR USE IN PAINTS.
Claims use since Sept. 1, 1928.

534,147. (CLASS 39. CLOTHING.) THE H. C. GODMAN COMPANY, Columbus, Ohio. Original filed, act of 1946, Principal Register, Oct. 28, 1948; amended to application, Supplemental Register, June 20, 1950, Serial No. 567,770.

The picture of the nurse is fanciful.
FOR SHOES CONSTRUCTED OF LEATHER.
Claims use since Jan. 1, 1935.

534,148. (CLASS 2. RECEPTACLES.) LES PARFUMS DE DANA, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 3, 1948; amended to application, Supplemental Register, Sept. 9, 1950, Serial No. 569,864.

CUIR du CANADA

FOR COMPACTS AND LIPSTICK HOLDERS, SOLD EMPTY IN THE TRADE.
Claims use since Nov. 26, 1948.

534,149. (CLASS 39. CLOTHING.) LOV-E BRASSIERE COMPANY, doing business under the name Lov-E Studios of Hollywood, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 14, 1949; amended to application, Supplemental Register, July 13, 1950, Serial No. 572,181.

Personal Pattern

FOR BRASSIÈRES.
Claims use since Dec. 16, 1948.

534,150. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) KELLOGG SWITCHBOARD AND SUPPLY COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 27, 1949; amended to application, Supplemental Register, Sept. 9, 1950, Serial No. 572,904.

EZSTRIP

FOR INSULATED WIRE FOR INTERCONNECTING ELECTRICAL DEVICES.
Claims use since Sept. 14, 1948.

534,151. (CLASS 51. COSMETICS AND TOILET PREPARATIONS.) HORACE W. CROUCH, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Feb. 19, 1949; amended to application, Supplemental Register, Aug. 10, 1950, Serial No. 574,136.

Continental Laboratories'

BLUE•BOTTLE

Formula

FOR TOOTH POWDER.
Claims use since Feb. 9, 1949.

534,152. (CLASS 2. RECEPTACLES.) FRANCIS E. REEFE, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 7, 1949; amended to application, Supplemental Register, Aug. 9, 1950, Serial No. 576,770.

HY & DRY

FOR RUBBER SOAP DISH SOLD EMPTY IN THE TRADE.
Claims use since Oct. 1, 1948.

534,153. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THEODORE J. GOON, Corona Del Mar, Calif. Original filed, act of 1946, Principal Register, Apr. 19, 1949; amended to application, Supplemental Register, Aug. 17, 1950, Serial No. 577,383.

GOON-BONES

FOR CLAPPERS.
Claims use since Aug. 28, 1948.

534,154. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHANDLER HEIGHTS CITRUS GROWERS, Chandler Heights, Ariz. Original filed, act of 1946, Principal Register, May 2, 1949; amended to application, Supplemental Register, July 10, 1950, Serial No. 578,074.

PINAL

FOR FRESH CITRUS FRUITS.
Claims use since Nov. 20, 1948.

534,155. (CLASS 31. FILTERS AND REFRIGERATORS.) ALLISON-ERWIN COMPANY, Charlotte, N. C. Filed May 24, 1949, Serial No. 579,387.

Alwin

FOR ICE REFRIGERATORS FOR HOME USE.
Claims use since Jan. 8, 1948.

534,156. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NOVEL, INCORPORATED, Sparta, Wis. Original filed, act of 1946, Principal Register, June 2, 1949; amended to application, Supplemental Register, Aug. 7, 1950, Serial No. 579,883.

NOVELGLAZE

FOR GLAZE PAINTS ADAPTED TO GIVE THE EFFECT OF CHINA WHEN APPLIED TO CERAMICS OR THE LIKE.
Claims use since Dec. 9, 1948.

534,157. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NOVEL, INCORPORATED, Sparta, Wis. Original filed, act of 1946, Principal Register, June 2, 1949; amended to application, Supplemental Register, Aug. 7, 1950, Serial No. 579,884.

NOVELTEMPRA

FOR WATER-COLOR PAINTS ADAPTED TO GIVE THE EFFECT OF CHINA WHEN APPLIED WITH A GLAZE COATING TO CERAMICS OR THE LIKE.
Claims use since Dec. 9, 1948.

534,158. (CLASS 18. MEDICINES AND PHARMACEUTICAL PREPARATIONS.) HIGHTOWER LABORATORIES, Los Angeles, Calif. Filed July 21, 1949, Serial No. 582,307.

The drawing is lined for shading.
FOR MEDICINAL DOSAGES AND DIETARY SUPPLEMENTS FOR TREATMENT OF THE BLOOD, MUSCLES, BONES, SKIN, NERVOUS SYSTEM AND OTHER PARTS AND ORGANS OF THE HUMAN BODY—VIZ., VITAMIN SYRUP, VITAMINS, MINERALS AND HORMONES, VITAMIN EMULSIONS (FOR ENRICHMENT), MULTI-VITAMIN AND MINERAL TABLETS, MULTI-VITAMIN TABLETS, HIGH POTENCY MULTI-VITA-

MIN AND MINERAL TABLETS, VITAMIN B-COMPLEX TABLETS, SPECIAL HIGH POTENCY VITAMIN B-COMPLEX TABLETS, VITAMIN B-1 TABLETS, VITAMIN B-2 TABLETS, VITAMIN B-6 TABLETS, VITAMIN A CAPSULES, VITAMIN E CAPSULES, CALCIUM-PHOSPHORUS TABLETS WITH VITAMIN D, CALCIUM-PHOSPHORUS WAFERS WITH VITAMIN D, VITAMIN C (ASCORBIC ACID) TABLETS, VITAMIN A AND D TABLETS, VITAMIN D TABLETS, VITAMIN K CAPSULES, LIVER, YEAST AND IRON TABLETS, SPECIAL HIGH POTENCY VITAMINS, LIVER, YEAST AND IRON CAPSULES, VEGETABLE LAXATIVE TABLETS, BILE SALTS TABLETS, GARLIC TABLETS, KELP TABLETS, AMINO ACID BROTH (PROTEIN HYDROLYSATES), AMINO ACID WAFERS (PROTEIN HYDROLYSATES), LINIMENT; ALSO, FOR THE FOLLOWING NAMED MEDICINAL PREPARATIONS AND DIETARY SUPPLEMENTS FOR THE TREATMENT OF ANIMALS AND POULTRY—VIZ., AN AID FOR BREEDING (COMBINATION OILS, HORMONES, VITAMINS AND MINERALS), LINIMENT AND LEG ASTRINGENT.

Claims use since Feb. 1, 1946.

534,159. (CLASS 6. CHEMICALS AND CHEMICAL COMPOSITIONS.) CLARENCE C. GERARD, doing business as C. C. G. Products, Bay City, Mich. Original filed, act of 1946, Principal Register, Aug. 1, 1949; amended to application, Supplemental Register, Sept. 18, 1950, Serial No. 582,783.

Fleezoff

FOR INSECTICIDES USED ON DOMESTIC ANIMALS.

Claims use since July 19, 1949.

534,160. (CLASS 32. FURNITURE AND UPHOLSTERY.) ECLIPSE SLEEP PRODUCTS INC., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Aug. 5, 1949; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 583,035.

SPRINGWALL

FOR MATTRESSES.

Claims use since July 27, 1949.

534,161. (CLASS 52. DETERGENTS AND SOAPS.) LO-CALORY FOOD CORPORATION, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 27, 1949; amended to application, Supplemental Register, Aug. 24, 1950, Serial No. 584,141.

SPRA-SHAMPOO

FOR HAIR SHAMPOO.

Claims use since July 15, 1949.

534,162. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LEAR, INCORPORATED, Grand Rapids, Mich. Original filed, act of 1946, Principal Register, Sept. 1, 1949; amended to application, Supplemental Register, Sept. 13, 1950, Serial No. 584,336.

THE PILOT'S PREFERENCE

FOR RADIO BROADCAST AND BEACON RECEIVER INTENDED PRIMARILY FOR USE IN AIRCRAFT.

Claims use since 1941.

534,163. (CLASS 18. MEDICINES AND PHARMACEUTICAL PREPARATIONS.) VETERINARY SUPPLY CO., Millersburg, Ohio. Filed Sept. 13, 1949, Serial No. 585,976.

FOR TONIC AND MEDICINE FOR CATTLE AND LIVESTOCK.

Claims use since July 24, 1946.

534,164. (CLASS 39. CLOTHING.) STAR HAT AND CAP CO., INC., Chicago, Ill. Filed Aug. 22, 1949, Serial No. 587,140.

KIMBALL

FOR HATS AND CAPS.

Claims use since June 1, 1947.

534,165. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PARKER-KALON CORPORATION, New York, N. Y. Filed Oct. 4, 1949, Serial No. 589,615.

IF IT'S P-K IT'S O.K.

Applicant claims ownership of Registration No. 296,996.

FOR SCREWS—NAMELY, DRIVE SCREWS, SET SCREWS, SELF-TAPPING SCREWS, THUMB SCREWS, SOCKET SCREWS AND MACHINE SCREWS; NAILS; MASONRY NAILS; SCREWNAILS; DRIVE PINS; RIVETS; STUDS; WING-NUTS; CAP NUTS; EXPANSION BOLTS; EXPANSION SLEEVES; AND BOILER REPAIR PLUGS.

Claims use since June 1947.

534,166. (CLASS 6. CHEMICALS AND CHEMICAL COMPOSITIONS.) JET PRODUCTS CO., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 7, 1950; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 590,507.

ANTI-STALL

FOR LIQUID COMPOSITION TO BE POURED ON WET STALLED VEHICLE COMBUSTION MOTORS FOR ASSISTING IN STARTING THEM.

Claims use since Sept. 1, 1949.

TRADE-MARK REGISTRATIONS RENEWED

35,047. COMMERCIAL. Registered Sept. 18, 1900. Webster C. Ball, Cleveland, Ohio. Re-renewed Sept. 18, 1950, to The Webb C. Ball Watch Company, Chicago, Ill., a corporation of Ohio. WATCHES AND PORTABLE CLOCKS. Class 27.

35,513. PARAGON. Registered Dec. 4, 1900. Keuffel & Esser Company, New York, N. Y. Re-renewed Dec. 4, 1950, to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey. MATHEMATICAL AND DRAWING INSTRUMENTS. Class 26.

35,888. ENTONA. Registered Feb. 12, 1901. Frank Fuller, New York, N. Y. Re-renewed Feb. 12, 1951, to Entona Company, Hingham, Mass., a corporation of Massachusetts. SUPPOSITORIES. Class 18.

78,671. XDUCT. Registered July 5, 1910. American Circular Loom Company, Boston, Mass. Re-renewed July 5, 1950, to National Electric Products Corporation, Pittsburgh, Pa., a corporation of Delaware. METAL PIPES. Class 13.

80,329. "WINNER BRAND" AND DRAWING. Registered Dec. 6, 1910. Vette & Zuncker Packing Company. Re-renewed Dec. 6, 1950, to Rose Packing Company, Chicago, Ill., a corporation of Illinois. POTTED MEAT, HAM FLAVOR; POTTED MEAT, TONGUE FLAVOR; DEVILED MEAT, HAM FLAVOR; CORNED BEEF; CANNED CORN-BEEF HASH; ETC. Class 46.

80,437. SAMSON. Registered Dec. 20, 1910. The Peck, Stow & Wilcox Company, Southington, Conn., a corporation of Connecticut. Re-renewed Dec. 20, 1950. BIT BRACES, CHUCKS, AND CHUCK-JAWS. Class 23.

80,462. REX. Registered Dec. 27, 1910. Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Re-renewed Dec. 27, 1950, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. LAUNDRY STARCH. Class 6.

80,827. ESSEX MILLS. Registered Feb. 7, 1911. Brown Durrell Co., Boston, Mass. Re-renewed Feb. 7, 1951, to Brown Durrell Co., Cambridge, Mass., and New York, N. Y., a corporation of Massachusetts. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED SHIRTS, VESTS, DRAWERS, AND UNION SUITS. Class 39.

80,911. PLEXO. Registered Feb. 14, 1911. General Drug Company, New York, N. Y. Re-renewed Feb. 14, 1951, to Plexo Preparations, Inc., Long Island City, N. Y., a corporation of New York. TOILET CREAMS, TOILET WATERS, AND HAIR-TONICS. Class 51.

81,021. BELL BRAND. Registered Feb. 21, 1911. National Musical String Co., New Brunswick, N. J., a corporation of New Jersey. Re-renewed Feb. 21, 1951. STRINGS FOR MUSICAL INSTRUMENTS. Class 36.

267,584. REPRESENTATION OF WINGED MOTOR. Registered Feb. 25, 1930. C. & S. Clementson. Renewed Feb. 25, 1950, to Aktiebolaget Speedoil, Malmo-Limhamn, Sweden, a corporation organized under the laws of Sweden. LIGHT UPPER LUBRICATION OIL INTENDED TO BE MIXED WITH THE FUEL FOR INTERNAL-COMBUSTION ENGINES. Class 15.

270,446. CEREGUMIL. Registered May 6, 1930. Bernabe Fernandez Sanchez. Renewed May 6, 1950, to Maria Blanca Canivell y Pasqual, Malaga, Spain. TONIC AND TISSUE BUILDER. Class 18.

271,837. "A. B. C." ETC. AND DESIGN. Registered June 17, 1930. National Electric Products Corporation, Pittsburgh, Pa., a corporation of Delaware. Renewed June 17, 1950. ARMORED ELECTRIC CONDUCTORS OR CABLES. Class 21.

271,911. A. B. C. Registered June 17, 1930. National Electric Products Corporation, Pittsburgh, Pa., a corporation of Delaware. Renewed June 17, 1950. ARMORED ELECTRIC CONDUCTORS OR CABLES. Class 21.

272,348. "SENTRY" AND DRAWING. Registered July 8, 1930. Robert Alexander Bachmann, doing business as The Sanitube Company. Renewed July 8, 1950, to The Sanitube Company, Newport, R. I., a corporation of Rhode Island. A MEDICINAL OINTMENT FOR USE AS A PROPHYLACTIC AGAINST SOCIAL DISEASES. Class 18.

273,183. NEUTRALOID. Registered July 22, 1930. The Du Bois Soap Co. Renewed July 22, 1950, to The Du Bois Company, Cincinnati, Ohio, a corporation of Ohio. PREPARATION FOR CLEANING TERRAZZO, MARBLE, TILE, ETC. Class 52.

274,046. TANEXTRA. Registered Aug. 19, 1930. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana. Renewed Aug. 19, 1950. COMBINATION RUBBER AND LEATHER SHOES AND COMPOSITION SOLES FOR SHOES. Class 39.

274,189. "DR. ROBERT'S FEMINAID" ETC. AND DESIGN. Registered Aug. 19, 1930. Robert S. Scher, Baltimore, Md. Renewed Aug. 19, 1950. MEDICINE FOR THE RELIEF OF ILLNESS PECULIAR TO WOMEN. Class 18.

274,290. "NORTHLITE" AND DRAWING. Registered Aug. 26, 1930. The New Era Milling Company, Arkansas City, Kans., a corporation of Kansas. Renewed Aug. 26, 1950. WHEAT FLOUR. Class 46.

274,291. "WHITE ROLL" AND DESIGN. Registered Aug. 26, 1930. The New Era Milling Company, Arkansas City, Kans., a corporation of Kansas. Renewed Aug. 26, 1950. WHEAT FLOUR. Class 46.

274,361. PAYMASTER. Registered Aug. 26, 1930. Plainview Cotton Oil Co., Inc., Plainview, Tex., assignor to Anderson-Clayton Industries, Inc. Renewed Aug. 26, 1950, to Anderson, Clayton & Co., Houston, Tex., a corporation of Delaware. FEEDS FOR DOMESTIC ANIMALS AND POULTRY. Class 46.

274,369. KWIKGRO. Registered Aug. 26, 1930. E. Rauh & Sons Fertilizer Company, Indianapolis, Ind., a corporation of Indiana. Renewed Aug. 26, 1950. FERTILIZERS. Class 10.

274,405. BROWN DERBY. Registered Aug. 26, 1930. Daigger Corporation. Renewed Aug. 26, 1950, to Chocolate Products Company, Chicago, Ill., a corporation of Illinois. NONALCOHOLIC MALTLESS CHOCOLATE BEVERAGE SOLD AS A SOFT DRINK, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. Class 45.

274,647. "SAMSON STEEL SHOT" ETC. AND DRAWING. Registered Sept. 2, 1930. Steel Shot & Grit Co., Amesbury, Mass., and Pittsburgh, Pa., a corporation of Massachusetts. Renewed Sept. 2, 1950. ABRASIVE STEEL SHOT. Class 4.

274,689. "CHICAGO PNEUMATIC CP" AND DESIGN. Registered Sept. 2, 1930. Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey. Renewed Sept. 2, 1950. PNEUMATIC RIVETING, CHIPPING, CAULKING, AND STONE HAMMERS; ETC. Class 23.

274,703. AMOUR SAUVAGE. Registered Sept. 2, 1930. Ybry, Inc. Renewed Sept. 2, 1950, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. PERFUMES AND TOILET WATER, FACE POWDERS, TALCUM POWDERS, FACE CREAMS, ETC. Class 51.

274,719. CALODORANT. Registered Sept. 2, 1930. Standard Oil Company of California. Renewed Sept. 2, 1950, to Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. VOLATILE ODORANT. Class 6.

274,723. "RACEAWAY" AND DESIGN. Registered Sept. 2, 1930. Saginaw Stamping & Tool Company. Renewed Sept. 2, 1950, to Saginaw Products Corporation, Saginaw, Mich., a corporation of Michigan. CONVEYOR TROLLEY ROLLER TURNS, CHAIN ROLLERS, CONVEYOR TROLLEY WHEELS, ETC. Class 23.

274,774. "LUXOR" AND DESIGN. Registered Sept. 9, 1930. E. B. Meyrowitz, Inc., New York, N. Y., a corporation of New York. Renewed Sept. 9, 1950. GOGGLES AND EYE PROTECTORS. Class 26.

274,831. SILVER PLUME. Registered Sept. 9, 1930. The New Era Milling Company, Arkansas City, Kans., a corporation of Kansas. Renewed Sept. 9, 1950. WHEAT FLOUR. Class 46.

274,834. REPRESENTATION OF KING ALBERT AND DRAWING. Registered Sept. 9, 1930. Jno. H. Swisher & Son, Inc., Jacksonville, Fla., a corporation of Ohio. Renewed Sept. 9, 1950. CIGARS. Class 17.

274,847. "LUSTIG'S CO-ED FOOTWEAR" AND DESIGN. Registered Sept. 9, 1930. Lustig's. Renewed Sept. 9, 1950, to Lustig's Inc., Youngstown, Ohio, a corporation of Ohio. BOOTS AND SHOES MADE OF LEATHER OR FABRIC OR OF A COMBINATION OF LEATHER AND FABRIC. Class 39.

274,933. "STEWART'S" ETC. AND DESIGN LINED FOR ORANGE. Registered Sept. 9, 1930. Stewart's Root Beer Inc. Renewed Sept. 9, 1950, to Stewart's Root Beer, Inc., Mansfield, Ohio, a corporation of Ohio. POPPED AND SALTED POP CORN AND POP CORN IN ITS NATURAL STATE. Class 46.

274,949. "STEWART'S" ETC. AND DESIGN LINED FOR ORANGE. Registered Sept. 9, 1930. Stewart's Root Beer Inc. Renewed Sept. 9, 1950, to Stewart's Root Beer, Inc., Mansfield, Ohio, a corporation of Ohio. ROOT BEER AND ROOT-BEER CONCENTRATE. Class 45.

275,172. KING ALBERT. Registered Sept. 16, 1930. Jno. H. Swisher & Son, Inc., Jacksonville, Fla., a corporation of Ohio. Renewed Sept. 16, 1950. CIGARS. Class 17.

275,260. SILVER KING. Registered Sept. 16, 1930. Republic Fuel Co., Bay City, Mich., a corporation of Michigan. Renewed Sept. 16, 1950. COAL. Class 1.

275,403. SEWHANDY. Registered Sept. 23, 1930. The Standard Sewing Machine Company, Cleveland, Ohio. Renewed Sept. 23, 1950, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. SEWING MACHINES AND SEWING-MACHINE NEEDLES. Class 23.

275,793. NUREX. Registered Sept. 30, 1930. National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio. Renewed Sept. 30, 1950. GRINDING BALLS AND SLUGS FOR CEMENT MILLS AND THE LIKE. Class 4.

275,934. "MYER'S" AND DESIGN. Registered Oct. 7, 1930. Myer Bottling Co., Inc. Renewed Oct. 7, 1950, to Myer 1890 Bottling Co., Inc., New York, N. Y., a corporation of New York. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. Class 45.

276,005. MEN-ZO-LIN. Registered Oct. 7, 1930. Howard S. Griswold, doing business as Men-Zo-Lin Products Co., Fredonia, N. Y. Renewed Oct. 7, 1950. PREPARATION FOR REMOVING CORNS, CALLOUSES, WARTS, ETC. Class 18.

276,040. ECCENTRIC. Registered Oct. 7, 1930. Thompson Products, Incorporated, Detroit, Mich. Renewed Oct. 7, 1950, to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio. TIE RODS AND DRAG LINKS USED IN THE CONSTRUCTION OF AUTOMOTIVE VEHICLES. Class 19.

276,054. MALLIX. Registered Oct. 7, 1930. National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio. Renewed Oct. 7, 1950. GRATE BARS, GRATE PARTS, AND STOKER LINKS. Class 34.

276,320. "SHELTON" AND DESIGN. Registered Oct. 14, 1930. Shelton Hosiery Mills, Inc., Shelton, Conn., a corporation of Connecticut. Renewed Oct. 14, 1950. HOSIERY. Class 39.

276,715. KILTY. Registered Oct. 28, 1930. J. G. Turney & Son, Limited, Glasgow, Scotland, and London, England. Renewed Oct. 28, 1950, to J. G. Turney & Son Limited, London, England, a limited liability company registered under the laws of Great Britain. WHISKY. Class 49.

276,732. GYNEX. Registered Oct. 28, 1930. Gynex Corporation, New York, N. Y., a corporation of New York. Renewed Oct. 28, 1950. SYRINGES. Class 44.

277,156. WHITE FIRE. Registered Nov. 11, 1930. Tank Car Stations Incorporated, Buffalo, N. Y. Renewed Nov. 11, 1950, to Tank Car Stations, Incorporated, Chicago, Ill., and Detroit, Mich., a corporation of New York. GASOLINE. Class 15.

277,655. TRUK-PAK. Registered Nov. 25, 1930. The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Nov. 25, 1950. PACKAGE TRAYS FOR TRUCKS. Class 2.

277,802. SUPERDENE. Registered Nov. 25, 1930. The Popular Warehouses, Limited. Renewed Nov. 25, 1950, to The Express Rubber Co. Limited, London, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. RAINCOATS. Class 39.

277,804. FEARLESS. Registered Nov. 25, 1930. The Popular Warehouses, Limited. Renewed Nov. 25, 1950, to The Express Rubber Co. Limited, London, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. RAINCOATS. Class 39.

277,893. TEXACO TOPICS. Registered Dec. 2, 1930. The Texas Company, Wilmington, Del., and New York, N. Y. Renewed Dec. 2, 1950, to The Texas Company, New York, N. Y., a corporation of Delaware. MONTHLY PUBLICATIONS. Class 38.

278,312. FIDDLESTICKS. Registered Dec. 16, 1930. Eskimo Pie Corporation, Louisville, Ky. Renewed Dec. 16, 1950, to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware. CANDIES AND FROZEN CONFECTIONS GENERALLY COMPRISING A CORE OF ICE CREAM OR OTHER FROZEN MATERIAL COATED WITH CHOCOLATE OR OTHER CONFECTION MATERIAL. Class 46.

278,389. "UE & FCO" AND DRAWING. Registered Dec. 16, 1930. United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Dec. 16, 1950. PAMPHLETS. Class 38.

278,728. LEMPCO. Registered Dec. 30, 1930. Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio. Renewed Dec. 30, 1950. DRIVE SHAFTS, PINION SHAFTS, WORM GEARS, AND WORM SHAFTS. Class 23.

278,923. RAPIDOGEN. Registered Jan. 6, 1931. I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Renewed Jan. 6, 1951, to General Dyestuff Corporation, New York, N. Y., a corporation of New York. DYESTUFFS FOR DYEING AND PRINTING PURPOSES. Class 6.

279,449. "THREE CASTLES" AND DESIGN. Registered Jan. 13, 1931. Embassy Grocery Corp., New York, N. Y., a corporation of New York. Renewed Jan. 13, 1951. CANNED FRUITS, CANNED VEGETABLES, AND FRUIT PRESERVES. Class 46.

279,732. SNOW MAN. Registered Jan. 20, 1931. Eskimo Pie Corporation, Louisville, Ky. Renewed Jan. 20, 1951, to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware. CANDY COVERING FOR FROZEN CONFECTIONS. Class 46.

279,933. THE FAMOUS BOUNCING BALL. Registered Feb. 3, 1931. Paramount Publix Corporation. Renewed Feb. 3, 1951, to Paramount Pictures Corporation, New York, N. Y., a corporation of New York. MOVING-PICTURE FILMS. Class 26.

279,989. REJUVIA. Registered Feb. 10, 1931. Louis Mocq. Renewed Feb. 10, 1951, to Rejuvia Beauty Laboratories, Inc., New York, N. Y., a corporation of New York. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. Class 51.

280,084. "LA CROSS" AND REPRESENTATION OF CROSS. Registered Feb. 10, 1931. Schnefel Brothers, Inc. Renewed Feb. 10, 1951, to Schnefel Bros. Corporation, Newark, N. J., a corporation of New Jersey. TWEEZERS FOR DENTAL, SURGICAL AND MANICURE PURPOSES, MANICURE AND PEDICURE NIPPERS, ETC. Class 44.

280,134. COLLEGE TOWN. Registered Feb. 10, 1931. Lefkowits-Elias Company. Renewed Feb. 10, 1951, to College Town Foods, New Brunswick, N. J., a corporation of New Jersey. TOMATO CATSUP, CANNED SHRIMP, AND CANNED APPLE SAUCE, CANNED VEGETABLES, ETC. Class 46.

280,199. "YELLOWSTONE" AND DESIGN. Registered Feb. 10, 1931. Taylor & Williams, Incorporated. Renewed Feb. 10, 1951, to Yellowstone, Inc., Louisville, Ky., a corporation of Delaware. WHISKEY. Class 49.

280,293. BRITASYLK. Registered Feb. 10, 1931. Wm. Simpson, Sons & Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Feb. 10, 1951. COTTON GOODS IN THE PIECE. Class 42.

280,310. CRAYONEXING. Registered Feb. 10, 1931. The American Crayon Company, Sandusky, Ohio, a corporation of Ohio. Renewed Feb. 10, 1951. MATERIALS USED IN PROCESS FOR APPLYING CRAYONS TO FABRICS—NAMELY, BOXES CONTAINING CRAYONS, ETC. Class 22.

280,384. SALON=ETTE. Registered Feb. 17, 1931. Shoecraft Shop, Inc. Renewed Feb. 17, 1951, to Shoecraft, Inc., New York, N. Y., a corporation of New York. MISSES' AND WOMEN'S SHOES OF LEATHER, RUBBER, OR FABRIC AND COMBINATIONS OF THESE MATERIALS. Class 39.

280,520. "PED-A-REST" AND DESIGN. Registered Feb. 17, 1931. Emanuel Schoenfeld, Harrisburg, Pa. Renewed Feb. 17, 1951, to Arnold, Constable & Co., Inc., New York, N. Y., a corporation of New York. LEATHER SHOES. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

521,642. PRODIGE. Registered Feb. 28, 1950. Lanvin-Parfums, Inc., New York, N. Y. PERFUMES AND TOILET WATERS. Class 51. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, line 2, "New York" should be *Delaware*; and in the statement, line 4, after "New York," *and at Wilmington, Delaware,* should be inserted.

527,739. FIGURE OF A WOMAN AND CHILD. Registered July 18, 1950. Lanvin-Parfums, Inc., New York, N. Y. PERFUMES, TOILET WATERS. Class 51. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, line 2, "New York" should be *Delaware*; and in the statement, line 4, after "New York," *and at Wilmington, Delaware,* should be inserted.

529,105. "PHILLIPS 66" AND SHIELD DESIGN IN ORANGE AND BLACK COLORS. Registered Aug. 15, 1950. Phillips Petroleum Company, Bartlesville, Okla. LIVESTOCK SPRAY, SOLUBLE POWDER TYPE RADIATOR CLEANER, ETC. Class 52. Corrected as follows: In the printed statement, page 1, first column, line 35, description of merchandise, strike out the comma after "ASTM", first occurrence; line 36, after "NAPHTHA" and before "BUTADIENE" insert a comma.

529,416. CHAMPAGNE. Registered Aug. 22, 1950. Ecusta Paper Corporation, Pisgah Forest, N. C. CIGARETTE PAPER. Class 8. Corrected as follows: In the printed statement, line 21, for "May 21, 1945" read *May 21, 1946*.

529,953. "RECTODYNE" AND DESIGN. Registered Aug. 29, 1950. McColpin-Christie Corporation, Ltd., Los Angeles, Calif. DRY PLATE RECTIFIERS FOR INDUSTRIAL POWER SUPPLY AND FOR AIRPLANE STARTING. Class 21. Corrected as follows: In the signature to the printed statement and declaration, for "McCOLPHIN-CHRISTIE CORPORATION, LTD." read *McCOLPIN-CHRISTIE CORPORATION, LTD.*

529,996. LTPEX. Registered Aug. 29, 1950. Columbian Carbon Company, New York, N. Y. CARBON BLACK FOR USE IN THE RUBBER INDUSTRY. Class 6. Corrected as follows: In the certificate, lines 2 and 13, name of registrant, for "Columbia Carbon Company" read *Columbian Carbon Company*.

530,703. HOME PERMA-NET. Registered Sept. 12, 1950. The Glemby Company, Inc., New York, N. Y. HAIR NETS. Class 39. Corrected as follows: In the certificate, line 3, second occurrence; and in the statement, lines 2 and 3, "New York" should be *Delaware*.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

221,183. VERNAX. Registered Nov. 23, 1926. Arthur S. Vernay, Inc. FURNITURE POLISH. Class 16. New certificate under section 7(c) issued Nov. 28, 1950, to Schieffelin & Co., New York, N. Y., a corporation of New York.

347,511. LADY ARLINGTON. Registered June 29, 1937. Arlington Silk Hosiery Co. Inc. HOSIERY. Class 39. New certificate under section 7(c) issued Nov. 28, 1950, to Joseph Kaufman, New York, N. Y.

412,834. C Q. Registered Mar. 27, 1945. Radio Magazines, Inc. MONTHLY PUBLICATIONS, ETC. Class 38. New certificate under section 7(c) issued Nov. 28, 1950, to Cowan Publishing Corp., New York, N. Y., a corporation of New York.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 272,127. Registered July 1, 1930. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Republished by Verona Chemical Company, Newark, N. J., a corporation of New Jersey.

Cyclamal

FOR ODORIFEROUS AND AROMATIC CHEMICALS USEFUL IN THE PRODUCTION OF PERFUMES AND FLAVORING EXTRACTS.
Claims use since about Mar. 9, 1929.

Reg. No. 328,695. Registered Oct. 1, 1935. VERALIN, INC., Chicago, Ill. Republished by Consolidated Cosmetics, Chicago, Ill., a firm.

Dr. Heath's

FOR ANTISEPTIC, GERMICIDE, DEODORANT, DISINFECTANT, LAXATIVE, AND PAIN TABLETS.
Claims use since Mar. 22, 1934.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Reg. No. 274,947. Registered Sept. 9, 1930. COAST MANUFACTURING & SUPPLY COMPANY, Livermore, Calif., a corporation of Delaware. Republished by registrant.

The blue label is disclaimed apart from the mark as shown.
FOR POWDER-TRAIN FUSES.
Claims use since about July 15, 1903.

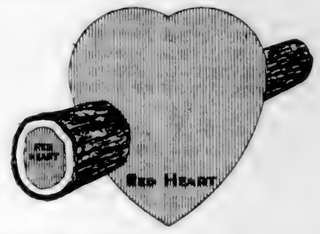
Reg. No. 274,948. Registered Sept. 9, 1930. COAST MANUFACTURING & SUPPLY COMPANY, Livermore, Calif., a corporation of Delaware. Republished by registrant.

FOR FUSES.
Claims use since about July 1, 1906.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 277,220. Registered Nov. 11, 1930. GEORGE C. BROWN & COMPANY, Memphis, Tenn. Republished by George C. Brown & Company, Inc., Greensboro, N. C., a corporation of North Carolina.



The drawing is lined for red.
FOR CLOSET LINING, FLOORING, SHELVING, AND QUARTER ROUND.
Claims use since May 1929.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 275,392. Registered Sept. 23, 1930. WEST BEND ALUMINUM CO., West Bend, Wis., a corporation of Wisconsin. Republished by registrant.

DeLuxe

FOR ALUMINUM COOKING UTENSILS—NAMELY, COFFEEPOTS, TEAPOTS, PANS, POTS, DISHES, AND KETTLES.
Claims use since July 1, 1927.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Reg. No. 80,153. Registered Nov. 8, 1910. OLIVER REEDER & SON, Baltimore, Md. Republished by Oliver Reeder & Son, Incorporated, Baltimore, Md., a corporation of Maryland.

FOR MARINE PAINT.
Claims use since Sept. 9, 1908.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 277,130. Registered Nov. 4, 1930. POR LARRAÑAGA, FABRICA DE TABACOS, S. A., Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Republished by registrant.

All the words except "Por Larranaga" are disclaimed apart from the mark as shown.
FOR CIGARS.
Claims use since September 1908.

Reg. No. 277,131. Registered Nov. 4, 1930. POR LARRAÑAGA, FABRICA DE TABACOS, S. A., Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Republished by registrant.

FOR CIGARS.
Claims use since March 1892.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 328,695. Registered Oct. 1, 1935. VERALIN, INC., Chicago, Ill. Republished by Consolidated Cosmetics, Chicago, Ill., a firm.

Dr. Heath's

FOR ANTISEPTIC, GERMICIDE, DEODORANT, DISINFECTANT, LAXATIVE, AND PAIN TABLETS.
Claims use since Mar. 22, 1934.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 267,288. Registered Feb. 18, 1930. TECHNICOLOR MOTION PICTURE CORPORATION, Boston, Mass., a corporation of Maine. Republished by registrant, present address Hollywood, Calif.

TECHNICOLOR

FOR MOTION PICTURE FILMS.
Claims use since November 1922.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 276,629. Registered Oct. 21, 1930. ELGIN NATIONAL WATCH COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant, present address Elgin, Ill.

Home Run

FOR WATCHES AND WATCHCASES.
Claims use since on or about June 5, 1930.

CLASS 37

PAPER AND STATIONERY

Reg. No. 42,194. Registered Mar. 8, 1904. W. E. WROE & COMPANY, Chicago, Ill. Republished by Bradner Smith & Company, Chicago, Ill., a corporation of Illinois.

CONSTRUCTION

FOR BOND PAPER.
Claims use since the month of May 1903.

Reg. No. 49,122. Registered Jan. 23, 1906. EAGLE PENCIL COMPANY, New York, N. Y., a corporation of Delaware. Republished by Eagle Pencil Company, New York, N. Y.

DRAUGHTING

FOR LEAD PENCILS.
Claims use since the latter part of the year 1891.

Reg. No. 60,765. Registered Feb. 19, 1907. EAGLE PENCIL COMPANY, New York, N. Y. Republished by Eagle Pencil Company, New York, N. Y., a corporation of Delaware.

COPYGRAPH

FOR LEAD PENCILS.
Claims use since February 1906.

CLASS 39

CLOTHING

Reg. No. 179,608. Registered Feb. 12, 1924. ISODOR BERGER, doing business as Eclipse Knitting Mills, Newark, N. J. Republished by Eclipse Knitting Mills, Inc., East Newark, N. J., a corporation of New Jersey.

FOR SWEATERS.
Claims use since Feb. 14, 1914.

Reg. No. 442,940. Registered June 21, 1949. SYDNEY ROSENBERG, doing business as Tam O' SHANTER SPORTSWEAR CO., Boston, Mass. Republished by Tam O' Shanter Sportswear, Inc., Manchester, N. H., a corporation of New Hampshire.

TAM O' SHANTER

FOR MEN'S, CHILDREN'S, AND INFANTS' COTTON CLOTHING—NAMELY, KNITTED POLO SHIRTS AND SWEAT SHIRTS, SWEATERS, PAJAMAS, UNDER AND OUTER SHORTS, SWIM SUITS, OVERALLS, SPORT JACKETS, AND SLACKS.
Claims use since Feb. 24, 1947.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 273,746. Registered Aug. 12, 1930. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Republished by registrant.

RUG ANCHOR

The word "Rug" is disclaimed apart from the mark as shown.
FOR RUBBER-COATED FABRICS TO PREVENT THE SLIPPING OF RUGS.
Claims use since 1913.

CLASS 43

THREAD AND YARN

Reg. No. 273,482. Registered Aug. 5, 1930. J. & P. COATS (R. I.) INC., Pawtucket, R. I. Republished by The Clark Thread Company, Inc., Wilmington, Del., and Clarksdale, Ga., a corporation of Delaware.

TRIMSTITCH

FOR THREAD.
Claims use since Sept. 13, 1929.

Reg. No. 274,234. Registered Aug. 26, 1930. THE CLARK THREAD COMPANY, Newark, N. J. Republished by The Clark Thread Company, Inc., Wilmington, Del., and Clarksdale, Ga., a corporation of Delaware.

BLOSSOM

FOR THREAD.
Claims use since Apr. 4, 1930.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 78,946. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

Stork

FOR CANNED SALMON.
Claims use since July 7, 1904.

Reg. No. 78,947. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

Javelin

FOR CANNED SALMON.
Claims use since Feb. 5, 1905.

Reg. No. 78,949. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

PLOVER

FOR CANNED SALMON.
Claims use since July 7, 1904.

Reg. No. 78,952. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

JACKHORNER

FOR CANNED SALMON.
Claims use since Aug. 15, 1905.

Reg. No. 78,954. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

AUK

FOR CANNED SALMON.
Claims use since July 7, 1904.

Reg. No. 78,988. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

7-11

FOR CANNED SALMON.
Claims use since Aug. 1, 1901.

Reg. No. 78,990. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

Uwanta

FOR CANNED SALMON.
Claims use since Aug. 1, 1901.

Reg. No. 78,991. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

RACELAND

FOR CANNED SALMON.
Claims use since Aug. 1, 1901.

Reg. No. 78,992. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

SHELL

FOR CANNED SALMON.
Claims use since Aug. 1, 1901.

Reg. No. 78,999. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

Clove

FOR CANNED SALMON.
Claims use since Aug. 1, 1901.

Reg. No. 79,326. Registered Aug. 30, 1910. DEMING & GOULD CO., Chicago, Ill. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

BOW-KNOT

FOR CANNED SALMON.
Claims use since July 7, 1904.

Reg. No. 271,098. Registered May 27, 1930. JAMES VAN DYK COMPANY, New York, N. Y. Republished by James Van Dyk Co., Inc., New York and Brooklyn, N. Y., a corporation of New York.

SanBo

FOR COFFEE.
Claims use since November 1917.

Reg. No. 274,858. Registered Sept. 9, 1930. DEMING & GOULD CO., Chicago, Ill. and South Bellingham, Wash. Republished by Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware.

RED FEATHER

FOR CANNED SALMON.
Claims use since July 1908.

Reg. No. 381,822. Registered Oct. 8, 1940. FALCON PACKING CO. INC., New York, N. Y., a corporation of New York. Republished by registrant.

DELVISO

FOR BOTTLED OLIVES.
Claims use since Jan. 1, 1929.

REISSUES

NOVEMBER 28, 1950

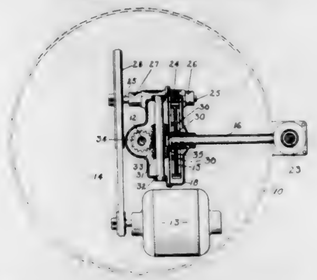
23,296

WASHING MACHINE DRIVE MECHANISM

Vernon E. Dunn, Alliance, Ohio, assignor to The Dexter Company, Fairfield, Iowa, a corporation of Iowa

Original No. 2,153,301, dated April 4, 1939, Serial No. 11,187, March 15, 1935. Application for reissue May 2, 1950, Serial No. 159,639

5 Claims. (Cl. 74—78)



2. Means for oscillating a washing machine dolly, said dolly having a vertical shaft and a drive pinion on said shaft, said means comprising a round bar mounted horizontally, a member slidable on said bar, rack teeth on said member engaging said pinion, a crank disc mounted for rotation [and] *on a horizontal axis perpendicular to said bar and intersecting the axis of the vertical shaft, said disc being* faced toward [a] *the* side of said member *opposite said rack teeth,* a crank pin projecting from the face of said crank disc, said member having a groove extending transversely of said rack and receiving said pin, said member having portions *extending above and below the axis of the disc and bearing* [adapted to bear] against the face of said disc to prevent any substantial pivoting in either direction of said member on said bar.

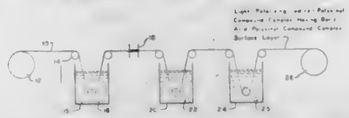
23,297

SHEETLIKE LIGHT-POLARIZING COMPLEX OF IODINE AND A POLYVINYL COMPOUND WITH PROTECTIVE SURFACE BORIC ACID-POLYVINYL COMPOUND COMPLEX

Mark Hyman, Jr., Belmont, and Cutler D. West, Cambridge, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Original No. 2,445,579, dated July 20, 1948, Serial No. 576,850, filed February 8, 1945. Application for reissue filed September 14, 1948, Serial No. 49,164

9 Claims. (Cl. 88—65)



6. A light-polarizing, molecularly oriented film of a heat and moisture resistant polyvinyl orthoborate having a dichroic stain incorporated therein, said polyvinyl orthoborate being a substantially complete reaction product of boron ions and a polyvinyl compound from the class consisting of polyvinyl alcohol, the polyvinyl acetals and the polyvinyl ketals, the boron content of the polyvinyl orthoborate resulting from the reaction of said polyvinyl compound with a concentrated solution of boric acid until said reaction is substantially complete.

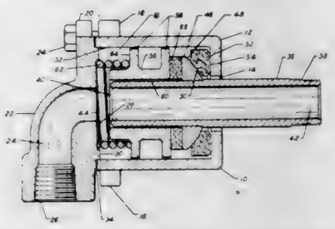
23,298

SWING JOINT

Rollo O. Monroe, Three Rivers, Mich., assignor to The Johnson Corporation, Three Rivers, Mich., a corporation of Michigan

Original No. 2,497,183, dated February 14, 1950, Serial No. 744,855, April 30, 1947. Application for reissue May 19, 1950, Serial No. 163,281

3 Claims. (Cl. 285—97.6)



1. A fluid joint comprising a cup-shaped body portion, an attachment flange on said body portion, a fitting adapted for attachment to a relatively stationary part and presenting an attachment flange to join with said first flange, a nipple, movable on its longitudinal axis, projecting through an opening in said body portion said opening providing circumferential clearance with the nipple, a spherical segmental sealing portion on said nipple, a spherical segmental sealing ring floatingly mounted within said body portion in sealing relationship with said sealing portion and said body portion, a cylindrical guide in which one end of said nipple is journaled and within said body portion, and a spring seated on said guide and adapted to urge said guide against said sealing portion.

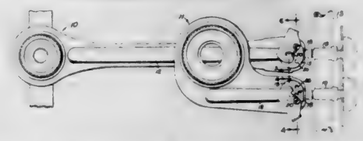
23,299

PRIMARY AIR AND GAS SUPPLY MEANS FOR BURNERS

Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts

Original No. 2,474,957, dated July 5, 1949, Serial No. 667,212, May 3, 1946. Application for reissue August 26, 1949, Serial No. 112,575

3 Claims. (Cl. 126—118)

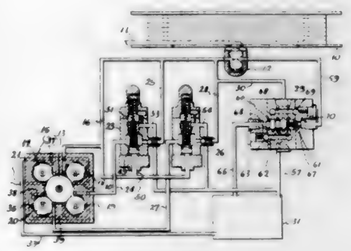


4. The combination with a gas burner having a burner head with a mixing passage leading thereto, of means forming a gas and air inlet chamber communicating with said passage and having an opening axially alined with the passage for the reception of a gas discharge nozzle, said

chamber having flat parallel top and bottom walls with transversely alined air inlet openings of uniform size and shape for admitting air at opposite sides of a stream of gas issuing from said nozzle, a generally U-shaped unitary shutter for controlling the admission of air through said air inlet openings comprising a pair of flat plate-like shutter elements disposed in parallel relation and connected together at one end by an integral cross member, means for adjustably supporting and guiding the shutter on said chamber including clamping means extending through the chamber and through both of said shutter elements, said clamping means serving to hold the shutter elements firmly against the flat top and bottom walls respectively of the chamber and being releasable to permit movement of the shutter elements in unison relative to their respective air inlet openings to vary the effective areas thereof.

23,300
CABLE REEL
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original No. 2,395,302, dated February 19, 1946, Serial No. 535,245, May 12, 1944. Reissue No. 23,099, dated April 12, 1949, Serial No. 51,941, September 30, 1948. This application for reissue May 6, 1950, Serial No. 160,479
21 Claims. (Cl. 242—90)

1. In a cable reeling mechanism, a winding drum adapted to have a cable wound thereon, a fluid motor for driving said drum in a direction to wind cable thereon, and means for maintaining a substantially uniform tension on said cable during the winding operation including a pressure line leading to said motor, a plurality of pumps for supplying fluid to said pressure line,



and separate valve means associated with each of said pumps, adapted to discharge fluid from its associated pump to the return, upon predetermined loads on said cable, and to permit its associated pump to supply fluid to said pressure line as the tension on said cable decreases.

PLANT PATENTS

GRANTED NOVEMBER 28, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

992
ROSE PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application January 26, 1950, Serial No. 140,627
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by the true yellow color and perfect form of the individual large-flowered polyantha type blooms, combined with the general plant and foliage characteristics of the floribunda variety "Pinocchio" (Plant Patent No. 484), and the steady floriferousness of the variety, substantially as shown and described.

993
STRAWBERRY PLANT
Marion Hagerstrom, Enfield, Minn., assignor of one-half to Carl R. Hagerstrom, Enfield, Minn.
Application November 19, 1949, Serial No. 128,344
1 Claim. (Cl. 47—62)

An everbearing strawberry plant substantially as herein shown and described characterized by the large number of hardy fruit producing runner plants, and by a firm generally conical-wedge shaped berry, dark red in color, with a lustrous irregular surface and a rich, mildly acid, sweet, tangy flavor, and particularly adapted to grow successfully and prolifically in a large number of soil types under a variety of extreme weather conditions.

994
ROSE PLANT
Herbert C. Swim, Ontario, Calif., assignor, by mesne assignments, to Eldon Pinkeney Dering, doing business under the name and style of Peterson & Dering, Scappoose, Oreg.
Substituted for abandoned application Serial No. 733,887, March 11, 1947. This application filed July 17, 1950, Serial No. 174,350
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant characterized as to novelty by the strong fragrance of its flowers; the very long, strong stems bearing individual flowers of exhibition size on each stem; a combination of form, size and color in the flower unique in hybrid tea roses; the heavy, leathery, highly mildew-resistant foliage of moderately large size; and by its habit of vigorous growth to a tall plant with very little branching at the base, but with stems and flowers borne more or less continuously at a progressively greater height during each growing season, substantially as shown and described.

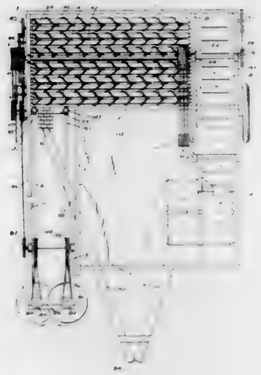
995
PLUM TREE
Elmer Stark, Di Giorgio, Calif., assignor to Di Giorgio Fruit Corporation, San Francisco, Calif., a corporation of California
Application August 14, 1948, Serial No. 44,350
1 Claim. (Cl. 47—62)

The plum tree herein described and shown characterized particularly by the larger size and round shape of its fruit.

PATENTS

GRANTED NOVEMBER 28, 1950

2,531,379
HARVESTER FOR ONIONS AND THE LIKE
Earnest E. Chickering, Belding, Mich.
Application May 9, 1945, Serial No. 592,775
4 Claims. (Cl. 55—9)

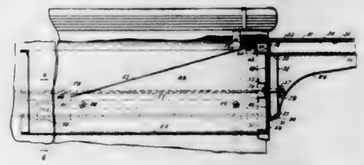


1. In a machine for picking up and processing objects lying at or near the surface of the ground, the combination: means moving said objects from their position on the ground onto a pick-up conveyer; said pick-up conveyer aligned longitudinally with the direction of operating movement of said machine receiving said objects and conveying them to a plurality of cleaning rollers; said plurality of cleaning rollers operating in pairs and arranged transversely with respect to the direction of operating movement of said machine receiving said objects, moving them axially along said rollers and discharging them onto an elevator conveyer; said elevator conveyor receiving said objects and moving them forwardly in the direction of operating movement of said machine and discharging them into a receptacle; said pick-up conveyer, rollers, and elevator conveyer moving said objects in a U-shaped path; and working space for an operator at least partly located between the arms of said U.

2,531,380
PREPARATION OF ALKALI METAL DI-SALTS OF 2:3 HYDROXYNAPHTHOIC ACID
Eric B. Higgins, Tewin Wood, England, assignor to Tewin Industries Inc., County of New York, N. Y.
No Drawing. Application March 31, 1949, Serial No. 84,760. In Great Britain April 5, 1948
6 Claims. (Cl. 260—520)

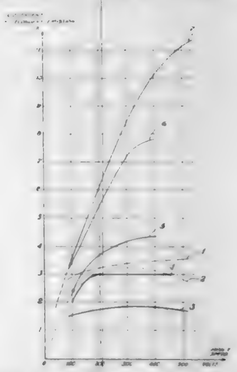
1. A process for the preparation of an alkali metal di-salt of 2:3 hydroxynaphthoic acid, comprising the heating of an alkali metal di-salt of 2:1 hydroxynaphthoic acid at a temperature between 220° C. and 360° C., with substantial absence of material containing free hydroxyl groups and in a chemically indifferent atmosphere.

2,531,381
BUSINESS MACHINE SUPPORT FOR DESK DRAWERS
Charles M. Abrahamson, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois
Application September 18, 1946, Serial No. 697,759
13 Claims. (Cl. 311—17)



1. A drawer attachment for supporting a typewriter or the like comprising a platform extending forwardly of said drawer, a retainer shaped to conform to the front interior portion of said drawer and detachably connected thereto, means connected to said platform and said retainer and overlying the top of the drawer front and in contact therewith for anchoring said platform to said drawer, and a brace connected to said platform and detachably connected to said retainer.

2,531,382
VACUUM TUBE ELECTRODE
Maurice Arditi, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 3, 1947, Serial No. 752,207
In France August 29, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires August 29, 1959
6 Claims. (Cl. 250—174)

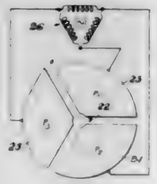


5. A vacuum tube electrode having an abnormally high secondary emission characteristic, formed of an alloy containing a predominant proportion of a metal selected from the class consisting of aluminum, beryllium and magnesium which has been heated in an oxygen-containing atmosphere at a temperature such that a polished surface of the alloy would assume a slightly granular appearance.

2,531,383
STABILIZATION OF VISCOUS DISPERSIONS OF COTTONSEED PROTEINS
Jett C. Arthur, Jr., Metairie, La., assignor to United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 23, 1948, Serial No. 40,419
5 Claims. (Cl. 106—154)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

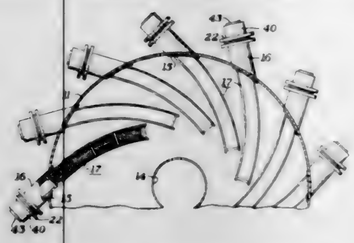
1. A process of stabilizing the viscosity of a dispersion of cottonseed proteins comprising forming a mixture of the proteins, water, a reducing sugar, in the proportions of from 88 to 220 parts water and .45 to 4.5 parts reducing sugar per 22 parts of protein, and an alkali.

2,531,384
POLYPHASE CYCLOTRON
Robert S. Bailey, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 20, 1947, Serial No. 775,312
13 Claims. (Cl. 250—27)



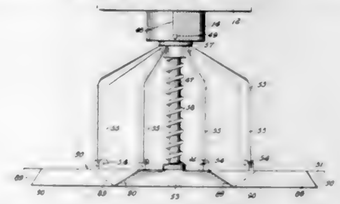
6. A particle accelerator of the cyclotron type comprising a source of particles including means for giving said particles an initial acceleration, a plurality of particle-accelerating electrically conductive chambers spaced from said source, and a polyphase source of high frequency excitation potential having its phases connected to respective chambers to subject said particles to a rotating electric field.

2,531,385
ELECTRIC IMMERSION HEATER
Herbert L. Barnebey, Richmond Township, Allegheny County, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application December 23, 1948, Serial No. 66,892
16 Claims. (Cl. 219—38)



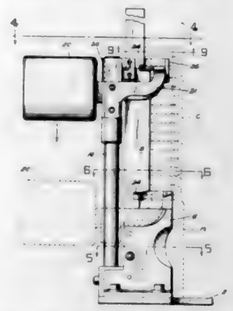
1. In an electric immersion heater, in combination, a supporting member, a lattice-work insulator extending along and supported by said member, said insulator having a plurality of lattices therein at spaced intervals, each lattice being formed of a plurality of parallel insulating separators and a plurality of parallel insulating rods, said separators and said supporting rods being disposed substantially at an angle to each other and adapted to supportably engage each other with space for differential thermal movement therebetween and to form a plurality of closed cells in each lattice, said closed cells and their respective openings being in substantial axial registry with such cells and their respective openings in an adjacent lattice, and a resistor looped back and forth through said cells and openings.

2,531,386
SHEET FOLDING MACHINE
Gustave S. Berman, New York, N. Y.
Application March 16, 1946, Serial No. 654,857
7 Claims. (Cl. 93—1)



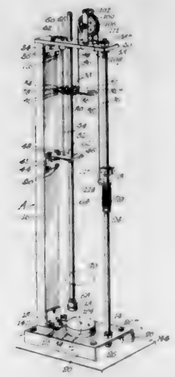
2. A sheet folding machine including a die therefore, said die comprising a star shaped cone, means adapted to effect correct registry between a sheet and said cone, said cone having a series of radially spaced pairs of laterally reentrant substantially triangular faces defining ridges and flutings, each of said ridges having a vertically disposed slot formed therein and extending from the apex towards the base of the cone, means slidably mounted in said slots for yieldably supporting a sheet in folding position, a shaft mounted for axial movement towards and away from the cone, a series of pressing irons seatable in the flutings of said cone, and means for pivotally supporting the pressing irons upon the shaft to effect simultaneous movement thereof into and out of registry with said flutings.

2,531,387
MAGAZINE LOADER
Joseph J. Bilodeau, West Springfield, Mass.
Application December 6, 1945, Serial No. 633,253
1 Claim. (Cl. 86—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A magazine loading apparatus comprising in combination, a base, a feed member mounted on said base and provided with a vertical channel adapted to support a vertical stack of cartridges, said base and feed member being arranged to provide a magazine-receiving chamber in communication with said vertical channel, a vertically-extending slide member mounted on said base in substantial parallelism with said feed member, and a follower member slidably vertically on said slide member between a lower position adjacent the top of said chamber and an upper position at a distance thereabove equivalent to the stack height of magazine load of cartridges, said follower member also being pivoted on said slide member and having a finger-like projection constructed and arranged to pivot into said channel to divide the magazine load of cartridges from the stack and force such divided cartridges downwardly into the magazine consecutively.

2,531,388
SOIL TESTING APPARATUS
John W. Black, Crittenden County, Ark.
Application April 29, 1947, Serial No. 744,613
8 Claims. (Cl. 73—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Testing apparatus comprising, in combination, a base, spaced frame members vertically mounted on the base, one of the frame members being a rear frame member and another of the frame members being a forward frame member, a top connecting plate rigidly interconnecting the frame members, a bracket horizontally extending from the rear frame member and rigidly mounted thereon, a tamping bar extending through the bracket and top plate and guided thereby during vertical movement of the tamping bar, a tamping head on the bar, manually actuated operating means for the tamping bar slidably mounted on the forward frame member, clutch mechanism connected with the operating means comprising a clutch plate including cam-acting clamping jaws for raising the tamping bar responsive to manual downward movement of the operative means along the forward frame member, an abutment means engageable by the clutch mechanism at the end of the upward travel thereof for automatically releasing the clamping means of the clutch mechanism from clutching engagement with the bar responsively to a predetermined vertical lifting movement of the tamping bar for allowing the said tamping bar to drop on a sample to be tested.

2,531,389
METHOD OF MAKING CAPACITORS
Kristian H. Brandt, Red Bank, N. J.
Application July 28, 1944, Serial No. 547,094
2 Claims. (Cl. 29—25.42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method of producing a rolled type capacitor consisting of dispersing a thin elongated sheet of vitreous enamel dielectric material, in liquid or paste form; dispersing a thin ribbon of metallic conducting material, in liquid or paste form, over said sheet, one edge of said ribbon extending in from one edge of said sheet and the other edge of said ribbon extending beyond the other edge of said sheet; dispersing a second sheet of vitreous enamel dielectric material, in liquid or paste form, over said first mentioned sheet and said ribbon, said second sheet being in substantial lateral register with said first mentioned sheet; partially drying said sheets and ribbon so as to form a flexible three-ply structure; forming a second similar three-ply laminated structure by the steps aforesaid; superimposing one of said laminated structures over the other so that the sheets of dielectric material are in substantial lateral register and the ribbons of conducting material are offset laterally in opposite directions; winding said laminated structures together to form a roll; firing said roll into a monolithic structure; and connecting electrical leads to said ribbons.

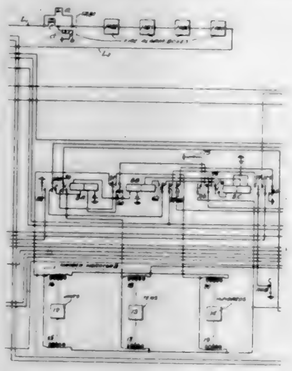
2,531,390
INSECTICIDE COMPRISING ROTENONE AND PIPERONYL CYCLONENE AS A SYNERGIST THEREFOR
Loyd W. Brannon, deceased, late of Norfolk, Va., by Leila Brannon, executrix, Norfolk, Va.; dedicated to the free use of the People in the territory of the United States
No Drawing. Original application June 8, 1948, Serial No. 34,846. Divided and this application April 22, 1949, Serial No. 89,161
1 Claim. (Cl. 167—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An insecticide comprising from 0.1 to 0.75 percent, by weight, of rotenone and piperonyl cyclonene as a synergist therefor.

2,531,391
FIRE ALARM SYSTEM
Frederick Harry Bray, Ernest Frederick Bates, and John Connell Doughty, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application November 9, 1946, Serial No. 709,026
In Great Britain October 19, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 19, 1965
2 Claims. (Cl. 177—361)

1. A closed loop electric signalling system interconnecting a main station with a plurality of

sub-stations, each adapted to send different identifying coded signals over said loop to said main station, comprising at said main station a first and second indicator means, each adapted to display any of said identifying coded signals, a first actuating means responsive to any single coded signal transmitted over said loop from any of said sub-stations, said first actuating means coupled between said loop and said first indicator means, a second actuating means responsive to any other single coded signal transmitted over said loop simultaneously with said first mentioned single coded signal, control means com-



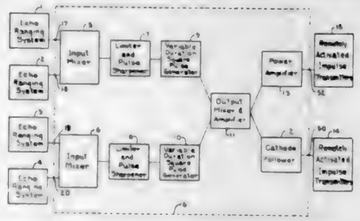
prising a first and a second impulse repeating means respectively coupled between said first and said second actuating means and said first and said second indicator means to actuate each of said indicator means in accordance with the identifying coded signals responded to by said respective actuating means, whereby said first and said second indicator means are adapted to display the same code when a first coded signal is placed on said loop and to display different codes when a second coded signal is simultaneously placed on said loop with said first coded signal.

2,531,392
POLYURETHAN COATING COMPOSITIONS
David S. Breslow, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 8, 1948, Serial No. 48,337
8 Claims. (Cl. 260—77.5)

1. A coating composition comprising the reaction product of a mixture of isocyanates, comprising toluene triisocyanate and an organic diisocyanate in a molar ratio of about 1:9 to about 9:1, with the theoretical amount of a glycol, said glycol and organic diisocyanate containing hydroxyl and isocyanate groups, respectively, as the sole reactive substituents.

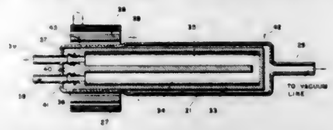
2,531,393
ELECTRONIC COORDINATING SYSTEM
T. Robert Burnight, Washington, D. C. and John F. Clark, Jr., United States Navy
Application June 8, 1945, Serial No. 598,350
9 Claims. (Cl. 343—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination, an impulse echo ranging system; a remotely-actuated impulse transmitting system; and control means for the transmitting system operative to desensitize the same in re-



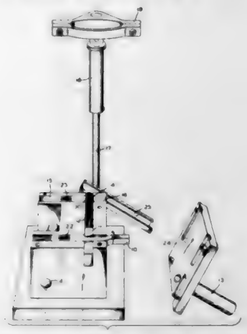
sponse to the reception of pulses from said ranging system.

2,531,394
APPARATUS FOR MANUFACTURE OF PRECISION GLASS TUBING
Clair E. Campbell, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application June 2, 1945, Serial No. 597,241
3 Claims. (Cl. 49—7)



1. Apparatus for manufacturing glass tubing from a glass blank comprising a metallic mandrel having a smooth outer surface of a diameter corresponding to the inner diameter of the glass tubing to be manufactured, passageways in said mandrel for circulating a fluid therethrough, said passageways communicating with two metallic tubes sealed to said mandrel, a glass closure member, glass tubes sealed to said metallic tubes and extending through said closure member, said closure member being adapted to be connected to said glass blank.

2,531,395
ROUND NUT FEEDING FIXTURE
Iver H. Carlson, Portsmouth, N. H.
Application November 2, 1945, Serial No. 626,421
6 Claims. (Cl. 10—162)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A semi-automatic jig for drilling or tapping circular parts comprising, a telescoping push rod with a collar on one end adapted to be attached

to a drill press or tapping machine chuck spindle, a crank to which the other end of said rod is attached, a shaft carrying said crank, a crank arm keyed to said shaft, a slidable cam operated by said crank arm, said jig having a feed slot, a feed finger operated in said feed slot by said slidable cam, a feed magazine positioned above said feed slot and communicating therewith to feed said circular parts into said feed slot, a tool guide leading into said feed slot, a holding anvil adjacent said tool guide, a holding slider opposite said anvil, a pivot crank for operating said holding slider, said pivot crank being operated by the aforesaid shaft, whereby as said push rod is actuated by vertical movement of said chuck spindle, a new part is picked up and a previously machined part is discharged by said feed finger, a new part is positioned between said holding anvil and said holding slider by said feed finger, said holding slider clamps said part against said holding anvil for drilling or tapping operation.

2,531,396
ELASTOMER REINFORCED WITH A MODIFIED CLAY
Lawrence W. Carter, New York, and John G. Hendricks and Don S. Bolley, Brooklyn, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 29, 1947, Serial No. 738,234
13 Claims. (Cl. 260—41.5)

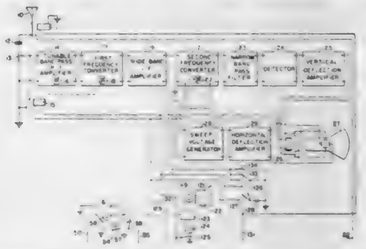
1. A reinforced elastomer, comprising, an elastomer base selected from a group consisting of natural rubber, butadiene rubber copolymers and polychloroprene rubbers, and a modified clay originally exhibiting a base-exchange capacity of from 10 to 100, in which the inorganic cation has been replaced by a substituted organic onium base to the extent of at least 15 me/100 g. of the clay.

2,531,397
SAGGER AND BATCH FOR MAKING THE SAME
Milton W. Caton, East Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
No Drawing. Application October 30, 1947, Serial No. 783,219
7 Claims. (Cl. 106—44)

3. A ceramic batch for making refractories such as saggers which consists of approximately 10% clay to facilitate molding, 3% to 20% granular silica, up to 17% silicon carbide, ½% to 2½% of a mineralizer of the group consisting of sodium aluminate and calcium aluminate, and the balance of commercially pure alumina.

2,531,398
INTERFERENCE TRANSMISSION SYSTEM
Madison Cawein and Joseph D. Schantz, Fort Wayne, Ind., assignors, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application February 25, 1943, Serial No. 477,047
14 Claims. (Cl. 250—17)

1. In a system for interfering with radio communications, a radio receiver including a visual indicating device, means for tuning said receiver to produce an indication corresponding to the frequency of the carrier wave of a selected signal, a radio transmitter including a variable frequency oscillator, means including said indicating device for adjusting the frequency of said oscillator to the carrier frequency of the selected signal, and means for radiating the carrier wave

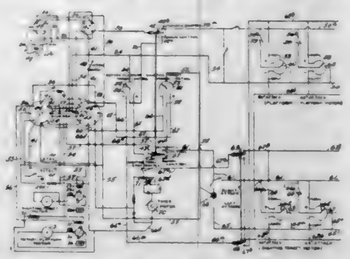


generated by said oscillator to interfere with the carrier wave of the selected signal.

2,531,399
TELEVISION PROJECTION SYSTEM AND VIEWING SCREEN
Madison Cawein and Hans W. G. Salinger, Fort Wayne, Ind., assignors, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application April 27, 1946, Serial No. 665,406
7 Claims. (Cl. 88—24)

1. An optical system for projecting an image comprising means for focusing said image in a plane, an opaque viewing screen arranged for viewing said image and having a plurality of transparent discrete areas of elemental size, and a lens system for dividing said image into elemental areas and projecting them individually through said transparent areas, said lens system being located between said screen and said image.

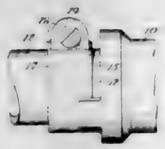
2,531,400
GUNNERY PRACTICE RANGE CONTROL DEVICE
Clarence W. Clarkson, Jr., Corning, N. Y.
Application December 27, 1945, Serial No. 637,474
6 Claims. (Cl. 35—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In a gunnery trainer device, the combination with a fixed support, a platform rotatable thereon about a fixed axis, a directable gun unit mounted on the platform having gun sighting means therefor with its sighting axis adjusted in elevation above the line of fire of the gun unit, a scoring target fixed at a remote point with respect to the rotary axis of the platform,

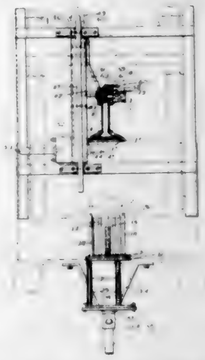
a movable sighting target disposed to travel from a different remote point toward the platform axis in line with the gun sighting axis of the gun sighting means when the line of fire of the guns are trained on the scoring target, regulatable power means for rotating the platform about its axis with respect to the movement of the sighting target toward the platform axis, regulatable power means for moving the sighting target from said different remote point toward the platform at different rate during rotation of the platform; a unitary control device for simultaneously controlling the rate of rotation of the platform and the rate of movement of the sighting target toward the platform, said unitary control device comprising a first group of independent power control devices each selectively connectable with the platform rotating power means, to rotate the platform about its axis at a predetermined definite different speed, and a second group of independent power control devices each selectively connectable with said sighting target advancing power means to move the sighting target toward the platform from the different remote point at a predetermined definite different speed, and manually operable selector means movable to connect predetermined pairs of said power control devices, one from each group, to the respective platform rotating and sighting target advancing power means, for rotating the platform about its axis and moving the sighting target toward the platform axis at a plurality of definite predetermined rates with respect to each other.

2,531,401
PIPE COUPLING
John W. Clerke, Little Falls, N. J.
Application September 10, 1947, Serial No. 773,158
3 Claims. (Cl. 285—170)



1. A pipe coupling comprising a sleeve having a bore slightly larger than the outside diameter of the pipe with which it is designed to cooperate, said sleeve having an internal groove extending circumferentially around said bore, a packing ring of elastic impervious material in said groove, said ring having an inner diameter slightly smaller than the outside diameter of the pipe and a cross-section not greater than that of the groove to permit the inwardly projecting part of the ring to be pushed outwardly into said groove by the pipe when the latter is slid into the coupling, the end of the sleeve having two relatively narrow slots, one transverse intermediate said groove and the tip of the sleeve extending more than halfway around the sleeve largely severing such end from the remainder of the sleeve to allow the unsevered portion to act as a hinge for the end of the sleeve thereby allowing the pipe to move outwardly with the largely severed end to produce a jamming action between the pipe and the sleeve and the other extending longitudinally from the tip of the sleeve to said transverse slot to produce two circumferentially extending tongues, the ends of said tongues being closely adjacent to each other, and releasable means for drawing the free ends of the tongues together to contract the largely severed end of the sleeve and press the ends of the tongues against the side of the pipe opposite the unsevered portion of the sleeve with a metal-to-metal contact.

2,531,402
MANUFACTURE OF DRY RECTIFIERS
Cedric Lipton Cooper and Leslie James Ellison, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application May 29, 1947, Serial No. 751,484
In Great Britain May 31, 1946
1 Claim. (Cl. 154—1.6)



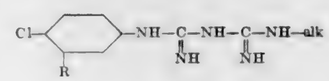
Apparatus for use in the mass production of dry disc rectifier elements of the type comprising a base plate bearing a selenium layer and a counter-electrode on the selenium layer said base plate being a disc having a centrally located opening formed therein; said apparatus comprising an operating plate, horizontally slidable into a first and a second operating position and having upwardly extending pins mounted therein, registerable with and receivable in openings formed in a relatively large rectifier disc from which the rectifier elements are to be fabricated, said openings being positioned with relation to each other so that they can constitute the central openings of the rectifier elements; a hollow head, vertically slidably supported to overlie the operating plate when said plate is in the first operating position, said head having blind openings formed therein registerable with and capable of receiving the pins mounted in said operating plate when in the first operating position, and having other openings formed therein in communication through the wall of the head to the interior thereof located close to the blind openings; valve means for selectively creating and destroying a vacuum in the interior of said head whereby paper insulating washers placed upon the head in registry with the blind openings can be retained in that position by suction; washer stacking and supplying means, positioned beneath said plate when in the first operating position and comprising vertically yieldably supported spindles which when the operating plate is in other than the first operating position, are registerable with and receivable in the blind openings in said head when the head is in its lowermost position, whereby insulating washers on said spindles can be removed therefrom and caused to adhere to the head in registry with the blind openings by suction thereby permitting washers to be taken from the spindles while the operating plate is in other than the first operating position, held on the head by suction as the head is raised to overlie the operating plate and the pins thereof are brought into registry with the blind openings, and deposited upon the pins when the vacuum within the head is destroyed.

2,531,403
PROCESS FOR COAGULATING A LATEX OF A SULFUR DIOXIDE RESIN
Willie W. Crouch and Lawrence D. Jurrens, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application July 8, 1949, Serial No. 103,742
10 Claims. (Cl. 260—79.3)

1. An improved process for producing a granular heteropolymeric resin from 1-butene and sulfur dioxide, which comprises copolymerizing same in the presence of an emulsifying agent having the formula $RCOOCH_2CH_2OSO_3Na$ where R is a C_{12} to C_{18} aliphatic hydrocarbon radical, venting the bulk of the unreacted sulfur dioxide from a resulting latex so that said latex has a pH below 3, aging said latex at a temperature between 70 and 160° F. for 1 to 25 hours, whereby a coagulation of said latex takes place, and recovering a resulting granular heteropolymeric resin from said coagulated latex.

2,531,404
BIGUANIDE COMPOUNDS
Francis Henry Swinden Curd and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application February 25, 1948, Serial No. 10,928
2 Claims. (Cl. 260—565)

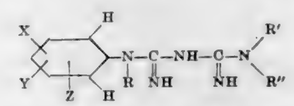
2. A compound of the general formula:



wherein R is a 1 to 3 carbon atom alkyl radical and "alk" is a lower alkyl radical.

2,531,405
BIGUANIDE DERIVATIVES
Francis Henry Swinden Curd, deceased, late of Blackley, Manchester, England, by Muriel Ruth Curd, executrix, Bramhall, England, and Francis Leslie Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Continuation of application Serial No. 755,710, June 19, 1947. This application July 25, 1949, Serial No. 106,748. In Great Britain October 8, 1945
10 Claims. (Cl. 260—565)

1. A compound selected from the group consisting of the free base form and salts of the biguanides of the general formula:



wherein R is a radical from the group consisting of hydrogen and 1 to 3 carbon atom alkyl; R′ is a lower alkyl radical; R″ is a radical from the group consisting of hydrogen and lower alkyl, with the sum of the carbon atoms of radicals R′ plus R″ being between 1 and 8 inclusive; X and Y are radicals from the group consisting of hydrogen, halogen and 1 to 3 carbon atom alkyl, and Z is a radical of a halogen atom of atomic weight greater than chlorine.

2,531,406
N,N-DIMETHYL ACETAMIDE-CONTAINING COMPOSITIONS
Gaetano F. D'Alelio, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application October 25, 1946, Serial No. 705,803
7 Claims. (Cl. 260—32.6)

2. A composition of matter comprising N,N-dimethyl acetamide substantially free from acetic acid and a polymer of vinylidene chloride containing in the polymer molecule more than 50 percent by weight of vinylidene chloride.

2,531,407
N,N-DIMETHYL ACETAMIDE-CONTAINING COMPOSITIONS
Gaetano F. D'Alelio, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application October 25, 1946, Serial No. 705,804
11 Claims. (Cl. 260—32.6)

2. A composition of matter comprising N,N-dimethyl acetamide substantially free from acetic acid and a polymer of acrylonitrile containing in the polymer molecule at least 50 percent by weight of acrylonitrile.

2,531,408
INTERPOLYMERS OF ACRYLONITRILE AND ITACONIC ACID
Gaetano F. D'Alelio, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application December 13, 1946, Serial No. 716,168
7 Claims. (Cl. 260—78.5)

1. A composition of matter comprising a copolymer of acrylonitrile and itaconic acid, said copolymer containing in the polymer molecule at least about 36 percent by weight acrylonitrile and at least about 1 percent but no more than about 5 percent by weight itaconic acid.

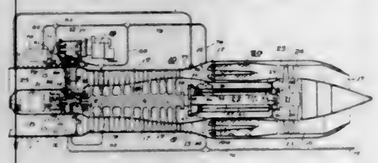
2,531,409
INTERPOLYMERS OF ACRYLONITRILE AND FUMARODINITRILE
Gaetano F. D'Alelio, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application December 13, 1946, Serial No. 716,169
10 Claims. (Cl. 260—78.5)

1. A copolymer of acrylonitrile and fumarodinitrile, said copolymer containing in the polymer molecule at least about 40 percent by weight acrylonitrile, at least about 1 percent fumarodinitrile, and at least about 1 percent of monoethylenic compound of the class consisting of methyl beta-cyanoacrylate, beta-cyanoacrylamide, itaconamide, acrylic acid, methacrylic acid, methacrylonitrile, vinyl chloride, vinylidene chloride, vinyl chloracetate, styrene, monochlorostyrene, dichlorostyrene and itaconic acid, the sum of the copolymerized compounds equalling 100 percent.

2,531,410
POLYMERIC COMPOSITIONS
Gaetano F. D'Alelio, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application December 13, 1946, Serial No. 716,170
9 Claims. (Cl. 260—78.5)

2. A copolymer of acrylonitrile and itacondiamide, said copolymer containing in the polymer molecule at least about 29 percent by weight acrylonitrile, at least about 1 percent itacondiamide, and at least about 1 percent of a monoethylenic compound of the class consisting of fumarodinitrile, beta-cyanoacrylamide, methyl beta-cyanoacrylate, acrylic acid, methacrylic acid, methacrylonitrile, vinyl chloride, vinylidene chloride, vinyl chloracetate, styrene, monochlorostyrene, dichlorostyrene and itaconic acid, the sum of the copolymerized compounds equaling 100 percent.

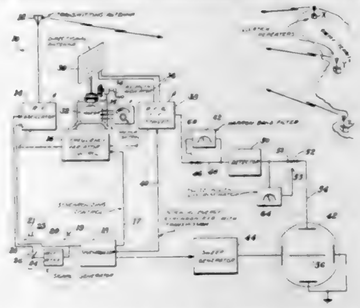
2,531,411
GAS TURBINE LUBRICATION
Charles C. Davenport, Swarthmore, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 22, 1947, Serial No. 793,287
2 Claims. (Cl. 184—6)



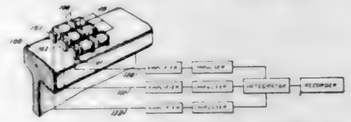
1. A lubricating and cooling system for bearings of a gas turbine power plant including a compressor and turbine exhaust nozzle, said system comprising lubricant supply means including pump, conduit means for entraining lubricant therefrom in a high velocity stream of air compressed by said compressor, a plurality of discharge nozzles communicating with said conduit means for ejecting air under pressure and entrained lubricant into said bearings, and suction communications opening adjacent said turbine exhaust nozzle for withdrawing expelled lubricant and air under pressure from said bearings.

2,531,412
SYSTEM FOR DETERMINING DISTANCE AND DIRECTION BY ELECTROMAGNETIC WAVE ENERGY
Edmond M. Deloraine, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application October 26, 1943, Serial No. 507,664
12 Claims. (Cl. 343—5)

8. A radio location determining system comprising a transmitting and receiving device and a plurality of location repeaters adapted to be positioned at points the location of which with respect to said device is desired; each of said repeaters having means triggerable by a given signal only at a predetermined frequency and means to transmit a repeater signal in response to each triggering operation at a selected narrow frequency; and said device having means to transmit said given signal, means to detect the repeater signals, means to vary continuously over a given frequency band the frequency at which the transmitting means and the detecting means of said device operate at a rate such that the repeater signals are detected at substantially the same instantaneous frequency, and means to control the transmitting of said given signal at frequencies in said given frequency band corresponding to the narrow frequency bands of said repeaters.



2,531,413
METHOD AND APPARATUS FOR DETECTING FLAWS
John C. Dionne, Chicago, Ill.
Application July 19, 1946, Serial No. 684,660
25 Claims. (Cl. 175—183)

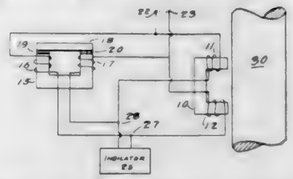


1. Apparatus for detecting flaws in an elongated metallic body which has been energized to produce characteristic magnetic fields adjacent the body and in the vicinity of the flaws comprising a plurality of flux responsive devices positioned substantially abreast and adjacent said body, means to move said flux responsive devices simultaneously along said body and past the flaws, and means to convert responses from said flux responsive devices into recognizable form only when all of said flux responsive devices respond simultaneously.

15. In the detection of rail flaws, the method of selectively integrating electrical impulses produced by three impulse circuits which consists in feeding individual impulses through a common connection to three switch members, one of which is operably responsive to individual impulses, two of which are operably responsive to impulses from a pair of impulse circuits impressed thereon simultaneously, and all three of which are operably responsive to impulses from all of said impulse circuits impressed thereon simultaneously.

2,531,414
ELECTRICAL PRESSURE MEASURING DEVICE
Lenard R. Engvall, Coulee Dam, Wash.
Application June 16, 1947, Serial No. 755,011
3 Claims. (Cl. 73—398)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination a first U-shaped ferromagnetic core on which are wound two coils, a second U-shaped ferromagnetic core on which are wound two coils, said second core having a fixed magnetic member bridging its open end and closely spaced therefrom, one coil of said first core and one coil of said second core being connected in series across a source of alternating potential to form a first pair of arms of a bridge circuit, the other coils of said first and second cores being connected in series across said source of alternating potential to form a second pair of arms of

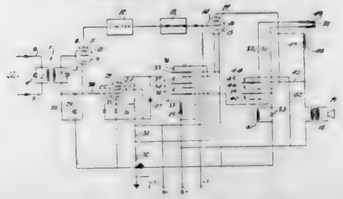


said bridge, said coils being so connected in said bridge circuit that two coils of each core form opposite arms, an indicating device connected across the mid junctions of said opposite pairs of arms, a metal member movably mounted in closely spaced relation to the open end of said first core, said movably mounted member being moved by a Bourdon tube, the movement of which is an indication of fluid pressure therein.

2,531,415
RECTIFIER
Charles A. Escoffery, East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application July 22, 1947, Serial No. 762,694
2 Claims. (Cl. 175—366)

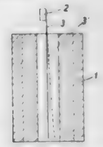
1. A rectifier comprising a metal rod, a semiconducting layer of selenium substantially covering said rod, one end only of said rod being exposed, a counterelectrode alloy substantially covering said semi-conducting layer with the edge only of said semi-conducting layer being exposed, a metal cap fitted over the end of said rod carrying said counterelectrode coating, and a protective insulating coating on said rod from the rim of said cap to near the end of the mentioned exposed portion of the rod.

2,531,416
CONTROL CIRCUIT FOR RADIO RECEIVERS
Robert C. Ferrar, New Providence, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application September 27, 1946, Serial No. 699,683
6 Claims. (Cl. 250—20)



1. In a system for rendering a signal receiver operative in response to a predetermined signal, means to detect a signal modulated carrier, a reproducing device, a predetermined signal responsive device, means to apply received signals to both said devices, control means to normally render said reproducing device inoperative, said signal responsive device being operative in response to said predetermined signal to operate said control means to render said reproducing device operative, and means responsive to reception of said carrier to maintain said control means in said operative condition, said control means having means to render said signal responsive device inoperative in response to said control means being in said operative condition.

2,531,417
FOIL MEASURING SYSTEM WITH MAGNETIC BRAKE
Friedrich Ernst Fischer, Zurich, Switzerland
Application February 2, 1946, Serial No. 645,167
In Switzerland February 9, 1945
2 Claims. (Cl. 171—95)



1. A magnetically braked measuring instrument comprising a movable metallic leaf, and at least one damping magnet having four inwardly directed poles, the poles being arranged symmetrically so that like poles are diametrically opposite each other, the leaf being arranged between and extending parallel to the faces of an opposite pair of poles and being mounted for translatory movement in a direction substantially perpendicular to such pole faces.

2,531,418
JET CASTING ARROW
Edward Fitzharris, Hollywood, Calif.
Application May 13, 1947, Serial No. 747,662
2 Claims. (Cl. 43—19)

1. A casting projectile comprising a buoyant arrow which includes a shaft and a receptacle disposed at one end thereof, a sinker releasably seated and frictionally retained in said receptacle and forming a closure for said receptacle, a guide slot in said receptacle, a fish lure disposed in said receptacle behind the sinker closure, a fish line secured to said sinker and said lure, and a portion of said line being passed through said guide slot.

2,531,419
HYBRID BRANCHING CIRCUITS
Arthur Gardner Fox, Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 5, 1947, Serial No. 789,812
5 Claims. (Cl. 178—44)

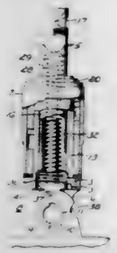
1. A hybrid branching circuit for segregating, or branching off, predetermined electromagnetic

wave power components from other electromagnetic wave power components, comprising an input hybrid structure and an output hybrid structure, two substantially identical transmission paths interconnecting two conjugate terminals of said first hybrid structure to two conjugate terminals of said second hybrid structure, respectively, two identical reflecting structures cooperatively connected to and associated with said transmission paths, respectively, the reflecting structure of one path being electrically located one-quarter wavelength nearer said first hybrid structure than the reflecting structure of said other path, said reflecting structures passing the electromagnetic wave power components, to be branched, to said second hybrid structure and reflecting all other electromagnetic wave power components back to said first hybrid structure.

2,531,420
CATALYTIC REDUCTION OF CARBON OXIDE BY HYDROGEN
Walter G. Frankenburg, Millersville, Pa., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1947, Serial No. 745,117
4 Claims. (Cl. 260—449)

1. In a process for the production of liquid hydrocarbons by the interaction of carbon monoxide and hydrogen, the improvement which comprises passing a mixture of hydrogen and carbon monoxide into contact with particles of a nitride of a transition element of the IVA, VA, VIA, and VIIA groups of the Periodic Table at a temperature within the range of 400 to 800° F. and at a pressure within the range of 100 to 300 pounds per square inch.

2,531,421
ADJUSTABLE REAR SIGHT FOR FIREARMS
John C. Garand, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War
Application June 30, 1949, Serial No. 102,187
8 Claims. (Cl. 33—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



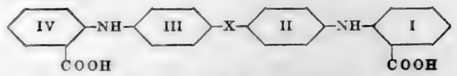
1. In an adjustable rear sight for a firearm, a base member mounted on a firearm, a sighting member vertically movable within said base member, a rotatable sleeve member carried by said base member, a plurality of teeth helically disposed within said sleeve member, and spring-biased detent means on said sighting member arranged to sequentially engage with said teeth to position said sighting member relative to said base member when said sleeve member is rotated.

2,531,422
LOGGING HOOK
Max Gerum, Jamaica, N. Y.
Application December 22, 1945, Serial No. 636,842
2 Claims. (Cl. 294—82)

2. A device comprising a log hook having a log-engaging bill, an eye for attachment of a chain, and a shank with a fulcrum between said bill and said eye, said fulcrum being in the form of a rocker, a raised anvil portion beyond the rocker, said eye being in said anvil portion, a chain connecting a twin hook with the first-mentioned hook, a swivel located centrally of the chain and another chain connected to the swivel, said bill of the hook having a flat head, said head forming a guard for the anvil.

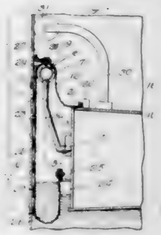
2,531,423
BIS-(CARBOXYDIPHENYLAMINE)-SULFIDES AND SULFONES
Alan August Goldberg, Somerset, and Harold Silas Turner, Manchester, England, assignors to Ward, Blenkinsop & Company Limited, London, England, a British company
No Drawing. Application October 24, 1947, Serial No. 782,013. In Great Britain August 23, 1946
3 Claims. (Cl. 260—397.6)

1. As a new product a bis-(diphenylamine 2-carboxylic acid) derivative having the general formula



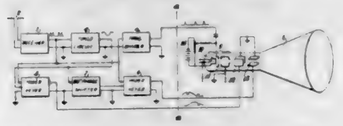
in which X is a selected from the group consisting of sulphide and sulphone groups, the sulphur atom of X being directly linked to a nuclear carbon atom of each of the phenyl residues II and III.

2,531,424
SEAL FOR FLOATING ROOF TANKS
Fred L. Goldsby and Clifford M. Orr, Chicago, Ill., assignors to Chicago Bridge & Iron Company, a corporation of Illinois
Application November 26, 1945, Serial No. 630,715
6 Claims. (Cl. 220—26)



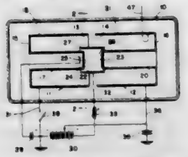
1. A seal for a floating roof tank comprising a plurality of spaced hanger arms rotatably mounted on the side of the roof extending from the edge portion of the floating roof toward the shell of the tank, an annular carrier means supported by the hanger arms, a flexible impervious sealing member attached to the roof and extending from the edge of the roof over the carrier means, down along the tank shell to a point below the surface of the stored liquid, and up to the roof to form an annular trough at the bottom portion of said sealing member, and a weighting material within said annular trough.

2,531,425
HOMING BEACON RECEPTION SYSTEM
Donald D. Grieg, Forest Hills, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 11, 1947, Serial No. 791,039
8 Claims. (Cl. 343—102)



1. The method of translating directive radio signals which are characterized by different time displaced pulse modulations according to the direction in which they are propagated, said method comprising generating sine wave energy of a frequency corresponding to the average pulse rate of said modulations, producing an electron stream and deflecting the same rotatively by means of said sine wave energy in combination with a phase-displaced derivative thereof, mixing the pulse energy of said signals with said sine wave energy and with said phase-displaced derivative, thereby to momentarily interrupt the deflection of said electron stream, and suppressing the effects of every second pulse, thereby to produce an azimuth indication from the angular position of said stream when its deflection is interrupted.

2,531,426
ULTRA HIGH FREQUENCY OSCILLATION GENERATOR
Clyde E. Hallmark, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application February 5, 1945, Serial No. 576,288
14 Claims. (Cl. 315—6)

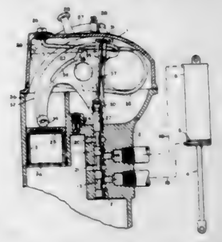


1. An ultra-high frequency oscillation system comprising a source of electrons, a secondary electron emissive member in the path of electrons emitted from said electron source, an electron collector in the paths of secondary electrons liberated from said member, a transmission line having an open-circuited terminal and a short-circuited terminal, one of said terminals being connected to said member, a source of potential coupled to said source and said member for accelerating electrons between said source and said member, a source of potential coupled to said member and said collector for accelerating secondary electrons between said member and said collector, thereby to deliver power into said line by virtue of the negative resistance between said source and said member, and means coupled to said transmission line for deriving output energy at the resonant frequency of said transmission line.

2,531,427
MODIFIED GEL-FORMING CLAY AND PROCESS OF PRODUCING SAME
Ernst A. Hauser, Cambridge, Mass.
No Drawing. Application May 3, 1946, Serial No. 667,119
16 Claims. (Cl. 260—448)

1. A cation-modified clay, originally exhibiting a base-exchange capacity of at least 25, in which the exchangeable inorganic cation has been exchanged for an onium base of a class consisting of ammonium, phosphonium, oxonium, sulfonium, arsonium, stibonium and telluronium bases and with a hydrophobic radical having a molecular area of at least 70 square angstrom units, said onium base being of a type capable of and replacing the inorganic cation to an extent sufficient to form with the clay anion an onium-clay swelling to at least 10-fold in nitrobenzene.

2,531,428
HYDRAULIC POWER DEVICE POSITIONING CONTROL MECHANISM
Richard W. Hautzenroeder, Mansfield, Ohio
Application January 31, 1947, Serial No. 725,639
15 Claims. (Cl. 60—52)

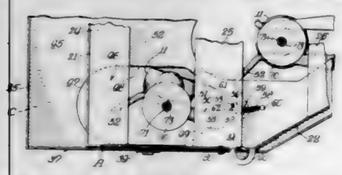


1. In a closed hydraulic system filled with fluid, the combination of a pump and a double acting, differential displacement power device dividing said system into separate delivery and return portions respectively establishing fluid communication between said pump and device, a valve in said system controlling flow of fluid between said pump and device, means in fluid communication with said return portion having a follower movable in accordance with the differential displacement of fluid by said device, means interconnecting said follower and valve whereby movement of the former actuates the latter, a fluid supply reservoir associated with said system, and a valve in fluid communication with said return portion and said reservoir permitting flow of fluid into said reservoir in response to the displacement of fluid into said return portion exceeding the differential displacement of fluid by said device.

2,531,429
BOWLING PIN HANDLING APPARATUS
Ernest Hedenskoog, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application September 9, 1946, Serial No. 695,594
13 Claims. (Cl. 273—42)

1. A pin handling mechanism having, in combination, a first horizontally extending frame; means for supporting said frame for movement towards and from an operative position above an alley bed; a second frame carried by said first frame for movement therewith to and from said operative position, said second frame being supported on said first frame for movement laterally thereof; a plurality of spring pressed plates car-

ried by said first frame and positioned to engage the tops of standing pins when the frame is moved to said operative position to clamp the pins against the alley bed; and means on the second frame arranged to engage the necks of standing pins when so clamped, said means comprising a plurality of pivotally mounted independently movable members each adapted to engage the neck of a standing pin, each such member having a channel with parallel walls of sufficient width to admit the neck of a pin, said



channel being closed at one end, with diverging walls at the other end; and pivot means adjacent the closed end of each member for supporting said member for rotation on a vertical axis, said members each having their open end facing a pin position and normally being spaced therefrom in a direction opposite to the direction of said lateral movement, relative movement of said frames causing the parallel walls of said members to move into position to straddle the neck of a clamped pin.

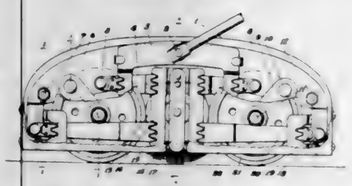
2,531,430

CARPET SWEEPER BRUSH AND WHEEL PRESSURE ADJUSTING MECHANISM

Paul Heftler, Chicago, Ill.

Continuation of application Serial No. 437,269, April 1, 1942. This application September 10, 1943, Serial No. 501,780. In Great Britain October 20, 1938

10 Claims. (Cl. 15—41)



1. A floor and carpet sweeper having a case, a handle, a pair of floor wheels at each end of the case, a rotary brush extending lengthwise in the case, a friction pulley on each end of said brush and engaging the floor wheels for driving the brush as the sweeper is pushed along a floor or carpet, means for supporting the brush and the friction pulleys for free vertical movement through a definite range of movement relative to the wheels, means for dividing the weight of the sweeper between said wheels and said brush resting on the floor or carpet in one ratio throughout their range of movement whereby both the wheels and the brush can rest freely on the floor or carpet without any pressure being applied to the handle no matter whether the floor is hard and supports the wheels without yielding or whether the carpet is thick and soft enough to let the wheels sink down in below the level of the brush, and means for dividing any pressure applied to the sweeper by the handle between wheels and the brush in another ratio, the weight dividing means and the pressure dividing means being proportioned so that the percentage of the handle pressure applied to the brush is greater than the percentage of the sweeper weight carried by the brush.

2,531,431

METHOD OF PREPARING CALCIUM FIRMED FROZEN APPLE SLICES

Claude H. Hills, Philadelphia, Pa., assignor to United States of America as represented by the Secretary of Agriculture

No Drawing. Application January 30, 1948, Serial No. 5,480

10 Claims. (Cl. 99—100)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of improving the consistency of apple tissues comprising reducing fresh apples to suitable pieces, blanching the pieces by exposing them to the action of live steam, and cooling the blanched apple pieces by contacting them with an aqueous solution containing a calcium salt in a concentration of about from .2 to 2.0%.

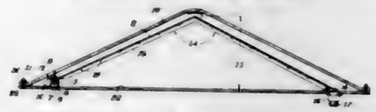
2,531,432

BROAD BAND ANTENNA SYSTEM

Leon Himmel, Montclair, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware

Application October 1, 1948, Serial No. 52,249

7 Claims. (Cl. 250—33.51)



1. A directionalized antenna for broad frequency band operation at very high frequencies, comprising a rhomboidal-shaped metal sheet antenna bent along a minor axis, and a metal reflector member in spaced and substantially nested relation with said antenna sheet, means to feed said antenna sheet at one end of its major axis, and means to terminate said antenna sheet in a dummy resistance load at the opposite end of said major axis.

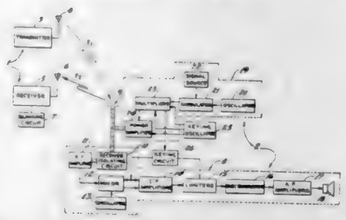
2,531,433

TIME SHARING DUPLEX COMMUNICATION SYSTEM

Ross B. Hoffman, Glen Ridge, and Robert C. Ferrar, New Providence, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application March 1, 1947, Serial No. 731,770

8 Claims. (Cl. 250—9)



1. A radio signalling system, comprising: a main station including a transmitter operable to radiate signals on one carrier frequency and a receiver operable to receive signals on a second carrier frequency, an auxiliary station including a transmitter operable to radiate signals on said second carrier frequency and a receiver operable to receive signals on said one carrier frequency, an oscillator delivering an output of relatively low frequency compared with said one and said second carrier frequencies, means coupling the output of said oscillator to said auxiliary station transmitter to render said transmitter inoperable during a certain portion of each cycle of oscillator output voltage, and means coupling biasing voltage to said auxiliary station receiver from a point in said auxiliary station transmitter where said biasing voltage exists only during the remaining portion of each cycle, said biasing voltage being of such polarity and being applied to such receiver stages that receiver output is substantially muted thereby.

2,531,434

VARIABLE FREQUENCY SELECTIVE CIRCUITS

John Douglas Holland and Duncan Dove Robinson, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application July 17, 1947, Serial No. 761,614

In Great Britain July 13, 1946

Section 1, Public Law 690, August 8, 1946

Patent expires July 13, 1966

6 Claims. (Cl. 250—40)

1. A frequency selective circuit comprising a variable reactance, a first reactance connected to said variable reactance, second and third reactances connected in parallel with one another and in parallel with said connection of said variable and first reactances, all said reactances having temperature coefficients equal in size and said third reactance only having a temperature coefficient opposite in sign to that of said other reactances.

2,531,435

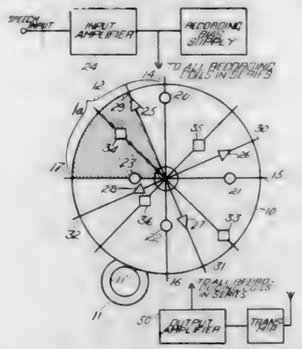
SPEECH PRIVACY APPARATUS

Daniel F. Hoth, Englewood, N. J.

Application February 7, 1947, Serial No. 726,977

6 Claims. (Cl. 179—1.5)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a speech privacy apparatus of the nature described, the combination of a disc, means for rotating said disc, a sector of magnetizable material mounted on said disc, a plurality of electrically connected recording members adjacent said disc for impressing signals on said sector said members being spaced about the surface of said disc at equal intervals the spacing of said members being dependent upon the angular length of said magnetizable sector and being arranged on radii of different lengths, and a plurality of electrically connected reproducing elements for picking up the impressed signals arranged at intervals equal to the intervals between said recording members and at similar distances from the center of the disc each said reproducing element being angularly spaced from a recording member with which it cooperates.

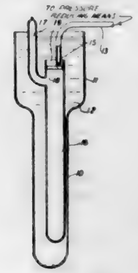
2,531,436

APPARATUS FOR TRANSFERRING FLUIDS

James B. Hunter, Upper Darby, Robert C. Taylor, Melrose Park, and William S. Young, Philadelphia, Pa., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application January 28, 1946, Serial No. 643,942

10 Claims. (Cl. 137—78)



1. In apparatus for transferring a relatively light fluid, the combination which comprises a conduit, a well, a pool of heavy liquid in which the light fluid is substantially insoluble and immiscible disposed in the well, a porous member communicating with the conduit and covered by the pool and pervious to the light fluid but impervious to the heavy liquid, a container for the light fluid provided with a second porous member having characteristics similar to the first member, the second porous member being so connected to the container that it may be brought in contact with the first member in the pool and permit the flow of the fluid from the container into the conduit through the two members, auxiliary means for sealing the second porous member when it is disposed outside the pool, and means for producing a pressure differential between the container and the conduit to induce such flow.

2,531,437

WAVE GUIDE IMPEDANCE TRANSFORMER

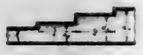
Montgomery H. Johnson, Boston, Mass., and William W. Hansen, Garden City, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Original application March 31, 1942, Serial No. 437,004. Divided and this application May 5, 1945, Serial No. 592,092

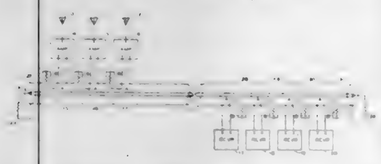
5 Claims. (Cl. 178—44)

1. An impedance matching wave guide section, comprising a portion of rectangular wave guide having a plurality of successive sections of different inside dimensions in the form of steps such that the change in the logarithm of the

impedance at each successive step is proportional to the corresponding binomial coefficient



resulting from a binomial expansion of order one less than the number of steps.

2,531,438
MULTIPLE DISTRIBUTION RADIO RECEIVING SYSTEM
William J. Jones, Fair Haven, N. J.
Application March 21, 1947, Serial No. 736,184
16 Claims. (Cl. 250—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A receiving system comprising antenna means for intercepting radio signals, at least one radio receiver, a transmission network for connecting said receiver to said antenna means, and directional coupling means interposed between said receiver and said transmission network, said coupling means serving to admit to said receiver only incident energy which is propagated on said transmission network in one given direction.

2,531,439
VITAMIN-ENRICHED PRODUCT AND PROCESS OF PRODUCING SAME
John W. Jordan, Pittsburgh, Pa., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 10, 1946, Serial No. 640,380
9 Claims. (Cl. 99—11)

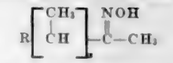
1. A composition for the treatment of food products, comprising a modified clay initially exhibiting substantial base-exchange capacity, in which the clay cation has been substantially replaced by a substituted cation of a vitamin by reacting 10–100 milliequivalents of the vitamin with 100 grams of the clay, but in order to retain substantially the adhesive character of the clay, the vitamin being of a class consisting of thiamin, niacin and riboflavin.

2,531,440
LUBRICANTS
John W. Jordan, Pittsburgh, Pa., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 29, 1947, Serial No. 738,233
7 Claims. (Cl. 252—28)

1. A bodied lubricant, comprising essentially, an organic lubricating liquid having colloidally dispersed therein a clay originally exhibiting a base-exchange capacity of at least 25, in which the exchangeable inorganic cation has been exchanged for an onium base of a type capable of and to an extent sufficient to form an onium-clay swelling to at least eight-fold in nitrobenzene.

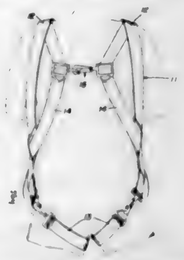
2,531,441
REARRANGEMENT OF STEROID OXIMES
Percy L. Julian, Maywood, and John W. Cole and Edwin W. Meyer, Chicago, and Arthur Magnani, Wilmette, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 22, 1947, Serial No. 749,888
20 Claims. (Cl. 260—397.5)

1. The process for producing primary steroid amines which comprises effecting rearrangement of a sulfonic acid ester of an oxime of the formula



wherein R is a cyclopentanopolyhydrophenanthrene radical and x is a number chosen from the group consisting of zero and one by treating the same in the presence of a large amount of at least one compound selected from the group consisting of alcohols, primary amines, secondary amines, alcohol amines and diamines having a hydrogen atom attached to an amino nitrogen atom and mixtures thereof.

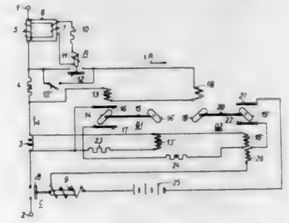
2,531,442
CROSS-CHEST BUCKLE FOR PARACHUTE HARNESS
Ralph D. Junker, Ansonia, Conn.
Application October 25, 1948, Serial No. 56,324
4 Claims. (Cl. 244—151)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a parachute harness having a pair of shoulder straps, a cross-chest buckle comprising a riser slidably mounted on each of said straps, a snap hook secured to one of the risers and positioned in a plane substantially parallel to that of said one riser, and a ring for detachable engagement with said hook secured to the other of the risers, said ring being positioned in a plane substantially perpendicular to that of said other riser.

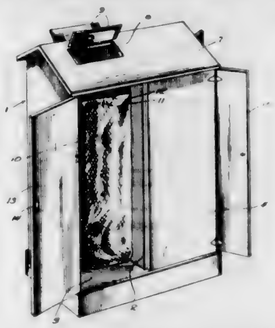
2,531,443
CONTROL APPARATUS FOR ALTERNATING CURRENT
Fritz Kesselring, Zollikon-Zurich, Switzerland, assignor to FKG Fritz Kesselring Gerätebau Aktiengesellschaft, Bachtobel-Weinfelden, a Swiss company
Application June 13, 1947, Serial No. 754,498
In Switzerland June 17, 1946
10 Claims. (Cl. 175—294)

7. Alternating-current responsive control apparatus, comprising a circuit for alternating current having circuit means for providing a voltage in accordance with the magnitude of said current and circuit means for providing a voltage in accordance with the rate of change of said current, a first ratiometer relay having a movable contact device and two coils connected to said respective circuit means for controlling said device in response to a given value of the ratio of said voltages, a second ratiometer relay having a movable contact device for issuing a control impulse when actuated and having two coils connected to said respective circuit means for actuating said latter



device in response to a given value of said ratio, said contact device of said first relay being interposed between one of said coils of said second relay and said one circuit means connected with said one coil so as to permit said second relay to actuate said impulse transmitting contact device only during the portion of a current half wave subsequent to the moment of response of said first relay.

2,531,444
CABINET HAVING SEPARATE DEPOSIT AND COLLECTION COMPARTMENTS
Stanley S. Lane, United States Army, New London, Conn.
Application March 17, 1947, Serial No. 735,121
1 Claim. (Cl. 312—211)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

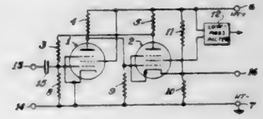


A deposit and collection receptacle for the handling of merchandise to be serviced, comprising top, bottom and side walls, a vertically arranged partition extending from the top to the bottom wall and dividing the interior of the receptacle into a pair of vertically extending compartments, a bag supported in open position in one of said compartments and adapted to receive goods to be serviced, the top of the receptacle provided with a relatively small deposit slot in vertical alignment with the open bag, the distance between said slot and the bottom of the bag being sufficiently great to prevent manual removal of articles from the bottom of the bag through said slot, shelves in the other compartment for supporting a plurality of serviced articles to be called for, said side walls provided with separate openings communicating with said compartments and substantially coextensive with the height of the compartments, separate doors for said openings, and separate locks for releasably securing the doors in closed position.

2,531,445
MANUFACTURE OF MAGNETIC BODIES FROM COMPRESSED POWDERED MATERIALS
William Edward Laycock, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
No Drawing. Application December 19, 1946, Serial No. 717,330. In Great Britain November 23, 1945
3 Claims. (Cl. 252—62.5)

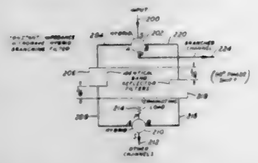
1. Method of manufacturing a body having low hysteresis loss factor from compressed insulated magnetic particles of high permeability which comprises first insulating the particles with a primary insulating layer consisting of an acid hydrolyzed silicon ester, subsequently insulating the particles with at least one further layer of insulation comprising an intermediate layer of at least one substance chosen from the class consisting of magnesium oxide and magnesium hydroxide, and an outermost layer comprising titanium dioxide, compressing the particles so insulated into core form to cause plastic deformation of the magnetic particles and then annealing the finished core to recrystallise the magnetic particles.

2,531,446
GATED TRIGGER DEMODULATING CIRCUIT
Maurice Moise Levy, Aldwych, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 6, 1945, Serial No. 620,821
In Great Britain September 1, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires September 1, 1964
2 Claims. (Cl. 250—27)



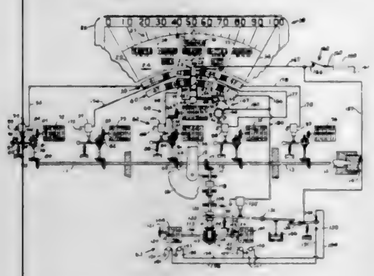
1. In a channel demodulating arrangement for a multi-channel electric pulse communication system, two thermionic valves the control grid of each being connected directly to the anode of the other to form a self-restoring multivibrator circuit, means for biasing the first valve so that control grid current normally flows, means applying time-phase modulated pulses in negative sense to the control grid of the first valve through a condenser-resistance coupling circuit, means for biasing the second valve so that it remains cut off during the application of the said pulses to the first valve, means for applying rectangular gating pulses corresponding to one of the channels of the system to sensitise the second valve so that it will respond only to the pulses of the said channel, said gating pulses having a duration greater than said time phase modulated pulses and having an amplitude insufficient by itself to cause said second valve to conduct, but sufficient to maintain conduction once it is initiated, and means for deriving time-duration modulated pulses from the second valve.

2,531,447
HYBRID CHANNEL-BRANCHING MICROWAVE FILTER
Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 5, 1947, Serial No. 789,985
11 Claims. (Cl. 178—44)



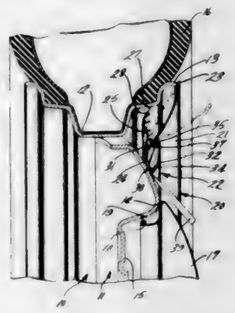
11. In an electrical guided wave transmission system, the combination which comprises first and second wave guide hybrid junctions, each of said junctions having two pairs of terminations, the terminations of each pair being conjugately related to each other, and a pair of wave guide structures interconnecting, respectively, the two terminations of one of said pairs of terminations of said first junction to the two terminations of one of said pairs of terminations of said second junction, said pair of wave guide structures having phase characteristics which differ by 180 degrees in relative phase over a portion of the entire frequency range of interest with respect to their relative phase over the remainder of said entire frequency range.

2,531,448
DISTANCE REGISTERING DEVICE
Frederick O. Lingenfelder, Lincoln, Nebr.
Application May 14, 1946, Serial No. 669,472
5 Claims. (Cl. 235—95)



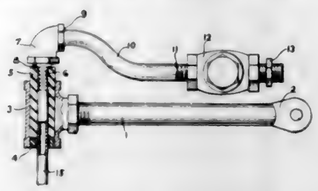
1. In combination, speed indicating means, a plurality of odometers, one for each of a plurality of speed ranges, driving means comprising a device responsive to the movement of a vehicle to drive said speed indicating means and said odometers, means for selectively reversing the relative direction in which each one of said odometers is driven with respect to the other, and means including mechanism associated with said speed indicating means for controlling said reversing means to cause said driving means to advance the odometer corresponding to the speed range indicated by the speed indicating means and to retract the odometer corresponding to another speed range so that the odometers collectively indicate a constant total predetermined distance.

2,531,449
WHEEL COVER
George Albert Lyon, Allenhurst, N. J.
Application November 18, 1946, Serial No. 710,454
11 Claims. (Cl. 301—37)



1. In a cover structure for a wheel including a multi-flanged tire rim and a body part, a trim ring member for disposition in concealing relation to the outer side of the tire rim and having a plurality of radially inward tongues at its inner margin, and a retaining member having means thereon for attachment thereof to the tire rim and having a bearing portion adapted to engage in bearing relation to said tongues to clamp the same against the wheel body, said retaining member having openings therein for passage of said tongues to the axially inner side of said bearing portion.

2,531,450
ARC-OXYGEN UNDERWATER CUTTING TORCH
Zygmunt A. Mackiewicz, United States Navy
Application August 11, 1944, Serial No. 549,090
3 Claims. (Cl. 219—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

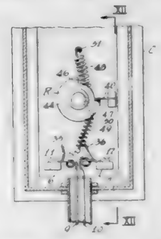


1. An oxy-arc torch comprising a length of standard pipe having a flattened end bored through for electrical connection, a standard T fitted on its other end having a bushing threaded into one end thereof and a piece of oxygen hose pushed in through the other end of the T and extending down to the bushing, a short end of this hose projecting from the T, a standard elbow fitting having a half of a hose splice fitting brazed to one end thereof and a piece of copper tubing brazed to the other end thereof, the hose splice fitting being inserted into the projecting end of the oxygen hose, an oxygen valve having one side connected to the other end of the copper tubing and having a double male fitting for connection to an oxygen supply at its other side, and a clamping screw fitted through the T and the bushing for clamping a tubular electrode.

2,531,451
WATER PURIFICATION
Franz J. Maier, Bethesda, Md.
No Drawing. Application October 7, 1947, Serial No. 778,451
1 Claim. (Cl. 210—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

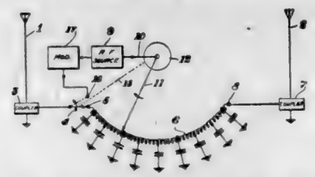
The method for the removal of fluoride ions from water which comprises the steps of treating a fluoride containing water with alum and clay at a pH of between about 6.0 to 7.0; adding an activated silica sol to the thus treated water; and permitting the water to pass thru the thus formed floc substantially as described.

2,531,452
SILENT ELECTRIC SWITCH
Lloyd Mannon, San Francisco, Calif.
Application November 24, 1945, Serial No. 630,578
4 Claims. (Cl. 200—152)



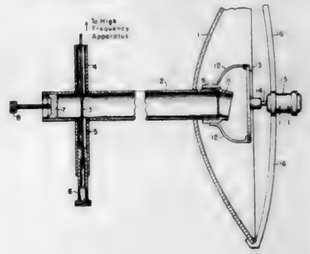
4. In a silent electric switch, a plate, a shaft, a rotatable member connected to said shaft, a stationary stop secured to said plate and lying in the arcuate path of said member, a pair of springs connected to a common point on the member said point being offset from the axis of rotation of the member, the outer ends of the springs extending substantially in opposite directions from said common point and being secured to fixed points lying in a "dead center" line intersecting the center of said member, one of said springs being stronger than the other and causing continued movement of said member when the member has been rotated beyond said line, the other spring being of such strength in comparison to the stronger spring to balance the force of said spring when the member reaches a predetermined point spaced from said stop.

2,531,453
RADIO BEACON SYSTEM
Nathan Marchand, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application December 14, 1945, Serial No. 635,057
5 Claims. (Cl. 343—107)



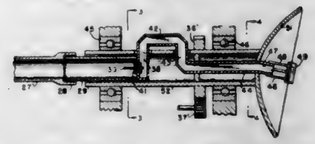
1. A radio beacon comprising a pair of antennas spaced apart substantially a half wavelength at the operating frequency, a phase shifting means coupled between said antennas to shift the relative phase of energy supplied to said antennas, a source of energy at said operating frequency, coupling means for coupling said source of energy to said antennas through said phase shifting means, means for cyclically adjusting said phase shifting means at regularly recurrent intervals to vary the phase energization of said antennas, a modulator coupled to said source to provide a predetermined synchronizing signal modulation of said energy, and means for coupling said modulator to one only of said antennas intermediate the cycles of said cyclic adjustment.

2,531,454
DIRECTIVE ANTENNA STRUCTURE
Robert J. Marshall, Elmhurst, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application February 4, 1942, Serial No. 429,494
18 Claims. (Cl. 250—33.65)



17. In a directive antenna structure having a substantially parabolic reflector, a wave guide section having an open end and an axis acutely angularly disposed relative to the axis of said reflector, said wave guide section being rotatable relatively to said reflector about said reflector axis.

2,531,455
DIRECTIVE ANTENNA STRUCTURE
Wilmer L. Barrow, Concord, Mass., and Walter W. Mieher, Mineola, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Original application February 4, 1942, Serial No. 429,494. Divided and this application December 7, 1942, Serial No. 468,305
28 Claims. (Cl. 250—33.65)

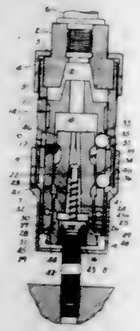


24. In combination, an air-filled metallic wave guide having a longitudinal axis and a transverse antenna aperture at one end, and means for revolving said axis about a line included in the plane of and forming an acute angle with said axis.

2,531,456
STUD SETTING DEVICE
Boyd A. McKean, Erie, Pa., assignor to Titan Tool Company, Fairview, Pa., a corporation of Pennsylvania
Application December 12, 1944, Serial No. 567,886
10 Claims. (Cl. 81—53)

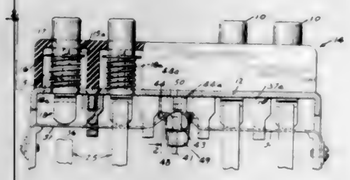
8. In a stud setting device, a driving member, a head slidable in the driving member, jaws slid-

able in the head, a cam surface journalled on the head cooperating to wedge the jaws together upon inward movement of the jaws, latch members pre-



venting inward movement of the head until the jaws are moved inward, and clutch members in the head moved into engagement with the jaws by inward movement of the head.

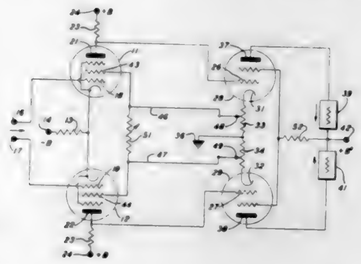
2,531,457
PUSH-BUTTON SWITCH ARRANGED IN MULTIPLE ROWS
Ernest S. McLarn, Manhasset, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application November 13, 1946, Serial No. 709,668
11 Claims. (Cl. 179—99)



1. In a multiple switch device, a row of spring-supported push buttons, switches individual thereto and operated by depressing the corresponding push buttons, an inextensible tape beneath the lower ends of said push buttons, means to maintain said tape at a uniform level at opposite sides of each push button, means for holding the ends of said tape with enough slack therebetween to permit full switch operating depression of one button at a time, said tape being operatively positioned after full depression of any one of said push buttons to return said push button to an unoperated position by partially depressing any nonoperated button.

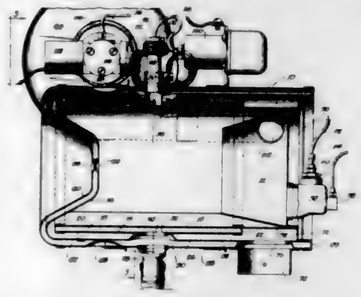
2,531,458
DIRECT COUPLED BALANCED AMPLIFIER
Robert Glen Nye, San Diego, Calif.
Application February 17, 1949, Serial No. 76,962
6 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A balanced amplifier comprising a pair of screen grid tubes having their cathodes connected together, a resistance connected to the junction point of said cathodes, means for applying signals to the control grids of said screen grid tubes, a pair of output tubes having their cathodes connected together thru a pair of series connected resistances, the anodes of said screen grid tubes being connected to the respective grids of said output tubes, direct current feedback con-



nections between the cathodes of said output tubes and the respective screen grids of said screen grid tubes, an adjustable resistance connected between the screen grids of said pair of screen grid tubes, and a pair of balanced load impedances connected in series and to the respective anodes of said output tubes.

2,531,459
WATER HEATER
William A. Marshall, Jr., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 4, 1946, Serial No. 667,421
5 Claims. (Cl. 122—136)

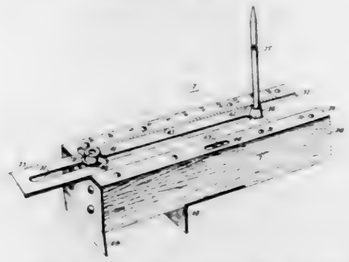


1. In an internal combustion heater, a cylindrical shell forming a combustion chamber, a sleeve surrounding said shell and spaced therefrom to form an inner water jacket, annular members closing both ends of said jacket, a burner disposed at one end of said shell and adapted to discharge products of combustion toward the opposite end of the shell, an outer water jacket surrounding the inner jacket and spaced therefrom to provide a passage of annular cross section for products of combustion, said outer jacket having an end wall which includes a re-entrant portion extending around the said opposite end of the shell of said inner jacket in spaced relation thereto and having a truncated conical form projecting into the combustion chamber and tapering toward the burner, the re-entrant end portion of the outer jacket within the combustion chamber including flat circular walls formed with mutually abutting bosses which space them apart to provide a water space in communication with the remaining space of said outer jacket.

2,531,460
STABILIZED METALLIC SOAPS
Howard Packer, Chicago, Ill., assignor to Witco Chemical Company, a corporation of Illinois
No Drawing. Application September 9, 1947, Serial No. 773,083
2 Claims. (Cl. 106—310)

2. A composition of matter consisting essentially of a non-polar solvent, 40 to 90% by weight of said composition of a water insoluble drier soap of a heavy metal, and 2 to 3% by weight of said composition, of dibutyl tartrate, a stabilizing agent.

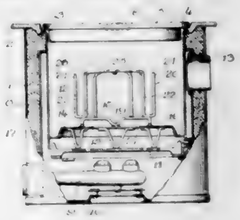
2,531,461
MEANS FOR LINING RAILROAD CURVES
Ray C. Petry, Westside, Iowa, assignor of one-half to Edward L. Whiteing, Westside, Iowa
Application March 29, 1946, Serial No. 658,357
1 Claim. (Cl. 33—60)



A sighting device for aligning rail curves comprising a block having linear guide means and having rail-engaging flanges extending transversely to the longitudinal axis of said guide means and projecting downwardly therefrom for mounting the block on a rail, a slide mounted on said guide means for movement laterally of the rail along the longitudinal axis of the guide means, a guide post mounted on the slide, and a scale associated with the slide for indicating the position of the guide post laterally of the rail, said post having a range of movement which includes positions in which a vertical portion of the guide post is inside the gauge edge of the rail and at least to the center line thereof and also positions in which said vertical portion of the guide post is outside said gauge edge, whereby the sighting device may be used to establish with another such device a second reference point in the aligning of the rail.

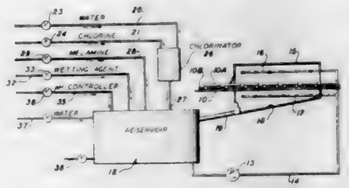
2,531,462
RACK FOR TOASTING BREAD
Thomas Esta Phares, Shelbyville, Ind., assignor to Chambers Corporation, a corporation of Indiana
Application December 10, 1948, Serial No. 64,578
5 Claims. (Cl. 99—385)

1. A rack for toasting bread comprising a centrally apertured base, a wire mounted on said base with a major portion thereof in a horizontal plane spaced above said base portion, said wire extending around said aperture and positioned intermediate the inner edge of said base, which defines said aperture, and the outer edge of said base, and a plurality of individual wire troughs secured to said horizontal wire in upstanding position, said troughs being spaced



apart a sufficient distance to permit each of them to support a slice of bread.

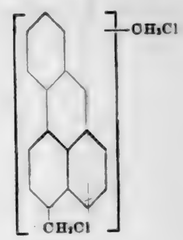
2,531,463
TREATMENT OF FRUITS AND VEGETABLES
Dean Earl Pryor, Whittier, and John Clark Baker, Monrovia, Calif., assignors to Wallace & Tiernan Products Corporation, Belleville, N. J., a corporation of New Jersey
Application July 2, 1948, Serial No. 36,584
18 Claims. (Cl. 99—154)



1. In the treatment of fresh fruits and vegetables to inhibit bacterial and fungal decay, the improvements which comprises washing the surface thereof in an aqueous solution containing from about 10 to 400 parts per million of total chlorine, less than 50% of the total chlorine being present in the form of free chlorine and the remainder of the total chlorine being present in the form of an N-chloro amine.

2,531,464
DIHALOMETHYLBENZANTHRONES
David I. Randall and Saul R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 30, 1949, Serial No. 90,775
4 Claims. (Cl. 260—364)

1. Dihalobenzanthrone having the formula:



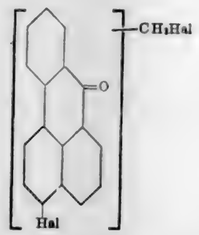
2,531,465

HALOMETHYL-4-HALOBENZANTHRONES

David I. Randall and Saul R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 30, 1949, Serial No. 90,774
6 Claims. (Cl. 260—364)

1. A halomethyl-4-halobenzanthrone having the formula:



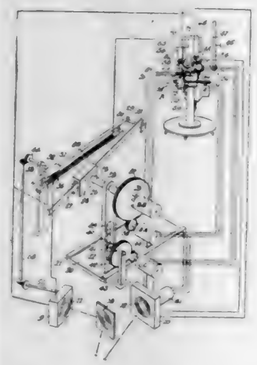
wherein Hal is a member of the group consisting of chlorine and bromine.

2,531,466

STEREOSCOPIC RADIO LOCATION DEVICE

Richard H. Ranger, Newark, N. J.

Application August 5, 1944, Serial No. 548,289
5 Claims. (Cl. 343—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. In a radio object-locating device of the type which transmits signals and receives reflections of such signals from objects to be located, the combination of: a directive antenna movable in azimuth and elevation; a first plan position indicator and a second plan position indicator, each indicator comprising a cathode ray tube and sweep circuit to produce, on the face of the tube, echo images of such objects in polar plan position; a first screen, associated with said first indicator, on which appear indicia representing certain altitudes above the position of the device; a second screen associated with said second indicator on which appear indicia similar to but so displaced from the indicia on the first screen that when the first and second screen are viewed simultaneously by an observer, a stereoscopic effect is produced and the altitude corresponding to an echo image on each of the two screens may be determined; first means for displacing the position of each echo image from its normal polar position by an amount proportional to the cosine of the angle of elevation of said antenna; second means for further displacing the position of the echo image on the second screen in accordance with the sine of the angle of elevation of said antenna; and third means for still further displacing the position of the echo image on the second screen in accordance with the azimuth angle of said antenna.

2,531,467

RECEIVER SYSTEM

Ralph B. Reade, Larchmont, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application April 18, 1946, Serial No. 663,128
6 Claims. (Cl. 343—106)

1. A receiver for a radio beacon system in whose field pattern a major beam lobe is preceded by an advance minor lobe, comprising a radio receiver for translating radio frequency signals including an intermediate frequency amplifying circuit portion, means for applying an automatic volume control voltage to said intermediate frequency portion including a time constant circuit, means for applying an inverse automatic volume control voltage for exaggerating amplification in said intermediate frequency portion, indicator signal translating circuit means including a peak amplitude clipper, and means for controlling the path for energizing voltage from said intermediate frequency portion to said first and to said second named automatic volume control means respectively.

2,531,468

POLYVINYL SULFONATES AND PROCESS FOR THEIR PREPARATION

Delbert D. Reynolds and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1949, Serial No. 87,575
8 Claims. (Cl. 260—79.3)

1. A process for preparing polyvinyl sulfonates comprising swelling polyvinyl alcohol by heating the polyvinyl alcohol in pyridine at a temperature of from 50° to 115° C., cooling the polyvinyl alcohol-pyridine mixture to from 0° to 20° C. and then adding a sulfonating agent having the general formula:

$$R—SO_2—Cl$$

wherein R represents a member selected from the group consisting of an alkyl group, an aryl group, a p-nitrophenyl group, a p-bromophenyl group and an aralkyl group, to the polyvinyl alcohol-pyridine mixture and maintaining the resulting reaction mixture at from 0 to 20° C. during the reaction.

2,531,469

POLYVINYL SULFONATES AND PROCESS FOR PREPARING THE SAME

Delbert D. Reynolds and William O. Kenyon, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1949, Serial No. 87,576
11 Claims. (Cl. 260—79.3)

1. A process for preparing a polyvinyl sulfonate comprising dissolving polyvinyl alcohol in a solvent selected from the group consisting of water, an alkyl sulfonic acid, an aryl sulfonic acid, a mixture of water and an alkyl sulfonic acid and a mixture of water and an aryl sulfonic acid, precipitating the polyvinyl alcohol by adding the resulting solution to pyridine, separating the precipitated polyvinyl alcohol, suspending the polyvinyl alcohol in substantially dry pyridine, cooling the resulting suspension of the polyvinyl alcohol to from 0° to 20° C., then adding to the cooled suspension a sulfonating agent selected from the group consisting of compounds having the general formula:

$$R—SO_2—Cl$$

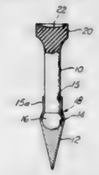
wherein R represents a member selected from the group consisting of an alkyl group, an aryl group, a p-nitrophenyl group, a p-bromophenyl group and an aralkyl group, while maintaining the temperature of the resulting reaction mixture at from 0° to 20° C. during the reaction.

2,531,470

GOLF TEE

James E. Rickard, Hollywood, Calif.

Application May 1, 1948, Serial No. 24,609
6 Claims. (Cl. 273—33)



1. A golf tee comprising: a rigid spike having its lower end tapered and adapted to be forced into the earth; a rigid upwardly opening clamping socket carried by the upper end of said spike; an upstanding flexible shank formed of flexible material and having an enlarged lower end projecting into and fitting said socket and fixedly clamped therein against dislodgment from said socket and against movement in said socket; and a golf ball supporting cup fixedly carried by the upper end of said shank.

2,531,471

METHOD AND MEANS FOR ESTIMATING THE PHLEGMATIZING PROPERTIES OF WAXES AS APPLIED TO HIGH EXPLOSIVES

John W. Rowen, South Fairlington, Va., and Albert J. Phillips, deceased, late of Arlington, Va., by T. Dixon Dudderar, administrator, Dover, N. J.

No Drawing. Application January 15, 1947, Serial No. 722,278
4 Claims. (Cl. 250—71)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

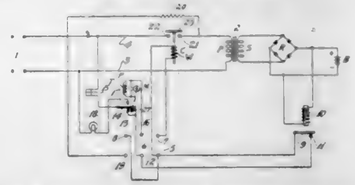
1. In the art of phlegmatizing organic explosives, the method which comprises subjecting particles of such an explosive to treatment for the purpose of applying to them a coating of a phlegmatizing wax which exhibits fluorescence, after the said treatment exposing the so treated particles of explosive to ultraviolet light, and while the said so treated particles of explosive are being exposed to said ultraviolet light, examining the said so treated particles of explosive to determine the distribution of said wax with respect to said particles of explosive from the fluorescence exhibited by the said wax which became associated with said particles of explosive as a result of the said treatment.

2,531,472

BATTERY CHARGER

Alfred M. Salazar, West Islip, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application July 13, 1946, Serial No. 683,314
7 Claims. (Cl. 320—23)



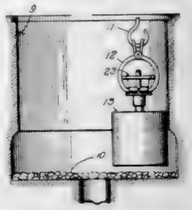
1. In a battery charger, a control circuit having two differently rated contactors, a first contactor to apply current to a battery at a high rate and a second contactor connected in series with a current limiting means to apply current at a low rate, said second contactor and current limiting means being connected in shunt to said first contactor whereby said second contactor will be ineffective upon closure of said first contactor, means responsive to a predetermined charge on the battery to open said first contactor to terminate the high charging rate whereby the charging will continue at said low rate through said second contactor and current limiting means, and timing means operative upon opening of said first contactor to actuate said second contactor at the end of a predetermined period of time to terminate the charging at said low rate.

2,531,473

METHOD AND APPARATUS FOR "MAKING BOTTOM" IN INGOT SOAKING PITS

David W. Saunders, East Chicago, Ill., assignor to Inland Steel Company, a corporation of Delaware

Application January 15, 1947, Serial No. 722,267
10 Claims. (Cl. 25—155.5)

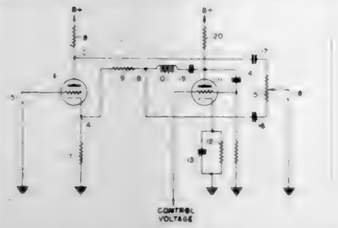


1. A coke bin for an ingot soaking pit comprising a heavy metal body member having a side wall and a bottom, said body member being provided with a plurality of distributed openings at its bottom, a closure for each of said openings,

and mechanism whereby said closures may be simultaneously opened by manipulation from above, said mechanism including a carrying member by which the bin may be carried in a level position by a crane which may also manipulate said mechanism.

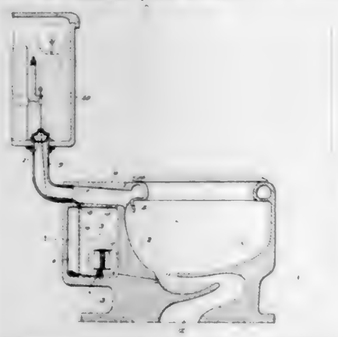
8. The method of making bottom in an ingot soaking pit which comprises filling a portable bin with coke braize, lowering the bin into the soaking pit adjacent the sidewall thereof, slowly moving the bin about the circumference of the pit and simultaneously releasing the coke slowly from the bin in such a manner as to distribute it evenly across the radius of the pit.

2,531,474
PHASE SHIFTING CIRCUIT
Harold L. Saxton, Washington, D. C.
Application May 21, 1946, Serial No. 671,342
3 Claims. (Cl. 323—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



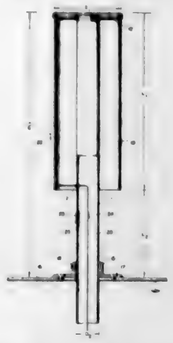
1. Apparatus for varying the phase without varying the amplitude of an alternating signal voltage comprising, phase inverting means converting the signal voltage to a pair of out of phase output voltages one of which has an amplitude larger than the other, a phase-shifting circuit connected to receive the large inverter output voltage, a center-tapped high resistance means, circuit means connecting opposite ends of said resistance means to receive respectively the smaller inverter output voltage and the phase shifting circuit output voltage, said center tap being the variable phase constant amplitude output terminal.

2,531,475
NONOVERFLOWING TOILET BOWL
Bartholomew E. Sceroler, Washington, D. C.
Application October 13, 1948, Serial No. 54,237
4 Claims. (Cl. 4—75)



1. In a flushing closet bowl having a flush tank, a body portion, a water inlet pipe connecting the body portion and flush tank, a valve in the flush tank controlling the flow of water to the body portion, a float chamber forming a part of the body portion, said body portion and water inlet pipe having openings establishing communication between the float chamber, water inlet pipe and body portion, whereby water enters the float chamber as the water level rises in the body portion, a float operating in the float chamber, and a flexible member extending through the water inlet pipe connecting the float and valve, closing the valve when the flexible member is tightened, upon movement of the float beyond a predetermined point within the float chamber.

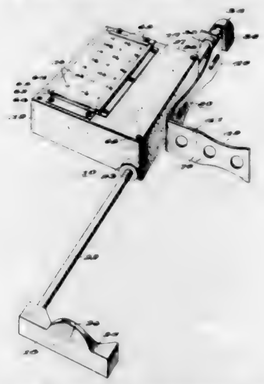
2,531,476
ULTRA HIGH FREQUENCY ANTENNA
Robert G. Schriefer, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application April 28, 1947, Serial No. 744,435
6 Claims. (Cl. 250—33)



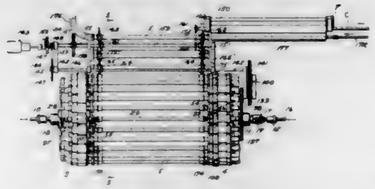
1. An antenna comprising a coaxial transmission line having an inner conductor and an outer conductor, a cylindrical member surrounding a portion of said outer conductor, a connecting element for electrically and mechanically connecting one extremity of said member to said outer conductor, means for connecting the other end of said member to said inner conductor, and a metallic surface electrically connected to said outer conductor, the length of said antenna extending beyond said surface being electrically equivalent to one quarter of the operating wave length of said antenna.

2,531,477
FOOT MEASURING DEVICE
Aesculapius Maurice Smith, Chicago, Ill.
Application September 26, 1949, Serial No. 117,795
6 Claims. (Cl. 33—3)

1. In a foot measuring device, a box-like housing, a set of individually displayable indicia indicative of shoe size carried by said housing, an elongated member secured adjacent one end and extending away from one side of said housing, a heel abutment plate fixedly mounted on said elongated member, an arm slidable parallel to said elongated member and extending into the housing through an opening therein opposite said one side, an actuating handle fixed to the outer end of said slidable arm for rotating the same, a toe plate assembly having its inner end secured to said arm for relative rotation in a fixed position lengthwise thereof, means cooperating with said slidable arm within said housing to selectively and individually display the corresponding size indicia upon predetermined rotation of said handle when the toe plate assembly through bodily adjustment has arrived at a determined position indicative of a foot size.



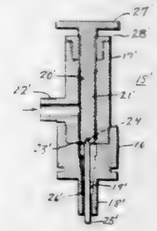
2,531,478
APPARATUS FOR STERILIZING
Horace L. Smith, Jr., Richmond, Va., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 19, 1946, Serial No. 704,481
13 Claims. (Cl. 99—361)



1. Sterilizing apparatus for canned comestibles comprising a substantially horizontal sealable vessel, means communicating with the ends of said vessel to transmit heating and cooling media longitudinally through the vessel, rotatable supporting means for rotating said vessel, tractive means within said vessel disposed to centrally retain the cylindrical surfaces of cans of comestibles in near-relationship to the internal surface of said vessel, closing means cooperating with said rotatable supporting means whereby the vessel is sealed, and means engageable by said closing means for rotating said vessel.

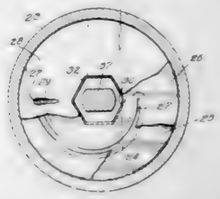
2,531,479
FLOW REGULATION VALVE
John A. Southern and Stephen B. Bogese, United States Army
Application December 22, 1944, Serial No. 569,384
2 Claims. (Cl. 137—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An increment flow control valve comprising in combination: an upper body portion and a lower body portion; a longitudinally disposed valve conduit in said upper portion; a coaxial longitudinally disposed flow conduit in said lower portion; a valve stem slidably mounted in said valve conduit and dimensioned to provide an annular channel space between said stem and the wall of said valve conduit; fluid inlet means in communication with said channel space; fluid outlet means at the lower end of said flow conduit; said flow conduit comprising a series of annular sections gradually decreasing in diameter toward the outlet end of said flow conduit; a flow control rod of uniform diameter slidably mounted in said flow conduit and dimensioned to extend throughout the length of said flow conduit and to provide an annular passage between said rod and the wall of the outlet end



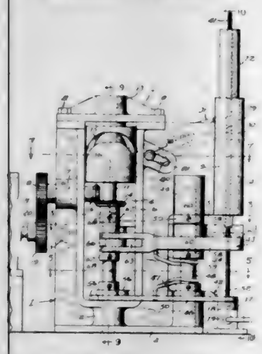
section of said flow conduit; the width of said passage being of the order of only a few thousandths of an inch; a valve seat in said valve conduit arranged for cooperation with the lower end of said stem; said passage, said flow conduit, and said channel space being positioned to be in inter-communication when said valve stem is in an unseated position; and combined adjusting and operating means in said upper body portion arranged to provide vertical adjustment for said rod and to effect the seating of said stem in said valve seat.

2,531,480
VARIABLE DRIP VALVE
Charles H. Sparklin and George Sporney, Chicago, Ill., assignors to Birtman Electric Company, a corporation of Illinois
Application January 10, 1946, Serial No. 640,237
8 Claims. (Cl. 251—86)



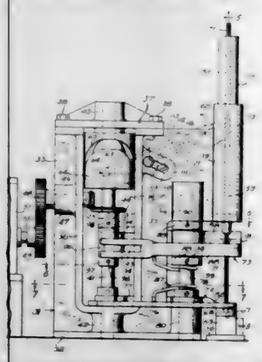
1. A valve comprising a body having a passageway for liquids therein, a hollow post on said body, a plate within said body and having an arcuate slot therein, means for preventing movement of said plate, a rotatable second plate on said first plate and having a slot therein arranged at an angle with the arcuate slot and registering therewith, at least one of said slots varying in width from a maximum at one end to a minimum at the other end, and a stem attached to said rotatable plate and extending through said hollow post for turning said rotatable plate, said stem having at least a portion of its outer surface separated from the inner surface of the hollow post to provide a liquid passageway between said surfaces to the interior of said body.

2,531,481
BRISTLE TUFTING MACHINE
John A. Starr, Riverdale, N. Y., assignor to M. W. Jenkins Sons, Inc., Cedar Grove, N. J., a corporation of New Jersey
Application November 30, 1946, Serial No. 713,341
9 Claims. (Cl. 300—2)



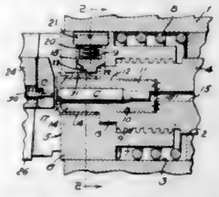
1. In a device of the character described the combination of a heating element, a reciprocable slide operative to successively advance the end of a rope of plastic bristle strands into contact with said heating element, means for clamping and holding said rope while said slide is returning to its initial position, means for successively cutting the advanced length from said rope, and means for operating said reciprocable slide, said gripping and holding means and said cutting means in timed relation to each other.

2,531,482
METHOD OF MAKING BRUSHES
John A. Starr, Riverdale, N. Y., assignor to M. W. Jenkins Sons, Inc., Cedar Grove, N. J., a corporation of New Jersey
Application November 30, 1946, Serial No. 713,342
4 Claims. (Cl. 300—21)



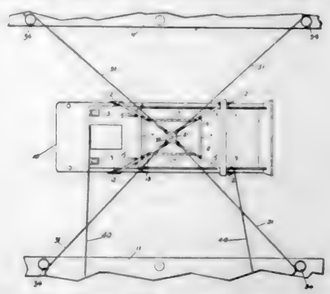
1. In the manufacture of brushes, the method of forming individual tufts consisting in periodically advancing a multiplicity of endless filaments which are combined into a rope and thereby bringing the end of the rope into contact with a heating element, clamping the end portion of the rope with said end in contact with the heating element and holding it clamped for a sufficient period to fuse the ends of the filaments, severing the rope at a point adjacent the clamp, and then releasing the clamp.

2,531,483
SAFETY FOR FIRING MECHANISMS FOR CANNON USING SEPARATE LOADING AMMUNITION
William Summerbell, Washington, D. C., Louis J. Rhein, Aberdeen, Md., and Owen D. Hoopes, Watervliet, N. Y.; Edith May Summerbell executrix of said William Summerbell, deceased
Original application July 10, 1945, Serial No. 604,286. Divided and this application February 16, 1949, Serial No. 76,742
4 Claims. (Cl. 89—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a firing mechanism for a gun having a breechblock and an obturator spindle having a first central axial flash passage leading through the breechblock thereof, said passage terminating rearwardly in a threaded counterbore, a spindle plug threaded into said counterbore and having an axial passage shaped to receive a primer cartridge and forming a continuation of said flash passage, a housing threadable on said spindle into fully-seated, gas-tight relation therewith, and safety means preventing the full insertion of a primer cartridge in said plug unless and until said housing is threaded on said spindle into fully-seated position thereon.

2,531,484
DEVICE FOR SWINGING SHIPS
Frederick J. Van Dusen and Walter A. Burke, New York, N. Y.
Application August 8, 1945, Serial No. 609,705
1 Claim. (Cl. 114—0.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In combination with a vessel having brackets on the sides thereof, elongated support members, said members being attached to said brackets, said members extending upwardly and inwardly toward a common point, a plate connecting the upper ends of said members, said members and said plate forming the general shape of a truncated pyramid, a spacing block on the upper side of said plate, said block having a pintle, a second plate, said second plate having a central aperture, said aperture receiving said pintle and serving as a bearing therefor, guys attached to said second plate, the free ends of said guys being attached to land structures, and guide lines attached to said vessel, whereby manipulation of said guide lines will permit turning of said vessel about the axis of said pintle.

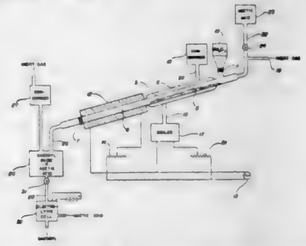
2,531,485
DIAZOTYPES COMPRISING AMINE SALTS OF SULFONIC ACID CONTAINING AZO COMPONENTS
William H. von Glahn, Loudonville, Lester N. Stanley, Delmar, and Margaret A. Hand, Albany, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 2, 1947, Serial No. 738,928
5 Claims. (Cl. 95—6)

1. A diazotype material comprising a light sensitive diazo compound suitable for two component diazotypes, a non-coupling amine which is capable of salt formation and is selected from the group consisting of alkyl and cyclo-alkyl amines and an azo coupling component selected from the group consisting of phenols and naphthols having at least one sulfonic acid group but no amino groups.

2,531,486
ORTHOPEDIC DEVICE
Andrew J. Weber, Milwaukee, Wis.
Application November 7, 1947, Serial No. 784,589
2 Claims. (Cl. 128—80)

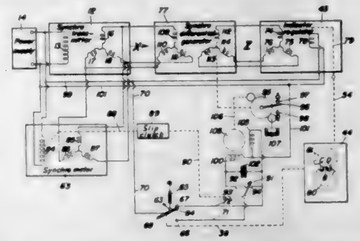
2. An orthopedic appliance, comprising: an upper strap adapted to be applied to the leg of the wearer above the knee; a lower strap adapted to be applied below the knee, a joint connection between said straps comprising hinged rigid members, said connection holding the lower strap in a fixed position substantially normal to the axis of the tibia; a shoe; and a solid resilient metal strip having substantial width to preclude edgewise bending thereof, flatwise anchored to the back portion of said lower strap and extending downwardly therefrom so as to lie flatwise along the back of the leg of the wearer and having a rigid connection at its lower end with the extreme rear portion of the shoe and with the plane of the bearing surface of the shoe in an upwardly tilted position and forming an acute angle with the resilient strip, said resilient strip although precluded from edgewise bending to prevent twisting motion of the shoe such that turning of the ankle of the wearer is prevented providing for movement of the shoe against the resilience of said resilient strip such that plantar and dorsal flexion of the foot is permitted.

2,531,487
ELECTROLYTIC PRODUCTION OF CACODYL
Benjamin Witten, Baltimore, Md., assignor to the United States of America as represented by the Secretary of War
Application March 29, 1943, Serial No. 480,954
12 Claims. (Cl. 204—72)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



12. The method of continuously converting cacodyl oxide to cacodyl which comprises dissolving the cacodyl oxide in a solvent, electrolytically, reducing the cacodyl oxide to cacodyl in the cathode compartment of an electrolytic cell, permitting the cacodyl to separate from the solvent, and withdrawing the cacodyl, said solvent being an acid selected from the group consisting of acetic acid and acetic anhydride.

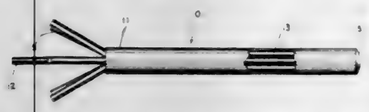
2,531,488
BACKLASH COMPENSATOR
Alfred A. Wolf, Dallastown, Pa.
Application November 30, 1945, Serial No. 632,093
3 Claims. (Cl. 318—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a control system of the type comprising means for transmitting a directionally significant electrical order signal and means responsive to said order signal for producing a mechanical positional response corresponding in direction to the said signal, the uncorrected backlash of said system occurring on a reversal in direction of said signal being such as to cause a predictable predetermined deviation between order and response, thus producing an effect equivalent to that which would be produced in a perfectly tight system by a modification of said order signal, a compensating arrangement comprising electrically responsive translating means for transmitting a predetermined motion in opposite directions of a magnitude corresponding to said predetermined

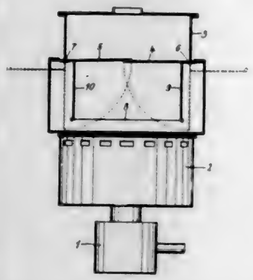
deviation, an electrical power supply, circuit control means for connecting said supply to said translating means for causing motion in opposite directions, means coupled to the signal-transmitting means for detecting the introduction of backlash into the system resulting from a change in direction of said transmitting means and for actuating said circuit control means and means coupled to the responsive means and actuated by the translating means for modifying said order signal in a compensatory manner, thereby to correct said backlash.

2,531,489
HAND TOOL FOR CRIMPING TUBE ENDS
Frederick Valentine Wood, Norfolk, Va.
Application September 18, 1946, Serial No. 697,619
2 Claims. (Cl. 81—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



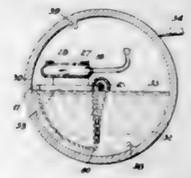
1. A tube crimping tool comprising a central rod, a plurality of rods surrounding said central rod and having rigid free ends extending at an angle to said central rod, and means securing said central and surrounding rods together in lateral engagement with one another as a unitary tool, said securing means comprising a close fitting cylindrical member in which said rods extend.

2,531,490
AUTOMATIC FIRE EXTINGUISHER FOR MOTOR CARBURETORS
Georg Christian Adalbert, Stabekk, near Oslo, Norway
Application February 14, 1947, Serial No. 728,586
In Norway February 23, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 23, 1964
2 Claims. (Cl. 169—2)



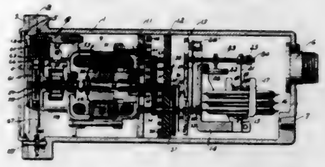
1. Apparatus for automatically extinguishing fires in carburators of internal combustion engines comprising a container for fire extinguishing material located above a carburator, the bottom of said container being provided with horizontal outlet flaps maintained in closed position by means of a heat frangible element, said flaps being pivoted in such a manner that when the said element is broken said flaps pivot downwards and direct a stream current of the extinguishing material against the carburator located therebelow.

2,531,491
TIMING SWITCH
Octavio Jose Alvarez, New York, N. Y., assignor to Alvarez Patent Corporation, New York, N. Y.
Application November 2, 1946, Serial No. 707,411
7 Claims. (Cl. 200—33)



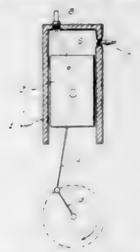
5. A timing switch comprising in combination an outer container; fluid contained in said outer container; a cup-shaped swimmer container being open at its top and arranged within said outer container; pivoting means securing said cup-shaped swimmer container to said outer container turnably between lifted position substantially above the level of said fluid contained in said outer container and submersed position substantially under the level of said fluid contained in said outer container; wick-type fluid conducting means by which said fluid is adapted to slowly flow from said outer container into said cup-shaped swimmer container while the same is slowly turning about said pivoting means from said lifted into said submersed position; manually operable turning means on said outer container for quickly turning said cup-shaped swimmer container about said pivoting means from said submersed into said lifted position during which turning the fluid contained in said cup-shaped swimmer container quickly flows through the open top of said cup-shaped swimmer container from the same into said outer container; and a mercury switch carried by said cup-shaped swimmer container and constructed so as to be automatically operated when said cup-shaped swimmer container reaches during its slow turning said submersed position.

2,531,492
RATE OF CHANGE INDICATOR
Walter Angst, Manhasset, and John H. Andresen, Jr., Port Washington, N. Y., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 27, 1946, Serial No. 712,548
4 Claims. (Cl. 73—179)



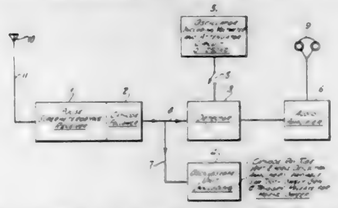
1. A rate of pressure change responsive instrument comprising, in combination, a pressure sensitive element movable in response to changes in pressure acting thereon; a reversible motor; control means actuated by said element for controlling said motor, said control means including a first member movable by said pressure sensitive element and a second member driven by said motor in a direction to follow the first member to cause the motor to move in proportion to the movement of the pressure sensitive element; and means responsive to the rate of movement of the motor including an element displaceable in proportion to the rate of movement, said rate responsive means including provision for averaging the response to the rate of movement of the motor.

2,531,493
METHOD OF CONTROLLING COMBUSTION IN INTERNAL-COMBUSTION ENGINES
Oscar Appel, Paterson, N. J.
Continuation of application Serial No. 495,722, July 22, 1943. This application August 7, 1946, Serial No. 688,981
2 Claims. (Cl. 123—1)



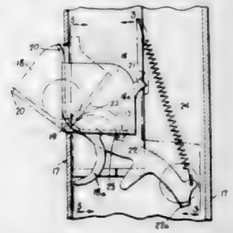
2. A method of operating an igniter-dependent internal combustion engine, the operation of which is subject to limitation due to detonation, said engine having a cylinder, piston and combustion chamber, which comprises compressing a combustible mixture of fuel and air in said combustion chamber, locally igniting said combustible mixture to form a flame front advancing to trap and highly heat end gases of combustible composition in a zone of said combustion chamber, said flame front tending to raise the temperature and pressure of said end gases sufficiently to cause spontaneous ignition and resultant detonation, and after ignition and said advancement of the flame front through a substantial portion of the combustion chamber on any cycle but prior to the spontaneous ignition of said end gases in said zone on the same cycle, injecting fuel into said zone to change the composition of said end gases and prevent spontaneous ignition and resultant detonation.

2,531,494
PULSE IDENTIFICATION
John B. Atwood and Grant E. Hansell, Riverhead, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application May 5, 1945, Serial No. 592,090
13 Claims. (Cl. 250—17)



8. Apparatus for use in identifying pulse signals, comprising a superheterodyne receiver suitable for pulse reception and having a circuit for converting the received pulses to direct current pulses of predetermined polarity, a multi-grid detector having an input grid coupled to the output of said receiver, an oscillator which is adjustable over a minimum frequency range of 8 kilocycles to 120 kilocycles, a connection from the output of said oscillator to another input grid of said detector, an audio frequency response circuit coupled to the output of said detector, an oscilloscope unit having the following circuit elements: a cathode ray tube having electron beam deflection elements, a sweep generator adjustable over a frequency range including a subaudible frequency up to the highest audio frequency, means for controlling the sweep generator from said direct current pulses, and a circuit coupling certain electron beam deflection elements of said cathode ray tube to the output of said receiver.

2,531,495
COMBINATION TOY BANK AND MUSIC BOX
Edmund W. Baggott, Brooklyn, N. Y., assignor to Ideal Novelty & Toy Co., Hollis, N. Y., a corporation of New York
Application July 29, 1947, Serial No. 764,377
2 Claims. (Cl. 194—45)



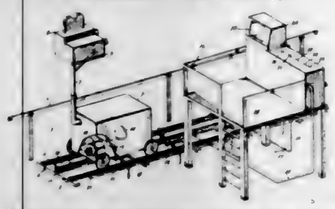
1. A combination toy bank and music box comprising a housing having a lower coin compartment therewithin, a pin-cylinder type music works having a control lever normally urged to playing position, said music works being mounted above said coin compartment, a coin loader pivoted to said housing for introducing coins therewithin, a tripper pivoted to said housing and normally biased upwardly by biasing means, said tripper having a stop shoulder against which said control lever abuts in non-playing position, a portion of said tripper being in the path of a coin dropped from said coin loader to said coin department, whereby to depress said tripper and allow said control lever to clear said stop-shoulder and assume the playing position and cam means fixed to said coin holder for moving said control lever to the non-playing position upon tilting said coin holder forwardly.

2,531,496
METHODS OF FORMING A PLASTER MOLD OR CORE FOR CASTING METALS
Xarifa L. Bean, Yellow Springs, Ohio, assignor to Antioch College, Yellow Springs, Ohio, a corporation of Ohio, and Morris Bean, Xarifa Bean, Algo D. Henderson, Arthur E. Morgan, and William Beatty, all of Yellow Springs, Ohio
No Drawing. Application November 4, 1949, Serial No. 125,645
6 Claims. (Cl. 22—188)

1. The method of forming a plaster mold which includes forming a desired shape from a mixture comprising plaster of Paris, an inert filler, a water-soluble alkali metal silicate selected from the class consisting of sodium silicate and potassium silicate as the essential expansion control agent in an amount between 0.1% and 1.0% of the dry weight of the plaster composition, and

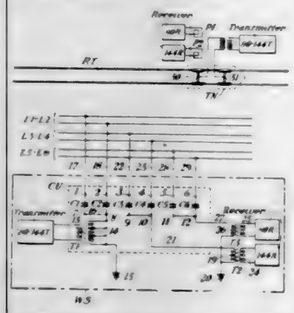
water; setting the plaster; dehydrating the set plaster to convert calcium sulfate di-hydrate to calcium sulfate hemi-hydrate and to leave free water distributed throughout the mold; thereafter rehydrating the hemi-hydrate to the di-hydrate; and then drying the mold to remove practically all of the remaining free water from the plaster, the temperature to which the plaster is subjected throughout the entire plaster conditioning treatment and prior to casting molten metal into the mold not exceeding 500° F.

2,531,497
TELEVISION VIEW FINDER
William E. Beatty, Los Angeles, Calif., assignor to Motoview, Inc., Carson City, Nev., a corporation
Application April 14, 1947, Serial No. 741,210
10 Claims. (Cl. 178—6)



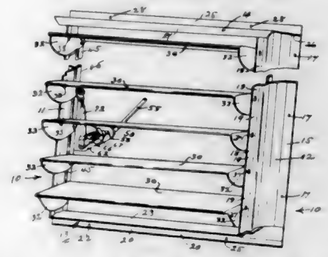
1. Television apparatus comprising rails, a carriage having wheels riding along said rails, means comprising a remote control for controlling the speed of said carriage, a television pick-up and a low power television radio beam transmitter therefor on said carriage, a television receiver for said transmitter local to said remote control, and an antenna circuit for said receiver, said antenna circuit having a plurality of antennae arranged in a path adjacent said rails in close receiving relation to said transmitter as it moves along said track.

2,531,498
WAYSIDE STATION LINE COUPLING MEANS FOR TRAIN COMMUNICATION SYSTEMS
Edgar W. Breisch, Edgewood, Robert G. Reed, Swissvale, and Lawrence R. Golladay, Forest Hills, Pa., assignors to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 20, 1947, Serial No. 729,680
3 Claims. (Cl. 179—82)



1. In a simplex inductive carrier railway train communication system which uses the existing line wires strung on the usual pole line along a railway right-of-way as a transmitting channel due to the distributed impedance of the line wires to ground and the distributed mutual inductance of the line wires and to which channel train carried circuit elements are mounted for inductive relation thereto, the combination comprising, a transmitter and a receiver of carrier communication current located at a given wayside station, a plurality of paralleling line wires which form for their entire length a transmitting channel for carrier current due to the distributed impedance of the separate line wires to ground and due to the distributed mutual inductance of the line wires because of their parallel relationship, an output and an input transformer each of which is provided with a primary and a secondary winding, said primary winding of said output transformer connected to said transmitter and said secondary winding of said input transformer connected to said receiver, a first circuit including said secondary winding of said output transformer and a blocking capacitor in series connected between a selected one of said plurality of line wires and ground, and a second circuit including said primary winding of said input transformer and another blocking capacitor in series connected between a different selected one of said plurality of line wires and ground.

2,531,499
SLAT OPERATING MECHANISM
Lemual G. Brown, Oklahoma City, Okla.
Application June 1, 1945, Serial No. 597,010
8 Claims. (Cl. 268—96)



6. In an awning having a frame with horizontally positioned axially pivotable shutter slats mounted therein, said slats having an actuating bar pivotally connecting their ends whereby reciprocation of the bar simultaneously moves the shutters, the combination with a horizontal crank-shaft rotatably mounted to the frame adjacent the slat ends, and with operative connections between the shaft and the bar for reciprocating the bar by rotation of the shaft, of: a clamp member carried by the frame and engaging the shaft; and means for selectively adjusting the frictional engagement of the clamp member with the shaft, and thereby holding the slats in various partially open positions.

2,531,500
SOLENOID UNIT
Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 13, 1948, Serial No. 8,209
3 Claims. (Cl. 175—341)

1. In combination with a solenoid unit, of an axially movable tubular armature; a nut threadedly engaging one end of the armature and having a reduced portion to provide a shoulder; interengaging means on said reduced portion and the armature to secure the nut in position of screw threaded adjustment; a removable plate slidably mounted on the reduced portion; interengaging means on said plate and reduced portion of the nut to prevent turning of plate relative the nut; interengaging means on the

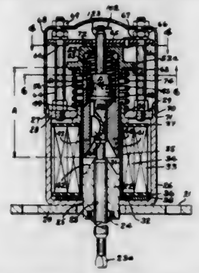
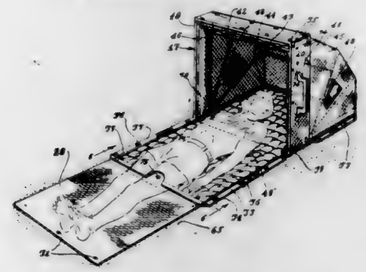


plate and a stationary part of the unit to prevent turning of the armature relative to the unit; and biasing means supported by the unit for urging the plate against the shoulder and thereby prevent axial displacement of the plate from the nut.

2,531,501
PORTABLE SHELTER
Paul T. Cline, St. Petersburg, Fla.
Application November 29, 1948, Serial No. 62,511
6 Claims. (Cl. 135—7.1)



1. A combination portable shelter and carrying case comprising, a four-walled framework provided with snap fastening means secured thereto adjacent perimetral edges of its exterior surfaces, and a textile element removably secured substantially at its mid portion to a bottom wall of said framework and provided with mating snap fastening means removably securable to said first-mentioned snap fastening means to form a carrying case, said textile element forming a reclining mat when in open and flat arrangement.

2,531,502
OXYALKYLATED DRASTICALLY-OXIDIZED CASHEW NUTSHELL LIQUID, AND METHOD OF MAKING SAME
Melvin De Groote, University City, and Owen H. Pettingill, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application January 9, 1948, Serial No. 1,483
10 Claims. (Cl. 260—521)

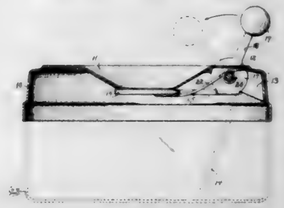
1. A method for making a new composition of matter which consists of (1) subjecting treated cashew nutshell liquid to the action of a gaseous oxygen-containing medium at a temperature not in excess of 120° C. and not over 200 pounds pressure, for a period of time varying from several hours to several days, and sufficient to produce drastic oxidation as measured by the following indicia:

(*a*) A substantial increase in the acid value,
(*b*) A substantial increase in the saponification value,
(*c*) A substantial decrease in the hydroxyl value,
(*d*) A substantial increase in viscosity, and
(*e*) A change in color in the direction of darkening,

followed by (2) oxyalkylation at least sufficient to introduce an appreciable hydrophile property.

6. The product resulting from the process of claim 1.

2,531,503
TRAP DOOR HOPPER TOP
Marion Talbert Dick, Des Moines, Iowa, assignor to Cadet Smokestands Company, Des Moines, Iowa, a business trust
Application January 3, 1947, Serial No. 720,113
5 Claims. (Cl. 220—20.5)

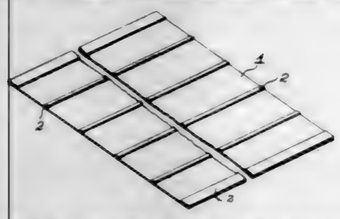


1. In combination with a hopper top having a downwardly extending wall terminating in a receiving opening, and a flat horizontal portion adjacent the downwardly extending wall having a slit opening with its length extending in a plane that bisects said receiving opening, a trap door comprising, a main flat portion capable of closing said receiving opening when in a closed position, a horizontal tongue portion on said main portion, a bearing ear on said tongue portion, a second bearing ear on said tongue portion having its upper portion circular and extending through said slit opening, a means for pivoting said two bearing ears to said hopper top, a means for yieldingly holding said trap door in a closed position, and a handle means on that portion of said second ear that extends through said slit opening.

2,531,504
SEPARATOR FOR ELECTRIC STORAGE BATTERIES
Edward R. Dillehay, Glen Ellyn, and Robert D. Schuetz, Chicago, Ill., assignors to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application June 12, 1944, Serial No. 539,864
1 Claim. (Cl. 136—145)

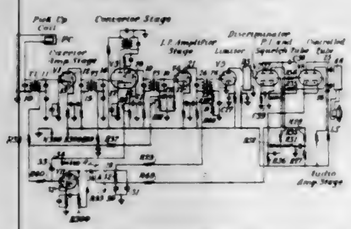
A storage battery separator consisting of an absorptive felted fibrous sheet containing at least 85% of cellulosic fibers, said sheet being saturated with partially polymerized furfuryl alcohol containing a wetting agent, said sheet containing resin solids therein in the amount of between substantially 25% and substantially 70% of the combined weight of the fibrous sheet and resin, the saturated sheet having sufficient strength for handling in the building of a storage battery, and and having a skeleton of felted fibers and a resi-

nous body associated therewith as an impregnant and having sufficient continuity to be self-sustaining, in which the porosity is due in preponderant degree to the wicking action of the said cellulosic fibers, said separator in use being subject to further polymerization of the resin by



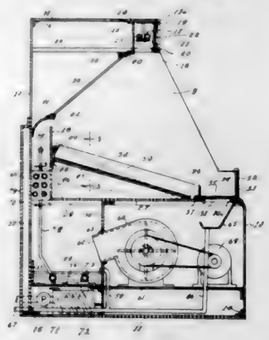
reason of the catalytic action of the battery acid and an increase in porosity due to at least partial destruction of the cellulosic fibers through the action of battery acid thereon, the penetration of said separator by the battery acid being facilitated by said wetting agent.

2,531,505
NOISE SUPPRESSION MEANS FOR COMMUNICATION RECEIVING APPARATUS
Kenneth E. Doriot, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application October 8, 1947, Serial No. 778,615
3 Claims. (Cl. 250—20)



1. In a receiver responsive to frequency modulated communication current and subject to noise energy and including a frequency converter stage, an amplifier limiter stage, a discriminator stage and an audio amplifier stage; the converter stage including an electron tube having a screen grid as well as input and output electrodes, the screen grid being connected to a voltage source and provided with a load resistor, the amplifier limiter stage and the audio amplifier stage each including an electron tube having input and output electrodes, an input circuit including a bias unit comprising resistance and capacitance in multiple to couple the output electrodes of the converter stage tube to the input electrodes of the limiter stage tube, and the input electrodes of the audio amplifier stage tube being coupled to the output electrodes of the limiter stage tube through the discriminator to create at the output electrodes of the audio amplifier stage tube a wave corresponding to the communication current and noise energy applied to the input electrodes of the converter stage tube, the improvement with the foregoing elements comprising; a switching electron tube having an anode, a cathode and a control grid; a circuit including a current source and resistance connected to said anode and cathode, means to connect said anode cathode circuit of said switching tube to the input electrodes of the audio amplifier stage tube to bias that tube according to the anode current of said switching tube, a first circuit means including resistance to connect the bias unit of the limiter stage tube to said control grid of the switching tube, a second circuit means including a capacitor and a rectifier to connect the screen grid of the converter stage tube to said control grid of said switching tube, and said first and second circuit means connected with such polarity that a bias voltage which is the difference between a voltage derived from the limiter stage tube input circuit due to the communication current and a voltage derived from the screen grid of the converter stage tube due to noise energy is applied to said control grid of said switching tube.

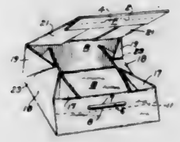
2,531,506
REFRIGERATED DISPLAY CASE HAVING HUMIDIFYING MEANS
Harry Geneck, Spokane, Wash.
Application October 29, 1946, Serial No. 706,474
4 Claims. (Cl. 62—89.5)



1. A display stand comprising in combination a casing having a rear wall and a lower front, a top wall extending forwardly from the top of the rear wall, a display platform disposed between the front and back walls and spaced from both of them, said platform having an upstanding rear wall, an air distributing box beneath said platform, a fan beneath the platform for forcing air into said box, a screened inlet between the front wall and the front edge of the platform for air to the fan, the front wall having a shield thereon extending substantially above the inlet, said platform having a substantially lower shield at its forward edge for separating produce on the platform from said inlet, an outlet channel for said box extending upwardly between the rear wall of the casing and the rear wall of the platform, a top shield extending forwardly from the back wall of said channel in proximity to and directly over the rear wall of the platform, said shield including adjustable means for varying the amount of air delivered to a particular section of the platform, means in said channel to cool the air, and spray heads in the channel for supplying moisture to the air.

2,531,507
TRAY TYPE COLLAPSIBLE CARTON
Charles H. Goodyear, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application November 13, 1948, Serial No. 59,837
2 Claims. (Cl. 229—33)

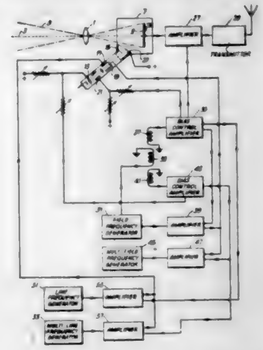
1. A carton of the collapsible type adapted to be set up from a single blank of material comprising a tray part having a bottom tray wall, a front tray wall, a rear tray wall and opposite side tray walls; a cover part having a top cover wall hingedly connected to the upper edge of said rear tray wall, a front cover wall adapted to overlie the front tray wall and opposite side cover walls adapted to overlie the respective side tray walls; the front and the rear tray walls each consisting of a panel hingedly connected to the bottom tray wall; each of said side tray walls consisting of a side tray wall panel hingedly connected to a side edge of said bottom tray wall and a pair of connecting flaps adapted to be adhesively secured to such side tray wall panel, one of said connecting flaps being hingedly connected to a side edge of the rear tray wall panel and being unattached to the rear edge of the associated side tray wall panel, and the other of said connecting flaps being hingedly connected to a side edge of the front tray wall panel and being unattached to the front edge of the associated side tray wall panel, each of said connecting flaps having a score line extending diagonally across



the flap from a corner of the bottom tray wall which divides the connecting flap into two substantially triangular sections, the outside face of each triangular section adjacent the associated side tray wall panel being adapted to be adhesively secured to the outside face of such associated side tray wall panel; means for locking said cover part to said tray part comprising a locking flap hingedly connected to the lower edge of said front cover wall and foldable inwardly of said front cover wall so as to project upwardly between said front cover wall and said front tray wall when the cover part is closed, said front tray wall having a horizontally extending elongated opening for engaging said locking flap; and a flap hingedly connected to and foldable inwardly from the upper edge of the front tray wall so as to project downwardly and cover said opening, said latter flap being substantially but slightly less than the width of said front tray wall to engage said side tray walls adjacent said front connecting flaps when set up to hold said side tray walls in position.

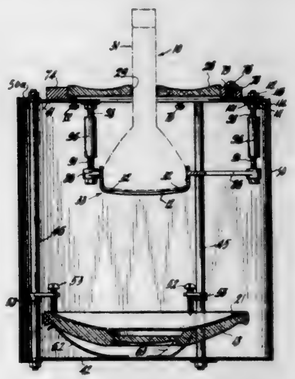
2,531,508
COLOR TELEVISION SYSTEM
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 30, 1946, Serial No. 687,054
18 Claims. (Cl. 178—5.4)

1. In a television system having a camera tube with a photo-sensitive surface and an electron beam for scanning said surface, a method for removing electrical non-uniformity from said photo-sensitive surface during the interval between each successive field scanning comprising the steps of increasing the intensity of said beam during said interval, broadening said electron beam during said interval, sweeping said photo-sensitive surface with said broadened beam during said interval, and blocking the signal output



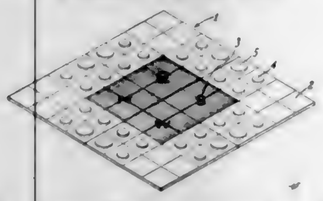
of said photo-sensitive surface during said interval.

2,531,509
SCHMIDT TELEVISION PROJECTION SYSTEM
Gustave L. Grundmann, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 29, 1948, Serial No. 51,776
6 Claims. (Cl. 88—57)



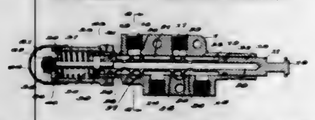
4. A projector for projecting luminous images presented on the face of a cathode ray tube comprising; a mirror having a spherical reflecting surface, an aspheric correcting lens, a supporting plate member for said correcting lens forming the top of said projector, a ring on said plate member within which said correcting lens is nested, means for clamping said ring in a desired position on said plate member, screw means threaded in said plate member on which said correcting lens rests to provide a leveling adjustment for the lens, a second plate member forming the opposite end of said projector, means for spacing and joining said plate members, brackets carried by said last named means for engaging the spherical reflecting surface of said mirror, screw threaded into each of said brackets, and resilient means for urging the spherical reflecting surface of said mirror into contact with said reflecting surface engaging means.

2,531,510
GAME BOARD AND CARDS ADAPTED TO BE UTILIZED THEREWITH
Woodrow A. Heacock, Los Angeles, Calif.
Application October 2, 1945, Serial No. 619,813
3 Claims. (Cl. 273—131)



1. In a game, the combination of a playing field divided into a plurality of contiguous outlined areas including at the center of the playing field a plurality of adjacent ones of said areas defining a plurality of adjacent objective zones, each zone including more than one of said areas and bearing a symbol differentiating said zone from adjacent objective zones, a plurality of sets of playing pieces, one for each player adapted to be moved over the playing field toward an objective zone assigned to a player, and four cards, two of which bear on their faces a symbol corresponding to a symbol on one of said zones and two of which bear on their faces a symbol corresponding to a symbol on another of said zones, for designating to each player the objective zone toward which his playing pieces must move, and for pairing players as partners whose pieces are to be directed toward the same zone.

2,531,511
FOUR-WAY, SLIDE, SELECTOR VALVE
Thomas C. Hill, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application September 27, 1946, Serial No. 699,838
2 Claims. (Cl. 121—46.5)



1. A selector valve for use in a hydraulic system, comprising a valve body having a substantially smooth, cylindrical bore, a valve member axially slidable within said bore, outlet ports in said body affording connections for pressure and return lines from said valve to a hydraulic cylinder, each outlet port extending from the exterior of said body and intersecting said bore at one side thereof and extending through into the opposite wall thereof, a pressure port communicating with said bore for supplying pressure fluid thereto, and a return port communicating with said bore for discharging fluid therefrom, said valve member comprising a cylindrical member of substantially the same diameter as said bore forming therewith a sliding fit, said valve member being undercut to provide a plurality of axially spaced flanges, forming annular chambers therebetween including a center chamber spanning said pressure port and a pair of return chambers spaced axially therefrom and communicating with said return port, said outlet ports being located along said bore on each side of said pressure port, said flanges including a flange on said valve member adjacent each outlet port to prevent the flow of fluid from said high pressure chamber to either outlet port when the valve is in neutral position, and a flange on said valve member adjacent each outlet port and spaced from said first mentioned flange to afford open communication between the portions of said outlet port on opposite sides of said bore and to permit communication between said portions of said outlet port and the adjacent return chamber when the valve member is in the neutral position and arranged upon axial displacement of said member in one direction to close communication between said outlet port and said chamber before said first mentioned flange moves to a position to pass fluid pressure from said pressure chamber to said outlet port, the other outlet port upon such displacement of said member being maintained in communication with said return chambers.

2,531,512
PROCESS FOR MAKING SORBIC ACID ESTERS
Raymond I. Hoaglin and Donald H. Hirsh, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application November 5, 1946, Serial No. 707,976
6 Claims. (Cl. 260—486)

1. Process for making an alkyl sorbate which comprises passing the vapors of an alkyl ester of a 3,5-dialkoxyhexanoic acid through a reaction zone containing a catalytically active form of silica at a temperature of 250° C. to 500° C., the alkyl group in said substituted alkoxy radicals being normal and containing from one to four carbon atoms, and recovering an alkyl sorbate from the reaction mixture.

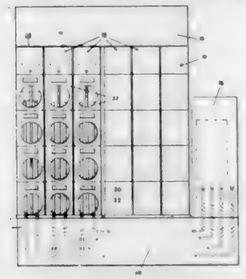
2,531,513
PROCESS FOR THE PRODUCTION OF TEXTILE MATERIALS
Thomas Jackson, Spondon, near Derby, England, assignor, by mesne assignments, to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 5, 1945, Serial No. 586,815. In Great Britain April 20, 1944
11 Claims. (Cl. 18—54)

1. Process for the production of high tenacity artificial yarns suitable for coating with rubber, which comprises applying to a cellulose acetate yarn while in a swollen condition a finely divided substance which is insoluble in water but soluble in dilute acids, stretching the treated yarn while it is softened by contact with an aqueous medium at a temperature above 100° C., and washing the stretched yarn with a dilute acid whereby the finely divided material is removed from the yarn.

2,531,514
METER MOUNT
Helge Jensen, Flushing, N. Y., assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J.
Application April 11, 1945, Serial No. 587,808
10 Claims. (Cl. 175—222)

1. An electric-meter panel for a plurality of metered lines, said panel comprising a receptacle for said lines and provided with a plurality of sockets for a plurality of meters for said lines, said sockets being arranged in alignment in a row, current-responsive devices for said lines, respectively, mounted at one end of said row of meter sockets, each of said sockets having a

terminal adapted to be electrically connected to the output side of a companion meter, and a



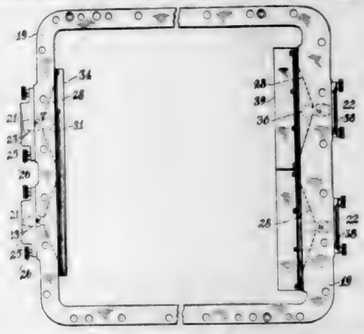
terminal adapted to be electrically connected to one of said current-responsive devices.

2,531,515
SCREW HOLDING SCREW DRIVER
Bennie J. Johnson, Bridgeport, Conn.
Application April 26, 1946, Serial No. 665,123
5 Claims. (Cl. 145—50)

1. A screw driver having a spring arm overlying its bit portion with an intermediate portion and end portion thereof in spaced relation to the bit portion, the tip of the bit portion and the spaced end of the arm being juxtaposed and insertable in the slot of a screw to grip the latter and retain it on the bit portion; and adjustable means carried by the bit and passing through the intermediate spaced part of the arm for securing the arm to the bit and for varying the gripping force exerted by the tip of the bit portion and the end of the arm on the screw slot, the said arm being pivotally movable on the bit portion to swing the end of the arm either adjacent the tip of the bit portion for engagement with a screw, or away from the said tip to an inoperative non-screw engaging position.

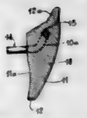
2,531,516
INSTRUMENT PANEL ILLUMINATION
Philip J. Kayatt, New York, N. Y.
Application October 6, 1945, Serial No. 620,714
3 Claims. (Cl. 240—2.1)

1. An instrument panel construction comprising a casing for containing the dials, a frame removably secured around the periphery of the casing and carrying illuminating means, a cover secured to said frame and having a transparent face through which the dials may be seen, said frame having recesses extending through each side each recess being open at its inner end toward the other side of the frame and at its outer end toward the outside of the frame, an illuminating bulb mounted in each recess insertable from the outside thereof for directing its rays across the face of the dials, a pair of reflector plates mounted in the inner part of each recess diverging from the bulb in said recess, and a set of narrow parallel directing plates carried by said frame and extending across the inner face of each recess, said parts being so arranged that the reflected rays of light from the bulbs on each side of the frame overlap each other whereby light from each side



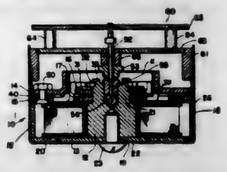
of the frame is divergently directed across the face of the dials to uniformly illuminate substantially all the dials.

2,531,517
ARTIFICIAL TOOTH AND MEANS FOR SECURING SAME
Willy Kleiner, Rapperswil, Switzerland
Application April 17, 1947, Serial No. 742,129
In Switzerland April 30, 1946
5 Claims. (Cl. 32—10)



1. An artificial tooth of an artificial resinous substance having a lingual and a labial surface and a cervical portion, and a single wire of stainless steel bent substantially into U-shape having a knee portion and a pair of legs, said tooth also having a massive mid-portion which tapers towards the cervical portion, said wire being adapted for securing the tooth to a denture and having the knee portion of the wire bent toward said cervical portion in the mid-portion of the tooth, with the legs of the wire protruding from the lingual surface of the tooth.

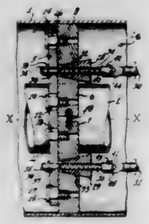
2,531,518
SYNCHRONOUS MOTOR
John H. Kuhlmann, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 28, 1949, Serial No. 83,900
13 Claims. (Cl. 172—278)



1. In a synchronous motor, a magnetic core with an energizing winding thereon, a magnetic field structure energized by said magnetic core and including a plurality of inner and outer pole piece rings, said inner and outer pole piece rings being located at one end of said magnetic core

and each having pole pieces thereon which are positioned axially of said magnetic core and extend in the same direction, shading means located between said pole piece rings to provide rings of shaded and rings of unshaded pole pieces, said outer and inner pole piece rings being so positioned that the pole pieces thereon form pairs of shaded and unshaded pole pieces with a greater spacing between said pairs than between the pole pieces of each pair, a cup-shaped structure of magnetic material connecting one end of said magnetic core to said outer pole piece rings, means connecting said inner pole piece rings to the opposite end of said magnetic core, and a rotor magnetically associated with said magnetic field structure.

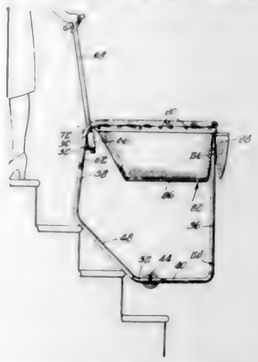
2,531,519
SHORTING PLUG FOR DIPLEX TRANSMISSION LINES
George A. Kumpf, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1948, Serial No. 11,503
5 Claims. (Cl. 178—44)



1. A shorting-plug for altering the electrical length of a transmission line of the type comprising a hollow outer conductor having a longitudinal axis and containing a plurality of inner conductors arranged in spaced relation parallel to said axis, said device comprising: a support of a length less than the inside diameter of said outer conductor and of a width sufficiently narrow to be accommodated between said inner conductors, a plurality of complementary yoke pieces mounted for relative movement on said support and adapted to receive said inner conductors, a plurality of arcuate members mounted for relative movement on said support and adapted to extend across said axis in the space between said inner conductors and the inner surface of said outer conductor, a wedge mounted on said support between each of said yoke pieces and the arcuate member which lies adjacent thereto, and means for actuating said wedges whereby to clamp said yoke pieces about said inner conductors and simultaneously to urge said arcuate members into engagement with the inner surface of said outer conductor.

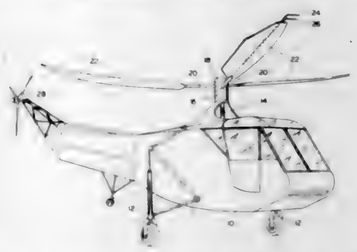
2,531,520
HAMPER
Harry G. Lankford, Jr., Wichita, Kans.
Application May 3, 1946, Serial No. 667,171
16 Claims. (Cl. 280—51)

1. A portable hamper, including in combination a frame having an upper receptacle support for supporting a receptacle throughout substantially its entire periphery, a base spaced below the support, a pair of frame members extending between opposite margins of the support and the base, one of said frame members being substantially vertical between one of said margins of the support and the base, the other of said frame members having a vertically extending upper



portion depending from the other of said margins and a lower portion extending at an angle to the vertical to form a runner surface, and a receptacle carried by said support.

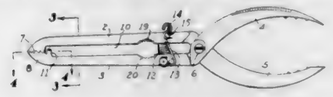
2,531,521
AIR-SPEED INDICATING SYSTEM FOR ROTARY WINGED AIRCRAFT
Edwin A. Link, Binghamton, N. Y.
Application October 16, 1943, Serial No. 506,461
2 Claims. (Cl. 73—182)



1. An airspeed indicating system for a rotary winged aircraft comprising dynamic and static pressure intakes on a wing of the aircraft, a valve connected to the intakes and dynamic-static pressure responsive means connected to the valve, means to actuate said valve in synchronism with the rotation of the wing to connect said intakes to said dynamic-static pressure responsive means only when said wing is in a selected position about its vertical axis of rotation, a movable element positioned by said dynamic-static pressure responsive means, means responsive to the speed of rotation of said wing for modifying the position of said movable element according to the speed of rotation of said wing, and an airspeed indicator operated by said movable element.

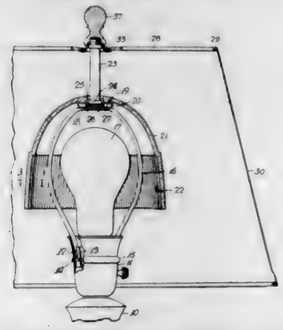
2,531,522
PLIERS
Abraham M. Malouf, Burbank, Calif.
Application May 23, 1949, Serial No. 94,777
2 Claims. (Cl. 43—53.5)

1. A pliers construction, including a pair of hinged jaws each having a nose end, the nose end of each jaw being formed with transverse teeth and each jaw being provided with a longitudinal groove bisecting said teeth, and a pin carried by one jaw and adjacent the teeth there-



of and positioned at one side of the longitudinal groove therein.

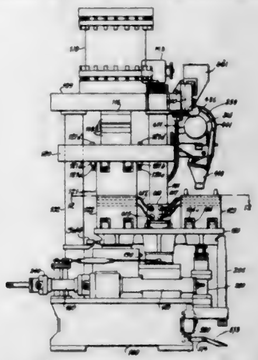
2,531,523
LAMP SHADE MOUNT
Carl Moser, Larchmont, N. Y., assignor to Lightolier Company, New York, N. Y., a corporation of New York
Application September 1, 1945, Serial No. 614,063
1 Claim. (Cl. 240—128)



A lamp comprising an upright, a shade coaxially supported thereon, said upright having a nipple above said shade, a finial threaded upon said nipple and clamping said shade in position, said upright having a peripheral bead below said nipple, the shade having a spherical segmental hub shell of resilient sheet metal secured thereto and rising therefrom and having an opening therethrough of diameter smaller than said bead and through which said nipple protrudes, said finial having a socket at its lower end accommodating the upper part of said hub and presenting an edge of diameter larger than said bead but smaller than said hub and serving to clamp the hub against the bead in any position of leveling adjustment of the shade, said segmental hub yieldingly resisting the clamping pressure exerted by the finial whereby, though the upright be not accurately vertical, the shade may yet be mounted and secured in true level position.

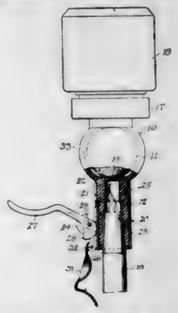
2,531,524
MOLDING MACHINE
Charles A. Nichols, Max E. Todd, William A. Fletcher, and Clarence J. Keller, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 17, 1947, Serial No. 774,592
4 Claims. (Cl. 18—30)

1. A molding machine comprising a conveyor having a plurality of molds each having a compression chamber for receiving molding material and a ram in the compression chamber and movable to locate one mold at a loading station and another mold at a work station, a mold at the work station adapted to engage with the mold located by the conveyor at the work station, a control solenoid, an hydraulic system under control of the solenoid and operable automatically, when the solenoid is energized, to effect in sequence the closing of the molds, the movement of a ram to inject material in the compression chamber of a mold into mold cavities, and operable automatically, when the solenoid is deenergized, to effect in sequence retraction of the ram, separation of the molds and indexing of the conveyor, a doser having provisions for heating molding material and delivering it to the compression chamber of the mold at the loading station, a first timer rendered operative in response to completion of indexing, a second timer rendered



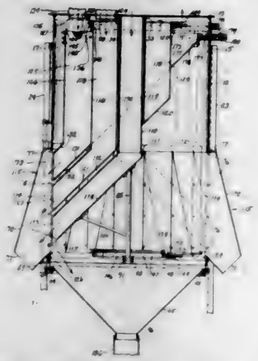
operative in response to timing-out of the first timer, a third timer rendered operative in response to timing-out of the second timer and timing-out prior to the next indexing operation, solenoid control means responsive to completion of indexing for effecting energization of the solenoid and responsive to timing-out of the second timer for effecting deenergization of the solenoid and doser control means responsive to timing-out of the first timer for rendering the doser operative and responsive to timing-out of the third timer for rendering the doser inoperative.

2,531,525
FOUNTAIN PEN FILLING DEVICE
George W. Oakes, Crystal City, Mo.
Application January 11, 1947, Serial No. 721,515
6 Claims. (Cl. 222—63)



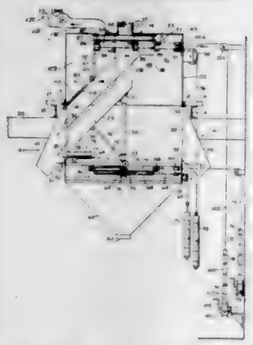
6. A device for filling an article from a receptacle containing a liquid, including a resilient bulb having an inlet and an outlet for the liquid, and a compressible resilient cellular body positioned within and immediately adjacent the inner surface of the walls of said bulb, so that upon compression of the bulb the same will contact and compress the cellular body, thereby expelling quantities of the liquid through the outlet for the purpose stated.

2,531,526
GRAIN DISTRIBUTOR
Roy I. Patterson, Minneapolis, Minn.
Application December 10, 1945, Serial No. 634,026
8 Claims. (Cl. 193—23)



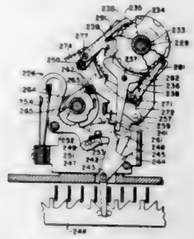
2. A grain distributor, comprising two cylindrical casing members of the same diameter, means adjustably holding the two members with their surfaces coaxial and their adjacent edges suitably spaced apart, a multiplicity of outlet members removably held between said edges so as to form a complete circumferential series of said outlet members, and a transfer spout within said casing member adapted to be connected with the discharge spout of an elevator leg and having its discharge end positioned to coincide with a part of the opening into an outlet member.

2,531,527
GRAIN DISTRIBUTOR
Roy I. Patterson, Minneapolis, Minn.
Application August 19, 1946, Serial No. 691,619
1 Claim. (Cl. 193—23)



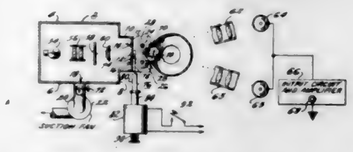
In combination with a grain distributor embodying a cylindrical casing having a multiplicity of outlet hoppers secured about the extent of the cylindrical wall thereof and a rotatable transfer spout within the casing, gravity means adapted to apply force to said transfer spout to move it in one direction, means fast on the transfer spout including a rod and a spring thereon for forcing it outwardly to engage a side wall of an outlet hopper for holding the transfer spout in fixed position facing the opening into a selected outlet hopper, means connected with the transfer spout which tends to rotate the transfer spout in one direction to cause the end of the rod to be held in engagement with a side wall of a hopper, and a cord directly connected with the inner end of the rod, whereby applying force to said cord first withdraws the rod from engagement with said side wall and thereafter acts to rotate the transfer spout in the opposite direction from that of the first named rotating means, release of the force applied to said cord at any point when the rod is opposite the opening into a selected hopper acting to release the rod and to permit the first named rotating means to rotate the transfer spout until the rod engages the side wall of said newly selected hopper.

2,531,528
MECHANICAL CIPHERING UNIT
Louis M. Potts, deceased, late of Evanston, Ill., by Martha W. C. Potts, executrix, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application July 5, 1946, Serial No. 681,444, now Patent No. 2,504,044, dated April 11, 1950. Divided and this application September 3, 1949, Serial No. 113,918
8 Claims. (Cl. 178—22)



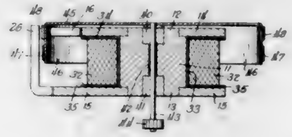
1. In a telegraph ciphering device, a set of code controlled members, a set of key code controlled members, a set of transmitting members controlled jointly by said sets of code controlled members and key code controlled members for transmitting signals determined jointly by said sets of code controlled members and key code controlled members, a set of key code drums for controlling said key controlled members, a stepping device, a variable feed control operated by said stepping device, and a second stepping device for operating said key code drums, said variable feed control being effective to enable a variable stepping of said second stepping device with a consequent variable stepping of said key code drums.

2,531,529
INSPECTION APPARATUS AND METHOD
James F. Price, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1949, Serial No. 118,836
11 Claims. (Cl. 250—218)



1. A method of inspecting the fluid contents of a light transmitting container, comprising rotating said fluid rapidly while simultaneously examining said fluid by, first, passing a beam of radiant energy through the lower portion, only, of said fluid, then passing radiant energy through both upper and lower portions of said fluid, and detecting abrupt changes in the intensity of said energy.

2,531,530
SYNCHRONOUS MOTOR
Willard J. Reid, Genoa, Ill.
Application December 12, 1947, Serial No. 791,422
9 Claims. (Cl. 172—278)



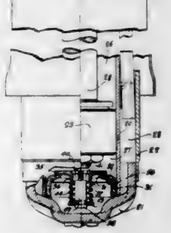
1. A synchronous motor comprising a core carrying an energizing coil, a platelike field element of magnetic material disposed at each end of said core and radially extending therefrom, said platelike field elements forming two distinct groups of peripherally disposed pole pieces, the pole pieces of the first of said groups being formed by a first pair of outer pole pieces carried by and axially inwardly extending from a corresponding pair of arms which project peripherally outwardly from the platelike field element at one end of said core and by a coacting pair of inner pole pieces carried by and peripherally projecting from the platelike field element at the other end of said core, said inner pole pieces being angularly aligned with said first pair of outer pole pieces and forming a radial air gap therewith, the pole pieces of the second group being formed by a second pair of outer pole pieces carried by and axially inwardly extending from a corresponding pair of arms which project peripherally from the platelike field element carrying said first pair of outer pole pieces of said first group and by an inner pole piece carried by and axially inwardly extending from an arm which projects peripherally from the platelike field element carrying said pair of inner pole pieces which coact with the first pair of outer pole pieces of said first group, said inner pole piece being angularly displaced with respect to the second pair of outer pole pieces and forming a radial air gap therewith which is axially displaced with respect to the air gap formed by the pole pieces of the first group, and a rotor carrying two distinct armatures, one for reaction with each group of pole pieces within the air gap formed thereby.

2,531,531
TWISTER STOPPING DEVICE
Ingham S. Roberts, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application October 1, 1948, Serial No. 52,228
12 Claims. (Cl. 57—78)

1. In a strand twister comprising a spindle, means for mounting the spindle comprising a resiliently supported non-rotatable bearing-member for the spindle which converts gyratory movement of the spindle into oscillations of the member, electrical driving means for the spindle, and a circuit for supplying power thereto, the combination therewith of a control device comprising a movable element disposed adjacent to the bearing member to be engaged thereby during excessive oscillations thereof, and means responsive to engagement of the element by the

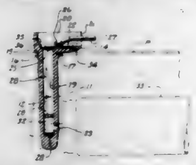
member for interrupting the supply of power to the driving means to initiate stopping thereof.

2,531,532
FLUID FLOW CONTROL DEVICE
Edwin F. Rossman, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 2, 1947, Serial No. 745,426
6 Claims. (Cl. 277—61)



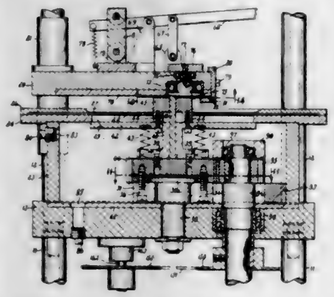
1. A valve mechanism comprising in combination, an apertured valve-cage; a poppet valve on the valve-cage, covering the aperture therein and having fluid flow passages therethrough; a spring loaded disc-valve slidably supported upon the poppet valve and yieldably urged into engagement with said poppet valve to close the fluid passages thereof, said disc-valve having a comparatively rigid body portion from which resilient fingers extend, said fingers engaging the valve-cage and yieldably urging the poppet valve upon the valve-cage, the portions of the fingers adjacent the body portion of the disc valve being comparatively stiff and engageable with the valve-cage to limit the movement of the poppet valve away from said valve cage, the disc-valve cooperating with the valve-cage to hold the poppet valve concentric with the aperture in the valve-cage, and a spring supported upon the poppet valve and engaging the disc-valve, said spring yieldably maintaining the disc-valve against the poppet valve and its fingers against the valve-cage.

2,531,533
ONE-PIECE RESILIENT SOCKET FOR FLUORESCENT LAMPS
Gilbert Shaw, Middlebury, Vt.
Application August 28, 1947, Serial No. 771,011
4 Claims. (Cl. 173—328)



1. A lamp holder and socket of the character described adapted to receive at least one terminal pin extending from one end of a fluorescent tube making electrical contact therewith and supporting the end of said tube upon an apertured plate, comprising, in combination, an elongated hollow body portion adapted to be received through an aperture in said plate, an enlarged base portion integrally connected to one end of said body portion having a recess communicating with the hollow interior of said body portion, said body and base portions being made from a pliant plastic material, an enlarged shouldered portion about said body portion adjacent said base portion channeled to receive the edges of said plate defining said aperture whereby said holder is held in said aperture, a contact member having a longitudinally extending portion positioned in the hollow interior of said body portion and enlarged plate portions seated in the recess of said base portion, said body portion having an aperture adjacent one end thereof to receive the terminal pin of the fluorescent tube, said contact member longitudinally extending portion having an end positioned adjacent said last mentioned aperture, and shoulder means integral with said base portion extending into said recess about a portion only of the perimeter of said recess leaving a substantial part of said perimeter unobstructed by said means, said shoulder means being adapted to engage over and hold said enlarged plate portion of said contact member seated in said recess.

2,531,534
COIL WINDING MACHINE
Wayne Harman Sheley, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 21, 1949, Serial No. 71,972
7 Claims. (Cl. 153—64.5)

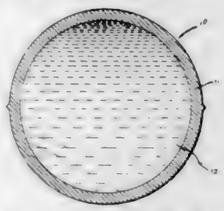


1. A machine for winding an oblong coil of flat wire comprising an oblong form having parallel side surfaces and cylindrical edge portions, mechanism for causing the form to move lengthwise or in a direction parallel to its side surfaces, then to rotate 180° about the axis of one of its opposite direction and then to rotate 180° about edge portions, then to move lengthwise in the the axis of the other of its edge portions, this cycle of movement being repeated until the required number of coil turns have been wound, members for confining the wire flatwise, one being relatively fixed and the other relatively movable, spring means urging the movable member toward the fixed member, means for limiting the initial spacing of the members to a distance substantially equal to the thickness of the wire and for causing the wire to be maintained against the cylindrical portions of the form during rotation thereof whereby the wire is bent edgewise, the movable member moving away from the fixed member as additional turns of wire are wound and means for advancing the relatively fixed member into position adjacent the form for the coil winding operation and for retracting it after the coil is wound to permit removal of the coil from the form.

2,531,535
MANUFACTURE OF ALTERNATING ELECTRIC CURRENT RECTIFIERS
Edward Alfred Sheppard and Bertram Walter Glover, London, England, assignors to Westinghouse Brake and Signal Company Limited, London, England
No Drawing. Application November 6, 1948, Serial No. 58,810. In Great Britain December 2, 1947
6 Claims. (Cl. 175—366)

1. A process for the manufacture of alternating current rectifiers of the copper oxide type comprising the step of heating copper blanks prior to oxidation to approximately the normal oxidation temperature in a steam laden atmosphere.

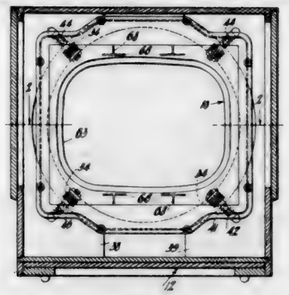
2,531,536
FLAVOR BUD
David F. Silver, Peekskill, N. Y.
Application August 4, 1948, Serial No. 42,379
4 Claims. (Cl. 99—140)



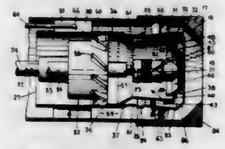
1. A flavor bud consisting of an outer encapsulating shell made from a thermoplastic material prepared from a mixture comprising anhydrous dextrose, sodium tartrate, and glucose, with water, in combination with a liquid center comprising a flavoring substance carried by liquid glucose of about Bé. 43°.

2,531,537
MASK FOR CATHODE-RAY TUBES
John O. Simpkiss, Jr., Palmyra, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 1, 1949, Serial No. 84,793
2 Claims. (Cl. 250—141)

1. A mask for the face of a cathode ray tube, said mask having a generally plane portion having screw receiving apertures to provide for securing the mask to a panel, a groove in said plane portion joining said apertures, a conductive substance in said groove, an offset rim defining a viewing aperture, said rim conforming substantially to the face of a cathode ray tube, and a plurality of insulating spacing members projecting from said mask to bear against the face of a cathode ray tube.



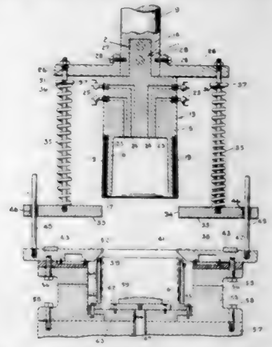
2,531,538
AIR CONTROL UNIT FOR OIL BURNERS
Cecil W. Smith, Waterman, Ill.
Application May 6, 1948, Serial No. 25,403
5 Claims. (Cl. 158—76)



1. In an oil burner, an air supply tube having a contracted outlet at its front end, a fuel nozzle within said air supply tube at the forward end thereof, a first tubular member movably supported in a spaced relation within said air supply tube for adjustable movement longitudinally of said air supply tube, a second tubular member arranged in a spaced relation within said first tubular member for movement therewith, means for imparting a spiral motion to the air flowing through said second tubular member, other means for imparting a spiral motion to the air flowing in the space between said air supply tube and said first tubular member, means for admitting a portion of the air from said last mentioned space into the space between said first and second tubular members at all adjusted positions of said first and second tubular members, and means for moving said first and second tubular members to an adjusted position, with the forward ends of said two tubular members and the outlet of said air supply tube being relatively constructed and arranged such that the first tubular member is movable into a seated engagement with the air supply tube at said outlet to stop the flow of air between said first tubular member and said air supply tube.

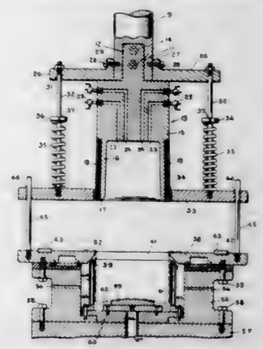
2,531,539
APPARATUS FOR FORMING HOLLOW THERMOPLASTIC CONTAINERS BY DRAWING
Harry E. Smith, Little Silver, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
Application June 19, 1945, Serial No. 600,347
10 Claims. (Cl. 18—19)

10. Apparatus for shaping thermoplastic material to form a cylindrical body having a closed end, comprising a female die including an apertured die plate, a hold-down plate cooperating with said die plate to maintain a thermoplastic sheet material therebetween, the under surface of said hold-down plate and the upper surface of said die plate having minute grooves therein and a finish of chromium thereon, a spacer ring on said die plate for preventing contact of said hold-down plate with said die plate, a hollow force



having a layer of smooth rubber tapering upwardly on the outer surface thereof, for cooperating with said female die for shaping said thermoplastic sheet material, an end former within and spaced from the walls of said female die and means to admit a fluid for cooperating with said force and said end former for contouring the closed end of said cylindrical body, and means for cooling the formed cylindrical body.

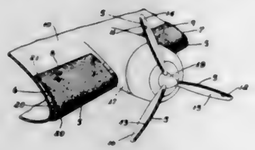
2,531,540
PROCESS FOR SHAPING PLASTIC SHEET MATERIAL
Harry E. Smith, Little Silver, N. J., assignor to Celanese Corporation of America, a corporation of Delaware
Original application June 19, 1945, Serial No. 600,347. Divided and this application March 21, 1947, Serial No. 736,325
2 Claims. (Cl. 18—56)



2. In a process for shaping thermoplastic sheet material into a deep-drawn cylindrical body having a closed end, the steps of differentially heating the thermoplastic sheet material prior to the shaping operation, drawing said differentially heated thermoplastic sheet material through an aperture by applying a drawing force to said thermoplastic sheet material only over an an-

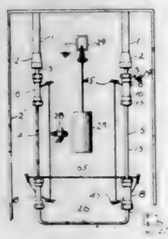
nular area to form the walls of said body, and, after the cylindrical body is formed, shaping the closed end of said body by applying fluid pressure thereto.

2,531,541
SUNLIGHT PROTECTION FOR DISTORTABLE RUBBER SURFACES
Alvin W. Spicer, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 7, 1947, Serial No. 767,009
9 Claims. (Cl. 244—134)



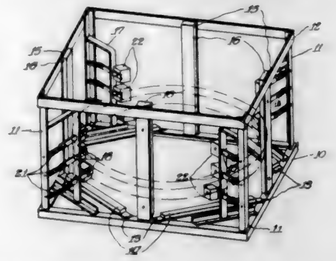
1. An article of the class described adapted to be extensively distorted in the use thereof comprising a surface of distortable material and a light-reflective temporary protective layer thereon in adhered relation thereto but removable therefrom while leaving said surface intact by peeling of the layer from said surface, said layer being extensible to accommodate distortion of said surface and constituting a deposit on said surface directly from a liquid dispersion of a water-insoluble vinyl resin composition containing discrete particles of a material presenting light-reflective faces, said layer having a substantial quantity of said particles in light-reflecting disposition and said layer being characterized by its high degree of resistance to the action of sunlight and weather and its stretchability, toughness and ability to remain intact in the peeling operation.

2,531,542
SPRAY COATING ELECTRODE STRUCTURE
Robert H. Stone, Indianapolis, Ind., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana
Application December 3, 1945, Serial No. 632,473
9 Claims. (Cl. 91—18)



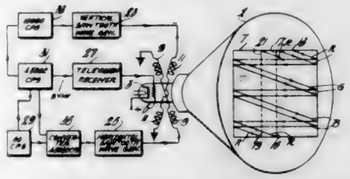
1. In electrostatic coating apparatus, a plurality of socket members having tapered end bores terminating in shoulders, a plurality of bars having their ends received in said bores abutting said shoulders, sleeves surrounding the ends of said rods and having internal steps, nuts threaded on the ends of said socket members engaging said sleeves to force said sleeves into said bores and cause said steps to bite into said bars, and a plurality of ionizing wires extending between said bars.

2,531,543
CONTAINER FOR GEARS OR THE LIKE
Harry Donald Sutphen, Chicago, Ill., assignor to Russell W. Borrowdale, Chicago, Ill.
Application January 24, 1945, Serial No. 574,328
3 Claims. (Cl. 214—10.5)



1. A gear container of the class described comprising a rectangular frame; oblique floor bars extending across the bottom of said frame at the four corners thereof; members on said floor bars adapted to contact directly with an article supported thereby; vertical supporting brackets connected to the four corners of said frame; spacer members slidably mounted in said brackets, each carrying intervening contact members and adapted to be moved to a position between the superimposed articles; spring means normally biased to retract said spacer members from such interposed positions; and means for automatically locking said spacer members in their extended operative positions.

2,531,544
TELEVISION IN NATURAL COLOR
Karl R. Wendt, Hightstown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 7, 1946, Serial No. 708,210
16 Claims. (Cl. 178—5.4)

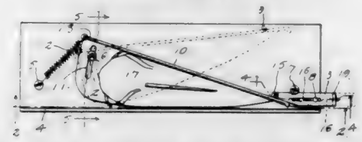


1. In a television system of the type employing a cathode ray tube having a target area whereupon an image is developed, a color filter having a plurality of different component color sections, said color filter rotatably positioned so that at least one each of said different color sections are adjacent said target area at any one time, a deflection system arranged in cooperative relationship with said cathode ray tube for causing the developed ray to traverse the target area along a field of substantially parallel lines, means to cause said deflection system to produce at the completion of a predetermined number of lines of traversal additional fields of substantially parallel lines interlaced with respect to the first fields of parallel lines until substantially the total target area has been scanned, and means for displacing the color filter across said target area in the same direction and at a rate equal to the displacement on said target area of each of said fields with respect to the next previous field.

2,531,545
PIPE ROLLER
Mozel A. Adams, Evangeline, La., assignor to Tom Crain and Gus P. Modlish, Jefferson Davis Parish, La.
Application April 15, 1947, Serial No. 741,605
6 Claims. (Cl. 214—1)

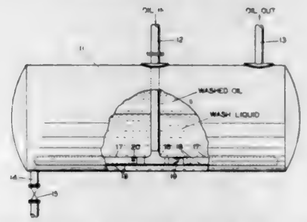
4. In a pipe roller, the combination of a base having side walls provided with inclined portions at either end, end walls between the side walls, a roller journaled for rotation between said end walls, said side walls being formed with upwardly-directed channels in the region of one of said inclined portions, and a spacing back rest adapted to be seated in said channel.

2,531,546
CATFISH SKINNING AND CLEANING CLAMP
Benhart J. Anderson, Santa Ana, Calif.
Application July 18, 1947, Serial No. 761,753
5 Claims. (Cl. 17—8)



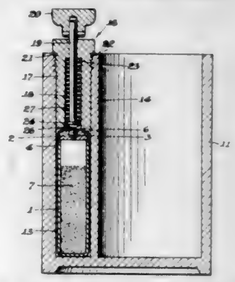
1. A catfish dressing machine which comprises in combination a base containing a clamping member, a fish support moveably attached to said base and containing a second clamping member, means for detachably holding the support in clamping relation with the base, and spring means operating to compress the clamping members together when the detachable holding means is operative.

2,531,547
APPARATUS FOR WASHING OILS WITH AN IMMISCIBLE WASH LIQUID
Charles E. Ayres, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 9, 1946, Serial No. 695,797
3 Claims. (Cl. 210—47)



1. Apparatus for washing oils with an immiscible wash liquid comprising, in combination, a container for holding a wash liquid, an oil inlet pipe extending into said container, a perforated oil distribution spider positioned at the bottom portion of said container, means including a conduit having a tapered portion mounted within said spider for passing oil from said inlet pipe through the perforated portion of said spider, said spider having an opening adjacent the reduced portion of said conduit whereby a flow of oil through said conduit causes wash liquid to enter the spider through said opening, the wash liquid in said spider preventing precipitation of insoluble matter at the perforations in said spider.

2,531,548
HEATING DEVICE
Owen G. Bennett, Baltimore, Md., assignor to Catalyst Research Corporation, Pittsburgh, Pa., a corporation of Maryland
Application August 4, 1947, Serial No. 766,020
1 Claim. (Cl. 126—263)

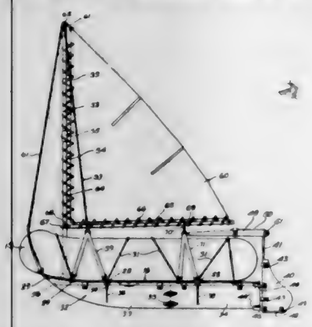


Apparatus for heating milk, water and other materials by replaceable hermetically-sealed cartridges of ignitable material, comprising a casing provided with a heat-conducting wall forming a vertical open-ended chamber for receiving materials to be heated and provided with a vertical cartridge-receiving compartment in heat-conducting relationship with said chamber wall, the upper end of said compartment being open for receiving a cartridge of ignitable material, and cartridge firing mechanism removably positioned in and closing said upper end, said mechanism comprising a barrel provided with a central bore having a a shoulder at its upper end, a firing plunger movably mounted in said bore and having its upper end extending outwardly through said block and its lower end enlarged to approximately the diameter of the bore, a firing pin carried centrally at the lower tip of said plunger, and a spring disposed between said shoulder spring yieldably urging said pin toward cartridge and said enlarged lower end of the plunger, said firing position.

2,531,549
SAILING AND STEERING RIG FOR ATTACHMENT TO FLAT BOTTOM RUBBER BOATS OR RAFTS
John C. Boyd, Riverside, Calif.
Application November 21, 1947, Serial No. 787,328
2 Claims. (Cl. 9—2)

1. A base to be mounted upon a flat bottom boat or the like, comprising flat hinged base sections, apertured cleats secured to the base sections near their marginal edges, a vertically narrow sub-keel section secured to each base section, the sub-keel sections being assembled to form a sub-keel permanently secured to the base, a keel comprising keel sections, opposed flat plates forming sockets secured to the upper edges of the keel sections and projecting above the same for receiving the sub-keel therein, diagonal guys secured to the keel sections near their lower edges and having their opposite ends secured to certain

of the cleats, a rudder pivotally mounted upon the keel, and flexible elements secured to certain



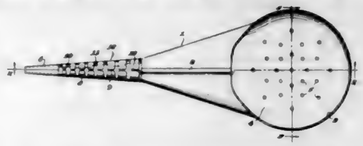
of the cleats and engaging about and connected with the sides of the boat.

2,531,550
GUN CASE
George T. Bradley, Miami, and Emanuel E. Brown, Kendall, Fla.
Application March 28, 1947, Serial No. 737,814
1 Claim. (Cl. 206—16)

An article carrying case comprising an intermediate member of rectangular shape having a top wall, a bottom wall, two end walls and two side walls provided with article receiving recesses, said intermediate member having its top and end walls extended at the opposite edges thereof to provide outwardly extending flanges, two hollow covers each having a side wall, a bottom wall, a top wall and two end walls with the bottom wall having a width greater than one half the width of the bottom wall of said intermediate member and the top and end walls of each cover having a width less than the width of the cover bottom wall by one half the width of the bottom wall of said intermediate member, the top and end walls of each cover being receivable within the top and end wall flanges at the corresponding side of said intermediate member, a single hinge extending longitudinally of the bottom wall of said intermediate member along the mid-length location of the latter and secured to the bottom wall of said intermediate member and to the bottom walls of both of said covers so that said covers are disposed at respectively opposite sides of said intermediate member to enclose the side walls of the latter, and a carrying handle secured to the top wall of said intermediate member.

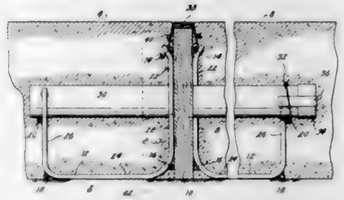
2,531,551
MINNOW HOLDER
Rudolph W. Brecht and Elmer H. Meyer, Brainerd, Minn.
Application March 18, 1949, Serial No. 82,244
4 Claims. (Cl. 43—4)

1. A cone-shaped holder and conveyor for live bait having a lateral opening forming a dipping-scoop at its base end and terminating in a tapered nozzle at its apex end, and a trap intermediate its dipping-scoop and nozzle, said trap having a plurality of transversely arranged tongues with the free ends of the tongues form-



ing a plurality of longitudinally extending slots to permit insertion of a fishing hook.

2,531,552
TRANSLOAD DEVICE
Alan E. Brickman, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 12, 1946, Serial No. 715,714
2 Claims. (Cl. 94—8)

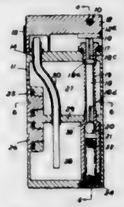


1. In a transload device for transferring loads between adjacent slabs having a filler therebetween, the combination including a pair of supporting units, one on each side of the filler, each of said units having a plurality of aligned longitudinally spaced substantially U-shaped members extending transversely of the filler, the inboard leg of the U-shaped members of each unit being connected by top and bottom longitudinal members, the longitudinal members bearing against the filler to hold it in place, said inboard legs being bent away from said filler at the longitudinal members, said filler having a plurality of holes therein spaced apart longitudinally thereof, a dowel member extending through each of said holes, alternate dowel members being securely fastened to the outboard legs of the U-shaped members of one of said units, the remaining dowel members being securely fastened to the outboard legs of the U-shaped members of the second of said units, the said inboard legs extending a substantial distance above said dowel members, the top longitudinal member being a substantial distance above said dowel members, and a longitudinal member connecting said outboard legs.

2,531,553
UPSETTING-DIE LUBRICANT FOR APPLICATION TO BOLT, STOCK OR THE LIKE
Charles G. Canney, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
No Drawing. Application May 29, 1946, Serial No. 673,175
2 Claims. (Cl. 252—18)

1. A wire drawing lubricant comprising from 70 to 90% hydrated lime and from 10 to 30% of a grease composed of substantially eighty-five per cent mineral oil and fifteen per cent soap, said oil having originally a gravity of approximately 24° Bé., a flash point of approximately 340° F., a fire point of approximately 395° F., and a Saybolt viscosity of 150 seconds at 100° F., the said grease having a penetration value of from approximately 265 to approximately 290, a melting point of approximately 195° F., and a moisture content of from approximately 1 to 1.5 per cent.

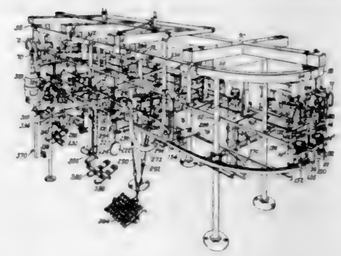
2,531,554
PYROPHORIC LIGHTER
Henry Chen, Kowloon, Hong Kong
Application July 11, 1949, Serial No. 104,053
In Great Britain July 30, 1948
2 Claims. (Cl. 67—7.1)



1. A lighter for cigarettes and the like including a hollow body; a partition subdividing the interior of the body into two chambers, one of which constitutes a reservoir for liquid fuel, and the other of which is packed with an absorbent substance, said partition having an opening therein; a spark-producing device mounted on the exterior of the body and comprising a spring-loaded pyrophoric element and a rotatable friction wheel engaging therewith; a wick having an exposed end adjacent said spark-producing device with the other end of said wick received in the absorbent-packed chamber; an atmospheric valve communicating with said reservoir chamber; a valve controlling said opening in said partition; a hinged cover mounted on said body and protecting said spark-producing means when closed; a common valve operating member having an end portion extending outside the body and engageable by the cover to move both of said valves to open position when said cover is in an intermediate position between its closed and fully open positions while allowing both valves to close when said cover is in either of the last named positions; said atmospheric valve including a poppet-type closure member integral with the valve operating member, and the valve controlling the opening in the partition separating the chambers including a closure member constituted by a loose ball engageable by said valve operating member; independent springs for closing the poppet-type and ball closure members; and two combined seating and guiding members mounted, respectively, in an external wall of the body and in the opening in the partition separating said two chambers and providing seatings for the poppet-type closure member and ball, respectively, said valve operating member being in the form of a stem slidably supported in both of the combined seating and guide members.

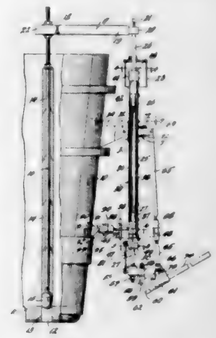
2,531,555
ARTICLE-FORMING SYSTEM
Roy W. Cummings, Beverly, and George F. C. Burke, Fairhaven, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 3, 1946, Serial No. 667,218
51 Claims. (Cl. 93—1)

1. The method of forming sheet-material which consists in positioning a pair of molds to furnish between them passages for the reception of a blank of the material, partially folding the blank and introducing it into the passages, and



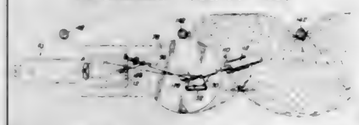
pressing the molds relatively toward each other to form the blank.

2,531,556
STOPPER RIG FOR LADLES
Harry Alford Davis, New Brighton, Pa., and George Washington Ruhl, East Liverpool, Ohio, assignors to Treadwell Construction Company, Midland, Pa., a corporation of Pennsylvania
Application February 13, 1948, Serial No. 8,248
3 Claims. (Cl. 22—85)



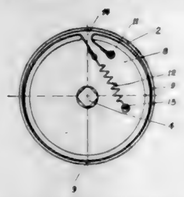
1. In a stopper rig for a ladle, said rig having a stopper, a stopper rod extending upwardly beyond the mouth of the ladle, and means for controlling said stopper rod comprising an elongated guide housing for mounting on the ladle exteriorly thereof, polygonal slide bearing portions in said housing at the respective upper and lower ends of the housing, said housing and bearing portions being formed of sections separable on a vertical plane and removably secured together; the combination therewith of a slide rod extending through said housing and having at its upper end a connection with said stopper rod and at its lower end manually operable means for raising and lowering said slide rod and stopper rod, said slide rod being constituted by a hollow, tubular intermediate portion of major length and solid end portions of minor length, said solid end portions being of similar cross-section to said slide bearing portions and dimensioned to afford a sliding fit therein, said solid end portions each extending into an end of said tubular intermediate portion and welded therein, all whereby the weight of said stopper rig may be reduced without sacrificing strength and slide rod bearing efficiency.

2,531,557
ROTARY POWER CULTIVATOR
Grant Hilton Dayton, Kingsburg, Calif.
Application September 19, 1947, Serial No. 775,110
10 Claims. (Cl. 97—43)



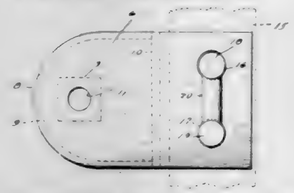
6. In a farm implement including a housing, a vertical shaft journaled in said housing, a rotary cultivator head on said shaft and a wheel mounting swiveled to said housing and supporting a wheel; a guard frame about the rotary cultivator head for contacting an obstacle to effect a swivelling of the wheel and a lateral displacement of the cultivator for working the ground close to and about an obstacle.

2,531,558
GRAVITY-OPERATED FRICTION MEANS
André Victor Leon Clement Debrie, Paris, France
Application September 19, 1945, Serial No. 617,396
In France July 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 12, 1963
1 Claim. (Cl. 64—30)



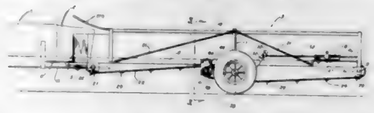
In a gravity operating friction means working under lubrication chiefly for kinematographic apparatuses, two parts of corresponding forms in friction driving relation and a packing of spongy material saturated with a lubricant and covering the surface of one of said parts, one end of said packing being fixed to a point inside of said part and the other end of said packing being connected by means of elastic means to another point inside of said part, said packing constituting the friction surface of said part cooperating with the friction surface of said other part.

2,531,559
HITCH
Milton H. Deviley, Oneida, Wis.
Application November 14, 1947, Serial No. 785,999
2 Claims. (Cl. 280—33.15)



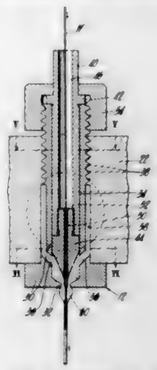
1. The combination with an implement or vehicle pole provided with a pair of spaced projecting straps having aligned openings to receive a drawpin, of a hitch for connecting the pole with a tractor provided with a drawbar having a pair of openings therein, said hitch comprising a unitary device formed with a rounded forward portion for insertion between said straps and provided with an opening to receive the drawpin, a bifurcated portion for receiving the drawbar and formed with a pair of openings in transverse alignment and spaced similarly to the openings of the drawbar for registration therewith, and a U-shaped securing member adapted for insertion into the aligned openings of said rear portion and drawbar for removably securing said parts together.

2,531,560
BUNCHER FOR BALED HAY
Otto J. De Wall, Titonka, Iowa
Application July 12, 1947, Serial No. 760,545
5 Claims. (Cl. 214—83.36)



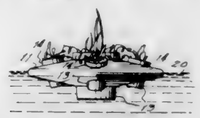
1. A buncher vehicle unit for baled hay attachable to a hay baler mechanism to collect bales of hay from the hay baler until a group of bales is collected on the buncher vehicle at which time the group of bales is discharged from the buncher vehicle to the ground comprising an endless belt running from one end of the buncher vehicle to the other end to form a platform to receive the bales discharged from the hay baler, said platform connected through a clutch means to an axle between wheels of the vehicle, said platform being movable when the clutch is disengaged through a slip coupling that allows movement of the platform by force of each bale issuing from the hay baler moving the bales and platform until a group of bales is collected on the buncher vehicle, a trigger extending into the pathway of the bales and contacted by the first and subsequent bales of the group to move the trigger and a spring attached to the trigger to pull the trigger into the pathway of the bales again and to disengage the clutch from the axle when the last bale of the group passes the trigger.

2,531,561
APPARATUS FOR CONTINUOUSLY COATING WIRE
Flint C. Elder and William H. Johns, Cleveland Heights, Ohio, assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application February 18, 1948, Serial No. 9,038
5 Claims. (Cl. 91—30)



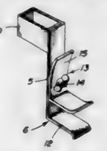
1. Apparatus for applying a plastic coating to rapidly moving, tensioned wire comprising an extrusion die adapted to surround the said moving wire, a guide tube in said die for guiding the wire therethrough, said guide being less than 1" in length and extending to the exit end of said die.

2,531,562
FLOATING SUPPORT FOR GROWING PLANTS
Philip H. Eve, Fort Worth, Tex.
Application September 27, 1948, Serial No. 51,357
1 Claim. (Cl. 47—41)



In a floral buoy for supporting containers for growing plants in pools, in combination, a buoyant body adapted to float on the surface of water and formed with a plurality of normally vertical bores extending therethrough to receive said plant containers, and whereby the said containers extend through said bores and project into the water below said buoyant body while being supported thereby.

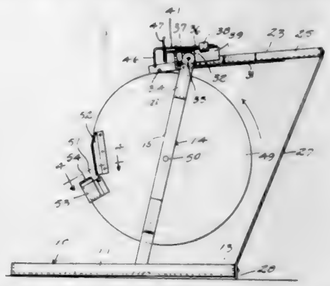
2,531,563
LEVEL HOLDER
Einar F. Feldheim, Grandy, Minn.
Application September 1, 1949, Serial No. 113,641
2 Claims. (Cl. 248—226)



1. A level holder comprising an upright having a clamp at one end adapted to engage the edge of a mortar receiver to sustain said upright in a vertical position, a laterally projecting vertical rectangular sleeve rigid with the other end of said upright and adapted to receive a spirit level to sustain it in a vertical position while resting on the surface upon which the mortar receiver is supported, said clamp including a fixed jaw consisting of a lateral extension on one end of the upright, and an angular member having a first arm secured to and adjustable longitudinally of said upright and a second arm providing a lateral adjustable jaw opposed to the first-named jaw to clamp over the edge of a mortar recevier in the form of a mortar board.

2,531,564
MARBLE ACTUATED ROTARY WHEEL TOY
Willard A. Garbe, Oshkosh, Wis.
Application April 5, 1948, Serial No. 19,029
4 Claims. (Cl. 46—42)

1. A toy comprising a base tray, an upstanding support fixed to said tray, a magazine fixed to the upper end of said support and disposed in a downward and forward inclination, a guide trough extending from the forward end of said magazine, a wheel rotatably carried by said support between said tray and said magazine and formed with a peripheral cutout, a pocket carried by said wheel at one end of said cutout, a delivery trough rockably disposed at the forward end of said guide trough and engaging the periphery of said wheel whereby the latter will rock said delivery trough from a downwardly inclined delivery position within said cutout to a raised receiving position spaced from said cutout, spherical wheel operating members engageable in said magazine and said guide trough, a stop member fixed relative to said guide trough and disposed forwardly of the latter in a position overlying said delivery trough whereby the foremost operating member will be held in said delivery trough when

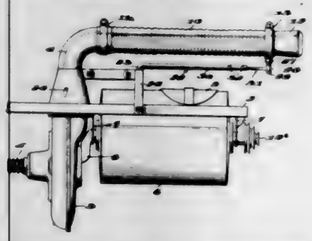


the latter is in a raised inoperative and receiving position, and means actuated by said delivery trough and adapted to engage the second operating member disposed immediately behind the foremost member upon dropping of said delivery trough to delivery position whereby the second operating member will be held against movement into said delivery trough when in delivering position and said foremost operating member will be released by said stop member for gravitating movement into said pocket for rotating said wheel.

2,531,565
BRIDGE GUARD
Carl G. Gottholm, Malden, Mass.
Application June 8, 1948, Serial No. 31,724
7 Claims. (Cl. 246—486)

1. In a bridge guard comprising a supporting wire rope and a spacing hanger made of stiff metallic wire having hanger loops, said hanger being wound around said supporting wire rope, a plurality of pendants each made of a stiff metallic wire, each of said pendants having two elongate loops, the major axes of said two loops being at substantially right angles to each other, one of said two loops being a supporting loop for supporting the pendants in the hanger loops and having a hooked free end portion movable to positions opening and closing said supporting loop, said supporting loop being adapted to be closed by twisting said free end portion around the pendant portion of said supporting loop, said pendant portion of said supporting loop being angularly directed to maintain said supporting loop closed, the other of said two loops being an attachment loop for holding the pendants with said supporting loop in open position for positioning the pendants in the hanger loops, and said attachment loop being directed outward and away from said supporting loop whereby not to interfere with the closing thereof.

2,531,566
INSECTICIDE DISTRIBUTOR
August W. Gustafson, Corpus Christi, Tex.
Application March 26, 1948, Serial No. 17,220
7 Claims. (Cl. 261—30)



1. An insecticide distributor comprising, a stationary support, a flexible tube having its rear end attached to said support, a discharge nozzle mounted at the forward end of said tube, a rigid arm mounted for horizontal swinging movement about an axis aligned with and forward of said support, the free end of said arm being pivotally connected to the tube for relative horizontal rotary movement, said arm guiding said tube for oscillation in a horizontal plane, the ends of said tube being compressed between said support and said arm to bow the medial portion of said tube horizontally and direct the nozzle at an angle to said arm, means for adjusting the length of said arm to vary said angle, means for forcing air through said tube and nozzle the reactionary force thereof causing said nozzle to swing about the pivoting axis of said arm, the resistance of said tube to flexing serving to periodically reverse the bow in said tube and the discharge angle of said nozzle at the end of each swing of said member to cause continuous oscillation thereof, means providing an annular chamber in said nozzle concentric to the air discharge orifice, a conduit for supplying liquid into said chamber, and said annular chamber having a series of discharge perforations to direct jets of fluid into the air stream issuing from said nozzle.

2,531,567
DERIVATIVES OF CYCLOHEXENE AND PROCESS OF PREPARING SAME
Ian Morris Heilbron and Ewart Ray Herbert Jones, London, England, assignors to Glaxo Laboratories Limited, Greenford, Middlesex, England, a British company
No Drawing. Application July 6, 1948, Serial No. 37,314. In Great Britain July 16, 1947
5 Claims. (Cl. 260—586)

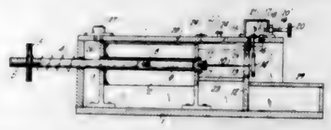
2. As new compounds, compounds of the general formula

$$RC{\equiv}C.\overset{CH_3}{\overset{|}{C}}{=}CH.CH{=}CHCOCH_3$$

where R is a residue selected from the group consisting of 2-methyl-, 6-methyl-, 2:6-dimethyl-, 6:6-dimethyl-, 2:6:6-trimethylcyclohex-1-enyl residues.

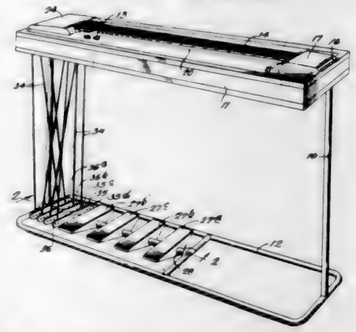
2,531,568
RATTRAP
Thomas Helme, Albany, N. Y.
Application August 28, 1946, Serial No. 693,555
4 Claims. (Cl. 43—78)

1. A rat trap comprising a solenoid, an armature movable by said solenoid when energized and provided with means adapted to hit a rat when a portion of the body of said rat is within the range of movement of said hitting means, and pendulously mounted means positioned in



the range of movement of said hitting means and adapted, when moved by said rat, to close an electrical circuit through said solenoid for energizing the same.

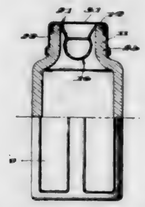
2,531,569
MULTIPLE ADJUSTMENT FOR STRINGED MUSICAL INSTRUMENTS
Herbert Hise, Chicago, and John B. Cousineau, Oak Park, Ill.; said Cousineau assignor to said Hise
Application May 11, 1948, Serial No. 26,344
15 Claims. (Cl. 84—297)



1. In a stringed musical instrument, means for varying the tension of selected strings to regulate the chord of the instrument, said means comprising a plurality of shafts extending transversely across the strings and movable relative to the strings between operative and inoperative positions of adjustment, means constantly urging said shafts toward their inoperative positions of adjustment, string engaging fingers carried by each of said shafts for tensioning selected strings when said shaft is moved to its operative position of adjustment, actuators for operation by the player of the instrument, and an operative connection between each of said actuators and a plurality of shafts for selectively moving said shafts in predetermined order between their respective operative and inoperative positions of adjustment responsive to the operation of said actuator.

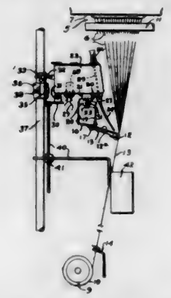
2,531,570
NURSING DEVICE
Mabert G. Hoffman, Thurmont, Md.
Application March 23, 1949, Serial No. 83,080
2 Claims. (Cl. 215—11)

1. In a nursing device, a receptacle, a neck portion on the receptacle having an open mouth and a cylindrical outer periphery, an annular bead carried by the neck portion having an outer diameter less than the periphery of the neck, an elastic nipple including a skirt engaging said annular bead and closing the mouth of the receptacle, said nipple being inverted in the open mouth, a second annular bead on the periphery of the neck portion of a greater diameter than the cylindrical periphery, an inverted cup-shaped hood covering the mouth of the receptacle and engaging the skirt over the end of the neck portion, a skirt on the inverted cup-shaped hood



lying along the cylindrical periphery and crimped about the second annular bead maintaining the hood in position over the neck portion, parallel score lines in said hood extending from the crimped edge axially along the skirt of the hood and across the inverted bottom thereof, and a pull tab providing an extension of the skirt of the hood between said score lines.

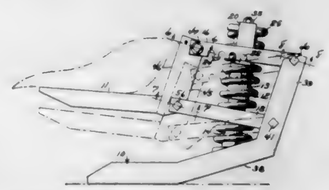
2,531,571
MANUFACTURE OF GLASS YARN
James Franklin Hyde, Corning, N. Y., assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation
Application April 21, 1945, Serial No. 589,688
7 Claims. (Cl. 28—74)



6. In the method of grouping glass fibers into a yarn, the step of treating such fibers with a solution of a hydrolyzable organomonosilane in an organic solvent therefor, the organic substituents of the silane being alkyl radicals attached to silicon through direct carbon linkage.

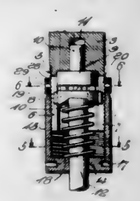
2,531,572
TRACTOR SEAT SUPPORT
Roy E. Knoedler, Macomb, Ill., assignor to Knoedler Manufacturers, Inc., Streator, Ill., a corporation of Illinois
Application November 24, 1947, Serial No. 787,796
5 Claims. (Cl. 155—9)

5. In a seat support for tractors and the like, the combination, which comprises, a base, channel-shaped in cross section, having a horizontal section with rearwardly and upwardly sloping sections extending from the rear end thereof, a seat support having an upwardly inclined channel-shaped back, pairs of bars connecting the seat support to the base with the ends thereof pivotally mounted in the upwardly sloping section of the base and upwardly inclined back of the seat support, one of said pairs of bars having notches in the lower edges thereof, a hydraulic cylinder positioned between the said pairs of bars, a piston in said cylinder having a valved large orifice therein and a restricted opening retarding upward movement thereof, means pivot-



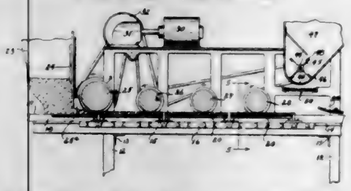
ally mounting the said cylinder on the base, a saddle at the upper end of the cylinder having downwardly extending arms with outwardly extending pins thereon positioned with the pins registering with the notches of one of the pairs of bars, said pins and notches providing adjustment of the cylinder to increase or decrease the leverage to compensate for the load carried by the seat support, and a spring on said cylinder.

2,531,573
ROTARY SAFETY DRIVE
Samuel Konikoff, Pottstown, Pa.
Application March 14, 1946, Serial No. 654,393
2 Claims. (Cl. 64—29)



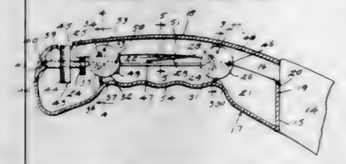
1. A boring head comprising in combination a driving member and a driven member associated therewith, said driving member having an externally screw-threaded cylindrical housing extending therefrom said driven member including a shaft projecting through said cylindrical housing and axially and slidably into a socket in the end of said driving member, said shaft carrying a flange thereon, a coacting flange adjacent the aforesaid flange concentrically disposed around said shaft and slidably and rotatably movable with respect thereto, cam members carried by the adjacent faces of said flanges, a spring for normally urging said last-mentioned flange towards said first-mentioned flange for normally maintaining coacting abutting relation between said cam members, means for confining said last mentioned flange for limited translatory movement with respect to said first mentioned flange and means surrounding said shaft and engaging said externally screw-threaded cylindrical housing and adjustable thereon for variably controlling the effective pressure of said spring for permitting mutual release of said cam members under conditions of excessive rise in resistance at said driven member to the turning torque imparted thereto by said driving member.

2,531,574
MACHINE FOR MAKING CEMENT ROOFING TILE
Gus W. Lang, Miami, Fla.
Application November 9, 1949, Serial No. 126,275
3 Claims. (Cl. 25—43)



1. A machine of the character described, comprising spaced guide rails constituting a trackway, a traveling conveyor element traveling between said rails, transverse pallet carriers actuated by the conveyor element and traveling between said guide rails, means for supporting pallets each having a notched out corner, upon said carriers, each of said carriers having a filler mounted thereon positioned to enter the notched out corner of the pallet, said filler being of loop formation to permit the passage of mix material downwardly therethrough.

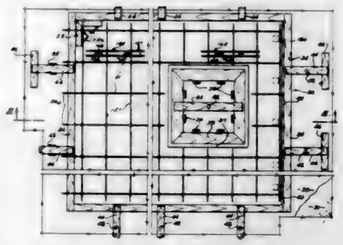
2,531,575
WEIGHING SCOOP
Melvin S. Martin, New Holland, Pa.
Application July 11, 1947, Serial No. 760,341
7 Claims. (Cl. 265—66)



1. In a weighing attachment for scoops, a scoop body having an open end and a closed end, a handle disposed directly above and extending longitudinally of the scoop body from the closed end toward the open end, said handle including a shank fixed to the closed end of the scoop body and having a bar forming a rigid extension thereof, a hollow handle member slidably mounted on said bar and having one end normally abutting against the outer end of said shank, yieldable means normally retaining said end of the handle member against the shank, said handle member being movable on said bar away from the shank in response to the weight of the contents of the scoop body, and scale means contained within said hollow handle member and including a calibrated dial visible therethrough, responsive to the movement of the handle member away from the shank and outwardly of said bar for indicating the weight of the contents of the scoop.

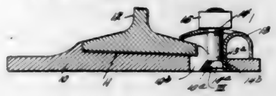
2,531,576
METHOD OF CASTING CONCRETE BUILDING ELEMENTS
James Ed McClellan, Los Angeles, and Jack H. MacDonald, Glendale, Calif., assignors to Buttress & McClellan Inc., Los Angeles, Calif., a corporation of California
Application March 25, 1948, Serial No. 17,078
1 Claim. (Cl. 25—155)

The method of making a concrete building member comprising, casting a concrete base layer, sealing the exposed top surface of said layer by coating with a liquid sealing composition containing a substantially water-insoluble film-forming substance in an evaporable liquid vehicle, which substance, upon removal of the liquid vehicle will deposit on the concrete layer as a uniform, substantially water-impermeable and easily separable sealing film which will prevent formation of a bond between the concrete of the base layer and concrete poured wet upon such a deposited sealing film and set and cured



thereon, casting a wet concrete layer on the exposed coated surface of the base layer after said base layer has at least partially set, thereby producing a superposed concrete layer on the coated and at least partially set base layer, the layers being separated by said film, permitting the superposed concrete layer to set and cure in its position on the sealing film until the thus produced building member has attained sufficient strength to be lifted free of the base layer, and then removing the produced building member from the base layer.

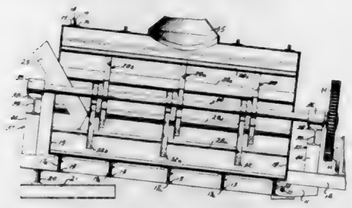
2,531,577
RAIL FASTENER
John A. McGrew, Albany, N. Y.
Application March 5, 1945, Serial No. 580,945
2 Claims. (Cl. 238—349)



1. In a rail fastener, in combination, a tie plate having a rail seat thereon and rail clamping means for securing the rail to the tie plate; said clamping means comprising a clip having a substantially horizontal intermediate portion and legs bearing on the upper surfaces of the rail base and the tie plate respectively, an opening through the intermediate portion of the clip adjacent the edge of the rail seat and a slot extending through the tie plate beneath the opening in the clip, a bolt passing through said opening and slot, and a nut threaded on said bolt and bearing upon the intermediate portion of said clip whereby the clip is caused to bear firmly against said surfaces of the plate and rail to secure the rail to the plate, the slot through the tie plate being oblong with its longer dimension disposed at right angles to the rail, and a frusto-conical recess in the underside of the tie plate, which recess tapers upwardly and has its center offset laterally from the center of said oblong slot, said bolt having a head having its upwardly facing surfaces frusto-conical and conforming smoothly to the downwardly facing surface of said recess; said construction and arrangement being such that the bolt head may be inserted downwardly through the slot with its longer dimension at right angles

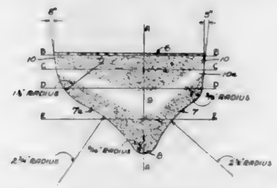
to the rail, shifted laterally to a position concentric with the recess, and then rotated to a position with its longer dimension parallel to the rail, so that the mating of the conical surfaces of the bolt head and the recess prevents reverse shifting movement of the bolt back into the original portion of the slot.

2,531,578
MATERIAL COOLING DEVICE
Robert L. McIlvaine, Glencoe, Ill., assignor, by mesne assignments, to Herbert S. Simpson, Evanston, Ill., as trustee
Application December 7, 1946, Serial No. 714,784
3 Claims. (Cl. 34—182)



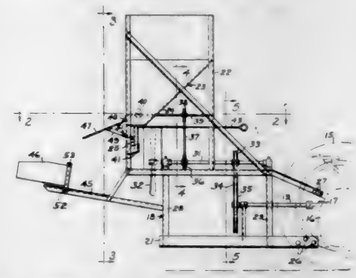
1. A material cooling device comprising an elongated, stationary drum having open ends, an air circulating member supported in said drum substantially at the center thereof for drawing air into said drum from both ends and discharging it adjacent the center of the drum, a shaft centrally and longitudinally disposed in said drum, a plurality of arm members secured to said shaft for rotation therewith, and shelf members secured to the outer ends of said arm members and extending substantially the entire length of the drum, each of said shelves including a substantially L-shaped member with one leg of the L forming a continuation of the associated arm member and extending to the inner wall of the drum and effective to scoop material from the lower portion of the drum and to scrape it from the inner wall thereof, the other leg of the L-shaped shelf being disposed to receive the material from said one leg as the arms are rotated and to discharge the material when the arm reaches a substantially vertical position.

2,531,579
ORTHOPEDIC BAR
Philip Molas and Domenick Pileggi, Chicago, Ill.
Application September 2, 1948, Serial No. 47,490
2 Claims. (Cl. 36—76)



1. An orthopedic bar composed of a pad of resilient material of a general triangular form shaped to constitute a relatively thick, transverse forward edge portion extending entirely across the bar and of a length to extend substantially entirely across the sole of the shoe upon which it is used, an elevated plateau the highest point of which presents a rounded mount located substantially centrally of the fore and aft dimensions of the bar but materially nearer that side of the bar which lies toward the outer side of the foot, in use, than to the other side, a relatively thin portion constituting the apex of the triangle at the rear of the bar, said apex being connected to the opposite ends of said thick forward portion by sides which define compound curves, the rearmost of said curves defining concave portions of the bar, and the rearmost of said curves being of much greater radius than the foremost of said curves, the radius of the rearmost curve defining the edge which lies toward the outer side of the foot, in use, being materially less than the radius of the rearmost curve which lies toward the inner side of the foot, in use, said plateau descending in opposite directions and laterally of the bar, from the mount to, and merging into the forward relatively thick portion, and the rear side of the mount descending and merging into the relatively thin apex portion of the bar.

2,531,580
PHOSPHATE DISTRIBUTING MACHINE
Albert E. Moser, Dayton, Idaho
Application February 10, 1947, Serial No. 727,614
2 Claims. (Cl. 275—2)

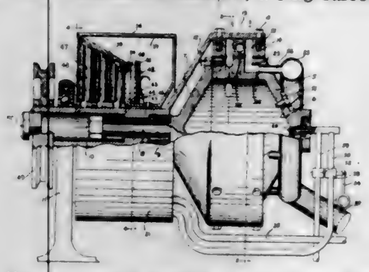


1. A phosphate distributing machine or mechanical duster comprising a bottom frame structure adapted to be connected to the rear of a tractor and having driving mechanism thereon adapted to be connected to a power takeoff, a fan connected to the driving mechanism to be driven by the same and positioned to blow air rearwardly from the structure, a frame super structure mounted upon the bottom structure and extending rearwardly over the air path of the fan, a hopper for containing the material to be distributed disposed on the frame super structure and having a delivery tube spaced from the fan and extending downwardly from the lower end of the hopper and positioned above the path of air delivered from the fan whereby the fan blows a blast of air across and below the end of the delivery tube with material from the tube discharging into the air path, a wind control platform extending from the bottom structure rearwardly beneath the fan and rearwardly of the delivery tube from the hopper on to which such of the material which is not dispersed directly by the fan will drop and eventually be blown from the platform by the fan.

2,531,581
INTERNAL-COMBUSTION TURBINE ENGINE
Richard L. Moyer, Reading, Pa.
Application March 30, 1945, Serial No. 585,585
2 Claims. (Cl. 60—41)

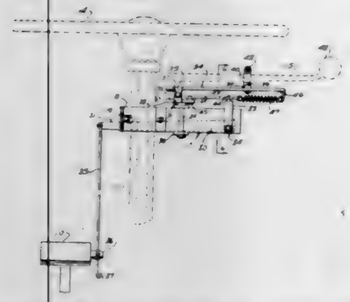
1. An internal combustion turbine engine comprising a hollow body of circular cross sectional

shape having a cylindrical peripheral surface and providing a closed combustion chamber internally thereof, said body having a series of tangentially arranged, spaced apart parts therein extending from said combustion chamber to said peripheral surface, an annular groove in said peripheral surface providing an annular chamber at one side of said series of parts, and exhaust ports leading from said groove to the exterior of said body, a fixed shaft extending from one end of said body, and air and fuel inlet nozzle in the opposite end of said body for injecting a combustible mixture into said combustion chamber, a ring surround-



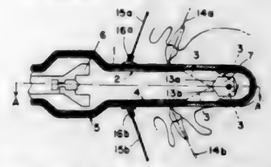
ing the peripheral surface of said body having therein an annularly arranged series of turbine blades separated by spaces, said ring having a groove providing an annular chamber in registry with the annular chamber in said hollow body, and also having therein inclined tapering passages the smaller ends of which communicate with the spaces between said blades respectively and the larger ends of which are in communication with the annular chamber in said ring, a hollow shaft journaled upon said fixed shaft, and a conical member connecting said hollow shaft and said ring for rotation of said ring upon said hollow body.

2,531,582
GEAR SHIFTER CONTROL
Joseph M. Myers, Austin, Tex.
Application December 10, 1948, Serial No. 64,670
3 Claims. (Cl. 192—3.5)



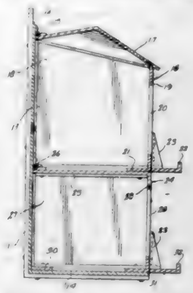
1. Gear shifting mechanism for a motor vehicle having a clutch pedal, a steering wheel column and a gear shift lever supported by said column comprising a bracket secured to said column adjacent said gear shift lever, an arm pivoted near one end to said bracket, means connecting said one end of said arm to said gear shift lever for successively moving said lever in opposite directions upon successive pivotal movements of said arm, and means connecting the opposite end of said arm to said clutch pedal for movement of said arm by depression of said clutch pedal, said means connecting said arm to the gear shift lever comprising a lever pivotally mounted at one end on said bracket, means connecting said lever near its opposite end to the gear shift lever, and means interconnecting said arm and said pivoted lever operative to move said lever in the direction away from its immediate position upon pivotal movement of said arm.

2,531,583
ROENTGEN-RAY APPARATUS
Walter Ott, Bern, Switzerland
Application October 5, 1948, Serial No. 52,917
In Switzerland February 11, 1947
6 Claims. (Cl. 250—149)



1. In Roentgen apparatus including a tube, especially for intracavernous radiographs, a cathode and an anode in said tube, said anode having a plurality of target planes thereon which are inclined in different directions relative to the tube axis and relative to one another, means for changing the form and magnitude of the focus of an electron beam, and a deflection system in said tube whereby the electron beam can be deflected to different ones of said target planes of the anode, in order to produce Roentgen rays emanating selectively in different directions, and wherein for taking intracavernous pictures the tube is of a shape corresponding to the caverna, the anode being stationary and arranged to emit X-rays produced thereby to fall on a film carrier arranged outside the caverna.

2,531,584
SANITARY CHICKEN NEST
John W. Peterson, Alexandria, Minn.
Application June 3, 1949, Serial No. 96,853
2 Claims. (Cl. 119—45)

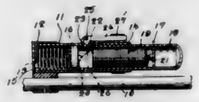


1. A multiple nest structure for poultry comprising a vertically disposed plate, a horizontally disposed base positioned adjacent the lower end of said plate and secured thereto, a housing open at its back and bottom and including a closed top and a front wall depending from said closed top arranged upon said base member with its open back facing and abutting said plate, said housing having its top pivotally connected to said plate for swinging movement about a horizontal axis, and a plurality of vertically disposed partition plates arranged in spaced parallel relation longitudinally of said housing and dependingly secured to said top and front wall to thereby subdivide said housing into a plurality of compartments, there being a plurality of openings extending through the front wall of said housing and each in communication with one of said compartments.

2,531,585
COMBINATION FLASHLIGHT, EYEPIECE, AND HEADGEAR
William H. Pope, Winston-Salem, N. C.
Application August 4, 1947, Serial No. 765,928
2 Claims. (Cl. 88—41)

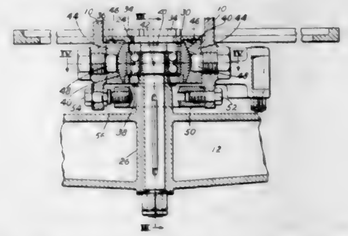
1. In a combination appliance of the class described, a head gear comprising a vertical U-shaped part adapted to arch over and bridge the crown of the head of the wearer, a second U-shaped part, the latter being horizontally disposed and at right angles to and adapted to embrace the rear portion of the wearer's head, the limbs of the respective U-shaped parts being joined together in right angular relationship, one of the limbs of the second-named U-shaped part having a forwardly projecting extension and said extension constituting an adaptor for convenient mounting of complemental accessories, a conventional eye-loupe on the one hand, and a cooperable source of light on the other hand, the lower end of one limb of the first-named U-shaped part projecting downwardly beyond the adjacent limb on the second-named U-shaped part to provide a stabilizing member, the latter being on a side of the head gear opposite to that on which the adaptor is situated, a jeweler's eye-loupe rigidly mounted on one side of the adaptor adjacent to the face of the wearer, and a coordinated source of light mounted on the opposite side of the adaptor, the optical axis of the eye-loupe being substantially parallel to the longitudinal axis of the source of light.

2,531,586
RETRIEVING DEVICE FOR ARTICLES SUBMERGED IN WATER
Walter E. Ramsey, Graham, Tex.
Application November 30, 1948, Serial No. 62,661
2 Claims. (Cl. 9—9)



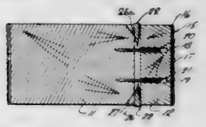
1. In a retrieving device for articles submerged in water, a tubular housing connected to said article and including a closed end, said housing being provided with an open end, a coil spring positioned in said housing and having one end secured to the closed end thereof, a disc slidably arranged in said housing and connected to the other end of said spring, a float member projecting into the open end of said housing and mounted for sliding movement into and out of the latter, a cord having one end secured to said disc and its other end secured to said float member, said housing having a slot therein intermediate its ends, said floating member being provided with a slot for registering with the slot in said housing, a trigger pivotally connected to said housing and having a portion thereof projecting through said registering slots, and a band disintegratable by the action of water for maintaining said trigger in engagement with said slots.

2,531,587
SUPPORT BEARING AND GEAR ASSEMBLY
George K. Richardson, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application July 3, 1944, Serial No. 543,345. Divided and this application December 2, 1946, Serial No. 713,571
5 Claims. (Cl. 89—37)



1. In combination, a first gear element, a second gear element meshing with said first gear element, means mounting the second gear element for rotary movement about a first axis, an actuated member, a hub of said second gear element having cylindrical bearing surfaces having a common axis intersecting said first axis, means on said hub mounting said actuated member for swinging movement about a transverse axis angularly disposed to the first axis, said means on said hub being slidably mounted on said cylindrical bearing surfaces so as to permit relative turning movement between the second gear element and the actuated member about said common axis.

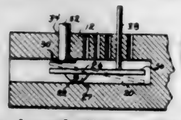
2,531,588
SANDER BLOCK
Oscar Stucker, Morocco, Ind.
Application May 17, 1949, Serial No. 93,785
4 Claims. (Cl. 51—187)



1. An expansible block engageable in a continuous loop of flexible material for holding said material taut about said block comprising a pair of block sections slidably connected together, a pair of tapered spreader elements frictionally engageable between said block sections for spreading the block sections apart upon sliding of said elements inwardly, one of said block sections

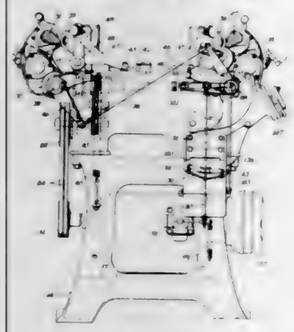
being formed with intermediate, outwardly-opening cut-out portions on the side edges thereof adjacent the abutting section and adjacent the wedge elements for the insertion of a wedge-retrieving tool.

2,531,589
CRIBBAGE BOARD
William F. Swift, Vineyard Haven, Mass.
Application June 17, 1946, Serial No. 677,213
1 Claim. (Cl. 235—90)



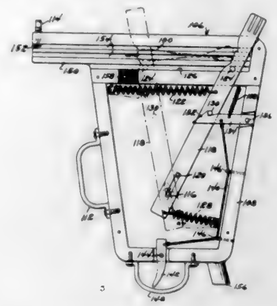
In a cribbage board, the combination which comprises an elongated rectangular game board having spaced pairs of rows of tally pin receiving openings positioned in sections of five in each row in the upper surface and having an elongated centrally positioned opening extended inwardly from the starting end of the board, said elongated opening extended under the openings of the inner rows of the end section, said board also having a pair of round indicating pin openings spaced from the last pin of the inner rows of the end section, round indicating pins with heads on the inner ends frictionally mounted in the said round indicating pin openings, levers pivotally mounted in the said elongated opening at points positioned between the said round indicating pin openings and the last tally pin opening of each of the inner rows, said pivotal mountings spaced from one of the ends of the levers providing long and short ends with the short end of each of said levers extended under the said round indicating pins and the long ends extended under the five tally pin openings in the end section of the board whereby a tally pin extended through one of said five openings therefor actuates the lever on that side of the board to elevate the round indicating pin positioned above the short end thereof.

2,531,590
AUTOMATIC COPYING LATHE FOR SHOE LASTS
Laurence E. Topham, Wenham, and Clyde L. Knott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 16, 1946, Serial No. 654,924
13 Claims. (Cl. 142—15)



1. A copying lathe comprising a master swing frame, rotatable means journaled therein for carrying a master model and a work-block, a master model-wheel, an individually movable pilot swing frame, rotatable means journaled in the latter for carrying a pilot model, a pilot model-wheel, a variable-speed driving unit, transmission means operable by said unit for driving both of said rotatable means at equal speeds, said rotatable means being less than 90° out of angular phase with each other as between the two models, an adjustable regulator connected to said driving unit for varying the driving speed thereof, and movable linkage connecting the regulator and the pilot swing frame whereby swing of the latter is transmitted to the regulator for shifting the same to and fro.

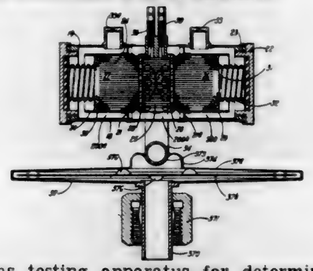
2,531,591
TOY PISTOL
Elijah J. Willis, Morehead City, N. C., assignor of one-half to Alfred B. Cooper, Morehead City, N. C.
Application May 29, 1946, Serial No. 673,003
2 Claims. (Cl. 124—27)



2. A game device of the character described comprising a body, a barrel portion on the upper edge of said body, means on said body for holding said body in projecting position, a projector arm pivoted in said body, a spring secured to said body and said arm for lending impetus thereto and a spring pressed latch engaging said arm to retain it in cocked position, the movement of said latch to disengage said arm permitting said spring to impel said arm forwardly from its cocked position to impel a projectile at an object, guide slots in said barrel, a guide pin in said arm receivable in said slots, said arm being provided with an elongated slot through which the pivot pin for the arm extends so that the projectile engaging portion of the arm is adapted to move in a straight trajectory in its forward movement under impetus of said spring.

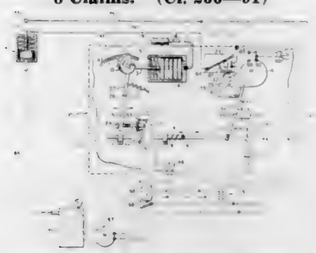
2,531,592
METHOD AND APPARATUS FOR GAS ANALYSIS
William P. Yant, Murrysville, and Harry N. Cotabish, Pittsburgh, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 13, 1945, Serial No. 582,468
13 Claims. (Cl. 23—232)

1. That method of determining a combustible constituent in a gaseous atmosphere by combustion with an oxidizing catalyst which comprises heating the atmosphere to a temperature at which water vapor does not poison the catalyst, passing the heated atmosphere into contact with the mid portion of a thermopile having at least a portion adjacent its hot junctions embedded in a body of oxidizing catalyst adapted to oxidize said constituent, and at least a portion adjacent the cold junction embedded in a body of catalytically inactive material, then distributing the heated atmosphere from said mid portion of the thermopile in amounts of substantially equal volume laterally into and through a substantial cross section of said bodies and over said junctions, and applying the E. M. F. of said thermopile due to oxidation of said constituent to indicate the occurrence of such oxidation.



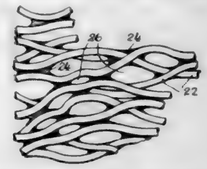
5. Gas testing apparatus for determining a combustible constituent in a gas comprising a conduit for gas to be tested, an electric heater associated with said conduit, a thermostat for controlling the temperature of said heater, a testing cell comprising a closed housing member and a container mounted within and spaced from the walls of said housing member, foraminous partition means dividing said container into a central and two end compartments, the end compartments having outlets for gas passed through from said central compartment, a thermopile disposed in said container with the junctions at one end disposed in one of said two end compartments and the junctions at the other end disposed in the other of said two end compartments, a connection leading from said conduit to said central compartment, an outlet from said housing, and electrical means associated with said thermopile responsive to E. M. F. developed by it.

2,531,593
TEMPERATURE CONTROL SYSTEM FOR HEATING UNITS
Edward J. Zeitlin, Brooklyn, N. Y.
Application May 22, 1946, Serial No. 671,542
8 Claims. (Cl. 236—91)



1. In a heating control system having a heating element to start the operation of a timing control unit, a burner motor and heating boiler, a pressure switch connected to said boiler to be closed by a predetermined steam pressure and opened by a lack of pressure, a timing motor and cam, said timing motor having a predetermined cycle of operation, a timing motor switch to insure the operation of said timing motor for a complete cycle, a relay to control the operation of said burner motor in the boiler, a normally closed relay switch to control the operation of said relay, an outside weather element that is responsive to changes in temperature, an expandable bellows operated by the temperature responsive weather element, a first control arm that is responsive to the movements of said bellows and provides means connected to said relay switch to open or close same depending upon the movement of said bellows, a second control arm responsive to the movements of said timing motor operated cam, means connected to said second control arm to move said relay control switch with relation to the position of said first control arm to open or close said switch.

2,531,594
PACKAGED COFFEE
Leon H. Abrahams, Chicago, Ill., assignor to Koffy-Pak Corp., Chicago, Ill., a corporation of Illinois
Application August 23, 1949, Serial No. 111,803
9 Claims. (Cl. 99—77.1)



1. An article for use in brewing coffee comprising a sealed bag containing ground coffee, said bag comprising a non-woven fabric of viscose fibers bound together by cellulose regenerated from viscose and having pores of lesser size than the meshes of a Tyler 100-mesh standard sieve, some of said pores being of greater size than the meshes of a Tyler 300-mesh standard sieve.

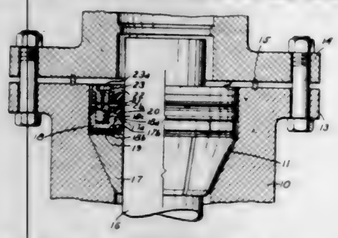
2,531,595
PREPARATION OF ALPHA-ACYLAMINO-ALPHA-SUBSTITUTED-ACETIC ACIDS
Noel F. Albertson, East Greenbush, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 9, 1949, Serial No. 98,163
5 Claims. (Cl. 260—534)

1. The process for preparing an alpha-(lower fatty acyl)amino carboxylic acid which comprises heating a lower alkyl ester of an acid selected from the group consisting of (lower fatty acyl)amino-malonic acids and (lower fatty acyl)amino-cyanoacetic acids with an alkali metal carbonate in an aqueous medium.

2,531,596
MEANS FOR SEALING AND TESTING WELLHEAD CONNECTIONS
Herbert Allen and Madden T. Works, Houston, Tex., assignors to Cameron Iron Works, Inc., Houston, Tex., a corporation of Texas
Application December 4, 1948, Serial No. 63,496
15 Claims. (Cl. 285—22)

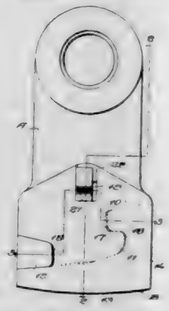
1. In well-head equipment including a casing head having a tapered slip bowl portion, and a pipe to have a sealed suspension therein, a hanging and packoff assembly including upper and lower gland rings adapted to surround a pipe, packing material disposed therebetween, means joining the gland rings for compressing the packing material between the gland rings to provide a seal between the casing head and pipe, and slip suspension means loosely connected

to and depending from the lower gland ring adapted to seat in the casing head slip bowl por-



tion and to be advanced thereby into hanging engagement with the pipe.

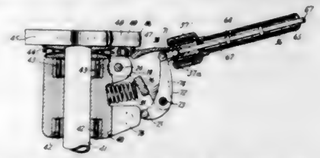
2,531,597
HAMMER AND RENEWABLE TIP FOR HAMMER MILLS
Edmund C. Anderson, Homewood, Ill., assignor to Kensington Steel Company, Chicago, Ill., a corporation of Illinois
Application September 2, 1948, Serial No. 47,501
5 Claims. (Cl. 241—197)



1. A hammer mill hammer comprising a shank, a tip separate from said shank mounted upon the outer end portion of the latter, said tip including a front wall overlying the front face of the outer end portion of said shank, a bottom wall overlying the outer end of said shank, and side walls overlying the side faces of the outer end portion of said shank, the front part of the outer end portion of said shank and the front wall of said tip having tongue and recess wedge formations tightly engageable with each other by rearward movement of the tip relative to the shank to secure the tip firmly upon the shank, the sides of said shank and the side walls of said tip having lug and recess wedge formations also tightly engageable with each other by rearward movement of the tip relative to the shank to assist in securing the tip firmly upon the shank, there being clearance spaces between adjacent ends of said wedge formations to permit said tip to move rearwardly relative to said shank to compensate for wear upon said wedge formations, and means for securing said tip against forward movement relative to said shank.

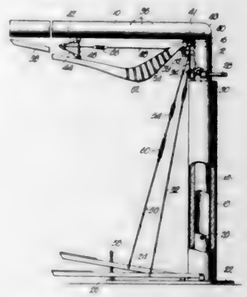
2,531,598
BALANCING MEANS FOR ROTATING WING
Harold T. Avery, Oakland, Calif.
Application February 4, 1946, Serial No. 645,309
12 Claims. (Cl. 170—160.57)

11. In a rotary wing aircraft having a rotatable hub, a blade, and a flapping hinge connecting said blade to said hub; the combination of a balancing weight enclosed within said blade, carried by said blade and adjustable longitudinally thereof, a mechanism jointly operable by said blade and said hub during movement of the blade rela-



tive to said hub upon said flapping hinge, said mechanism comprising a variable-rate cam and a cam follower, and a connection between said mechanism and said weight for transmitting movement imparted to said mechanism to effect radial adjustment of said weight.

2,531,599
PANTS STRETCHER
Charles L. Bader and Cecil C. Stone, Wichita, Kans.
Application December 30, 1946, Serial No. 719,196
3 Claims. (Cl. 223—73)

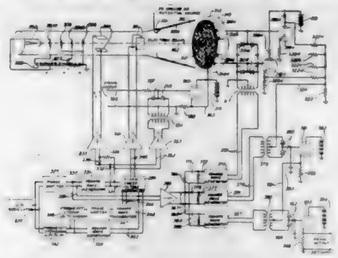


1. In a pants stretcher, a pair of spaced, substantially parallel, horizontal, elongated supports; an elongated arm for each of said supports respectively, each arm being pivotally mounted at one end thereof for swinging movement toward and away from its corresponding support, each support and its arm being adapted to receive one leg of a pair of pants when the arms are near their supports; and means for swinging the arms away from the supports when the pant legs are on the supports and arms to apply transverse tension to the pant legs, each arm being curved outwardly away from its support intermediate its ends to conform to the contour of the seat of said pants when the pant legs are on the supports and arms.

2,531,600
ELECTRON BEAM TUBE FILTER
Harold L. Barney, Madison, Liss C. Peterson, Chatham, Ralph K. Potter, Madison, and Raymond W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 4, 1949, Serial No. 74,616
14 Claims. (Cl. 346—33)

5. A system for simulating network response which comprises in combination a signal source, a source of a beam of electrons, a target interposed in the path of said beam, deflecting means comprising a circuit for causing said beam to periodically assume different scanning directions in

alternate succession for concurrently scanning said target in two series of substantially parallel lines, said series having obliquely related directions in the plane of said target, recording means under control of said beam in one of said scanning directions to produce a record of charge on said target which varies from one to another of said lines in accordance with the amplitude-time variation in said signal, charge-storing means included on said target for storing increments of said record of charge on successive portions of said target, neutralizing means under control of said beam in another of said scanning directions to release increments of charge from certain portions of said target representing dif-



ferent instantaneous signal values during a selected past interval of said signal, means including a plurality of circuits individually connected to said charge-storing means for weighting each of the increments of charge from successive portions of said target in accordance with a different selected value of a weighting function, a common output circuit connected to collect and integrate the increments of charge from said charge-storing means through said weighting circuits to produce a modified output signal, and means comprising a synchronizing circuit connected to said recording means, said neutralizing means, and said output circuit to initiate periodic repetition of a cycle including said recording, neutralizing, weighting, collecting and integrating operations.

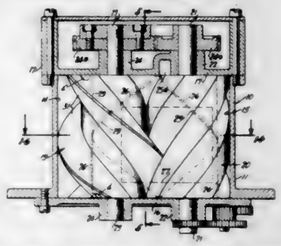
2,531,601
MERCAPTAN SYNTHESIS
Richmond T. Bell and Carlisle M. Thacker, Highland Park, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application March 23, 1945, Serial No. 584,382
4 Claims. (Cl. 260—609)

1. The method of preparing mercaptans from polymeric olefins which are copolymers of different monomers, without material depolymerization of the olefin comprising, reacting the olefins and hydrogen sulfide in the presence of a catalyst consisting of a Friedel-Crafts catalyst and a temperature in the range from about 25° to 80° C.

2,531,602
PRODUCTION OF THIOETHERS AND/OR MERCAPTANS
Richmond T. Bell, Highland Park, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 28, 1946, Serial No. 719,137
6 Claims. (Cl. 260—609)

1. The method of preparing secondary and tertiary mercaptans from olefins containing a terminal double bond and which olefins are admixed with peroxides in amount sufficient to cause abnormal addition of the sulfhydryl group to the olefin comprising reacting said olefins with hydrogen sulfide under anhydrous conditions in the presence of a Friedel-Crafts catalyst.

2,531,603
POSITIVE DISPLACEMENT TYPE FLUID METER
William F. Berck, Hayward, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a corporation of California
Continuation of application Serial No. 616,724, September 17, 1945. This application September 29, 1947, Serial No. 776,756
9 Claims. (Cl. 121—71)

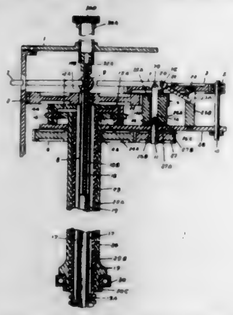


1. A positive displacement liquid meter comprising a casing having a pair of parallel intersecting cylindrical bores, said casing having an inlet chamber formed therein exteriorly of one side of the bores and an outlet chamber exteriorly of the other side of the bores, said casing having an inlet port between the inlet chamber and the bores and an outlet port between the outlet chamber and the bores, a first rotor rotatably mounted in one bore, a second rotor rotatably mounted in the other bore, the first rotor having at least three radially projecting helically extending lobes having surfaces epicycloidal in cross-section transversely of their rotor axis and of an outer diameter sealingly fitting the bore, the second rotor having a diameter sealingly fitting its bore and engaging the periphery of the first rotor at the root of the lobes, a connection between the rotors whereby they will rotate in counterdirections with the peripheral speed of the second rotor being equal to the peripheral speed of the first rotor at the root of the lobes, the second rotor having at least four helically extending sockets having surfaces epitrochoidal in cross-section transversely of their rotor axis and complemental to the lobes to mesh therewith to form a constant liquid seal longitudinally between the rotors and thereby between the inlet and outlet ports, said inlet port extending on opposite sides of the line of intersection between the outer diameters of the rotors and the entire length of the rotors and having oppositely converging helical side edges one conforming to the helix angle of the sockets and the other to the helix angle of the lobes and intersecting at one end of the rotors at the point of intersection of the outer diameters of the rotors, said outlet port being formed similarly to the inlet port but with its helical side edges intersecting at the point of intersection of the outer diameters of the rotors at the opposite end of the rotors.

2,531,604
PORTABLE SELF-FEED DRILL
Carl L. Best, Cleveland, Ohio
Application November 12, 1948, Serial No. 60,522
5 Claims. (Cl. 77—34.7)

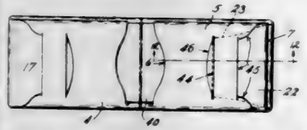
1. A device of the class described comprising, in combination with a motor, a driving shaft, a

driven shaft, the driven shaft being hollow, a gear train cooperating respectively with the driving shaft and the driven shaft, and with an internally threaded drill chuck guiding member, a ratchet fast on the upper end of the aforementioned drill chuck guiding member, means for intermittently rotating the drill chuck internally threaded guiding member, said means being operatively associated with the driven shaft, the ratchet member and the internally threaded drill chuck guiding member, an externally threaded

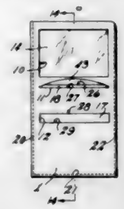


drill chuck carrying member cooperating with the internally screwthreaded member, means associated with the driven shaft for screwing the externally threaded drill chuck carrying member down in the internally threaded drill chuck guiding member, means in the gear train brought into action by cooperating instrumentalities in the hollow driven shaft to impart a different speed ratio to gears in the train to return the externally threaded drill chuck carrying member to its initial position after a drilling operation.

2,531,605
BILLFOLD CONSTRUCTION PERMITTING RELEASABLE COMBINATION THEREWITH OF A MULTIPLE PASS CASE OR THE LIKE
Douglas J. Broughton, Springfield, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application October 25, 1947, Serial No. 782,080
2 Claims. (Cl. 150—38)

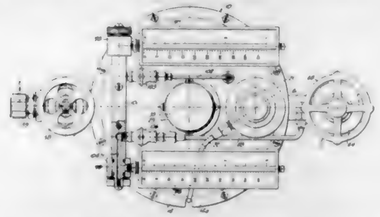


1. A billfold comprising a rear wall and a front wall connected together to form a bill compartment, the front wall including spaced end sections and a bridging member closing the space between the end sections, one of said end sections including a panel member extending from the lower edge of the rear wall and folded upwardly and over the bridging member to form an open ended loop, an extension from the outer end edge of said panel member, said extension being folded inwardly over the inner face of said panel member, the latter being formed with a slit through which the free end portion of said extension projects to provide a pocket between the extension and the panel member, said extension being formed with a slit adjacent its folded connection to the end of said panel member, and an apron member having one end portion secured to the inner face of said panel member between said first mentioned slit and the end of the panel member remote from the end of the billfold, a portion of the other end of the apron member being inserted through said second slit and secured to said extension to form a pocket between said apron and said extension, said pockets being accessible through said first mentioned slit forwardly and rearwardly, respectively, of the projecting portion of said extension.

2,531,606
SIDE AND TOP OPENING POCKET CASE ADAPTED TO RECEIVE A MEMORANDUM PAD
Douglas J. Broughton, Springfield, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application June 3, 1948, Serial No. 30,936
1 Claim. (Cl. 150—39)

In a flexible pocket wallet having front and rear wall members connected together to form a compartment between them, an intermediate wall member secured to the front wall member along the bottom and two side edges, a transverse slit formed in the front wall member below its upper edge, a U-shaped slit formed in the front wall member between the first-named slit and the bottom edge of the front wall member, said U-shaped slit forming a downwardly directed tongue, and a partition element positioned between the front wall member and said intermediate member, said partition element having an extension from its upper edge and being provided with a transverse slit intermediate said extension and its lower edge, said extension extending outwardly through the first-named slit in the outer wall, and said downwardly extending tongue extending inwardly and downwardly through said slit in said partition element, to provide two pockets between the front wall member and said intermediate member, one of said pockets having entrances through the first-named slit rearwardly and forwardly of said extension, and rearwardly of the portion of the partition element exposed in said U-shaped slit and the other of said pockets having an entrance forwardly of the portion of the partition element exposed in said U-shaped slit.

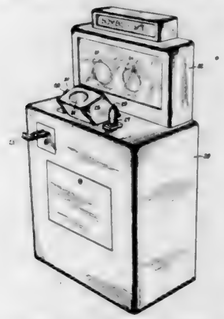
2,531,607
COMPARTMENT TESTER
Austin U. Bryant, Berkeley, Calif., assignor to Grove Regulator Company, Oakland, Calif., a corporation of California
Application April 15, 1947, Serial No. 741,639
4 Claims. (Cl. 73—40)

1. In a compartment tester, a pressure reducing regulator having inlet and outlet passages, said regulator including an operating diaphragm and means forming a chamber on one side of the same adapted to receive controlling gas pressure, piping connected to the outlet of the regulator, a coupling serving to connect the piping to a compartment to be tested, a manually operable shut-off valve in said piping, piping connecting said chamber with said compartment and extend-



ing through the first named piping and said coupling, and means for indicating pressure in said last named piping.

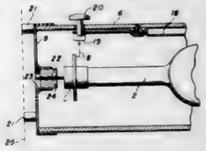
2,531,608
BOMBING GAME
Frank J. Bula, Speedway City, Ind.
Application August 31, 1946, Serial No. 694,329
13 Claims. (Cl. 273—101.2)



1. In a bombing game, a sighting device comprising a housing visually open at opposite ends, a portion of the internal wall of said housing visible through one end of said housing comprising a translucent screen, a light source outside said screen, means interposed between said screen and said light source and defining a plurality of light-permeable areas extending in the direction of a line drawn between said housing ends and separated by opaque areas, cycling means associated with said light source and operable to effect an apparent movement of a light image from said source, falling upon said screen, progressively from that end of said light-permeable areas nearer one end of said housing toward that end of said light-permeable areas nearer the other end of said housing, and manually-manipulable means for initiating the operation of said cycling means.

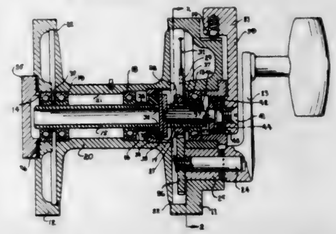
2,531,609
ELECTRICAL APPARATUS FOR MEASURING ELECTROSTATIC VOLTAGES
Douglas Bulgin, Erdington, Birmingham, England, assignor to Dunlop Rubber Company Limited, London, England, a British company
Application February 18, 1946, Serial No. 648,483
In Great Britain February 17, 1945
1 Claim. (Cl. 171—95)

Apparatus for measuring the surface potential of an object, which comprises a metal tube closed at one end and having an earth connection, an electrometer valve within said tube having a filament, an anode, and a grid therebetween and an electrode within said tube near the open end thereof and connected to the grid of said valve, a cap adapted to fit over the open end of said tube, said cap having distance pieces of insulating material spaced apart upon its face and being provided with a probe extending through a bushing of insulating material located in an aperture in said cap into contact with the said electrode, a current-measuring device having one terminal connected to the valve anode and the other to a connection for one terminal of a source of direct current, an earth lead for connection to the other terminal of said source, a variable high-resistance



shunt in parallel with said device, leads for connecting the valve filament to a source of electric energy and for earthing one terminal of said filament, and means for applying a predetermined voltage to the grid and for earthing the grid as required comprising a resistance, a movable contact arm connected to said grid, a switch between said grid and said movable contact arm, an earth lead connected to one end of said resistance, a switch connected to the other end of said resistance, a lead for connecting the last mentioned switch to one terminal of said second source of direct current and a lead for connecting the earthed end of said resistance to the second terminal of said second source of direct current.

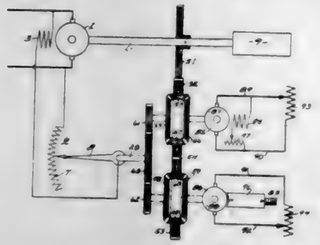
2,531,610
CLUTCH AND BRAKE MECHANISM FOR FISHING REELS
Lester E. Butzman, Sr., Rocky River, Ohio
Application May 27, 1948, Serial No. 29,462
6 Claims. (Cl. 192—14)



1. A brake and clutch mechanism for a reel including a frame having first and second end plates, means for fixedly holding said end plates spaced apart, a sleeve shaft journaled in said first and second end plates for rotation therein, a hollow hub having an inner surface and journaled on said sleeve shaft, a first friction element fixedly carried on the inner surface of said hollow hub, pawl means for permitting only unidirectional rotation of said sleeve shaft, means for rotating said sleeve shaft in said unidirectional rotation, a second friction element nonrotatatively carried by said sleeve shaft and disposed closely adjacent said first friction element, an axial member concentrically disposed relative to said sleeve shaft and having a threaded portion threadedly engaging said first end plate, means for rotating said

axial member to thus axially displace same, and linkage means interengaging said axial member and said second friction element for movement thereof upon axial displacement of said axial member to thus effect frictional engagement of said friction elements.

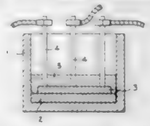
2,531,611
SPEED RESPONSIVE DEVICE
Harry R. Canfield, Cleveland Heights, Ohio, assignor to Lev A. Trofimov, Willoughby, Ohio
Application April 22, 1948, Serial No. 22,577
6 Claims. (Cl. 264—9)



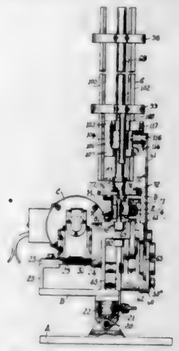
1. A unitary speed-responsive mechanism comprising a rotary input adapted to be driven at varying speed by rotary input power; a rotary output adapted to supply rotary output power; means to cause the rotary output to remain at rest at a predetermined input speed and to rotate in one direction or the other at input speeds above and below the predetermined speed, said means comprising: a first and a second differential gearing each comprising a spider element rotatably supporting a pinion and two differential gears pinion-driven by the spider element; the spider elements driven by the input power; one differential gear of the first gearing connected to a first torque developer the torque of which varies with variations of driven speed, and the other differential gear connected to the output, and applying a first torque thereto tending to rotate it in one direction; one differential gear of the second gearing connected to a second torque developer the torque of which varies at a different rate with variations of driven speed from that of the first torque developer, and the other differential gear connected to the output and applying a second torque thereto tending to rotate it in opposition to the first torque; and means causing the first and second torques to be equal at a predetermined input speed and unequal at other input speeds.

2,531,612
METHOD FOR MELTING GLASS BY ELECTRICITY
Pierre Crochet and Roger Emile Lambert, Paris, France, assignors to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Application March 20, 1945, Serial No. 583,774
In France February 10, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 10, 1964
6 Claims. (Cl. 13—34)

4. The method of making glass by passing an electric current through the glass materials that comprises forming from raw materials of the batch having relatively low resistivity comprising alkaline carbonates and oxides a conducting path, including in said conducting path separated elements of higher conductivity including a metal of a said material of low resistivity in the said conducting path, and energizing said path by an electric current.



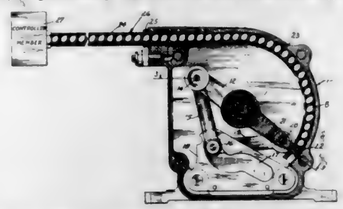
2,531,613
TARGET-THROWING MACHINE
George H. Darrell, Stonington, Conn.
Application May 22, 1946, Serial No. 671,480
10 Claims. (Cl. 124—8)



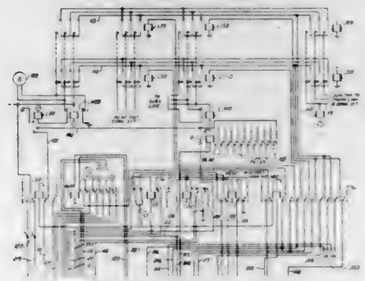
1. A target trap comprising a motor supplying power to operate the trap; timed means driven by the motor; a pivotally mounted arm for throwing a target; a main power spring attached to the arm for moving the arm from a set position to a target releasing position; locking means for restraining the arm in the set position against the force of the spring; means for releasing the locking means so that the spring moves the arm to the target releasing position; spring loading means released by the timed means subsequent to movement of the arm thereby to reduce the remaining force in the main spring; a return spring for moving the arm to a target loading position upon the reduction of the main spring force; and a target magazine including griping means operated by the timed means to deposit a target upon the arm when the arm is in the loading position, the timed means then being effective to move the spring loading means to exert a loading force on the main spring thereby to move the arm from the loading position to the set position.

2,531,614
VARIABLE OUTPUT LINKAGE WITH MULTIPLE CONTROLLED ELEMENTS
Chester C. De Pew, Farmingdale, N. Y., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y., a corporation of Maryland
Application October 12, 1946, Serial No. 703,007
7 Claims. (Cl. 74—471)

6. In a motion transmitting unit, the combination of a rotatably mounted shaft, a driving member connected to rotate said shaft, a second shaft disposed in spaced parallel relationship to said first shaft and secured thereto, said second shaft thereby being disposed to revolve about the center line of said first shaft upon rotation of the latter, a plurality of driven members remotely disposed with respect to said unit, a plurality of cams one corresponding to each of said driven members, a follower for each cam, a plurality of levers one corresponding to each of said cams and pivotally mounted on said first shaft, a plurality of first links connecting corresponding cam followers and levers, a plurality of second links connecting said cam followers to said second shaft, and operative driving connections between each of said levers and corresponding driven members whereby each driven member is actuated by said driving member in a manner characterized by the cam corresponding thereto.



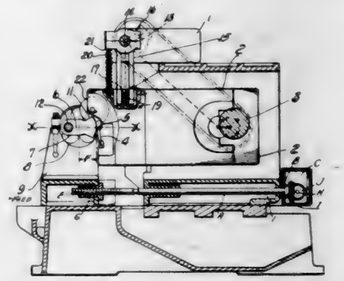
2,531,615
TELEPHONE SYSTEM
Edson L. Erwin, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1948, Serial No. 57,389
21 Claims. (Cl. 179—18)



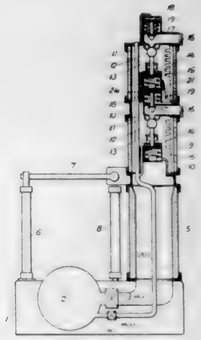
1. In a telephone system, subscribers' lines, line switches serving said lines, a control circuit for operating said switches to extend connections to and from said lines, a secondary connector, means under the control of a calling subscriber's line for operating said secondary connector to connect said line switches with said control circuit, a primary connector, means in said control circuit for operating said primary connector to connect said control circuit with said line switches, and means to operate said primary connector in response to the operation of said secondary connector.

2,531,616
MULTIPLE CRANKPIN TURNING LATHE
Frederick S. Floeter, Saginaw, Mich., assignor to Wickes Bros., Saginaw, Mich.
Application April 30, 1945, Serial No. 591,216
5 Claims. (Cl. 82—9)

1. In an orbital crankshaft lathe, means for supporting a work piece in said lathe, an orbitally moving tool carrier, cutting tools mounted thereon, means for supporting the forward end of the tool carrier independently of the work piece, and resilient means interposed between the supporting means and the tool carrier to permit limited, restrained, vertical movement of the tool carrier with relation to the supporting means for absorbing jars and tool thrust stresses, and means for imparting orbital movement to said tool carrier.

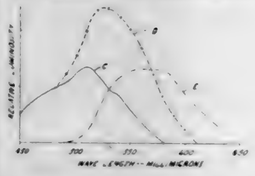


2,531,617
ARRANGEMENT IN COMPRESSED AIR CIRCUIT BREAKERS
Haakon Forwald, Valhalla, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application January 17, 1948, Serial No. 2,914
In Sweden March 24, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 24, 1963
2 Claims. (Cl. 200—148)



1. A compressed air circuit breaker with series connected contact pairs, comprising movable contacts and stationary contacts, a blow-out opening for each contact pair, an extinguishing air valve for the delivery of extinguishing air to said contact pairs, contact operating cylinders, operating pistons movable in said operating cylinders for operating said movable contacts, a separate pipe line directly connecting said operating cylinders with a compressed air container, an operating valve in said pipe line, a valve member for each contact pair for closing the blow-out opening from a consecutive contact pair, an operating piston for each of said valve members, a valve operating cylinder for each of said valve operating pistons, and means giving the contact operating air access to each of said valve operating cylinders, when said contact operating piston in a preceding contact pair has terminated its opening stroke.

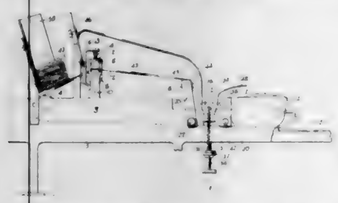
2,531,618
PROCESS FOR MAKING FLUORESCENT SCREENS, INCLUDING THE ELIMINATION OF COPPER IMPURITIES
John J. Geoghegan, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 12, 1948, Serial No. 54,081
11 Claims. (Cl. 252—301.6)



1. In a process for settling phosphor out of a liquid suspension of said phosphor, which liquid suspension contains traces of copper impurities in normally insoluble form, the improvement which consists in utilizing a soluble alkali cyanide dissolved in the liquid of said suspension and effective to convert the copper impurities into soluble cuprocyanide complexes, and removing the supernatant liquid and the soluble complexes included therein.

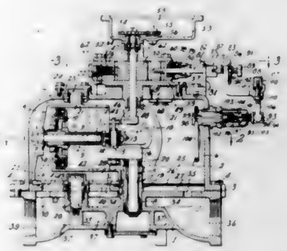
10. In the art of producing fluorescent screens, the steps which comprise: providing an aqueous suspension of phosphor, said suspension containing traces of copper impurities in normally insoluble form; and utilizing a soluble alkali cyanide, dissolved in the suspension liquid, to bring the copper impurities into solution as soluble cuprocyanide complexes.

2,531,619
MACHINE FOR DECURLING LABELS
Harold A. Gonia, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application June 28, 1946, Serial No. 680,235
1 Claim. (Cl. 92—70)



In a machine for decurling labels of the class described, an endless conveyor belt for the labels, means for driving the belt comprising pulleys over which the belt passes, guide rollers engaging the underside of one of the stretches of the belt, said guide rollers being spaced apart, a pressure roller spaced a distance below the level of the guide rollers and engaging the top side of said stretch of the belt intermediate said guide rollers, means for guiding labels carried by the belt so as to cause them to pass between the pressure roller and the belt, a support for the pressure roller having bearings in which the ends of the pressure roller are journaled, said support being mounted for vertical movement, means comprising springs connected with the support for yieldingly pressing said pressure roller downwardly to apply pressure to the labels as they pass between it and the belt, and means for adjusting the tension of said springs.

2,531,620
COMPENSATING MEANS FOR DISPLACEMENT METERS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application February 3, 1949, Serial No. 74,363
7 Claims. (Cl. 73—232)

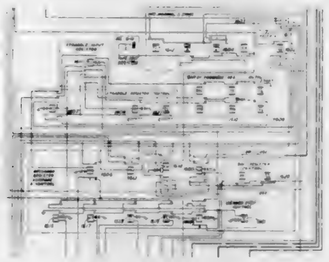


1. In combination with a meter, having an inlet for liquid under pressure, an outlet, displacement means connected to receive liquid from the inlet and to deliver liquid to the outlet, and a driving shaft operated by the displacement means in proportion to the volume of liquid displaced thereby, a by-pass from said inlet to said outlet, a variable capacity pump in said by-pass connected to be driven by said shaft and including a stator element and a rotor element, one of said elements being shiftable relatively to the other to vary the pumping rate for any given speed of said shaft, and means responsive to the temperature of the liquid in said meter to control the movement of the shiftable pump element to increase or decrease the pumping rate proportionately with the rise or fall of the temperature of the liquid.

2,531,621
SPRING SUPPORT FOR VEHICLE RUNNING GEARS
Carl A. Gustafson, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application December 13, 1945, Serial No. 634,639
2 Claims. (Cl. 280—112)

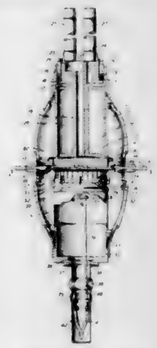
1. In combination with a vehicle having a frame, a spring disposed transversely of the frame, a centrally disposed pivotal connection between the spring and the frame, an axle connected adjacent its opposite ends to the spring, a universal joint on the frame in alignment with the axis of said pivotal connection, and struts connecting the axle with said universal joint and means for supporting the spring at an angle with its plane of flexure normal to a plane intersecting the universal joint and the axle.

2,531,622
AUTOMATIC ACCOUNTING DEVICE
Alfred E. Hague, West Orange, N. J., and Amos E. Joel, Jr., New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 24, 1949, Serial No. 101,090
3 Claims. (Cl. 235—61.7)



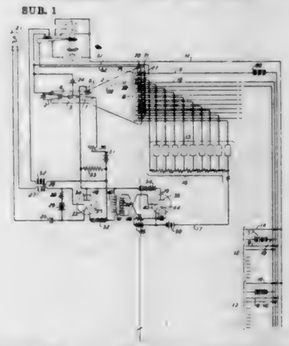
1. In an automatic accounting system in which customer charges for uses of given facilities are derived from scattered items of specific and general information recorded on continuous tapes during and by the said customer uses of the given facilities and wherein the conversion of said data into customer bills is accomplished in a series of steps by a plurality of accounting devices each of which is adapted to read items of information from an incoming tape and to assemble, sort, translate, compute or otherwise rearrange said items and to record the results on a plurality of outgoing tapes, one of said devices consisting of a computer for transforming groups of assembled items of information into customer charges and to issue said charges in billable form, said computer comprising a reader for reading codes from an incoming tape, a plurality of registers for registering information read by said reader and information derived therefrom, one of said registers being provided for registering an item of general information which does not enter into the calculation of a customer charge except when there is a change in the said item during the period over which the data for a said charge is gathered, a supervisory circuit for diverting information from a normal channel to one of said output tapes to a special output tape, a preliminary signal means, a registration changed means, means responsive to a reading by said reader of an item of general information destined for registration in said one of said registers when said one of said registers is idle, or alternatively when said item of general information differs from an item already registered in said one of said registers for operating said registration changed means, said preliminary signal means being thereafter responsive to said registration changed means, means responsive to the complete registration of the specific items of information comprising the data for a customer charge, means jointly responsive to the reading of an item of general information destined for registration in said one of said registers differing from the said item at that time registered in said one of said registers and to said operated preliminary signal means for enabling said supervisory circuit, a calculator for calculating customer charges from said registered information, a plurality of recorders for recording customer charges derived from said registered information, sorting means responsive to said registered information for selecting one of said recorders for each said derived customer charge and a plurality of pattern forming means for deriving from said registered information the information necessary for each output item of information to be recorded by said selected recorder.

2,531,623
HIGH-FREQUENCY ELECTRONIC DISCHARGE DEVICE
Douglas A. S. Hale, Verona, and Reymond J. Kircher, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 16, 1948, Serial No. 54,924
20 Claims. (Cl. 250—27.5)



1. An electron discharge device of the planar electrode type, comprising a pair of hollow vessel sections in opposed relation, cathode and anode elements mounted within said sections with their plane surfaces in aligned axial symmetry, a grid ring extending across and sealed to said sections coaxial and parallel with said cathode and anode elements, a flat spiral grid winding within said ring interposed between said cathode and anode plane surfaces, and a multi-armed support extending within said ring and having the turns of said winding secured thereto, said arms being freely expansible longitudinally in accordance with temperature changes.

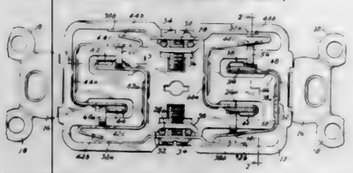
2,531,624
SELECTIVE SIGNALING SYSTEM
Clarence D. Hanscom, Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1947, Serial No. 745,309
6 Claims. (Cl. 179—18)



1. A plurality of telephone circuits each having serial therewith a source of current and a

common calling substation and a different called substation and a different resistance element, each of said resistance elements having a negative temperature coefficient of resistance, the normal resistances of said elements being such that the respective circuits including the respective elements conduct insufficient current to permit said calling substation to signal any one of said called substations over the associated circuit, a stream of electrons not included in any of said circuits, circuit means under the control of said calling substation for directing said stream of electrons at one of said resistance elements to change the temperature of and thus the resistance of said one element thereby to permit the serial circuit associated therewith including the selected element to conduct sufficient current to permit said calling substation to signal only the called substation serially included in said circuit.

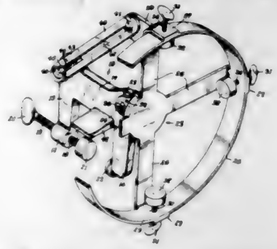
2,531,625
SAFETY ELECTRICAL OUTLET
Harvey Hubbell, Long Hill, Conn., assignor to Harvey Hubbell, Inc., Bridgeport, Conn., a corporation of Connecticut
Application April 8, 1948, Serial No. 19,682
7 Claims. (Cl. 200—51.09)



1. An electrical plug receptacle comprising a body having a plurality of slots oblong in cross-section extending thereinto for the insertion of the blades of a plug, a contact element mounted in the body associated with each slot, a movable contact member connected to the contact element for each slot and extending alongside and spaced from a different one of said plurality of slots, a current supply terminal arranged in said body on the side of each movable contact member opposite the slot alongside which it extends, a passageway in said body opening through a broad side wall of each slot, and a rotatable disc of insulating material movably retained in said passageway with its peripheral surface engaging the movable contact member extending alongside the adjacent slot, said disc being movable into and across the slot with which it is associated and adapted to be engaged on its peripheral surface by the broad side wall of a plug blade when inserted in the slot and moved from the slot and to in turn actuate the adjacent movable contact member into engagement with the oppositely mounted current supply terminal.

2,531,626
LANTERN HOLDER FOR BOATS
Frank E. Hull, Noblesville, Ind.
Application June 30, 1948, Serial No. 36,020
3 Claims. (Cl. 248—310)

1. A mounting bracket of the class described comprising a generally C-shaped body clamp, means carried adjacent one extremity of said body in cooperative relation to the other extremity of said body, holder means pivotally mounted on said body adjacent a corner of said body to swing about an axis substantially perpendicular to the plane of said body, a link connected to said holder means at a point remote from said axis, and means cooperating with said body and said link for retaining said holder means in any selected position of adjustment about said axis,



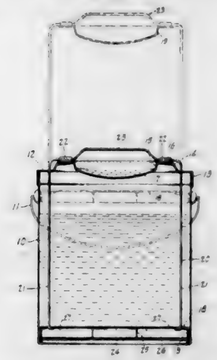
said last-named means comprising a screw threadedly engaging said body and clampingly engageable with said link at selected points in the length of said link.

2,531,627
VACUUM CLEANER ATTACHMENT
Bernard S. Jablon, New York, N. Y.
Application May 12, 1947, Serial No. 747,537
5 Claims. (Cl. 183—51)

1. In combination with a vacuum cleaner bag having a discharge opening at the top end thereof, a filter mounted in the discharge opening, comprising an inner sleeve having one end inserted into the discharge opening and formed at its inner end with a circular seat and having its outer end closed by a wall formed with a central bearing and a plurality of exhaust holes arranged in a circle about said central bearing, means securing the material of the bag defining the discharge opening about the periphery of said sleeve, a plurality of discs held spaced from one another positioned in said inner sleeve, the outermost of said discs being in facial contact with the inner face of said wall, said discs having offset openings communicating with the discharge openings of said wall and aligned holes aligned with said central bearing, filter material positioned in said sleeve in contact with the innermost of said spaced discs, an inner disc engaging said circular seat closing the open end of said sleeve and formed with a central hole aligned with the aligned holes of said spaced discs and a plurality of openings leading from the bag into said sleeve formed in said inner disc about said central hole, and means engaged through said central hole of said inner disc, said filter material, said aligned holes of said spaced discs, and said central bearing securing said inner disc in position on said circular seat.

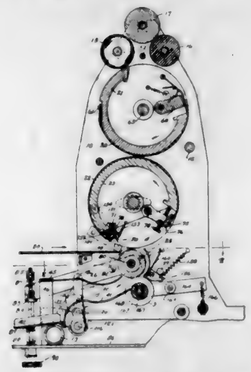
2,531,628
MINNOW PAIL
Maximillian P. Janisch, Milwaukee, Wis.; Bride Janisch and Myra J. Hess executrices of said Maximillian P. Janisch, deceased
Application March 12, 1945, Serial No. 582,205
1 Claim. (Cl. 43—56)

A minnow pail including a false bottom, said false bottom having an air trap, vertically movable actuating means extending through the top of said pail for raising and lowering said false bottom, said pail having a top opening, a lid movable to open and close said opening, and means for rockably mounting said lid on said vertically



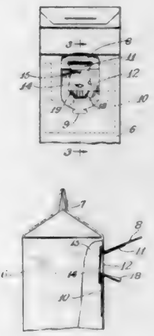
movable actuating means for actuation thereby and for permitting tilting of said lid within said top opening into edgewise engagement with the edge of the top opening so as to sustain said lid in open position.

2,531,629
SHEET DELIVERING MEANS IN ROTARY PRESSES
Edward J. Janke, Cleveland, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application April 29, 1944, Serial No. 533,276. Divided and this application September 15, 1945, Serial No. 616,493
5 Claims. (Cl. 101—232)



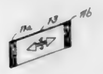
1. The combination with a pair of upright frame plates of a printing drum and a roller platen carried by and between the frame plates, a diverting roller engaging the platen, and a deflector cooperating with the platen between the drum and roller, said deflector comprising a bail pivoted to the frame plates and carrying upwardly extending forwardly curved fingers at the rear of the platen, adjustable stops carried by the frame plates to engage the bail and limit the approach of the fingers to the platen, and a spring normally holding the bail against the adjustable stops while allowing the deflector to be swung away from the platen.

2,531,630
CREAM REMOVER
John Paul Jones, Omaha, Nebr., assignor to Dairy Specialties, Inc., a corporation of Nebraska
Application June 18, 1945, Serial No. 600,046
9 Claims. (Cl. 222—528)



1. The combination with a paper milk bottle having a wall with a pouring aperture and a hinged flap and an inner wall strip attached to the inside surface of the wall with an opening and a hinged tab adhering thereto and opening therewith, of a cream draw-off attachment comprising a paper-like sheet secured over the inner wall strip opening and having a lower discharge opening at the lower cream level and an air inlet opening above the upper cream level.

2,531,631
TEXTILE LABEL
Clifford Jordan, Glen Rock, N. J.
Application August 27, 1949, Serial No. 112,747
1 Claim. (Cl. 40—2)

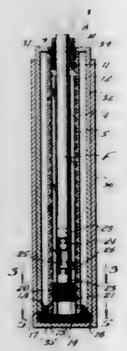


A fabric tape label for cloth fabrics comprising a panel having a display side and a plain side and tabs formed from opposite edges of the said panel coated with heat and pressure adhesive on their face corresponding to the display side of said panel, said display side and plain side of the panel being free of adhesive, said tabs extending reversely under the display side of the panel and with the adhesive face of each of the tabs facing away from the plain side of said panel, whereby the adhesive face of each tab is placed in adhesive contact with a cloth fabric independently of the said panel.

2,531,632
CIGARETTE LIGHTER
Richard F. Landwehr, Laurelton, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application October 27, 1949, Serial No. 123,963
5 Claims. (Cl. 67—7.1)

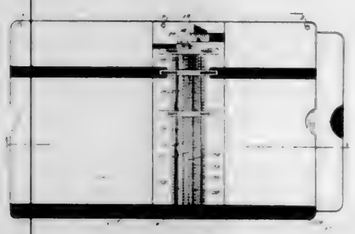
1. For use with a cigarette lighter, a casing defined by side and end walls and a top wall having an opening for receiving the upper end of the flint holding tube therethrough, a flint holding

tube whose upper end is to be engaged through said opening in the top wall, means engaging the bore of the tube to advance the flint, said means including a manually rotatable member to be located at the bottom of the casing and an up-



standing inwardly beveled flange provided on the upper end of said member which engages the bottom edges of the side walls whereby the lower end of said flint holding tube is guided to center itself with respect to the lower edges of the side walls.

2,531,633
INTEREST COMPUTING DEVICE
Elmer F. Laurin, Arlington Heights, Ill.
Application May 6, 1949, Serial No. 91,807
3 Claims. (Cl. 235—89)



1. A device for computing interest including a panel having window portions divided in a vertical direction by means denoting progressive intervals of time, and divided in a horizontal direction by other means into columns for designating whole number and decimal positions, and a slidable panel bearing figures computed to denote progressive values of interest at given rates and arranged in a series of successive columns, each of the several columns representing interest computations at different rates, said slidable panel being constructed and arranged for sliding movement relative to said first mentionel panel in a direction laterally of the columnar divisions of said window portions, whereby selective positioning of a column of computed interest so that at least a portion thereof is visible through the windows, the visible portions thereof indicate interest computed at a selected rate for the several denoted time periods and the columnar divisions of said window portions locate the whole number and decimal positions of said interest computations.

2,531,634
ACOUSTICAL DIAPHRAGM WITH STIFFENING MEANS
Athol E. N. Lawrance, Johannesburg, Transvaal, Union of South Africa
Application November 19, 1945, Serial No. 629,559
In the Union of South Africa January 11, 1945
8 Claims. (Cl. 181—32)

1. An acoustical diaphragm comprising a thin vibratory member of continuous and imperforate sheet material of circular form including stiffening means producing a stiffened area in which the stiffening along any arc of constant radius lying wholly in said stiffened area increases progressively and the total linear extent of the stiffening of the successive radii of said arc increases progressively.

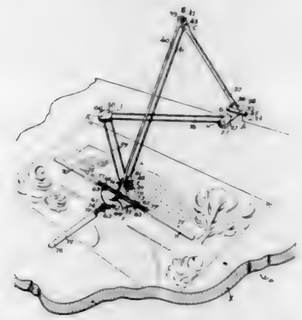
2,531,635
HUNTING ARROW AND ARROWHEAD
Henry T. Maager, Delavan, Wis.
Application August 6, 1948, Serial No. 42,922
4 Claims. (Cl. 273—106.5)

1. An arrow head molded of a resilient rubber compound and adapted to be assembled on a shaft to make a hunting arrow, said head having a solid forward striking portion with a blunt but rounded end and a body portion having a cylindrical bore of uniform diameter therein for reception of said shaft, said body portion being rearwardly and substantially uniformly tapered to an end diameter which approximates the diameter of the shaft when the head is assembled thereon, the said arrow head as a whole having a streamlined contour, and the length of the body portion which surrounds the shaft being at least three times the length of the forward striking portion.

2,531,636
INSTRUMENT FOR MAKING PERSPECTIVE DRAWINGS
Edward E. McCullough, Minneapolis, Minn.
Application April 2, 1949, Serial No. 85,216
10 Claims. (Cl. 33—77)

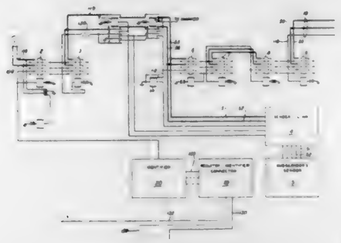
1. In an instrument of the class described, a member having a swivelled bearing applicable to a relatively fixed support, a slidable base plate having a swivelled bearing, a floating connector on the base plate, a long upwardly and forwardly inclined rod hinged at its lower end to the first noted bearing, a primary arm pivoted at one of its ends to the outer end of the rod and hinged at its other end to the connector, a secondary arm substantially parallel to the primary arm and pivoted at its upper end to the rod inwardly of the primary arm and hinged at its lower end to the bearing on the base plate, an oblique pivoted link connecting the primary arm to the bearing on the base plate, three straight-edges attached at one of their ends to the connector to turn about a vertical axis, two of the straight-edges projecting in opposite directions from the plane

of the rod and the primary and secondary arms, the third arm being in said plane, a fulcrum guide on the base plate for each straight-edge, and two pairs of parallel arms in the form of a horizontally disposed toggle joint, the arms of one of the



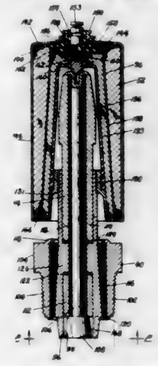
pairs being pivoted at their outer ends to the member and the arms of the other pair being pivoted at their outer ends to the base plate, the arms of said pairs being pivotally connected at their inner ends.

2,531,637
AUTOMATIC CALL RECORDING SYSTEM FOR AUTOMATIC TELEPHONY
Charles G. Miller, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 24, 1946, Serial No. 664,568
9 Claims. (Cl. 179—7.1)



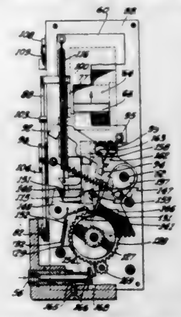
5. In a telephone system for the automatic recording of items of call-record information pertaining to a telephone connection, the combination of a calling line having an identifying designation, a called line having an identifying designation, a trunk, means for establishing a connection between said calling line and said called line over said trunk, means operative to identify and register the designation of said calling line, a register-sender, alternating-current means operative under the control of said calling line identifying and registering means when the latter is operated for transmitting said calling line designation by multifrequency impulses to said register-sender over said trunk, means operative to register said called line designation, a recording device, and means whereby said recording device is responsive to said operated register-sender and to said called line registering means when operated to record both of said designations.

2,531,638
IGNITION CIRCUIT
Raymond J. Miller, Detroit, Mich.
Original application June 21, 1943, Serial No. 491,584. Divided and this application September 23, 1948, Serial No. 50,720
8 Claims. (Cl. 315—57)



1. In a spark producing assembly, a central spindle terminating in a sparking electrode, a transformer having its primary winding surrounding said spindle, and its secondary winding surrounding said primary winding, a metallic casing surrounding said secondary winding, said casing having an extension surrounding said sparking electrode and constituting a co-operating electrode, and means connecting the ends of said secondary winding with said spindle and casing, respectively.

2,531,639
PHOTOGRAPHIC SHUTTER
Arthur P. Neyhart, Los Angeles, Calif., assignor to Mitex Camera Company, Los Angeles, Calif., a partnership
Application December 10, 1946, Serial No. 715,191
12 Claims. (Cl. 95—55)



1. In a camera of the class described, an actuating arm manually operable in one direction, a spring urging return of said arm to an inactive position, a first shutter and a second shutter tensionable by the manual movement of said arm, shutter latching mechanism individual to each of said shutters, shutter releasing mechanism for said first shutter actuable by the spring urged movement of said arm, separate shutter releasing mechanism for said second shutter actuable by the movement of said first releasing mechanism at a predeterminable interval thereafter, a trigger engageable with said arm after

the manual movement thereof to limit the return thereof whereby said first shutter releasing mechanism is held inactive, means for moving said trigger out of said limiting position to a position wherein it permits said first shutter releasing mechanism to become active, and means for initially locking said trigger in said last-named position whereby said first shutter releasing mechanism is automatically actuated by the return of said arm.

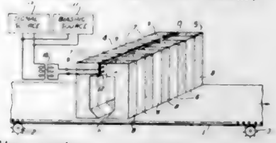
2,531,640
APPARATUS FOR TURNING GLASS SHEETS
Edward C. Oberstar, Ottawa, Ill., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,021
10 Claims. (Cl. 198—33)

1. In a device of the class described, in combination, a runway along which an uprightly supported glass sheet may travel, means for pushing the glass sheet along the runway, said runway having a gap into which the sheet falls forwardly as it passes thereabove along the runway, and means positioned to catch the falling sheet along its formerly forward edge and to support it in position to be engaged and driven forward along the runway by engagement between the pushing means and the formerly bottom edge of the glass sheet.

2,531,641
INDICATING EXTENSION-ATTACHMENT FOR COLLAPSIBLE TUBES
Howard A. Perrigo, Hamden, Conn.
Application May 28, 1949, Serial No. 96,022
4 Claims. (Cl. 116—114)

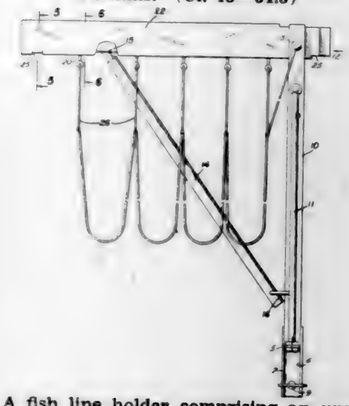
1. As a new article of manufacture, an indicating extension-attachment for collapsible tubes having caps, including: a body formed of transparent material and provided at one end with a coupling-neck designed and adapted to have a cap mounted thereover and also having an outwardly-facing sealing-seat; the said body being provided at its opposite end with a coupling-recess designed and adapted to receive the neck of a collapsible tube and with an inwardly-facing sealing-seat; the said transparent body being also formed with an extrusion-passage leading from its said coupling-recess to and through its said coupling-neck; and the said body further having coupling-means on its said coupling-neck for coupling a cap thereto and coupling-means in its said coupling-recess for coupling the device to the neck of a collapsible tube.

2,531,642
MAGNETIC TRANSDUCING SYSTEM
Ralph K. Potter, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 30, 1947, Serial No. 783,057
9 Claims. (Cl. 179—100.2)



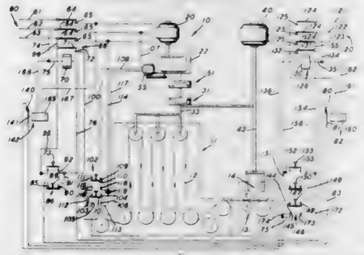
9. A filter system comprising an input circuit, an output circuit, a magnetic recorder and a magnetic reproducer disposed at spaced points along a movable magnetic record carrier in wave transducing relation therewith, said recorder comprising a unitary structure having a multiplicity of distinct portions all coupled to said input circuit and adapted to record at respectively different corresponding laterally separated points on said magnetic record carrier whereby an electrical signal appearing in said input circuit is simultaneously recorded in respectively corresponding laterally separated tracks along said magnetic record carrier, said reproducer comprising a unitary structure having a multiplicity of distinct portions all coupled to said output circuit and adapted to reproduce from respectively different corresponding ones of said laterally separated tracks, said reproducer portions being differently spaced from said recorder portions whereby the signal reproduced by each of said reproducer portions is in time-displaced relation with the signal reproduced by each of the other said reproducer portions, said coupling to at least one of said circuits being varied from one to another of said multiplicity of portions in accordance with a predetermined weighting function.

2,531,643
TROTLINE HANGER
Tom Pringle, Ardmore, Okla.
Application December 12, 1946, Serial No. 715,788
2 Claims. (Cl. 43—54.5)



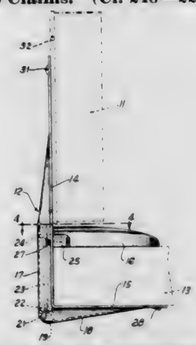
1. A fish line holder comprising an upstanding member, attaching means therefor, an arm at the upper end of the member for hanging fish hooks thereon, a shield including a clip and a bolt, said bolt and clip detachably connecting the shield to the arm in a position for covering the hooks.

2,531,644
DIFFERENTIAL DRIVE ASSEMBLY FOR ARTICLE-HANDLING DEVICES
Vincent A. Rayburn, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 14, 1945, Serial No. 610,834
2 Claims. (Cl. 271—2.3)



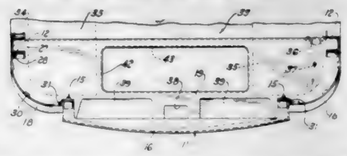
1. An apparatus for handling filaments, which comprises means for advancing a filament, a second filament-advancing means arranged in tandem with the first filament-advancing means, a shaft for driving the first filament-advancing means to move a filament therethrough toward the second filament-advancing means, a one-way clutch mounted on the shaft for driving the driving means, a source of power for driving the one-way clutch to drive the shaft, a second shaft for driving the second filament-advancing means to advance a filament from the first filament-advancing means, a second source of power for driving the second shaft, a second one-way clutch mounted on the first shaft, means for connecting the second one-way clutch to the second shaft to drive the second one-way clutch by the second shaft, whereby the first filament-advancing means may be driven in synchronization with the second article-advancing means by the second shaft, and means for selectively energizing the first source of power and the second source of power.

2,531,645
BRACKET FOR REMOTE CONTROL UNITS
David C. Rockola, Chicago, Ill., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application February 20, 1947, Serial No. 729,793
6 Claims. (Cl. 248—226)



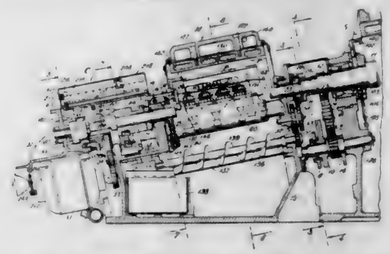
3. A device of the class described, comprising a right-angled frame member, a clamping member slidably mounted on one portion of said frame member for movement relative to the other portion of said frame member disposed at right angles to said first portion, means interconnecting said members and operable to slidably adjust the relative positions thereof to effect a clamping action, and means for rigidly securing said clamping member to said frame member in any adjusted position.

2,531,646
DOOR STRUCTURE
David C. Rockola, Chicago, Ill., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application February 28, 1947, Serial No. 731,492
10 Claims. (Cl. 312—189)



8. In combination with an open front cabinet for an automatic phonograph mechanism having supporting legs with portions thereof extending forwardly of the cabinet; a metal door structure, comprising an outer frame shaped to conform to the vertical sectional shape of the top and sides of said cabinet and pivotally mounted at one side on said cabinet, an inner frame spaced inwardly from and shaped similarly to said outer frame and adapted to support part of the mechanism of said phonograph, means interconnecting said inner and outer frames, and a floor member interconnecting at least some of said interconnecting means and said outer frame to complete the bottom of said door structure; a roller mounted at the bottom of said door structure on the side opposite that pivotally mounted on said cabinet, and track means mounted on the upper part of the forwardly extending portion of one of said legs cooperating with said roller to guide closing movements of said door structure relative to said cabinet.

2,531,647
STEREOTYPE PLATE FORMING AND FINISHING MACHINE
Oscar C. Roesen, Scarsdale, N. Y., Charles L. Ricards, South Plainfield, and Paul L. Tollison, North Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application September 10, 1946, Serial No. 695,964
17 Claims. (Cl. 90—15)



1. In a machine for milling pockets in stereotype plates, the combination of a support for a

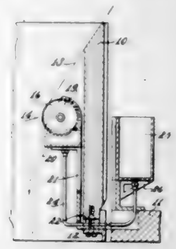
semi-cylindrical plate, a cutter bar, means for mounting said cutter bar to rock about and slide along an axis parallel to the axis of a plate in said support, a plurality of parallel cutter spindles journaled in said cutter bar and extending radially of said bar axis, a cutter fixed to each of said spindles, means for simultaneously rotating said spindles, and means for moving said cutter bar longitudinally along its axis and for rocking said cutter bar about said axis during its longitudinal movement, whereby all of said cutters are moved in unison into contact with and along the interior surface of a plate on said support.

2,531,648
COMBINED REMOTE CONTROL AND EXTENSION FOR TELEPHONES
George J. Rovnak, Campbell, Ohio
Application February 20, 1947, Serial No. 729,709
2 Claims. (Cl. 179—146)

1. The combination of a telephone instrument having two transmitter-receivers electrically connected therewith, one of which is normally positioned on the said telephone instrument and the other of which is located remotely with respect thereto, and means for controlling the said telephone instrument from the said remotely located transmitter-receiver, said means comprising a support for the said telephone instrument, a lever pivotally affixed between its ends to said support and having one end engageable beneath the transmitter-receiver on the said telephone instrument, a flexible cable attached to other and of the said lever arm and extending to the remotely located transmitter-receiver, a pivoted holder affixed to a support and to the said flexible cable and adapted to normally hold the said remotely situated transmitter-receiver, and a weight affixed to said flexible cable and normally urging the said pivoted holder upwardly so as to move the said flexible cable and lift the first mentioned transmitter-receiver from the said telephone instrument, the said pivoted holder normally held inoperative by the said remotely situated transmitter-receiver.

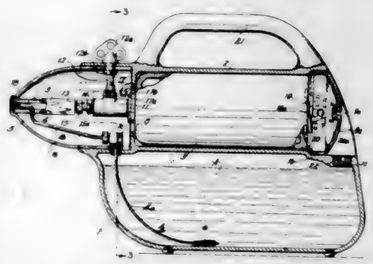
2,531,649
KNITTING MACHINE
Samuel Saftlas, Newark, N. J.
Application July 23, 1946, Serial No. 685,705
4 Claims. (Cl. 66—147)

1. In a circular knitting machine having wind up means to draw the tube of fabric under tension from the knitting instrumentalities, a pair of spaced spreading rings positioned within the tube of fabric between the knitting instrumentalities and the wind up and over which the fabric travels in tensioned cylindrical form, a rotary printing member mounted in printing engagement with the surface of the fabric between said rings, means to supply printing material to said printing member, a disc, a shaft common to said printing member and disc, and teeth formed on the



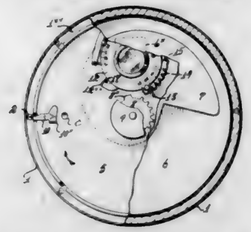
periphery of said disc and engageable in a linear series of stitches of the fabric to rotate the printing member and maintain the application of printing material to the fabric by the printing member in a predetermined relation to the linear series of stitches engaged by said teeth.

2,531,650
SPRAYING DEVICE
Hamilton R. Stagner, Cleveland, Ohio
Application January 23, 1946, Serial No. 642,796
5 Claims. (Cl. 299—86)



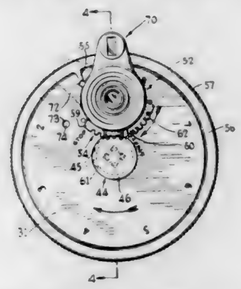
1. In a spraying device, the combination of a casing having side walls and an intermediate wall connected to said side walls to form a closed container for the liquid to be sprayed and a compartment, a cylinder charged with a gaseous medium under pressure removably supported in said compartment and provided at its inner end with a fitting, through which the medium is discharged, means detachably engaging the wall of said compartment and the opposite end of the cylinder for securing the latter in said compartment, a nozzle, a reducing valve between and detachably connected at its opposite ends to the inner end of said nozzle and the adjacent end of said discharge fitting for the cylinder, to provide a direct flow connection for the gaseous medium from said cylinder to said nozzle, a conduit for the liquid in said container extending through the wall of said compartment and the side wall of said nozzle, the outer end of said conduit being disposed concentrically to the inner wall of said nozzle and terminating substantially of the outer end of the latter, and an enclosure for said nozzle and said valve removably connected to the adjacent wall of said compartment.

2,531,651
FILM CASSETTE FOR CAMERAS
Wilfred E. Tait, Westport, and August W. Stellpflug, Weston, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y.
Application May 7, 1947, Serial No. 746,496
10 Claims. (Cl. 95—38)



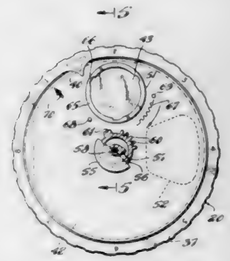
1. In a camera, a casing comprising separable sections and adapted to enclose a sensitized film, a rotational group of elements carried by the casing and including an outer plate apertured to receive a lens mounting, a lens mounting adapted to be received by and then rotationally interlocked with the aperture of the outer plate and having a toothed extension, a shutter rearwardly of the outer plate, and a toothed member carried by the shutter and adapted for operative engagement by said toothed extension when the lens mounting is received in the aperture of the outer plate.

2,531,652
CAMERA
Wilfred E. Tait and August W. Stellpflug, New Canaan, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application September 18, 1948, Serial No. 49,896
6 Claims. (Cl. 95—38)



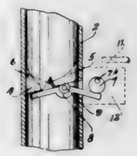
1. A film cassette for holding sensitized film in sheet form and adapted to expose successive areas of the film by rotational displacement of a closure having an exposure aperture and a shutter therefor; said cassette comprising a thin flat base member having means for fixedly holding two sheets of film, one against each face of the base, said base member being provided with an integral widened rim extending along its perimeter to define a shallow recess on each side of the base for receiving the film, a closure assembly including an apertured closure plate and a shutter for the aperture received in each of said recesses spaced from the film holding face of the base by at least film thickness, said rim being peripherally grooved and separate means on each side of the base rotatably holding each closure assembly to the base.

2,531,653
FILM CASSETTE FOR CAMERAS
Wilfred E. Tait and August W. Stellpflug, New Canaan, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application June 30, 1949, Serial No. 102,242
11 Claims. (Cl. 95—38)



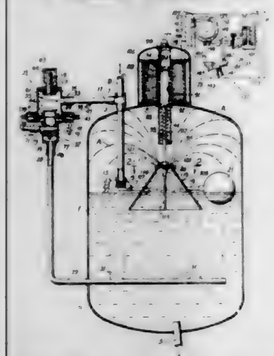
1. A light-tight film cassette for use with a detachable image forming unit to complete a camera, said cassette comprising a film-supporting base and a cover therefor, said cover having an aperture through which an image may be cast upon the underlying area of film supported on said base, said cover being mounted on said base for rotation relative thereto so that images may be successively cast upon different areas of said film, means on the cover for attaching said image forming unit and an abutment carried by said base and positioned to be encountered by said means after a predetermined successive number of rotative movements of the cover in one direction relative to the base.

2,531,654
AUTO ROAD SANDER
Robert L. Taylor, Akron, Ohio
Application March 22, 1949, Serial No. 82,895
2 Claims. (Cl. 291—28)



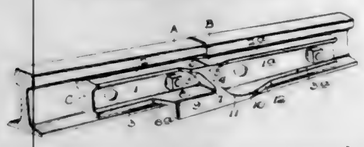
1. A sander for a vehicle, comprising a container for sand, or similar material, a delivering part in the form of an elongated hollow member extending downward from said container, said hollow member having a baffle and a valve positioned therein, the said hollow member terminating in a nozzle adapted to spread the material from said container as such material is discharged from such container, the said baffle forming an inclined seat, for said valve, said valve pivotally attached to the surface of the said hollow member, said valve having an inwardly and an outwardly extending arm lying in different planes, said outwardly extending arm positioned to contact an outside driven cam to operate the inwardly extending arm, the operation of said inward valve arm adapted to regulate the flow of material from the said container through the said nozzle for discharge therefrom.

2,531,655
GAS DISSOLVING APPARATUS
Parke H. Thompson, Kirkwood, Mo., assignor, by mesne assignments, to Marion L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo.
Application March 2, 1946, Serial No. 651,647
4 Claims. (Cl. 261—82)



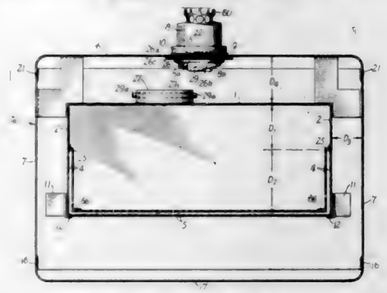
1. In apparatus of the character described, a tank means for maintaining liquid at a predetermined level below the top thereof and a free gas space over the liquid, a plunger slidably mounted in the top of said tank and extending downward into said tank, means for reciprocating said plunger, a hollow plunger cup mounted rigidly on the lower end of said plunger, the wall of said cup flaring outward and downward from said plunger, said cup being located at such position in reference to said predetermined level as to be partially immersed when the plunger is at the lower limit of its stroke, said cup further being constricted in its upper end in the formation of a nozzle adapted, when the cup is forced downward into liquid in the tank, to spray said liquid upward and outward into the free gas space and against the top and upper side walls of said tank in shower-like formation.

2,531,656
COMPROMISE JOINT
Thurland G. Thonger, Manhasset, N. Y., assignor to Poor and Company, Chicago, Ill., a corporation of Delaware
Application December 24, 1947, Serial No. 793,674
6 Claims. (Cl. 238—167)



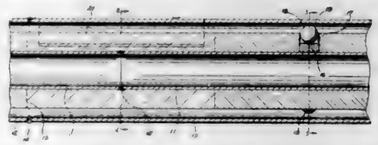
1. A compromise splice bar for connecting rails of different heights, said bar comprising high and low end portions formed to fit the fishing spaces of the high and the low rails, respectively, and each including a head, a web and a base, a flange extending longitudinally of and outwardly from the inner end portion of the base of the high end portion of said bar, a fin at the outer side of the bar integral with the webs of said high and low end portions of the bar joined at its lower end to said flange and extending from the latter diagonally across the medial portion of the bar to the inner end portion of the head of the low end portion of the bar and joined at its upper end to the latter, a flange extending longitudinally of and outwardly from the inner end portion of the base of the low end portion of the bar and joined to said fin, and a vertical flange extending downwardly from said second mentioned flange and joined to said fin.

2,531,657
GAS GENERATOR
Henry Tobler, Jr., Yonkers, N. Y., assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y., a corporation of New York
Application February 6, 1945, Serial No. 576,488
3 Claims. (Cl. 23—282)



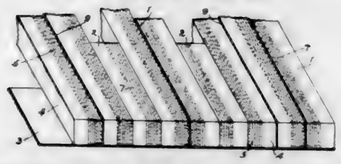
1. A portable apparatus for generating and supplying gas for inflation of signal balloons and the like, comprising an outer shell, a removable bottom for said shell, whereby the apparatus may be readily immersed in water when such bottom is removed, the top wall of said shell being provided with a gas escape opening, a charge container mounted in said outer shell and spaced from the top, side and end walls thereof, said charge container having a perforated bottom and having end walls, the lower portions of which are perforated while the upper portions of said end walls are unperforated, a detachable closure for said gas escape opening in the top of said outer shell, a gas escape tube, coupling means for coupling said gas escape tube to said gas escape opening, said gas escape tube being movable downwardly to engage said closure to detach it from the gas escape opening.

2,531,658
SUPPORT FOR A PIPE WITHIN A CONDUIT
James F. Walsh, East Cleveland, Ohio
Application August 30, 1946, Serial No. 693,891
2 Claims. (Cl. 138—48)



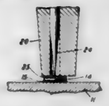
1. In combination, a pipe composed of sections of tubing welded together and a conduit surrounding the pipe, the conduit being composed of sections of tubing welded together, the sections composing the pipe being of the same length as the circumjacent sections composing the conduit, the joints in the pipe being spaced a constant distance from the joints in the conduit and being in staggered relation thereto.

2,531,659
MAT
Frank Watson, Fort Garry, Manitoba, Canada
Application May 23, 1945, Serial No. 595,383
1 Claim. (Cl. 154—49)



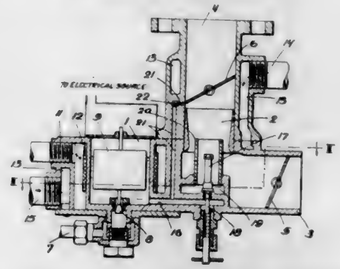
A yielding rolling mat comprising a plurality of similar longitudinally extending, spaced, rubber strips half reinforced longitudinally by cord and with the cord extending vertically, spacers of similar material between the strips and appearing in transversely extending rows and relatively thin, flexible, cross strips of rubber composition, underlying the rows of spacers and aforesaid strips and adhesively secured thereto.

2,531,660
FABRICATION OF PIEZOELECTRIC CRYSTAL UNITS
Arthur W. Ziegler, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 27, 1949, Serial No. 112,779
5 Claims. (Cl. 154—118)



1. In the method of equipping a crystal with a lead wire, the step comprising securing a disc to the crystal by an adhesive and imparting relative motion between the disc and the crystal to spread the adhesive over a wider area of the crystal.

2,531,661
CARBURETOR
Otto Alfred Arvastsson, Malmo, Sweden
Application November 25, 1946, Serial No. 712,086
In Sweden August 17, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires August 17, 1960
3 Claims. (Cl. 261—14)

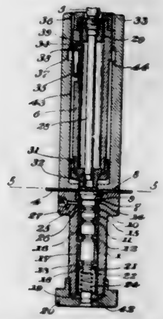


1. A carburetor for internal combustion engines comprising a float chamber, a mixing chamber having a main air inlet and an outlet to be connected to the intake manifold of the engine, said main air inlet being open to the atmosphere and constituting a direct extension of said mixing chamber, a tubular fuel vaporizing chamber vertically arranged in said mixing chamber and opening into said mixing chamber, a fuel nozzle in said tubular fuel vaporizing chamber vertically and concentrically arranged therein and communicating with said float chamber, the upper end of said fuel nozzle being substantially below the upper edge of said tubular vaporizing chamber, a heating chamber surrounding said float chamber and having an air inlet, an extension on said heating chamber constituting a heated air outlet, said heated air outlet opening into the lower end of said tubular fuel vaporizing chamber around said fuel nozzle, and heating means in said heating chamber whereby air enters said heating chamber and upon being heated by said heating means heats said float chamber and fuel therein and subsequently passes into said tubular fuel vaporizing chamber, ejecting heated fuel from said nozzle into said tubular chamber, vaporizing and further heating the heated fuel in said chamber, unheated air from said main air inlet passing the open end of said tubular chamber into said mixing chamber and ejecting the heated and vaporized mixture from said tubular fuel vaporizing chamber into said mixing chamber for further mixing with the unheated air from said main air inlet open to the atmosphere before entering the engine through said intake manifold.

2,531,662
DRILLING FLUIDS
Robert W. Beck, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application January 18, 1947, Serial No. 722,953
3 Claims. (Cl. 252—8.5)

1. A low-viscosity, stable, light-weight, drilling fluid which consists essentially of about 25 to 60 volume per cent of a distillate petroleum oil boiling in the naphtha to diesel oil boiling range dispersed in about 75 to 40 volume per cent of an aqueous mud containing sufficient gel forming clay to have a 10 minute gel strength of at least 3 grams.

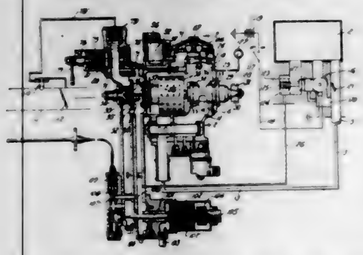
2,531,663
PUNCHING AND DRAWING PRESS
Oreste Flavio Alfred Biginelli, Pietro Alexandro Maggiorino Biginelli, and Alexandro Giovanni Battista Andrea Biginelli, Clermont-Ferrand, France
Application December 12, 1947, Serial No. 791,436
In France December 27, 1946
1 Claim. (Cl. 113—42)



In a machine for the manufacture of deep metallic containers such as cases from a continuous metallic strip, the combination compris-

ing a casing of generally elongated form, divided into an upper portion and a lower portion by a transverse slot for guiding the strip to be cut, said upper portion having a cylindrical recess, a sliding sleeve displaceable in said cylindrical recess, a cap mounted upon the upper portion of said sliding sleeve, a conical bore forming peripheral inclined slopes in the internal face of said cylindrical recess throughout all of its periphery, a cylindrical enlarged bore provided in said cylindrical recess below and following said conical bore, a cutting punch carried at the lower end of said sliding sleeve, a dishing-drawing punch sliding axially in said sliding sleeve and capable of projecting beyond said cutting punch, pressure means, an assembling nut connecting the upper portion of said dishing-drawing punch to said pressure means and forming an abutment against said cap for raising said sliding sleeve by said dishing drawing punch, radiating keys mounted radially slidingly in said sliding sleeve, springs applied to said radiating keys and maintaining them in exterior engagement with said conical bore and said enlarged boring, said radiating keys being thus capable of projecting into the bore of the sliding sleeve when they are in exterior engagement with the walls of the conical bore and thus forming an abutment for said nut in its descending stroke, said radiating keys being moved aside when they are in contact with said enlarged cylindrical bore which permits the projection of said dishing-drawing punch across said immobilized cutting punch, cutting female dies, dishing female dies, drawing female dies, said female dies being disposed axially following one another in the interior of the lower portion of the casing upon the trajectory of said punches.

2,531,664
ROTARY FUEL METERING PUMP AND EMERGENCY MEANS INSURING FUEL FEED UPON PUMP FAILURE
Jay A. Bolt, South Bend, Ind., and Frederick P. Jackson, Dayton, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 6, 1946, Serial No. 660,248
13 Claims. (Cl. 158—36.4)

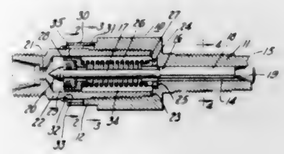


1. In a system for metering fuel to an engine wherein the flow of fuel through a conduit to the engine is regulated by a valve located in the conduit and controlled by an element rotating in synchronism with the engine and to which fuel is supplied through the conduit under pressure by an engine-driven pump provided with a rotor and having a driving connection with said element; means whereby should the rotor of the engine-driven pump fail due to jamming or seizure the drive on said rotating element is maintained, and means supplementing said pump for maintaining a supply of fuel under pressure to said valve.

2,531,665
MANUFACTURE OF EXPANDED THERMOPLASTIC MATERIALS
Stanley Booth, Dedham, England, assignor to Expanded Rubber Company Limited, Croydon, England
No Drawing. Application November 13, 1946, Serial No. 709,416. In Great Britain July 4, 1946
4 Claims. (Cl. 18—48)

1. A process for the production of an expanded thermoplastic material which comprises submitting the material selected from the group consisting of polystyrene, polymethylmethacrylate, polyethylene, and cellulose esters and ethers at a temperature of the order of 100 to 125° C. to impregnation with an inert gas under pressure without the aid of a volatile solvent and cooling the material until rigid before releasing the pressure, then heating the material to the plastic state in a sufficiently confined space to prevent any substantial expansion of the material from the absorbed gas, and consequently to prevent any cell formation during the heating up, and when the material is plastic throughout suddenly releasing it from confinement and rapidly cooling the expanded product.

2,531,666
NOZZLE
Howard S. Bower, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 9, 1945, Serial No. 587,349
8 Claims. (Cl. 299—107.6)



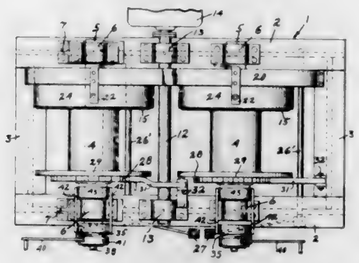
1. An injection nozzle comprising a nozzle body having a flow passage therein terminating in an injection opening, a port through which fuel flows to said passage, said port and injection opening being in spaced series flow relation, a movable valve member including a stem united to a valve element controlling said injection opening and another valve element adapted to control said inlet port, and spring means normally urging said valve elements toward seated position, the length of the stem and the location thereon of said valve elements being such that as long as the stem and said first-named valve element remain intact, only said first-named element is seated by said spring means, but in the event of breakage of the stem or said first-named element said second-named valve element will be seated by said spring.

2,531,667
METHOD OF AND APPARATUS FOR ADMINISTERING REPEATED INJECTIONS
Bernard J. Brent, Montclair, N. J.
Application December 1, 1947, Serial No. 789,088
10 Claims. (Cl. 128—220)

1. A device for administering repeated injections of therapeutic fluids which comprises in combination an injection syringe having a barrel which is open at one end and provided with a discharge opening at the other end, said barrel being adapted to be secured to the body of the patient during the period of treatment, a replaceable ampoule containing an injection fluid adapted to slide into the open end of said barrel, said ampoule having a discharge end normally closed by a resilient plug, a hollow needle mounted longitudinally in said barrel, with an end adapted to pierce said resilient plug to establish communication between the injection fluid in the ampoule

and the interior of said needle when said ampoule is pressed into said barrel, plunger means mounted in said barrel adapted to push said plug as a piston into said ampoule to discharge said fluid into said needle as the ampoule is pressed into said barrel, and a flexible tube having an inlet end communicating with the discharge opening of said syringe and a discharge end adapted to dwell in the patient during the period of treatment.

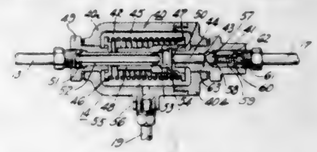
2,531,668
HOIST
Henry A. Briggs, Spokane, Wash.
Application September 22, 1947, Serial No. 775,480
3 Claims. (Cl. 254—185)



1. A hoist comprising a frame, a power shaft rotatably mounted across said frame, a supporting shaft rotatably and slidably mounted across the frame, a drum rotatably carried by said supporting shaft, a pinion carried by said power shaft, a gear keyed to the supporting shaft and meshing with said pinion, a clutch carried by said gear for engaging the drum and causing turning of the drum with the gear, a spring about the shaft having its ends abutting the drum and the gear and applying pressure longitudinally of the shaft for urging the supporting shaft and its gear to a position releasing the clutch from the drum, bars at opposite sides of the supporting shaft, an internally threaded collar carried by said bars, a sleeve screwed into said collar, a thrust bearing for said supporting shaft in said sleeve, a disc in the sleeve secured to the supporting shaft, and means for rotating the sleeve and thereby move it through the collar and shift the supporting shaft longitudinally and move the gear towards and away from the drum.

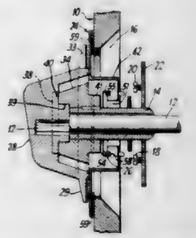
2,531,669
ACCUMULATOR VALVE
Richard T. Burnett, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 14, 1945, Serial No. 577,873
12 Claims. (Cl. 137—153)

1. A regulator valve comprising a casing having an inlet and outlet port and having two valve seats of different effective areas, a pressure-responsive member movable from one seat to the other, fluid under pressure urging the pressure responsive device in one direction, a plunger integral with the pressure-responsive member and having an effective area intermediate the areas of the valve seats adapted to be subject at times



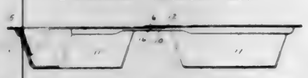
to the direct pressure of the fluid for actuating said integral member and plunger, a resilient member urging the plunger and the pressure-responsive member in a direction opposed to the pressure of the fluid, and means controlled by the position of the plunger for alternately connecting and disconnecting the inlet and outlet ports.

2,531,670
ESCUTCHEON AND ESCUTCHEON FASTENING MEANS
Elmer B. Cain, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1946, Serial No. 719,273
4 Claims. (Cl. 116—124.2)



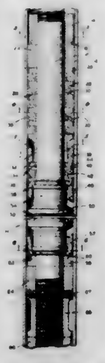
4. An escutcheon for a radio apparatus panel comprising a substantially planar panel engaging part having a circular hole to accommodate control means for the radio apparatus extending through said hole, securing means for securing the substantially planar part to the radio apparatus panel comprising a cylindrical member unitary with the substantially planar part so as to extend inwardly of the panel from the substantially planar part, a U-shaped spring member, a pair of slots extending axially in said cylindrical member from the free end thereof toward said substantially planar part, a pair of notches extending circumferentially from each slot, offset bayonet slots in said cylindrical member extending axially away from the ends of each notch, each leg of said spring member engaging in a pair of the bayonet slots, and projections on each leg of said spring member to serve as stops to limit longitudinal movement of the spring member.

2,531,671
LINER FOR MESS KIT COVERS
Ralph T. Dahl, Portland, Oreg.
Substituted for application Serial No. 583,767, March 20, 1945. This application October 7, 1946, Serial No. 707,585
1 Claim. (Cl. 65—15)



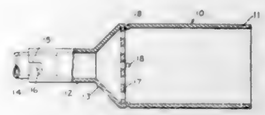
The combination of a mess kit cover having two semi-oval pockets formed therein, the straight sides of said pockets being joined by a flat land and a pair of paper liners for said pockets having laterally extending flanges adapted to overlap upon said land.

2,531,672
PUMP PLUNGER PACKING
Marvin H. Daye, Henderson, Tex.
Application August 8, 1949, Serial No. 109,169
1 Claim. (Cl. 309—4)



A pump plunger adapted for relative upward and downward movement within a barrel comprising an elongated tubular supporting body having a smooth exterior wall, a packing assembly removably mounted on said body comprising a rigid cylindrical ring and an adjacent rigid tubular housing, said ring having an annular packing groove on its outer wall, said housing having an enlarged central portion and oppositely directed top and bottom reduced sleeve portions one of which extends toward said ring, the outer wall of said central portion having an annular packing groove therein, said ring having top and bottom concave ends one of which is presented toward said one of said sleeve portions of said housing, an inside packing cup positioned between said ring and said housing and having a base and an outwardly flaring lip, the base of said inside cup being retained in said one of said concave ends of said ring by said one of said sleeve portions, a pair of outside packing cups each of which has a base and an outwardly flaring lip, one of said outside cups having its base secured in the other of said concave ends of said ring and the other of said outside cups having its base secured on the end of the other of said sleeves, said outside cups being mounted with their lips extending in the same direction opposite to that of the lip of said inside cup, and means on said body acting longitudinally thereof for clamping said ring, housing and packing cups against one another on said body.

2,531,673
APPARATUS FOR DETERMINING THE MOISTURE CONTENT OF VEGETABLE PRODUCTS
Stephen T. Dexter, East Lansing, Mich., assignor to The State Board of Agriculture, East Lansing, Mich., a corporation of Michigan
Application January 2, 1948, Serial No. 164
2 Claims. (Cl. 34—233)

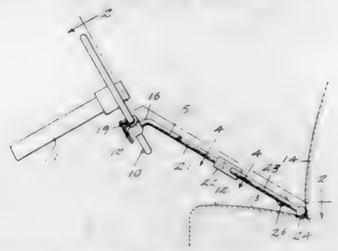


1. A drier for vegetable products comprising coaxial inner and outer tubes, both of said tubes being open at both ends, means on one end of said outer tube for attaching the latter to an exhaust pipe of an internal combustion engine, and a perforated baffle extending transversely of said outer tube intermediate the ends thereof and fixedly held therein.

2,531,674
PUNCHBOARD
Philip S. Doumitt, Portland, Oreg.
Application August 24, 1945, Serial No. 612,398
1 Claim. (Cl. 273—139)

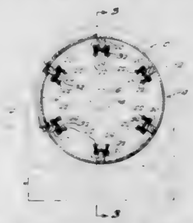
A punchboard holder of the class described having in combination a base having a slot formed in the top side thereof constituting a guide, an ejector plate slidable on said base having a slide attached thereto slidable in said guide, said ejector having a block on top of one end thereof, said ejector having a transverse slot formed therein constituting a pocket for which said base forms a bottom when said ejector is in a retracted position, and said slot extends beyond said base in an ejecting position, an elongated helical spring secured to said base above said slide and normal to said slot and in the path of said block, an alarm mechanism including an alarm circuit having one lead attached to said spring and another lead forming a contact in the plane of said spring and spaced therefrom when said spring is not deflected but engageable therewith when said spring is deflected by said ejector through said block whereby an electric circuit is closed when said ejector is extended and said pocket is beyond the outer edge of said base, and means for holding a punchboard over said ejector so that the punchings will enter said slot when said ejector is in a retracted position and be allowed to escape therefrom over the edge of said base when said ejector is in an ejecting position, thereby closing the circuit through said alarm mechanism.

2,531,675
VEHICLE STEERING WHEEL LOCKING DEVICE
Roy E. Field, Fullerton, Calif.
Application November 14, 1949, Serial No. 127,013
1 Claim. (Cl. 74—495)



A vehicle steering wheel holding means for a vehicle having a steering wheel, a driver's seat, and a driver's seat back; comprising a pair of oppositely curved bars, a pair of wheel gripping clips carried by one of said bars, and extensible connecting means connected between said bars whereby the other of said bars may be wedgingly engaged with the vehicle seat.

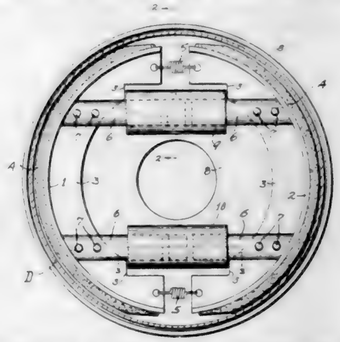
2,531,676
TUMBLING DRUM FOR FUR SOFTENING AND CLEANING MACHINES
Harold S. Friedman, Jackson Heights, N. Y., assignor to Reliable Machine Works, Inc., Brooklyn, N. Y., a corporation of New York
Application November 6, 1948, Serial No. 58,722
7 Claims. (Cl. 69—23)



1. In a fur softening and cleaning machine, a tumbling drum comprising a rotatable hollow body, a plurality of inwardly projecting members therein, and brushes mounted on the side of said members so as to project up thereabove, said brushes aiding in the agitating of the fur to be cleaned.

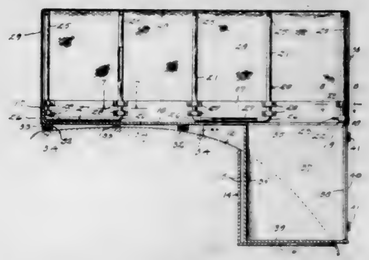
2,531,677
INTERNAL RADIALLY ACTING HYDRAULIC WHEEL BRAKE
Allen L. Gingrich, Spokane, Wash.
Application August 13, 1948, Serial No. 44,119
1 Claim. (Cl. 188—152)

In a hydraulic brake structure, a circular backing plate having an annular lip about the periphery thereof, portions of the backing plate being outwardly offset and forming internal recesses, disposed parallel to each other and located at opposite sides of the center of the backing plate in radially spaced relation thereto, shoes on said backing plate extending circumferentially thereof, cylinders on said backing plate disposed parallel to each other and being each open at opposite ends, tongues extending along side portions of said cylinders and projecting laterally from the cylinders and fitting snugly in the recesses, fasteners passing through walls of the recesses and into the tongues and removably securing the tongues in the recesses, said tongues being formed midway their length with transversely extending bores having inner ends communicating with the cylinders and having their outer end portions



threaded and forming sockets registering with openings formed in the walls of the recesses, hose couplings passing through the openings in the walls of the recesses and screwed into the sockets of the bores, and pistons secured to said shoes and slidably fitting into the cylinders through opposite ends thereof.

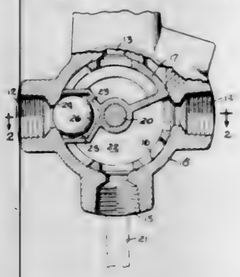
2,531,678
PORTABLE COMPARTMENT AND COLLAPSIBLE FRAME FOR SAME
Edward C. Gledhill, Galion, Ohio
Application February 19, 1948, Serial No. 9,384
2 Claims. (Cl. 135—5)



2. A compartment of the class described comprising a supporting base including a horizontal floor member and upstanding side and end flanges formed thereon, a collapsible frame mounted on said base, said frame including an elongated inflatable member having spaced horizontal portions thereof disposed in alternate relation along the opposite side flanges, clamps secured to said side flanges engaging said inflatable member at the opposite ends of said spaced portions thereof and adapted to bend said ends to an upright position, the portions of the length of said inflatable member between said spaced portions extending transversely of said base in arched position and adapted to be disposed in an upright position when said member is inflated, each of said portions between said spaced portions connecting one end of a spaced horizontal portion on one side of said base with an end of a spaced horizontal portion on the oppo-

site side of said base, and a cover member extending over said frame and having the edges thereof secured to said marginal flanges.

2,531,679
VALVE
Raymond E. Glos, Freeport, Ill.
Application May 20, 1947, Serial No. 749,225
1 Claim. (Cl. 251—102)

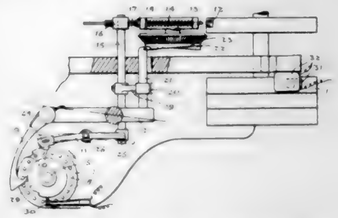


A fluid valve comprising a body having a recess therein with inlet and outlet ports communicating therewith, said outlet port being surrounded by a seat, a member fitting in said recess and movable relative to the body between a position in which said outlet port is covered and a second position in which said inlet and outlet ports are uncovered to establish communication therebetween through said recess, said member having a radially disposed cylindrical cavity therein larger in diameter than said port and said cavity being closed at its inner end and registering at its outer end with said port when said member is in said first-mentioned position, a sphere of resilient material slightly smaller in diameter than said cavity and fitting in the latter so as to act as a piston therein and move outwardly when pressure fluid is admitted to the closed end of the cavity, said sphere being engageable with said seat when said cavity is in register with said port and being adapted to turn freely within the cavity and roll onto and off from said seat when said member is turned to move the cavity out of register with the port, and means providing a passage between said inlet and said cavity continuously admitting pressure fluid into the cavity behind said sphere.

2,531,680
VIBRATOR FOR THE FILLINGS OF TOOTH CAVITIES
Gösta Karl Gustaf Gustafson, Goteborg, Sweden, assignor to Västra Sveriges Dentaldepot, Goteborg, Sweden
Application July 28, 1948, Serial No. 41,127
In Sweden July 9, 1947
7 Claims. (Cl. 32—54)

1. An apparatus for imposing vibratory impacts upon fillings of tooth cavities, comprising a hand-piece, a reciprocable pin constructed and arranged to operate upon fillings of tooth cavities, a pair of members adapted to be forced against each other and rotatable relative to each other about the axis of said reciprocable pin, cooperating cams on said members for reciprocating said pin, one of said members being hollow and secured to said hand-piece, the other of said members having a rod connected thereto, said rod extending through said hollow member and detachably connected with said hand-piece, a drive shaft mounted in said hand-piece, and means transmitting rotary movement from said drive shaft to said rod.

2,531,681
ELECTRIC STOP MOTION FOR DOUBLE FEED MECHANISM ON KNITTING MACHINES
Roscoe Hill, Hamilton, Ontario, Canada, assignor to Scott & Williams, Incorporated, Laconia, N. H.
Application July 14, 1949, Serial No. 104,793
7 Claims. (Cl. 66—157)



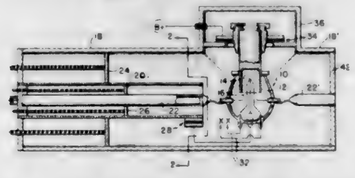
1. In a knitting machine equipped for double feed, the combination with the main control drum, the double feed mechanism including racking wheel and cam operating vertical shaft operated thereby, and mechanism for effecting the racking of said double feed mechanism into and out of feeding relation upon actuation of said control drum, of a notched disc mounted on said cam operating shaft, a stop motion electrical control circuit, a switch included in said control circuit and arranged adjacent said notched disc to be operated thereby upon completion of normal racking of said double feed mechanism, a cam located on said main drum and a second switch included in said stop motion electrical control circuit and arranged adjacent said cam to be actuated thereby coincident with the completion of the normal racking of said double feed mechanism, said switches being connected in series to maintain said stop motion electrical control circuit de-energized while said racking mechanism and control drum remain in synchronism and to energize said electrical control circuit upon said racking mechanism and control drum moving out of synchronism during racking to stop said machine.

2,531,682
MEASURING AND CONTROLLING SYSTEM
Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Original application October 14, 1946, Serial No. 703,146, now Patent No. 2,482,064, dated September 13, 1949. Divided and this application September 22, 1948, Serial No. 50,630
6 Claims. (Cl. 318—28)

1. A system for measuring an unknown electromotive force including, in combination, a source of known electromotive force, means for opposing the unknown E. M. F. to said known E. M. F., a device operative to vary the magnitude of said known E. M. F., means under the control of the differential between said known and unknown E. M. F. to control the operation of said device, a movable core transformer having a primary winding and oppositely wound secondary windings, means operatively connecting said core to said device, means for connecting said primary winding to a source of alternating current, means for connecting said sec-

ondary windings at their remote ends through rectifying means to the opposite ends of a resistance and at their adjacent ends to the mid point of said resistance, and means including a capacitance for connecting said resistance across a portion of said system so as to produce in the latter an E. M. F. opposing the differential between said known and unknown E. M. F.

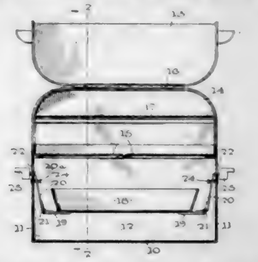
2,531,683
STABILIZED LINE TUNED OSCILLATOR
George C. Izenour, Sea Cliff, N. Y., assignor to the United States of America as represented by the Secretary of the Navy
Application October 31, 1945, Serial No. 625,888
3 Claims. (Cl. 250—36)



1. In a high-frequency oscillation generator which includes an electron discharge tube of the type having an anode, a cathode and a grid coaxially arranged about an axis of symmetry passing through said tube, the combination of a double-coaxial line section having an axis substantially perpendicular to said axis of symmetry of said tube and including outer, inner, and intermediate conductors connected to said anode, grid and cathode, respectively, a coaxial line section substantially axially aligned with said double-coaxial line section and having an outer conductor connected to said anode and an inner conductor connected to said grid, and a cylindrical conductor having an axis in substantial alignment with axis of symmetry of said tube, said cylindrical conductor being connected between the outer conductors of said double-coaxial and coaxial line sections and forming with said outer conductors, a conductive closure for said tube.

2,531,684
PORTABLE BARBECUE
Edwin H. Jackson, Fort Worth, Tex., assignor to The Ranch House, Fort Worth, Tex., a partnership composed of Albert Evans, Jr., and Edwin H. Jackson
Application May 20, 1946, Serial No. 670,963
2 Claims. (Cl. 126—25)

1. In a barbecue comprising a casing having side and end walls housing a grid and a fire pot vertically adjustable with respect to said grid, two opposite walls of the casing having openings therein, supporting bars hinged to opposite ends of the pot within the casing to pivot solely about axes parallel to said ends and projecting upwardly through said openings to the exterior of the casing, heat insulating handles on the opposite ends of the supporting bars for raising and lowering the latter, and studs on



said apertured walls of the casing projecting inwardly toward each other, said bars being formed with locking recesses inclined upwardly from one side for engagement with said studs.

2,531,685
METHOD OF PREPARING SYNTHETIC FILAMENTS FOR WIG MAKING PURPOSES AND FOR MAKING WIGS THEREFROM
Meyer Jacoby, New York, N. Y.
Application December 27, 1949, Serial No. 135,228
2 Claims. (Cl. 132—5)

1. The method of making a wig of nylon and similar synthetic filaments which includes the following steps: dyeing the filaments in long, continuous skeins, cutting said skeins at acute angles to form hanks of filaments of unequal lengths, blending said filaments of unequal lengths, then winding said hanks of blended filaments on a mandrel and temporarily securing said winding, exposing said wound filaments to a steam bath of water and ammonia, then heat-treating the steamed winding at a sufficiently elevated temperature to permanently set a curl in the winding, then removing the winding from the mandrel to obtain a curled tress or lock of simulated hair, then straightening the center portion of each curled tress, securing the center portion of one of said curled tresses to a wig foundation, folding over one end of said tress upon the opposite end and then securing the resulting fold between said ends to said wig foundation, securing the center portion of a second curled tress to the fold of the first tress and also to the wig foundation, folding over one end of said second tress upon the opposite end thereof and then securing the resulting fold between the two ends of the second tress to the fold of the first tress and also to the wig foundation.

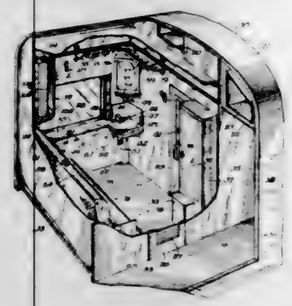
2,531,686
LAMP SOCKET
Hans-Erik Johansson, Lessebo, Sweden
Application December 8, 1947, Serial No. 790,317
In Sweden December 11, 1946
1 Claim. (Cl. 173—362)

A lamp socket device comprising in combination a complete standard lamp socket capable of being independently used, said socket having an external screw thread adjacent one end thereof, an outer socket, said outer socket hav-

ing an internal screw thread portion adjacent one end thereof engaging said external screw thread on said standard socket, an upstanding shoulder formed on said standard socket externally thereof at the end of said socket remote from said external screw thread, the end of said outer socket remote from said threaded portion

abutting said shoulder when said standard and said outer sockets are assembled and limiting axial displacement of said sockets relative to one another, an external screw thread on said outer socket, the direction of the threads of said external screw thread on said outer socket being opposite to that of the threads of said internal screw.

2,531,687
VEHICLE ROOM AND BERTH ARRANGEMENT
Basil E. Jones, Flossmoor, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application October 26, 1945, Serial No. 624,641
9 Claims. (Cl. 105—315)



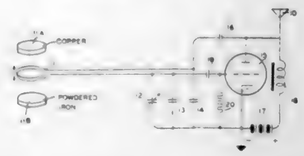
1. In a vehicle having side walls and a partition spaced from one of the side walls defining a longitudinal side aisle, spaced parallel cross partitions extending from the aisle partition to the other side wall defining a room, an entrance door to the room located in the aisle partition, a sofa in the room at one side of the entrance door adjacent one of said cross partitions having a backrest convertible to a bed, a foldable berth above the sofa disposed flush with adjoining wall areas and movable to a position in parallel overlying relationship with said bed, a window in the side wall of the room, a hopper and a washbasin at the other side of the entrance door and window respectively from said sofa adjacent to the other cross partition, standing space between said sofa and said hopper and washbasin, said last-named partition having a communicating door therein, said basin and hopper being disposed at opposite sides of the communicating door adjacent to the side wall and the aisle partition respectively, and a wardrobe in the corner of the room with said hopper and disposed above the level of the hopper, said room being of a width defined substantially by the length of said sofa and of a length substantially equal to twice the width of the sofa.

2,531,688
PREPARATION OF ESTERS OF 7-HALOGENO-CHOLESTEROL
Ewart Ray Herbert Jones, Austin Ernest Bide, and Ralph John Nicholls, London, England, assignors to Glaxo Laboratories Limited, Greenford, Middlesex, England, a British company
No Drawing. Application February 17, 1947, Serial No. 729,192. In Great Britain February 25, 1946
6 Claims. (Cl. 260—397.2)

1. A process for the preparation of 7-halogenocholesteryl esters of carboxylic acids which comprises reacting a mixture of carboxylic acid ester of cholesterol in carbon tetrachloride with a halogenating compound of the general formula

where R^1, R^2 and R^3 are alkyl groups having not more than three carbon atoms and X is selected from the group consisting of chlorine and bromine.

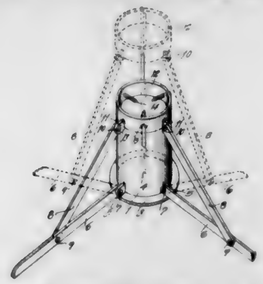
2,531,689
ELECTRICAL TRANSLATING MEANS AND VARIABLE-INDUCTOR TRANSDUCER THEREFOR
Henry P. Kalmus, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Original application June 10, 1943, Serial No. 490,296, now Patent No. 2,473,650, dated June 21, 1949. Divided and this application July 12, 1947, Serial No. 760,676
18 Claims. (Cl. 332—2)



1. In combination in electrical apparatus: an electron discharge device; and a tunable resonant circuit coupled to said electron discharge device and including a variable inductor comprising a first member of relatively high magnetic permeability, a second member having relatively high electrical conductivity, and an inductance coil positioned between said members, means for supporting said members and said coil in such movable relation to each other that a decrease in distance between one of said members and said coil is accompanied by a simultaneous increase in the distance between the other of said members and said coil.

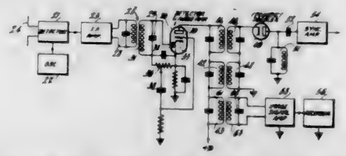
2,531,690
FOLDABLE TREE HOLDER
Willard T. Kennel, Kalispel, Mont.
Application May 8, 1948, Serial No. 25,851
4 Claims. (Cl. 248—46)

1. In a foldable tree-holder the combination with an upright open top container having a set of circumferentially spaced out-spreading legs hinged thereto, and a separate gripping band having a complementary set of ears, and centering lugs on the band adapted to engage over the adjoining open top of the container, of a set of brace-arms pivotally connecting the legs with



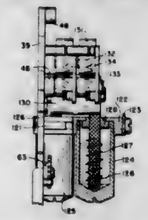
the ears, and fastening means on the band for gripping a tree located in the holder.

2,531,691
SYNCHRONIZING SYSTEM
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1946, Serial No. 673,293
1 Claim. (Cl. 178—69.5)



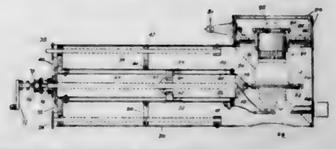
A receiving system including synchronizing means for recording intelligence under control of sync signals, comprising a detector of intelligence signals and sync signals, tuned filters connected in series, means for supplying detected signals to said filters, means to utilize the output of one of said filters for recording intelligence, frequency doubling means, and means for supplying the output of a pair of said filters to said doubling means, and means for employing the output of said doubling means to operate said synchronizing means to synchronize the recording means.

2,531,692
RIBBON INKING DEVICE
Walter J. Kreider, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 10, 1946, Serial No. 682,691
3 Claims. (Cl. 101—202)



1. In an inking device of the character described, having a two-color ink ribbon, means for feeding the ribbon in two directions, spools on which the ribbon is wound, and a ribbon shifting frame for bringing each of the two-colored portions of the ribbon into proper printing position at the proper time, the combination of an insertable slidably mounted ink supply reservoir having separate ink compartments and having a pair of recesses adjacent the top thereof; a pair of supporting members carried by said ribbon shifting frame to engage said pair of recesses in the reservoir upon insertion of the reservoir into its operative position, one of said members having a recess adjacent its free end; a pivoted member carried by said reservoir and adapted to be moved into engagement with the recess in said one supporting member to lock the reservoir in its operative position; a roller mounted on said ribbon shifting frame above said ink compartments; ink transmitting means projecting from each of said ink compartments to contact said roller to apply ink thereto from each of said compartments; and a pair of resiliently operated members mounted on said ribbon shifting frame to press the ribbon against said single roller to cause rotation of said roller by the ribbon during feeding movement of the ribbon in either of its directions to transfer the ink from the ink transmitting means to said roller and thence to the separate colored portions of the ribbon.

2,531,693
LINE-TUNED OSCILLATOR
Paul S. Lansman, Beverly Hills, Calif., assignor to the United States of America as represented by the Secretary of the Navy
Application August 22, 1946, Serial No. 692,361
13 Claims. (Cl. 250—36)



1. High-frequency oscillator apparatus comprising an electron discharge tube having an anode, a cathode and a control grid, resonator means associated with said tube, said resonator means comprising a plurality of nested substantially coaxial members defining at least two space resonant regions capable of maintaining standing high-frequency electromagnetic oscillations therein, one of said regions being connected to said anode and said cathode, another of said regions being connected to said grid and said cathode, said regions being adapted for feedback coupling therebetween, means for exciting said one region, and adjustably positionable output means coupled to said other region.

2,531,694
TANK TRAILER
Louis F. Larsen, Portland, Oreg.
Application April 14, 1947, Serial No. 741,199
2 Claims. (Cl. 214—65)

1. In a tank transporting trailer of the class described the combination of a truck having a universally tiltable table mounted thereon, a front section having a frame mounted on said table said frame having a rearwardly extending foot rigidly connected thereto, means on said truck for controlling the angle of tilt of said

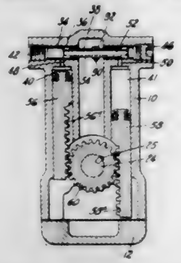
foot, a rear section having a pair of ground-engaging wheels and having a forwardly extending foot tiltably supported by said wheels, each of said feet having a head normal thereto and a cable-winding means for drawing the adjacent ends of said feet together with the heads against the tank ends.

2,531,695

FLUID MOTOR MECHANISM

Stanley I. MacDuff, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application January 31, 1947, Serial No. 728,334
10 Claims. (Cl. 121—165)



1. A fluid motor mechanism comprising a rotatable shaft, a pair of pistons drivably connected to the shaft and disposed one on each side thereof and normal thereto, inlet and exhaust ports, passages for subjecting an end of one of the pistons to inlet port pressure and simultaneously subjecting an end of the other piston to exhaust port pressure to thereby cause rotation of the shaft in one direction, passages for subjecting said end of said one piston to exhaust port pressure and said end of said other piston to inlet port pressure to thereby cause rotation of the shaft in the opposite direction, a valve constituted to control the flow of fluid in the passages, a valve actuating mechanism responsive to shaft rotation for shifting the valve to periodically reverse direction of rotation of the shaft, said valve actuating mechanism including a cam rotatable with the shaft, a latch lever operatively connected to said valve and rotatable relative to the cam about an axis common with the axis of the shaft, a coiled spring interconnecting the cam and the latch lever to rotate the same, and latch means normally engaging the latch lever against rotation and actuable by the cam at a predetermined time to disengage said latch lever whereby the coiled spring imparts rotation thereto to cause the valve to shift.

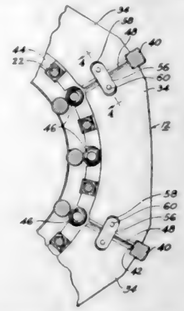
2,531,696

FRICTION DISK

John G. Martin, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 7, 1945, Serial No. 633,407
12 Claims. (Cl. 188—72)

1. A disc brake comprising a lined friction member having less than a full continuous annulus of lining material, a plurality of circumferentially spaced axially extending torque-taking keys, a friction disk adapted to frictionally engage said friction member composed of a plurality of separate segments, spaced sufficiently from one another to permit substantially free individual expansion under the influence of heat, each of said segments having a notch thereacross receiving one of said torque-taking keys to prevent relative rotational movement between the segment and the key while permitting axial movement of the segment along the key, and each of said segments having, extending inwardly from each end thereof, a reduced thickness portion providing a groove at each side of the segment, said reduced thickness portion having a hole therethrough interconnecting the opposed grooves, the grooves at adjacent ends of adjacent segments being substantially in alignment, and means interconnecting the several segments comprising a plurality of pins, each of which extends through a corresponding one of said holes, there being substantial clearance between the outer diameter of each pin and the inner diameter of the respective hole, each end of each pin being reduced in diameter and extending into one of



the aforementioned grooves, and a plurality of pairs of plates interconnecting the pins provided at adjacent ends of adjacent segments to loosely but positively retain the segments in assembled relationship, the plates of each pair being located at opposite sides of the segments to limit lateral movement of said segments relative to one another, each of said plates lying in the aligned grooves of two adjacent segments and having a hole near each end receiving the reduced diameter end portion of the respective pin, said plates having end clearance in the grooves, and the reduced diameter end portions of said pins being riveted to the plates, with the plates resting against the shoulders provided by the larger diameter center portions of the pins to provide a slight clearance between the plates and the reduced thickness portions of the segments.

2,531,697

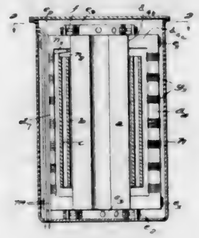
TRANSFORMER

August Meyerhans, Nussbaumen, near Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland

Application August 8, 1947, Serial No. 767,402
In Switzerland November 23, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires November 23, 1959
3 Claims. (Cl. 175—356)

1. In a transformer, a magnetic structure comprising a radially laminated cylindrical core, a plurality of U-shaped laminated yokes surrounding said core with the yoke laminations arranged in planes parallel with the core axis, the two end flange portions of each said yoke confronting said core and being provided with concave end faces the curvature of which is the complement of the convex outer surface of said core so as to lie directly against the core with the core and yoke laminations arranged in substantially radial

alignment, spaced and confronting rigid strips welded respectively to and extending axially outward from the opposite ends of said core and the opposite ends of said yokes, and means extend-



ing between and drawing said confronting core and yoke strips towards one another thereby to draw the end faces of the flange portions of said yokes into pressure contact with the outer surface of said core.

2,531,698

OUTLET BOX WALL AND CABLE CLAMP

Harry E. Petrick and John Lyman Johnson, Cheney, Wash.

Application September 6, 1945, Serial No. 614,776
1 Claim. (Cl. 220—3.6)

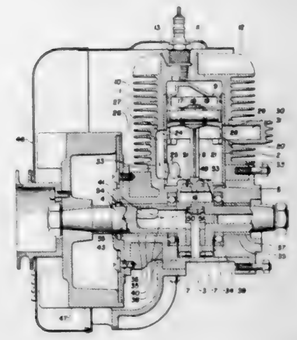
An outlet box open at its outer end and having a bottom and side walls and end walls, outstanding flanges extending laterally from outer ends of said end walls and formed with openings, said end walls being formed with longitudinally extending slots and at their inner ends being formed with cable-receiving openings spaced from inner ends of said slots, cable engaging clips each having a base portion and a tongue extending from its base portion, screws passing through the base portions of said clips and engaged through threaded openings formed in the bottom of said box and tightened to hold the clips in gripping engagement with cables passed through the cable-receiving openings and between the clips and the bottom of the box, the tongues for said clips being spaced from said end walls and terminating in spaced relation to inner ends of said slots, clamps each having an outer clamping plate projecting laterally from an end wall of the box and a strip extending from the outer plate through the slot of the end wall of the box and carrying an inner anchoring plate disposed flat against the said end wall in bridging relation and extending towards the bottom of the box, the inner plates of said clamps being of greater depth than the distance from the slots of the end walls to outer ends of the tongues of said clips whereby the inner plates may be moved into position between the end walls and the tongues and gripped by the said tongues and screws passing through openings in the flanges of the end walls and threaded through openings in the outer plates of the clamps for shifting the clamps towards and away from the flange of the box.

2,531,699

TWO-CYCLE ROTARY VALVE INTERNAL-COMBUSTION ENGINE

William Howard Phelps, Ralston, Nebr.

Application March 27, 1948, Serial No. 17,563
6 Claims. (Cl. 123—73)



4. In a two cycle rotary valve internal combustion engine, a cylinder, a crank case fixed to said cylinder, a piston reciprocally mounted in said cylinder, a crank shaft rotatably mounted in said crank case and having a crank arm and a crank pin, a short connecting rod between said piston and said crank pin, the parts being constructed in accordance with the formula $D_1 \times 1.29 = D_2$, where D_1 equals the cylinder displacement and D_2 equals the crank case displacement.

2,531,700

POLYVINYL ALCOHOL COMPOSITIONS CONTAINING CORROSION INHIBITOR

Charles A. Porter, West Caldwell, N. J., assignor to Resistoflex Corporation, Belleville, N. J., a corporation of New York

Application January 7, 1949, Serial No. 69,847
5 Claims. (Cl. 138—47)

4. A flexible hose assembly consisting of a hose and metal fittings attached to the ends of the hose, said hose comprising a tube of plasticized polyvinyl alcohol in contact with said fittings, the body of said tube containing as a corrosion inhibitor 2-aminothiazole.

2,531,701
TRANSMISSION OPERATING MECHANISM
Harold W. Price, Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application January 13, 1943, Serial No. 472,199. Divided and this application December 12, 1947, Serial No. 791,197
10 Claims. (Cl. 74—745)

1. In an automotive vehicle including two transmission units which cooperate to provide a six speeds forward and two speeds reverse transmission mechanism, means for operating said mechanism including a plurality of cranks connected to the transmission units, two separate manually operable shift levers conveniently mounted adjacent the driver's seat of the vehicle, force transmitting means interconnecting one of said levers with one of said transmission units, force transmitting means interconnecting the other of said levers with said transmission unit, means interlocking said two force transmitting means whereby either one of said levers may be actuated when and only when the remaining lever is established in a certain setting, and other force transmitting means interconnecting one of said two levers with the remaining transmission unit.

2,531,702
SUPPORT FOR ELECTRICAL MACHINES
Royal J. Reek and Franklin O. Wisman, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 19, 1947, Serial No. 787,000
8 Claims. (Cl. 74—207)

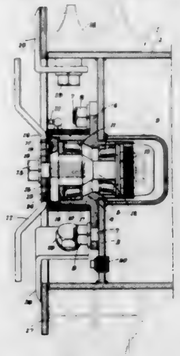
6. A mechanism for positioning a motor or generator in driving relationship with a rotatable member comprising a supporting arm provided with a hub, means for rotatably supporting a motor or generator by said hub, means including an actuating lever carried by said first named means for moving said motor or generator into and out of driving relationship with said rotatable member and for releasably holding said motor or generator out of driving relationship, said supporting arm being formed with a cam thereon and said actuating lever being provided with a latch for engagement with said cam to thereby hold said motor or generator out of driving relationship with said rotatable member, and means remotely located from said actuating lever and operatively connected thereto for positioning said motor or generator.

2,531,703
COMBINED PUSH PLATE AND LETTER DROP FOR FULL-VISION DOORS
Lewis M. Sanders, Chicago, Ill.
Application December 31, 1947, Serial No. 795,039
3 Claims. (Cl. 189—46)

1. A door structure comprising a top rail, a bottom rail, and side rails, said rails being formed of hollow extruded metal welded together at their ends to define a panel aperture, a plate glass panel mounted in said panel aperture, said panel having an opening therein adjacent the medial portion of one of said side rails, a metallic inner frame member, a metallic outer frame member, means to secure adjacent sides of said inner and outer frame members in cantilever fashion to the medial portion of the side rail adjacent said opening and on opposite sides of said panel, said outer frame member being disposed on said side rail to serve as a push plate in opening the door, each of said frame members being formed with an elongated vertically disposed letter slot for registry with the opening in said panel, each of said frame members being provided with a cover plate to close its respective letter slot.

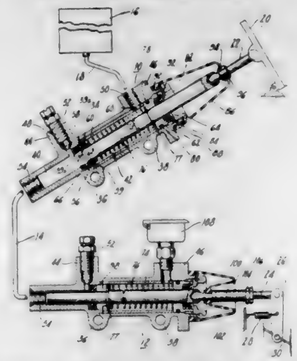
2,531,704
BEARING ASSEMBLY
Theodore G. Schmeiser, Fresno, Calif.
Application November 9, 1948, Serial No. 59,132
2 Claims. (Cl. 308—22)

1. A bearing assembly for a roller which includes a fixed end head provided with a central opening; such assembly comprising a rigid cage, an annular flange about the cage intermediate its ends, one end of the cage projecting through the opening in the head and the flange being fixed to the end head of the roller with the other end of the cage projecting outwardly relative to the end head as an annular neck, a spindle projecting axially through the cage, bearings supporting the cage on the spindle, an annular attachment head on the outer end of the spindle, the outer face of such head normally projecting just beyond the outer edge of the neck, an annular cup disposed around the outer surface of the neck, the latter having a close running fit in the cup, the closed end of the cup disposed in face to face contact with the outer face of the attachment head of the spindle and the inner edge of

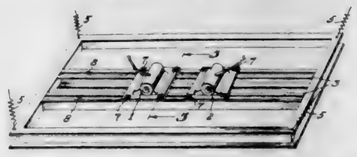


the cup being disposed closely adjacent the outer face of said flange, an attachment bracket, and means securing the bracket, cup and spindle together against relative rotation.

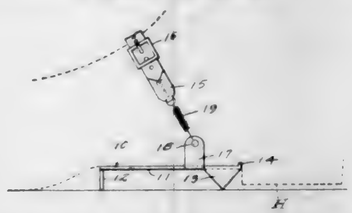
2,531,705
MASTER AND RECEIVER CYLINDER CONSTRUCTION
Harold B. Schultz, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 12, 1947, Serial No. 734,269
2 Claims. (Cl. 60—54.5)



1. A master cylinder adapted for use with a hydraulic system having a receiver cylinder therein all the parts of which are interchangeable with the master cylinder parts but not necessarily having the same relative positions with respect to the corresponding master cylinder parts and comprising a housing with a bore therein, an opening in one end of the bore, an opening in the housing in communication with the other end of the bore, a piston in the bore, said piston having a substantially uniform diameter and provided with means for normally positioning said piston in correspondingly opposite ends of the master and receiver cylinders, a packing ring of U-shaped cross-section located in the bore intermediate the openings for receiving the piston, the packing ring being positioned so that the open end of the U-shaped section faces said opening in said one end of the bore and the closed end of the U-shaped section is toward said other end of the bore, said piston being slidable in the bore and normally retracted to said other end of the bore so that one end of the piston is contiguous the closed end of the U-shaped section to establish communication between the openings, a bushing in the bore encircling the piston and in contact relationship with the closed end of the U-shaped section and constituted to pass fluid, a sleeve in the bore having an opening in registry with the opening in said housing and having an end in engagement with the bushing, means including a bushing in the other end of the bore for holding said first named bushing and said sleeve in assembled relationship, and a second packing ring of U-shaped cross-section encircling said piston and carried by said second named bushing and arranged therein so that the open end of the U-shaped section is in the same direction as the open end of said first named U-shaped section.

2,531,706
VIBRATING DEVICE FOR A DIRECTED VIBRATORY EFFECT BY MEANS OF ROTATABLE VIBRATORY MEMBERS
Ragnar Alrik Olof Signeul, Saltsjo-Duvnas, Sweden, assignor to Vibro-Plus Corporation, Woodside, N. Y., a corporation of Delaware
Application May 25, 1948, Serial No. 29,056
In Sweden August 6, 1946
4 Claims. (Cl. 74—61)

1. A vibrating device for producing directed vibrations which comprises in combination a rigid base, at least two shafts mounted on said base for independent rotation with their axes substantially parallel, means connected to each of said shafts for causing them to describe an oscillatory motion when rotated, means for driving said shafts independently and in opposite directions and resilient means for supporting said base enabling it to oscillate in synchronism with said shafts, whereby synchronism between the two rotating shafts is automatically secured without any driving connections between said shafts resulting in the desired directed vibrations.

2,531,707
ICE CREEPER
Frederick D. Stalford, Walters, Okla.
Application January 25, 1949, Serial No. 72,654
1 Claim. (Cl. 36—62)



A removable anti-slipping device for mounting beneath the shank of a shoe or boot comprising a flat plate of substantially triangular configura-

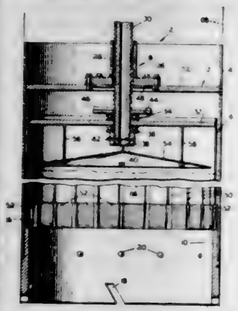
tion, the base line of said plate being rearmost and adapted to abut against the forward end of the heel, an upstanding flange formed along said base line for gripping engagement with the shank portion of the sole of the shoe or boot to prevent longitudinal displacement of the device, a triangular front calk integral with said plate at the apex thereof, a pair of oppositely disposed side calks integral with said plate adjacent the base thereof, a pair of upwardly extending apertured lugs integral with the plate disposed adjacent said side calks, a pair of coil springs each having one end engaged in an aperture in one lug and a strap having an intermediate buckle connecting the opposite ends of said spring.

2,531,708

CORE DRILLING APPARATUS

Frank C. Sturges, Pittsburgh, and Russell B. Strope, Rennerdale, Pa., assignors to Pennsylvania Drilling Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 17, 1949, Serial No. 121,664
5 Claims. (Cl. 255—72)



1. A shot core drilling device comprising in combination a core barrel carrying a drill shoe at its lower end, a wedge ring on the top of said shoe, a contractible, slotted, cylindrical core puller disposed coaxially within the core barrel having wedge dogs on the lower end, a head plate fixed across the upper end of said barrel, an inside threaded tubular member fastened in the center of the head plate coaxially with the barrel, an outside threaded tubular member threaded through said inside threaded member, a support member fixed to the top of the core puller and rotatably connected to said outside threaded member, a key plate fixed to said outside threaded member between said head plate and said support member and a key member fixed upon the bottom side of said head plate for operative engagement with said key plate.

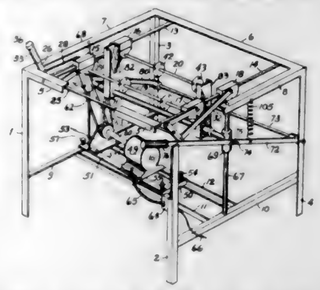
2,531,709

HONEYCOMB UNCAPPING MACHINE

Merritt I. Taylor, Richmond, Va.

Application March 5, 1947, Serial No. 732,409
3 Claims. (Cl. 6—12)

1. A machine for uncapping honey-comb comprising, a frame, a pair of horizontally spaced parallel rods fixed in said frame, two bearing slides mounted on each rod for translation therealong, each slide on one rod forming a pair with a corresponding slide upon the other rod, a cutting rotor journaled in each said pair of slides, on horizontally spaced axes, means operable to move each said pairs of slides equally and oppositely toward and from each other in a horizontal direction, a comb frame holder, and means guiding and translating said holder vertically between said rotors, said first-named means comprising a shaft journaled in said frame parallel with said rotors, first and second double-armed levers fixed in spaced parallel relation on said shaft, each lever being approximately in the same vertical plane with a respective one of said rods, a first pair of links, each pivoted at one end to a lever



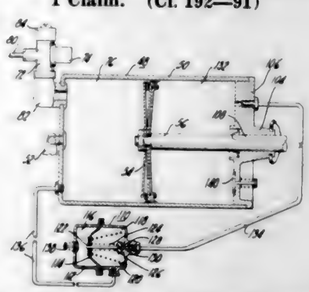
at one side of said shaft and at the other end to a respective bearing slide, and a second pair of links each pivoted at one end to a lever on the other side of said shaft and at its other end to a respective bearing slide, whereby pivoting of said shaft in one direction moves the rotors toward each other and pivoting of said shaft in the opposite direction moves the rotors away from each other while continuously maintaining them in parallelism.

2,531,710

CLUTCH CONTROL MECHANISM

Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 4, 1944, Serial No. 561,844
1 Claim. (Cl. 192—91)



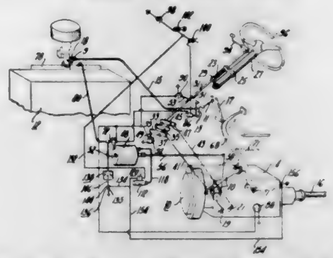
In an automotive vehicle provided with a centrifugal and spring operated friction clutch, power means for controlling the operation of said clutch including a pressure differential operated motor having two control chambers therein, valvular means for controlling the operation of said motor comprising a three-way valve operable in part to effect the clutch disengaging operation of the motor, a first stage valve and a second stage valve, power means for controlling the operation of the second stage valve including a pressure differential operated motor which includes a double-ended casing and a power element having an opening in its center, a fluid transmitting conduit interconnecting one chamber of the latter motor with one chamber of the first mentioned motor and another fluid transmitting conduit interconnecting the aforementioned chamber of the second mentioned motor with the other chamber of the first mentioned motor.

2,531,711

CLUTCH CONTROL MECHANISM

Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 27, 1944, Serial No. 565,202
7 Claims. (Cl. 192—.075)



1. In an automotive vehicle provided with an internal combustion engine comprising an intake manifold, a combined centrifugal and spring operated clutch, a vehicle speed responsive governor and an accelerator; power means, including a two-stage pressure differential operated motor, for effecting the disabling of both the centrifugally operated and spring means of said clutch to thereby disengage the clutch and for controlling the clutch engaging operation of the spring means of the clutch, valve means for controlling the operation of said motor comprising a three-way valve, a first stage valve, and a second stage valve, and means for controlling the operation of the valve means including a grounded manifold vacuum operated switch for controlling the operation of the second stage valve, an accelerator operated switch, and a grounded governor operated switch connected in series with the accelerator operated switch, for controlling the operation of the three-way valve, the parts of the mechanism being so constructed and arranged and so operative that the three-way valve is rendered operative to effect a clutch disengaging operation of the motor during the last increment of releasing movement of the accelerator and is rendered operative, during the first increment of depression of the accelerator, to initiate the clutch engaging operation of said motor, the parts being also so constructed and arranged and so operative that the second stage valve is rendered operative, to initiate the second stage of clutch engaging operation of the motor, when the gaseous pressure within the intake manifold reaches a certain critical factor, said operation effecting a closure of the manifold vacuum operated switch.

2,531,712

PREPARATION OF CRYSTALLINE SALTS OF RIBOFLAVIN

Max Tishler, Rahway, N. J., and John W. Wellman, Pittsfield, Mass., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 17, 1945, Serial No. 605,628
5 Claims. (Cl. 260—211.3)

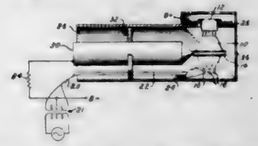
1. A process for preparing a compound selected from the group consisting of the alkali metal salts of riboflavin and the alkaline earth metal salts of riboflavin that comprises the following steps: (1) treating riboflavin with a substantially anhydrous lower aliphatic alcohol solution of a compound selected from the class consisting of alkali metal alcoholates and alkaline earth metal alcoholates to form a salt of riboflavin; and (2) crystallizing and separating the riboflavin salt.

2,531,713

LINE-TUNED OSCILLATOR

Orrin W. Towner, Anchorage, Ky., assignor to the United States of America as represented by the Secretary of the Navy

Application November 5, 1945, Serial No. 626,847
10 Claims. (Cl. 250—36)



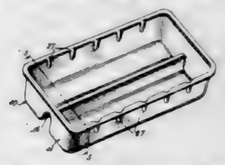
1. The combination of a coaxial tuning line, and a vacuum tube disposed within said line and arranged with the longitudinal axis of symmetry of said tube perpendicular to that of said line, said axes being coplanarly disposed.

2,531,714

ICE TRAY

Gustav J. van Lennep, Washington, D. C.

Application June 14, 1946, Serial No. 676,822
6 Claims. (Cl. 62—108.5)



1. An ice cube tray structure comprising, in combination: a tray body; a removable grid fitting in said body and comprising at least one longitudinal rib member rising to a level above the margins of the tray side walls; and partition members extending transversely from said rib member with their upper edges substantially registering with the upper edge of said rib member and sloping downwardly therefrom to a level closely adjacent to the level of the said margins the upper edges of said partition members being freely exposed throughout for contact with defrosting fluid.

2,531,715

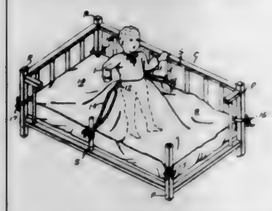
MANUFACTURE OF ANIMAL GLUE JELLIES

Thomas Aubrey White, Jackson Heights, N. Y., assignor to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 28, 1948, Serial No. 23,860
4 Claims. (Cl. 106—126)

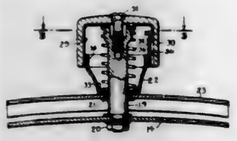
1. An animal glue composition comprising animal glue, a reducing sugar acting as a plasticizing medium and a selected ammonium compound the ammonium radical of which acts to reduce or inhibit the resinification of the glue composition, the ammonium compound being selected from the group consisting of ammonium chloride, ammonium nitrate, ammonium thiocyanate and ammonium lactate, the said ammonium compound being in the proportion of from a fraction of 1% to 20% by weight of the dry animal glue in the composition.

2,531,716
INFANT'S GARMENT
Marietta T. Wolf, Willow Grove, Pa.
Application January 29, 1946, Serial No. 644,036
3 Claims. (Cl. 128—134)



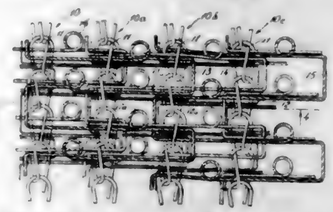
1. An infant's garment comprising a jacket portion conforming generally to the part of the infant's body above the waist and terminating in a waist portion, and a skirt portion consisting of a rectangular blank of a width greater than that of said waist portion, said blank being folded on a line intermediate its length to form a front panel and a rear panel and being provided on said line of fold with a slit of a length substantially equal to the width of said waist portion, the lower peripheral edge of said jacket portion being secured to the peripheral edge of said slit, the lateral edges of said front and rear panels being unconnected to each other.

2,531,717
PRESSURE COOKER
Myron J. Zimmer, Wood Dale, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application June 11, 1945, Serial No. 598,725
8 Claims. (Cl. 220—25)



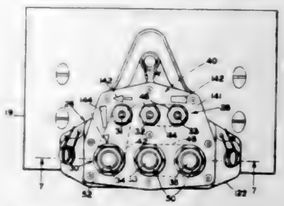
1. In a pressure cooker comprising a receptacle having an elliptical top opening and a cover with the cover engageable with the underside of the margin of said opening and movable therethrough when tilted and rotated 90 out of alignment with the opening, means for effecting rotation of the cover into alignment with the opening and movement thereof upwardly into sealing engagement with said margin, said means comprising a vertical stem fixed for rotation with and projecting from the cover, a bridge member adapted to rest on the receptacle and rotatably and slidably supporting said stem, a locking element fixed to said bridge member, a manually rotatable element connected to said stem for rotating said cover relative to said bridge member and movable by rotation in one direction into locking engagement with said locking element to hold the cover in a remote position from said bridge member and by rotation in the opposite direction out of such locking engagement to free the cover for movement toward said bridge member, and spring means urging said cover toward said bridge member and into engagement with the margin of said opening when said rotatable element is out of locking engagement with said locking element.

2,531,718
KNITTED PILE FABRIC
Walter A. Rice, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application December 22, 1949, Serial No. 134,511
3 Claims. (Cl. 66—191)



1. A knitted pile fabric which comprises a plurality of spaced parallel warp chains, each made up of a series of chain stitches with the stitches of the several chains lying transversely aligned in courses, a plurality of weft threads, each thread being of regular sinuous form with successive stretches thereof passing in successive courses through chain stitches of a plurality of adjacent warp chains, each thread tightly engaging a chain stitch at each point of reversal of the thread and each warp chain being connected to chains on either side thereof by a plurality of weft threads in each course, and a plurality of heavy pile yarns, each yarn being of regular sinuous form with successive stretches thereof passing in successive courses through chain stitches of at least three adjacent warp chains and tightly engaging a stitch at each point of reversal of the yarn, each warp chain being connected to chains on either side thereof by at least two pile yarns in each course and each yarn having a single portion in each stretch thereof raised out of the fabric between a pair of adjacent warp chains to form a pile element, the remainder of each yarn in each stretch being embedded in the body of the fabric, the pile elements lying in longitudinal rows with successive elements in each row formed of different yarns.

2,531,719
DIRECTION DETERMINING AND REVERSE OPERATING MEANS
Alphonse V. Alvino, Newark, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 14, 1947, Serial No. 728,490
2 Claims. (Cl. 318—296)

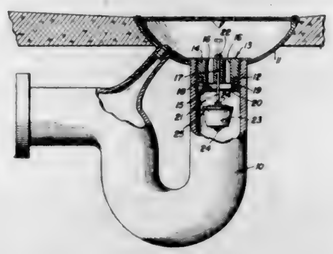


1. In a motor circuit terminal supporting insulating panel adapted to be mounted on a motor and having two rows of three terminals each severally projecting from the panel, two of the end terminals of one of which rows are each adapted to selectively receive a battery terminal, an apertured insulating terminal plate having embedded therein three jumpers, one of which has plate aperture registering openings fitting corresponding end terminals of said rows and the others of which each has similar openings fitting the other two elements of the respective rows, said plate being selectively reverse sidedly positionable on said panel with the jumper openings fitting the panel terminals and the battery terminal correspondingly connected to one of said end terminals of said one row to change the motor circuit from a condition under which the rotor rotates in one direction to a condition under which the rotor rotates in the opposite direction, and means for securing said plate to the panel and said jumpers and battery terminal to the panel terminals in each selected position of said plate.

2,531,720
CHROMIUM STAINLESS STEELS
Mary Baeyertz, Chicago, Ill., and Willard M. Lindsey, Rumford, R. I., assignors to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Application June 21, 1946, Serial No. 678,361
1 Claim. (Cl. 75—130.5)

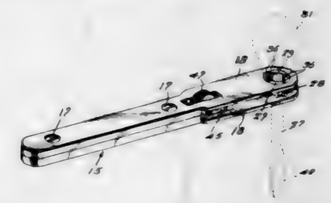
The method of producing forged articles composed of 11 to 12.5% chromium steel free from surface discontinuities comprising adding between .003 and .05% boron to straight chromium steel containing between 11 and 12.5% chromium and 0.8 to .11% carbon, said boron addition being regulated to prevent the formation of surface discontinuities on said steel resulting from acid pickling to remove scale resulting from heating to forging temperatures, forging articles from blanks of said steel, said forging comprising repeatedly heating said blanks to forging temperature, forging at said temperature, cooling and acid pickling the same intermediate each heating to remove the scale formed by heating to forging temperature.

2,531,721
DRAIN ATTACHMENT
Emral Brock, Springfield, Mo.
Application October 15, 1947, Serial No. 779,937
1 Claim. (Cl. 137—104)



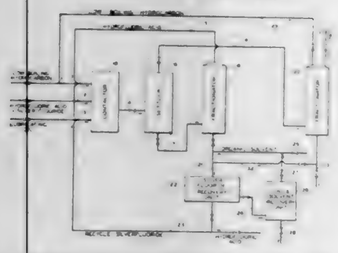
A drain attachment comprising a circular cylindrical externally screw-threaded body adapted to be threaded into the upper end of a drain trap, an annular skirt of reduced diameter projecting longitudinally from one end of the body said skirt having an axial chamber opening through its end remote from the body, said body having an axial opening extending therethrough and opening into the chamber, said body also having an annular row of circumferentially spaced openings extending therethrough and communicating with the chamber, an elongated valve guide slidable through the axial opening and having a length greater than the combined length of said body and skirt, a head on the end of the guide remote from the chamber, an inverted frusto-conical float carried by the end of the guide opposite the head and a valve cushion on the end of the float adjacent the body for engaging the end of the skirt remote from the body and closing the open end of the chamber when the float is advanced toward the body, said float and cushion being separate and coaxial, coaxial centrally apertured disks on said guide, said guide having a threaded portion, and threaded elements on said threaded portion holding two of said disks in engagement with opposite end faces of said float and cushion, another of said disks being clamped between adjacent end faces of the float and cushion and reinforcing the float and cushion against breakage, the disk on the side of the cushion adjacent the skirt having a diameter less than the internal diameter of the skirt.

2,531,722
REVERSIBLE RATCHET SCREW DRIVER
Edwin D. Brubeck, Indianapolis, Ind.
Application November 19, 1946, Serial No. 710,879
1 Claim. (Cl. 145—72)



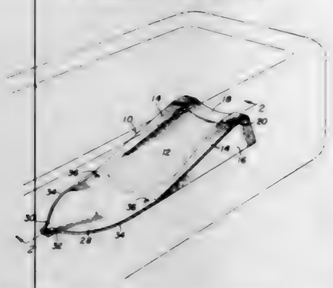
A ratchet screw driver comprising a handle including opposed members secured together and having opposed recessed inner faces forming a longitudinal central recess in one end, each of said members having a pair of spaced apertures, each aperture in one member being aligned with one of the apertures in the other member with one of said pair of aligned apertures being located adjacent the inner end of the recess and the other pair of aligned apertures being located adjacent the outer end of the recess, a ratchet wheel rotatably positioned in said recess and having bearing portions rotatably engaged in the apertures at the outer end of said recess, said ratchet wheel having a star-shaped opening, a blade having an end portion provided to fit said opening and a flange to engage the bottom of the handle for rotation with the ratchet wheel, said end portion of the blade having a bore in the top, a handle piece having a shank rotatably engaged in the bore, a pawl pivotally mounted in said recess and having diverging portions to selectively engage the ratchet wheel in reversed directions of rotation of the ratchet wheel, a spring strip mounted in the pawl and extending to the inner portion of the recess, a U-shaped notched member slidably mounted at the inner end of the recess and receiving the inner end of the spring strip, a screw carried by the legs of said U-shaped member, a nut mounted in the apertures in the inner end of said recess and threaded on the screw to shift the U-shaped member in opposite directions for oscillating the pawl to reverse the action thereof in connection with the ratchet wheel, and said nut slidably engaging the sides of the apertures in the inner end of said recess whereby said nut is held against lateral movement relative to said handle.

2,531,723
PROCESS OF IMPROVING LUBRICATING OILS BY TREATING WITH HYDROFLUORIC ACID AND SILVER FLUORIDE
Paul H. Carnell, Alma, Mich., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 15, 1947, Serial No. 791,803
5 Claims. (Cl. 196—39)



1. A process for improving the viscosity index of a lubricating oil which comprises treating a lubricating oil with a reagent consisting of a mixture of substantially anhydrous hydrofluoric acid and silver fluoride.

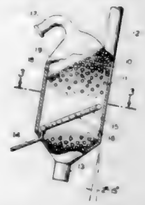
2,531,724
INFANT BATH MAT
Edmund D. Cevasco, Akron, Ohio
Application September 20, 1948, Serial No. 50,027
3 Claims. (Cl. 4—185)



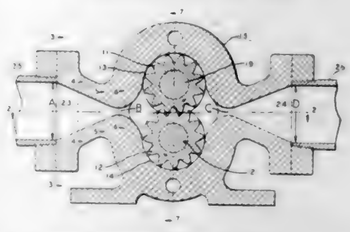
1. An infant bath mat comprising an upwardly inclined torso supporting member of flexible waterproof material, an integral depending side wall at each side edge of the member, an integral depending end wall joining the member and the side walls to form an open bottomed chamber beneath the member and the end wall having a port extending therethrough through which water may flow into and out of the chamber as the position of an infant supported on the member is changed.

2,531,725
PEBBLE HEATER PROCESS
J. Frank Church, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 5, 1948, Serial No. 592
4 Claims. (Cl. 196—55)

1. In a process for heating a gas comprising continuously passing a contiguous mass of hot pebbles downwardly through a cylindrical zone having a ratio of height to diameter of at least 1.5 in contact with a stream of gas to be heated, wherein said pebbles are introduced to said zone eccentrically thereto and are withdrawn concentrically therewith, thereby effecting more rapid pebble flow from the point of introduction directly to the point of withdrawal of said pebbles than through other sections of said zone, the improvement comprising passing said mass of pebbles through said cylindrical zone so that the elements of said zone are inclined toward the point of introduction of pebbles at an angle of between about 2° and 15° from the vertical so as to improve pebble flow characteristics in said zone.

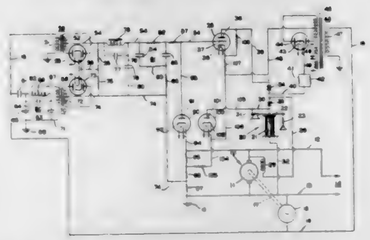


2,531,726
POSITIVE DISPLACEMENT ROTARY PUMP
Augustus C. Durdin, III, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application January 26, 1946, Serial No. 643,549
3 Claims. (Cl. 103—126)



1. A positive displacement rotary pump comprising a casing having a pump chamber, a rotary pumping element in said chamber rotating about an assumed horizontal axis at a preselected speed, and suction and discharge passages communicating with said chamber, the suction passage having a large inlet opening of predetermined cross section area with relation to the cross section area of its outlet opening, said passage converging and diverging in a vertical plane in Venturi shape and diverging in a horizontal plane and terminating in a narrow outlet opening in communication with the pump chamber and through which liquid enters the pump chamber, said vertical and horizontal planes being with respect to said horizontal axis, said outlet opening being elongated in a horizontal plane, the discharge passage duplicating the shape of the suction passage including openings of the same dimensions as the openings in the suction passage but reversed so that the liquid is discharged from the pump chamber through the narrow opening and leaves the discharge passage through its large opening, said suction passage shaped to uniformly accelerate the flow of liquid to the pumping member by graduating the cross section area progressively from the inlet to the outlet of the passage so that the velocity of the liquid entering the pump chamber is substantially equal to the peripheral velocity of the pumping member, and the discharge passage shaped similarly to the suction passage but reversed to uniformly decelerate the flow from the pump chamber to its outlet opening so that the velocity of the liquid at the outlet opening of the discharge passage is the same as at the inlet opening of the suction passage.

2,531,727
FREQUENCY VOLTAGE REGULATOR
John F. Emerson, Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 30, 1947, Serial No. 783,008
8 Claims. (Cl. 322—24)

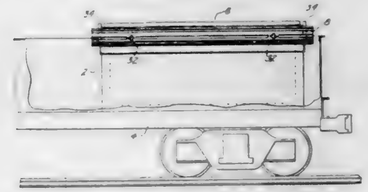


1. A control system comprising a direct current motor, an alternating current generator driven by said motor, a carbon pile resistor in the field circuit of said motor, a resiliently biased armature for said resistor for maintaining the ohmic value of said pile at a minimum, electromagnetic means for increasing the ohmic value of the resistor upon energization thereof, a vacuum tube for controlling the energization of said electromagnetic means, a frequency sensitive circuit for said generator including resonant and anti-resonant circuits to provide a signal voltage responsive to the frequency and amplitude of the generated voltage, a circuit to provide a signal voltage proportional to the generated voltage and circuit means including a filter circuit for applying the rectified signal voltages to the input of said tube to control the energization of said electromagnetic means.

2,531,728
SHAPING TOOL
Mary D. Gersh, San Francisco, Calif.
Application December 27, 1947, Serial No. 794,190
2 Claims. (Cl. 153—38)

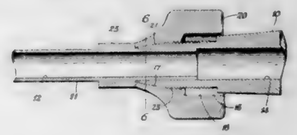
1. A shaping tool of the character described, comprising a beam having hooks at opposite ends and having a transverse hole therein, a sleeve slidable on the beam and having opposing holes adapted for registering with the beam hole, a threaded member adapted for passing through the holes and having threaded engagement with the sleeve at one of the holes, one end of the threaded member having a reduced extension with an annular groove therein and a split elastic ring in said groove normally projecting beyond the periphery of the extension, and a pressure member having a hole fitting over the extension, the margin of the hole being operable for compressing the ring when moved along the extension to pass the ring and for anchoring behind the ring when the latter re-expands.

2,531,729
COOLING BOX AND COVER THEREFOR
Edwin H. Gott, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application November 5, 1946, Serial No. 707,960
10 Claims. (Cl. 263—49)



1. A cooling box of substantially rectangular horizontal section having one set of similar opposite upwardly convex arcuate upper edges, the other set of opposite edges lying substantially in a plane through the ends of the arcuate edges, a removable flexible cover for the box adapted to rest upon the upper edges of the box, said cover comprising a series of parallel elongated members each hingedly connected to its neighbor or neighbors so as to allow a limited amount of angular movement therebetween in a plane transverse to the length of the elongated members, the cover thus closing the box when the cover is positioned thereon with the elongated members lying upon and transverse to the arcuate edges.

2,531,730
SURGICAL ASPIRATOR
Stanford A. Henderson, Buffalo, N. Y., assignor to Gomco Surgical Manufacturing Corp., Buffalo, N. Y., a corporation of New York
Application September 1, 1948, Serial No. 47,180
4 Claims. (Cl. 128—276)

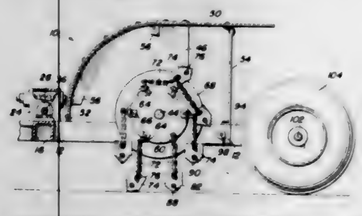


1. A surgical aspirator, comprising a handle having a neck projecting therefrom and a passage extending axially through said neck, said handle being adapted to connect said passage to a source of vacuum, the outer end of said neck being externally tapered, a portion of said neck adjacent said tapered end being externally threaded, a nut arranged on said neck and having a through opening one portion of which is internally threaded to work on said externally threaded portion and an adjacent portion of which is tapered and engageable with said tapered end, and a tip tubular in cross-section partially arranged in said passage and slidable therein, said neck being slit so as to render said neck radially contractable whereby said neck is clamped against said tip when said nut is moved axially of said neck to wedge said tapered portion against said tapered end.

2,531,731
RAZOR BLADE STOCK
Edward N. Hibbert, Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
No Drawing. Original application November 29, 1946, Serial No. 713,098. Divided and this application March 24, 1948, Serial No. 16,883
3 Claims. (Cl. 148—31)

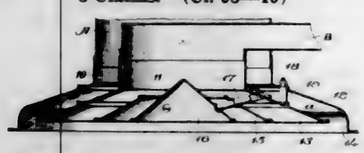
1. As an article of manufacture, razor blade stock consisting of a steel strip formed of recarburized rimmed steel and having a carbon content of at least 1.00% throughout its thickness.

2,531,732
CORNSTALK PULVERIZER
Oswald A. Hoffman, Decatur, Ind.
Application September 9, 1949, Serial No. 114,889
1 Claim. (Cl. 55—118)



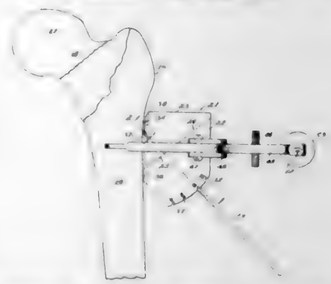
A cornstalk pulverizer comprising a frame, a shaft journaled to said frame, a plurality of spaced disks attached to said shaft, a plurality of annularly spaced cross-bars secured to said disks, a plurality of chains secured to said cross-bars, hammers having a plurality of cutting edges thereon secured to said chains, and rods positioned between pairs of hammers, and each rod being secured to a pair of hammers, each of said hammers having a body portion, a series of offset portions extending from said body portion and forming said plurality of cutting edges, a plurality of apertures in said body portion, said chains being secured to said body portion through one of said apertures, the other aperture being adapted to receive a cross rod connecting said hammer with another hammer.

2,531,733
AIR OUTLET DEVICE
Friedrich Honerkamp, New York, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application August 8, 1945, Serial No. 609,515
3 Claims. (Cl. 98—40)



1. Air outlet means comprising two separate air supply ducts to be used, one for the supply of air of one kind and the other for the supply of air of a different kind, the outlet end portion of one of said ducts being disposed within the outlet end portion of the other of said ducts, a pair of members connected to the outlet end portions of said ducts, respectively, and extending laterally therefrom in spaced apart relationship to each other to provide therebetween an air outlet passageway leading laterally from the outer of said ducts, means to cause air delivered from the outer duct through said passageway to be directed forwardly from said passageway, and means to cause air delivered from the inner duct to be deflected laterally outward therefrom.

2,531,734
HIP NAIL AIMING DEVICE
Heywood H. Hopkins, Rochester, N. Y.
Application July 27, 1945, Serial No. 607,471
7 Claims. (Cl. 128—83)



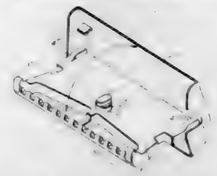
1. Apparatus of the character described comprising, in combination, a nail aiming fixture, means for positioning the fixture adjacent a bone as required by the location of the particular fracture being treated, said fixture having a plurality of openings extending therethrough, a locating element, each of said openings having an entrance end for the locating element and an exit end therefor, said exit ends terminating in a common point within the fixture and external of the bone and the openings diverging therefrom in more than one plane toward the entrance end.

5. In the locating of the position which a hip fixation nail should occupy to retain the parts of a femur fracture together while they unite or heal, the method which comprises positioning a direction locator with the direction locator being located on the femur bone with all its parts externally of the bone in its entirety and at the approximate point which the nail should enter, X-raying the fractured bone and the direction locator in two planes which are angularly disposed with respect to each other while retaining the direction locator in a fixed position, and determining from said X-rays the angle at which the nail should enter the bone in order to be positioned with respect to the fracture as desired by the surgeon to secure maximum holding power.

2,531,735
COVER FOR UMBRELLAS OR THE LIKE
Hal R. Jones, Akron, Ohio
Application October 2, 1946, Serial No. 700,612
4 Claims. (Cl. 135—34)

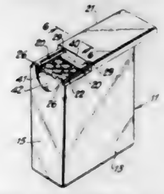
1. An umbrella cover, comprising a body of thin, water-repellent material, said body having a multiplicity of relatively narrow pockets in closely spaced side-by-side relation around the outer marginal portion of the body, the mouths of said pockets opening inwardly of the marginal edge of the body and connecting portions between said mouths of immediately adjacent pockets being substantially narrower than the mouths, whereby said body may be applied to an umbrella structure having substantially any number of spaced stays, with the ends of the stays received in correspondingly spaced pockets of the body.

2,531,736
SAFETY RAZOR FOR SINGLE EDGE BLADES
Joseph Richard Lynch, Boston, Mass.
Application January 30, 1946, Serial No. 644,204
2 Claims. (Cl. 30—58)



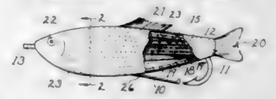
1. In a pivoted cap razor having a rectangular blade seat with a guard formed at the forward edge, a centrally located blade aligning lug on said seat and blade stops at the forward corners of said seat; blade elevation means comprising support lugs formed at the rear corners of said seat, shoulders formed on the blade stops above the razor seat and a shoulder formed on said blade aligning lug, the shoulders and support lugs being in the approximate same plane above the razor seat, whereby a blade placed on said seat would be supported above the rectangular seat.

2,531,737
CONTAINER HAVING SPRING BIASED SLIDING CLOSURE
Joe M. Lyon, Jr., Los Angeles, Calif., assignor, by mesne assignments, to William E. Wilson, Inglewood, Calif.
Application July 11, 1947, Serial No. 760,310
3 Claims. (Cl. 220—41)



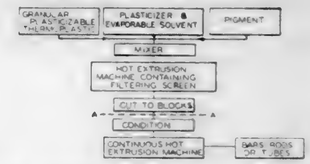
3. A container comprising a rectangular case open at one end, parallel ways extending along two opposite side edges of said open end, a lid having a pair of laterally spaced grooves provided in the underside thereof to receive said ways, said lid being slidable on said ways between a closed position entirely covering said open end, and an open position partially exposing said open end, a pair of compression springs disposed within said grooves, each of said springs bearing at one end against the end of its respective groove, and at the other end against the end of said way, a recess formed in one end wall of said case adjacent the edge of said lid, a catch projecting downwardly from the underside of said lid and engageable with a lip on said one end wall of the case for releasably holding said lid in said closed position against the pressure of said springs, said catch being yieldable to release said lid when pressure is applied to the latter in the direction to open the same, a limit stop lug spaced longitudinally from said catch and projecting downwardly from the underside of said lid, said lug being engageable with a lip on the other end wall of said case to stop said lid at said open position.

2,531,738
ARTIFICIAL LURE
James M. Marsico, Creekside, Pa.
Application November 15, 1949, Serial No. 127,341
3 Claims. (Cl. 43—42.37)



1. A fish lure comprising a hook, a sheathing of thread wound tightly around the shank of the hook, a filler of hair around the sheathed shank and adhesively united with the sheathing, said hair filler being shaped to conform to the shape of the body of a fish, a filler of cotton around the hair filler and adhesively secured thereto, an outer skin of feathers adhesively secured to the cotton filler, said feathers having portions thereof projecting to form a top fin and a tail fin respectively, and a transparent protective coating over the outer surface of the skin-forming feathers.

2,531,739
PROCESS FOR PREPARING THERMOPLASTIC MATERIAL
Camillo D. Orsini, Highland Park, N. J., assignor to Nixon Nitration Works, Nixon, N. J., a corporation of New Jersey
Application February 8, 1946, Serial No. 646,469
2 Claims. (Cl. 18—51)



1. The process of forming thermoplastic plasticized strips comprising the steps of mixing the unplasticized thermoplastic material with a suitable plasticizer and evaporable solvent under reduced pressure in a mixer provided with agitating blades until the thermoplastic and other materials are in a workable mass suitable for being extruded, feeding the mixed mass directly from the mixer to a heated screw stuffer type extrusion machine containing a filter, extruding and filtering the mixed mass in a heated condition for homogenizing said mixed mass and forming it into a strip, and subdividing the extruded strip into suitable lengths.

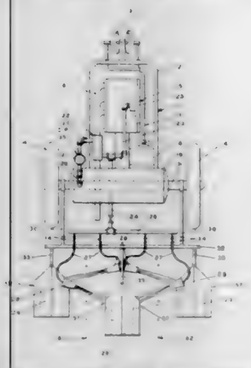
2,531,740
BRAKE OPERATING OR SIMILAR MECHANISM
Albert Orscheln, Moberly, Mo., assignor of thirty-five one-hundredths to William C. Orscheln, Moberly, Mo., thirty-five one-hundredths to Edward J. Orscheln, Columbia, Mo., ten one-hundredths to Theodore B. Orscheln, Granite City, Ill., and ten one-hundredths to Aloysius G. Orscheln, Kansas City, Mo.
Application December 27, 1948, Serial No. 67,499
8 Claims. (Cl. 74—491)

1. An apparatus of the character described having in combination a supporting plate posi-

tioned vertically beneath the instrument panel of a motor vehicle and extending in a forward and rearward direction, said plate having in its forward portion a longitudinally extending slot, a slide movable in said slot, a push link connected at one of its ends to said slide on one side of said plate, a hand lever pivoted at its upper end to said one side of said plate and positioned to the rear of said slot, a pivotal connection between the other end of said push link and an intermediate portion of said lever, a brake

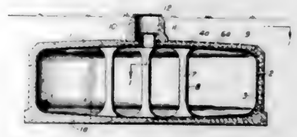
actuating element slidably mounted on the other side of said plate and connected to the other end of said slide, the relation of said push link and said slide with the lever fulcrum being such that when the lever is swung upwardly to brake-applied position the pivotal connection of said link to said lever will move from one side of said lever fulcrum to the opposite side thereof causing said lever to remain in said brake-applied position until forced therefrom, and stop means for limiting the extent which said lever may move in brake applying direction.

2,531,741
APPARATUS FOR FLAME CULTIVATION
Alvin W. Peck, Springdale, Ark., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 8, 1946, Serial No. 660,579
4 Claims. (Cl. 47—1)



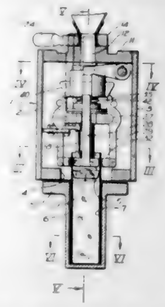
1. In a flame cultivator assembly adapted to burn a liquefied petroleum gas to produce flames for killing weed growth in and around crop rows, the improvement comprising in combination a cultivator body, a means supported by said body for storage of the liquefied petroleum gas fuel, a plurality of burners supported by said body and so disposed as to direct flames through said crop rows, a conduit means connecting said storage means and said burners, means in said conduit means for reducing pressure in said liquefied petroleum gas, means in said conduit means for evaporating said liquefied petroleum gas for burning in said burners, and hoods supported by said body and adapted to be positioned between pairs of adjacent crop rows to receive flames from burners disposed outside said adjacent crop rows and so positioned as to direct said flames across said adjacent crop rows to a point under said hood.

2,531,742
UNDERGROUND STORAGE TANK
Edmund S. Pomykala, United States Navy
Application April 23, 1945, Serial No. 589,923
6 Claims. (Cl. 72—14)



1. A structural frame for a storage tank comprising a thin metal container, a layer of crossed metallic rods welded to the outer surface of the container, a secondary layer of crossed rods spaced outwardly from the first layer, and connecting rods welded to said surface at points substantially in the center of the areas defined by the first mentioned crossed rods, and to the secondary layer adjacent points at which the rods of the secondary layer cross each other.

2,531,743
METHOD OF FILLING FLEXIBLE CONTAINERS WITH FINELY DIVIDED MATERIALS AND MACHINE THEREFOR
Don Ray, Beverly Hills, Calif.
Application September 14, 1945, Serial No. 616,298
9 Claims. (Cl. 226—59)



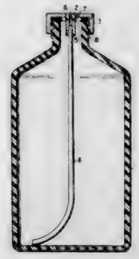
8. In a filling machine, the combination of: a filling conduit associated with a supply of finely divided material; a form block carried by the end of the filling conduit, said form block being insertable into the opening of a container, said form block being provided with parallel outer walls including alternate concave and convex container-contacting surfaces presenting a perimeter equal to the perimeter of the internal surface of the opening into the container; and movable valve means for controllably opening and closing the end of said conduit.

2,531,744
BALANCED FLUID CLUTCH
Azor D. Robbins, Glen Cove, N. Y.
Original application November 18, 1943, Serial No. 510,711. Divided and this application March 15, 1946, Serial No. 654,604
6 Claims. (Cl. 192—85)

1. A friction clutch comprising a shaft, a friction drum in axial alignment with said shaft, said shaft having a radial bore within said drum, a pair of transverse arms carried by said shaft and having eyes at their outer ends, a flexible arcuate shoe having eyes at each end of its arc length, a pin mounted through the eyes of said arms and one of the eyes of said shoe, an angularly movable arm pivotally mounted on said pin,

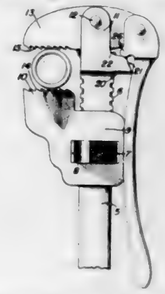
a link pivotally connecting said arm to the other eye of said shoe, a piston within said radial bore adapted to move said movable arm outwardly, said movable arm and said link being positioned to expand said shoe when said arm is moved outward and said shaft having a passage to admit fluid under hydrostatic pressure to said radial bore.

2,531,745
SQUEEZE-BOTTLE ATOMIZER FOR ACID LIQUIDS
Clifford S. Schopmeyer, Lake City, Fla., assignor to the United States of America as represented by the Secretary of Agriculture
Application November 18, 1947, Serial No. 786,598
4 Claims. (Cl. 299—99)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



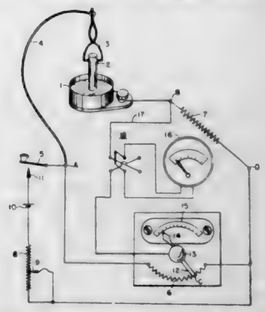
1. An acid-spraying device, for spraying a solution of mineral acid on wounds on pine trees to increase the flow of oleoresin, made of acid-resistant plastic material, comprising: an acid-proof, self-supporting, polyethylene elastic plastic compressible container for the acid; air and acid mixing means mounted by the container, comprising a metering tube having an axially and upwardly extending bore and transverse radial bores communicating with the axial bore and arranged symmetrically around the circumference of the tube, an acid delivery tube connected to the lower end of the metering tube and extending below the acid level, the transverse bores communicating with the air above the acid level in the container, the transverse bores being in alignment, the transverse bores being of the same length, the axial bore of the metering tube being finer than the bore of the delivery tube, and being straight throughout its length and visible and accessible from the outside.

2,531,746
WRENCH HAVING CAM LEVER FOR SWINGING AND LOCKING A PIVOTED OUTER JAW
Edwin A. Schumacher, Wichita, Kans., assignor of one-half to Theodore R. Breed, Wichita, Kans.
Application December 8, 1948, Serial No. 64,172
1 Claim. (Cl. 81—78)



A wrench comprising a shank having a sliding jaw and a pivoted outer jaw coacting with the sliding jaw, spring means opening the outer jaw, a lever pivoted at the rear end of the outer jaw, and camming means between the lever and the shank to exert a closing pressure on the outer jaw, said camming means comprising a rounded lug on the lever, and a shoulder extending from the rear side of the shank and having an inclined rear surface and an inclined upper surface, said lug riding on the rear surface to exert a closing pressure on the outer jaw and said lug riding on the upper surface to lock the outer jaw in a closed position.

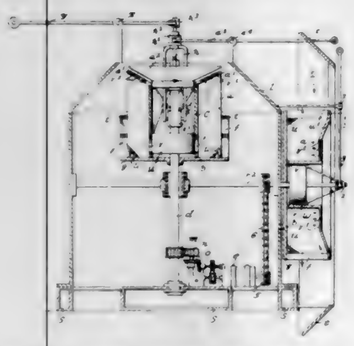
2,531,747
METAL IDENTIFIER
Robert F. Stearn, Mountainside, N. J.
Application June 12, 1947, Serial No. 754,090
2 Claims. (Cl. 204—195)



1. Apparatus for identifying certain of the metals and alloys, comprising an electrolytic device the cathode of which is constituted as a receptacle for the electrolyte and the anode of which is a specimen of the metal or alloy to be identified, in combination with means so calibrated as to directly indicate the identity of the specimen, said means comprising a potentiometer having a movable tap, an indicating pointer to which said tap is mechanically coupled, said tap and pointer being manipulatively adjustable as a unit, a plurality of calibration scales an appropriate one of which is selectable for use

when metals or alloys of a predetermined group are to be identified, the selected scale being disposed in underlying relation to said pointer and bearing indicia respecting the metals or alloys of the selected group, a bridge circuit one of the arms of which consists of said electrolytic device, another arm in series therewith being of fixed resistance value, and said potentiometer constituting two series-connected arms with respect to which the aforesaid arms of the bridge are parallel-connected, a direct current supply connected across the junctions at the ends of said potentiometer, and a direct current measuring instrument connected between two junction points of said bridge circuit for indicating potential differences between said junction points, one point being the potentiometer tap and the other point being the junction between the arms first mentioned, whereby the potentiometer adjustment when made to produce a zero-reading of the measuring instrument will show the metallic identification of the specimen by reference to the position of said pointer along the scale.

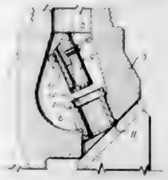
2,531,748
FLUID PROPULSION MEANS FOR AIRCRAFT
Elmer Grant Still, Livermore, Calif.
Application August 13, 1948, Serial No. 44,180
3 Claims. (Cl. 244—23)



1. In an aviation device for lifting or propelling, a disc, a rotary driven shaft disposed perpendicular to the plane of said disc extending centrally therethrough and secured thereto, a plurality of vanes having corresponding ends secured to one side of the disc and extending perpendicular therefrom, said vanes being disposed around the shaft and radially thereof and having opposite ends disposed remote to the disc and which extend radially outward from the shaft and away from the plane of the disc, and an annular cover disposed concentrically of the shaft and flared radially outwardly and away from the disc, the surface of the cover facing said disc being secured to the last mentioned end of each vane and extending from the inner edge to the outer edge of each vane.

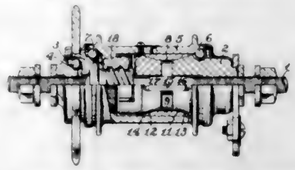
2,531,749
QUICK-CHANGE SLUSH NOZZLE
John C. Stokes and Charles C. Goolsbee, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application January 6, 1948, Serial No. 714
5 Claims. (Cl. 285—163)

1. A slush nozzle device comprising a bushing adapted to be secured in a slush port of a bit, the bushing having an annular shoulder adjacent one end of the bore therethrough, a slush nozzle with a sleeve secured thereto extending into the bushing and past the shoulder, a bell end on the sleeve,



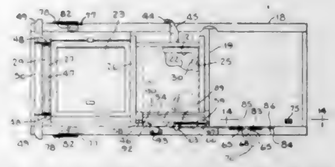
packing material within the bushing and confined between the bell end of the sleeve and the annular shoulder and means partly carried by the sleeve and engaging the bushing to secure the sleeve against axial movement in the bushing.

2,531,750
HUB BRAKE FOR BICYCLES AND THE LIKE
Richard A. Sutton, Alhambra, Calif., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application October 10, 1947, Serial No. 779,121
2 Claims. (Cl. 188—26)



1. In a vehicle brake a pair of brake members having cooperating rubbing surfaces and means for increasing the coefficient of friction between said surfaces consisting of a thin film of dry finely powdered graphite, free from admixture with any binding, lubricating, or abrasive agent interposed between said surfaces, and without the presence in the brake device of any additional graphite or lubricating material having access to the braking surfaces.

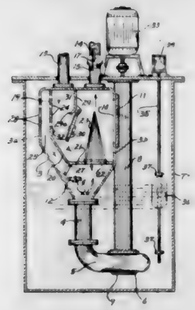
2,531,751
CAMERA BACK
Edgar Tallmadge, Waukesha, Wis.; Edith M. Tallmadge sole heir of Edgar Tallmadge, deceased
Application January 18, 1947, Serial No. 722,907
9 Claims. (Cl. 95—37)



1. In a camera back, the combination of a support provided with a viewing opening, a normally closed shutter mounted in front of said viewing opening and controlling passage of light through said opening, pneumatic means for opening the shutter, a lever, means operated by said lever for opening the shutter, a carriage having a focusing screen and a sensitized film holder mounted thereon in spaced relation, a dark slide slidably mounted on the carriage for covering said viewing opening and provided with a handle for moving the same relative to said carriage to an open

position and to a closed position, said handle in the closed position of said slide adapted to move said carriage lengthwise of said support to move the carriage from a focusing position to a picture taking position in one direction and return the carriage to a focusing position in the opposite direction, and means on the carriage engageable with said lever to open the shutter when the carriage reaches a focusing position, said means being releasable from said shutter operating means when the carriage is in picture taking position.

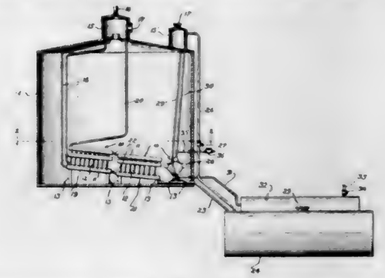
2,531,752
PUMPING APPARATUS FOR SUMPS
Richard H. Thomas, Hamilton, Ohio, assignor to Economy Pumps, Inc., Hamilton, Ohio, a corporation of Illinois
Application October 26, 1946, Serial No. 705,891
7 Claims. (Cl. 103—3)



1. In a pumping apparatus of the class described, a liquid receiving and discharging unit having an opening in its bottom adapted for attachment to the discharge pipe of a pump, said unit comprising a casing having a liquid inlet pipe and a liquid discharge pipe extending in parallel relation therefrom, a screening partition dividing the casing into a clear liquid chamber and a mixed liquid chamber, means in said casing for shutting off the inlet flow when liquid is being discharged and a clear liquid channel having a screen adjacent the inlet pipe and leading to said clear liquid chamber and a flap valve for controlling the flow through said channel.

2,531,753
TWO-STAGE VAPOR CONDENSER
Alfred H. Totten, Youngstown, Ohio
Application March 7, 1946, Serial No. 652,621
1 Claim. (Cl. 220—85)

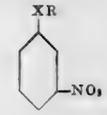
The combination of a volatile liquid storage tank provided at the top thereof with a vapor collecting dome, a primary condenser unit mounted in an inclined position on the bottom of said tank, a primary condensation receptacle disposed exteriorly of the tank substantially below the bottom of the latter, a primary vapor conduit extending from said dome to the upper end of said primary condenser unit, a primary condensation conduit extending from the lower end of the primary condenser unit to said primary receptacle, a vapor collecting chest provided on the outer surface of said tank, a vapor transmitting conduit extending from said primary receptacle to said chest, a secondary condenser unit mounted in an inclined position on the bottom of said tank, a secondary vapor conduit extending from said chest to the upper end of said secondary condenser unit, a secondary condensation receptacle disposed exteriorly of the tank



substantially below the bottom of the latter, and a secondary condensation conduit extending from the lower end of the secondary condensation unit to said secondary receptacle.

2,531,754
COCCIDIOSIS CONTROL COMPOSITION
Emanuel Waletzky, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 30, 1948, Serial No. 68,399
10 Claims. (Cl. 167—53.1)

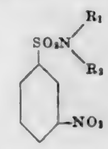
1. A medicated poultry and animal feed effective in the control of coccidiosis containing compounds of the general formula



where X is chosen from the group consisting of —S— and —SO_2— radicals and R is chosen from the group consisting of hydrogen, cationic salt-forming radicals and alkyl radicals of up to six carbon atoms

2,531,755
COMPOSITION FOR CONTROLLING COCCIDIOSIS
Emanuel Waletzky, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 30, 1948, Serial No. 68,400
7 Claims. (Cl. 167—53.1)

1. A medicated poultry and animal feed effective in controlling coccidiosis, containing an edible substance and compounds of the general formula



where R_1 and R_2 are chosen from the group consisting of hydrogen, cationic radicals, halogens, and alkyl radicals of less than nine carbon atoms in the concentration of at least 0.005% by weight.

2,531,756
TURKEY BLACKHEAD CONTROL COMPOSITION

Emanuel Waletzky, Stamford, and Harry W. Marson, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

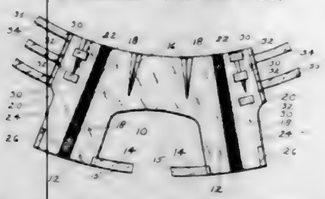
No Drawing. Application July 2, 1949, Serial No. 102,922
7 Claims. (Cl. 167—53.1)

1. A composition of matter effective in the control of enterohepatitis which comprises turkey feed and a compound of the group consisting of 2-amino-5-nitropyrimidine, 2-acetylamino-5-nitropyrimidine, 2-amino-5-nitropyridine, 2-acetylamino-5-nitropyridine, 2-amino-4-methyl-5-nitropyridine, 2-amino-5-nitrothiazole, 2-acetylamino-5-nitrothiazole, and 2-amino-4-methyl-5-nitrothiazole.

2,531,757
BANDAGE

Margaret S. Whinery, Anthony, Kans.

Application February 5, 1947, Serial No. 726,565
8 Claims. (Cl. 128—156)

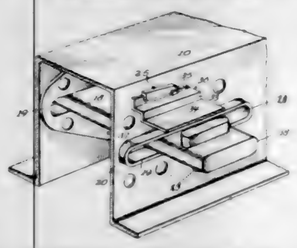


1. A bandage that comprises a central portion, a plurality of side portions that have free edges which are spaced apart to define an area adjacent an incision or wound, broad, flat outwardly extending ties on said side portions, said ties projecting outwardly from the free edges of said side portions, the ties on each of said free edges of said side portions being spaced apart distances approximating the width of the ties on the free edge of the opposed side portion, the ties on each of said free edges of said side portions being in register with the spaces between the ties on the free edge of the opposed side portion, pinning tabs on said side portions that are spaced inwardly from the free edges of said side portions, and tie-receiving loops adjacent the free edges of said side portions.

2,531,758
PIN RETAINER FOR DRAFT KEYS

Otto E. Wilson, Peru, Ind., and William H. Sale, Sanston, Va., assignors to T-Z Railway Equipment Co., Chicago, Ill., a corporation of Illinois

Application May 22, 1946, Serial No. 671,628
7 Claims. (Cl. 213—69)

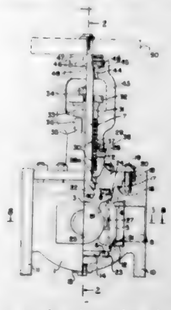


1. The combination with a draft sill, a key for connecting a draw bar and yoke movably in the sill, and having one of its ends projecting outwardly from the sill, and a key-retaining pin for the key, provided with a head for holding the pin in the key; of a pin-retaining device comprising, a bracket of plate metal, having a back flange fixedly secured to the outer side of the draft sill, a laterally and outwardly projecting flange, and a channel-forming flange, a plate having an upstanding flange, fitting between the upper and lower flanges on the bracket, and having an extension adapted to overlie the pin, said upstanding flange on the plate and the upper and lower flanges on the bracket, and tongues integral with the plate and bendable for engagement with the bracket, to hold the plate in its operative position.

2,531,759
VALVE

Andrew J. Wolf, Henry F. Moller, and William M. Crook, Houston, Tex., assignors to Reed Roller Bit Company, Houston, Tex., a corporation of Texas

Application October 21, 1947, Serial No. 781,040
8 Claims. (Cl. 251—102)



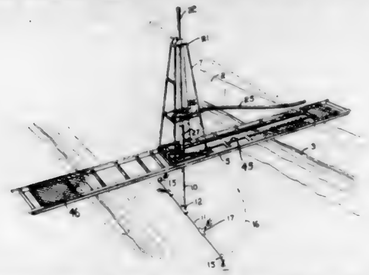
1. In a valve, a valve housing having inlet and outlet openings in opposite sides thereof, a closure adapted to seat against each of said openings to close the same and having guide followers thereon, said housing having guide surfaces each with a major part to receive one of said guide followers and hold said closures out of contact with said housing wall except when said closures are directly in register with said openings respectively and each of said guide surfaces having a cutaway minor part to receive said guide followers respectively and permit said guide followers and closures to move toward said housing wall and openings when said closures are directly in register with said openings to seat said closures against and close said openings, and a carrier rotatable in said housing to engage said guide followers and move the same along said guide surfaces to and from closed positions.

2,531,760
JET PROPELLED ROTARY ACTION SUBMARINE MUD GUN

Sterling Wilson Woolsey, Corpus Christi, Tex.

Application March 12, 1947, Serial No. 734,016
3 Claims. (Cl. 259—24)

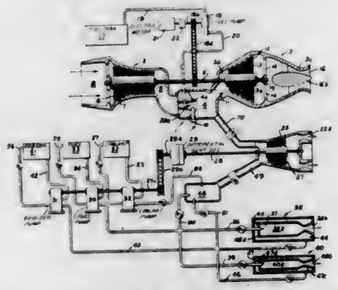
1. For use in combination with a rotary drilling mud pit of a catwalk arranged to span and rest on the edges of the pit, a derrick mounted on said walk, a mud materials discharge pipe, means to mount said pipe in said derrick, said means including a tilting and vertically adjustable connection, a supply pipe connected to said discharge pipe, means to force a stream of mud through said supply pipe, a jet propelled crosshead, a rotatable connection for said head on said discharge pipe so that the jet reaction of the discharging mud is the sole source of power for rotating said head to effect mixing of the incoming materials with the mud in the pit.



2,531,761
THERMAL JET AND ROCKET MOTOR PROPULSION SYSTEM

Maurice J. Zucrow, Altadena, Calif., assignor to Aerojet Engineering Corporation, Azusa, Calif., a corporation of Delaware

Application December 2, 1944, Serial No. 566,334
11 Claims. (Cl. 60—35.6)



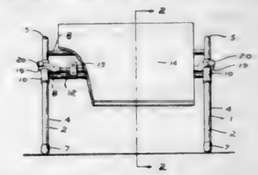
1. In combination with a thermal jet system for propelling an aircraft, comprising an air compressor, a gas turbine mechanically linked to the compressor, and a combustion chamber into which fuel is introduced and burned in the air from the compressor to provide heat pressurized gases for driving the turbine, the improvement which comprises a second turbine, a second combustion chamber and a source of propellant for introduction into the second combustion chamber, means for driving the second turbine from said second combustion chamber, a rocket jet motor operated from said propellant, pumping means driven from the second turbine for pumping propellant into the rocket jet motor and into the second combustion chamber, and means disconnectably connected with the thermal jet system for driving the pumping means.

2,531,762
BED TABLE ADJUSTABLE VERTICALLY AND TILTABLY

John Muir Allan, Vancouver, British Columbia, Canada

Application February 2, 1948, Serial No. 5,781
In Canada October 29, 1947
1 Claim. (Cl. 311—36)

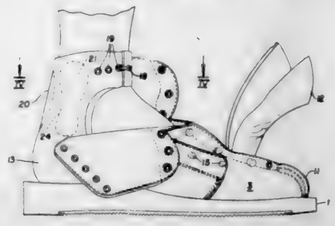
A bed table comprising a frame having a pair of side members each consisting of a length of material bent to form a pair of straight inwardly inclined front and rear legs connected at their upper end by a curved portion, a cross member united to the upper portion of the rear legs to form a rigid structure, a pair of tubular slides movable throughout the length of the front legs and a horizontal bar rigidly uniting the upper end of the slides together, said bar being adapted to support a table top.



2,531,763
SKI BOOT

Jules E. Andre, Montclair, N. J.

Application August 31, 1949, Serial No. 113,467
9 Claims. (Cl. 36—2.5)



1. In a ski shoe of the form including a sole, quarters, including vamp portions, a toe box, and a tongue, said quarters being bifurcated at the rear and provided with means for lacing the bifurcated parts together the improvement which comprises an outside counter extending upwardly between the bifurcated upper and terminating in a bifurcated above-the-ankle-band with means for holding the two portions of the band together about the ankle of a wearer.

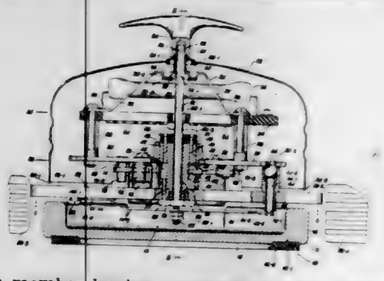
2,531,764
CONTROLLER FOR DENTAL ENGINES AND THE LIKE

David J. Binus, Louisville, Ky., and John A. Maurer, Canton, Ohio, assignors to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio

Application May 24, 1948, Serial No. 28,926
8 Claims. (Cl. 200—11)

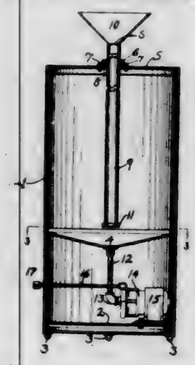
1. In electrical controller apparatus and the like, a plurality of connected mounting members, a bearing mounted on one of the mounting members and the bearing having a bore having a longitudinal axis and opposite annular end faces, a tubular stub shaft journaled in the bearing bore and having opposite end faces aligned with the end faces of the bearing, a laterally extending actuating lever secured on one end of the stub shaft, a laterally extending contact mounting bar secured on the other end of the stub shaft, the lever and bar each having an annular face portion abutting one of the annular end faces of the bearing and having an aperture registering with the bearing bore, an elongated spring member spaced from and extending laterally in the same direction along the outside of the lever and

across the bearing bore axis, means connecting one end of the spring member with the lever at one side of the axis, slide bearing means mounted on the lever at the other side of the axis, detent means slidable in the slide bearing means, the detent means having at one end a connection with the spring member and at the other end a detent head, one of the mounting members having formed therein a plurality of arcuately spaced detent engaging depressions, each detent engaging depression being located for engagement by the detent head upon swinging of the lever when the spring member is supported in one position, an endless track cam member supported on another of the mounting members, the



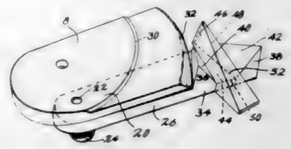
cam member having a central circular aperture concentric with the bearing bore axis and being spaced beyond the contact mounting bar, the tubular stub shaft having a bore coaxial with the bearing bore, a release rod slidable and rotatable in the bore of the stub shaft and extending through the registering apertures of the lever and bar and cam member, a cam follower pin on the release rod including an arm opposite the cam member, spring means urging the cam follower pin in abutment with the cam member, the cam member having arcuately spaced depressions at different levels, and the release rod having a connection with the elongated spring member.

2,531,765
PORTABLE OIL DRAINING DEVICE
Marshall Burress, Moses Lake, Wash.
Application June 7, 1947, Serial No. 753,259
1 Claim. (Cl. 184—1.5)



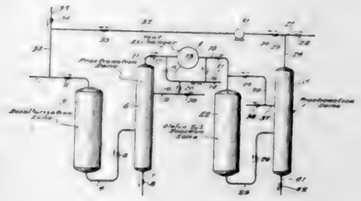
In a portable oil-draining appliance, the combination with a casing having a transverse partition forming an elevated bottom, and a closed top having a slide bearing, of an upright frictionally held drain tube adjustably mounted in the bearing and provided with an exterior funnel, a pump and operation means therefor mounted in the casing below said partition, a discharge pipe axially alined with the drain tube and connecting the elevated bottom with the intake of the pump, a delivery pipe from the pump, and an exterior attaching nipple mounted on the end of the delivery pipe.

2,531,766
ATTACHMENT FOR FUR SEWING MACHINES
Edgar Franklin Burns, Virgil R. Woodruff, and Albert R. Leonard, Jr., Spokane, Wash.
Application June 1, 1948, Serial No. 30,374
1 Claim. (Cl. 112—20)



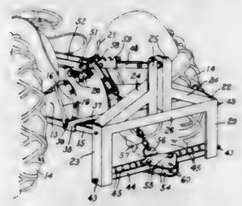
In a fur sewing machine, the combination with a needle guide plate and rotating fur-feeding discs, an arm pivotally mounted on the plate, and means for regulating the clearance between the arm and plate for adjusting the depth of a stitch, of an extension on the arm, said extension having a pair of laterally spaced depending wings and said wings having adjoining triangular and converging guide faces, and an intermediate wedge having triangular converging side walls coacting with the guide faces to form troughs alined with the adjacent rim portions of the discs, to receive the edges of the skins to be sewed and to position the fur away from said edges.

2,531,767
PROCESS FOR THE DESULFURIZATION OF HYDROCARBONS
Joseph A. Chenicek, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application July 12, 1946, Serial No. 682,978
8 Claims. (Cl. 196—24)



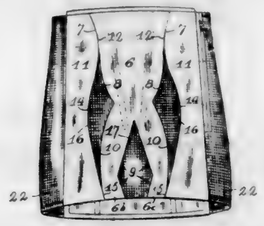
1. A combination process for the desulfurization of hydrocarbons which comprises subjecting a hydrocarbon distillate containing sulfur compounds to desulfurization in the presence of hydrogen, separating from the effluent products a liquid olefinic fraction and a gaseous fraction containing hydrogen and hydrogen sulfide, commingling said fractions and subjecting the mixture to treatment under conditions to react olefin with the hydrogen sulfide and to thereby permit ready separation of the hydrogen contained in said gaseous fraction, separately withdrawing said hydrogen and recycling at least a portion thereof to said desulfurization.

2,531,768
TRACTOR DRAWBAR
Kenneth W. Cline and De Ford Rinehart, Magnolia, Ohio
Application July 1, 1946, Serial No. 680,766
7 Claims. (Cl. 280—33.44)



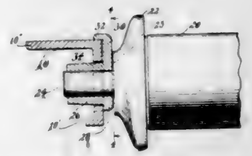
1. In combination with a tractor having a pair of draw bar levers, an upright draw bar attachment comprising a draw bar frame pivoted intermediate its ends to said levers, a draw bar connected to the lower end of said frame, hitch plates connected to the top and bottom of the draw bar and having apertures therein spaced rearwardly from the draw bar for connection to a draw bar load, an immovable bracket rigidly mounted upon the tractor above the rear axle, and a thrust link connected to the upper end of the draw bar frame and to said bracket, and a chain connected to the upper hitch plate and to said thrust link for holding the draw bar at desired height and means for adjusting the chain to change the height of the draw bar.

2,531,769
GIRDLE
Fernand Desrochers, Quebec, Quebec, Canada, assignor to Dominion Corset Company Limited, Quebec, Quebec, Canada
Application January 31, 1949, Serial No. 73,825
4 Claims. (Cl. 2—43)



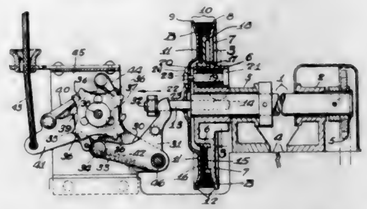
1. In a girdle of the character described, a front portion, a back portion, and side portions uniting said front and back portions, said back portion comprising an upper panel secured only along its side edges to the side portions of the girdle, said upper panel being adapted to be fitted tightly about the waist of the wearer in the lumbar region, and a lower panel secured along its side edges to the side portions of the girdle with the upper section of said lower panel in overlapping relation to at least a substantial portion of the upper panel, said lower panel being adapted to be closely fitted about the hips and lower region of the back of the wearer and having its upper edge free of engagement with the girdle, said upper and lower panels providing independent supporting fit about the respective portions of the body and being telescopically slidable relative to one another during body movements.

2,531,770
MULTIPLE-ROLLER BEARING UNIT
Jean M. Ducharme, East Walpole, Mass., assignor to Crandall Dry Dock Engineers Inc., Cambridge, Mass., a corporation of Massachusetts
Application January 27, 1948, Serial No. 4,686
4 Claims. (Cl. 61—67)



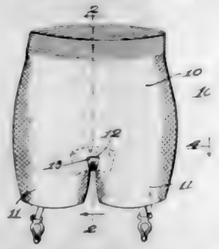
4. In a multiple-roller bearing unit for railway dry-docks, a frame with a multiplicity of rollers mounted therein adapted to be supported on a single rail of the railway with the rollers resting on the rail and with a hull resting on the rollers whereby the hull may be moved along the railway with simultaneous movement of the roll-carrying frame in the same direction but at one-half the rate of travel of the hull, an insert retainer element for each end of each roller, said frame having generally parallel side members, and there being spaced holes in the side members, each said retainer element having a body portion inserted in one of said holes and seated on the walls thereof, and each having a head end portion intervening between a side member and a body portion of the roller whereby the retainer element is restrained against any appreciable axial movement, and means on each retainer element extending radially outward from said head end portion of the retainer element with an angular foot portion engaged over an edge of a side member, whereby said radially extending means and said feet stabilize the retainer elements in the side members and prevent their rotation in the side members.

2,531,771
CLUTCH MECHANISM
William B. Engler, Green Springs, Ohio
Application December 21, 1945, Serial No. 636,325
5 Claims. (Cl. 74—230.24)



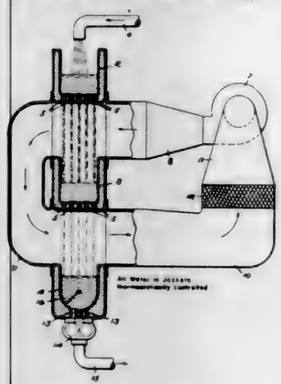
2. A control apparatus for a V belt power transmitting mechanism comprising a pair of axially aligned and relatively movable pulley members, means for relatively moving said members toward each other to grip opposite side faces respectively of the V belt, cam means for relatively moving said members apart to release said belt, means freely rotatable intermediate said members to support said belt when so released and spacer means carried by the last mentioned means comprising a plurality of discs which may be increased and decreased in number at will to effect proper engagement of the belt by said pulley members.

2,531,772
PANTY GIRDLE
Olga Erteszek, Los Angeles, Calif.
Application July 23, 1947, Serial No. 762,909
1 Claim. (Cl. 2—43)



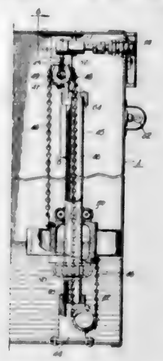
The combination with a panty girdle having short leg encircling portions and there being a substantially rectangular, front to rear narrow crotch opening formed between the upper inner portions of said leg encircling members, of a substantially rectangular closure of flexible material within the crotch portion of the girdle, the length and width of which closure are substantially greater than the length and width of said crotch opening, so as to completely cover and close said crotch opening and extend substantial distances beyond the edges thereof, complementary fastening members on said panty girdle and closure for detachably securing the central portions of the ends of said closure to the inner face of the panty girdle, beyond and in alignment with the ends of said crotch opening and other means for detachably securing the corners of the closure to said garment at points beyond and laterally from the ends of said opening.

2,531,773
METHOD OF AND APPARATUS FOR CONDITIONING CHOCOLATE AND THE LIKE
Frederick W. Greer, Belmont, Mass., assignor to J. W. Greer Company, Cambridge, Mass., a corporation of Massachusetts
Application February 11, 1946, Serial No. 646,741
10 Claims. (Cl. 261—11)



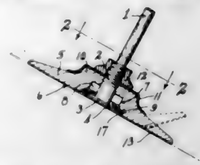
10. In an apparatus for cooling melted chocolate, the combination of a plurality of receptacles positioned one above another in vertically spaced relationship, the upper of said receptacles having parts for guiding small streams of chocolate flowing from it into positions where they will fall by gravity directly into the receptacle below it through the intervening air space separating said receptacles, means for circulating cooling air around and in contact with said free falling streams, and means for maintaining the chocolate in said receptacles within substantially predetermined temperature limits at which it flows freely, said temperature maintaining means including water jackets for said receptacles.

2,531,774
LIQUID LEVEL GAUGE
Eugene Y. Guthmann, Philadelphia, Pa.
Application March 13, 1947, Serial No. 734,330
4 Claims. (Cl. 73—321)



1. In a liquid level indicator, a float adapted to rise and fall with the level of said liquid, a standard constituting a guide for said float, a sprocket at top and bottom respectively of said standard, a chain having its ends secured to the float respectively at opposite sides of said standard, said chain passing around each of said sprockets and extending from one of said sprockets to the other substantially in alignment with the vertical center line of said float, and means associated with one of said sprockets for indicating the position of the float between said sprockets.

2,531,775
ATTACHMENT FOR FLEXIBLE ROTARY DISKS
Stanley M. Kenerson, Springfield, Mass.
Application February 7, 1949, Serial No. 75,037
1 Claim. (Cl. 51—197)



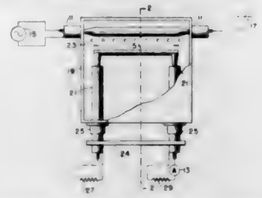
In a flexible disc attachment assembly the combination of a circular disc of flexible material having a flat face adapted to receive an abrasive sheet against the same and a square recess centrally disposed in said face with the outer side portions of the recess beveled, said disc in its central body portion being thickened around said recess to provide a relatively rigid central hub portion and an outer peripheral flexible flange portion, a spindle shank receiving opening in said central body communicating with the bottom of said recess, a hub cap of rigid material having a central opening coinciding with said spindle shank receiving opening and extending peripherally over the thickened hub portion to overlie the disc at the back of the inner margin of the flexible flanged portion of said disc, a spindle with a circular threaded shank extending through said openings and provided with a square head plate at the end thereof lying in the recess with its edges bearing against the beveled sides of the recess, said head plate having an outer facing of resilient non-abrasive material to lie inset in said recess below an abrasive sheet surface on the disc, and a clamp nut threaded on said spindle shank to bear against said hub cap and draw said head plate tightly in said recess.

2,531,776
PROCESS FOR IMPROVING THE PROPERTIES OF NATURAL RESINS AND THE PRODUCTS OBTAINED THEREBY
Ernest D. Lee, Sparta, and Rupert J. Schefbauer, Jr., Hasbrouck Heights, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application July 2, 1949, Serial No. 102,956
9 Claims. (Cl. 260—99)

1. Method for improving the properties of a resin derived from resin-bearing coal of the Utah type, which comprises subjecting a solution of the resin to the action of an amphoteric metal halide type catalyst at an elevated temperature.

9. As a new product, a resin of the group consisting of polymerized coal resin of the Utah type and polymerized oxidized coal resin of the Utah type.

2,531,777
VARIABLE DIRECTIVE COUPLER
John N. Marshall, Washington, D. C., assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application October 24, 1945, Serial No. 624,297
4 Claims. (Cl. 178—44)



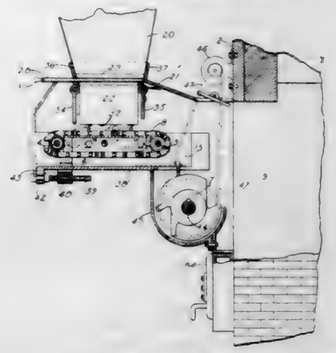
1. An electric wave directional coupler comprising two transmission lines, means for providing magnetic coupling between two substantially one-half wave length sections of the lines, electrostatic shielding means positioned between the lines, and separate impedance means attached to each end of at least one of said lines for terminating same in its characteristic impedance.

2,531,778
ADJUSTABLE LENGTH FOLDING LEGS FOR IRONING BOARDS
John Merner, Milwaukee, Wis., assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis., a corporation of Wisconsin
Application September 7, 1946, Serial No. 695,351
1 Claim. (Cl. 38—117)

In an ironing board having folding leg members disposed in different angular positions with respect to the board when positioned to support the board in operative position substantially parallel to a horizontal supporting surface, means incorporated in each leg for adjusting the length thereof for varying the height of the board above said surface comprising telescopically interfitted members including a foot section and a leg section, manually operable means for securing said sections in adjusted positions, and complemental gauge means carried by each leg member to aid in adjusting the foot sections with respect to the leg sections respectively, to assure a substantially horizontal position of the board at different

heights above said supporting surface, said gauge means including calibrations on one of the sections of each leg member, and registering gauge means on the other of said sections of each leg member, the calibrations on the several leg members being spaced different distances apart to compensate for the different angular positions of the respective legs with respect to the board, and protuberances provided on one of said sections of each leg member correlated with said calibrations and cooperable with said securing means to facilitate positioning the several foot sections in respect to their respective leg sections.

2,531,779
SPREADER STOKER
Ernst L. Midgette and Robert W. Reid, Philadelphia, Pa., assignors to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 16, 1945, Serial No. 599,812
15 Claims. (Cl. 110—115)



1. In a device of the class described, the combination of a stoker furnace having front, side and rear walls, a grate forming the bottom wall of said furnace, one of said walls having an enlarged opening therein through which fuel is fed to and distributed over said grate, a fuel feeding and distributing rotor mounted exteriorly of said wall adjacent said opening, a pair of circumferentially spaced feeding and distributing

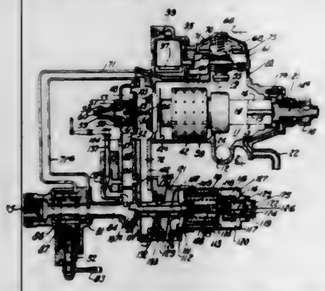
blades extending lengthwise of said rotor, curved and relatively straight fuel engaging portions provided on one of said blades for feeding and distributing the fuel evenly over substantially one-half the area of said grate, curved and relatively straight fuel engaging portions provided on the other of said blades for feeding and evenly distributing the fuel over substantially the other half of said grate, and the said relatively straight portions of said blades extending substantially in parallel relation with the axis of said rotor.

2,531,780

FUEL FEEDING SYSTEM FOR ENGINES

Frank C. Mock, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application April 2, 1945, Serial No. 586,223
40 Claims. (Cl. 60—41)



15. In a system for supplying fuel under pressure to an engine, a fuel flow passage having a metering orifice therein, a fuel valve in said passage for controlling flow of fuel therethrough, means for controlling said valve as a function of engine speed, a valve port in said passage between said fuel valve and said metering orifice, and a valve responsive to a pressure varying with variations in engine speed controlling said port for reducing the metering head when the engine attains a predetermined speed.

28. In a metering device for supplying fuel to an engine having an air intake passage terminating in an intake manifold, a fuel flow passage having a metering orifice therein, a needle controlling said orifice, and means for controlling said needle, said means comprising a housing defining a manifold pressure chamber, a spring loaded evacuated bellows mounted in said chamber and having a movable end connected to said needle, a supplemental bellows having a movable end connected to the opposite end of said first-named bellows and a fixed end anchored to said housing, said supplemental bellows being vented to a pressure constituting an index of exhaust back pressure, and means for adjusting the effective travel of said supplemental bellows.

2,531,781

UNIVERSAL TROUSER PATTERN

Giuseppe A. Mongelli, Philadelphia, Pa.

Application March 7, 1950, Serial No. 148,083
5 Claims. (Cl. 33—14)

1. A universal forepart pattern for men's trousers having a standard pattern outline, a waistline, a cuffline, a seatline, a crotchline substantially parallel to the waist, seat and cufflines, a longitudinal centerline perpendicular to the waist, crotch and cufflines and substantially 5.6" from the pocket side of the pattern outline at the crotchline, a straight line extending from the upper pocket side extremity of the waistline to a point on the crotchline substantially 1¼" to the left of the intersection of the centerline and the crotchline, a straight line drawn through the upper fly extremity of the waistline and the intersection of the centerline and the crotchline,

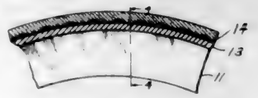
a straight line extending through the fly terminus of the seatline and the intersection of the centerline and the crotchline, and a pivot point substantially at the intersection of the centerline and the cuffline, the entire upper portion of the pattern being slit on the longitudinal centerline down to the pivot point.

2,531,782

FRICTION ASSEMBLY AND METHOD OF MAKING THE SAME

Emmett L. Moore, Atlanta, Ga.

Application April 21, 1947, Serial No. 742,783
2 Claims. (Cl. 188—234)



1. A brake assembly comprising a metal shoe; a brake lining of asbestos composition having a wire mesh reinforcement exposed on one side adjacent to the shoe; and a fused thin strip of lead-tin solder having a melting point between 400° F. and 500° F. bonding the reinforcement to the surface of the shoe throughout the extent of the lining.

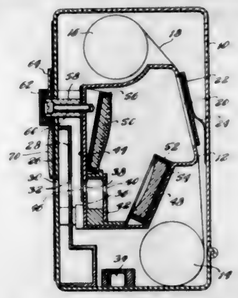
2,531,783

PHOTOGRAPHIC CAMERA

Renato Mosca, Trieste, Italy, assignor, by mesne assignments, to Macy Camera Corp., New York, N. Y.

Application August 17, 1949, Serial No. 110,789
In Switzerland May 24, 1946
6 Claims. (Cl. 95—11)

1. A stenoscopic camera comprising in combination a wall with a very small image-creating stenoscopic entrance opening acting as "pinhole lens"; a converging mirror arranged in said stenoscopic camera with its axis inclined to the axis of said very small image-creating stenoscopic entrance opening in the path of the rays entering said stenoscopic camera through said very small image-creating stenoscopic entrance opening; a diverging mirror arranged in said stenoscopic camera in the path of the rays reflected by said converging mirror with its axis inclined to the axis of said very small image-creating stenoscopic entrance opening and to



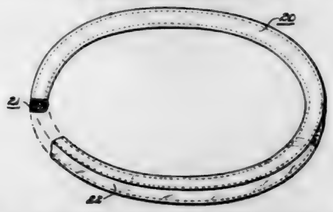
the axis of said converging mirror; and a carrier for a photosensitive surface arranged in said stenoscopic camera in a path of the rays reflected by said diverging mirror inclined to the axis of said diverging mirror.

2,531,784

PISTON RING

Hsia-Si Pien, Drexel Hill, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware

Application March 20, 1948, Serial No. 16,055
11 Claims. (Cl. 309—45)



1. A composite two-piece piston-ring comprising an integral trans-split ring formed from a strip of relatively non-resilient sheet-metal folded to provide an outer peripheral wall, top and bottom walls and an inner wall forming a continuous enclosed annular compartment; and a non-bottoming resilient one-piece annular expander disposed within said compartment and providing generally uniform outward tension around the circumference of said ring.

2,531,785

WAX REFINING

Robert W. Pressing and Bradley J. Pettibone, Racine, Wis., assignors to S. C. Johnson & Son, Inc., Racine, Wis.

Application September 10, 1948, Serial No. 48,755
6 Claims. (Cl. 260—420)

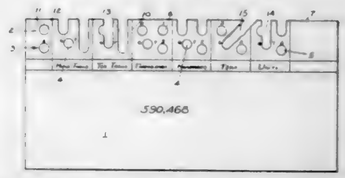
1. A process for purifying crude vegetable wax powder which has not been melted in the production thereof, comprising wetting the crude vegetable wax powder with at least 2½ parts by weight of water, having a temperature of less than 70° C., to each part by weight of wax powder, introducing said crude wax-water mixture into a centrifugal force separation zone, discharging wax from said zone in the form of a liquid slurry, discharging borra from said zone as a solid, removing the water from said slurry and mechanically recovering solid wax.

2,531,786

CARD FOR SEQUENCE SORTING

Albert A. Rembold, San Francisco, Calif.

Application November 5, 1948, Serial No. 58,494
4 Claims. (Cl. 129—16.1)



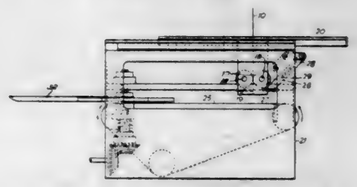
1. A card for classification purposes having a first row of uniform diameter equally spaced openings formed therein along one edge parallel therewith, a second row of openings formed in said card, alternate openings in said second row being in alignment with a corresponding opening in said first row in direction perpendicular to said edge and the other openings in said second row between said alternate openings being offset in one direction longitudinally of said second row and also offset toward said first row distances respectively less than the diameter of the openings in said first row the openings in said first and second rows being grouped in series of four approximating a square with the offset opening in each of said series of four being in the perimeter of the square opposite said edge.

2,531,787

APPARATUS FOR CONVERTING BUNDLES OF CONTINUOUS FILAMENTS INTO A SLIVER OR ROVING OF STAPLE FIBER

Cecil Rhodes and Isaac Neill McCart, Aberdovey, Wales; said McCart assignor to said Rhodes

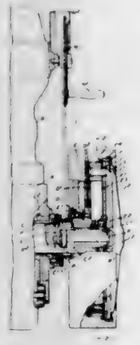
Application March 13, 1946, Serial No. 654,082
In Great Britain March 21, 1945
8 Claims. (Cl. 19—150)



1. Apparatus for producing a sliver or roving of staple fibre from a bundle of continuous filaments, comprising a stationary frame, a conveyor for the staple fibre associated with said frame, a carriage reciprocable longitudinally of said frame above said conveyor, feed rollers carried by said carriage, gearing between said feed rollers and said frame for causing rotation of the rollers during movement of the carriage in one direction thereby to feed and lay on to said conveyor a bundle of continuous filaments in spread condition, means carried by said frame for holding the end of said bundle upon said conveyor during the laying of the filaments thereon, means for severing the laid length of filaments prior to the return movement of said carriage, said gearing including means for rendering said feed rollers inoperative during such return movement, means for releasing said holding means during the return movement of the carriage, said conveyor being capable of advancement longitudinally of said frame during such return movement of said

carriage so that each length of filaments is laid on said conveyor in overlapping relation with the preceding length.

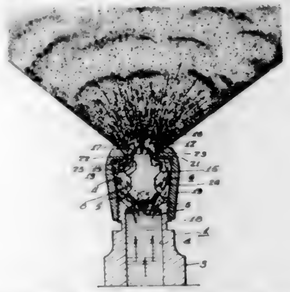
2,531,788
STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES
Harry Ralph Ricardo, London, England
Application March 30, 1948, Serial No. 17,957
In Great Britain July 23, 1947
3 Claims. (Cl. 123—179)



1. The combination with an internal combustion engine having a pressure lubricating system and a rotary part, of a flywheel disposed coaxially with said rotary part, a clutch by which said flywheel can be connected to said rotary part, resilient means connected with said clutch for engaging the clutch, a hydraulically operated member connected with said clutch and operative on increase in the hydraulic pressure applied thereto to disengage the clutch, means for rotating the flywheel when the clutch is disengaged, a hydraulic accumulator, means connecting the pressure lubricating system to the accumulator to charge same with oil under pressure, means affording a passage between said accumulator and said hydraulically operated member, and a manually controlled valve in said passage for admitting oil under pressure to said member to disengage the clutch.

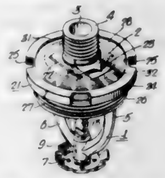
2,531,789
ATOMIZING SPRINKLER HEAD
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 19, 1946, Serial No. 663,533
3 Claims. (Cl. 299—119)

1. In an atomizing sprinkler head, a nozzle body having a generally cylindrical solid extension, a sleeve attached at one end to said body and embracing said extension so as to form with the latter an annular chamber, the other end of said sleeve having an opening for reception of the outer end of said extension and forming with the latter an annular discharge port for said chamber, the wall of said body at the base of said extension being apertured to provide admission ports to said chamber, an annular shoulder on said extension confronting the discharge port and forming in said chamber a transverse annular channel adjoining the inner end of said port, an enlargement at the said outer end of the extension forming an annular shoulder confronting the shoulder first named, and a plurality of supplementary discharge ports extending convergently from the



second named shoulder to the outer surface of said extension.

2,531,790
SPRINKLER HEAD ASSEMBLY
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 18, 1949, Serial No. 128,073
5 Claims. (Cl. 169—38)



1. In a sprinkler head assembly, a frame comprising a hollow body member forming a discharge nozzle, means at one end of said nozzle for connecting the frame in a sprinkler system, a closure for the other end of said nozzle, and thermally responsive retaining means for said closure including a support structure extending from the body member outwardly beyond the end of the nozzle, and a fitting formed with a recessed socket shaped to conform with and to receive the intermediate portion of the body member between the ends of the nozzle, said fitting being detachably supported on and embracing the body member and extending transversely from the latter to form a shield for said connecting means.

2,531,791
PACKER ASSEMBLY
William F. Silvey, Goose Creek, Tex., assignor to Neil T. Breaux, Harris County, Tex.
Application November 29, 1946, Serial No. 712,982
4 Claims. (Cl. 166—12)

1. A packer assembly shaped to be lowered into a well and comprising a mandrel, a grapple support movably mounted on and releasably connected to the mandrel and including means on the support engageable with a surrounding well casing for holding the support stationary in the casing upon release of the support from the mandrel, a casing grapple above, and connected to the support, an actuating element movably mounted on the mandrel and movable downwardly with the mandrel to actuate the grapple into engagement with the well casing to anchor the support in the casing upon release of the support from the mandrel whereby the

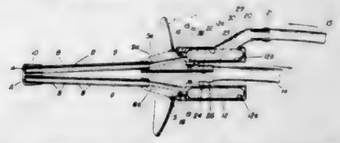
actuating element will be supported against further downward movement, an expansible packer element around and connected to the mandrel above the actuating element and having an annular lower end groove forming inner and outer lips and movable downwardly with the mandrel, means on the mandrel engageable with the actuating element to support the actuating element out of engagement with the packer while

the support is connected to the mandrel, a reenforcing ring on the outer lip of the packer element, and expander on the actuating element positioned to enter said groove upon downward movement of the mandrel relative to the actuating element and effective to rupture said ring and expand said packer element into sealing relationship with the mandrel and with the well casing.

2,531,792
SHIPPING CONTAINER
Roscoe B. Smith, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application December 10, 1946, Serial No. 715,246
4 Claims. (Cl. 229—5.5)

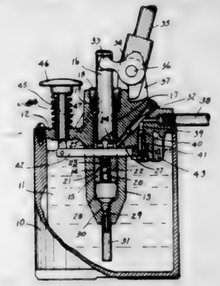
1. An end seal for a tubular fiber container which comprises an inwardly and interiorly extending fluted end wall formed by inwardly crimping the end of the container body, said fluted end wall substantially completely closing the end of the container and defining a shallow concavity extending interiorly from the folded edge of the container body, said folded edge forming a rounded hollow cavity wherein the portion of the body folded inwardly is spaced from the unfolded portion thereof; an exterior fiber disc disposed within the concavity interiorly of the folded edge and in juxtaposition to the outer surface of the fluted end wall; an interior fiber disc disposed in juxtaposition to the inner surface of the fluted end wall, said interior disc having a diameter substantially equal to the inner diameter of the container; and a plurality of metallic stitching staples passing through and securing together the exterior disc, the fluted end wall and the interior disc, said staples being disposed near the periphery of the exterior disc and forming an annular indentation therein.

2,531,793
HYGIENIC SYRINGE
Steve Sulek, San Diego, Calif.
Application April 15, 1948, Serial No. 21,243
3 Claims. (Cl. 128—241)



1. In a feminine hygienic vaginal syringe, the combination of a rounded base having inlet passageways and an outlet passageway therethrough, an elongated nozzle formed of spaced perforated pipes each seated in one of said inlet passageways of said base, and located to spray the folds of the vaginal tract when inserted therein; a casing having an annular chamber connected with said base and registering with the inlet passageways thereof; a quantity of antiseptic material installed in said chamber in the path of the incoming fluid and permitting its ready passage therethrough; means for feeding a continuous stream of said incoming fluid into said chamber, and means connected with said outlet passageway of said base for conducting away the used fluids after having been sprayed without being brought into contact with the incoming stream.

2,531,794
PUMP
David C. Walmsley, Battle Creek, Mich., assignor to Schwitzer-Cummins Company, Indianapolis, Ind., a corporation
Application April 20, 1945, Serial No. 589,317
3 Claims. (Cl. 103—41)

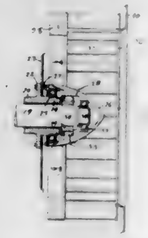


1. In a pump including a housing carrying a head thereon and containing a supply of fluid, an outlet conduit in said head through which said fluid is pumped under pressure and a bypass formed in said head between said outlet conduit and the interior of said housing, the combination therewith of a valve in said bypass, a plunger for retaining said valve closed when moved to one position and permitting it to open when moved to another position, a lever operatively connected to said plunger having one end thereof pivotally connected with said head, a manually actuated stem pivotally connected to the other end of said lever extending upwardly through said head, and a spring between said head and stem to yieldingly retain said lever and plunger in valve closing position under spring tension, whereby said lever may be manually depressed against the tension of said spring to permit opening of said valve for returning the fluid under pressure to said housing.

2,531,795
BALLOON WRAPPER
Paul O. Walter, Billings, Mont.
Application January 12, 1950, Serial No. 138,161
2 Claims. (Cl. 18—56)

2. The method of wrapping an article that includes the steps of partially inflating a toy balloon, pressing the article to be wrapped upwardly against the wall of the balloon so as to surround the article with the balloon and define an annular collar-like inflated balloon extension immediately below the article, twisting the article so as to wrap the balloon therearound, and finally deflating the balloon.

2,531,796
FREEWHEELING STOKER FAN
Ernest C. Webb, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application January 3, 1945, Serial No. 571,180
5 Claims. (Cl. 110—72)



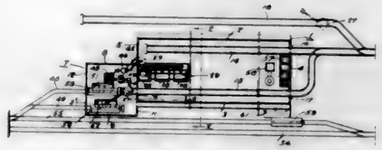
1. In a fuel burner, the combination of a fuel conveyor, an air conveyor operatively associated therewith, said air conveyor comprising an impeller shaft and an impeller, a motor operatively connected with said fuel conveyor and said impeller shaft, and free wheeling means interposed between said impeller and said shaft whereby said air conveyor is adapted to operate after an operation by said fuel conveyor.

2,531,797
EXTENSIBLE METALLIC STRUCTURE
Rudyard K. Wellman, St. Clair Shores, Mich., assignor to Wellward Tool Company, Inc., Detroit, Mich., a corporation of Michigan
Application March 3, 1948, Serial No. 12,703
4 Claims. (Cl. 160—222)

1. A metallic awning structure comprising a plurality of connected slat members each having an integral depending forward wall terminating in a rearwardly extending flange spaced inwardly from the body portion of the slat, each of said slat members further including an integral depending rear wall portion merging into a reversely folded upstanding rear wall portion having spaced apertures therein and terminating in a forwardly extending flange spaced outwardly from the body portion of the slat, and a plurality of spaced guide rod members connected to and extending between said depending forward and rear slat walls, the intermediate portions of said guide rods respectively loosely extending through the spaced apertures in said upstanding rear wall

of an adjacent slat to connect said slats for relative sliding movement in opposite directions respectively into extended and stacked relation, said forwardly extending rear wall flange of a said slat member when in extended position engaging against the depending forward wall of a connected slat member closely adjacent said rod members to space said rear wall inwardly on the rod members a substantial distance from said connected forward slat wall, to maintain the extended slats in substantially self supporting relation.

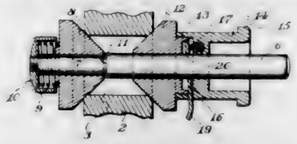
2,531,798
SUPERPHOSPHATE MANUFACTURING PLANT
Edward A. Werner, Atlanta, Ga.
Application July 25, 1946, Serial No. 686,104
11 Claims. (Cl. 23—259.2)



1. In a superphosphate manufacturing plant, a building housing the essential elements of the plant including a den, apparatus for delivering acidulated phosphate rock material to the den, and storage space for the superphosphate end product, the width of said building being substantially such as to accommodate between the side walls thereof the base of a pile of the superphosphate end product which at normal angle of repose will extend well toward the top of the building, a track extending along one side wall in an elevated position well below the level of the top of said pile but clear of the inclined side of the latter, and a mobile boom crane mounted for travel on said track and having an effective operational range embracing both the den and storage areas, said crane being thereby operative to build said pile, by transfer of the superphosphate product from the den to the storage area, and to reclaim from the pile substantially all of said product.

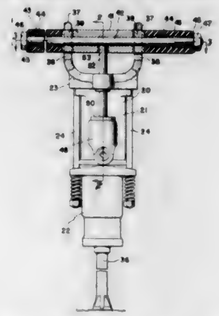
2,531,799
SUPPORT WITH CENTERING DEVICE
Arlie I. Zumwalt, Tulsa, Okla.
Application April 13, 1948, Serial No. 20,737
3 Claims. (Cl. 33—207)

1. A centering device adapted to be supported in an aperture extending through a member, said centering device comprising a shaft extending through the aperture, a spring pressed cone slidably mounted on one end of the shaft and engaging one end of the aperture, a spring carried by the shaft and cooperating with said cone for urging the cone towards the aperture end, a second cone slidably mounted on the shaft and reversely positioned in relation to the first mentioned cone,



a cylindrical sleeve detachably connected to the second cone on its outer side, a latch chamber formed in the second cone and cylindrical sleeve, a rockable latch member in said chamber and through which latch member the shaft extends, spring means cooperating with one end of the latch member for rocking the same and gripping the shaft and means for controlling said latch member from outside the sleeve.

2,531,800
CUSHIONING DEVICE FOR ROCK DRILL HANDLES
James H. Anderson, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application November 22, 1947, Serial No. 787,595
5 Claims. (Cl. 121—36)



1. In a cushioning device for rock drills, the combination of a casing having a piston chamber, a fluid actuated reciprocatory piston in the piston chamber acting to compress fluid in said piston chamber, guide means on the casing, a handle for guiding the rock drill and being slidable in the guide means, and means subjected to fluid medium compressed by the piston for cushioning the movement of the handle.

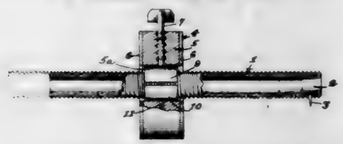
2,531,801
LUBRICATING OIL COMPOSITION
Edward S. Blake, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 21, 1946, Serial No. 678,374
11 Claims. (Cl. 252—56)

1. A compounded lubricating oil comprising predominately a mineral lubricating oil said oil having incorporated therein 0.1% to 10% with respect to the oil base of an oil soluble partial ester of a higher fatty acid containing at least 6 but not more than 22 carbon atoms and a polyhydric alcohol further esterified with a saturated aliphatic hydroxy polycarboxylic acid having not more than three carboxyl groups and at least one hydroxyl group not more than two carbon atoms removed from a carboxyl group of said acid.

2,531,802
FILTER AND VALVE MECHANISM
Robert Q. Boyer, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 30, 1944, Serial No. 566,002
16 Claims. (Cl. 210—150)

1. A multiple port valve comprising a central body member, a plurality of flexible tubes carried by said member, a sleeve element surrounding said member and mounted for movement with respect thereto, and pinch mechanism carried by said member and engageable by said element for simultaneously releasably pinching a plurality of said tubes into closed position against said body member while leaving one tube open, said pinch mechanism comprising a plurality of spaced pinch members, each pinch member being adapted to cooperate with a single tube, and said sleeve element having means for releasing said pinch members from pinching relation with said tubes seriatim and one at a time.

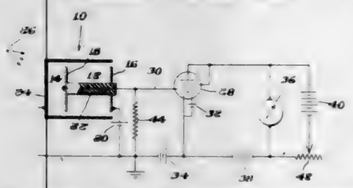
2,531,803
MARKING GAUGE
Roy Caldwell, Clearfield, Pa.
Application July 6, 1945, Serial No. 603,446
2 Claims. (Cl. 33—42)



1. In a marking gauge, a threaded stock, having a scribing point projecting laterally from one end, a head on said stock having a vertically elongated opening therein, an arcuate plate fitted in the lower end of said opening, a screw passing through said plate and engaging in said head to hold said plate in position, said head having a threaded opening extending through the upper end of said head into said opening, a thumb screw extending through said opening, and a second arcuate plate in said opening and having threads on the side confronting the first plate, and a swivel connection between the second plate

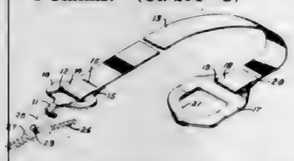
and the thumb screw for causing movement of the second plate towards and from the first plate by revolution of said thumb screw.

2,531,804
MEASUREMENT OF THE INTENSITY OF PENETRATIVE RADIATIONS
Jack R. Carlin, Watertown, and Eric T. Clarke, Cambridge, Mass., assignors to Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts
Application September 24, 1949, Serial No. 117,621
14 Claims. (Cl. 250—83.6)



1. In apparatus for measuring the intensity of penetrative radiations such as are emitted by radioactive substances, the combination comprising: an ion chamber, a pair of electrodes mounted in said chamber, a source of low voltage arranged to impress a collecting voltage on said electrodes such as to produce an ionization current well below saturation value, a connection from one of said charged electrodes to carry said ionization current, means for employing said ionization current to reduce the total ionization current developed, and means for measuring the ionization current so reduced.

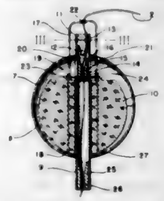
2,531,805
ZIPPER ACTUATING DEVICE FOR HOOKLESS FASTENERS
Edward J. Clark, Los Angeles, Calif., assignor to Carmelita M. Clark, Los Angeles, Calif.
Application October 14, 1947, Serial No. 779,666
4 Claims. (Cl. 294—1)



1. A device for manipulating a slide fastener in which there is an element having an eyelet comprising: a rigid hook member adapted to engage said eyelet, and a smooth surfaced flexible and pliable strap attached to said hook member and of a length sufficient to extend approximately from the waist to the shoulder of an average sized person, whereby the user may manipulate a slide fastener up or down at the back of a garment worn by the user without having to maintain manually a grasp on the fastener element, by engaging said hook member in said eyelet and drawing said strap upwardly to raise the fastener element or downwardly to lower the fastener element.

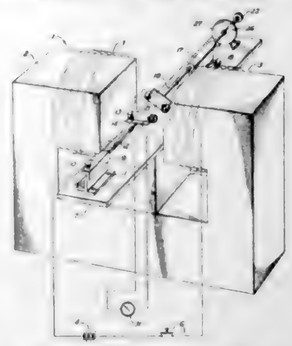
2,531,806
FISH TACKLE FLOAT
Earl A. Coughlin, Detroit, Mich.
Application March 11, 1948, Serial No. 14,309
3 Claims. (Cl. 43—44.91)

1. A fishing bob of the character described comprising, a buoyant float, a ball float movable relative to the buoyant float and comprising walls forming a hollow chamber having an aperture extending therethru in the region of its lowermost portion for serving as a water inlet, a tubular member extending axially through said floats, and attached to said secondary float, said buoyant float being axially slidable on said tubular member, a clamping element positioned within said tubular member and in fixed relation with



said ball float, a complementary clamping element within said tubular member and in fixed relation with said buoyant float, and a fish line extending through said tubular member and between said clamping elements, whereby when relative movement between the floats is effected to move one clamp against the other the fish line will be held between the clamping elements for securing the fish line with the bob.

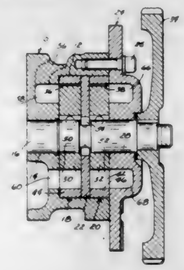
2,531,807
MAGNETIC MEASURING APPARATUS AND METHOD
John De Pangher, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application October 28, 1948, Serial No. 56,996
6 Claims. (Cl. 175—183)



1. In a method of determining the effective area of a coil, the steps comprising connecting a standard coil and a coil of unknown effective area in bucking relationship, applying a charge inducing force at known angles to the axes of said coils, varying the angle between the axes of said coils until equal charges are induced in each coil, and determining said angle for said condition of equal charges.

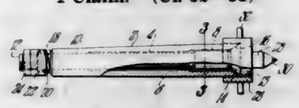
6. An apparatus for determining the effective area of a coil comprising in combination means establishing a homogeneous magnetic field, means to vary said magnetic field, a coil of unknown effective area placed within and parallel to said magnetic field, a standard coil of known effective area placed within and perpendicular to said homogeneous magnetic field, means to vary the angle of the axis of said standard coil with respect to said magnetic field, further means attached to said standard coil to indicate thereby the amount of said angle, means electrically connecting said coils in bucking relationship, and a meter connected therebetween indicating difference of charge induced in said coils by the variation of said magnetic field.

2,531,808
PUMP
Walter R. Eames, Warren Township, Macomb County, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 27, 1946, Serial No. 657,568
10 Claims. (Cl. 103—126)



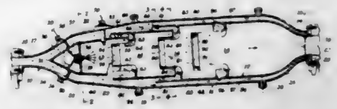
1. A dual pump assembly comprising a housing having a bore open at one end and closed at the other end forming a pumping chamber therein, a pair of rotor pumps comprising pumping means mounted in the bore, a freely rotatable spaced plate mounted in the bore between the pumps relatively rotatable to the pumping means and housing, and a cover plate enclosing the pumps and spacer plate within the housing, said housing and cover plate each having suitable intake and discharge ports respectively for one of the pumps.

2,531,809
CENTER
John Robert Fish, Springfield, Mass.
Application January 31, 1946, Serial No. 644,548
1 Claim. (Cl. 82—33)



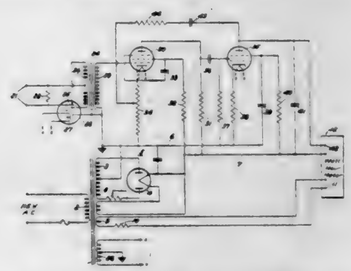
A center construction comprising in combination, an outer non-rotating tapered stationary member having a longitudinal central bore with the sides of the bore at the forward end diverging outwardly and providing a conical female socket at the extremity thereof, an inner rotatable drive center member extending through the central bore of said stationary member and having a forward end provided with a conical male head portion complemental to and rotatable in the conical female socket at the outer end of the bore of said stationary member, a compression spring provided at the rear end of said center member and backed therewith by nuts for adjusting the spring action and for urging said stationary and center members into rotatable relation under more or less pressure, an outer nose part secured to the head and carrying a projection having a sharp edge, a radial arm member provided on said nose part and adapted to be engaged by a rotating element of a machine to facilitate driving relative to said stationary member.

2,531,810
AIR INLET ARRANGEMENT FOR COMBUSTION CHAMBER FLAME TUBES
Robert J. Fyffe, Perth Amboy, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application June 5, 1946, Serial No. 675,243
15 Claims. (Cl. 60—44)



1. A combustion unit comprising a combustion chamber, means for injecting fuel into said chamber, ignition means in said chamber, a housing for said chamber defining with said chamber an annular air flow passage adapted to conduct combustion air generally parallel to the flow of ignited fuel in said chamber, a plurality of series of circumferentially spaced combustion air inlets in the peripheral wall of said chamber, each series being spaced from, and staggered with respect to, its adjacent series, each inlet being adapted to admit combustion air from said air flow passage into said chamber in a direction generally parallel to the flow of said ignited fuel, and a plurality of vanes mounted on said chamber interiorly thereof, each of the vanes so mounted being positioned in said chamber so that it is aligned longitudinally of said unit with, and downstream from, one of the air inlets of said series, each vane being adapted to deflect the air streaming into the interior of said chamber through its respective air inlet obliquely countercurrent to the flow of the ignited fuel to bring about thorough mixing of the fuel and combustion air in said chamber.

2,531,811
COULOMBMETER
Jay E. Hammel, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application July 28, 1948, Serial No. 41,011
3 Claims. (Cl. 171—34)



3. A coulombmeter for indicating the time integral of a direct current, comprising an input circuit for receiving said direct current, conversion means connected to said input circuit for deriving a square wave alternating voltage having an amplitude proportional to said direct current, an alternating current watt-hour meter having a voltage and a current coil, a capacitance connected across said voltage coil to form a parallel resonant circuit, means for connecting the square wave alternating voltage output of

said conversion means to said parallel resonant circuit, and means for constantly energizing said current coil.

2,531,812

APPLICATION OF DRILLING FLUIDS

Ernst A. Hauser, Cambridge, Mass.
No Drawing. Application January 16, 1948, Serial No. 2,821
6 Claims. (Cl. 252—8.5)

1. An oil-base well-drilling fluid containing a modified clay, originally exhibiting a substantial base-exchange capacity, in which the clay cation has been replaced by a substituted cation of the class of onium bases consisting of ammonium, phosphonium, sulfonium, arsonium, stibonium, oxonium and telluronium bases, and which forms a gel in the oil phase of the fluid and has a substantial gel characteristic therein to the extent that 2 grams of which modified clay swell to at least 12 milliliters in nitrobenzene.

2,531,813

PROCESSES FOR PRODUCING TRANSPARENTIZED AND CRINKLED CELLULOSIC FABRICS

Georges Heberlein, deceased, late of Wattwil, Wanne, Switzerland, by Georg Heberlein, Jr., legal heir and administrator, Wattwil, Switzerland, and Ernst Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y., a corporation of New York
No Drawing. Application June 12, 1945, Serial No. 599,114
8 Claims. (Cl. 8—114.5)

1. A process for producing permanent and wash-resistant pattern effects in cellulosic fabrics, which comprises: pattern printing the fabric with at least one pigment-containing, wash-resistant, water-insoluble reserve which is substantially impermeable to parchmentizing agents but permeable to shrinkage agents, while leaving all unpigmented areas of said fabric unreserved, subjecting the fabric to overall parchmentizing treatment, thereby to parchmentize all said unpigmented areas, and subjecting at least portions of the fabric, including at least portions of the pigmented areas, to shrinkage treatment without tension, thereby to impart to the areas so treated, shrinkage effects in the pigmented portions and a different sheerness in the parchmentized portions.

2,531,814

PATTERNED FABRICS AND PROCESSES FOR PRODUCING SAME

Georges Heberlein, deceased, late of Wattwil, Switzerland, by Georg Heberlein, Jr., legal heir and administrator, Wattwil, Wanne, Switzerland, and Ernst Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y., a corporation of New York
No Drawing. Application November 20, 1946, Serial No. 711,206
8 Claims. (Cl. 8—115)

1. A process for producing permanent and wash-resistant pattern effects in cellulosic fabrics, which comprises: pattern printing the fabric with a pigment-containing, wash-resistant, water-insoluble reserve which is permeable to shrinkage agents, and with a parchmentizing agent, drying and heating to fix the pigment and develop the parchmentizing effect, thereby to produce permanent, pigmented and parchmentized pattern areas, and thereafter subjecting at least portions of the fabric, including at least portions of the pigment-printed areas, to treatment with a shrinkage agent, without tension, thereby to impart to the areas so treated, a different sheerness in previously parchmentized but unpigmented fabric portions and shrinkage in previously untreated fabric portions as well as in pigmented but unparchmentized fabric portions.

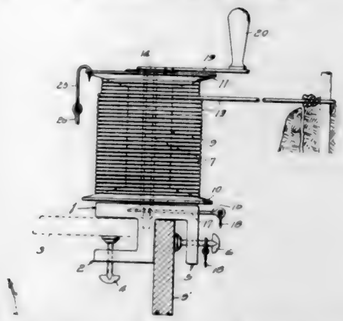
2,531,815

WITHDRAWN

2,531,816

TROTLINE FISHING REEL

William Homoky, St. Louis, Mo.
Application January 29, 1947, Serial No. 724,955
8 Claims. (Cl. 242—106)

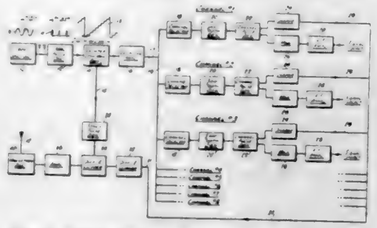


1. In a device of the class described, a clamp structure adapted to be attached to a boat, a tubular member secured to and projecting from said structure, a spool mounted for rotation on said tubular member, a crank, means connected with the crank having telescopic connection within the tubular member for positioning the crank in operative position.

2,531,817

COMPENSATED CHANNEL SELECTOR

William D. Houghton, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 4, 1945, Serial No. 608,957
2 Claims. (Cl. 179—15)

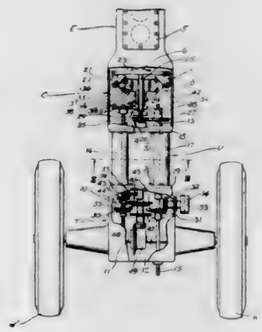


1. In a pulse type multiplex system having a plurality of channels whose inputs are connected together in electrically parallel relationship, in each channel of which there is provided a channel selector vacuum tube, the channel selector vacuum tubes being differently biased to the anode current cut-off condition so as to become conductive at different voltage levels of an applied input wave, each channel selector tube having an anode and a grid, a common source of anode potential for said tubes, and individual resistor networks connected between said anodes and said source, each resistor network including a bypass condenser connected between ground and a point intermediate the ends of the resistor network, the method of operation which includes simultaneously applying an input wave of increasing voltage value to the inputs of said selector vacuum tubes, said input wave having such a range of voltage values that the different selector tubes become conductive at different voltage levels of the applied input wave, and selecting that same value for all of the anode resistor networks by varying the proportionate values of the resistor network and the common source of anode potential to produce pulses having the same amplitude of voltage from all of said selector tubes whenever they conduct regardless of the value of the cut-off bias thereon.

2,531,818

TRACTOR

Frank N. G. Kranick, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application July 1, 1946, Serial No. 680,740
9 Claims. (Cl. 180—53)

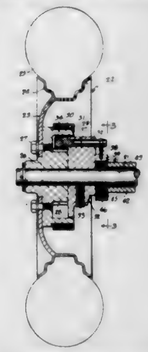


2. A tractor construction including an engine and clutch housing, a transmission and axle housing longitudinally spaced from the engine and clutch housing and connecting means between the housings comprising a plurality of laterally spaced narrow tubular elements providing a space therebetween through which the ground immediately beneath the tractor is visible from an operating position on the tractor, a plurality of clutch devices in said clutch housing driven by said engine, a drive shaft in one of said tubular elements controlled by one of said clutch devices, change speed mechanism in said transmission and axle housing actuated by said drive shaft, an axle in said transmission and axle housing and driven by said change speed mechanism and a power take-off shaft supported by said transmission and axle housing and driven from another of said clutch devices through another of said tubular elements so as to be operatively independent of said drive shaft and axle.

2,531,819

REVERSIBLE RATCHET DRIVE MECHANISM FOR POWER VEHICLES

Arthur J. Lewis, Stratford, Conn., assignor to The Baird Machine Company, Stratford, Conn., a corporation of Connecticut
Application June 3, 1948, Serial No. 30,771
12 Claims. (Cl. 192—50)

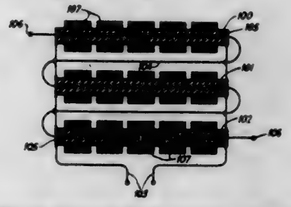


1. A drive for a tractor wheel including a drive shaft, means for driving said shaft, a hub mounted to turn on the shaft, a block at one side of the hub secured on the shaft to be turned by the shaft, a ratchet on the hub comprising a series of spaced shoulders arranged around the hub, a pawl pivotally mounted in the block and comprising spaced lugs on opposite sides of its pivot adapted to engage said shoulders to drive the hub in opposite directions, a stationary housing enclosing the shaft and provided with a bearing, a collar mounted to turn on said bearing and provided with spaced shoulders, and an extension connected with the pawl and extending between said shoulders to swing the pawl on its pivot to engage the ratchet by retarding action of the collar on said extension as the block turns with the shaft.

2,531,820

VOLTAGE TRANSFORMER

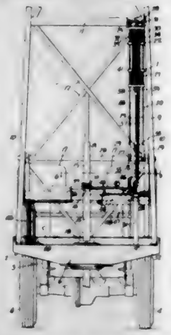
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application February 3, 1943, Serial No. 474,539. Divided and this application March 8, 1946, Serial No. 652,911
7 Claims. (Cl. 171—119)



1. A voltage step-up transformer comprising a primary in the form of a plurality of tubular conductors physically spaced from each other and electrically connected together in parallel electrical relationship, and a secondary in the form of an uncoiled continuous conductor extending through the interiors of all of said tubular conductors, the dimension of each tubular conductor measured along the length of

the secondary which it surrounds being considerably greater than the transverse dimension of the tubular conductor, said secondary conductor being insulated from said tubular conductors, and cores of good magnetic qualities individually surrounding said tubular conductors.

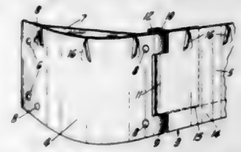
2,531,821
ROD SPINNING APPARATUS
Robert A. McCallum, Clarendon Hills, Ill., and Edward M. Luce, Michigan City, Ind., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Application January 7, 1947, Serial No. 720,504
8 Claims. (Cl. 255—35)



1. In a rod spinning apparatus, the combination comprising a support carrying an upright frame structure, a vertical cylinder on said support and containing a reciprocable piston having its piston rod extending upwardly through the upper head of the cylinder, means carried by said frame structure providing a guideway extending vertically in alignment with the cylinder above the latter, a multiple reeve cable and pulley mechanism comprising a stationary upper pulley block at the upper end of said guideway and a movable lower pulley block guided on said vertical guideway, a connection between said piston rod and said movable pulley block and extending along said guideway, a guide pulley on said support above said cylinder, said cable and pulley mechanism including a cable having one end held stationary and reeved about the pulleys of said blocks, said cable at its other end extending downwardly from the upper pulley block and around said guide pulley, said cable extending substantially horizontally from said guide pulley and adapted to be coiled about a drill rod to be spun with its free end held taut by the operator, and means for effecting fluid supply to said cylinder to effect downward movement of said piston and said lower pulley block thereby to draw in the end of the cable coiled about the drill rod to spin the latter.

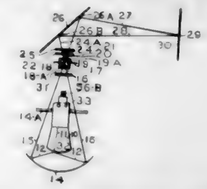
2,531,822
DRAPE-SUPPORTING CRANE
Edward G. Moeller, Davenport, Iowa
Application November 25, 1947, Serial No. 787,964
3 Claims. (Cl. 160—335)

3. A crane for the purpose stated comprising a swinging arm and a bracket, each provided along its upper edge with spaced drape-impaling prongs, the bracket being formed from flat sheet material and having its two end portions substantially straight and including between them an angle of approximately ninety degrees (90°), the end portions being connected by an arcuate portion, the swinging arm and the bracket being hingedly connected, and a brace member spanning the arcuate space between the end portions of the bracket, one end of the brace member being secured to the bracket adjacent one end thereof, and a portion of the brace remote from



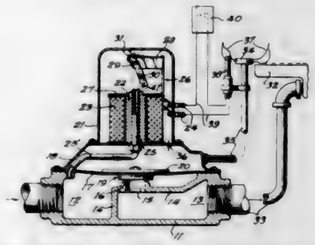
the said end of the brace being secured to the second end portion of the bracket, a portion of the brace member forming a bridge over the hinge connecting the bracket and the swinging arm and an extension thereof forming a stop to limit the swinging of the arm in one direction.

2,531,823
COLOR TELEVISION APPARATUS
Howard J. Murray, New York, N. Y.
Application November 13, 1946, Serial No. 709,472
11 Claims. (Cl. 178—5.2)



1. Stationary color television apparatus for changing the color of a beam of oscillating light in a periodically repeated sequence of different colors, which comprises means for plane polarizing the said light, means for rotating the said polarization thereof, doubly refracting means so positioned in the path of the said rotated light as to change the wave-length of the said light transmitted therethrough according to the said rotation, means for color analyzing the said doubly refracted light according to the wave-length thereof and screen means for intercepting the said analyzed light, said rotating means being connected to a source of E. M. F. pulses periodically repeated in the said sequence.

2,531,824
MAGNETICALLY-CONTROLLED VALVE
Eugene Paille, Los Angeles, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application May 10, 1947, Serial No. 747,310
8 Claims. (Cl. 138—25)

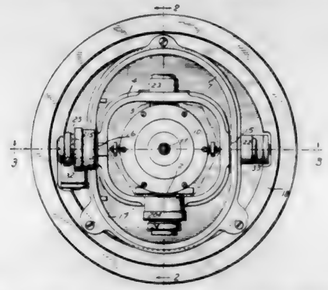


1. In a valve operator: an electromagnet, an armature member attractable by said electromagnet and biased therefrom, and a jet member so disposed that when said armature member is attracted the same is brought into alignment with the jet member and is then spaced by a small distance from the mouth thereof so that the flow capacity of the jet member is substantially reduced.

2,531,825
PAINT, VARNISH, AND LACQUER REMOVER
Edwin P. Peterson, Brooklyn, and Oscar P. Muller, New York, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 29, 1947, Serial No. 738,235
11 Claims. (Cl. 252—163)

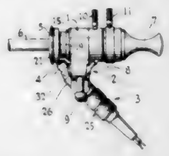
1. A softener or remover for coatings, consisting essentially of an organic liquid of a generally coating penetrating and loosening character, having colloidally dispersed therein in an amount sufficient to substantially increase the viscosity thereof, a cation-modified clay, originally exhibiting a base-exchange capacity of at least 25 and in which the inorganic cation has been exchanged for an onium base of a type capable of and to an extent sufficient to form with the clay anion an onium-clay, 2 grams of which onium clay swelling to at least 16 milliliters in nitrobenzene.

2,531,826
GYROSCOPE ERECTING SYSTEM
Wladimir A. Reichel, Hackensack, N. J., assignor, by mesne assignments, to Kearfott Company, Inc., New York, N. Y., a corporation of New York
Application September 5, 1946, Serial No. 695,060
11 Claims. (Cl. 74—5.47)



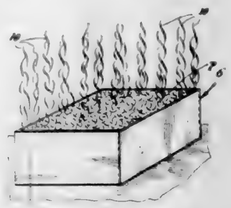
1. A gyroscope erecting system comprising a gyroscope, gimbal means mounting said gyroscope for pivotal movement about a pair of axes normal to each other, a pair of pendulums mounted to pivot about axes parallel to said first axes, units of an electrical synchronous transmission system connected to be actuated by pivotal movement of said gyroscope about the respective axes, additional units of said electrical synchronous transmission system connected to be actuated by pivotal movement of said pendulums about the respective axes, means interconnecting the respective units to produce signals representing angular deviations of the gyroscope from the positions of the pendulums, and torque motors responsive to said signals mounted to apply precessing torques to said gyroscope about said axes so as to maintain a predetermined angular relationship between the spin axis of said gyroscope and the positions of said pendulums.

2,531,827
ROTATABLE VALVE AND SWITCH SUPPORT FOR ENDOSCOPIC INSTRUMENTS
Harry S. Rubens, Manhasset, and Ignaz Suwa, Jackson Heights, N. Y., assignors to National Electric Instrument Co., Inc., Elmhurst, N. Y., a corporation of New York
Application August 7, 1948, Serial No. 43,097
5 Claims. (Cl. 128—7)



1. In an endoscopic instrument, the combination comprising an endoscopic tube and support therefor, an electrical contact ring positioned on said support coaxial with said endoscopic tube and insulated therefrom, a rotatable member mounted on and rotatable about said support, said rotatable member having mounted thereon an electrical switch system and a valve assembly cooperative with an orifice formed through the wall of said endoscopic tube, said electrical switch system comprising a rotatable housing detachable from said rotatable member, said housing containing an axially moveable contact insulator having a diametrically slotted end and recessed therein a contact pin, said contact pin being cooperative with said contact ring to provide an electrical switch operable upon rotation of said rotatable housing.

2,531,828
COATED FUEL IMPREGNATED BLOCK
Lloyd G. Schultz, New York, N. Y.
Application February 20, 1945, Serial No. 578,832
26 Claims. (Cl. 158—96)

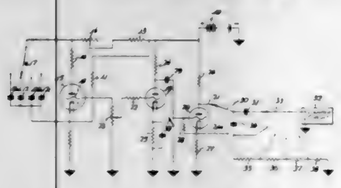


1. An article of the character described comprising a piece of absorbent material having mixed therewith a liquid fuel and having a fire resisting easily frangible coating adhered on the sides for resisting the passage of air.

2,531,829
INHIBITION OF OIL WELL CORROSION
John L. Seymour, New Rochelle, N. Y.
No Drawing. Application January 31, 1948, Serial No. 5,685
13 Claims. (Cl. 252—8.5)

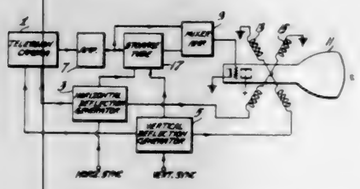
8. The process of inhibiting the corrosion of oil and gas well apparatus by fluids originating in the well that includes the step of injecting an alkylene oxide into the well.

2,531,830
VOLTAGE PULSE GENERATOR
Albert R. Simpson, Knoxville, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application August 16, 1944, Serial No. 549,737
3 Claims. (Cl. 250—36)



1. An oscillation generating circuit comprising a gas discharge thyratron tube having a cathode, control grid, and anode electrodes; a source of potential exceeding the value required to ionize the gas between said anode and cathode, resistance means and capacitance means connected in series relationship, said capacitance means being connected in parallel relationship with the discharge path through said tube; and output circuit means for extracting pulses of energy from said tube comprising said control grid and a conductor connected thereto.

2,531,831
METHOD OF IMAGE TRANSMISSION
John Paul Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 29, 1947, Serial No. 782,804
5 Claims. (Cl. 178—6)



1. A method for the electrical transfer of image information comprising the steps of developing a video signal representative of a repeating scanning process, dividing said video signal into equal intervals representative of complete scanning rasters, comparing sequential intervals of said video signals, developing from said comparison an image element to image element difference signal, and combining said difference signal with said video signal.

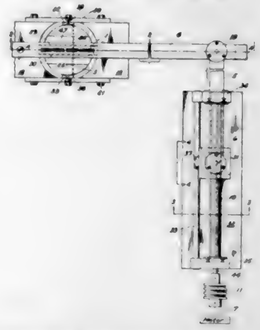
2,531,832
SILVER HALIDE DEVELOPERS CONTAINING POLYETHYLENE GLYCOLS
William Alexander Stanton, New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 12, 1947, Serial No. 754,279
7 Claims. (Cl. 95—88)

1. The process of developing a silver halide image with a photographic developer solution containing a silver halide photographic developing agent and a compound of the general formula

$$R—OCH_2CH_2O(CH_2CH_2O)_nCH_2CH_2OR'$$

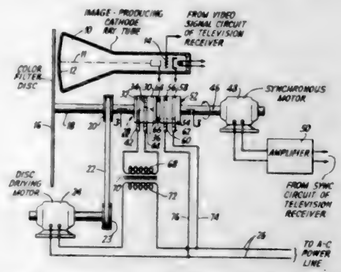
where R and R′ are members taken from the class consisting of hydrogen and aliphatic carboxylic acyl radicals of 1 to 18 or more carbon atoms and n is 7 to 200.

2,531,833
TACHOMETER
Henry A. Straus, Baltimore, Md., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 2, 1949, Serial No. 130,823
3 Claims. (Cl. 171—209)



1. A tachometer comprising a pair of permanent magnets disposed in spaced relation to each other for producing a substantially radial magnetic field; a coil on a form mounted to move within said magnetic field to develop an electromotive force; and means for turning said coil through a limited arc in either direction responsive to the speed of said shaft, including a threaded member coupled to said shaft, a traveling member carried on the threaded member, a first link member pivotally coupled at one end to said traveling member, and a second link member coupled at one end to said form, the opposite ends of said link members being pivotally connected.

2,531,834
SPEED CONTROL SYSTEM
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 9, 1946, Serial No. 668,447
6 Claims. (Cl. 318—73)



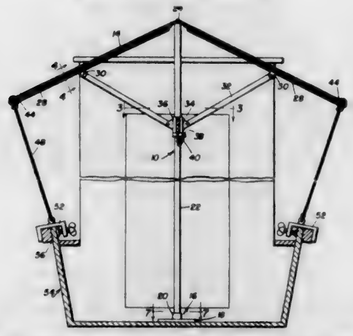
1. In a motor speed control system: a first motor connected to a source of alternating current to rotate at a speed proportional thereto;

a second motor; means for causing said second motor to operate at a substantially constant speed; electrical switching means respectively connected to each of said first and second motors, said switching means being normally open when the speed of said first motor bears a predetermined constant ratio to the speed of said second motor; and means energized upon a closure of said switching means upon a departure in speed ratio between the first motor and the second motor for varying the current supply to said first motor from said source in opposite sense to the direction of departure of said first motor from said predetermined constant ratio, said means energized upon a closing of said switching means including one winding of a transformer, the other winding of said transformer being connected to said source of alternating current in series with said first motor.

2,531,835
EXTENSION KEY CHAIN
Carl A. Anderson, Cranston, R. I., assignor to Anson Incorporated, a corporation of Rhode Island
Application July 2, 1947, Serial No. 758,611
2 Claims. (Cl. 24—116)

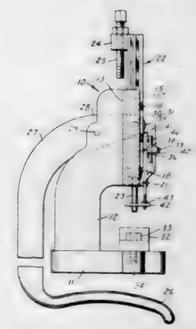
2. In an extension chain device, a lock member comprising a shell having an open top, sides, an upper end and a lower end, said upper end having a chain securing part and a chain passage opening, and said lower end having a chain passage opening, and a lock member in said sheli having a top plate positioned beneath the open top of the shell, a bottom plate, and a connector for said plates, said top plate having a forward downwardly extending tongue in juxtaposition to said shell lower end, said tongue having a chain passage opening, said top plate being resiliently urged away from said bottom plate to normally displace the tongue opening from the shell lower end opening, and being manually movable to bring the tongue opening and the shell lower end opening in alignment.

2,531,836
BOAT AWNING
Max W. Barr, Midland, Mich.
Application January 16, 1947, Serial No. 722,361
3 Claims. (Cl. 135—6)



3. A canopy comprising a pair of vertical stands spaced from each other, bosses slidably disposed on said stands and having links pivoted thereto, a pair of substantially U-shaped frames, each having a web and a pair of legs extending therefrom, said links being pivoted to said legs, a cover disposed on said frames, the inner ends of the legs of one of the U-shaped frames being spaced from the inner ends of the legs of the other U-shaped frame, said cover being passed over said frames and arranged to cover the space between said inner ends of said legs and secured in this region to said stands forming a hinge point for said U-shaped frames, and means operatively connected with said bosses for maintaining said bosses in a selected position on said stands.

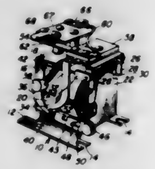
2,531,837
SAFETY GUARD FOR PRESSES
George F. Beebe, Waterbury, Conn.
Application November 2, 1948, Serial No. 58,000
7 Claims. (Cl. 192—137)



1. In a machine, a stationary head and a plunger mounted on said head for vertical reciprocating movement, a lock plate rigid with said plunger and projecting at the forward side of said head, a mounting plate on the forward side of said head at one edge of said lock plate, said mounting plate having a notch opening through its forward side and its inner edge, a cam, means pivotally mounting said cam for movements between a position substantially wholly within said notch and out of the way of said lock plate and a locking position projecting through the edge of said notch and into the path of movement of said lock plate, a carrier plate movable vertically in a plane forwardly of said lock plate, a pair of vertically spaced parallel arms pivoted at their respective ends to said mounting plate and carrier plate, a vertical feeler rod, means securing said feeler rod to said carrier plate for vertical adjustment relative thereto, a feeler means on the lower end of said feeler rod, an extension-like part rigid with the upper of said arms and having a slot therein including substantially right angularly related portions, a pin rigid with said cam in spaced relation to the pivotal mounting of the cam and extending through the open side of said notch and through said slot, said parts related whereby when said upper arm is in its upper position said pin is in the first portion of said slot and said cam is projecting through the edge of said notch into the path of downward movement of said locking plate to positively limit downward movement of said plunger and whereby when said upper arm is in its lowest position said feeler means is in its lowest position and said extension-like part is

positioned with said pin in the second portion of said slot and said cam is substantially wholly within said notch and clear of the path of downward movement of said locking plate, a stud rigid with the upper of said arms and movable with the latter from a position at a side of the path of movement of said locking plate to a position in such path and extending over the upper edge of the locking plate whereby as said plunger and plate move downwardly said stud is released and said arms, carrier plate and feeler rod gravitate downwardly as said arms turn about the means pivoting them to the mounting plate and said feeler means moves ahead of the plunger, and as said plunger and plate move upwardly the upper edge of the plate engages said stud and moves the same upwardly moving said arms in the opposite direction on their mentioned pivots and raising the feeler rod and means.

2,531,838
LATCHING RELAY
Arnold H. Bergemann, North Mankato, Minn.
Application August 8, 1947, Serial No. 767,436
4 Claims. (Cl. 74—2)

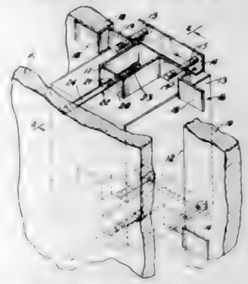


1. In an electrically set and reset latch relay, a frame, a coil mounted on said frame, a shaft supported by said frame for rotation, and an armature mounted on said shaft for pivotal movement, means actuated by said armature upon successive energization of said coil for setting and resetting said shaft in various positions of rotation including a bell crank pivotally disposed on said shaft, a latching lever pivoted to said frame, locking means formed on said latching lever and said bell crank, a spring carried by said latching lever and said bell crank constantly urging said latching means in the locked position, and an actuator member pivoted to said armature operatively engaging said locking means upon actuation of said armature for releasing said locking means.

2,531,839
STOCKING AND METHOD OF SEWING SAME
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Inc., a corporation of Delaware
No Drawing. Original application April 12, 1946, Serial No. 661,912, now Patent No. 2,483,455, dated October 4, 1949. Divided and this application January 24, 1947, Serial No. 724,249
3 Claims. (Cl. 2—239)

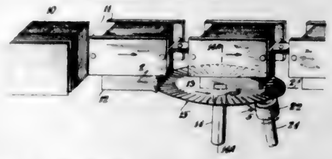
1. In the manufacture of seamed stockings of thermoplastic material, such as nylon, the method which includes the steps of sewing the stocking seam with preshrunk, pre-set, thermoplastic thread of the same material as the stocking, and subsequently subjecting the seamed stocking to a shrinking process at a temperature of about 245° F., said seam thread being substantially non-shrinkable at said temperature.

2,531,840
ADAPTER
Louis C. Carlson, South Ozone Park, N. Y.
Application August 5, 1947, Serial No. 766,201
5 Claims. (Cl. 248—205)



1. A device for mounting an electrical outlet box or the like in an opening in one of spaced front and back walls comprising a strip member having a central well portion, shoulders at the edges of said member for engagement with the inner surface of the front wall adjacent the opening, supporting bar portions intermediate said well and the shoulders, said well portion being provided with a threaded opening, a jamming screw adjustably mounted in said threaded opening of the well for engagement with the back wall to jam the shoulders against the front wall adjacent the opening whereby the strip member may be positioned in substantially coplanar bridging relation with the opening adjacent one end thereof, and threaded openings in said bar portions for receiving outlet box supporting screws.

2,531,841
DISK BLADE FOR TRIMMING BOOK BLOCKS
Frank J. Cashin, Hanover, Pa., assignor, by mesne assignments, to De Florez Engineering Company, Incorporated, a corporation of Connecticut
Application June 16, 1948, Serial No. 33,412
1 Claim. (Cl. 164—70)

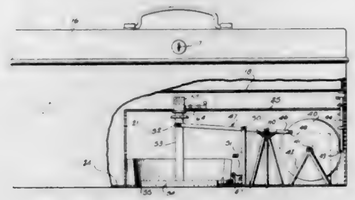


Cutting apparatus adapted for the purpose described comprising a thin, rigid disk having its periphery bevelled on one side to provide a sharp, circular cutting edge, and having a multiplicity of shallow spaced grooves, each extending in a radial direction for a substantial distance toward the center of the disk beyond the bevel and of V-cross-section, said grooves being formed in the other side of the disk and intersecting said cutting edge and bevelled periphery to provide a plurality of indented portions spaced apart around said periphery.

2,531,842
ALARM FOR STRONGBOXES
Edgar B. Davis, Tangerine, Fla.
Application November 23, 1948, Serial No. 61,681
3 Claims. (Cl. 116—99)

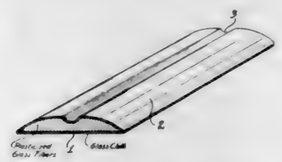
1. A strong box alarm comprising a box having an opening in the bottom wall thereof, a disk

slidable through said opening and normally retained within said box by the weight of the box bearing on a supporting surface, a cover element in said box overlying said disk and spaced thereabove, a rod on said disk, spring means engaged between said rod and cover biasing said disk downwardly through said opening, a spring wound alarm member in the box including a rotatable



member, a pin on said rotatable member spaced from the axis thereof, a lever pivoted in the box and pivotally engaged at one end on said rod, the other end of said lever engaging said pin for normally retaining said alarm member against actuation and releasable therefrom upon lifting of the box for sliding said disk downwardly through said opening.

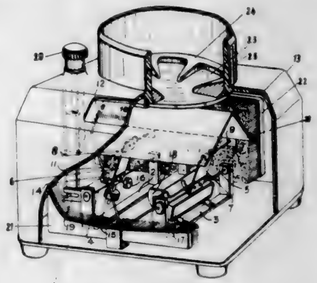
2,531,843
STIFFENING FOR GARMENTS
Clarence M. Durey, University Heights, and Fred A. Maynard, Cleveland, Ohio
Application December 6, 1948, Serial No. 63,686
4 Claims. (Cl. 2—258)



1. A flexible stiffening for garments, comprising a body of glass fibres and a flexible bonding agent covering the outer surface thereof and the individual glass fibres so as to prevent abrasion between the same, and a flexible fabric covering adhering to the outer surface of said body of glass fibres and having the interstices between its strands filled with said bonding agent.

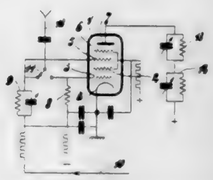
2,531,844
INSTRUMENT FOR MEASURING COMPRESSIONAL WAVE RADIATION PRESSURE
Georg Fiedler, Erlangen, Germany
Application May 13, 1949, Serial No. 93,148
In Germany December 30, 1948
24 Claims. (Cl. 181—0.5)

11. Instrument for measuring sound radiation pressure including a container completely filled with a sound-conducting liquid, part of the wall of said container being permeable to sound, a measuring system disposed within the sound field in said container comprising a displacement body which is movable against a reacting force in the direction of the sound radiation, an indicating element, means for transmitting to said indicating element the displacement of said body responsive to sound radiation pressure impinging there-



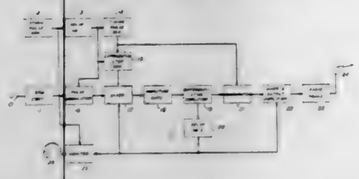
on, and buoyancy means for exerting a lifting force on said system.

2,531,845
WIRELESS RECEIVER COMPRISING AUTOMATIC GAIN CONTROL
Bernardus Octavianus Maria Gall, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 7, 1947, Serial No. 727,186
In the Netherlands July 29, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 29, 1964
3 Claims. (Cl. 179—171)



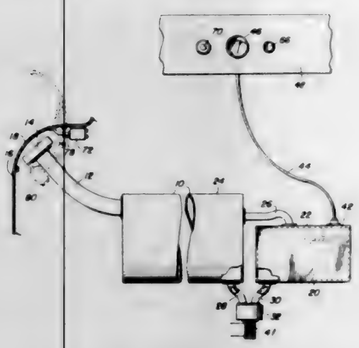
2. In a receiver circuit arrangement adapted for the reception of a first input signal and a second input signal whose frequency is lower than the frequency of the first signal and provided with means to develop an automatic volume control potential in accordance with the signals, a high frequency stage comprising an electron discharge tube having in the order named a cathode, a first helically wound control grid, a screen grid, a second helically wound control grid and an output electrode, said first control grid being wound with a substantially constant pitch and said second control grid being wound with a varying pitch, means to apply said automatic volume control potential exclusively to said second control grid, a first input circuit tuned to the frequency of said first signal and coupled to said first control grid, a second input circuit tuned to the frequency of said second signal and coupled to said second control grid, an output circuit coupled to said output electrode, and means selectively to apply said first signal to said first input circuit thereby to apply said first signal exclusively to said first control grid and to apply said second signal to said second input circuit thereby to apply said second signal exclusively to said second control grid.

2,531,846
COMMUNICATION SYSTEM EMPLOYING PULSE CODE MODULATION
William M. Goodall, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 13, 1947, Serial No. 734,372
7 Claims. (Cl. 179—1.5)



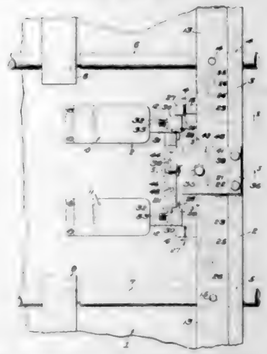
1. Apparatus for decoding code groups of time modulated pulses representing a complex wave form comprising a source of locally generated pulses including a pulse for each pulse interval for each of the code groups of time modulated pulses, apparatus responsive to those received time modulated pulses which coincide in time with said locally generated pulses for suppressing said locally generated pulses, and apparatus responsive to unsuppressed locally generated pulses for reconstructing said complex wave form.

2,531,847
RESERVE FUEL SUPPLY
Douglas C. Haley, Marietta, Ga.
Application June 14, 1948, Serial No. 32,870
1 Claim. (Cl. 158—46.5)



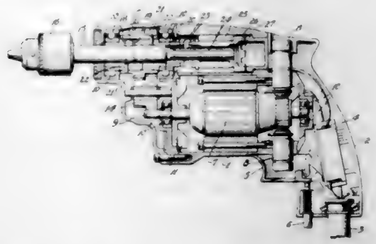
In an automotive vehicle including a main fuel tank having a filler neck and a removable cap thereon, a reserve fuel supply comprising an auxiliary fuel tank positioned externally of the main tank, an air conduit connecting upper portions of said tanks so that air may pass from the reserve tank to the main tank during the filling operation, a fuel conduit connecting lower portions of said tanks, a normally closed electromagnetic valve provided in said fuel conduit, an electric switch secured to said filler neck and provided with a depressible plunger, said plunger being engageable by said cap and retained thereby in its depressed position wherein said switch is open, and an electric connection between said switch and said valve, whereby the valve may be automatically opened by the removal of said cap.

2,531,848
APPARATUS FOR RELEASING LOCKING MECHANISM OF VAULT DOORS
Harvey L. Henkel, Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Florida
Application April 26, 1948, Serial No. 23,214
7 Claims. (Cl. 292—161)



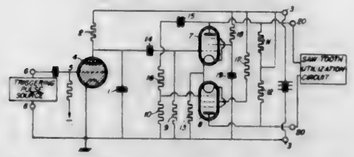
1. Locking mechanism for the door of a compartment comprising door bolts carried by the door for engagement with a wall of the compartment, a carrying bar attached to the bolts and movable therewith, locks having lock bolts adapted to occupy a position obstructing movement of said carrying bar, a handle operable from within the compartment and connected with the carrying bar, a cam secured to the handle, and means actuated by the cam to move the lock bolts from their obstructing positions as the handle is turned in a direction to move the bar to disengage said door bolts from said wall.

2,531,849
POWER-OPERATED HAND TOOL
Edward H. Karleen, Denville, N. J., assignor to Processing Equipment Corporation, Bloomfield, N. J., a corporation of New York
Application February 12, 1949, Serial No. 76,118
8 Claims. (Cl. 74—57)



1. In a power operated hand tool holder, a drill chuck bearing shaft to which reciprocating motion is imparted by means of a rotating sleeve encircling such shaft and operably connected therewith by a pin projecting radially from such shaft into a circumferential cam slot in the interior surface of such sleeve, said shaft being restrained from rotating by a linking sleeve splined thereto and engaged with a stationary brake; and to which rotary motion is imparted by means holding said linking sleeve in disengagement with said stationary brake and in engagement with the said rotating sleeve.

2,531,850
DEVICE FOR PRODUCING SAWTOOTH CURRENTS OR VOLTAGES
Frederik Kerkhof, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,119
In the Netherlands June 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 1, 1965
4 Claims. (Cl. 250—27)



1. A balanced saw-tooth wave generator, comprising a source of a saw-tooth wave having a non-linear characteristic of given configuration, a first electron discharge tube system comprising a cathode, a control grid and an anode defining a cathode-grid circuit and a cathode-anode circuit and having a grid voltage-anode voltage non-linear characteristic of a configuration substantially inverse to said given configuration, means to apply said non-linear saw-tooth wave to said cathode grid circuit to produce in said cathode-anode circuit a linear saw-tooth wave, a second electron discharge tube system comprising a cathode, a control grid and an anode defining a second cathode-grid circuit and a second cathode-anode circuit and having a non-linear grid voltage-anode voltage characteristic, means to couple said first cathode-anode circuit to said second cathode-grid circuit to apply to said second cathode-grid circuit a saw-tooth wave having a substantially linear characteristic, and means to apply to said second discharge tube system an inverse feedback voltage to produce in said second discharge tube system a substantially linear grid voltage-anode voltage characteristic.

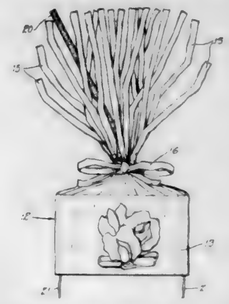
2,531,851
TOE PROTECTOR
Isadore Kiwad, Westwood, N. J.
Application October 26, 1949, Serial No. 123,694
2 Claims. (Cl. 128—81)

1. A toe protection device comprising a longitudinal main support member having a length sufficient to extend transversely below a plurality of toes, a plurality of relatively thin flat toe spacing members movably disposed upon the main support member and adapted to extend between adjacent toes to maintain the same in spaced relationship, said spacing members being further adapted to be moved adjacent to each other to provide a composite spacing member of increased thickness comprising a plurality of individual spacing members having their adjacent flat surfaces in contact with each other.

2,531,852
RIBBING BLOCKING MACHINE
Albert G. Kohle, Burlingame, and Thomas A. Greenley, San Bruno, Calif.
Application November 8, 1949, Serial No. 126,202
7 Claims. (Cl. 223—61)
7. A device for reshaping ribbed portions of garments comprising a base, downwardly directed movable spurs secured to said base, a horizontal support mounted on said base, a coiled spring extending longitudinally of and around said support, a plurality of forwardly and upwardly ex-

tending spurs movably secured between spaced turns of said spring, means for releasably holding said spring in expanded position, and downwardly movable means carried by said base and being formed and arranged to meshingly engage over said last-named spurs.

2,531,853
SNAPPER PARTY HAT
Julius E. Larman, Hartford, Conn.
Application July 12, 1948, Serial No. 38,238
4 Claims. (Cl. 46—176)



1. A novelty device comprising a hat, a chin strap for positioning said hat on the head of a wearer, a detonator affixed to the inside of said hat and a pull member, one end of said member being attached to the detonator and the other end extending through the crown of said hat.

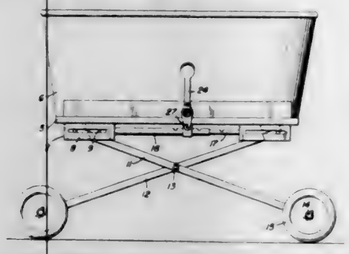
2,531,854
HAIRPIN
Gad A. Lambert Linden, Brooklyn, N. Y.
Application June 18, 1946, Serial No. 677,539
1 Claim. (Cl. 132—50)

A hair pin formed from a continuous, uniform strip of spring metal to provide an opposed pair of elongated, parallel leg portions having hair-gripping inner lengths joined at adjacent ends by an approximately circular spring loop, and outer lengths forming with the other ends of the inner lengths rounded ends to facilitate insertion of the hair pin, said outer lengths extending in close spaced parallel relationship with the inner lengths and into engagement with the opposite sides of said loop and beyond to afford free end finger tabs for holding the pair of leg portions in open relation, said finger tabs having complementally curved ends arranged in overlapping relation for sliding engagement with each other.

2,531,855
SIPPING STRAW
Adalsveinn M. Loptson, Batesburg, S. C., now by judicial change of name Alexander M. Loptson
Application September 19, 1946, Serial No. 697,871
4 Claims. (Cl. 299—17)

4. A sipping straw comprising an elongated tubular body, said body being substantially elliptical in cross-section, a reinforcing flat partition longitudinally and centrally disposed in said body, and a member wrapped around one end portion of said body.

2,531,856
COLLAPSIBLE CART
Arthur J. Marcouiller, Milwaukee, Wis.
Application July 15, 1949, Serial No. 104,863
2 Claims. (Cl. 280—41)



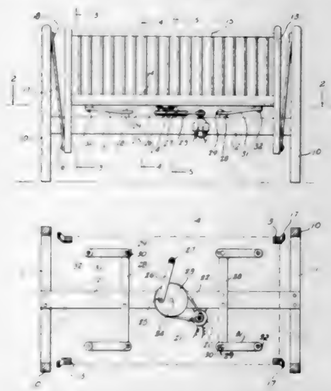
1. A collapsible cart comprising a body portion, a pair of legs at each end of the body and at opposite sides thereof, the legs at each side of the body being pivotally connected to each other at their intermediate portions and having wheels at their lower ends, transverse rods connecting the upper ends of each pair of legs to each other for uniform raising movement to raise said body, means slidably supporting the rods at the under side of the body, spring means connected to the rods for sliding the same to raise the legs, a contractile hollow member connected to the rods and housing said spring means, and means for locking the contractile member in different contracted positions to hold the legs raised into different positions for correspondingly raising said body.

2,531,857
DRESS FORM
Joseph J. Martini, New Dorp, N. Y.
Application November 27, 1948, Serial No. 62,340
8 Claims. (Cl. 223—68)

1. In a dress form having inwardly movable shoulder portions for reducing the width of the form in the upper portion thereof; retract means connected to said shoulder portions and movable toward and away from each other, a plurality of relatively movable slide means actuated by the movement of said retract means, detent means mounted on one of said slide means for engage-

ment with the other slide means and means associated with the other slide means for controlling the movement of said detent means and limiting the operation of said retract means.

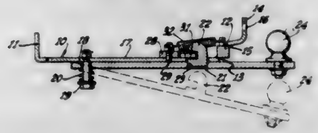
2,531,858
CRADLE
Clarence L. Miller, Chase, Kans.
Application June 17, 1947, Serial No. 755,170
1 Claim. (Cl. 5—109)



In a cradle and cradle frame assembly including an elongated, rectangular cradle, an elongated cradle frame having a length greater than the length of the cradle, upstanding ends including corner posts higher than said cradle, and a longitudinal beam extending between and connected at its opposite ends to the respective frame ends, respective links extending from said corner posts near the upper ends of the latter to said cradle near respective bottom corners thereof suspending said cradle in said frame for swinging movements from side to side, and motor driven means mounted on said longitudinal beam and connected to said cradle for imparting reciprocating, lateral swinging movement to the latter, means restraining said cradle against longitudinal and turning movements comprising, two bars secured to and extending perpendicularly across said longitudinal beam near respective ends of said cradle, respective links extending between the ends of said bars and the adjacent corners of said cradle and means pivotally connecting said links to said bars and said cradle and providing lost motion connections between said links and said bars, said links and said bars providing with

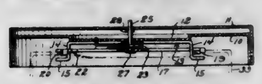
the corresponding ends of said cradle parallelograms connected respectively between the ends of said cradle and said longitudinal beam to restrain said cradle against longitudinal movement relative to said beam and against angular or turning movements relative to said beam.

2,531,859
TRAILER HITCH
Edward J. Mock, Harrisburg, Oreg.
Application December 1, 1947, Serial No. 789,081
4 Claims. (Cl. 280—33.44)



1. A trailer hitch comprising a frame applicable to a vehicle forwardly of the rear bumper thereof, a bar having a connection for the attachment of a trailer drawbar thereto, a pivot bolt extending through the bar mounted on the frame, said pivot bolt having adequate clearance enabling the bar to be swung downwardly beneath the frame to clear the connection beneath the bottom of the bumper and to be swung forwardly of the rear bumper while thus cleared, a compression spring about the bolt urging the bar upwardly with relation to the frame, and means for releasably holding the bar in either a position wherein the connection is disposed rearwardly of the rear bumper or forwardly thereof.

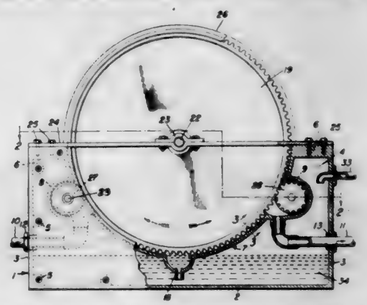
2,531,860
SAFETY CAP FOR GAS TANKS
Charles E. O'Neal, Jr., Jackson, Miss.
Application June 29, 1948, Serial No. 35,799
2 Claims. (Cl. 220—40)



2. In a spring cap assembly, a cap part, a cap arm secured to the undersurface of said cap part and having laterally extending portions adapted to engage with the neck of a tank, a holding arm adapted to enter slots in the neck of the tank, said holding arm having end portions for receiving therein the laterally extending portions of the cap arm, stop means on said holding arm for preventing the holding arm from passing underneath the neck of the tank, and means for maintaining the holding arm on the laterally extending portions of said cap arm, said last named means comprising a spring extending between the cap part and the holding arm.

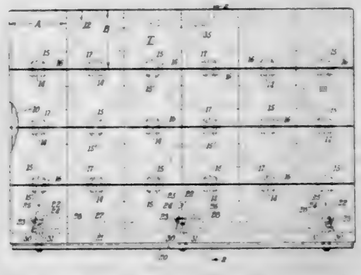
2,531,861
GEAR PUMP FOR PRESSURE LUBRICATION PURPOSES
Bertram P. Schmitt, Jamaica, N. Y.
Application July 8, 1947, Serial No. 759,501
2 Claims. (Cl. 103—126)

1. In a pump, a casing adapted to contain oil, an arcuate trough in said casing having side flanges and a longitudinal dividing rib therein, an oil inlet in the trough at a point midway between the ends of said trough for admitting oil into the trough from said casing upon suction being created in the trough, a gear wheel with divided side by side series of teeth fitting in said trough between said flanges and rib, said wheel being journaled on said casing for rotation in opposite directions, respectively, to create suction in said trough and carry oil from said inlet toward opposite ends of the trough alternately upon rotation of said wheel in opposite directions, respectively, and means located be-



tween each end of said trough and said inlet operative by said wheel alternately in accordance with the direction of rotation of said wheel to force oil from between the teeth of said series out of said casing.

2,531,862
TILE SETTING APPARATUS
Philip Schneider, Dunellen, N. J.
Application February 11, 1949, Serial No. 75,960
2 Claims. (Cl. 294—87)



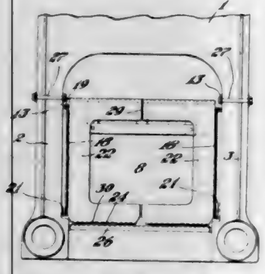
2. In a device for securing an assemblage of tile blocks in position, in combination, a flat supporting surface member, an abutment at one edge of said member, a movable clamp at an opposite edge of said member, holding means intermediate of said abutment and said movable clamp adapted to be slidably engaged between two tile surfaces, said intermediate holding means being adjustably positionable in a direction parallel with respect to the plane of the supporting surface member, but confined vertically with respect thereto, means to urge said clamp into clamping position, means to lock said clamp in position, and means carried by said clamp urging means to release the pressure applied by said clamp.

2,531,863
PHENOLIC RESINS
Milton J. Scott, Springfield, and Elwood F. Jackson, Ludlow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 12, 1948, Serial No. 26,725
12 Claims. (Cl. 260—43)

11. A resin comprising a product prepared by reacting one mol of a phenolic compound taken

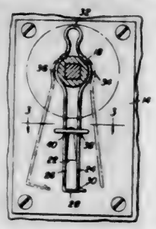
from the group consisting of phenol and resorcinol with at least one mol of an aldehyde taken from the group consisting of formaldehyde, acetaldehyde, butyraldehyde, furfural and benzaldehyde, at a pH of 8–11 and at a temperature of less than 30° C., thereafter reacting the product at a temperature of less than 30° C. with at least one mol of a nitroparaffin having at least one hydrogen atom and one nitro group attached to the same carbon atom and then reducing the nitro groups to amino groups.

2,531,864
SECTIONALLY REMOVABLE AND REPLACEABLE FIREBOX FOR FURNACES
Lauren E. Seeley, New Haven, Conn., assignor to The H. B. Smith Company, Incorporated, Westfield, Mass., a corporation of Massachusetts
Application September 11, 1945, Serial No. 615,591
1 Claim. (Cl. 110—86)



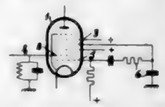
In combination in a heater having conventional heat-absorbing members arranged to define a combustion chamber, brackets secured to the heat-absorbing members within said chamber having upturned hook-shaped ledges, a plurality of thin refractory plates, downturned hook-shaped flanges at the upper edges, said plates being arranged to hang freely from said ledges by interengagement of the downturned hook-shaped edges of the plates therewith and spaced around the interior of the chamber collectively to constitute a fire wall, said plates having open joints between their parallel edges, said walls being spaced inwardly of the heat-absorbing members, and rearwardly extending flanges at the bottom edges of the plates adapted by engagement with the heat-absorbing members to inhibit lateral rearward movement of said plates.

2,531,865
LOCK GUARD
Seth F. Stanley, Glen Ellyn, Ill.
Application April 8, 1949, Serial No. 86,362
2 Claims. (Cl. 70—430)



1. A device for preventing unauthorized movement of a key in a door lock comprising a guard consisting of a pair of flat arms resiliently connected together at one pair of ends and having means formed therein intermediate their ends for retaining said arms on a part of a doorknob assembly, said arms having outwardly opening slots intermediate the ends thereof to hold the key for preventing rotation of a key when the key is disposed in a keyhole, and a locking device releasably holding said arms in a substantially parallel position.

2,531,866
MIXING DETECTOR CIRCUIT FOR DETECTING FREQUENCY-MODULATED OSCILLATIONS
Adrianus Johannes Wilhelmus Marie van Overbeek, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 6, 1948, Serial No. 732
In the Netherlands January 14, 1947
6 Claims. (Cl. 250—27)

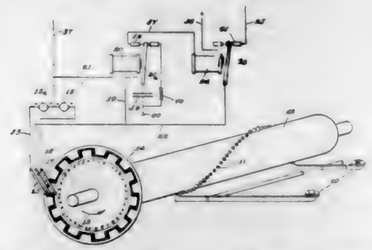


1. A circuit arrangement for demodulating a source of frequency modulated signals comprising, a thermionic discharge tube having a cathode, anode, first and second control grids and a screen electrode between the cathode and the first control grid, means to supply the source of signals to the first control grid-cathode circuit of the said thermionic discharge tube, means to derive a pulsed voltage at the screen electrode cathode circuit of the said thermionic discharge tube proportional to the modulation of the signals, said latter means comprising a source of bias voltage applied to the first control grid of the said thermionic discharge tube having a value at which first control grid current will flow for a time proportional to the modulation of the signal, a time delay network, and means to couple the screen electrode to the second control grid through the said time delay network.

2,531,867
BERRY VINE HOLDER
Lawrence J. Wurdinger, Mount Angel, Oreg.
Application October 11, 1948, Serial No. 53,888
2 Claims. (Cl. 47—47)

1. A vine holder comprising a complementary pair of rigid arcuate holders having laterally extending flanges formed on one of their ends, a spring connected between said flanges for yieldingly retaining the holders in closed relation, offset ends on said flanges, said ends lying in intersecting planes and disposed in overlapping relation, a pivot element transversely disposed through the ends, a rigid supporting stake having a lower end adapted to be driven in the ground and an offset upper end, said pivot element being fastened to the upper end whereby the holders are commonly pivoted on the supporting stake and are biased together by the spring.

2,531,868
TELEGRAPHIC PRINTING SYSTEM AND METHOD
Joseph J. Ackell, Bellaire, and Herbert L. Paulding, Port Washington, N. Y., assignors, by mesne assignments, to Dow Jones & Company, Inc., Wilmington, Del., a corporation of Delaware
Application December 22, 1945, Serial No. 636,588
12 Claims. (Cl. 178—4)



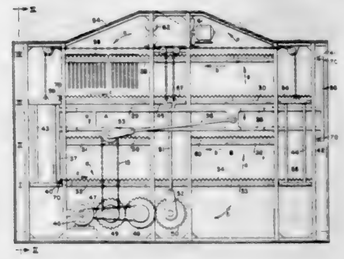
1. In a telegraphic printing system, means for transmitting positive, negative, and open signals in accordance with a desired message, said means including devices adapted to transmit open signals of different duration, a printer comprising a character printing wheel, means for turning said wheel step-by-step to select groups of characters, auxiliary means for turning said wheel after the selection of said group to select a particular character within said group, means for effecting a printing operation from the particularly selected character, and control means responsive to said positive and negative signals for controlling said step-by-step turning means and responsive to said open signals in accordance with the duration thereof for controlling said auxiliary means and said means for effecting a printing operation.

2,531,869
METHOD OF RECOVERING AND PURIFYING STREPTOMYCIN
Harvey E. Alburn and Eric G. Snyder, Philadelphia, Pa., assignors to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 26, 1946, Serial No. 643,747
4 Claims. (Cl. 260—210)

1. The method of enhancing the potency of a crude streptomycin salt contained in dilute solution in a substantially water-free lower alcohol which comprises adding phosphate ion to the solution without substantial addition of water thereto, and selectively precipitating a streptomycin phosphate of enhanced potency from the solution at a pH not above about 4 by adding to the solution a liquid non-solvent for the streptomycin phosphate which is miscible with the lower alcohol.

2,531,870
AUTOMATIC APPARATUS FOR DRYING NOODLES AND SIMILAR DOUGH PRODUCTS BY MEANS OF A CYCLE COMPRISING PROGRESSIVE RECOVERY AND REST PHASES
Lorenzo Bettini, Rome, Italy
Application February 15, 1947, Serial No. 728,900
In Italy July 6, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 6, 1962
9 Claims. (Cl. 34—190)

1. Apparatus for drying noodles and the like, comprising a housing, means for setting up current of heated air along the inside walls of said housing in a substantially closed circuit therealong whereby zones are established which are covered and zones not covered by the air flow, a plurality of conveying rails in a stacked parallel relationship, at least one pair of intermediate stackwise adjacent rails lacking at least one rail portion, a recess being provided thereby, said recess being situated substantially within said zone of no-air-flow, a plurality of individual noodle carriers disposed for movement along said rails, means for effecting a lateral displacement of said carriers alternately in opposite directions on alternate rails, elevators for said carriers disposed for vertical movement adjacent the respective ends of said rails and an elevator disposed in said recess, means for operating said elevators and said lateral displacement means, and means for effecting a given synchronized sequence to the action of said elevators and said displacing means, whereby said carriers are sequentially shifted from zones of air flow into the no flow zone and back into said zones of air flow, in a continuous path.



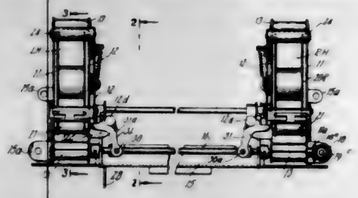
2,531,871
FIFTH WHEEL
Ray A. Braunberger, Chicago, Ill.
Application December 16, 1948, Serial No. 65,577
5 Claims. (Cl. 280—33.05)

1. In a fifth wheel, in combination, an elongated cast trough, raised wall portions on two opposite sides of said trough, horizontal slots in said raised portions, a cover for each end of the trough, one end of each cover being anchored in said slots, the other end anchored to the trough by a single bolt which prevents the cover sliding along the top of the trough out of said slots.

2,531,872
RIBBON FEEDING AND REVERSING MECHANISM FOR TYPEWRITING MACHINES
Chester W. Crumrine, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 18, 1947, Serial No. 792,403
10 Claims. (Cl. 197—162)

1. A ribbon feeding mechanism comprising a pair of ribbon spools, a drive shaft having a friction drive roller for each of said spools, means

associated with each spool for engaging such spool with the associated drive roller, means interconnecting said engaging means and movable between two alternate positions in one of which positions one spool is engaged with and the other disengaged from the corresponding driving roller



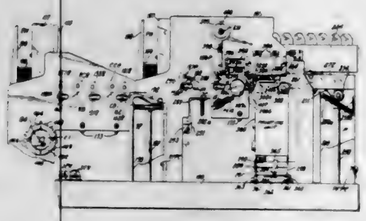
and in the other of which positions these conditions are reversed, means to detect exhaustion of the ribbon, and means controlled by the detection means for shifting the interconnecting means to cause the exhausted spool to be driven by its roller and the other spool to be disconnected from its roller.

2,531,873

RECORD CONTROLLED MACHINE

George F. Daly, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application November 26, 1947, Serial No. 788,150
37 Claims. (Cl. 164—115)



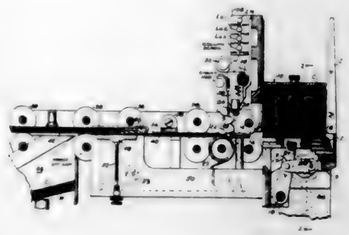
1. In a machine of the class described, means to feed a succession of records each having designations representing a definite starting serial number and a definite number of separate records to be serially number punched, beginning with said starting serial number; a quantity counter controlled by the quantity designations through said sensing means, a serial number counter controlled by the serial number designations through said sensing means, a record perforating mechanism controlled by the sensing means to punch a first detail record with the initial serial number under control of one of the master records, means for placing the record perforating mechanism under control of the serial number counter to serial number punch a succession of detail records beginning with the next highest serial number above said one master record, means to advance said counters a unit for each record punched under control of the serial number counter, means rendered effective by the quantity counter for suppressing punching of detail records with the next higher number when the quantity designated on the master card has been reached, means controlled by the quantity counter to cause the resetting of both counters when the required quantity of records has been serial number punched, and means controlled by the quantity counter to cause a new master card and the first detail card therefor to be fed when the designated quantity of detail cards have been punched.

2,531,874

SORTING APPARATUS

Kenneth W. Dean, Horace S. Beattie, and Ralph E. Page, Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 17, 1945, Serial No. 635,599
8 Claims. (Cl. 209—110)



6. In a sorting machine for sorting perforated record cards bearing alphabetical designations in the form of one or more code perforations arranged in a single card column, a plurality of card-receiving pockets, a circuit-closing sensing brush, means for feeding the cards past said brush in a columnar direction whereby the perforations therein are traversed by the brush successively, means operable each time a perforation is traversed for closing a sensing circuit, means for maintaining each circuit closed until all the perforations in a card column have been traversed, a control card perforated according to a selected designation and designed for passage through the machine, a decoding device including a series of normally open labyrinth circuits, means operable under the control of said sensing circuits for closing one of said labyrinth circuits for each position of a code perforation in a card column, means operable in timed relation to the passage of cards past said brush for energizing the closed circuit, card distributing means operable upon energization of each labyrinth circuit for selectively placing a card in a predetermined pocket, and means when said control card is traversed for causing said sensing circuits to close a different labyrinth circuit for each arrangement of card perforations in a card column.

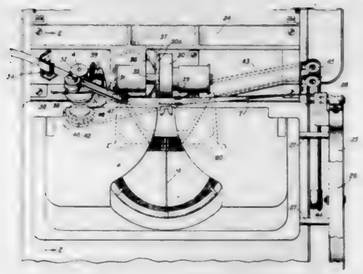
2,531,875

TAPE FEEDING MECHANISM FOR TYPEWRITING MACHINES

Ronald D. Dodge and John L. Petz, Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application October 16, 1946, Serial No. 703,696
4 Claims. (Cl. 197—133)

1. In a typewriter having power-operated typing mechanism including a continually rotating member, a pair of rollers for feeding a record tape to the typing mechanism, means connected to the member and normally tending to rotate said feed rollers to feed said tape, a feed ratchet connected to one of said feed rollers, a single feed controlling dog normally engaging said ratchet to prevent rotation of the feed rollers by the connected means, and means actuated by the typing mechanism for momentarily releasing said dog each time the typing mechanism is operated.

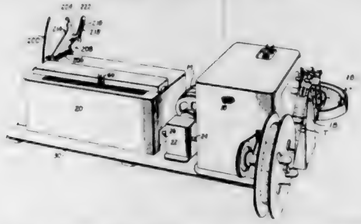


2,531,876

RECORD CONTROLLED ACTUATING MECHANISM FOR EMBOSSING MACHINES

Clyde J. Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application February 26, 1947, Serial No. 731,078
7 Claims. (Cl. 197—20)



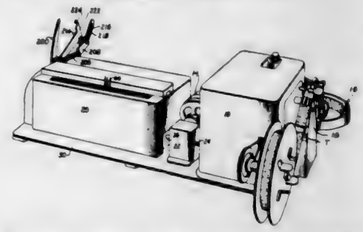
1. The combination with the keyboard of a printing machine or the like having a movable carriage operable upon depression of the print keys thereof to become indexed subsequent to the printing operation, of a control mechanism for operating said keys including a vertically reciprocable actuating bail, a supporting member for the said bail, means for continuously reciprocating said bail, a plurality of depressible seeker levers, means operatively connecting each seeker lever to a respective print key, said seeker levers being movable from elevated positions to lowered positions during which movement they serve to depress their respective keys, said levers also being movable from retracted positions wherein they are out of the path of movement of said bail to advanced positions wherein they are projected into the path of movement of said bail for engagement and depression thereby, means normally urging said levers to their advanced positions, a plurality of shiftable permutation bars common to said levers and normally maintaining the latter in their retracted positions, a restoring bail mounted on said supporting member and having a horizontal component of movement upon oscillation of said supporting member, means on each of said seeker levers positioned in the path of movement of said restoring bail when said lever is in its advanced position for engagement by said latter bail to restore said lever to its retracted position, and record controlled means for selectively shifting said bars to permit selective movement of said levers to their advanced positions.

2,531,877

CARRIAGE RETURN MECHANISM FOR RECORD CONTROLLED EMBOSSING MACHINES

Clyde J. Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application February 26, 1947, Serial No. 731,078. Divided and this application January 7, 1948, Serial No. 1,040
6 Claims. (Cl. 197—66)



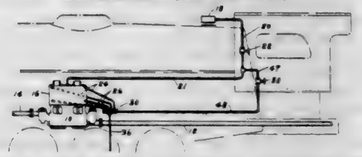
2. In an apparatus of the character described, the combination with a plate-embossing carriage movable in steps in one direction from a fully retracted position to a fully extended position, of a carriage return mechanism for returning the carriage to its retracted position comprising a generally upwardly extending lever pivoted for swinging movement about a horizontal axis, a tiltable creeper link having a creeper element positioned in the path of movement of said lever, means operatively connecting said creeper link and carriage whereby advance movements of the carriage will cause said creeper link to become shifted to cause the creeper element to progressively move from a lowered position substantially in the horizontal plane of the pivotal axis of the lever upwardly along an edge of the lever to a position adjacent the top of the lever, and record controlled means for moving said lever about its axis in one direction to impart movement to said creeper link in such a direction as to restore said carriage to its fully retracted position from any intermediate position or from the fully extended position thereof by a decelerating motion.

2,531,878

CONDENSATE DRAIN SYSTEM FOR STEAM ENGINES

Joseph F. Griffin, Hammond, and Ralph G. Skoog, Crown Point, Ind., assignors to Combustion Engineering-Superheater, Inc., a corporation of Delaware

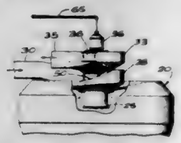
Application January 25, 1947, Serial No. 724,454
11 Claims. (Cl. 105—37)



1. In a locomotive feed water system having a pump driven by a reciprocating steam engine and a steam line provided with a throttle valve in the locomotive cab for regulating the operation of said engine and pump, condensate drain pipes connected into the ends of the cylinders of said engine, a condensate discharge pipe connected to said drain pipes, normally open drain valve means interposed between said drain pipes and said discharge pipe, means operable by steam pressure

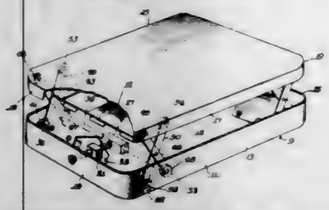
in said line, when said throttle is open to operate said pump, for closing said drain valve means; and manipulative means located in the locomotive cab operative to render said means for closing said drain valve means effective to close said valve means and maintain it closed during operation of said pump.

2,531,879
GASEOUS CURRENT SPRAY DRIER
Joseph M. Hall, Chicago, Ill., assignor to Drying & Concentrating Company, a corporation of Delaware
Application April 16, 1945, Serial No. 588,467
5 Claims. (Cl. 159—4)



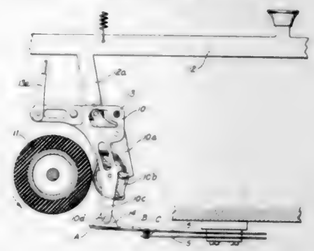
1. In a dehydrating apparatus for producing a powdered product from liquid material by spraying the liquid material into a circulating gaseous drying medium, a dehydrating chamber having inlet and outlet ports for the gaseous drying medium, means to cause the drying medium to circulate through said chamber, and a passage means in the form of an outlet snail to receive the circulated drying medium from said chamber, said snail extending around said outlet port and having a bottom conical wall sloping inward toward said outlet port and a top conical wall also sloping inward to increase the sweeping action of the stream of drying material on said sloping bottom wall, the apex of said top conical wall being above the lower extremity of said outlet port.

2,531,880
ADJUSTABLE TYPEWRITER SUPPORT
Wayland F. Herring, Calumet City, Ill.
Application February 24, 1947, Serial No. 730,481
3 Claims. (Cl. 248—23)



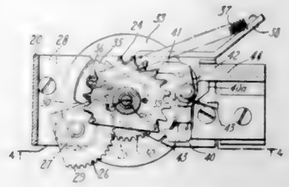
1. An adjustable typewriter support including a base and a relatively movable plate arranged above the base, a central shaft rotatably mounted on the base, means for turning said shaft, said shaft having right and left hand threads thereon, nuts coacting with said threads, hinge members having their outer leaves pivotally connected with the base and having their inner members secured to nuts having threaded engagement with the respective threads on the shaft whereby the hinge members will be actuated to raise and lower the center portions when the shaft is turned, arms extending upwardly from the hinge members and pivotally connected with the movable plate and other arms connected with the oppositely disposed hinge members, rollers on the ends of said last named arms engaging with the plate, and rollers on the ends of the first named arms engaging with the base.

2,531,881
APPARATUS FOR CONTROL OF TYPEWRITERS
Carlton T. Jackson, Conesus, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 10, 1946, Serial No. 702,521
12 Claims. (Cl. 197—5)



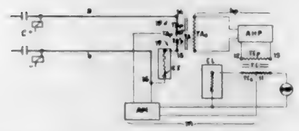
1. A key-controlled power-operated switching device for typewriting and other office machines comprising contact means including a contact operating element having a guiding surface and an abutment, a key controlled power operated device having an oscillatable member, and a polygonal contact actuating element mounted for rotation on said member and having one polygonal side engaging said surface, said element, when said member is oscillated, engaging said abutment and having rotation imparted in consequence of motion of said member while said element engages said abutment, said rotation actuating the contact means.

2,531,882
ELECTROMAGNETIC STEP-BY-STEP SWITCH
Curt I. Johnson and Karl R. Stauss, Vestal, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 27, 1946, Serial No. 712,586
2 Claims. (Cl. 200—105)



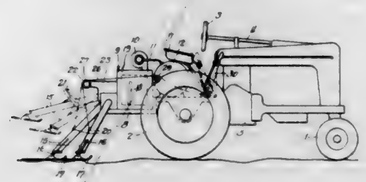
1. A rotary selective switch including a series of fixed contacts spaced in an arcuate path and a movable contact operable to engage the said fixed contacts in a predetermined sequence, a rotary member for carrying the said movable contact, a spring normally biasing the said member to position the movable contact at one extremity of the said series of fixed contacts, an armature coacting and rotating with the said member, an electromagnet adapted to set up magnetic flux in the said armature for rotating it and the said member against the bias of the said spring to move the said fixed contact to the other extremity of the said series each time the electromagnet is energized, and means for releasing the movable contact from the said other extremity under the influence of the said spring for step by step engagement with the said fixed contacts.

2,531,883
SUBSTATION CIRCUIT WITH LOUDSPEAKER
Pierre Kaelin, Lausanne, Switzerland
Application April 16, 1949, Serial No. 87,959
In Switzerland April 21, 1948
1 Claim. (Cl. 179—81)



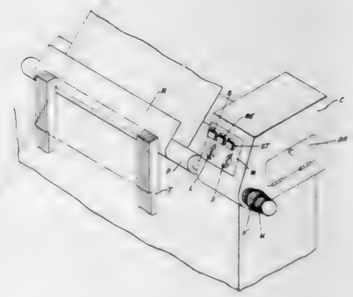
A station of a telephone system connected to a channel for transmitting sound signal currents, said station comprising an electro-acoustic circuit and a loud speaker circuit, a transducer common to both circuits, a transformer, a balancing device having the same impedance as the outgoing transmission channel and connected in series with one of the windings of said transformer across the terminals of said transmission channel, an output amplifier in said electric-acoustic circuit with its output terminals connected across said balancing device and across half of said transformer winding lying in series with said balancing device, an input amplifier in said loud speaker circuit with its input terminals connected across the other winding of said transformer, a second transformer, one side of which is connected to the output terminals of said loud speaker input amplifier, a second balancing device having the same impedance as said transducer and connected in series with the other winding of said second transformer across said transducer, the input terminals of said output amplifier being connected across said second balancing device and across half of the winding of said second transformer lying in series with said second balancing device.

2,531,884
APPARATUS FOR CULTIVATION OF PLANTS
Price C. McLemore, The Oaks, Waugh, Ala.
Application November 26, 1945, Serial No. 630,895
6 Claims. (Cl. 126—271.2)



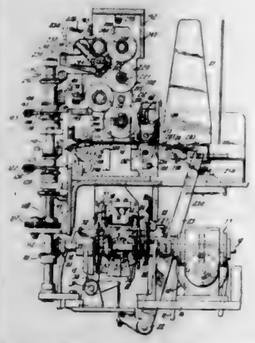
1. In a cultivator comprising a wheeled vehicle adapted to travel along a crop row, the combination of a combustion chamber adapted to be carried by said vehicle for burning fuel, a pair of ducts having discharge nozzles and having connection with said chamber for discharging the products of combustion therefrom through said discharge nozzles, and means connected to said ducts adjacent said discharge nozzle for supporting said ducts to extend laterally at either side of the crop row and having the discharge nozzles thereof directed diagonally downwardly and inwardly toward the crop row to bathe the ground about said crop row with the products of combustion issuing therefrom.

2,531,885
PAPER FEEDING DEVICE
Albert W. Mills and Frank J. Furman, Endicott, and Edward J. Rabenda, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 9, 1945, Serial No. 609,854
72 Claims. (Cl. 235—61.9)



32. In a record controlled machine for printing on a record strip under control of groups of cards, said cards being distinguished by group number indicia, said cards being further distinguished within groups by digit indicia, special distribution indicia, class selection indicia, and heading and detail card distinguishing indicia, sets of upper and lower sensing brushes, means for feeding said cards under said upper brushes and one cycle later under said lower brushes, group control devices cooperating with certain of said brushes to detect changes in group number indicia, minor, intermediate and major group change devices controlled by a digit distributor commutator with connections therefrom to one of said sensing brushes for reading the digit indicia, distributor controls connected to one of said sensing brushes for reading said special indicia, selection controls connected to one of said sensing brushes for reading said class indicia, heading controls connected to one of said sensing brushes for reading heading indicia and detecting changes from heading to detail cards and vice versa, the combination of a control tape with a plurality of columns of indicia for controlling feeding of said strip and predetermining the print receiving positions of said strip, means for feeding said strip, a plurality of means for sensing said tape indicia, means under control of said tape sensing means for controlling operation of said feeding means, a plurality of selecting means each for selecting one of said tape sensing means for control over feeding, and means for placing any one of said selecting means under control of any of the following: upper sensing brushes, lower sensing brushes, minor, intermediate or major group control devices, digit distributor commutator, special distributor controls, class selection controls and heading controls, whereby reading of card indicia and change of machine functions are selective of tape control for determining the extent of strip feeding.

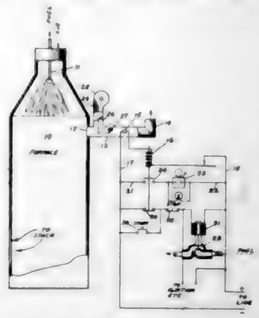
2,531,886
STENCIL CONTROLLED PRINTING MACHINE
Albert W. Mills and Louis J. Herman, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 12, 1946, Serial No. 661,692
6 Claims. (Cl. 101—48)



1. In an address printing machine operable in successive cycles wherein one cycle comprises a feed roll cycle and the following cycle a printing cycle, the combination of means for feeding record materials to be printed separately from a supply hopper to printing position, means for sensing said record material to determine whether it has been fed to and is at printing position, means for feeding printing plates separately from another supply hopper to printing position and in a printing relationship with respect to said record materials, means tending to effect the operation of both of said feeding means in said feed roll cycle and said printing cycle, means for detecting whether a printing plate and record material has been fed out of the related hopper towards printing position, means controlled by said detecting means for preventing the means which effects the operation of said feeding means from being effective to cause the operation of said feeding means during the following printing cycle, means to effect printing from a printing plate on the record material in printing position, and means controlled by the aforesaid sensing and detecting means and operable by an element operable in a feed roll cycle to cause the operation of said printing means in said following printing cycle when both of said feeding means are idle and upon said sensing means sensing that a record material is at printing position and said detecting means has detected that both a record material and printing plate have been fed out of their respective hoppers and are at printing position.

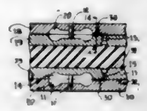
2,531,887
COMBUSTION SAFETY CONTROL SYSTEM
Howard G. Nehrbas, Hammond, Ind., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application December 2, 1947, Serial No. 789,234
1 Claim. (Cl. 158—28)

In combination with a furnace chamber having means for introducing fuel into the latter for combustion therein; a conduit in communication with the interior of said furnace connected thereto immediately adjacent the zone of combustion for withdrawing hot gases of combustion from the furnace; electrical means associated with said furnace for controlling the supply of fuel to said furnace; thermally responsive circuit control means disposed in said conduit for exposure to gases of combustion withdrawn from the furnace and so connected as to cause actuation of said electric means upon failure of combustion therein; blower means connected to said conduit at a point between said furnace and said thermal means for supplying air to said conduit for mixture with the gases flowing therethrough:



damper means for regulating the supply of air to said conduit by said blower means; and other thermally responsive means located in said conduit at a point intermediate said first thermally responsive means and said blower means and controlling said damper means to maintain a predetermined temperature of the mixture of gas and air flowing over said first thermally responsive means.

2,531,888
APPARATUS FOR MOLDING PLASTIC MATERIAL
Maurice E. Nye and Harry E. Nye, Barberton, Ohio, assignors to The Nye Rubber Company, a corporation of Ohio
Application December 4, 1948, Serial No. 63,458
5 Claims. (Cl. 18—30)

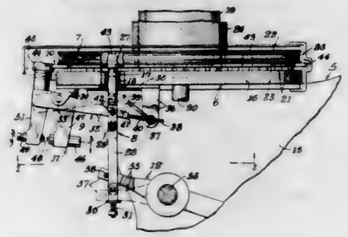


2. Molding apparatus comprising, a first and a second molding couple, each molding couple including a first mold plate section having a contact surface defining a flat plane, said first mold plate section having at least a mold cavity extending inwardly thereof from the said contact surface, and each said molding couple including a second mold plate section having a contact surface defining a flat plane, said second mold plate section having at least a mold cavity extending inwardly thereof from the said contact surface, at least one of said plate sections in each couple having a plurality of groove recesses each radiating outwardly from said cavity therein, said second mold plate having a back surface and having a plurality of filling gates each having a large opening through the second mold plate from the said back surface to a small opening at the contact surface, said contact surfaces of the first and second mold plate sections being removably positioned in close fitting engagement with said mold cavities in registration defining at least a molding chamber, said radiating groove recesses defining feeder tubes from said small openings of the filling gates to said at least a molding chamber, said first and second molding couples being removably positioned together with the said back surfaces of the respective second mold plates movable toward one another to squeeze a sheet of flowable material therebetween and force the material into all said filling gates and feeder tubes simultaneously to fill said at least a chamber in each molding couple, and means to resist escape of said flowable material from between said back surfaces.

2,531,889
WINDSHIELD CLEANER
John R. Oishei, Buffalo, Erwin C. Horton, Hamburg, and Anthony C. Scinta, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application June 2, 1944, Serial No. 538,490
16 Claims. (Cl. 15—250)

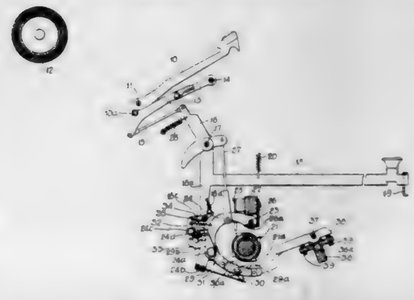
1. A wiper arm having a mounting section, an intermediate section pivotally mounted thereon for swinging toward the surface being wiped, an extensible section movably carried by the intermediate section for adjusting the longitudinal dimension of the arm and having means for attaching a wiper, and spring means operatively engaged with the mounting section and the intermediate section independently of the extensible section and acting to urge the latter section toward such surface for providing the desired pressure in the contact of the wiper therewith, said intermediate section housing said spring means, and said extensible section telescoping within the intermediate section and carrying a longitudinally arranged cam for movement therein, said spring means having a part in the path of said cam to be acted upon thereby by and during adjustment of the extensible section for varying the tension of said spring means.

2,531,890
INDEXING AND LOCK MECHANISM
Otto H. Pearson, Salt Lake City, Utah, assignor to Louis N. Strike, Salt Lake City, Utah
Original application April 2, 1945, Serial No. 586,053. Divided and this application December 12, 1946, Serial No. 715,689
2 Claims. (Cl. 192—139)



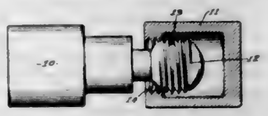
1. Indexing and locking mechanism comprising a fixed base having a guide passage therethrough, a rotary base mounted on and concentric with the fixed base and having a pair of diametrally opposed seats for alternate alignment with said guide passage, a locking member in the guide passage, a pair of spaced brackets depending from the fixed base and radially arranged with respect to the axis of rotation of the rotary base, an over-center toggle extending between and carried by said brackets and including a lever connected to the locking member, a roller carried by one end of said lever, said toggle, in one position thereof, holding said locking member withdrawn from engagement with the seats of the rotary base and also holding said roller in close proximity to the peripheral edge of said rotary base, and a pair of diametrally opposite cam lugs on the periphery of said rotary base and oriented with the seats therein to alternately engage said roller and move the lever thereof to break the toggle and project the locking member into said seats alternately.

2,531,891
JAM-FREE POWER MECHANISM FOR TYPEWRITERS
Richard V. Reppert, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 18, 1947, Serial No. 792,535
10 Claims. (Cl. 197—17)



1. A power mechanism comprising a toothed main actuator, a lever having a connection to a device to be operated, a coupling member movably mounted on said lever, a toothed element rotatably mounted on said coupling member, yielding means normally restraining rotation of the toothed element and means to move said member to engage said toothed element with said toothed actuator, said yielding means being operative, when movement of said lever is blocked, to permit said toothed element to rotate.

2,531,892
BOLT AND NUT FIXTURE
Richard T. Reese, North Hollywood, Calif.
Application January 27, 1947, Serial No. 724,635
3 Claims. (Cl. 287—21)

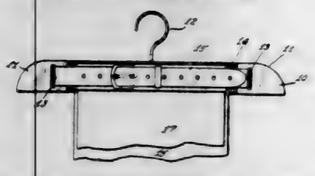


1. A threaded connection including: a first part provided with a spheroidal screw threaded part; a sleeve provided with a recess and an internally threaded annular flange at the end thereof adapted to mesh with the screw thread of said first part, the screw threads on the parts being arranged so that they are initially in mesh when the parts are screwed together during the initial movement of the spheroidal part into the sleeve, but pass out of mesh on further movement of the spheroidal part into the sleeve, though in abutment with each other to prevent displacement of the parts by an axially applied force.

2,531,893
HYPODERMIC SYRINGE
Zbislaw M. Roehr, New York, N. Y., assignor to Mizzy, Inc., New York, N. Y., a corporation of New York
Application October 25, 1947, Serial No. 782,058
6 Claims. (Cl. 128—215)

1. A surgical syringe, having a barrel for accommodating a cartridge, a hypodermic needle bearing removable cap having a locking bayonet slot connection to said barrel and a resilient needle penetrable closure interposed between the cartridge end and the cap, tending during use of the syringe to push the cap outward and thereby effectively to lock the bayonet slot.

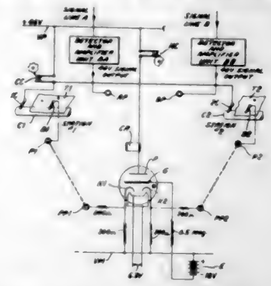
2,531,894
GARMENT HANGER
Ludwig Samuel, Indianapolis, Ind.
Application June 27, 1946, Serial No. 679,779
3 Claims. (Cl. 223—96)



1. A garment hanger, comprising a single substantially straight bar of a length sufficient to support by the shoulders a coat-like garment and of substantially greater width than thickness, the top outer corners of such bar being rounded, means adjacent the middle of the bar and connected thereto for hanging the bar on edge in a horizontal position, a slot adjacent each end of the bar, opening through its side-faces, and having a generally vertical inner edge of a height adapted to receive a flat strap, the bar between said slots being substantially rigid and presenting substantially straight side faces of considerable vertical width, a frictional facing on each side face of the bar between the slots, whereby the bar is adapted to receive a strap of the character of a trousers belt extending through its slots and over its frictionally-faced side faces, and will act as a strut within a strap so received, to secure for depending support and hold flat a garment received between a frictional facing of the bar and such strap.

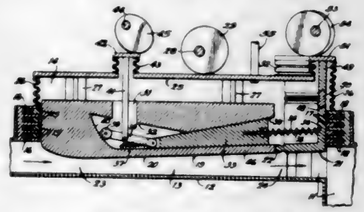
2,531,895
ELECTRICAL SYSTEM
Orville B. Shafer, Owego, and John J. Sullivan, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 9, 1945, Serial No. 592,778
3 Claims. (Cl. 315—167)

1. A gaseous discharge tube containing a low voltage gas, a single plate, a blocking grid, and a pair of similar cathodes individually connectable to separate sources of potential and symmetrically disposed with respect to the plate and rigidly arranged in parallel spaced relation,



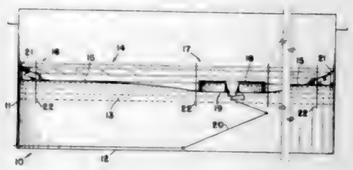
said cathodes being interchangeably effective, either cathode when at a suitable potential above the other cathode serving as a starter anode to ionize the gas for conducting electrons from the latter cathode to said plate.

2,531,896
VARIABLE AREA NOZZLE
Louis E. Telbizoff, Monroe, Mich.
Application October 12, 1946, Serial No. 702,912
6 Claims. (Cl. 138—45)



1. A variable area nozzle comprising a casing providing a fluid passage and a valve chamber communicating with the passage, a segmental valve body slidably mounted in said casing for movement into said passage to vary the area thereof, said body having at least one end portion thereof movable relative to the other portion, means for moving said body as a whole, and means for moving the one end portion of the valve body independently of the other.

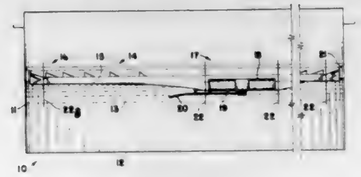
2,531,897
METHOD OF MAKING FLOATING ROOFS
Reign C. Ulm, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware
Application October 21, 1949, Serial No. 122,639
3 Claims. (Cl. 29—148.2)



1. A method of constructing a floating roof for volatile liquid, comprising the steps of installing a set of rigid but vertically adjustable

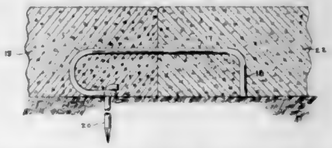
support members upon a substantially circular tank bottom previously prepared, said support members being distributed over the area of the bottom and having well defined upper edges; vertically adjusting said support members so that said edges lie in predetermined, uniform, slightly inclined, substantially flat construction curves running radially of the bottom, outwardly-upwardly throughout, with upward curvature over a part of the radius between the inner and outer parts thereof; supporting metal plates for the roof on said edges; supporting rigid templates, running crosswise of said support members and having undersides formed in accordance with said construction curves, on upper portions of the metal plates overlying such edges; raising other portions of the metal plates, between such edges, to the undersides of the templates, whereby their tendency to sag is counteracted and said construction curves are impressed on the plates; then joining the plates together endwise and thereby completing the deck of the floating roof; providing the deck with the necessary associated parts such as an upstanding rim, central downwardly loading means, permanent support means, sealing means and draining means; and removing said templates and support members.

2,531,898
FLOATING ROOF WITH FLEXIBLE DECK AND CENTRAL WEIGHTS
Reign C. Ulm, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind., a corporation of Delaware
Application September 7, 1950, Serial No. 183,612
5 Claims. (Cl. 220—26)



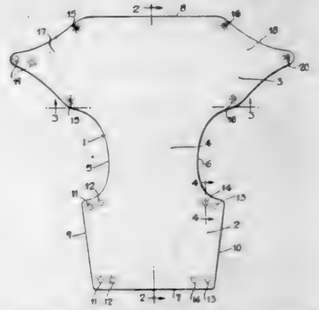
1. In liquid storage apparatus, a substantially centrally drained floating roof having the entire underside immersed in the stored liquid and the deck portion thereof shaped by contour-controlling ballast weight means installed in a generally central, minor but substantial part of the area of the floating roof; comprising an outer, relatively narrow, upstanding, rigid, compression-resisting rim; a single, circular, flexible membrane deck, substantially unreenforced and unobstructed at least throughout the area between the rim and the ballast weight, having its outer part secured to and reenforced by the bottom part of the rim, and comprising substantially the entire area of the floating roof and forming a flat, smooth solid of rotation all vertical cross-sectional contours of which substantially coincide with a curve running outwardly-upwardly throughout the radial distance from the center to the periphery of the deck, with continuous upward curvature between said generally central part and said rim; and ballast weight means distributed over and limited to said generally central part and constituting a sufficient part of the total weight of the floating roof for the purpose of immersing the entire underside of the roof in the stored liquid and cooperating with the stored liquid in shaping the membrance deck into said smooth solid of rotation.

2,531,899
LONGITUDINAL ROAD JOINT SUPPORT
Elmer J. Webb, Newark, N. Y.
Application October 2, 1947, Serial No. 777,485
1 Claim. (Cl. 94—8)



A longitudinal rod joint supporting member for supporting adjacent concrete slabs comprising an integral rodlike member formed with a V shaped base portion, upright portions extending upwardly from each end of the base and merging with intermediate portions extending horizontally in parallel spaced apart relation from said uprights to the inner surface of the slab side form, said base portion being adapted to be staked on the road sub-grade with the apex of the base positioned intermediate said uprights and the side form, said member having free portions extending in opposite directions along the inner surface of the form and terminating in depending ends resting on the subgrade, said free portions being encased in an envelope of frangible material and being adapted to be swung outwardly upon removal of the side form in embedment in the next adjacent slab.

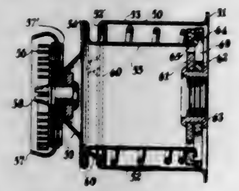
2,531,900
BABY PANTS
Fred W. Andrews, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware
Application July 21, 1948, Serial No. 39,993
4 Claims. (Cl. 128—287)



1. Wrap-around baby pants comprising, a thin highly elastic sheet-like rubber latex member having an imperforate central body area and fashioned to be folded into pants form, said member comprising front and back panels whose outer ends constitute waist encircling portions and an intermediate crotch portion whose opposite sides constitute leg encircling portions, said front panel being provided with outwardly facing snap fastening elements spaced apart laterally at the respective waist and leg encircling portions thereof, said back panel having oppositely disposed flaps extending outwardly beyond said fastening elements carried by said front panel a combined distance greater than the lateral space between said fastening elements, said flaps being provided with inwardly facing snap fastening elements spaced apart laterally a distance

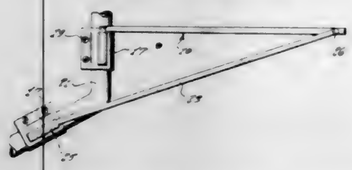
greater than the width of said front panel so as to be positioned over the lateral edges of said front panel when in folded position and to cooperatively engage said fastening elements on said front panels, thereby to secure the pants on an infant, and said flaps being provided with additional cooperating snap fastening elements adjacent their respective outer ends disposed a substantial distance below the upper edge of said back panel for securing together said flaps over said front panel.

2,531,901
ELECTRIC CIGAR LIGHTER
Philip E. Ashton, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a corporation of Connecticut
Application July 25, 1946, Serial No. 686,188
11 Claims. (Cl. 219—32)



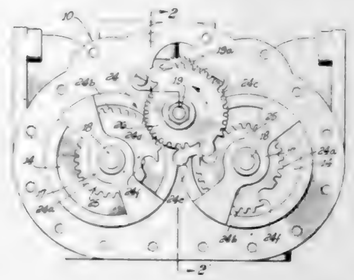
6. An electric lighter plug comprising an outer tubular metallic member slidably engageable in a socket and having an inturned flange with spaced projecting lugs, an inner tubular metallic member slidable in the outer member and having an outwardly extending flange abutting against said lugs, an igniter member carried by said inner member, a handle supporting bushing, an insulating washer carried by said bushing and connected to the inner tubular member and slidable within and in contact with the outer member and a spring surrounding the inner member and compressed between said inturned flange and said washer.

2,531,902
DETACHABLE BICYCLE CARRIER-UNIVERSAL DETACHABLE TRAY
Constantine W. Baron, Oakland, N. J.
Application February 19, 1949, Serial No. 77,425
1 Claim. (Cl. 224—32)



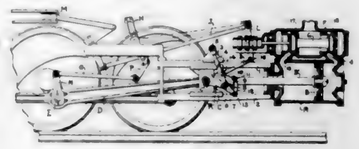
A bicycle carrier, tray or the like adapted to be releasably secured to a support comprising a main horizontally extending part having inwardly bent ends, vertically extending attaching portions pivotally connected to the inwardly bent ends and adapted to be fitted into openings of a support, and brace members pivotally connected to the frame and having portions adapted to extend into openings of a support, and sleeve brackets having openings on the opposite sides of the same and adapted to be clamped to a support to receive the depending portions of the main frame and the ends of the braces.

2,531,903
TWO-CYLINDER ROTARY MOTOR
William F. Berck, Oakland, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a corporation of California
Application September 30, 1944, Serial No. 556,638
8 Claims. (Cl. 121—49)



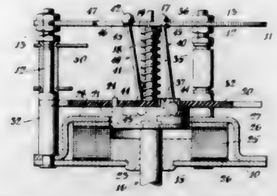
1. A rotary meter comprising a casing having a pair of intercommunicating parallel annular metering chambers, said casing having an inlet port in communication with one chamber and an outlet port communicating with the other chamber, a pair of vanes mounted in each chamber, said vanes being mounted to traverse said chambers continuously in one direction, interconnecting gear means between the four vanes relatively timing the same at ninety degrees apart in relation to a fiducial line and causing each vane to operate through a complete cycle composed of a plurality of stages of relatively different speeds, said stages including a metering stage of a constant highest speed, a speed deceleration stage commencing at the end of the metering stage, a constant lowest speed stage commencing at the end of the deceleration stage, and an acceleration stage commencing at the end of the constant lowest speed stage and terminating at the commencement of the highest speed stage.

2,531,904
ENGINE VALVE MECHANISM-TRANSMISSION ACTUATED RETARDING AND ACCELERATING LINKAGE
Clyde F. Berry, Manchester, N. H.
Application August 1, 1947, Serial No. 765,606
11 Claims. (Cl. 121—163)



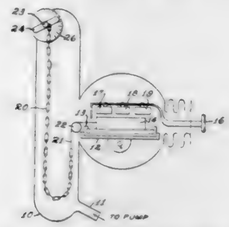
1. In an engine valve mechanism, the combination with a slide-valve and its actuating lever, of an arm journalled on the engine driving crosshead, a pendulous lever pivoted at a fixed point, said crosshead arm and pendulous lever being hinged together at a point intermediate their length, and a lever and link system coupled between the ends of said crosshead arm and pendulous lever and said valve actuating lever, whereby the movement of the valve actuating lever is modified throughout the engine strokes.

2,531,905
ROTARY SOLENOID
Glenn W. Carpenter, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application August 4, 1947, Serial No. 765,907
9 Claims. (Cl. 74—1)



1. In a rotary solenoid, a stationary support, a shaft journaled in said support and adapted for axial movement with respect thereto, means rotatable with said shaft including a paramagnetic armature member and a plate, stop means for establishing first and second limiting positions for the angular movement of said shaft, a link interconnecting said support and said plate, said link being radially offset from said shaft, and a coil for attracting said armature member to effect axial movement of said shaft thereby to move said link and cause rotation of said plate between said first angular position and said second angular position.

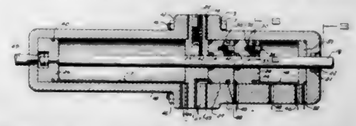
2,531,906
FRICTION MEASURING DEVICE
Schuyler M. Christian, Decatur, Ga., assignor to Radio Corporation of America, a corporation of Delaware
Application April 5, 1946, Serial No. 659,745
7 Claims. (Cl. 73—9)



1. The combination of an evacuated enclosure, a track mounted within said enclosure, a carriage movable along said track to bring a plurality of samples successively to a test station along said track, means within said enclosure for loading said samples at said station, means coupled to said loading means inside said enclosure for applying a tractive force between said loading means and a sample at said test station and including a rotatable armature, and means including a rotatable magnet external to said enclosure and magnetically coupled to said armature for controlling the application of said tractive force.

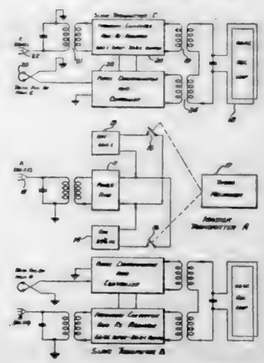
2,531,907
PRESSURE FLUID SERVOMOTOR
Lewis E. Daubenmeyer, Dearborn, Mich.
Application February 1, 1946, Serial No. 644,815
9 Claims. (Cl. 121—38)

1. An hydraulic motor comprising a pair of cylinders, a piston rod extending through said pair of cylinders, a piston fixed to said piston rod and moveable in one of said cylinders, a moveable piston slidably mounted on said piston rod and moveable in the other of said cylinders, a lock for connecting said moveable piston and said piston rod for operation as a unit and including a locking dog having a wedging friction exerting member carried by said moveable piston and engaging the surface of said piston rod, means for releasing said lock to permit movement of said piston rod relative to said piston and



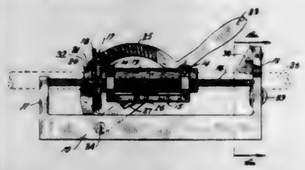
including a moveable member contacting said wedging friction exerting member to increase its frictional engagement with said piston rod when moved in one direction during the power stroke of said moveable piston and to release when the frictional engagement with said piston rod when moved in the opposite direction at the end of the power stroke of said moveable piston, and an hydraulic circuit for supplying hydraulic pressure fluid selectively to said fixed piston and to said moveable piston.

2,531,908
RADIO NAVIGATIONAL AID
Alexis René Grenfell, Stanmore, England, assignor to The Decca Record Company Limited, London, England, a corporation of Great Britain
Application July 28, 1947, Serial No. 764,155
In Great Britain August 12, 1946
7 Claims. (Cl. 343—105)



1. In a radio frequency navigational aid, the combination of: radio frequency transmitting means for radiating signals alternately establishing in repeating time cycles a normal and an alternative radio frequency field pattern of equi-phase displacement field contours, said normal pattern defining a given number of lanes and said alternative pattern defining a different number of lanes, said patterns being identically oriented in space; radio frequency receiving means for receiving said signals; two phase indicators operatively connected to said receiving means, one for said normal pattern and one for said alternative pattern; and switching means for rendering said indicators alternately operable in synchronism with said repeating time cycles.

2,531,909
PIPE BORING MACHINE
Brada Guyer, Denver, Colo.
Application May 21, 1946, Serial No. 671,363
3 Claims. (Cl. 255—20)



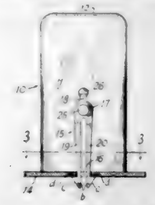
2. A pipe forcing jack comprising: a base frame; end members arising from said frame; parallel bars extending between said end members; a carriage slidably mounted on said bars; a tubular member rotatably mounted on said carriage for receiving a pipe; clutching means in said tubular member for engaging said pipe; a lever pivotally mounted on said base frame; a pin projecting from said carriage into an elongated slot in said lever to move the carriage forwardly with each forward movement of said lever; an arcuate toothed rack projecting from said lever; and an annular toothed gear mounted on said tubular member and meshing with said rack so that each forward movement of said lever will simultaneously rotate said gear and move said carriage forwardly relative to the pivot point of said lever, the teeth of said arcuate rack aligning with the axis of said tubular member at their point of contact with the teeth of said gear and being sufficiently long to remain in mesh with said gear teeth at all relative positions between said carriage and the pivot point of said lever.

2,531,910
ALUMINUM THALLIUM BEARING
Franz R. Hensel and Earl I. Larsen, Indianapolis, Ind., assignors to P. R. Mallory & Co. Inc., Indianapolis, Ind., a corporation of Delaware
Application November 23, 1945, Serial No. 630,354
10 Claims. (Cl. 75—138)

1. A bearing formed of a cast alloy composed of about 0.1 to 10 percent thallium by weight and the balance substantially all aluminum, said bearing being characterized by low coefficient of friction and high resistance to seizure.

2,531,911
SHIELD CAN WITH SPRING ATTACHMENT MEANS
Edward L. Johnson, South Orange, N. J., assignor to The Painut Company, Irvington, N. J., a corporation of New Jersey
Application December 15, 1945, Serial No. 635,392
8 Claims. (Cl. 174—35)

1. In a shield-can and chassis-plate organization, a shield can, a chassis plate, a pair of elongated fasteners attached to opposite sides of the can, the fasteners extending beyond the mouth of the can and being provided with terminal latching formations to project through holes in the chassis plate and latch thereto, said terminal formations being initially too close to the mouth of the can to latch to the plate, and the fasteners having springy portions which are bowed outwardly from the sides of the can, said outwardly bowed portions being deformable toward the can by thumb and finger pressure to thereby extend the terminal formations to a sufficient distance from the mouth of the can to latch to the



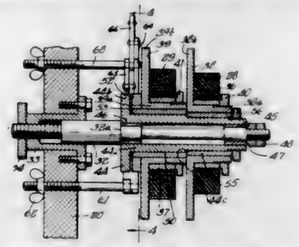
plate, and said outwardly bowed portions, upon completion of the assembly, exerting spring pressures which biases the mouth of the can against the plate.

2,531,912
EATING DOLL
Edgar Kahn, New York, N. Y.
Application May 28, 1949, Serial No. 96,109
1 Claim. (Cl. 46—45)

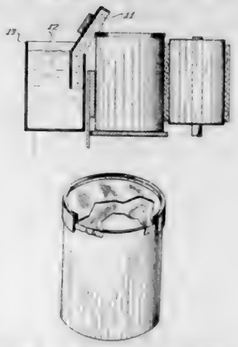
A doll construction comprising a head having a mouth opening, and a jaw pivotally connected to the interior of the head and workable in said mouth opening, said jaw having a magnet embedded in the upper part thereof and adapted to be attracted to a metal spoon or similar article when passed into the upper part of the mouth opening whereby to simulate a swallowing action or the taking of food, and a depending tube closed at its bottom end and releasably secured to the head for receiving the liquid or solid material passed through the mouth opening, and a ring having a doll body connected to it, the doll body having a pocket for receiving the closed tube connected with the head, said ring having an inwardly extending flange, said head having an outwardly extending flange adapted to be passed through the flange of the ring by exerting action whereby said head, when within the ring, will have looseness and will be retained against outward displacement.

2,531,913
BRAKE FOR CAPACITOR WINDING MACHINES
Simon Kaim, Chicago, Ill., assignor to John E. Fast & Co., Chicago, Ill., a corporation of Illinois
Application May 27, 1948, Serial No. 29,467
3 Claims. (Cl. 242—75)

1. A multiple reel and brake structure comprising: a spindle, a support for one end of said spindle, a sleeve rotatably mounted on said spindle, the end portion of said sleeve nearest said support being adapted to function as a brake drum, a first reel co-axial with and rotatably mounted on said sleeve and having a brake drum at the end thereof nearest said support, a second reel co-axial with said sleeve and normally secured thereto for rotation therewith, said second reel being positioned adjacent said first reel at the side thereof remote from said brake drums, both said reels being withdrawable from said sleeve, and means normally operative to secure said reels on said sleeve.



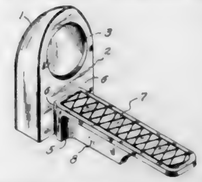
2,531,914
METHOD AND MECHANISM FOR CLOSING FIBER CONTAINERS WITH A LINED CLOSURE
Eric W. Lager, Palos Park, James J. Prohaska, Palos Heights, and Heinrich E. Haase, Chicago, Ill., assignors, by mesne assignments, to Swift & Company, a corporation of Illinois
Application February 1, 1945, Serial No. 575,682
22 Claims. (Cl. 226—80)



19. A method of closing a container by placing a liner over the open end and applying a cap thereto comprising the steps of producing a tacky bead around the periphery of an open end of the container, contacting the open end having the tacky bead produced thereon with a liner to cause the liner to adhere to the open end of the container, and thereafter applying a cap and wiping the liner against the wall of the container by driving the container and cap together relatively.

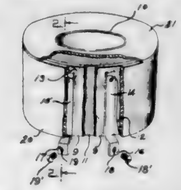
2,531,915
COMBINED BIRD FEEDING RECEPTACLE AND PERCH
James E. Maly, Cleveland, Ohio, assignor of one-half to Frank G. Voldrich, Cleveland, Ohio
Application March 16, 1948, Serial No. 15,126
4 Claims. (Cl. 119—18)

1. A device of the class described comprising a receptacle including a front wall having an opening in the upper portion thereof, a projection extending from said wall in vertical alignment with, and spaced from, said opening and being located between the opening and the bottom plane of the receptacle, said projection having lateral edges provided with parallel vertical grooves for the reception of adjacent wires of a bird cage, and



an elongated perch having a substantially flat top surface, and being of a width substantially equal to that of said projection, extending from the top of the projection in substantially right-angular relation to the plane of said wall with one of its ends in abutting relation to the wall, all of the foregoing elements being integral parts of a rigid structure.

2,531,916
COIL CONSTRUCTION
Norman McKinney, Elkins Park, Pa., assignor of one-half to Joseph F. Ebert, doing business as Ebert Engineering and Manufacturing Company
Application August 22, 1946, Serial No. 692,334
4 Claims. (Cl. 175—21)

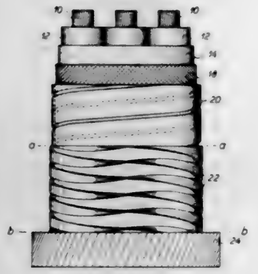


1. A magnetic coil construction comprising a central insulating member, a winding of magnet wire surrounding said central insulating member, said magnet wire having insulation between the turns thereof to insulate one turn from another, said magnet wire having two ends, a covering of insulating material surrounding the magnet wire and insulation, terminal pieces of conductive material connected respectively to the ends of the magnet wire and resting against the insulating covering and spaced from each other and a layer of insulating threads surrounding and drawn over the insulating covering and over the terminal pieces to hold the insulating covering and the terminal pieces in place upon the magnetic winding and the terminal pieces spaced from one another.

2,531,917
EXPANSIBLE SHEATH ELECTRIC POWER CABLE
Johannes Sørensen Møllerhøj, Charlottenlund, and Svend Stigsgaard, Copenhagen, Denmark
Application November 21, 1946, Serial No. 711,426
In Denmark October 17, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 17, 1965
16 Claims. (Cl. 174—13)

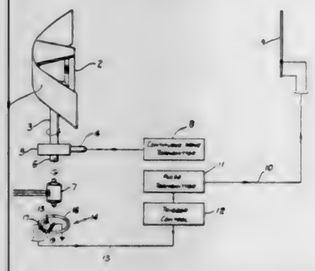
1. An electric power cable comprising an insulated conductor construction, a sheath sur-

rounding said conductor construction and consisting of impermeable material and the cross-section of which circumferentially is composed of at least one strongly curved part and at least one less curved substantially flat part providing a diaphragm member, and an outer resilient winding which supports said diaphragm member in



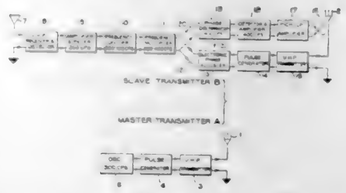
such manner that the latter member may yield elastically according to differences in the pressure at the inner side of the sheath, said winding comprising at least one winding member having varying rigidity along the circumference of the sheath, the rigidity being greatest at the diaphragm member.

2,531,918
RADIO DIRECTION INDICATING DEVICE
William J. O'Brien, London, England, assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application January 20, 1947, Serial No. 723,177
In Great Britain January 31, 1946
3 Claims. (Cl. 343—106)



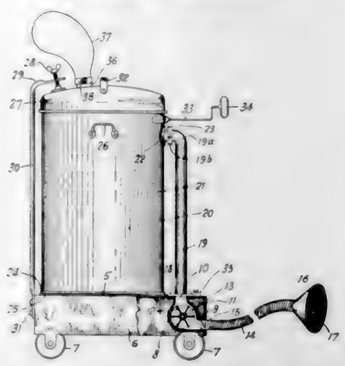
1. In a radio direction indicating apparatus, the combination of: unidirectional transmitting means for producing a concentrated beam of radio frequency energy of small angular scope in a horizontal plane; means for rotating said beam at substantially constant speed about an upright axis; an omnidirectional radiating means; means for radiating from said omnidirectional means a short duration pulse of radio frequency energy coincidentally with the arrival of said beam at a predetermined orientation; and means for radiating from said omnidirectional means another pulse immediately adjacent in time to said first mentioned pulse to thereby identify and distinguish said pulses from said beam.

2,531,919
RADIO-FREQUENCY NAVIGATIONAL AID
William J. O'Brien, London, England, assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application February 4, 1947, Serial No. 726,249
In Great Britain February 6, 1946
8 Claims. (Cl. 343—105)



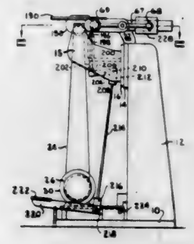
1. In a radio frequency navigational aid, the combination of: a pair of very high radio frequency antennae spaced from each other; means for successively radiating from one of said antennae short pulses of very high frequency energy at a given fixed pulse repetition rate; means for successively radiating from the other of said antennae short pulses of very high frequency energy at a pulse repetition rate different than but harmonically related to said given rate; and means for maintaining a fixed multiple phase relation between said pulse repetition rates.

2,531,920
SUCTION ASH COLLECTOR
Martha Raminger, Brooklyn, N. Y.
Application December 18, 1945, Serial No. 635,725
2 Claims. (Cl. 302—17)



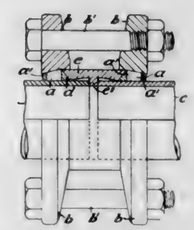
1. An ash collecting means, comprising a truck and ground wheels for supporting the same, said truck having a platform, a fan casing supported on the truck below said platform and having a suction intake disposed horizontally and a discharge outlet disposed vertically through the platform, an electrically driven fan mounted to rotate in said casing to maintain a suctional pull through the intake, a receptacle mounted on the truck platform and provided with an asbestos bottom, a vertical transfer conduit on said truck platform spaced from and extending parallel to said receptacle, said conduit having its lower end connected with the discharge outlet of the fan casing, means connecting the upper end of the transfer conduit to the receptacle, and a cover for the receptacle having an air outlet.

2,531,921
SURFACE FINISHING FIXTURE
Russel A. Schultz, Detroit, Mich., assignor to Robbins Engineering Company, Detroit, Mich., a corporation of Michigan
Application December 26, 1947, Serial No. 793,895
8 Claims. (Cl. 51—144)



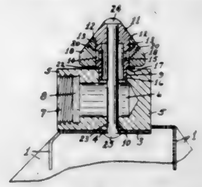
1. In a surface finishing fixture adapted for varying the grinding pressure on a workpiece according to the thickness thereof, the combination of an abrasive member for grinding a workpiece in contact therewith, a rotatable and axially movable workpiece holding spindle mounted for yieldingly moving the axis of rotation thereof toward said abrasive member and for traversing a workpiece across said abrasive member by coordinated axial and rotatable movements, pressure relief cam means operatively coupled with said spindle for selectively moving the latter away from said abrasive member upon rotation of said spindle, and cam means for indexing said pressure relief cam means relative to the angular position of said spindle upon axial movement of the latter.

2,531,922
PIPE COUPLING AND THE LIKE
Lewis Mervyn Cecil Seamark, Lyme Regis, England, assignor to Pidco Limited, London, England, a British company
Application February 5, 1946, Serial No. 645,620
In Great Britain February 8, 1945
10 Claims. (Cl. 285—193)



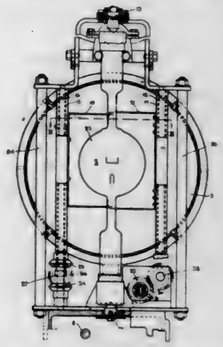
1. A pipe coupling, comprising contractible metal rings, each ring having an internal cylindrical face and an external conical face, a circular series of transversely disposed radial slots extending across the said ring from one end face of the ring to a position short of the opposite end face, packing interposed upon or between the pipe lengths, and means for the application of pressure on the ring to cause the ends of the pipe length to be gripped by the contractible metal ring and pressure-tight joints to be formed at the interposed ring of packing.

2,531,923
HYDRO JET SPRINKLER
Frederick H. Smith, Richmond, Ind.
Application January 27, 1947, Serial No. 724,555
4 Claims. (Cl. 299—69)



1. In a sprinkler device, a base member, a body member mounted on the base member, a bore formed in said body member, a bearing member extending into the body member, a bore formed in the bearing member and communicating with the bore of the body member, a recessed channel formed around the bearing member, a plurality of apertures formed through the wall of the bearing member and located in the recessed channel, a revolving head member positioned on the bearing member, passages formed through the wall of the head member at oblique angles rearwardly with relation to the direction of rotation thereof, with the inner ends of the passages communicating with the recessed channel of the bearing member, a rivet securing the bearing member to the body member and to the base member and extending therethrough, and with the angularity of the passages with relation to the head member providing means rotating the head member upon passage of water therethrough under pressure.

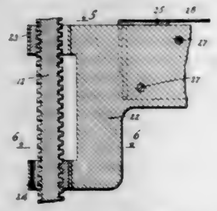
2,531,924
SIMMERING SHUTTER FOR HIGH-PRESSURE METAL VAPOR LAMPS
John Bernard Score Smyth, London, England, assignor to The General Electric Company, Limited, London, England
Application August 7, 1948, Serial No. 43,049
In Great Britain August 11, 1947
8 Claims. (Cl. 240—11.4)



1. A lantern including an electric discharge lamp of the high pressure metal vapour type and a simmering arrangement for said lamp comprising a pair of arcuate shutters, means pivotally supporting said shutters for rotation about a fixed axis disposed to one side of the lamp, a second pair of arcuate shutters, means pivotally supporting said second pair of shut-

ters for rotation about a second fixed axis parallel to said first-mentioned axis, and means to pivot the two shutters of each pair in opposite directions about their pivot axes into extreme closed and open positions, the shutters in the closed position enclosing at least the part of the lamp in which the electric discharge occurs and in the open position exposing said part of the lamp.

2,531,925
SCREW MOUNTING FOR PLATFORMS OR TRAYS
Harry Taylor, Victor E. Hunt, and Reuben Melcher, Los Angeles, Calif.
Application July 26, 1948, Serial No. 40,768
1 Claim. (Cl. 74—424.8)

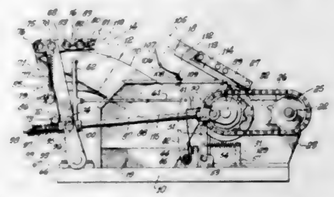


In combination with a platform to be horizontally supported by one side with its other side free, a vertical screw for supporting said platform, said screw being supported at its lower and upper ends, with means for turning said screw manually in either direction, of a platform supporting member having two vertically spaced ring portions to receive said screw therethrough and not threaded, and two half bushings, internally threaded to mesh with said supporting screw, one of said bushings being inserted in the upper ring portion on the outer side of said screw and the other of said bushings being inserted in the lower ring portion on the inner side thereof, whereby said bushings engage said screw on opposite sides to take the pressure caused by the tilting movement of said spaced ring portions, in the manner illustrated.

2,531,926
PRODUCTION OF TITANIUM DIOXIDE PIGMENT FROM HIGH TITANIUM DIOXIDE CONTENT SLAGS
Seldon P. Todd, Amherst, Myron L. Myers, Lynchburg, and Winfred J. Cauwenberg, Piney River, Va., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 15, 1949, Serial No. 76,662
7 Claims. (Cl. 23—202)

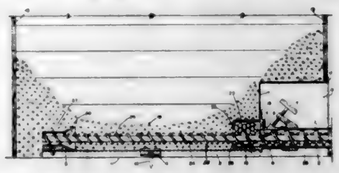
6. A method of producing titanium dioxide pigment from a slag containing at least about 65% of titanium oxide, from about 1% to about 16% of iron expressed as FeO, and from about 30% to about 5% of flux residues which comprises comminuting said slag to a particle size distribution such that substantially all thereof is smaller than 70–74 microns in average diameter, at least 92% is not more than about 44 microns in average diameter, and not more than about 25–30% is smaller than 10 microns in average diameter, mixing said comminuted slag with 85%–98% sulfuric acid, the amount of acid employed being equivalent to about 1.5 parts to about 2.2 parts by weight of 100% H_2SO_4 for each part by weight of TiO_2 plus that necessary to react with the other acid-reactive constituents contained in the slag, heating the mixture to initiate reaction between the acid and slag, reacting the acid and slag to solubilize the titanium content of the slag, slurrying the acid-reacted material with sufficient water to obtain an aqueous mixture having a specific gravity of from about 1.4 to about 1.55, adding to this aqueous mixture from about 0.02% to about 0.07% of animal glue and from about 0.004% to about 0.01% of antimony oxide dissolved in a 10% aqueous sodium sulfide solution, both additions being based on the weight of the aqueous slurry, allowing the mixture to stand until the insoluble material therein has been flocculated, filtering the mixture, thereafter heating the clarified solution to a boil and boiling it until the titanium content has precipitated in the form of hydrous titanium dioxide, and then calcining the hydrolysate to obtain a titanium pigment.

2,531,927
MACHINE FOR HALVING AND PITTING DRUPACEOUS FRUIT
Laurence W. Waters, Ontario, Calif., assignor to Benton Ballou Company, Ltd., Ontario, Calif., a corporation of California
Application February 6, 1945, Serial No. 576,467
8 Claims. (Cl. 146—28)



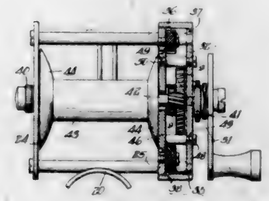
3. A fruit pitting machine adapted to pit freestone peaches and the like, comprising stationary pitting means including a longitudinally extended blade having a knife edge and a socketed blade having a concave knife edge disposed in the plane of and at one end of said longitudinal blade; an impaling element supported for movement adjacent and parallel to said longitudinal knife edge; spreader plates disposed on opposite sides of and adjacent to said socketed blade; means pivotally supporting said spreader plates for spreading apart and for closing; and means for actuating said impaler element and spreader plates in timed relationship so as to spread said plates when said impaling element has lodged a fruit in said socketed blade.

2,531,928
COAL CONVEYER
Ernest C. Webb, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application February 10, 1947, Serial No. 727,631
6 Claims. (Cl. 198—64)



1. A coal stoker of the type having a screw type coal conveyor in which the loading section of said conveyor includes a conveyor screw, an end bearing for said screw, and a bin discharge fitting, said screw having a lesser feeding rate over that part of its length between said end hearing and said fitting than it has over that part of its length within said discharge fitting, said end bearing including a cylindrical section at its end farthest from said fitting and a conical section diverging from its end nearest said fitting, said bin discharge fitting including bearing means for said screw conveyor, means for the segregation of coal and other matter not normally passable through said conveyor means for dressing said nonpassable coal to passable size and means for ready manual elimination of that part of the nonpassable matter which will not dress to passable size.

2,531,929
FISHING REEL
Walter Willman, St. Petersburg, Fla., assignor to James Heddon's Sons, Dowagiac, Mich., a corporation of Michigan
Application March 5, 1947, Serial No. 732,617
7 Claims. (Cl. 242—84.1)



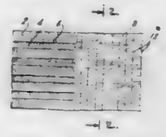
1. In a fishing reel of the type which includes an annular head plate and as a separate unit a cap plate assembly having a closure plate adapted to be fitted within the confines of the opening in the head plate; means for locking the closure plate to the head plate comprising a crescent disk pivotally mounted on the head plate and movable from one position in which the concave face of the disk is clear of the closure plate to a second position in which one of the tips of the crescent disk is engaged with the closure plate to secure the same fixedly in its fitted position upon the head plate.

2,531,930
WELL DRILLING STRUCTURE PROVIDED WITH A DRILL PIPE HOIST
Homer J. Woolslayer and Cecil Jenkins, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 2, 1947, Serial No. 789,254
5 Claims. (Cl. 214—1)

1. A well drilling structure comprising an oil well derrick, a pipe racking platform supported by the derrick and including a rake for receiving the upper portions of stands of drill pipe movable laterally into it from the well, a hoist beam disposed above said platform, a pivotal support for one end of the beam connecting it to one leg of the derrick on an upright axis, adjustable means connected to said support for tilting it relative to said leg, a trolley movable along said beam, hoisting mechanism supported by the trolley, and elevators supported by said mechanism and adapted to be connected to a stand of drill pipe in the derrick, whereby said stand can

be lifted by the hoisting mechanism and swung into said rake.

2,531,931
COMPOSITE MATERIAL
William C. Arkell, Englewood, N. J., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York
Application June 1, 1946, Serial No. 673,881
8 Claims. (Cl. 154—55)

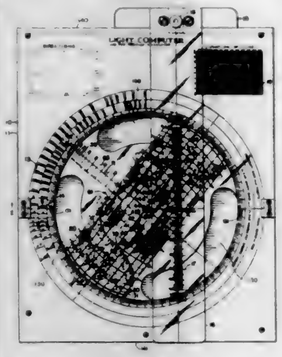


1. Composite material of the class described comprising a web of paper having transversely extending crinkles to provide for stretchability longitudinally of the web and having longitudinally extending corrugations to provide for stretchability transversely of the web, the corrugations being of flattened dove-tail form, and a web of non-felted carded cotton fibers adhesively secured to the crests of the flattened corrugations at each side of the paper web, the cotton fibers extending generally longitudinally of the web.

2,531,932
LIGHT AND SUN POSITION CALCULATOR
Dayton R. E. Brown, Washington, D. C.
Application November 23, 1949, Serial No. 129,162
3 Claims. (Cl. 235—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

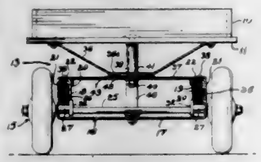
1. A computer, comprising: a flat base; a lower circular recess in the upper surface of said base having a first diameter; a concentric upper recess in said surface having a greater diameter; a flat annular band intermediate the circumferences of said recesses; a horizontal diameter line across the center of said band; a horizontal straight edge at the top of said surface; a T-square member slidable on said edge and having on its blade a transparent altitude scale vertical to said diameter: said band having thereon a clear-sky light scale, an overcast-sky light scale and a circular latitude scale; a lower disc rotatable in said lower recess and having a diurnal grid thereon, said grid having a vertical transverse axis; an upper transparent disc rotatable in said upper recess

and having marked thereon a diameter and a radius vertical to said diameter; said radius having an altitude circle value scale thereon; said upper disc having apertures therein for manually rotating said lower member therethrough; said



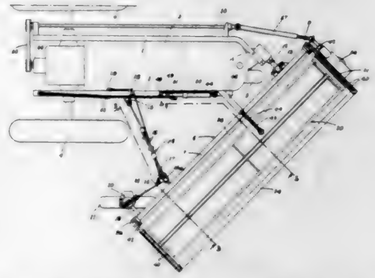
upper member having date scales thereon positioned to overlie said grid, whereby said members may be selectively positioned to determine the altitude and azimuth of the sun and the natural illumination on any given place at any time.

2,531,933
SPRING MOUNTING FOR CHILDREN'S WAGONS OR THE LIKE
Richard A. Clark, Barberton, Ohio
Application October 2, 1946, Serial No. 700,784
5 Claims. (Cl. 267—60)



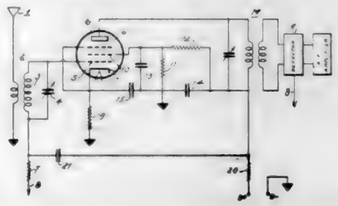
1. In a vehicle of the character described, an axle, a bracket to be supported by said axle, means for attaching said bracket to the underside of a vehicle body, said bracket having spring housings at opposite sides thereof spaced laterally of the vehicle, said spring housings each having laterally spaced walls extending vertically and connected by top and bottom crosspieces, said spaced walls of each said spring housing having laterally aligned and vertically elongated slots therein for receiving said axle therethrough to be vertically shiftable therein with respect to the bracket, a compression spring in each said housing, means in each housing for mounting its compression spring between the axle and said top crosspiece, whereby said bracket and vehicle body are yieldingly supported on the axle, and slidably interengaging guide portions on said axle and said housings for preventing relative rotational movement of the axle about its axis, said bracket being formed of a length of flat strip stock to have central portion terminating at laterally spaced points in vertically extending rectangular loops, each look having spaced inner and outer sides and a top side constituting said spaced inner and outer walls and said top crosspiece, respectively.

2,531,934
SIDE DELIVERY RAKE MOUNTING
Harvey L. Crose, Tulare, Calif.
Application October 5, 1945, Serial No. 620,428
4 Claims. (Cl. 56—27)



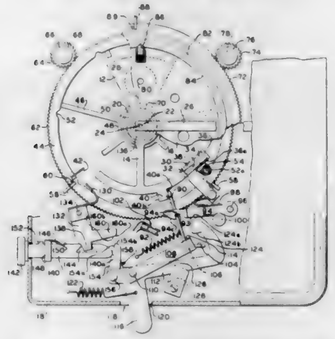
1. In combination with a tractor, a side delivery rake mounting therefor, comprising an elongated rearwardly diagonally extending frame, means interconnecting the front of the tractor and the frame adjacent the forward end of the latter, means interconnecting the tractor and the frame adjacent the rearward end of the latter, a turnable cross beam extending longitudinally of the frame, a rotary side delivery rake pivotally mounted on said frame in advance of said cross beam, spaced levers upstanding from said turnable cross beam, links pivotally connected between said levers and the front portion of the rake, and operator controlled means operatively connected to said cross beam to regulate the rotative position of the rake.

2,531,935
LEVEL-STABILIZED MODULATED CARRIER AMPLIFIER
Melvin L. Doelz, Minneapolis, Minn., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application December 14, 1945, Serial No. 635,087
10 Claims. (Cl. 250—20)



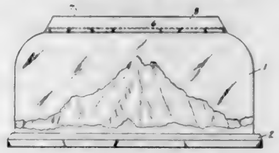
6. In combination, a signal-modulated radio-frequency carrier wave amplifier, means to apply to the input electrodes of said amplifier signal-modulated radio-frequency carrier waves with a certain per cent modulation, means to derive a direct current level-control voltage from the output circuit of the amplifier, means to apply said level-control voltage to one of said input electrodes said level-control voltage when above a certain level tending to change the per cent modulation in the carrier at the amplifier output, means to derive a signal-demodulated voltage at the output of the amplifier, and means to apply said signal-demodulated voltage to one of said input electrodes to maintain the per cent modulation at the amplifier output substantially the same as at the input.

2,531,936
CAMERA SHUTTER MECHANISM
Murry N. Fairbank, Belmont, and Sidney B. Whittier, Cambridge, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application February 7, 1947, Serial No. 727,002
13 Claims. (Cl. 95—59)



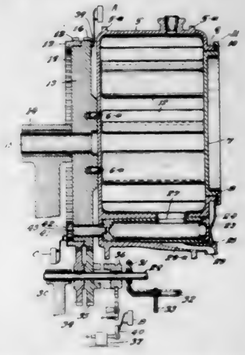
1. In a shutter for a photographic device, in combination, means providing an exposure aperture, a shutter element, means for mounting said shutter element for free rotation, means normally holding said shutter element stationary in aperture-covering position, means for applying a sharp impact to said shutter element to free the same of said holding means and to impart rotary motion thereto, said last-named means including an impact-applying member for engaging said shutter element to transmit the impact thereto, and reversing means for reversing the direction of rotation of said shutter element, said reversing means including an elastic rebound member and mechanism for positioning said rebound member in the path of movement of said shutter element at a point arcuately spaced from said normally stationary position of said shutter element, said rebound member being energized by contact with said shutter element to apply a reversing impulse to said shutter element, said rebound member and said impact-applying member being so mounted as to engage said shutter element for only a small portion of the total travel thereof, the remainder of the travel of said shutter element being substantially free and at a substantially constant velocity, said holding means re-engaging and holding said shutter element upon return thereof to its normally stationary position, the total travel of said shutter element predetermining the time during which the aperture is uncovered thereby.

2,531,937
ORNAMENTAL DISPLAY DEVICE
Harvey H. Gratiot, Portland, Oreg.
Application June 1, 1948, Serial No. 30,375
2 Claims. (Cl. 40—130)



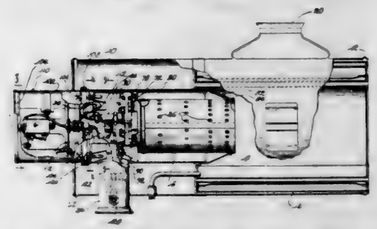
1. An ornamental display device comprising a base, a vertically disposed body member of transparent material mounted upon the base, a cavity formed in the rear surface of the body member and undercut along certain of its edges, an image disposed within said cavity, a plurality of translucent colored elements interchangeably superimposed upon the body member for projecting colored light downwardly upon and about all sides of said object.

2,531,938
LIQUID DISPENSING MACHINE
Normand P. Holcomb, Warehouse Point, and John C. Rothwell, Rockville, Conn., assignors of one-third to Edwin H. De Frees, Wethersfield, Conn.
Application January 11, 1947, Serial No. 721,496
9 Claims. (Cl. 259—30)



1. A liquid dispensing machine of the character described comprising a drum rotatably mounted on a horizontal axis, a first gear secured to said drum for rotating it on said axis, a measuring valve having a measuring plug rotatable on said drum, a second gear for rotating said valve member, means for driving both of said gears to rotate the drum and the valve member therewith in inoperative position, and means operable upon the completion of rotation of said drum to cause discontinuance of rotation of the said first gear and thereby allowing independent rotation of the second gear for rotating the measuring plug independently of said drum.

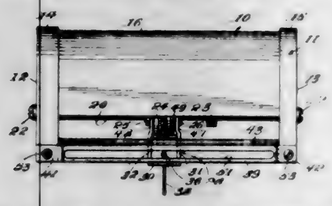
2,531,939
INTERMITTENT COMBUSTION SPARK IGNITION AIRCRAFT HEATER
Gerald Jacobs, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application February 13, 1948, Serial No. 8,106
5 Claims. (Cl. 126—116)



1. In a heater of the type described, means forming a cylindrical ventilating air duct section adapted to be connected at its ends to a ventilat-

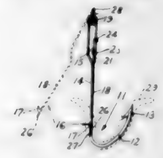
ing air distributing system, a heat exchanger disposed within said duct and having ventilating air passages extending longitudinally with respect to said duct, a burner connected at one end of the heat exchanger and axially disposed within said duct, a spark plug extending through a wall of said burner, means forming a portion of a combustion air plenum chamber enclosing the major portion of said burner including said spark plug and extending beyond the rear end of the burner, a combustion air fitting attached to the wall of said portion and extending substantially radially outwardly through the wall of said duct section and serving as a means for introducing combustion air into said plenum chamber, an electric terminal mounted in the wall of said fitting exterior of said duct wall, means forming a container connected to said portion forming means and disposed in a position adjacent the inlet end of said duct section and substantially coaxial therewith for forming a sealed plenum chamber in conjunction with said portion forming means, an ignition transformer disposed within said container, an electric vibrator type circuit breaker also disposed within said container, and quick disconnect means within said container for connecting said ignition transformer to said spark plug, for connecting said transformer and vibrator to said terminal and for connecting said container to said plenum chamber portion forming means.

2,531,940
FISHING FLOAT
Jack J. Kirschman, Atlantic City, N. J.
Application July 27, 1948, Serial No. 40,819
4 Claims. (Cl. 43—43.11)



4. In a fishing float, a pair of spaced parallel end wall members having inturned peripheral flanges, a float chamber between said end wall members in engagement with said flanges, a horizontally-disposed screw carried by end wall members, means for retaining the end wall members on the opposite ends of said screw, a pulley threaded on said screw for longitudinal movement therealong for the reception thereon of a fishing line, means for limiting longitudinal movement of said pulley along said screw embodying a knurled knob threaded on said screw.

2,531,941
FISHHOOK
Albert Kissell, Woodbridge, Conn.
Application June 1, 1945, Serial No. 597,013
8 Claims. (Cl. 43—37)

7. In a fish hook a main hook portion having a shank and a spur end, a supplemental hook portion having a shank and a spur with a pointed end extending therefrom, said supplemental hook portion being spring-tensioned to spring away from said main hook portion, a catch lip on said main hook portion adapted to engage said pointed end on said supplemental hook portion, said hook shanks being adapted to lie closely adjacent each other when said hook portions are set in closed position by the engagement of said end with said catch lip, said spurs being oppositely directed when said shanks are

lying closely adjacent each other, and means connecting said hook portions together for relative sliding movement in one direction to disconnect said end from said catch lip.

2,531,942
WELL CEMENTING DEVICE
Francis Hampton Lee, San Pedro, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application February 24, 1947, Serial No. 730,346
9 Claims. (Cl. 251—8)

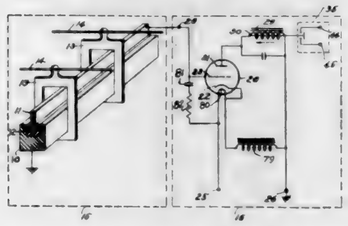
1. Apparatus of the character described, including a first tubular member having a side port, a second tubular member, said members being adapted to form part of a well casing string, a sleeve disposable over said side port to close the same, means providing a slidable spline connection between said second member and sleeve, means providing a first connection between said sleeve and first tubular member, means providing a second connection between said members, said first and second connections being so constructed and arranged that relative rotation between said members moves said sleeve longitudinally of said first member between port closing and port opening positions and moves said members longitudinally of each other between port opening and port closing positions.

2,531,943
COLLAR APPARATUS FOR CEMENTING CASINGS IN WELLS
Francis Hampton Lee, San Pedro, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application February 24, 1947, Serial No. 730,347
7 Claims. (Cl. 251—8)

1. Apparatus of the character described, including a first tubular member having a side port and adapted for connection to a casing section of a casing string positionable in a well bore, a second tubular member adapted for connection to another casing string section, a sleeve on the exterior of said members for opening and closing said port, means providing a connection

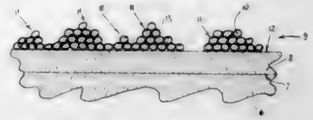
between one of said members and said sleeve for effecting relative longitudinal movement of said sleeve along said one of said members upon relative rotation between said members, and means providing a slidable spline connection between said sleeve and the other of said members.

2,531,944
TEXTILE MACHINE
Arthur G. B. Metcalf, Milton, Mass.
Application February 4, 1946, Serial No. 645,410
11 Claims. (Cl. 28—51)



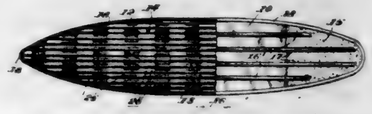
9. For machines for the weaving, spinning and the like of filamentary material, filament-break detecting means comprising; an electron discharge device having an anode, cathode and control electrode; an output circuit including said anode and cathode; an input circuit including said cathode, said control electrode, and a capacitance; a plurality of electrical impedance controlling means arranged in mutually parallel connection in said input circuit and each supported by an individual filament in a predetermined position but adapted upon breakage of the supporting filament to assume and maintain a new disposition and thereby alter the electrical character of said input circuit; operator means adapted to be energized by said output circuit upon breakage of any one of said filaments; and means controlled by said operator means for interrupting a power circuit independent of said output circuit and for providing a thereafter continuing indication that said breakage has occurred.

2,531,945
REFLECTION REDUCING COATINGS HAVING UNIFORM REFLECTION FOR ALL WAVE LENGTHS OF LIGHT AND METHOD OF FORMING SUCH COATINGS
Harold R. Moulton, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 5, 1947, Serial No. 739,546
10 Claims. (Cl. 88—1)



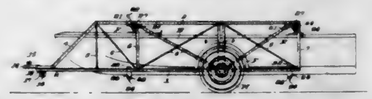
1. A coated article comprising a substrate formed of light transmitting material and having a given index of refraction greater than unity, said article having a substantially archromatic surface reflection reducing coating on a surface thereof, said coating consisting of a transparent dense layer of silica on the surface of said substrate having an index of refraction less than that of the substrate and of a thickness of approximately a one-fifth wave length of the incident light and a second layer of discrete microgranular, submicroscopic transparent solid particles of silica on the surface of said first layer of a thickness of approximately ¼ wave length of the incident light, said particles being piled in irregularities that are spaced less than a wave length of light apart and with the concentration of said particles increasing as the surface of said first layer is reached whereby the effective index of said second layer varies from approximately unity to a value approaching that of the first layer, said layers substantially uniformly reducing the reflection of all wave lengths of light from the surface of the coated article.

2,531,946
SURFBOARD
George B. D. Parker, Raleigh, N. C.
Application January 29, 1948, Serial No. 5,129
5 Claims. (Cl. 9—11)



1. A surf board comprising a substantially hollow hull fomed of bottom, side, and deck plates with the deck spaced from the bottom, and an inner corrugated reinforcing frame extending continuously from end to end of the hull retaining the plates in spaced relation continuously throughout the length thereof.

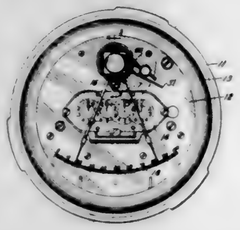
2,531,947
BOAT TRAILER
John G. Reading, Black Mountain, N. C.
Application March 11, 1949, Serial No. 80,947
1 Claim. (Cl. 214—75)



In a two wheel trailer having hoisting and suspending means, the combination with a

U-shaped draft beam having a front coupler, and a suspending frame erected on the draft beam, of a pair of interchangeable and removable boat-supporting saddles, each said saddle including a metallic base strip rigid with the beam, a depressible boat-supporting strip mounted on the base strip, coacting means on the strips for retaining and guiding the movements of the supporting strip, and spring-members interposed between said strips.

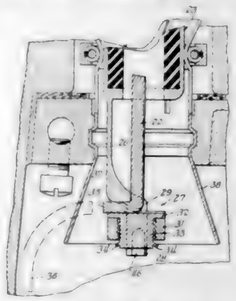
2,531,948
METER RESET DEVICE
Richard A. Road, West Lafayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application August 23, 1947, Serial No. 770,322
5 Claims. (Cl. 116—129)



1. A reset device for maximum demand meters including a bushing adapted to be secured to a meter cover, a reset knob, a spindle and shank by which the knob is carried and which extends through the bushing and which as groove portions on its inner end spaced laterally from each other, and a reset arm secured to the spindle at the inner end therof, said reset arm comprising a spring wire member having its spindle-engaging end doubled back upon itself, both the main wire member and the doubled-back portion resting in grooves in the spindle, the reset arm being shaped to match the shape of the groove portions only when positioned in the groove portions so that the doubled-back portion projects from the spindle in both directions longitudinally of the groove portions to secure the spindle within the bushing.

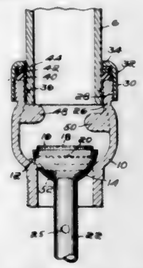
2,531,949
FUSE TUBE TERMINAL
Carl E. Schultheiss, Libertyville, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application March 22, 1948, Serial No. 16,179
4 Claims. (Cl. 173—269)

1. A terminal for use at the discharge end of an expulsion fuse tube and arranged to have connected thereto flexible conductors of replaceable fuse links with or without rigid anchor contact members thereon comprising, a ferrule for receiving one end of the fuse tube, a tongue extending from said ferrule away from its end which receives the fuse tube and having a longitudinal slot at its outer end, a threaded extension at the outer end of said tongue having a transverse slot therein intersecting said longitudinal slot through which a flexible conductor may be passed or against the outer end of which a rigid anchor contact member on a flexible conductor can react, a nut on said extension, and a jaw movable with said nut and slidable in said transverse slot for clamping the flexible con-



ductor between it and the bottom of the transverse slot.

2,531,950
LIQUID LEVEL SIGNALING UNIT CONSTRUCTION
Frank P. Scully, Belmont, Mass., assignor to Scully Signal Company, East Cambridge, Mass., a corporation of Massachusetts
Application September 25, 1947, Serial No. 776,102
3 Claims. (Cl. 137—111)

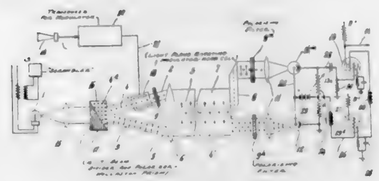


3. A signaling unit for use with a tank comprising a cast tubular casing having at least one integral stop extending laterally part way across said casing, a seat below said stop, a whistle assembly comprising a valve member supported by said seat and a whistle carried by said valve member, the dimensions of said assembly precluding passage past said stop when said assembly is in normal horizontal position and permitting passage past said stop of said valve member and whistle when the latter are turned to vertical position, and an intrusion tube attached to said whistle assembly, which tube, by engagement with said casing, will limit rotation of said assembly about a horizontal axis, thereby preventing removal of said assembly from said casing.

2,531,951
INTERFERENCE REDUCING METHOD OF SECRET COMMUNICATION
Morris H. Shamos and Irving S. Lowen, New York, N. Y., assignors of one-half to W. I. Westervelt and G. C. Westervelt, both of New York, N. Y.
Application August 2, 1944, Serial No. 547,732
5 Claims. (Cl. 250—7)

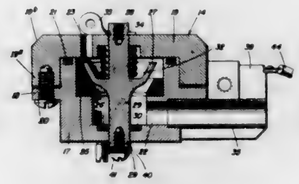
2. A method of transmitting intelligence which consists in creating at a single source wave energy of higher frequency than visible light rays, dividing and modulating a portion of said energy, polarizing said portion in a definite plane between

the place of transmission and a place of reception, polarizing the remainder of said energy between said places, receiving and collecting energy thus polarized, converting the polarized compo-



nents of said energy into separate electrical impulses, opposing the impulses arising from said portion to the impulses due to said remainder, and from the resultant impulses reproducing said intelligence.

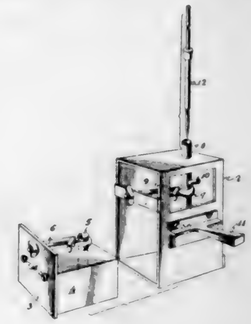
2,531,952
BATTERY VENTING APPARATUS
Frederick H. Smith and Pierce G. Couperus, East Natick, Mass., assignors to the United States of America as represented by the Secretary of the Navy
Application September 15, 1943, Serial No. 502,522
1 Claim. (Cl. 114—20)



In an electrically operable underwater ordnance having a hull containing a chargeable battery, a venting apparatus therefor comprising a casing having an outlet port communicating with the exterior of the hull and also having an inlet port communicating with the battery, a valve seat in the casing between said ports, a valve in the casing engageable with the seat, a spring urging the valve toward the seat, releasable means outside the hull normally holding the valve away from the seat against the spring to allow gas from the battery to escape through the seat and the outlet port, said last means being releasable when the ordnance is launched to cause the spring to close the valve and prevent water from entering the battery from the outlet port.

2,531,953
APPARATUS FOR HANDLING RADIOACTIVE SOLUTIONS
Waverly Q. Smith and George W. Struthers, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application September 5, 1944, Serial No. 552,810
7 Claims. (Cl. 23—259)

1. An apparatus for handling radioactive solutions comprising a container, a pipette receiving sheath disposed within said container, a removable drawer positioned in the container and adapted to mount a receiver in communication

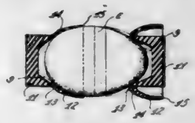


with said sheath, and means for supporting said sheath in position in said container.

2,531,954
SHOPPING BAG
James F. Spahr, Washington, D. C.
Application February 10, 1948, Serial No. 7,459
2 Claims. (Cl. 150—1.7)

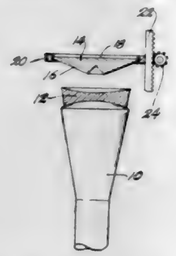
1. A shopping bag of flexible material and tubular shape having a hinged base receptacle provided with side walls forming a solid bottom for said bag when in use and when reversed providing a hinged closure for storing said bag.

2,531,955
EGG HOLDER
John R. Toney, Los Angeles, Calif.
Application September 23, 1947, Serial No. 775,586
3 Claims. (Cl. 65—22)



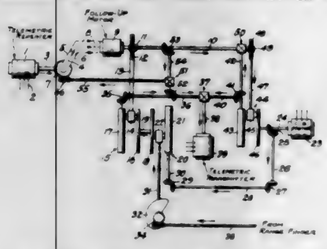
2. A holder for eggs, or like-shaped round articles, comprising a base having a flat bottom and a vertically extending portion, a resilient cup-shaped member having the interior thereof approximately shaped to receive one end of the article, and a thinned circumferential section in the cup member providing a weakened annulus immediately adjacent the upper extremity of said vertically extending portion about which the outer portion of the cup may be folded back upon the base portion, the thinned circumferential section being diametrically expansible when pressed against the rounded surface of the article, whereby the holder may be placed against one end of the article when the cup edges are folded backwardly and the folded-back portion manipulated to cause it to roll against the article to substantially its original cup shape.

2,531,956
OPTICAL LENS SYSTEM
Adrian Waldorf, Arlington Va., and Willard H. Wade, New York, N. Y.
Application August 29, 1945, Serial No. 613,370
7 Claims. (Cl. 88—57)



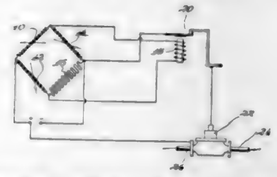
1. An optical system comprising first means for projecting an image along a path, a double concave lens adapted to have the image projected therethrough, and a lens disposed in said path between the first means and the observer, said lens having formed in one surface thereof a single notch only having substantially the shape of a cone, said surface apart from said notch being continuous and smooth.

2,531,957
REGENERATIVE TRACKING AND SMOOTHING DEVICE
Herbert K. Weiss, Joppa, Md.
Original application June 18, 1942, Serial No. 447,556, now Patent No. 2,433,006, dated December 23, 1947. Divided and this application September 4, 1947, Serial No. 772,038
8 Claims. (Cl. 235—61.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



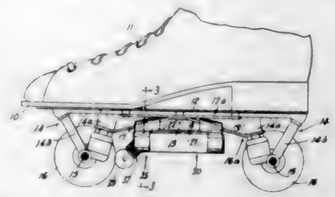
1. In a remote controlled regenerative tracking and smoothing device, a repeater, a follow-up motor, first contact means controlled by said repeater, first and second variable speed drives, means connecting said first drive for operating by the output of said second drive, means adjusting said second drive in accordance with the square of the range of a target being tracked, means adjusting said first variable speed drive in response to operation of said follow-up motor, a differential, means connecting two sides of said differential to the output of said first variable speed drive and said follow-up motor, respectively, second contact means cooperating with said first contact means to control said motor, means drivingly connecting the third side of said differential to said second contact means, and a transmitter drivably connected with the output of said first variable speed drive.

2,531,958
PROTECTIVE DEVICE FOR FUEL LINES OR THE LIKE
Lynn A. Williams, Jr., and Arthur C. Allen, Chicago, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application December 18, 1942, Serial No. 469,420
3 Claims. (Cl. 137—139)



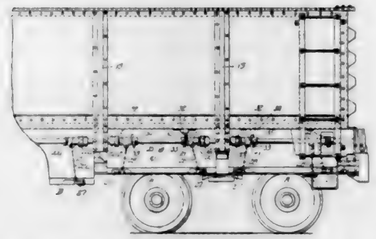
2. A protected conduit including a valve biased to closed position, electromagnetic means arranged to open said valve when energized, a normally closed electrical circuit for energizing said electromagnetic means, a relay circuit associated with said normally closed circuit and arranged when energized to effect deenergization of said normally closed circuit, a bridge circuit associated with said relay circuit so as to deenergize said relay circuit when balanced and to energize it when unbalanced, one of the legs of the bridge comprising a wire network substantially enclosing said conduit and so positioned and arranged that external piercing of the conduit will so effect said wire network as to cause unbalance of said bridge.

2,531,959
ROLLER SKATE AND CARRIER DEVICE THEREFOR
Arthur Woodard and Irving W. Lewine, New York, N. Y.
Application June 10, 1947, Serial No. 753,612
2 Claims. (Cl. 280—11.37)



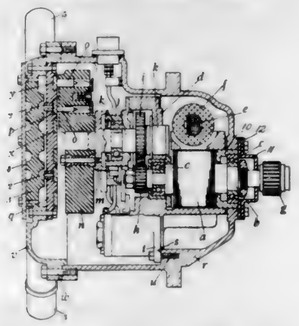
1. In combination with a skate including a platform, front and rear axle supports, and a brace extending longitudinally under said platform between the axle supports; a carrier comprising a strip extending longitudinally under said brace, pairs of arms extending upwardly from opposite side edges of opposite ends of said strip and having upper end portions bent inwardly and forming hooks extending inwardly across the upper surface of said brace from opposite side edges thereof and holding the arms in supported engagement with the brace, one arm of each pair having its hook-forming portion of greater length than the other and bent to form an upwardly and outwardly extending handle, and resilient straps secured across under faces of said strip and having end portions bent downwardly and forming longitudinally curved clamping jaws disposed under said arms in position to engage about portions of an article and suspend the said article under the strip longitudinally thereof.

2,531,960
DUMP CAR DOOR OPERATING MECHANISM FOR SEVERAL SIZE DOOR OPENINGS
Albert E. Zimmer, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 15, 1947, Serial No. 768,804
3 Claims. (Cl. 105—301)



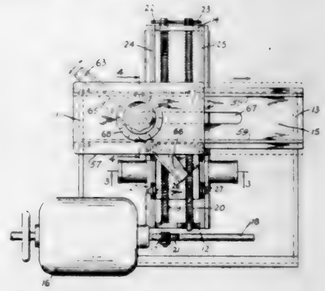
1. In a dump car including a plurality of doors at least one of which is arranged for a lesser degree of opening than another of said doors and door operating mechanism for controlling the opening and closing of said doors having a rotatable operating shaft, and flexible chains connecting each of said doors to said operating shaft, the improvement which comprises lost motion means interposed between said operating shaft and each chain of the door arranged for the lesser degree of opening, said lost motion means including members fast on said shaft, said members comprising a wheel and a collar spaced axially from said wheel, a winding sheave loose on said shaft between said members on which the corresponding chain is wound, and means for limiting the movement of said shaft relative to said sheave including a lug carried by said sheave and a cooperating lug carried by one of said members.

2,531,961
IGNITION MAGNETO
John Archibald Baines, London, England, assignor to Rotax Limited, London, England
Application November 17, 1948, Serial No. 60,459
In Great Britain December 8, 1947
1 Claim. (Cl. 171—209)



An ignition magneto comprising in combination, a generator having a driving spindle, a rotor on said spindle, a frame supporting said spindle, and a stator on said frame, a rotary distributor part provided with electrodes and operatively connected to said spindle, said generator and rotary distributor part together forming a self-contained unit, a hollow body part having an open end through which said unit is inserted as one piece into said body part, means removably securing said unit in said body part with said rotary distributor part adjacent to the open end of said body part, a removable cover closing the open end of said body part, and a stationary distributor part mounted on the inner side of said cover and provided with conductors for co-operating with said electrodes.

2,531,962
COIL WINDING MACHINE
James E. Bancroft, Jamaica, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc. (1947), a corporation of New York
Application April 2, 1946, Serial No. 658,906
23 Claims. (Cl. 242—9)



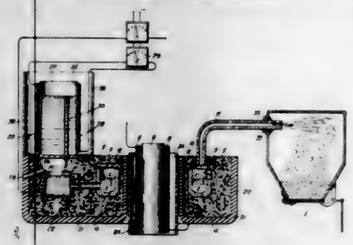
1. A coil winding machine comprising a rotatable mandrel, a first carriage supported for reciprocation parallel to said mandrel, a second carriage supported for reciprocation perpendicular to said mandrel, means interconnecting said carriages to effect reciprocation of said first carriage upon reciprocation of the second carriage, a pair of feed screws extending perpendicular to said mandrel, a pair of worm wheels rotatably supported by said second carriage in engagement with said feed screws, means for selectively clamping said worm wheels against rotation, and means for rotating said mandrel and said feed screws, the direction of rotation of said feed screws being so related to the threads thereof that with one worm wheel held against rotation said second carriage moves toward said mandrel and with the other worm wheel held against rotation said second carriage moves away from said mandrel.

2,531,963
HEEL
Herbert F. Banner, Easton, Md.
Application November 6, 1948, Serial No. 58,694
5 Claims. (Cl. 36—36)

2. A heel for shoes and boots comprising a main body portion having a recess extending along the sides and around the back thereof, and a wearing member comprising a strip normally seated in said recess, said body member having

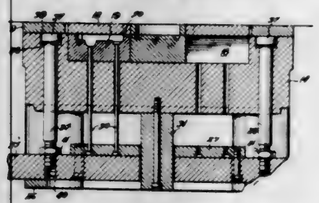
clips fixedly secured therein at the forward corners thereof and the wearing member having annular recesses at each end seated in said clips thereby to hold said wearing member in the recess in the body portion of the heel.

2,531,964
ELECTRIC METALLURGICAL APPARATUS
David R. Bean, Greenside, Johannesburg, Transvaal, Union of South Africa, assignor to Anglo American Corporation of South Africa Limited, Johannesburg, Transvaal, Union of South Africa
Application February 28, 1949, Serial No. 78,742
In the Union of South Africa March 24, 1948
5 Claims. (Cl. 13—5)



1. The combination of an induction furnace having a furnace chamber providing an enclosed annular furnace cavity disposed with its axis vertical and heating means disposed axially with respect to the cavity and suitable to heat the contents of the cavity inductively, vapour treatment apparatus adapted to convert vaporous material into an industrial product, a conduit connecting the upper part of the cavity with the treatment apparatus; the furnace chamber being sufficiently fluid-tight to withstand the internal pressure necessary to drive matter in the gaseous phase from the cavity into the treatment apparatus; a feed vessel suitable to hold material in the liquid phase, a passage connecting the vessel with the furnace cavity and positioned to communicate with each at a low level which is below the level of their liquid content; a melting pot suitable to receive solid material and electrical heating means associated with the pot to convert the material in it to liquid phase, and having discharge means above the feed vessel for material melted therein to flow gravitationally into the feed vessel.

2,531,965
MOLD BASE
George H. Beck, Maplewood, and Julius Z. Foris, Union, N. J.
Application March 4, 1949, Serial No. 79,537
6 Claims. (Cl. 18—42)

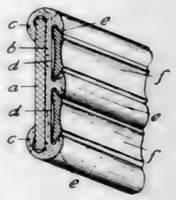


1. A mold base comprising an inverted U-shaped unitary structure having integral supporting arms and a transverse portion, an ejector plate mounted for reciprocating movement within the inverted U-shaped opening of the structure between and parallel to said arms, push-back pins connected to said ejector plate, enlarged heads formed on the free ends of said push-back pins, said push-back pins being slidable in elongated openings formed in the transverse portion of said unitary structure, and shoulders formed in said elongated openings for engaging said enlarged heads so as to contact and predetermine rearward movement of said ejector plate, said push-back pins having their connected ends threadedly engaged with complementary openings in said ejector plate, such connection serving to regulate the effective length of said push-back pins.

2,531,966
ELECTROMAGNETIC TIMEPIECE WITH OIL SHIELD
Joseph Berge, Maplewood, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y., a corporation of New York
Application December 11, 1944, Serial No. 567,688
3 Claims. (Cl. 58—28)

1. In a timing mechanism of the type having a staff, a balance wheel on said staff, electromagnetic means for imparting magnetic energy to said wheel, means including a contact pin on said wheel for periodically connecting a source of electric current with said electro-magnetic means, and a lubricated escapement member carried by said staff adjacent said contact pin, the combination therewith of a porous metallic member normally free of any lubricant and oscillatable with said staff and disposed between said contact pin and said member.

2,531,967
MOLDING FOR VEHICLE BODIES
William Henry Bishop, Birmingham, England
Application November 6, 1948, Serial No. 58,757
In Great Britain November 8, 1947
4 Claims. (Cl. 293—71)

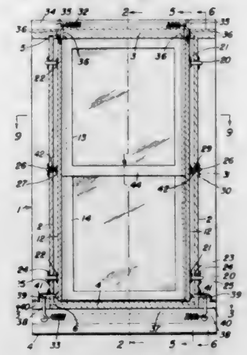


1. A bumper bar for a vehicle comprising a rigid metal bar, a rubber moulding fitting against the front face of the bar and embracing the top and bottom edges of the bar, at least one longitudinal recess in the front face of the rubber moulding, integral inwardly projecting lips on the edges of said recess, and a metal insert fitting into said recess and retained therein by said lips.

2,531,968
ORNAMENTAL BOX
Jacques Byck, New York, N. Y.
Application March 2, 1948, Serial No. 12,589
1 Claim. (Cl. 229—8)

A container comprising a receptacle and a cover member for the receptacle, said cover member including a top wall of cardboard, in combination with a thin backing sheet, an ornamental fabric panel, and a thin flexible finishing sheet, said thin backing sheet being adhesively secured to said top wall, said ornamental fabric panel being adhesively secured to said backing sheet, said thin sheet having an open portion therein, said open portion having a contrasting color border thereon, said finishing sheet being neatly and adhesively secured to said backing sheet and to said top wall with the open portion narrowly overlapping the edges of the ornamental panel, said open portion and its contrasting border constituting a frame about the ornamental panel, said ornamental fabric panel comprising interwoven yarns of contrasting color and of varying length, certain of said yarns being piled up so as to provide surfaces of different elevation graduated to produce a three dimension effect.

2,531,969
WINDOW
Louis O. Chartier, Schenectady, N. Y.
Application April 29, 1948, Serial No. 23,982
2 Claims. (Cl. 20—12)

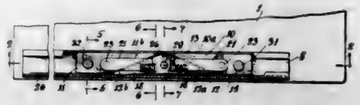


1. In a window, a frame including side stiles with inner side channels, a header and a sill member having a bottom longitudinal groove therein, a pair of upper and lower sashes in said frame offset relatively for vertical movement past each other, a pair of upright sash guides between said stiles in the channels thereof and between which both said sashes are interposed and guided therein for vertical sliding movement, means for causing said guides to frictionally grip said sashes yieldingly with sufficient pressure to hold the same stationary when moved vertically into different positions comprising hooks on the upper ends of said guides, a spring extending along the top of said header and connecting said hooks, brackets depending from the lower ends of said guides, and a spring in said groove connecting said brackets.

2,531,970
BRAKE WITH DRIVE RELEASE
Erastus C. Deal, Rye, N. Y., assignor to Deal Slide-Lock Devices, Inc., New York, N. Y., a corporation of New York
Application November 15, 1946, Serial No. 710,213
10 Claims. (Cl. 192—8)

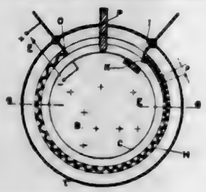
4. In a device of the class described, the combination of a guideway having spaced side walls, longitudinally spaced locking members having locking surfaces at inwardly disposed portions thereof each facing toward the same side wall and having portions substantially filling the space between said side walls, an intermediate locking member having a plurality of locking surfaces each facing toward an opposite side wall than and adapted to complement the locking surfaces of said first mentioned locking members, spreader members intermediate said complementary locking surfaces adapted to effect separation of said members and locking of said intermediate locking member with one side wall of the guideway and said spaced locking members with an opposite side wall of the guideway, and means adapted to be used to selectively position the locking members with respect to the guideway.

2,531,971
ADJUSTABLE LOCKING DEVICE
Louis L. Deal, Rye, N. Y., assignor to Deal Slide-Lock Devices, Inc., New York, N. Y., a corporation of New York
Application December 31, 1946, Serial No. 719,393
13 Claims. (Cl. 192—8)



1. In a device of the class described, the combination of a pair of radially spaced opposed curved walls forming a curved guideway, a plurality of members having complementary inclined end surfaces and having exterior surfaces shaped to conform substantially to the curvature of said radially spaced curved walls and slidable therealong, yieldable means normally urging said members together to thereby effect movement of said inclined surfaces with respect to each other and engagement of the members with curved portions of said guideway walls, and means for selectively positioning said members with respect to said guideway.

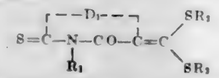
2,531,972
ULTRA SHORT WAVE TRANSMITTING TUBE
Oskar Doehler, Werner Kleen, and Harry Huber, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application February 12, 1949, Serial No. 76,082
7 Claims. (Cl. 315—39)



1. In an electronic discharge device having an emissive cathode, means for establishing a substantially time-constant magnetic field, the electron current of said cathode being located within said field, the lines of force of the field, in a given direction, being substantially parallel to the surface of the said cathode, and an interaction duct comprising two spaced substantially parallel conductors having their surfaces parallel to the lines of force of the magnetic field, terminal connections to the cathode and to both conductors enabling the surface of the cathode to be brought to a predetermined potential and the production between the conductors of a transverse electrical field substantially perpendicular to the magnetic field, at least one of the conductors comprising elements constituting a delay line and having an input terminal and an output terminal for ultra-high frequency and means for progressively increasing the propagation speed of energy in the line in the direction of electron current propagation.

2,531,973
DYESTUFFS CONTAINING TWO HETEROCYCLIC NITROGEN NUCLEI AND AN ALKYL MERCAPTO METHINYL LINKING RADICAL AND THEIR PREPARATION
Harry Derek Edwards and John David Kendall, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
No Drawing. Application January 2, 1948, Serial No. 380, In Great Britain January 9, 1947
7 Claims. (Cl. 260—240.4)

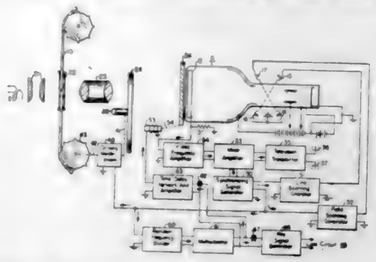
1. Process for the production of dyestuffs which comprises condensing a compound of the general formula:



where D_1 is selected from the class consisting of the oxygen atom and the sulphur atom, R_1 is a hydrocarbon group and R_2 is an alkyl group, with a heterocyclic nitrogen compound containing a reactive methylene group, in the presence of a basic condensing agent.

2,531,974
SUBSCRIPTION TYPE TELEVISION TRANSMITTER
Alexander Ellett, River Forest, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application April 7, 1949, Serial No. 85,963
8 Claims. (Cl. 178—5.1)

1. A subscription type television transmitter for deriving coded television signals from a film strip on which program information is recorded in the same mode in succeeding frames comprising: a video-frequency signal generator including means for scanning an image; an optical system for presenting images of successive frames of said film to said scanning means and including coding means for changing the mode of images presented to said scanning means; means for actuating said coding means to vary, during spaced operating intervals, the modes of images presented to said scanning means; a synchronizing-signal generator for producing synchronizing signals representing the scanning



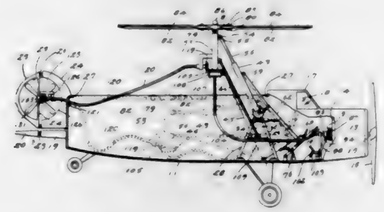
cycles of said scanning means; a mixer amplifier coupled to said generators for developing a coded composite television signal including video-frequency and synchronizing-signal components; means for transmitting said composite signal to subscriber receivers over a first signal channel; a key-signal generator; means for controlling said key-signal generator to produce a key signal having characteristic variations representing the changes in mode of images presented to said scanning means; and means for supplying said key signal to a second channel for transmission to subscriber receivers.

2,531,975
METHOD AND APPARATUS FOR EXPANDING MINERALS
Jesse L. Essex, San Antonio, Tex., and John R. Appleton, Los Angeles, Calif.
Application April 19, 1947, Serial No. 742,544
5 Claims. (Cl. 252—378)

1. Apparatus for cellulating expandable rocks and ores comprising in combination a hearth, means for moving a stream of said granules over said hearth, said hearth increasing in area towards its discharge end to accommodate the increased area required for the expanded granules, a source of radiant energy above said hearth spaced from but in close proximity to the stream of granules and constituting substantially the sole source of heat energy for expanding said granules, the temperature of said source being at least as high as the expanding temperature of the material, and means for collecting the expanded material after it passes out of the field of radiant energy.

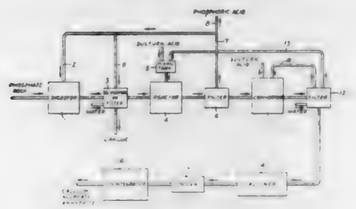
2,531,976
RETRACTABLE LIFT ROTOR MECHANISM FOR AIRCRAFT
Harley Allen Garrett, Camden on Gauley, W. Va.
Application September 13, 1946, Serial No. 696,730
9 Claims. (Cl. 244—6)

1. An aircraft comprising a fuselage, a horizontal rotor disposed above the fuselage, a prime mover in the fuselage, disengageable means driving the rotor from said prime mover, manually actuated means for moving the rotor to a retracted position within the fuselage, said manually actuated means including a bearing frame disposed within the fuselage, a rotor shaft bearing, brace members swingably supported on the



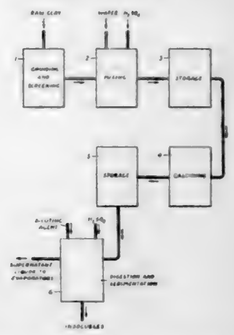
bearing frame and pivotally connected to the rotor shaft bearing, and manually actuated means for oscillating the brace members for raising and lowering the rotor shaft bearing and the horizontal rotor carried thereby.

2,531,977
PROCESS FOR MANUFACTURE OF PHOSPHORIC ACID
Berndt Waldemar Hammaren, Floral Park, N. Y., and Robert Vose Townend, Arlington, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application January 22, 1948, Serial No. 3,784
12 Claims. (Cl. 23—165)



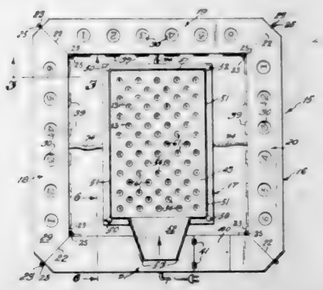
1. In a process for converting a calcium salt of phosphoric acid into phosphoric acid and a precipitate of calcium sulfate by reaction with sulfuric acid, the improvement which comprises separating the mixture of phosphoric acid and precipitate of calcium sulfate into a phosphoric acid portion substantially free from precipitate and a residue in the form of a slurry containing calcium sulfate precipitate and a substantial amount of liquid phosphoric acid, subjecting said residue to the action of a sulfuric acid solution, maintaining the mixture of sulfuric acid solution and said residue for a sufficient length of time to convert the calcium sulfate precipitate to calcium sulfate anhydrite at temperatures within the range of the boiling point of the sulfuric acid solution to 60° C., the temperature of the mixture being so correlated with the concentration of sulfuric acid in the solution that at a temperature of the boiling point of the solution said solution contains at least 15% sulfuric acid with this minimum limit increasing to 33% for a mixture at 60° C., separating said anhydrite from the liquor, and returning said liquor to the calcium salt of phosphoric acid for further conversion into phosphoric acid and a precipitate of calcium sulfate.

2,531,978
CONDITIONING CLAY FOR MANUFACTURE OF ALUMINUM SULFATE
Berndt Waldemar Hammarén, Mineola, N. Y., Patrick Anthony Florio, Wilmington, Del., and Robert Vose Townend, Arlington, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application December 30, 1949, Serial No. 135,892
7 Claims. (Cl. 23—123)



1. A process for the production of aluminum sulfate from clay which comprises grinding the clay, admixing a predetermined amount of water and sulfuric acid with the ground clay such that the admixed clay will contain from 5 to 25% water and 1 to 5% H_2SO_4 by weight of the clay, aging the mass for at least 15 minutes, calcining the moist acid treated clay, digesting the clay with sulfuric acid, and separating aluminum sulfate liquor from insoluble material in the reaction products.

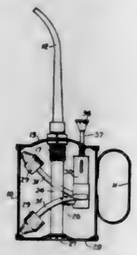
2,531,979
ELECTRICAL BALL GAME APPARATUS
James M. Hobbs, West Durham, N. C.
Application July 22, 1949, Serial No. 106,152
9 Claims. (Cl. 273—120)



1. A game apparatus comprising an outer counter unit formed of detachably connected sections defining an endless frame, hinged supporting legs connected to said counter sections for supporting said counter unit in an elevated position, certain of said counter sections having a plurality of separate illuminating means contained therein, said counter sections having openings in the walls thereof provided with distinctively colored lenses for emitting the light rays from the individual illuminating means of said sections, each of the counter sections, provided

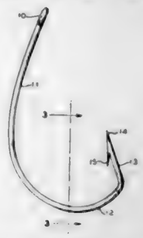
with the illuminating means, including a corresponding number of correspondingly arranged, distinctively marked illuminating means and lens covered openings, the distinctively marked illuminating means and lens covered openings of each of said counter sections corresponding to those of each of the other counter sections, an electric circuit for each of the distinctively marked illuminating means, said circuits all being adapted to be connected to a source of electric current each circuit connecting the correspondingly marked illuminating means of the counter sections containing illuminating means; an inner game board unit disposed within the opening defined by said counter unit comprising an elongated box-like structure having a relatively thick top wall constituting a game board, hinged legs for supporting said game board unit with its top surface at substantially the level of the top surface of said counter unit, said top surface or game board being provided with a plurality of spaced dished-shaped recesses therein, a normally open switch mounted beneath each recess and including a reciprocating plunger extending into the recess, spring means for normally holding each plunger in raised position for normally maintaining the switches in open or circuit interrupting positions, each of the circuits of the correspondingly marked illuminating means of said counter sections being connected to a plurality of said switches, said game board surface being adapted to support a rolling ball movable into and out of engagement with said recesses for depressing the switch plungers for energizing and de-energizing the illuminating means connected thereto and in one of which recesses the ball is adapted to lodge for maintaining correspondingly marked illuminating means of said counter sections energized until the ball is removed from said last mentioned recess.

2,531,980
OILCAN
Thorvald Johnson, Vancouver, British Columbia, Canada
Application March 17, 1948, Serial No. 15,284
2 Claims. (Cl. 222—376)



1. An oil dispenser comprising a can having a discharge spout, a pump cylinder mounted in said can having communication with the spout of said can, tubes extending from opposite sides of said cylinder adjacent its lower end, one of said tubes extending towards the top of said can and the other towards the bottom, suction valves at the free ends of said tubes, a piston slidably and rotatably mounted in said cylinder having a depending wall provided with a slot in its lower end, and means for reciprocating and turning said piston to bring the slot in the wall of the piston in register with one of said tubes.

2,531,981
FISHHOOK
Charles H. Liebe, St. Petersburg, Fla.
Application January 28, 1949, Serial No. 73,249
1 Claim. (Cl. 43—43.16)



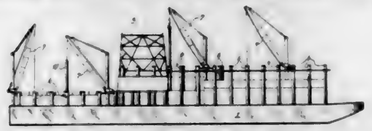
A fish hook comprising a relatively long shank having an eye at its upper end for the attachment of a line, said shank being gently curved from its upper to its lower portions with the curvature along the lower portion progressively increased and abruptly merged into a straight end portion terminating in a barb and an impaling point disposed a substantial distance from said shank and providing a relatively wide gap therebetween, said straight end portion and said impaling point being disposed substantially in a line extending upwardly in the general direction of the eye and laterally at an angle to the plane of the shank portions and one surface of the straight end portion being continuously straight from its end nearest the lower curved portion of the shank to its point end to increase the impaling probabilities of said hook and to cause the point of the hook to be disposed in a position such that when pulled the pulling force will be applied in the general direction of the movement of the point of the hook.

2,531,982
BRUSH SCRAPER FOR CONTAINERS
George E. Marrier, Burlington, Vt.
Application May 31, 1949, Serial No. 96,315
2 Claims. (Cl. 220—90)

2. A brush scraper for a container having an open upper end provided with an inturned annular flange, said scraper comprising a resilient member having a pair of arcuate side portions and a straight intermediate portion connecting said side portions together, and a pair of keeper shoes comprising arcuately bent channel members having the respective side portions of said resilient member secured therein and having open outer sides to receive said container flange, the intermediate portion of said resilient member affording a scraper for a brush.

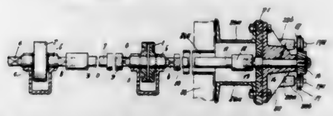
2,531,983
STABILIZABLE VESSEL FOR SUBMARINE OPERATIONS AND METHOD OF OPERATING THE SAME
Clarence J. McCoy, Tulsa, Okla., assignor to Noble Drilling Corp., Tulsa, Okla., a corporation of Delaware
Application November 4, 1948, Serial No. 58,206
13 Claims. (Cl. 61—46)

12. A structure convertible from a floating vessel into a stabilized structure over a submarine surface, and vice versa, comprising a vessel including a plurality of open ended tubes extending through the top and bottom of said vessel such that one end of each tube provides access to said surface through the bottom of said vessel for an extensible and retractible supporting leg, interconnected leg sections within each said tube constituting an articulated downwardly extensible and upwardly retractible supporting leg for engagement with said surface, said sections being disconnectible from each other whereby said leg may be assembled and extended downwardly by the progressive addition of such sections to the



top of the leg and disassembled by the progressive raising thereof and successive disconnection of the uppermost of said sections, piston heads each removably positioned on the uppermost of such sections in each said tube and each engaging the associated tube, removable means closing the upper end of each tube to define in each tube a compression chamber with such tube and the piston head therein, and means for supplying fluid under pressure to all of said chambers simultaneously and at common pressure whereby said vessel may be lifted and lowered uniformly on said legs.

2,531,984
ROLLER UNIT FOR FURNACES
William James Millar, London, England, assignor of one-half to Electric Resistance Furnace Company Limited, London, England, a company of Great Britain
Application July 17, 1947, Serial No. 761,518
In Great Britain January 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires January 11, 1963
4 Claims. (Cl. 198—127)

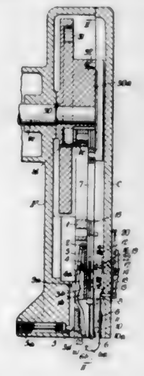


1. A roller unit for a furnace conveyor comprising a number of axially spaced rollers, a separate spindle for each of said rollers, an independent bearing for each spindle, said bearings being axially aligned with said spindles and the ends of each spindle being carried in the bearing associated therewith, a driving spindle in axial alignment with said roller spindles, and independent coupling members, axially aligned with said spindles and extending respectively between said bearings and adapted to couple said roller spindles together in axial alignment, and a coupling member adapted to couple the end spindle with said driving spindle.

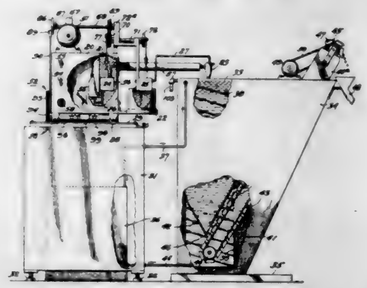
2,531,985
WIRE STITCHING MECHANISM
John Irving Nasmith, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company
Application November 22, 1949, Serial No. 128,753
In Great Britain November 26, 1948
15 Claims. (Cl. 1—2)

1. Wire stitching mechanism comprising an outside staple former and a staple driver which

reciprocate along a common axis, internal supports for the staple comprising two co-acting and relatively movable supporting elements, a face on one of said elements for supporting the crown of the staple, means for positioning and actuating said crown supporting element with the face thereof located beneath and in supporting relation with the crown of the staple from the beginning and during the greater part of the driving operation, surfaces on the other of said elements for supporting the legs of the staple, and means for moving said other element transversely to the plane of the staple to support the undriven portion of the staple legs in conjunction with the outside former as the length of said undriven portion diminishes.



2,531,986
PROCESS AND APPARATUS FOR PRODUCING CAPSULES
Benjamin D. Pile, New Orleans, La., and Archie H. McCallum, Peoria, Ill.
Application November 17, 1947, Serial No. 786,354
10 Claims. (Cl. 18—5)



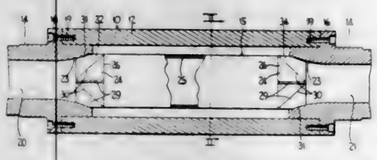
3. A machine for producing filled capsules comprising, a cabinet, a refrigerating unit in said cabinet, a container for capsule forming material movably mounted on said cabinet, means for heating said container, a capsule filling ingredient container carried thereby, a capsule forming nozzle, pumps for pumping the capsule forming material and filling ingredients to said nozzle at intermittent cycles, a receiving container for cooling fluid for receiving capsules formed by the nozzle, means for reciprocably moving said capsule forming material container in step by step

movements so that the capsule forming nozzle will be in successively spaced positions over the surface of the cooling fluid in the receiving container, a motor for operating said pumps and said container moving means, means for independently varying the timing of the pumps and the container moving means so that the movements of the container and nozzle will occur at a selected cyclic period with respect to the cyclic operating periods of the pumps and the cyclic operating period of the pumps may be varied with respect to each other, supports for said cabinet adjustable as to height of the nozzle over cooling fluid in the receiving container may be adjusted, cooling coils surrounding said receiving container supplied with refrigerant from said refrigerating unit, and an endless conveyor for raising capsules formed by the nozzle from the lower part of the container and discharging them therefrom.

2,531,987
FISH HOLDING IMPLEMENT
Jules J. Pilliod, Toledo, Ohio
Application February 20, 1948, Serial No. 9,769
2 Claims. (Cl. 294—106)

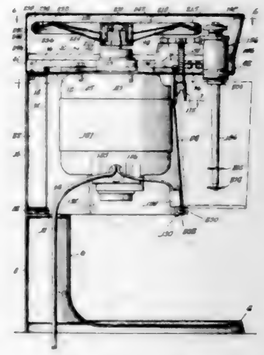
1. A fish holding implement comprising a pair of elongate sheet metal concavo-convex jaws, pivotally connected handle means for operating said jaws, peripheral teeth on each jaw facing in a general direction toward each other, one jaw being wider throughout its length than the other and being arched longitudinally in order to accommodate the transverse curvature of a fish, and the other jaw having a surface to engage a support.

2,531,988
PLATE GLASS SIZING ROLL
Robert J. Price, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application March 13, 1946, Serial No. 654,190
2 Claims. (Cl. 257—95)



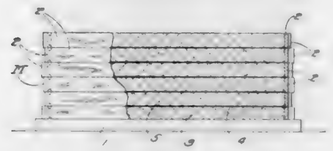
1. A hollow sizing roll comprising a central cylindrical section, a tubular member inside the central section defining therewith an annular space, conical caps mounted on opposite ends of said tubular member, hollow bearing sections bolted to opposite ends of the central cylindrical section and having inlet and outlet openings communicating with said annular space, said bearing sections having inner conical walls spaced respectively in substantially parallel relation from the outer walls of the conical caps, a spider structure extending radially from the caps as rigid parts thereof and defining passages for the communication between the bearing sections and the central section, said spider structure having outer extremities sloped according to the slope of said conical walls, and means connecting the bearing sections in fluid tight relation to the ends of the central section and holding said conical walls in wedging relation with the sloped extremities of the spider structure.

2,531,989
MULTIPLE DRINK MIXING MACHINE
Earl S. Prince and John Brotheridge, Rock Falls, Ill., assignors to Prince Castle Manufacturing Division, Inc., Sterling, Ill., a corporation of Illinois
Application October 4, 1945, Serial No. 620,304
10 Claims. (Cl. 259—131)



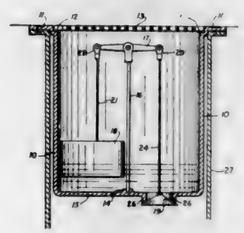
1. A multiple spindle drink mixing machine comprising a base including a relatively flat horizontal tray and an upstanding column, said column having upper and lower spaced apart horizontally extending flanges, a top plate having a central aperture and a marginal upstanding flange and a plurality of spaced apart spindle openings, the opening of the top plate having an upstanding flange, a motor plate having an upstanding flange adapted snugly to fit in the upstanding flange of the top plate, said motor plate having an opening registering with the opening in the top plate, a spider having a circular rim portion and a plurality of radially extending, spaced apart, upstanding brackets and outstanding tongues or lugs, means for securing the spider on the motor plate, a motor mounted on the spider with the shaft of the motor projecting upwardly through the opening in the spider and through the opening in the motor plate, and a housing surrounding the motor, a relatively large driving gear mounted on the upper portion of said motor shaft and a plurality of mixing spindles mounted in said top plate, means forming a toggle joint connection between the upper portions of the upstanding supports on said spider and each of said mixing spindles, a plunger mechanism connected to the central portion of said toggle joint and including a plunger depending downwardly through said top plate, a spring for urging said plunger downwardly to hold said toggle in extended position, a plurality of cup rests mounted on the bottom of said housing, a plurality of relatively smaller driven pinions one mounted on each upper end of said mixing spindles, a spring mounting comprising a leaf spring rigidly connected to the outer end of each rearwardly extending lug on the spider and connected to a spindle whereby resiliently to mount each of the wheels on said spindles normally out of engagement with said central driving wheel and whereby upon operation of said toggle mechanism said small wheels will be thrown into and out of engagement with said main driving wheel.

2,531,990
METHOD OF MOLDING CONCRETE BUILDING UNITS
Edmund J. Rappoli, Medford, Mass.
Application November 18, 1947, Serial No. 786,705
1 Claim. (Cl. 25—154)



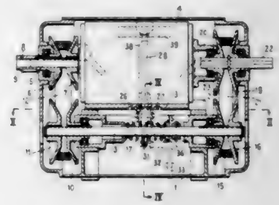
The method of making concrete building units having smooth surfaces on both sides which includes the steps of making a horizontal form, filling the form with concrete, levelling and trowelling the concrete, allowing the concrete to harden sufficiently to bear the weight of a second section, coating the top of the concrete with lacquer, allowing the lacquer to dry to a hard, cohesive film adherent to the top surface of the concrete and non-adherent to the adjacent lower surface of a said second section thereof, building up the sides of the form sufficiently to hold a second section of concrete, filling the upper portion of the form with concrete, allowing the second section of concrete to harden, repeating the steps of coating and molding until a stack is formed, and separating the sections of the stack.

2,531,991
AUTOMATIC DRAIN TRAP
Frederick Joseph Rodwell, Moose Jaw, Saskatchewan, Canada
Application October 21, 1947, Serial No. 781,117
In Canada June 9, 1947
1 Claim. (Cl. 182—16)



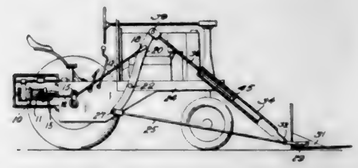
A drain trap comprising a shell member having a discharge opening in its bottom, a horizontal rod disposed diametrically of the upper end of said shell and secured to the walls thereof, a float guide disposed centrally of said shell connected at its upper end to said rod, a cross member pivotally mounted on said rod, a float arm pivotally suspended from one end of said cross member, a float connected to the free end of said float arm, a valve stem pivotally suspended from the opposite end of said cross member in vertical alinement with the discharge opening in the bottom of said shell member, a valve attached to the free end of said valve stem below the bottom of said shell member, and a valve seat surrounding the discharge opening in the bottom of said shell upon which said valve is adapted to seat upon upward movement thereof.

2,531,992
SPEED CHANGE POWER TRANSMISSION
Jean Schlaepfer, Zurich, Switzerland
Application July 3, 1947, Serial No. 758,762
In Switzerland October 30, 1946
6 Claims. (Cl. 74—230.17)



1. A variable speed power transmission unit comprising a stationary structure, a motor including a motor shaft and being mounted to said structure so as to be movable in the direction of said motor shaft axis, a countershaft journaled in said structure so as to be axially shiftable in relation thereto, an output shaft, said three shafts being parallel to each other, split V-pulleys of which one being mounted on each of said motor and output shafts and two on said countershaft in registry with said other pulleys respectively, belts connecting the pairs of registering pulleys respectively, each pulley including two conical discs between which the associated belt engages, one disc of each of said motor shaft and output shaft pulleys being axially movable with said motor, one of the discs of each of said countershaft pulleys being fixed to the latter, all other pulley discs being connected to their associated shafts for common rotation, means to hold said other discs stationary in axial direction relatively to said structure, and manually controllable means to shift said motor in relation to said structure in the direction of the motor shaft axis.

2,531,993
TRACTOR OPERATED LOADING DEVICE
Louie W. Smith, Fort Dodge, Iowa
Application March 21, 1947, Serial No. 736,324
6 Claims. (Cl. 214—131)



2. A loading attachment for tractors including, in combination, a shovel adapted to be carried by a tractor, means exclusive of the movement of the tractor for forwardly moving the shovel in lowered position and thereafter moving the shovel upwardly, said means comprising a source of power carried by the tractor, cables movable by the source of power, levers having upper and lower ends and pivoted intermediate of their ends to the sides of the tractor and operable by said cables, rods interconnecting the lower ends of the levers and the shovel, and extensible linkages interconnecting the upper ends of the levers and the rods adjacent the shovel.

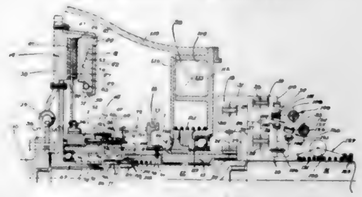
2,531,994
SLIP AND BLOUSE ENSEMBLE
Lillian Stain, San Antonio, Tex., assignor of one-eighth to Mae Ola Stain and one-eighth to Charlie Stain, Jr., San Antonio, Tex.
Application February 18, 1948, Serial No. 9,194
3 Claims. (Cl. 2—73)

1. In a slip and blouse ensemble, a slip including a sleeveless and shoulderless waist portion and a skirt portion, the sides and back of said waist portion being integral with the sides and back of the skirt portion, said waist portion including a removable front having side and bottom edges and provided with breast pockets, said front being separably connected at its side and bottom edges to the front side edge portions of the sides of said waist portion and to the upper edge portion of the front of said skirt portion, shoulder straps attached to the breast pockets, and means to detachably connect said shoulder straps to the upper edge of the back of said waist portion.

2,531,995
FISHHOOK
George A. Sweetman, Trinidad, Colo.
Application July 9, 1948, Serial No. 37,877
1 Claim. (Cl. 43—44.8)

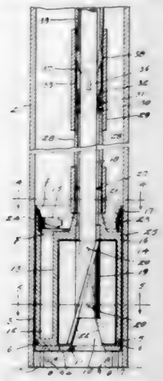
A combined fish hook and bait holder comprising a hook including a shank, a hook portion integral therewith, and a barb on the hook portion; and a bait holder comprising a length of spring wire one end of which is secured to the shank, said spring wire being wound spirally in a series of spring coils upon the shank, said coils terminating approximately abreast of the barb and on the opposite side of the barb, the other end of said spring wire being formed as a spring tongue adapted to pass through a bait and being extended laterally from the spring coils to said barb and being releasably engaged under said barb, the terminal coil being resiliently effective to swing the spring tongue substantially horizontally away from the barb.

2,531,996
VARIABLE-SPEED TRANSMISSION
Charles F. Voytech, Chicago, Ill.
Application July 23, 1945, Serial No. 606,529
18 Claims. (Cl. 74—752)



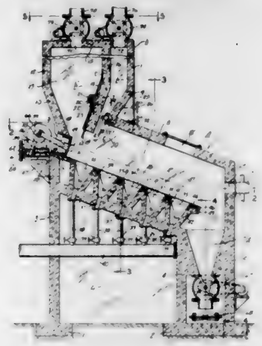
1. A variable speed power transmitting device comprising input and output structures, constant mesh variable speed gearing adapted to provide a plurality of speed ratios between said input and output structures, a plurality of input members connected to the gearing, an output member for the gearing connected to the output structure, a plurality of clutch means for connecting the input members to the input structure, one of said clutch means being operable upon substantial synchronization of the driving and driven parts thereof, a plurality of reaction means associated with the gearing and cooperating with said clutch means to effect the said changes in speed ratio through the gearing, control means for the clutch and reaction means and operating the said one clutch means and at least one of the reaction means in sequence such that the reaction means is operated momentarily just prior to the operation of said one of the clutch means to cause the driving and driven parts of the said one clutch means to reach the synchronization required for operation of the said one clutch means through the associated constant mesh gearing and thereby effect changes in speed ratio while torque is being transmitted to the input shaft.

2,531,997
PUMP
Clarence B. Wade, Malad City, Idaho
Application April 22, 1946, Serial No. 664,020
3 Claims. (Cl. 103—89)



1. In a pump including a vertical casing and a pump cylinder eccentrically located within the lower portion thereof and having a wall integrally formed therewith concentric with the casing and providing a discharge passage between the cylinder and said wall; said wall being provided with an upstanding peripheral flange at its upper end and resilient sealing means carried by the flange and projecting radially of the cylinder above the flange to bear against the inside of the casing.

2,531,998
CARBONIZATION APPARATUS
George W. Wallace, Benton, Ill.
Application September 20, 1945, Serial No. 617,603
5 Claims. (Cl. 202—99)

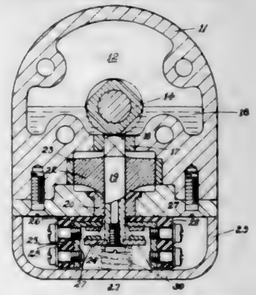


1. An apparatus for the carbonization of carbonaceous material comprising a closed carbonizing chamber, the bottom of which consists of a stationary inclined foraminous grate arranged at an angle to the horizontal sufficient to cause the material to move down the grate with a minimum amount of sliding friction but less than the angle of repose of the material so as not to cause such material to move by gravity, a feed spout adjacent the upper end of the grate for depositing a regulated quantity of the carbonaceous material onto said grate, a plurality of stationary troughs below the grate, each trough having a separate valve to control the amount of gases passed downwardly through the material as it passes over the grate at the zone above each trough, pusher means adjacent the upper end of the grate for causing said material to travel over said grate, and means for admitting hot gaseous products of combustion into said chamber and causing said gases to pass downwardly through said material and grate.

2,531,999
MANUFACTURE OF CRYSTALLINE DEXTROSE
Leo Wallerstein, New York, N. Y., assignor to Wallerstein Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application October 13, 1947, Serial No. 779,635
8 Claims. (Cl. 195—11)

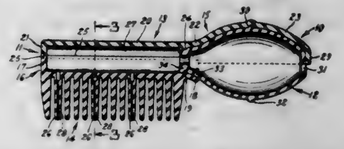
1. A method of making crystalline dextrose which comprises subjecting an aqueous dispersion of a substance of the group consisting of starches and conversion products thereof to the action of a microbiological enzyme preparation having starch-glucogenase activity equivalent to an initial reaction value "k" of at least 1.0 to convert a substantial proportion of the substance to dextrose, maintaining the product thus obtained at crystallizing temperature until a substantial proportion of discrete dextrose crystals have formed, and separating the dextrose crystals from the mother liquor.

2,532,000
CAM OPERATED SWITCH CONTACT
Harold Edward William West, Allestree, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application July 29, 1946, Serial No. 687,018
In Great Britain May 24, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1964
2 Claims. (Cl. 200—30)



2. A cam-operated contact-breaker for the ignition system of an internal combustion engine comprising in combination a magneto casing; a shaft entering said casing and borne for rotation in said casing; a cam on said shaft; a push-rod engaged by said cam to move said push-rod in the direction of its longitudinal axis; bearing means in said casing, one such means located near each end of said push-rod and operative to guide said push-rod in movement along its longitudinal axis; an annular rubber-like oil impervious flexible diaphragm bonded to said push-rod in oil tight manner at inner edge, being located in said casing between said bearing means in a plane at right angles to the longitudinal axis of said push-rod, and having an annular metal ring bonded to its outer edge; an annular recess in said casing to receive said metal ring so as to restrain said flexible diaphragm from movement in the axial direction of the push-rod except by deformation of the diaphragm material, and whereby there is formed in said casing two chambers separated in oil tight manner, one of said chambers accommodating said shaft and cam and constituting an oil-bath therefor; electrical contacts in the second chamber, said contacts being operated by said cam through said push-rod; and removable cover means to said second chamber to provide access to said chamber for assembly and adjustment of said electrical contacts.

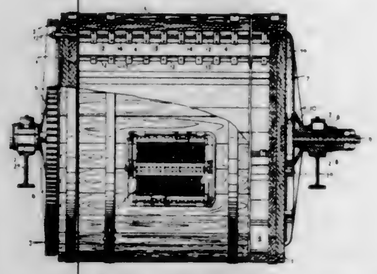
2,532,001
INSECTICIDE COMB-APPLICATOR
Norman Williams, Stratford, Conn.
Application May 18, 1949, Serial No. 93,905
1 Claim. (Cl. 119—86)



In an insecticide comb-applicator, upper and lower sections each comprising a semi-cylindrical body portion having a wall at one end and a semi-cylindrical tapered portion at its other end, said sections secured together with their open

sides in opposing relation whereby a hollow cylindrical receptacle closed at one end and having a tapered entrance throat at its opposite end is formed, semi-circular ribs on the inner surfaces of said sections at the inner ends of said tapered portions and in opposed relation and in said receptacle defining a choke ring, teeth extending from the underside of the lower section, passages communicating at their inner ends with the interior of said receptacle and extending longitudinally entirely through spaced ones of said teeth, a rigid hollow shell-like extension integral with the outer larger diameter end of the tapered portion of the other body section, said extension comprising a semi-bulbous structure having an arcuate inner surface and open through its lower side and having an outer end wall opposite and facing said tapered entrance throat, a flexible bulb partly received in said shell-like extension and seated against its arcuate inner surface portion and including a tapered portion received in said flared portion and a neck portion beyond said tapered portion and extending inwardly of said tapered portion and through said choke ring, and said bulb of a length whereby to have an outer end surface pressing against said outer end wall of said extension whereby the bulb is yieldingly maintained with its tapered portion seated in said flared entrance.

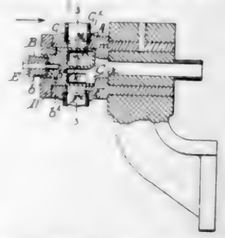
2,532,002
ROTARY LIQUID TREATING DRUM
Evan George Wilson, Liverpool, England
Application August 25, 1948, Serial No. 46,055
In Great Britain August 25, 1947
6 Claims. (Cl. 69—30)



1. In combination with a rotary liquid container, a self-clearing grid for the drainage of liquid, such a grid comprising a plurality of hingedly supported rods which, when in closed position, co-operate to form a grating.

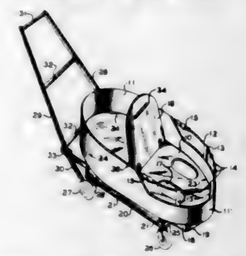
2,532,003
MEANS FOR USE IN APPLYING, ALTERNATIVELY, AIR PRESSURE AND SUCTION TO A GIVEN POINT
John M. Wyer, Perton, Pattingham, near Wolverhampton, England
Application September 30, 1946, Serial No. 700,222
In Great Britain October 3, 1945
3 Claims. (Cl. 251—96)

1. A valve for use in applying, alternatively, air pressure and suction to a given point, said valve comprising an outer shell, a plug rotatable in said outer shell, two pipes leading to said shell, one of which is an air pressure pipe, and the other of which is a suction pipe, said shell being closed at one end, a passage leading from the other end of the said shell to the point where the pressure or suction is to be alternatively applied, a port in said shell communicating with the atmosphere, ports in said plug so arranged that, at one position of the plug, the pressure pipe is put in connection with the point of application while the suction pipe is put in communication with the atmosphere so that air can flow back along the suction pipe; while, at another position of the plug, the suction pipe is put in communication with the point of applica-



tion and the pressure pipe with the atmosphere and an auxiliary port through said shell open to the atmosphere positioned between said two pipes and arranged to communicate with said ports of said plug when said plug is rotated to a position wherein the ports of said plug begin to communicate with said pressure or suction pipes to prevent a sudden application of pressure or suction to said point.

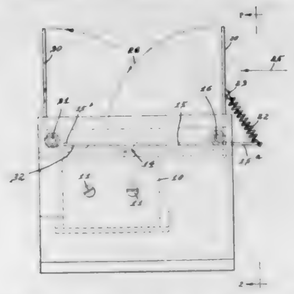
2,532,004
CHILD'S VEHICLE AND PARCEL CARRIER
William J. Zepp, Yorktowne Village, Md.
Application September 27, 1946, Serial No. 699,886
8 Claims. (Cl. 155—22)



4. A vehicle comprising a body having side walls and a bottom, a pair of holes in the forward portion of said bottom constructed and arranged to receive the legs of a person, a member hingedly mounted laterally of said bottom, said member being movable from a substantially horizontal position to a substantially upright position to form a backrest and a partition between the forward and rear portions of said body and constructed and arranged when in horizontal position to overlie said holes thus providing an imperforate bottom surface running gear attached to said body and including ground-engaging wheels and a handle removably attached to said running gear.

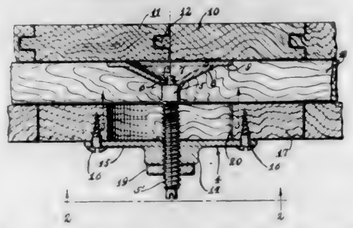
2,532,005
TARGET OPERATED SWITCH FOR BOX-MAKING MACHINES
Angelo Bascetta, Brooklyn, N. Y., assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York
Application May 7, 1949, Serial No. 92,003
3 Claims. (Cl. 200—52)

2. A switch operating device adapted to operate a switch in accordance with the movement of a unit relative thereto; said device comprising a switch; a longitudinal operating arm; and a pair of control arms extending substantially normal thereto and in the path of said unit; a first pivot for the operating arm adjacent the first end thereof; said arm being rotatable about its pivot toward and away from the switch; said pivot also rotatably supporting the first of said control arms; and a second pivot for the second control arm adjacent the second end of the operating arm; the said first and second pivots being substantially aligned with the operating arm; the operating arm extending substantially between the first and second pivots but less than



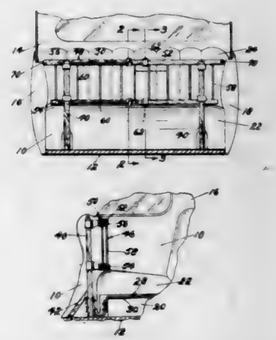
the full distance between the said pivots; the first end of the operating arm having an extension beyond the first pivot on the side thereof away from the second pivot; a tension spring between said extension and said first control arm; the second control arm having an angular extension directed toward said operating arm and extending in surface to surface relation therewith on the side thereof opposite that from which the tension spring extends; said first control arm when moved in a direction to tension said spring moving said operating arm about its pivot in one direction; said second control arm when moved about its own pivot in the same direction restoring said operating arm to its original position.

2,532,006
DEVICE FOR ELIMINATING SQUEAKS FROM BOARD STRUCTURES
Harland E. Beach, Valparaiso, Ind.
Application March 5, 1947, Serial No. 732,428
4 Claims. (Cl. 20—6)



1. In combination, a sub-flooring, flooring made up of jointed floor boards mounted thereon in spaced relationship with respect to the said sub-flooring, and an anti-squeak device comprising, a circular flanged element rigidly secured to the said sub-flooring, adjusting means secured to the said flanged element and terminating in a reduced shank portion, a frusto-conical supporting element secured rotatably to the reduced shank portion of the said adjusting means, and locking means to retain the said adjusting means in varied positions within the range of adjustment and disposed in contactual relationship under pressure directly below a point in a line of juncture of a pair of the said floor boards.

2,532,007
ACCESSORY FOR CONVERTING A VEHICLE SEAT INTO A PLAY PEN OR CHILD'S BED
La Verne R. Biasell, Detroit, Mich.
Application June 27, 1947, Serial No. 757,632
6 Claims. (Cl. 5—94)



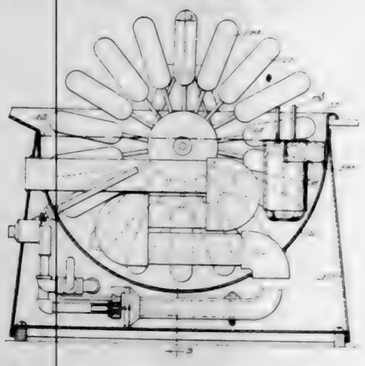
1. An attachment for a seat supported on a base, a pair of spaced resilient brackets having flat elongated shanks adapted to be slipped between the seat and the base, uprights supported by the brackets and a longitudinally adjustable shield supported on the uprights.

2,532,008
METHOD OF MANUFACTURING HOSIERY
Robert E. Claussner, Paducah, Ky., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application July 23, 1949, Serial No. 106,401
13 Claims. (Cl. 112—262)

1. In a method of manufacturing hosiery the steps comprising transporting a predetermined number of hosiery blanks tied together at their upper ends to obtain a bundle of freely hanging blanks to a looper machine of an operating unit that comprises said looper machine and a plurality of seaming machines so arranged with respect to the looper machine that the looper machine operator may pass quantities of hosiery blanks to each seaming machine operator while said operators are positioned at their respective machines, looping at least the toe portion of each blank in the bundle, said blanks remaining tied together during such looping, passing a bundle of looped blanks directly to any selected one of the seaming machine operators, untying the bundle and seaming the blanks at the selected seaming machine, retying looped and seamed blanks

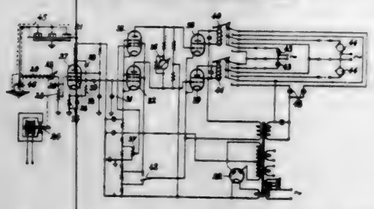
into a bundle at the seaming machine and suspending the bundle adjacent the seaming machine so that the individual looped and seamed blanks hang freely.

2,532,009
METHOD OF COOKING
Murray G. Clay, River Forest, Ill.
Application February 4, 1947, Serial No. 726,305
1 Claim. (Cl. 99—107)



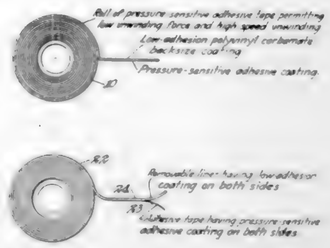
The method of cooking a comestible comprising a wiener impaled end-to-end on a skewer and having a water-containing batter coating, which method comprises placing the batter-coated wiener in a pool of hot fat with the skewer thereof projecting upwardly out of the pool, retaining the coated wiener stationarily in the pool of hot fat until it floats therein as a result of increased buoyancy due to vaporization and consequent removal of a portion of the water content of the batter coating, then continuously conveying the coated wiener through the hot fat for a predetermined period of time of sufficient duration to complete the cooking of the wiener, and thereupon withdrawing the wiener from the hot fat.

2,532,010
DETERMINATION OF MOISTURE CONTENTS
Frédéric Courvoisier, Zurich, Switzerland
Application July 1, 1947, Serial No. 758,283
In Switzerland April 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 17, 1964
12 Claims. (Cl. 34—25)



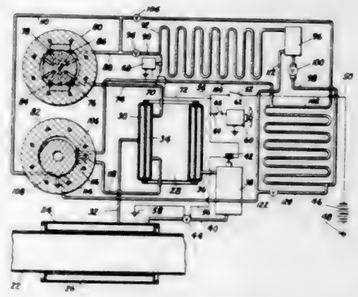
1. In a machine having a condenser electrically and continuously connected to a predetermined portion of a moving strip of material, the method of actuating at least one member in accordance with the moisture contents of runs of material which by the friction caused by their motion receive an electrostatic charge depending on their moisture contents, which consists in charging said condenser by the electrostatic voltage produced on the run of material, transforming said electrostatic voltage into an alternating voltage proportional thereto by continuously and cyclically varying the capacity of said condenser, amplifying said alternating voltage, and employing said amplified voltage for actuating said member.

2,532,011
LINERS AND ADHESIVE TAPES HAVING LOW ADHESION POLYVINYL CARBAMATE COATINGS
Carl A. Dahlquist, St. Paul, James O. Hendricks, White Bear Lake, and William E. Sohl, Birchwood, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application September 7, 1946, Serial No. 695,522
10 Claims. (Cl. 154—53.5)



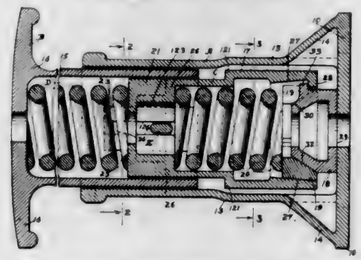
3. In combination with a pressure-sensitive adhesive coating, a removable liner having a low-adhesion surface coating in removable contact with said adhesive coating, said low-adhesion surface coating being formed of a hydrophobic polyvinyl carbamate having nitrogen-linked hydrocarbon side chains which provide terminal alkyl groups more than 5 carbon atoms in length.

2,532,012
AIR CONDITIONING SYSTEM
Don E. Dasher, Birmingham, Mich.
Application February 20, 1948, Serial No. 9,801
2 Claims. (Cl. 257—3)



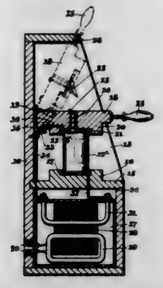
1. In a heating and cooling system, a source of heat, a water jacket surrounding the source of heat, a water jacketed liquid container having its jacket connected to the jacket associated with the source of heat, a receiver and a valve connected in series between the jackets, a switch controlled by pressure in the receiver and an electric circuit including the switch and valve.

2,532,013
BUFFER
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application June 4, 1945, Serial No. 597,527
2 Claims. (Cl. 213—221)



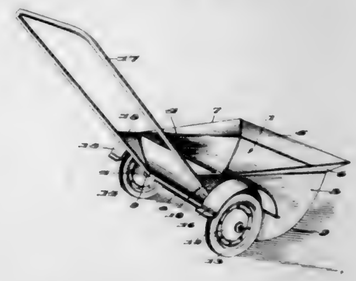
1. In a buffer for railway cars, the combination with a housing open at the front end and closed at the rear end; of a buffer head including a sleeve slidingly telescoped within the housing, said sleeve having aligned, diametrically opposed, longitudinally extending slots in the side walls thereof; a key extending through the slots of said sleeve and having its opposite ends fixed in the housing walls, said slots being closed at the rear ends to limit outward movement of the buffer head by said key; a friction shock absorber within the housing including a friction casing open at the rear end, friction shoes slidable within the open end of the casing, a wedge block in wedging engagement with said shoes, said block being buttressed against the closed rear end of the housing, spring means opposing movement of said shoes inwardly of the casing, said casing being longitudinally slotted to accommodate the locking key; and a spring within the buffer head opposing relative movement of the friction casing and head.

2,532,014
APPARATUS FOR HEATING CANNED FOODS
Robert L. Davis, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application June 18, 1949, Serial No. 99,955
2 Claims. (Cl. 219—19)



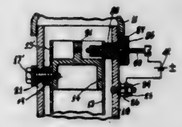
1. Apparatus for heating food sealed in a metal can, comprising: a stationary element adapted to support the can in upright position thereon and having an electrode electrically contacting the bottom of the can thus supported; a movable element having an electrode adapted to electrically contact the top of the can when the movable element is moved to contacting position, said movable element having also means thereon for piercing the top of the can when said movable element is moved toward contacting position; and means for supplying electrical current of high amperage and low voltage to said electrodes to complete an electrical circuit through said can.

2,532,015
TILTABLE WHEELED HANDCART
Earl De Lay, Columbia, S. C.
Application November 1, 1948, Serial No. 57,661
6 Claims. (Cl. 280—51)



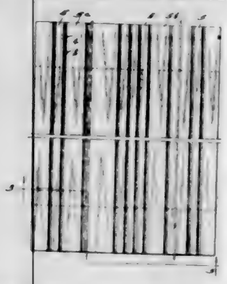
1. A cart comprising a body portion having a rounded bottom, an axle secured to said rounded bottom adjacent one end thereof, said axle being positioned rearwardly of the center of gravity of said cart whereby said rounded bottom will normally rest on a supporting surface, wheels mounted on said axle, the size of said wheels and position of said axle being such that the upper marginal edges of said body portion are substantially level when said rounded bottom is resting on a supporting surface, a handle extending upwardly and rearwardly from said body portion, and means securing said handle to said body portion.

2,532,016
ELECTRICAL LIQUID TREATING DEVICE
William Dubilier, New Rochelle, N. Y.
Application June 5, 1945, Serial No. 597,695
6 Claims. (Cl. 204—305)



1. A device for electrically treating a liquid stream comprising a pair of spaced main electrodes forming a main liquid gap, a conduit including said gap and extending from opposite ends thereof for restricting the entire liquid stream to be treated to said gap in exposed contact with said electrodes, auxiliary electrode means within said conduit being spaced from said main liquid gap and substantially electrically independent therefrom, the liquid gap formed by said auxiliary electrode means having a cross-section and length to provide an electric resistance being a substantial multiple of the electric resistance of said main liquid gap, and series circuit means for connecting said main electrodes and said auxiliary electrode means to a voltage source.

2,532,017
PANEL FOR SIDINGS AND ROOFS
Armin Elmendorf, Winnetka, Ill.
Application July 10, 1947, Serial No. 760,129
3 Claims. (Cl. 20—91)



1. A short, wide rectangular panel composed of a single layer of wood boards from three sixteenths to three eighths inch thick, wherein the grain runs lengthwise thereof, said panel having in each face parallel grooves most of which are spaced apart from three sixteenths to three quarters inch, the panel being of the same width as a similar ungrooved panel, each groove being opposite a groove in the other face and of such a depth that a thin layer of wood between and parallel to the faces of the panel remains intact and transforms the wood into strip-like elements alternating with much thinner and weaker web sections, and stiff wood strips extending across the end portions of the panel transverse to the grooves and bonded to all the strip-like elements so as to anchor each such element against bodily lateral displacements; whereby all the strip-like elements may expand normally in the area between the transverse strips to crush the web sections, when the panel takes up moisture, and the said elements may contract and rupture the web sections when the wood dries excessively.

2,532,018
PLASTICIZED RESIN COMPOSITIONS
Don E. Floyd, Robbinsdale, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application November 19, 1949, Serial No. 128,499
7 Claims. (Cl. 260—31.8)

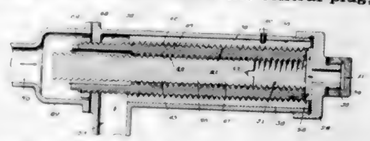
1. A polyvinyl resin composition plasticized with a compound having the following formula:

$$R^1\text{—}C(COOR^2)(CH_2CH_2COOR^3)(COOR^4)$$

in which R^1 is an aliphatic hydrocarbon substituent containing from 10 to 16 carbon atoms, and R^2, R^3 and R^4 are selected from the group consisting of aliphatic and cycloaliphatic hydrocarbon groups containing from 1 to 8 carbon atoms.

2,532,019
PRESSURE REDUCING DEVICE FOR REFRIGERATING APPARATUS
Herman M. Goldberg, Chicago, Ill., assignor to Standard Refrigeration Company, Inc., Chicago, Ill., a corporation of Illinois
Application April 15, 1949, Serial No. 87,815
5 Claims. (Cl. 138—43)

1. A restrictor valve for refrigerating apparatus for controlling the flow of fluid in a refrigeration system comprising a centrally disposed tube having interior screw threads, a central plug having exterior screw threads engageable with the interior screw threads of the tubular member, the screw threads of one of said members being uniformly flattened to provide a spiral passage of uniform cross-section about the central plug, ex-

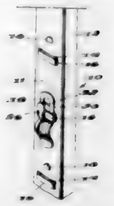


terior screw threads on the tube and engaging screw threads on an outer surrounding member, the screw threads on one of said latter members being uniformly flattened to provide a spiral passage of uniform cross-section about the outside of the tube member.

2,532,020
CLIP
Willard R. Gunderson, Dallas, Tex., assignor to The Frito Company, Dallas, Tex., a corporation of Texas
Application June 13, 1949, Serial No. 98,865
2 Claims. (Cl. 24—259)

1. A clip formed of spring metal adapted to encircle a portion of a supporting member wherein articles may be supported on either side of the member by the clip, said clip comprising a body portion of flat stock bent about itself to form an opening of substantial depth parallel to the face of the stock adapted to encircle a portion of a supporting member, a pair of arcuately shaped gripping jaws depending from said body portion in parallel alignment with the axis of said opening, and finger tabs extending upwardly from the free end of said gripping jaws adapted to be moved relatively inwardly to contact the arcuate portion of said jaws for spreading the same.

2,532,021
SUPPORT
Willard R. Gunderson, Dallas, Tex., assignor to The Frito Company, Dallas, Tex., a corporation of Texas
Application June 13, 1949, Serial No. 98,866
4 Claims. (Cl. 211—89)



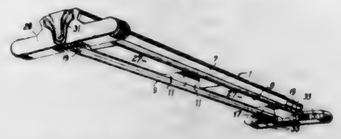
1. In combination, a supporting member; a spring clip; said supporting member comprising a strip, a pair of substantially parallel slits formed transversely in said strip, the portion of said strip lying between said slits being raised

to form a bridge on the surface of said strip, an ear formed from said strip and positioned above said bridge; said spring clip having a slotted body portion positioned beneath said bridge and extending above the same with said ear engaging said slot to secure said clip to said strip, said clip having a gripping jaw positioned below said bridge for releasably supporting an article between said jaw and said strip.

2,532,022
DISPLAY SUPPORT
Willard R. Gunderson, Dallas, Tex., assignor to The Frito Company, Dallas, Tex., a corporation of Texas
Application June 13, 1949, Serial No. 98,867
7 Claims. (Cl. 211—87)

1. In an article display device, the combination of a supporting member and a resilient clip member, said clip member having a body portion surrounding a portion of said supporting member and being frictionally secured thereto, a pair of gripping portions formed integrally with said body portion, said gripping portions being positioned on opposite sides of said supporting member to resiliently contact said supporting member thereby forming a releasable article support wherein an article may be supported for display purposes on either side of said supporting member, and means for supporting said supporting member in display position.

2,532,023
LUMINAIRE FOR ELONGATE TUBULAR LAMPS COMPRISING TELESCOPED EXTENSIBLE SECTIONS
Edwin F. Guth, Jr., Ladue, Mo., assignor to The Edwin F. Guth Company, St. Louis, Mo., a corporation of Missouri
Application March 18, 1949, Serial No. 82,216
5 Claims. (Cl. 240—51.11)



5. A luminaire for elongate tubular fluorescent and similar lamps comprising two elongate sheet metal slide members of generally hollow inverted U-shape, a lamp ballast equipment unit mounted in each of said slide members, a central elongate sheet metal guide member also of hollow inverted U-shape adapted at opposite ends internally to receive the respective slide members in telescoping relation, supporting end plates which are respectively attached to the outer ends of the slide members and carrying lamp sockets below the lower edges of the U-shapes, latching means cooperating between the respective slide members and the guide member adapted to predetermine the extended positions of the slide members relative to the guide member, said slide members being movable with respect to said guide member from extended latched positions wherein the lamp sockets are spaced apart a distance adapted to accept the lamps and in the absence of lamps to retracted telescoping positions in the guide member wherein they abut one another and wherein the lamp ballast equipment units are contained within telescoped slide and guide members, said slide and guide members being formed at the lower edges of their U-shapes as beads, and a pair of reflector plates of flexible sheet material having snap-on lips adapted to be snapped onto the beads of the slide and guide members, said reflector plates being located above the lamps, abutting centrally within the confines of the guide member and extending substantially to the end members.

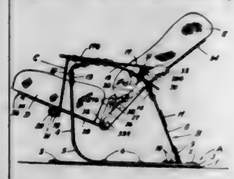
2,532,024
LEG PROTECTOR
Olive E. Hoffman, Chicago, Ill.
Application May 24, 1948, Serial No. 28,783
1 Claim. (Cl. 36—2)

A leg protector comprising a sheet of flexible material having substantially parallel sides and a strap attached to one of said parallel sides, a substantially straight upper edge and the opposite edge having a relatively large and small scallop, said small scallop being formed with a full portion to accommodate the heel of a shoe, a first snap fastener element located at one end of said small scallop, said relatively large scallop having a complemental snap fastener element at one end thereof remote from the end of the small scallop having said first element for cooperation with said first snap fastener element to maintain the relatively large scallop over the shank, a resilient member attached at its ends to the terminals of the large scallop to underlie the shank, and a tuck extending partially within said large scallop to fit the front portion of the ankle.

2,532,025
RESILIENTLY MOUNTED RECLINING CHAIR
Arthur E. Johnson, St. Louis, Mo., assignor of forty one-hundredths to Dorothy K. S. Johnson, St. Louis, Mo.
Application February 3, 1945, Serial No. 575,986
10 Claims. (Cl. 155—54)

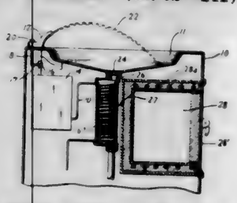
8. A reclining chair comprising substantially quadrilateral upright side frames and a seat and a back located between and sustained by said side frames, said frames comprising top, bottom and front and rear side portions that incline forwardly and upwardly from said bottom

portions to said top portions and are movably connected at the four corners of said frames, one of said corner connections comprising a resilient portion integrally connecting adjacent frame portions, whereby said frames are distortable forwardly and downwardly under the



weight of an occupant of said chair and will recover their normal shape when relieved of such weight, upwardly arched spring plates forming the top portions of said frames, and means for suspending said seat and back from said spring plates for vertical tilting and forward and backward sliding movement relative thereto.

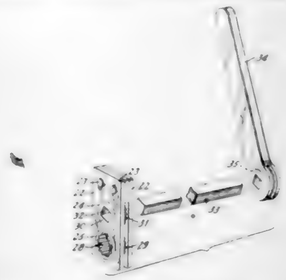
2,532,026
PRECOOLER WITH INTERNAL FINS
Heinrich J. Kellershon, Douglaston, N. Y.
Application July 3, 1948, Serial No. 36,882
8 Claims. (Cl. 62—141)



1. In a water cooler of the type including a refrigeration unit, a supply pipe through which water is delivered to the refrigeration unit, and a drain for waste water, the combination with said drain of a pre-cooler through which the water from the drain is discharged, said pre-cooler comprising a cylindrical chamber having a helical conduit in heat-exchange relationship with the outside wall of the pre-cooler, the upper end of said helical coil being connected with the supply pipe to the refrigerating unit, and the lower end of said helical conduit being connected with a water main, a plurality of fin elements located in the pre-cooler and connected with the inside wall of the pre-cooler, each of said fin elements comprising a metal member having a bend providing a high ridge across the fin element and fins sloping downward on both sides of said ridge, said fins sloping downward to the sides of the pre-cooler, and said fins having openings therein in staggered relation with one another so that the surfaces of successive fins extend under the openings in the respective fins above them for the drainage of water through each fin into contact with the surface of the fin immediately below it.

2,532,027
GEARED SOCKET WRENCH
Joseph V. Maddox, Detroit, Mich., assignor of one-fifth to Bacheer Michael, Detroit, Mich.
Application June 16, 1948, Serial No. 33,383
1 Claim. (Cl. 81—57)

A socket wrench of the kind described, comprising a casing including two rectangular plates held in parallel relation to each other, each plate having a plurality of circular openings, each opening in one plate being in register with and forming a pair with a similar opening in the other plate, a cylindrical member disposed in each pair of said openings, the ends of the cylindrical members being flush with the respective surfaces of the plates, one of the cylindrical members having an axially disposed



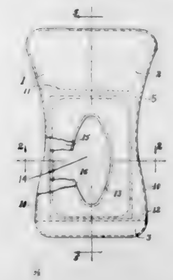
aperture therein for insertion of a driving rod the aperture being shaped to fit the contour of the end of the rod, another cylindrical member being hollowed at one end to form a socket for application to a nut, each cylindrical member including in mid-section thereof, between said plates, a toothed ring, the teeth of each ring being in mesh with the teeth of the adjoining ring.

2,532,028
MOUNTING FOR PRICE TAG MOLDINGS
Donald L. Mapson and Charles E. Buckmeyer, Los Angeles, Calif., assignors to M & D Display Manufacturing Corporation, Alhambra, Calif.
Application February 3, 1947, Serial No. 726,050
1 Claim. (Cl. 40—13)

A hinge for mounting a price tag moulding on a shelf edge comprising: a leaf pivotally mounted on said shelf, a flange at one side of said leaf and a tongue at a side of said leaf opposite said flange, said flange and tongue being spaced to receive and retain a price tag moulding therebetween, said price tag moulding normally overlying the front edge of said shelf and being movable about said pivot to expose said shelf edge.

2,532,029
DIAPER
Louis I. Medoff, Cambridge, Mass.
Continuation of application Serial No. 723,920, January 24, 1947. This application March 6, 1947, Serial No. 732,864
2 Claims. (Cl. 128—287)

1. A diaper comprising an elongated body member shaped to pass through the crotch and up the front and back of an infant, said body member comprising two plies of fabric which are stitched together along opposite side edges and also along two widely separated transverse lines to form between them a pad-holding pocket, the inner ply which contacts with the infant having a pocket opening, the dimensions of which both lengthwise and transversely of the body member are less than that of the pocket, a protective envelope loosely received within the pocket but unattached to the body member and removable from the pocket through the pocket opening, said envelope having inner and outer sides formed of material which is impervious to water and having an opening in the inner side which is of the same size as the pocket opening and registers therewith, the inner ply of the body member



covering all of the inner side of the envelope surrounding the opening therein, and a pad of absorbent material removably retained in the envelope, a portion of said pad being exposed through the registering openings, said envelope providing an impervious shield between the pad and both the inner and outer plies of the body member.

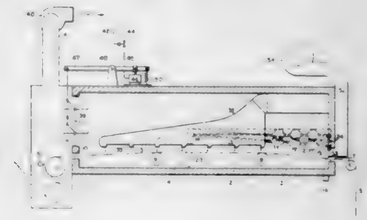
2,532,030
DEVICE IN EASELS FOR CARRYING PICTURES
Nils Adrian Nilsson, Stockholm, Sweden, assignor to Aktiebolaget Wilh Becker, Stockholm, Sweden
Application December 13, 1945, Serial No. 634,710
In Sweden July 2, 1945
1 Claim. (Cl. 248—195)

A device in easels for carrying panels of the kind which has a sleeve arranged on each slotted front leg of the easel and being displaceable along said leg, comprising projections on said sleeve, a pivot pin in front of said sleeve carried by said projections, a flange carried by said projections, a two-armed lever carried by said pivot pin, one of the arms of said lever being somewhat longer than the distance between the pivot pin and the leg and being adapted to snap into the slots in the leg, and the other arm is arranged to support the panel and rests on the said flange in the position in which the panels are carried.

2,532,031
SEPARATION OF C_8H_{10} AROMATIC HYDROCARBONS BY EXTRACTIVE DISTILLATION
Alan C. Nixon, Berkeley, Carl H. Deal, Jr., Alameda, and Roy J. Evans, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 6, 1948, Serial No. 19,434
8 Claims. (Cl. 202—39.5)

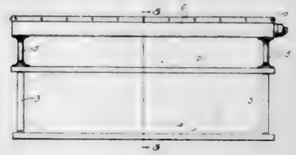
1. A process of separating ethyl benzene from a mixture of isomeric aromatic hydrocarbons having the empirical formula C_8H_{10}, which process comprises extractively distilling said mixture in contact with a liquid phase consisting essentially of antimony trichloride as selective solvent, thereby producing a distillate portion which is substantially enriched in ethyl benzene and an extract portion which is substantially enriched in xylenes and recovering the xylenes from said extract portion.

2,532,032
APPARATUS FOR DRYING WEBS
Bernard Offen, Chicago, Ill.
Application January 28, 1947, Serial No. 724,787
17 Claims. (Cl. 34—13)



14. In a method of drying a web, the steps which comprise directing radiant heat over the surface of a web in a first drying stage, directing air heated to a predetermined temperature over a surface of the web in a second drying stage, then, when travel of the web through the stages is interrupted, substantially instantaneously discontinuing the supply of air heated to such temperature over the web, moving the radiant heating means away from the web, and directing relatively cold air over the surface of the web in the first drying stage thereby permitting substantially instantaneous stopping of the web in the chamber without injury to the web by radiant heat.

2,532,033
FOOD CONDITIONING APPARATUS
Robert D. Parks, Concord, Mass.
Application December 4, 1946, Serial No. 713,995
1 Claim. (Cl. 219—34)



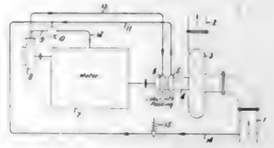
A food conditioning apparatus for restaurants, and the like, comprising an elongated, approxi-

mately horizontal base adapted to support simultaneously served dishes containing food, a casing having side members and a detachable top mounted above said base, an elongated reflector, concave in vertical transverse section, detachably secured to said side members, a horizontal heating unit positioned by means of transverse bars mounted on said side members beneath said reflector and extending parallel to said base and substantially the same longitudinal distance as said base, said side members extending downwardly at opposite sides of said unit to a level below said unit thereby protecting the employees from accidentally touching said unit, said casing and said base being separated vertically by a distance providing ample space between them, open at opposite sides, for the placement of orders laterally from either side upon the base and the removal of said orders therefrom, said base having an upper surface which reflects heat generated by said unit directly against the food containers and said reflector being positioned so as to direct heat downwardly upon the food containers, and solid insulating material positioned between the upper surface of said reflector and the adjacent surfaces of said casing thereby preventing the transmission of heat from the unit to the outside surfaces of said casing, a sub-base, legs mounted on said sub-base and supporting said base in an elevated position above the sub-base to form an elongated table providing storage space under the base.

2,532,034
STEERING FORK
Ewald F. Pawsat and Ruben L. Pawsat, Maysville, Ky.; said Ruben L. Pawsat assignor to said Ewald F. Pawsat
Application August 6, 1948, Serial No. 42,764
2 Claims. (Cl. 280—279)

1. A steering assembly comprising a one-piece inverted U-shaped sheet metal fork, lengthwise edges of said fork being rolled inwardly to form lengthwise strengthening beads along the inner sides of said fork, said beads being spaced at the crown of the fork, said fork having an opening at the center thereof between opposite beads, and a cylindrical stem mounted in said opening and extending upwardly from said fork, a lower end of said stem extending between the beads, the beads being deformed arcuately at the crown to form arcuate bearing surfaces and embracing opposite sides of the lower tip of the stem to hold the stem and the fork in assembled relation.

2,532,035
BLOWER FOR COMPRESSED COMBUSTIBLE GASES
Hans Pfenninger, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application May 9, 1946, Serial No. 668,387
In Switzerland May 15, 1945
6 Claims. (Cl. 230—48)



1. Apparatus for conveying a combustible gas under pressure comprising a conveying blower having an inlet thereto for the gas to be conveyed and an outlet therefrom for said gas, said blower having a stuffing box, an internal combustion engine connected to drive said blower, and a conduit communicating between the interior of said stuffing box at a point at which the gas is at a substantial superatmospheric pressure and said engine.

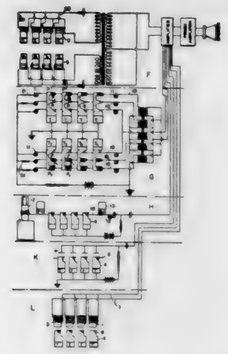
2,532,036
PROCESS OF PREPARING POLYHYDRIC ALCOHOLS
John Robert Roach and Harold Wittcoff, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
No Drawing. Application October 24, 1946, Serial No. 705,487
10 Claims. (Cl. 260—615)

6. Process of producing substantially pure polyhydric alcohols from allyl ethers which comprises reacting a substantially pure allyl ether with a hypohalous acid at a temperature between about 0° C. and room temperature to form the halohydrin of the allyl ether, removing inorganic material from the reaction mixture, and hydrolyzing the residue to the polyhydric alcohol.

2,532,037
EXTENDIBLE ERASER
Jesse J. Robbins, Glendale, Calif., assignor to Stylofede Corporation, Glendale, Calif., a corporation of California
Application November 10, 1945, Serial No. 627,828
4 Claims. (Cl. 120—38)

2. An eraser supporting and displacing mechanism comprising, a casing having a bore opening to an end thereof, a nut member having an internally threaded opening and being journalled for rotation relative to said casing with said opening aligned with said bore, a tubular cap detachably secured to said member for rotation therewith and having an interior bore aligned with said casing bore and member opening, a U-shaped screw member having a pair of spaced substantially parallel legs formed with teeth threadably engaged in said first member opening for longitudinal reciprocation in said bores, guide means provided in said casing bore engageable with said legs and restraining said screw member against rotation relative to said casing, the opposite end of said screw member being positioned in said cap bore, and an eraser mounted for reciprocation in said cap bore and detachably secured to said last-named end of said screw member.

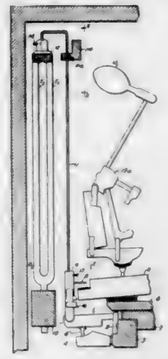
2,532,038
METHOD AND APPARATUS FOR PRODUCING ELECTRICAL WAVES OF PREDETERMINED FORMATION
Dickran Sebouh, New York, N. Y.
Application March 27, 1945, Serial No. 585,098
9 Claims. (Cl. 84—1.28)



1. An apparatus for producing electrical waves which comprises a plurality of condensers having as a plate in common a wire disposed so as to constitute the stationary plate of each and every one of said condensers, a plurality of vibrating elements each having a plate extending laterally from it and extending near said wire to form the vibrating plate of one of said condensers, means for producing an electric field between the wire and the vibrating plates, the latter having predetermined wave forms along their edges to vary by their vibratory action and in conformity with the dimensional variations in said wave forms the capacity of the condensers and thereby the value of the current flowing in the circuit containing the wire whereby electrical waves are produced in said circuit.

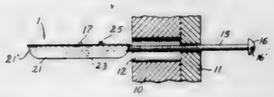
2,532,039
DAMPER ACTION FOR TUNING FORK PIANOS
Dickran Sebouh, New York, N. Y.
Application October 26, 1946, Serial No. 705,954
10 Claims. (Cl. 84—409)

1. In combination, a key frame; keys above and transverse to said frame; tuning forks mounted to the rear of the keys and having upwardly pointed tines having upper end faces in the same horizontal plane; a hammer action connected to and above each key having a hammer adapted to strike an adjacent tine in the plane of the key; a damper rail frontward of the forks and provided with vertical upper bores; a lever flange under the keys; a damper lever pivoted to the lever flange under each key and projecting beyond the key; a damper flange pivoted to the rear of each damper lever; a spoon on each damper flange over the adjacent key; damper wires between hammer paths and slidable in said bores and secured to corresponding damper flanges; the upper end of each wire carrying a



damper head having a lower cushion face engaging both tine ends.

2,532,040
TOGGLE BOLT
Llewellyn M. Seely, Cheltenham Township, Montgomery County, Pa., assignor to Super-Grip Anchor Bolt Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 11, 1948, Serial No. 26,462
3 Claims. (Cl. 85—3)

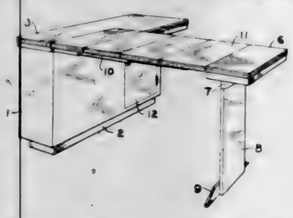


3. A toggle-bolt comprising in combination an anchor member formed of a single blank of sheet metal and shaped into a U-shaped channel, said channel comprising a pair of opposed side walls and a connecting bottom wall therebetween, said bottom wall having a partition member integral therewith and positioned at right angles thereto inwardly of said channel member, a bolt-receiving opening adjacent said partition member for receiving a threaded bolt, a bolt passing through said opening and having a nut retained at the end thereof, a stop member adjacent said bolt-receiving opening for engaging a lateral face of said nut, a rectangular opening in said bottom wall adjacent said partition for accommodating a nut in said hole to pass therethrough, said partition being provided with an opening communicating with said bolt-receiving opening, said partition being positioned beyond the median portion of said bottom wall to permit the anchor member to swing downwardly by gravity from a horizontal position to a vertical position on a bolt passing through said bolt-receiving opening and to support said bolt at substantially right angles to said bottom wall.

2,532,041
EXTENDIBLE COUNTER ASSEMBLY
Raymond A. Thompson, East Tawas, Mich., assignor to Anderson Coach Company, East Tawas, Mich., a corporation of Michigan
Application August 11, 1949, Serial No. 109,743
4 Claims. (Cl. 311—41)

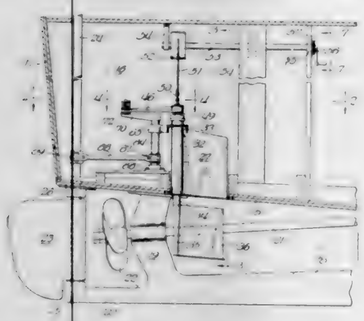
3. In an apparatus of the character described, a counter having a substantially flat top, said top

extending out to form a full length shelf of substantial width on one side of said counter, said shelf having a portion thereof which is of substantial length, but less than the full length of same, which is separable from the remainder of said top and in the plane thereof, a telescoping slide assembly anchored to said counter at one end and to said separable portion of said counter top shelf member at its other end, an upright supporting leg means anchored to said telescop-



ing slide assembly below the separable portion of said shelf when in retracted position and movable therewith to support same when extended, and a substantially flat upper surface means adapted to rest on said telescoping slide assembly and fill the space between said counter top member and the separable portion of the shelf extension in a common plane with the top surface thereof when said telescoping slide assembly is extended.

2,532,042
RETRACTABLE RUDDER
Clarence J. Vander Zanden, Banks, Oreg.
Application July 30, 1945, Serial No. 607,818
1 Claim. (Cl. 114—164)



A boat having in combination a hull, a main rudder having steering means therefor mounted on said hull, a propeller mounted at the stern of said hull in front of said main rudder, a shaft for said propeller extending lengthwise of said hull, a pair of rudder wells mounted on said hull on opposite sides of said shaft, a retractable rudder mounted in each well, a retractable rudder post within each well having its lower end attached to a retractable rudder, a gate rim attached to each rudder post above its rudder forming a closure for the lower end of its well when a retractable rudder is lowered, each gate rim forming a bearing for the respective rudder post, spring means interposed between the hull and the retractable rudders for urging the retractable rudders downwardly, means for raising said retractable rudders against their springs, and a latch uniting the main rudder steering mechanism to said retractable rudders when the latter are in a lowered position.

2,532,043
INSTRUMENT FOR RETROGRADE ELECTRO-SURGICAL RESECTION
Frederick J. Wallace, New York, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York
Application June 18, 1946, Serial No. 677,460
4 Claims. (Cl. 128—7)

3. In an instrument of the character described, an endoscopic sheath, a telescope in the sheath and including an objective lens commanding an obliquely forward field of vision, an electrode rod reciprocable along a path parallel to the axis of the telescope and including a cutting element positioned to one side of the telescope and outside of the direct field of vision thereof, a single mirror positioned forwardly of the objective lens and pivotal about an axis adjacent the side of the telescope remote from the cutting element, said mirror being so arranged as to be movable from a generally longitudinal position into positions of varying obliquity with respect to the axis of the telescope to bring an image of the cutting element into the field of vision of the telescope, means coacting with the mirror to place the same into and out of the field of vision of the telescope, and means connected to the electrode rod for imparting reciprocation thereto.

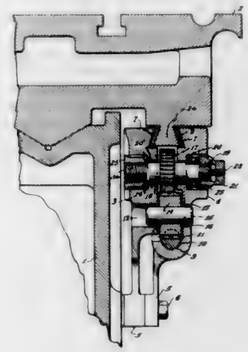
2,532,044
PRODUCTION OF NEW CHLORINE-CONTAINING ETHERS
Joseph F. Walker, Westfield, and Thomas J. Mooney, Perth Amboy, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1948, Serial No. 10,197
11 Claims. (Cl. 260—615)

1. The process of producing delta-chlorobutyl formal and delta-chlorobutyl chloromethyl ether which comprises bringing together tetrahydrofuran, formaldehyde and hydrogen chloride.

2,532,045
FISHING GEAR
Michael E. Walsh, Des Moines, Iowa
Application June 19, 1946, Serial No. 677,679
2 Claims. (Cl. 43—43.1)

1. In a device of the class described, a leader having a line engaging eye, a loop formation for detachably receiving and holding the eye of a hook, and portions extending from said loop first forwardly and away from the line engaging eye of the leader, then downwardly and forwardly, then upwardly and forwardly in the form of a U-portion, then rearwardly and upwardly, and then rearwardly, whereby the said portions form a hook shaft engaging means.

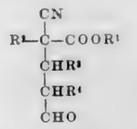
2,532,046
TABLE CLAMP FOR MACHINE TOOLS
John M. Walter, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio
Application November 15, 1946, Serial No. 709,980
7 Claims. (Cl. 188—67)



1. Mechanisms for clamping, comprising a rail element moving with the table on a machine tool bed, a pair of plates arranged to engage the opposite sides of said rail element, a spindle connected to engage each of the plates, said spindle engaging at least one of the plates with a threaded connection, a gear for rotating said spindle mounted thereon between said plates, and a rack having sliding engagement with one of said plates at least and meshing with said gear, for actuating said mechanism.

2,532,047
ALPHA-CYANO, ALPHA-ALKYL GLUTARALDEHYDIC ACIDS
Donald T. Warner and Owen A. Moe, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
No Drawing. Application November 6, 1948, Serial No. 58,818
8 Claims. (Cl. 260—465.4)

1. Aldehyde compounds having the following formula



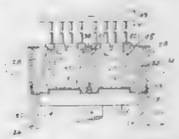
in which R^1 is an alkyl group containing from one to four carbon atoms, R^2 is an aliphatic hydrocarbon group, and R^3 and R^4 are selected from the group consisting of hydrogen and methyl.

2,532,048
ALPHA-CYANO GLUTARALDEHYDIC ACIDS
Donald T. Warner and Owen A. Moe, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
No Drawing. Application November 6, 1948, Serial No. 58,819
8 Claims. (Cl. 260—465.4)

1. Aldehyde compounds having the following formula

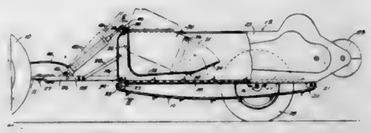
in which R^1 is an alkyl group containing from one to four carbon atoms, and R^2 is selected from the group consisting of hydrogen and methyl.

2,532,049
MOLD FOR MAKING HOLLOW CONCRETE BLOCKS
Emil Paul Wittke, St. Helens, Oreg.
Application August 11, 1948, Serial No. 43,700
3 Claims. (Cl. 25—41)



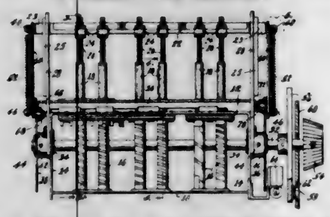
1. A concrete block forming mold consisting of a stationary mold box, cores supported by said box, a pallet upon which said cores can rest, vertically and outwardly movable liners for said box and means for moving said liners outwardly and downwardly after they have cleared the lower edge of the box.

2,532,050
FERTILIZER SPREADER
Russel D. Acton, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 19, 1945, Serial No. 583,454
5 Claims. (Cl. 275—5)



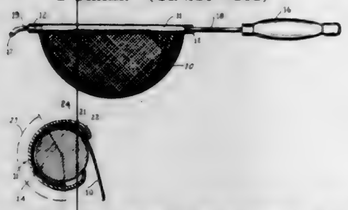
1. In combination with an apron type manure spreader having a body with a bottom, side walls, a front end wall and a conveyor, an attachment comprising a load-carrying container filling a substantial portion of the forward end of the spreader body, said container being pivotally mounted on the body, said container having an open rear end and a depressed, forwardly sloping bottom whereby it has a substantial capacity in one position to retain liquid material below the level of the open end, and means for tilting said container to dump the material therein onto the conveyor of the spreader.

2,532,051
TUNER
Grover F. Behringer, Defiance, Ohio, assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application May 7, 1949, Serial No. 91,909
8 Claims. (Cl. 250—40)



1. In a tuner of the character disclosed having a movable tuning element, a frame having slots in which said element is slidable, means for sliding said element along said slots comprising an oscillatable shaft, a pair of crank pin discs carried thereby, crank pins on said crank pin discs, pins projecting from said tuning element, links connecting said crank pins and said last pins together, a control knob secured to said shaft for oscillating the same to effect the tuning operation, and springs connecting the pins together to take up play in the parts.

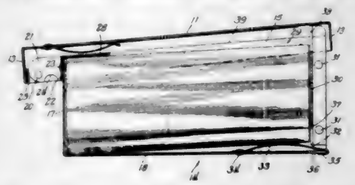
2,532,052
STRAINER
Frank Berman, Brooklyn, N. Y.
Application October 9, 1947, Serial No. 778,901
1 Claim. (Cl. 210—161)



Means for securing a bowl-shaped strainer sheet in position with its top edge portions bent about a circular handle frame from the inside to the outside thereof and over the top thereof, comprising a circular strainer frame, said strainer frame being C-shaped in cross-section and engaged over the top edge portions of the strainer sheet from the outside of the handle frame, said strainer frame having its bottom edge bent to engage the handle frame beyond the peripheral edges of the strainer sheet to restrain movement of the strainer sheet relative to the handle frame in a direction toward the bottom edge of the strainer frame, said strainer frame having its top edge portion bent under and inward and clamp between the adjacent faces of the strainer sheet and the strainer frame so that the free edges of said bent under top edge portion engage the interstices of the strainer sheet and secure the same against movement in a direction away from the bottom edge of the strainer frame.

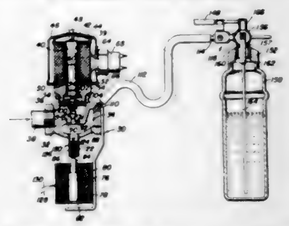
2,532,053
CARDCASE FOR METER READERS
Joseph W. Bickel, Sandusky, Ohio
Application March 9, 1948, Serial No. 13,857
7 Claims. (Cl. 281—44)

1. A meter reader's case for carrying rectangular tabulating cards to be marked by the meter reader in accordance with the meter indication, there being a card for each meter, comprising, in combination, a box for receiving a stack of said cards having an opening at the bottom of one end to permit insertion at the bottom of said stack of a marked card previously on the top thereof, and a spacer of resilient material at the bottom



of said box adjacent said opening for holding the lowermost card of said stack in partial spaced relation to the juxtaposed wall forming the box bottom to facilitate insertion of said marked card, said resilient member being secured at its inner edge of the bottom wall of the box and having its outer edge folded around the adjacent outer edge of said bottom wall at the opening therein.

2,532,054
AIR AND WATER SPRAY FOR DENTAL ENGINES
Rene J. Broussard, New Iberia, and Joseph G. Tilly, Opelousas, La.; Lelia Gonsoulin Broussard, Harvey J. Broussard, Nat Broussard, and Rene Broussard, sole heirs of said Rene J. Broussard, deceased; said Lelia Gonsoulin Broussard natural tutrix of said Nat Broussard and said Rene Broussard, minors
Application April 30, 1948, Serial No. 24,335
4 Claims. (Cl. 32—28)

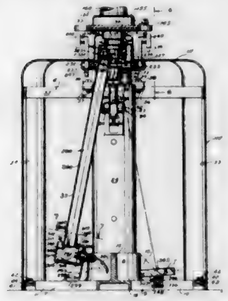


1. In dental apparatus including a head having a tool associated therewith, a spray nozzle attached to said head, a receptacle for retaining liquid, means for applying air pressure within said receptacle, means for by-passing the air, and means for conducting the by-passed air and the air from the receptacle to said nozzle, a solenoid actuated valve associated with said air conducting means to relieve residual pressure from said receptacle, and means for controlling the actuation of said solenoid.

2,532,055
PYRIDONE DERIVATIVES
William F. Bruce, Upper Darby, Pa., assignor to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 3, 1945, Serial No. 586,441
6 Claims. (Cl. 260—295.5)

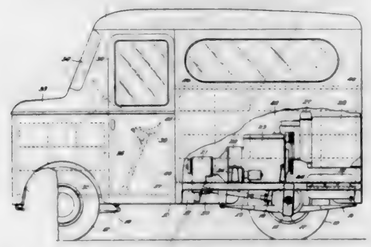
2. Compounds selected from the group consisting of the amides and the alkyl esters of 4-alkoxymethyl - 5-halogeno-6-methyl-2-pyridone-3-carboxylic acids.

2,532,056
DYNAMIC BALANCE TESTER
Tracy Carrigan, Lansing, Mich., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application January 8, 1946, Serial No. 639,803
14 Claims. (Cl. 73—66)



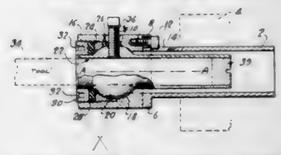
1. An apparatus for checking the dynamic balance of a rotatable body comprising means for mounting said body for rotation about a reference axis and for universal tilting movement relative thereto, a reflector mounted on said body mounting means to rotate and wobble and tilt therewith and adjustable for universal tilting movement relative thereto, means for projecting a beam of light toward said reflector, means for receiving the image of said beam of light reflected from said reflector, and means for adjusting said reflector into a position normal to said reference axis while said body is rotated at a high speed and is caused to wobble about said reference axis under the influence of the dynamic unbalance of said body, whereby when said body is subsequently rotated slowly with its axis concentric to said reference axis said reflector will wobble and reflect the image of said beam of light on said image receiving means in conformity with the amount and location of dynamic unbalance of the body.

2,532,057
PACKAGE DELIVERY TYPE MOTOR VEHICLE
Charles L. Carlson and Raymond W. Bond, Fort Wayne, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application July 12, 1947, Serial No. 760,646
3 Claims. (Cl. 180—89)



1. A motor vehicle comprising a longitudinal body carried on front and rear wheels, said body having a floor structure, roof element, side walls, forward wall structure and rear wall; said floor structure being divided generally transversely thereof into an operator's station and a rearwardly located space extending from said operator's station to said rear wall, said rearwardly located space being divided longitudinally of the body into a cargo-carrying space and a power plant compartment; a power plant in said power plant compartment drivingly connected to certain of the wheels; said power plant compartment including portions of one of the side walls and the rear wall, and having a top cover element substantially normal to said one side wall extending substantially the length of said cargo-carrying space and being vertically spaced from said roof element; and a second cargo-carrying space being defined by said top cover element and portions of said one side wall and roof element.

2,532,058
DRILL AND REAMER HOLDER
Arthur Edwin Clark, Ferndale, Mich.
Application January 9, 1947, Serial No. 721,019
3 Claims. (Cl. 279—16)

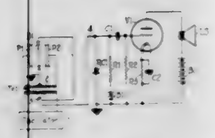


3. In a tool mount, a support having an axis which is oriented in the general direction of the axis of relative rotation of the work and the tool, a body member mounted on the support and being adjustable on the support in a direction substantially transverse of the aforesaid axis, a tool holder mounted in the body member and being universally adjustable relatively thereto, and means to removably hold the tool holder in operating position in the body member.

2,532,059
SHOULDER PAD
Audrey M. Dee, Hollywood, Calif.
Application April 11, 1947, Serial No. 740,750
3 Claims. (Cl. 2—268)

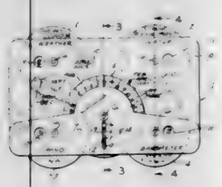
1. A shoulder pad arrangement comprising a removable pad element, a cover element for said pad element having a pocket for insertion therein of said pad element, and a pair of free-ended straps permanently attached respectively to opposite sides of said cover element and extending in opposite directions to form an integral part of said cover element and arranged so that when said cover element with the pad therein is placed in position on the shoulder the straps extend downwardly parallel and adjacent to and overlie the wearer's brassière straps for convenient fastening thereto without alteration or fabrication of the conventionally used brassière straps.

2,532,060
ELECTROSTATIC VIBRATION DETECTOR
Robert H. Dicke, Princeton, N. J.
Application May 27, 1946, Serial No. 672,678
10 Claims. (Cl. 332—30)



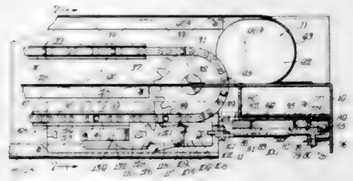
9. Apparatus for converting sound into modulated high-frequency current comprising, two spaced plates having conducting surfaces substantially parallel to each other and insulated from each other, two condensers connected in series across said plates, a source of inaudible high-frequency potential connected across said plates, a diaphragm having a conducting surface and located between said plates and movable transversely with respect to the planes of said plates, said condensers having capacities such that a constant high-frequency potential exists between said diaphragm and the junction between said condensers when said diaphragm is at rest and which is modulated when said diaphragm is vibrated.

2,532,061
FISHING GUIDE
Murry Glick, St. Louis, Mo.
Application March 25, 1946, Serial No. 656,909
1 Claim. (Cl. 35—74)



A fishing guide comprising a pair of flat members rigidly secured together and a plurality of disks mounted on independent axes and rotatably positioned between said flat members and having indicia thereon adjacent their peripheries relative to the weather, to the state of the stream to be fished, to the wind, and to the barometer, respectively, and having respective, correlatively positioned numerals thereon adapted to be observed through apertures in one of said flat members when said indicia are exposed adjacent the peripheral edge of said one of said flat members as a reading line, a radially slotted and apertured member rigidly secured to said flat members and having an arcuate portion, a disk rotatably secured between said slotted member and said one of the flat members and having the numbers 1 to 31, inclusive, thereon arranged adjacent its periphery so as to be observable around said arcuate portion, the names of the months of the year being arranged in a particular manner on said one of the flat members and provided with indicia for registry with said numbers, numerals adjacent the slot of said radially slotted member, a polar curve outlining an eccentrically shaped figure on said last-named rotatable disk for association with said numerals.

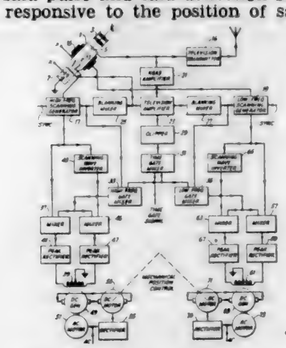
2,532,062
VENDING MACHINE
Clyde W. Hall, Chicago, Ill., assignor, by mesne assignments, to F. H. Knowles
Application April 10, 1945, Serial No. 587,574
8 Claims. (Cl. 312—97)



1. Actuating mechanism for an article vending machine of the type having a frame and an endless conveyor therein adapted to be intermittently operated for advancement one step at a time and comprising an endless chain provided with uniformly spaced apart article engaging elements for impelling said articles to an opening in the machine forming a discharge station along the path of travel of the chain, said actuating mechanism comprising a manually actuated operating lever adapted to be moved through an operating stroke and return stroke, chain engaging means operably connected to said lever and normally disposed out of engagement with the chain when said lever is disposed at its starting position, said means being constructed and arranged to move into driving engagement with the chain of the conveyor during the initial portion of the operating stroke of said lever, and upon further movement of said lever to effect movement of said chain an amount substantially equivalent to the distance between adjacent article engaging elements for delivering one article at the discharge station, said chain engaging means including a carrier mounted for guided reciprocating movement in the frame, adjacent the chain and comprising two members interconnected for limited relative longitudinal movement, a link connecting one of said carrier members to the operating lever, and a chain engaging pawl pivotally mounted on one of said members for swinging movement laterally of the carrier, means interconnecting the other of said members and said pawl to convert said relative longitudinal movement into lateral swinging movement of said pawl so as to move said pawl laterally into or out of operative engagement with said conveyor chain; and detent means coacting with said lever during the range of said further movement thereof for precluding return movement of said lever until completion of the operating stroke.

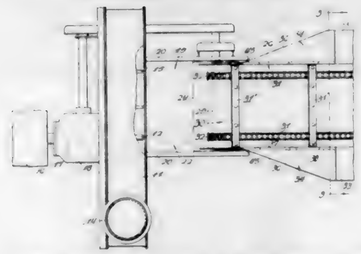
2,532,063
POSITION INDICATING SYSTEM
Philip J. Herbst, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 7, 1946, Serial No. 695,577
12 Claims. (Cl. 178—6.8)

8. A position adjusting system comprising in combination an image tube having a light sensitive electrode adapted to receive an image of a field of view including a distinctive point, an electron beam for said image tube, a deflection signal generator to generate a sawtooth deflection signal for causing said electron beam to scan said electrode, means for deriving from said image tube a signal pulse of predetermined amplitude and having a predetermined frequency characteristic when the image of said distinctive point is scanned by said electron beam, a mixer circuit for combining said pulse and said deflection signal, and means responsive to the position of said signal



pulse on said deflection signal to adjust the relative position of said point with respect to the center of said electrode.

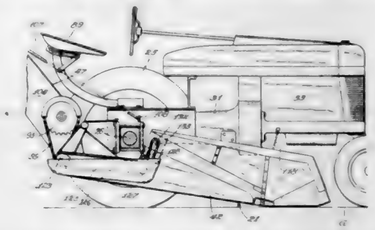
2,532,064
ENSILAGE BLOWER HAVING A SWINGING FEED TROUGH
Edwin F. Huddle, Elmwood Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 27, 1946, Serial No. 718,870
10 Claims. (Cl. 302—37)



1. In an ensilage blower, a fan housing having a feed opening in a side thereof, a receiving housing communicating with the feed opening and the fan housing, said receiving housing including laterally spaced vertical members, the combination therewith, of a feeding means comprising a longitudinally extending trough, means hingedly connecting said trough to said receiving housing for vertical swinging movement about a transverse axis, and laterally spaced side boards hingedly connected to said trough for movement about longitudinal axes, said side boards having angularly inclined edge portions, the distance between the edge portions being greater than the distance between the vertical members, said edge portions being adapted to engage edges of said vertical members in sliding camming relation during vertical swinging movement of said trough whereby said hinged side boards are folded with respect to said trough.

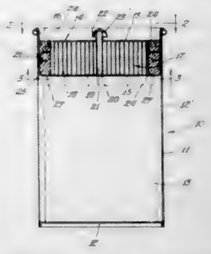
2,532,065
COTTON STRIPPER MACHINE
Benjamin M. Hyman, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application January 28, 1948, Serial No. 4,759
5 Claims. (Cl. 56—14)

1. In a cotton stripping apparatus for use upon a tractor having a body projecting forwardly from a rear axle extending transversely of a rear portion of such body; said apparatus, when mounted upon the tractor comprising an elevator hopper, disposed rearwardly of said body and below said axle, a cotton stripper unit including stripper rollers disposed forwardly of said hopper alongside respective sides of the tractor body and projecting downwardly and forwardly from their rear ends, auger troughs disposed below said stripper rollers and solely between the tractor body and respective of said rollers, said troughs extending lengthwise and alongside of said rollers for receiving stripped cotton bolls therefrom, said



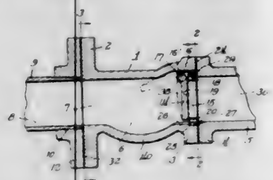
troughs projecting rearwardly of the rear ends of said rollers at respective opposite sides of said hopper and where each trough has a side wall with an opening communicative with said hopper, augers in said troughs, said augers each having a radially extending paddle on a rear portion thereof in registry with the opening of its associated trough, and means for rotating said stripper rollers and said augers while rotating the augers in a direction to transfer the bolls rearwardly in the troughs into registration with their paddles and said paddles being operative to propel the bolls through said openings into the hopper.

2,532,066
CONTAINING UNIT
Frederick O. Johnson, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 10, 1946, Serial No. 689,786
4 Claims. (Cl. 312—31.1)



1. In combination with a storage unit having a casing for containing an object, a breathing system for said casing including a chamber in communication with the atmosphere and with said casing, said chamber being formed with a continuous labyrinth passage of narrow cross-section relative to its length, the volume of said continuous passage being at least equal to the maximum change in the volume of air developed within said casing due to atmospheric changes, and a dehydrating means associated with said chamber and with said casing, said dehydrating means including a desiccant material between said casing and said passage.

2,532,067
AUTOMATIC RETURN FLOW CONTROL VALVE
Harry E. La Bour, Elkhart, Ind.
Application September 11, 1946, Serial No. 696,079
10 Claims. (Cl. 251—123)



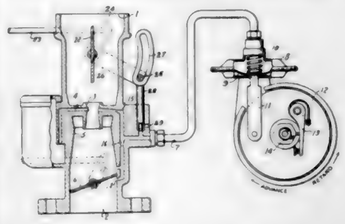
10. In combination, a pair of flanged tubular fittings adapted to be clamped together on a plane at substantially right angles to the longitudinal axis of said fittings, the first of said fittings having a counterbore opening to the face of the flange of said fitting, and having also a pintle recess also opening toward said flange face and being disposed radially beyond the counterbore and communicating with said counterbore, a flap valve having a pintle disposed in said pintle recess and a ringlike valve seat member for cooperation with said valve disposed in the counterbore and held therein by said second fitting, said valve seat member blocking escape of the pintle out of said pintle recess.

2,532,068
SOLDERLESS CONNECTOR
Bruno F. Larsen, Erie, Pa., assignor to Pelham Electric Manufacturing Corp., Erie, Pa., a corporation of New York
Application December 23, 1948, Serial No. 66,867
6 Claims. (Cl. 24—135)

4. In a solderless connector, a channel shaped member having spaced flanges extending from a base, the channel being open at at least one end and the flanges having opposed faces for receiving a conductor therebetween, projections extending endwise outward from the end edges of the lower ends of the flanges, a contact member between the opposd faces of the flanges having notches slideably embracing the opposed faces and the end edges of the flanges and having portions resting on the upper edges of the projections and co-operating therewith to prevent spreading of the flanges under contact pressure, and a co-operating contact means for forcing a conductor against the contact member and for forcing the contact member against said projections.

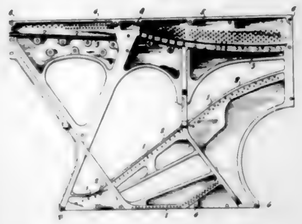
2,532,069
IGNITION TIMING CONTROL FOR INTERNAL-COMBUSTION ENGINES
Marion Mallory, Detroit, Mich., assignor to The Mallory Research Company, Detroit, Mich., a corporation of Michigan
Application June 4, 1948, Serial No. 31,164
2 Claims. (Cl. 123—117)

1. In an internal combustion engine having an intake manifold, an ignition timer, a carburetor comprising an air intake, and air outlet to the engine manifold, a fuel inlet between said air inlet and outlet, and a throttle valve between the fuel inlet and the manifold, a suction controlled means for advancing and retarding the timer, and means providing a constantly open



passageway from said suction means to an opening into the carburetor at a point on the engine side of the throttle valve when the valve is open and on the other side of the throttle valve when the valve is closed, and to a smaller opening on the engine side of the throttle valve in all positions of the valve.

2,532,070
CAST PIANO PLATE
George L. Moore, Hudson, and Walter E. Sicha, Cleveland, Ohio, and Robert B. Wrege, Louisville, Ky., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 27, 1946, Serial No. 665,436
7 Claims. (Cl. 84—188)



1. A cast piano plate composed of an aluminum base alloy consisting of 3 to 7 per cent silicon, 2.5 to 4.5 per cent copper, and 0.02 to 0.4 per cent magnesium as the principal added alloy constituents, and balance substantially aluminum, said plate having an internal structure produced by artificial aging and characterized by substantial freedom from creep under the stress imposed by tuned strings and a yield strength exceeding 25,000 p. s. i.

2,532,071
ANKLE AND HIGH SPLICE STRUCTURE IN FULL-FASHIONED STOCKING AND METHOD OF MAKING THE SAME
William Nebel, Charlotte, N. C.
Application December 24, 1947, Serial No. 793,616
4 Claims. (Cl. 66—182)

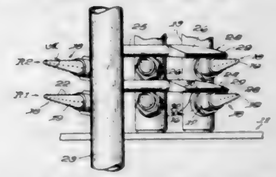
1. A full-fashioned stocking blank having a leg portion and heel portions and high spliced portions extending above the tops of the heel portions, each of the high spliced portions having the edge thereof remote from the selvage edge stopping in a common wale and having its outer selvage edge gradually narrowed from the top edge thereof for a predetermined number of

courses, there being a number of non-narrowed courses between adjacent narrowed courses, and also a number of non-widened courses between adjacent widened courses.

2,532,072
HIGH SPLICE STRUCTURE FOR FULL-FASHIONED STOCKINGS AND METHOD OF MAKING THE SAME
William Nebel, Charlotte, N. C.
Application December 24, 1947, Serial No. 793,617
4 Claims. (Cl. 66—182)

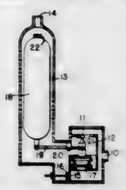
1. In a single unit blank for a full-fashioned stocking having an ankle portion, and heel portions and a leg portion with leg narrowings therein adjacent the selvage edges and disposed immediately above the ankle portion, said blank having ankle widenings extending downwardly along the selvage edges from the point where the leg narrowings stop, high spliced portions beginning at the point of widening along each edge of the blank and having the edge of each of the high spliced portions in the blank remote from the selvage edge occurring in a continuous wale and the reinforcing thread forming the high spliced portions extending outwardly in each widening operation to provide high spliced portions having narrow upper portions and gradually widening lower portions merging into the upper heel portions.

2,532,073
DOFFER FOR COTTON PICKER SPINDLES
Hans P. Petersen, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application July 2, 1945, Serial No. 602,717
3 Claims. (Cl. 56—30)



1. For use in a cotton picking machine having free ended picking spindles which are swept endwise substantially in a horizontal plane; a pneumatic doffing apparatus for doffing cotton from such spindles, said apparatus comprising a thin pneumatic doffing nozzle having a slit-like discharge opening serviceable to project a sheet-like air stream from the nozzle within a plane substantially coincident with that defined by such thin nozzle, and means for supporting said nozzle flatwise of and contiguous to the plane of said spindles and with the slit-like discharge opening disposed in vertical registry with and diagonally of the spindles as they sweep therepast, to project said air stream along the surface of said spindles beneath the cotton thereon and lengthwise of such spindles toward their free ends.

2,532,074
PROTECTIVE APPARATUS FOR REFRIGERATING SYSTEMS
Alexis Poukhalo-Poukhlovsky, Paris, France, assignor of one-half to Konstanty P. Puchlowski, Pittsburgh, Pa.
Application November 19, 1946, Serial No. 710,837
In France November 22, 1945
20 Claims. (Cl. 62—115)

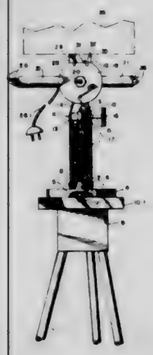


3. Protective apparatus for refrigerating systems, comprising a vessel for refrigerant having conduit means for connection to the system to be protected, valve means for controlling the flow of refrigerant in the system, density-responsive control means disposed in said vessel to respond to changes in density of the refrigerant, and means connecting said control means with said valve for closing said valve to prevent the flow of refrigerant in the system when said density drops below a normal value, and exteriorly actuable resetting means for causing said valve to open.

2,532,075
LIGHT HOLDER FOR CAMERAS
Herman Powell, Chicago, Ill., assignor to Columbia Enterprises, Grayslake, Ill., a corporation of Illinois
Application April 17, 1948, Serial No. 662,750
1 Claim. (Cl. 240—1.3)

In a device of the character described a camera platform; means on said platform for anchoring

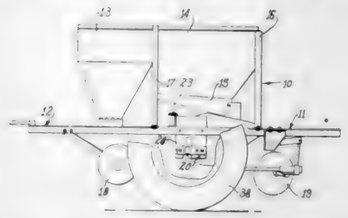
a camera thereto; a switch housing integrally secured to the underside of said platform; an electrical switch contained in said housing; a plurality of conduits; a plurality of couplings for connecting said conduits together to form a pair of unitary conduit lengths; each of said conduit lengths being secured at one end to opposite sides of said switch housing and extending laterally therefrom substantially horizontally and substantially parallel to the plane of said platform; lamp sockets integrally secured at equally spaced intervals to each of said couplings so as to be spaced equally away from said platform and with the axes of the sockets disposed substantially parallel to the plane of the platform; said sockets being electrically connected in series to said switch; a support arm integrally secured to the lower end of said housing; an axial bore in the



lower end of said arm; a casing having an axially threaded bore in the lower end thereof and an axially extending boss on the upper end thereof; said arm bore adapted to receive said casing boss and said arm being rotatable thereabout together with said lamp sockets and said platform; a set screw positioned in said arm for immovably securing said arm to said casing when desired whereby manual movement of said casing will move said sockets and said platform in a corresponding direction; a flat circular base having an axially positioned threaded bore in the bottom surface thereof and an axial boss integrally secured to the top surface thereof; means for securing said base boss in said casing bore; said threaded bore adapted to receive a standard anchor bolt usually found in the head of a tripod whereby to anchor said casing immovably thereto.

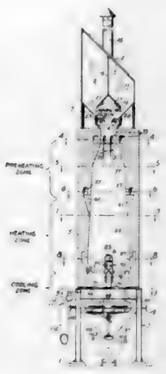
2,532,076
ADJUSTABLE AXLE CONSTRUCTION FOR POTATO PLANTERS
Russell R. Raney, La Grange, and Ellwood L. Faust, Elmhurst, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 9, 1949, Serial No. 80,544
12 Claims. (Cl. 280—43)

1. An axle support for a wheeled frame comprising an upright plate member having a longitudinal portion and a transversely extending portion connected thereto, the longitudinal extending portion including a vertical slot, a brace extending diagonally for connection to the ends of the longitudinal portion and the transversely extending portion, an axle extending through the slot, means connecting the axle to said brace, a strap connected to the axle and extending transversely with respect to the axle, and means adjustably connecting said brace and said strap to



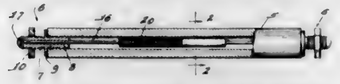
said plate member whereby said axle may be vertically adjusted within said slot.

2,532,077
KILN
Victor J. Azbe, Webster Groves, Mo., assignor to Azbe Corporation, Clayton, Mo., a corporation of Missouri
Application September 8, 1947, Serial No. 772,660
9 Claims. (Cl. 263—29)



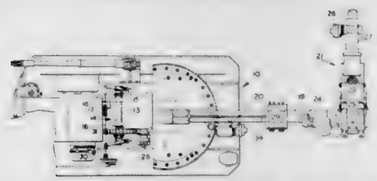
5. A kiln comprising an upright hollow shaft having an upper heating zone and a divided lower cooling zone which has a plurality of bottom material outlets, one outlet being associated with each division, individual material discharge control means associated with the respective cooling zone outlets, a closed substantially gas-tight hopper below the shaft divided into individual compartments adapted to receive materials respectively from the outlets and to store said material as discharged from the cooling zone divisions and including means for releasing materials from time to time, said hopper being attached to the shaft and covering said outlets to form a common plenum chamber for all outlets for introduction of a gaseous medium into said outlets, compressor means connected with the plenum chamber adapted to force said medium into the plenum chamber under superatmospheric pressure, control means for the compressor means, whereby the medium may be forced under control from the plenum chamber and into the divisions of the cooling zone through said outlets and against the flows of material therefrom, stored materials above the material releasing means preventing outflow of gas therefrom.

2,532,078
FUSE
Donald L. Baxter, Chicago, Ill., assignor to Reliable Electric Company, Chicago, Ill., a corporation of Illinois
Application April 21, 1949, Serial No. 88,710
1 Claim. (Cl. 200—131)



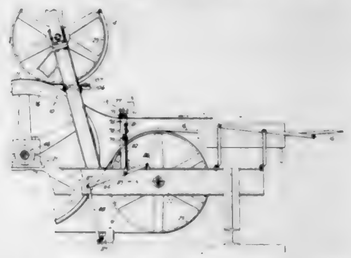
A 7 ampere protective fuse for a communications circuit, said fuse being operable in air with air as a dielectric and being capable of carrying its rated current continuously without opening and without causing a temperature rise of more than 70° C. on the housing forming a part thereof, said fuse also being capable of opening its circuit within five minutes when carrying 150% of its rated current, and said fuse being capable of opening its circuit without emitting sufficient flame or molten metal to ignite surgical cotton entirely surrounding the cartridge when subjected to a short circuit test on a 600-volt, direct-current circuit having a capacity of 10,000 amperes, said fuse comprising: an imperforate tubular housing made of ceramic material, the length of said housing being about four or five inches, a pair of metallic terminal elements mounted one at each end of said housing, the seal between said terminal elements and said housing being substantially air-tight, substantially pure lead fuse wire extending axially through said housing and having its ends in current conducting relation with said terminal elements, the diameter of said lead fuse wire being approximately 0.033 inch, and an elongated sleeve of woven glass material loosely carried on said fuse wire between the wire ends, the sleeve length being substantially less than the length of said fuse wire measured between said terminal elements.

2,532,079
SAFETY ELECTRICAL CONTROL FOR DRILLING MACHINES
John S. Beltz, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 11, 1947, Serial No. 779,383
7 Claims. (Cl. 255—51)



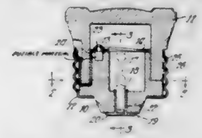
1. A drilling machine including a main frame, traction means for propelling said main frame, a driving motor for said main frame, disengageable gearing interconnecting said motor and traction means, a boom carried by said main frame and extending therefrom, drilling mechanism mounted on said boom, a hydraulic system for controlling said drilling mechanism including a pump directly connected to said driving motor and a hydraulic motor for operating said drilling mechanism, and control means for starting and stopping said driving motor including a switch operable to disable said control means when said disengageable gearing is engaged, said control means also including switch means located on said boom for starting said driving motor.

2,532,080
APPARATUS FOR CONTINUOUSLY VULCANIZING RUBBER STRIP MATERIAL
Burtis W. Benbow, Benbow, Calif.
Application August 16, 1947, Serial No. 769,001
6 Claims. (Cl. 18—6)



2. In a machine for continuously molding a material like rubber, a molding wheel adapted to be rotated at a predetermined rate, the wheel being provided with a continuous molding cavity extending about its peripheral portion, a pulley mounted adjacent one side of the molding wheel, a metal band entrained over said pulley and the molding wheel and passing between the peripheries of the pulley and the molding wheel, means for continuously driving the wheel and pulley whereby the band progresses about the pulley, then between the pulley and the wheel and then about the wheel, a feed nozzle disposed in proximity with both the periphery of the wheel and the surface of the band in a region adjacent one side of the line of centers between the pulley and the wheel, said nozzle forming a confined space for receiving a length of rubber stock and for presenting the same under partial compression to the molding cavity, said nozzle including a pair of substantially parallel plates between which the rubber stock is caused to pass, each of said plates including convergent curved edge portions in close apposition with the surface of the band and the outer periphery of the molding wheel, the spacing between the plates corresponding substantially to the width of said molding cavity, and means for supplying a length of rubber stock to said nozzle.

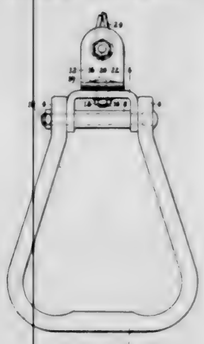
2,532,081
THERMAL TIME LAG FUSE
Gust A. Berthel, Chicago, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a corporation of Illinois
Application August 8, 1945, Serial No. 609,620
7 Claims. (Cl. 200—123)



1. A plug fuse comprising a body member having two spaced recesses therein, a resilient strip overlying a portion of said body member, a rivet disposed in one of said recesses for anchoring said resilient strip at one end to said body member, a body of metal of comparatively

low melting point disposed in the other one of said recesses and engaging the free end of said resilient strip to maintain the same in stressed condition, a fuse link connected in series circuit with said resilient strip, contacts at the outer surface of said body member, and means for connecting said resilient strip and said fuse link in series circuit with said contacts.

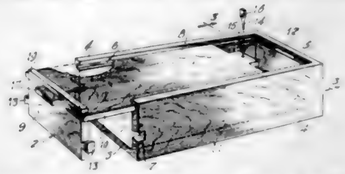
2,532,082
STIRRUP SWIVEL ATTACHMENT
Frank C. Borst, Oroville, Wash.
Application September 29, 1949, Serial No. 118,699
1 Claim. (Cl. 54—47)



A device of the character described comprising a stirrup having a horizontal section and two upwardly toward each other inclined lateral sections whose upper end portions are in spaced relation to one another, a horizontal member shaped as an inverted U and having a horizontal web portion from which flange portions are vertically downwardly extended and interposed between the upper end portions of said lateral sections of the stirrup, a horizontal tubular member interposed between said flange portions, a horizontal bolt extended through the upper end portions of said stirrup as well as through said flange portions and through said tubular member so as to permit an angular movement of the stirrup relative to said horizontal member, a vertical pivot pin having a reduced upper portion with a head thereon and being secured to the web portion of said horizontal member and extended beyond the upper side of said member, a U-shaped bar having vertical flange portions and a horizontal web portion through which is extended the reduced upper portion of said pivot pin, a resilient member interposed between the head of said pivot pin and the web portion of said U-shaped bar, and a crossbolt horizontally extended through the flange portions of said U-shaped bar in spaced relation to the web portion of the U-shaped bar and extended through the stirrup leather loop which is interposed between the flange portions of said U-shaped bar.

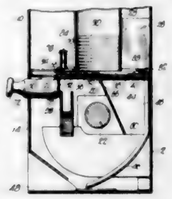
2,532,083
SHIPPING CASE
Arthur B. Brenner, Newark, N. J.
Application June 11, 1948, Serial No. 32,284
2 Claims. (Cl. 217—62)

1. A shipping case consisting of a main section including a bottom wall, a rear wall and side walls and having an open top and an open front, and an auxiliary section slidably connected to said main section including a top plate longitudinally slidably mounted on said side walls for closing the open top of the main section when in one position, a front plate depending from one end of said top plate for closing the open front of the main section when said top plate is in said position, the front edges of said side walls being formed with dove-tail notches,



and dove-tail lugs on the side edges of said depending front plate to slide into and out of said notches upon movement of said auxiliary section in opposite directions, respectively, and to seat in said notches for interlocking said front plate and said side walls together when said top plate and said front plate are in said positions for preventing spreading apart of said side walls.

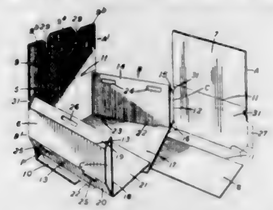
2,532,084
VENDING MACHINE
Henry J. Burasco, Kansas City, Mo.
Application February 3, 1947, Serial No. 726,011
3 Claims. (Cl. 312—67)



1. In a vending machine of the character described, an open bottom receptacle for the articles to be vended; an open top outlet chute underlying said receptacle in offset relationship thereto; a perforated ejector gate mounted for sliding movement between the receptacle and the outlet chute in transverse relation to the axes of the open bottom and open top of the receptacle and chute respectively; means for yieldably maintaining said gate in a normal position for holding all of said articles in said receptacle, said perforation in the gate being adaptable to receive one of the articles when the gate is moved from said normal position to one end of its path of travel; and structure for holding the article in said perforation as the gate is moved toward the opposite end of its path of travel to a position where the one article is free to fall by gravity into said outlet chute, said structure comprising a plate underlying the gate and a projection on the gate overlapping a portion of the perforation therein.

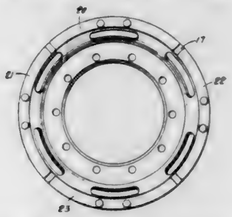
2,532,085
VENTILATED CARDBOARD CARTON
Norman Carter, Desborough, near Kettering, England
Application June 13, 1946, Serial No. 676,375
In Great Britain June 18, 1945
4 Claims. (Cl. 229—16)

1. A cardboard or like box which is formed from a blank composed of four lineally connected sections, with the ends of the blank joined to form a continuous loop, each section including a foldable flap extension at each unattached side thereof, interconnected by foldable portions, two of the said sections constituting the lid, an outer bottom and the front and back of the box, whilst the other two sections constitute an inner bottom, and double walled ends the inner and outer walls of which are formed respectively with in-



ternal and external ventilation openings whereby the internal cavities within the ends are placed in communication with the interior of the box and with the external atmosphere, the portions of the outer walls containing the external ventilation openings being sloped so that ventilation is assured in the event of boxes being stacked in abutment with one another.

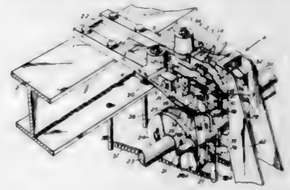
2,532,086
BRAKE DRUM WITH NOISE SILENCER
James F. Chapman, Upper Darby, and Elmer Latshaw, Philadelphia, Pa., assignors to ACF-Brill Motors Company, Philadelphia, Pa., a corporation of Delaware
Application December 10, 1948, Serial No. 64,563
6 Claims. (Cl. 188—218)

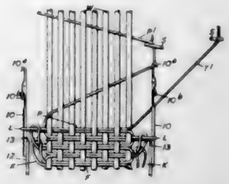


1. A brake drum squeal preventing device comprising in combination a brake drum having a peripheral edge, a pair of secondarily resonant bodies oppositely disposed on said edge along one diameter of said drum, a second pair of secondarily resonant bodies oppositely disposed on said edge along another diameter of said drum 90 degrees removed from the first pair, each of said bodies comprising an arcuate mass extending around said drum edge for approximately 90 degrees, each of said bodies being cambered against said drum edge so that the ends thereof are in contact therewith, openings adjacent the central portion of each of said bodies and means extending through said openings non-rotatably securing the central portion of each of said bodies contiguously to said drum edge.

2,532,087
LOOM WITH STATIONARY WEFT SUPPLY
Charles Clutsom, Ashby-de-la-Zouch, England
Application April 7, 1949, Serial No. 86,100
In Great Britain April 20, 1948
6 Claims. (Cl. 139—124)

1. In a shuttleless loom of the class concerned, weaving mechanism comprising, in combination, duplicate weft laying members adapted to operate alternately from opposite sides of a series of warps to carry separate weft threads from independent supplies to and fro through sheds of the said warps, and associated duplicate thread engaging elements of hooked form adapted to operate in conjunction with the said weft laying members to hold the weft threads and ensure that they remain laid in the sheds, the said elements being so arranged and operated as to engage the threads presented to them in appropriate timed relation to the operation of the weft laying members to form selvedges at respectively opposite edges of a piece of woven fabric, and each



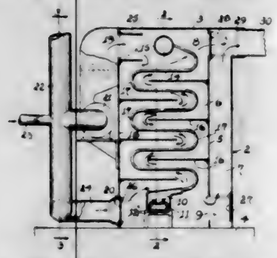


of the weft laying members being so mounted for movement that, during each forward stroke of the said member, the operative extremity thereof follows a path which is oblique with respect to the plane of the fabric being woven whereby whilst the member is prevented from presenting the appropriate weft thread to the thread engaging element located on the same side of the warps as the said member the latter will be in a position at the termination of such stroke for the said thread to be presented to, engaged by and subsequently drawn into the hook of, the thread engaging element at the opposite side of the warps.

2,532,088
CLEANSING APPARATUS
Nat Cordis, Silver Lake, Wis.
Application November 1, 1947, Serial No. 783,547
4 Claims. (Cl. 119—1)

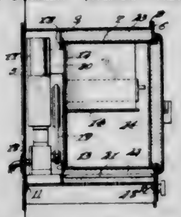
1. A spray for washing the teats of a cow prior to milking comprising a hollow cup-shaped body comprising an inner wall and an ambient outer wall, said body being adapted to receive the teats of a cow and having spray holes in the inner wall thereof, a drain pipe in the base of said body and having communication with the interior of said body, a liquid inlet in communication with said spray holes, and a spray tube centrally disposed with said body operably connected to said liquid inlet.

2,532,089
AIR-HEATING FURNACE FOR ALTERNATIVE FORCED AND CONVECTION AIR FLOWS
Willy F. Creil, Cleveland, Ohio
Application April 8, 1946, Serial No. 660,381
3 Claims. (Cl. 126—110)



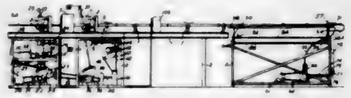
1. In a furnace, selectively actuated, associated gravity and forced draft air heating systems, said systems including means defining a heating chamber common to both systems, means defining inlet and outlet passages in both the upper and lower portions of said heating chamber, valve means for each of said inlet and outlet passage means, controlling means for said valve means, an air intake passage with branches communicating with the said air inlet passages, and a blower in the branch communicating with the inlet passage in the upper portion of the heating chamber, said controlling means in one position effecting closing of valve means for the inlet passage in the upper portion of the heating chamber and the outlet passage in the lower portion thereof and opening of the valve means for the remaining other passages of such heating chamber to effect operation of the gravity heating system having the air to be heated traveling upwardly in the heating chamber, and said controlling means in another position effecting closing of the valve means for the outlet passage in the upper portion of the heating chamber and the inlet passage in the lower portion thereof and opening of the valve means for the remaining passages to effect operation of the forced draft heating system, forcing by said blower in the said one branch of the air intake passage air to be heated into and through the inlet passage in the top portion of the heating chamber and downward travel of such air in the heating chamber.

2,532,090
REFRIGERATOR FOR AUTOMOBILES AND MOTOR BOATS
Jerome J. Dubuc, Burlington, Vt.
Application January 29, 1946, Serial No. 644,020
1 Claim. (Cl. 62—116)



A refrigerator adapted for use in small spaces comprising an outer and an inner compartment, said outer compartment having a rear wall, top, bottom and two side walls, the latter four walls having flanges at their front and rear ends, said rear flanges being adapted for connection with the rear wall, said inner compartment having a rear wall disposed at a predetermined distance and parallel to said rear wall of the outer compartment and top, bottom and two side walls, the latter four walls having at their front an upwardly bent flange and at their rear an inwardly bent flange, the outwardly bent flange of the last mentioned four walls engaging the front flanges of the first stated four walls, insulation means disposed between the said respective four walls of the inner and outer compartment and an insulation layer outside of the rear wall of the inner compartment, a liquifying unit disposed between the outer and inner rear wall, an insulated door closing the front opening of the inner compartment, a food compartment disposed in said inner compartment, and a cooling unit extending from the liquifying unit into said food compartment and an additional cooling coil disposed within the insulation between the walls of the inner and outer compartment.

2,532,091
THERMOPLASTIC TUBE FORMING APPARATUS
Samuel James Everett, Thornton Heath, England
Application February 13, 1948, Serial No. 8,023
In Great Britain February 18, 1947
13 Claims. (Cl. 49—7)

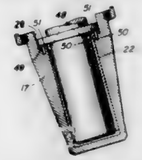


1. An apparatus for forming tubes of thermoplastic material with bores of accurate dimensions and fine quality finish comprising in combination, a supporting frame, a furnace for heating a length of thermoplastic tubing carried on said frame, means for feeding said tubing into said furnace and supported on said frame, means for drawing said tubing from said furnace and supported on said frame, means for driving said feeding and drawing means, variable speed gearing for regulating the relative speeds of said feeding and drawing means, a mandrel extending into said furnace, a mandrel rod extending rearwardly from said mandrel, a readily detachable coupling engaging said mandrel and said rod for providing a driving connection therebetween, an actuating member in operative connection with said mandrel rod to maintain said rod and said mandrel in continuous motion a rod support to the rear of said mandrel and means providing for transverse movement of said rod support relative to said mandrel.

2,532,092
ROLLER JOURNAL FOR HOT-GAS SWEPT BOWL MILLS
Gustav H. Frangquist, Chicago, Ill., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application October 4, 1946, Serial No. 701,096
4 Claims. (Cl. 241—293)

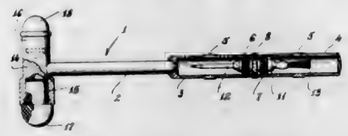
3. In apparatus of the class described comprising a casing that defines a chamber through which hot gases flow for the purpose of drying low temperature material to be ground therein; a bowl rotatably mounted within said casing and having an upwardly extending side wall terminating in a bowl rim; a shaft and means for suspending it at its upper end above said bowl in a substantially upright position and for holding

the shaft against rotation about its axis, the lower portion of said shaft extending inside said bowl and below said bowl rim, the upper portion extending above said bowl rim and being exposed to the stream of the aforesaid hot gases flowing through said chamber and past said upper shaft portion; a roller surrounding the lower portion of said shaft for rotation with respect thereto and being in close contact with and surrounded by the aforesaid low temperature material being pulverized within said rotating bowl; a journal housing within said roller serving as a mounting for the roller; a bushing positioned in said journal housing intermediate it and said shaft to rotate with the housing on the shaft and protruding at the upper end beyond the surrounding housing's



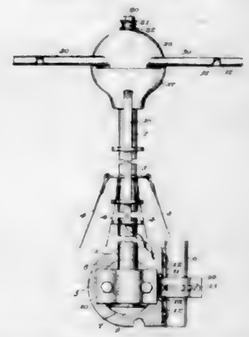
contacting wall, said bushing having an inside diameter sufficiently larger than said shaft's diameter to provide clearance for thermal expansion of said shaft; and means forming a circumferential recess at the protruding end of said bushing and on the interior side thereof, said recess extending downwardly adjacent said shaft for at least the length of the bushing protrusion, whereby side thrusts on said roller which are set up by a grinding of said material between the roller and said rotating bowl and which impose concentrated forces on said bushing's upper portion adjacent its protruding end are prevented from deforming the bushing wall in a way that otherwise might occur with resultant seizure of said shaft.

2,532,093
NEUROLOGICAL HAMMER WITH BRUSH AND NEEDLE HIDDEN IN HANDLE
Samuel G. Golub and Philip G. Field, New York, N. Y.
Application November 13, 1948, Serial No. 59,842
1 Claim. (Cl. 128—2)



A neurological hammer comprising a head having cushioned ends, a rod to which said head is crosswise fixed, a first cylinder having an internally threaded open end and a closed end from which said rod is axially extended and being provided with a knurled collar portion whose outer diameter is larger than the outer diameter of the rest of said first cylinder, a plug having a disk-shaped center portion and externally threaded end portions one of which is secured into the open end of said first cylinder, a second internally threaded cylinder of the same diameter as said first cylinder having a knurled collar portion of the same diameter as the collar portion of said first cylinder and being screwed upon the other end portion of said plug, a needle being attached to one end portion of said plug, and a brush being attached to the other end portion of said plug, the diameter of the disk-shaped portion of the latter being the same as the outer diameter of said knurled collar portions.

2,532,094
TELEVISION ANTENNA
Faust R. Gonsett and Robert R. Gonsett, Los Angeles, Calif.
Application October 27, 1949, Serial No. 123,904
5 Claims. (Cl. 250—33)

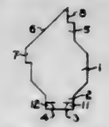


1. A collapsible antenna construction, said construction comprising a post, a base clamp for said post, a head on said post, a support for guy wires, conductor segments, conductor stays and movable antenna elements, said post having a lower section and an upper section, said sections being tubular and telescopically fitted together, the internal dimensions of said lower section being substantially equal to the corresponding external dimensions of the upper section, a portion of said upper section being received in a portion of said lower section with substantially a driving fit whereby said section cannot be accidentally displaced, the upper end of said lower section constituting a shoulder, said base clamp being adjustably secured to and entirely embracing the lower end portion of said lower section, said clamp being provided with means whereby it may be secured to an elevated construction, said guy wire support surrounding and closely fitting said upper section and resting on the upper end and shoulder of said lower section, said antenna elements being secured to and extending radially from said head, said conductor segments being supported in said head and said antenna elements being in contact at their inner ends with one segment, said conductor stays surrounding said post in spaced relation and frictionally engaging the same, said stays having apertured projections to receive conductor leads reeved therethrough.

2,532,095
ROOFING
Herbert G. Goslin, Augusta, Mich., assignor to Sherriff-Goslin Co., Battle Creek, Mich., a corporation of Michigan
Application October 11, 1946, Serial No. 702,619
4 Claims. (Cl. 108—7)

3. A roof made up of interlocked shingles each of which has a substantially parallel-sided body portion with oppositely extending stubs which become upper and lower when laid, each of said shingles having an ear projecting sidewise from one of the parallel sides of the body thereof to form a stop and predetermine the minimum sidewise spacing of said shingles in a single course

laid of same, the lower stub of said shingle being substantially symmetrical with the vertical centerline of said body while being narrower than same and provided with a pair of substantially aligned cross slits each of which extend approximately the same distance inward from the side



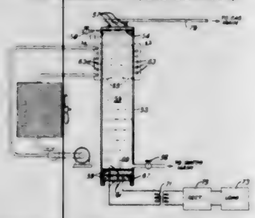
edges of said stub with the adjacent ends of said slits being spaced apart approximately the same distance as the amount of sidewise projection of said ear, the distance between the cross slits and the lower edge of said ear determining the maximum upward exposure of the shingles when laid.

2,532,096

POWER SOURCE

Ralph V. L. Hartley, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 16, 1946, Serial No. 655,000
5 Claims. (Cl. 60—25)



1. A source of oscillatory energy which comprises a substantially vertical closed cylinder vessel having at its upper end a rigid plate and at its lower end a flexible plate, a mass of vaporizable liquid substantially filling said vessel, means for applying heat to said rigid plate so as to form bubbles of vapor at the upper surface of said liquid mass and impress an impulse on said liquid mass with a consequent relative movement of said upper surface, all tending to set up pressure waves in said mass, and cooling means positioned slightly below the upper level of said surface but close enough thereto to transmit a condenser action to said vapor only near the lower extreme of movement of said upper surface, whereby, when taken in connection with the condenser action at said surface by the return impulse after reflection from the flexible plate at the lower end of said vessel, a cyclical energization of said mass is promoted and perpetuated and energy may be produced by vibration of said flexible plate.

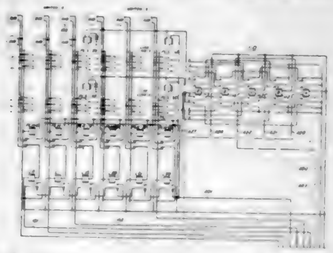
2,532,097

DECENTRALIZED LINE SWITCH ARRANGEMENT

Ralph E. Hersey, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 31, 1946, Serial No. 719,591
7 Claims. (Cl. 179—18)

1. In a telephone system, a central office, a group of subscribers' lines, a line relay individual to each of said lines, a crossbar switch serving said subscribers' lines and located at a distance from said central office, a plurality of equivalent trunks connecting said switch with said central office, means associated with said switch for operating said switch, means in said central office for selecting an idle one of said trunks and for controlling said switch operating means to connect one of said lines with said central office over



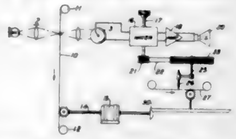
selected trunk, means to operate said selecting and controlling means under the control of one of said line relays, means at said central office to register the designation of one of said lines, and means to operate said selecting and controlling means under the control of said registering means.

2,532,098

AUTOMATIC SOUND REPRODUCING CONTROL SYSTEM

Arthur L. Holcomb, Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 23, 1948, Serial No. 16,488
14 Claims. (Cl. 179—100.1)



1. In a system of apparatus for reproducing a sound record, means for automatically controlling the reproduced sound level including a level control means, an auxiliary record comprising a tape bearing a lengthwise trace the transverse position of which on the tape continuously indicates the desired setting of the level control means, means for progressing the auxiliary record in synchronism with the reproduction of the sound record, optical means for continuously scanning the trace, electrical means controlled by the scanning means for deriving a first and a second voltage proportional respectively to the distances of the trace from one and from the other edge of the tape, means for deriving a third voltage proportional to the difference of the first and second voltages, servo-motor means operating in response to the third voltage to establish equality of the first and second voltages and means controlled by the servo-motor means to set the level control means.

2,532,099

PAINT MATERIAL

Rowland G. Houser, San Francisco, Calif., assignor to Marite Products, Inc., Grass Valley, Calif., a corporation of California

No Drawing. Application July 25, 1949, Serial No. 106,751
1 Claim. (Cl. 106—106)

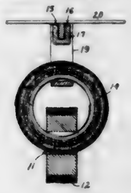
A mixture for use in making a paint or coating material, such mixture consisting of the following ingredients in the following relative proportions: magnesium chloride, seven and one-half pounds; calcium chloride, two and one-half pounds; copper sulphate, four ounces; Epsom salts, eight ounces; aluminum ammonium sulphate, one ounce; magnesite, six pounds; feldspar, four pounds; talc, four ounces.

2,532,100

ELECTROMAGNETIC TRANSDUCER HEAD

Hugh A. Howell, Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill., a corporation of Indiana

Application May 29, 1947, Serial No. 751,257
6 Claims. (Cl. 179—100.2)



1. An electromagnetic transducer head comprising a pair of core members and a pair of coils, one of said coils being an input-output coil which is wound on a first one of said core members and the other of said coils being a single-turn coil wound on both of said core members, said second core member being a U-shaped strap snugly straddling a portion of the second one of said coils, the legs of the U lying in substantially parallel planes, closely spaced together and arranged to have a traveling magnetic record member successively pass across the ends thereof in a path substantially perpendicular to the direction of extension of the legs to form with said second core member a substantially closed magnetic path.

2,532,101

METHOD FOR SEPARATING ROSIN ACIDS FROM MIXED MATERIALS

Nicholas L. Kalman, deceased, late of Rutherford, N. J., by Anna Kalman, executrix, Essex County, N. J., assignor, by mesne assignments, to Pierce Laboratory, Inc., New York, N. Y., a corporation of New York

No Drawing. Application December 1, 1947, Serial No. 789,137
26 Claims. (Cl. 260—97.6)

23. The method of separating rosin acids from mixed materials containing rosin acids, which comprises placing such materials in solution in an organic solvent in which the rosin acids and materials mixed therewith are soluble but in which cyclohexylamine salts of the rosin acids are substantially insoluble, treating the solution with cyclohexylamine, and effecting separation of the resultant rosin acid cyclohexylamine salt at a temperature at which said salt is a solid.

2,532,102

PRODUCTION OF AMMONIUM BERYLLIUM FLUORIDE

Henry C. Kawecki, Fleetwood, and Gordon F. Simons, South Temple, Pa., assignors to The Beryllium Corporation, Reading, Pa., a corporation of Delaware

No Drawing. Application August 18, 1948, Serial No. 44,997
9 Claims. (Cl. 23—88)

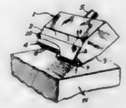
1. The method of producing ammonium beryllium fluoride from beryllium ore which comprises heating the ore with a double fluoride of an alkali metal and a metal of the group consisting of iron and silicon to a temperature sufficiently high to effect decomposition of the ore with the resulting production of sodium beryllium fluoride, disintegrating the sodium beryllium fluoride product in the presence of added water, adding ammonium fluosilicate to the resulting product, and separating therefrom the aqueous phase comprising a solution of ammonium beryllium fluoride.

2,532,103

METHOD AND APPARATUS FOR THERMO-CHEMICALLY SCARFING BILLETS AND THE LIKE

Joseph F. Kiernan, Jersey City, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York

Application April 17, 1947, Serial No. 742,011
14 Claims. (Cl. 148—9.5)



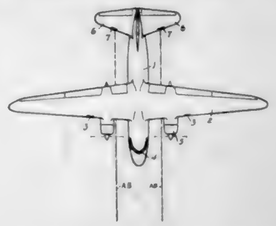
12. The method of scarfing metal bodies which comprises projecting flame jets against the surface of the work to heat the surface metal to kindling temperature, discharging oxygen from a row of discharge orifices to produce a row of individual oxygen jets and directing said oxygen jets toward the surface of the work while the surface metal is at kindling temperature, and in addition to any action which the flame jets may have on the oxygen jets baffling the oxygen jets after the oxygen forming them leaves the discharge orifices and before the oxygen jets impinge on the surface of the work to mingle the oxygen jets into a more sheet-like form.

2,532,104

AIRCRAFT, STABILIZED AND POSITIONED, LIGHT APPARATUS FOR AERIAL NAVIGATION

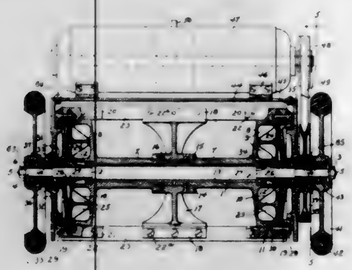
James Thomas King, Burbank, Calif.

Application April 2, 1945, Serial No. 586,046
8 Claims. (Cl. 33—46)



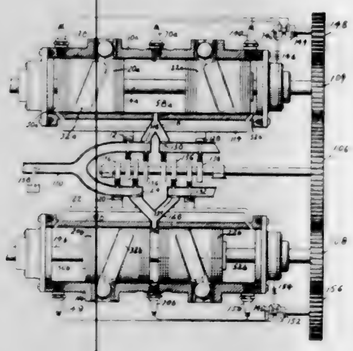
1. In an aircraft having wings and horizontal stabilizers located to the rear of the wings; means for projecting parallel light beams forwardly of the craft from the leading edges of said stabilizers, aviator-controlled, autosyn operated, means for moving said first mentioned means about an axis transverse to the longitudinal axis of the aircraft, in combination with means for projecting conventional landing light beams convergingly from the wings of the plane.

2,532,105
LAWN MOWER
James T. King, Burbank, Calif.
Application January 2, 1946, Serial No. 638,637
9 Claims. (Cl. 56—26)



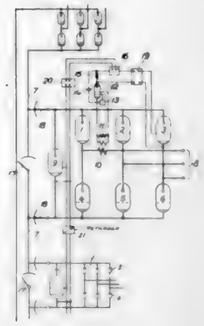
1. In a lawn mower wherein ground wheels are mounted on an axle, a cutting reel freely mounted on said axle, a hydraulic drive comprising a driving element secured to said axle and a driven element forming a part of the cutting reel, and a hydraulic fluid contained within the cutting reel in cooperative association with said driving and driven elements.

2,532,106
MULTIPLE OPPOSED PISTON ENGINE
Theodore Yngve Korsgren, Winnetka, Ill.
Application December 6, 1946, Serial No. 714,458
17 Claims. (Cl. 123—51)



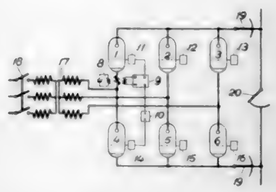
8. A reciprocating engine comprising in combination a cylinder, a pair of opposed pistons in said cylinder, a shaft in said cylinder, means to cause rotation of said shaft in accord with the translational movements of said pistons, said cylinder having an intake port and an exhaust port, said intake port being located towards one end of said cylinder to be uncovered by the stroke of one of said pistons and said exhaust port being located towards the other end of said cylinder to be uncovered by the stroke of the other of said pistons, whereby intake fluid flow is in the same direction through said cylinder as exhaust fluid flow, said intake port being located so as to open after and close before said exhaust port so as to improve scavenging of spent fluid from said cylinder and intake of fresh fluid thereto.

2,532,107
MEANS FOR PROTECTING INVERTERS AGAINST DISTURBANCES
Uno Lamm, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application May 13, 1947, Serial No. 747,800
In Sweden May 14, 1946
7 Claims. (Cl. 321—11)



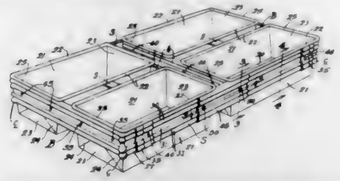
1. In an inverter having a plurality of valves, at least some of which are normally blocked when certain others are active, means responsive to a disturbance on the alternating current side of the inverter of a nature likely to cause a failure of commutation acting to open and keep open a direct valve path between direct current terminals of the inverter.

2,532,108
STATIC CURRENT CONVERTER WITH MEANS FOR PUTTING IT OUT OF FUNCTION
Uno Lamm, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application May 17, 1947, Serial No. 748,810
In Sweden May 25, 1946
9 Claims. (Cl. 321—11)



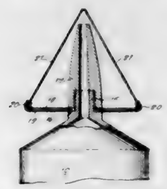
1. In a static current converter having a plurality of valves which are normally alternately blocked during one part of the cycle of operation and released during another part, means responsive to an abnormal disturbing condition likely to result in failure of operation of the converter to release at least one of said valves during the normal blocking part of its cycle to form a by-pass valve path for said converter containing substantially no voltage derived from the alternating current side of the converter.

2,532,109
MULTIPLE BAKING PAN
Adrien L. Langel, Chicago, Ill., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 12, 1946, Serial No. 661,837
2 Claims. (Cl. 220—23.2)



1. A multiple baking pan comprising a plurality of like pans arranged side by side in plural rows, and a framework for uniting all the pans comprising side bands extending along the sides of the pans in all the rows, the ends of the bands being offset to provide vertical shoulders, the bands in the region between rows being offset to provide vertical shoulders, end bands disposed along the ends of the pans and being flanged at their opposite ends to engage the first mentioned shoulders on the side bands, and straps disposed between the side bands in the region between rows, and flanges on the opposite ends of the straps adapted to engage the last mentioned shoulders on the side bands.

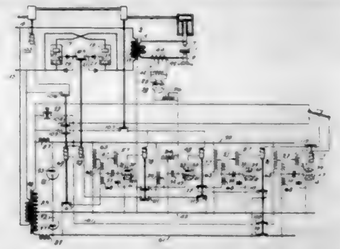
2,532,110
EYELASH APPLICATOR
Leo Lenz, New York, N. Y.
Application April 14, 1947, Serial No. 741,278
3 Claims. (Cl. 15—135)



1. An eyelash applicator comprising a collapsible tube for dispensing mascara paste, a nozzle on an end of the tube, a brush support on the tube and extending radially therefrom in a pair of diametrically opposed portions, a flat band of bristles secured to the outer end of each portion, and said bands of bristles being mutually convergent from the outer ends of said support portions with the free ends of the bristles meeting in and along a straight line intersecting the axis of the nozzle.

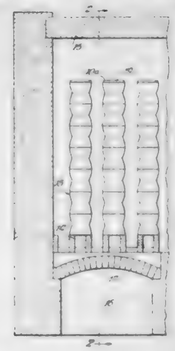
2,532,111
WELD TIMING CIRCUITS
Richard L. Longini, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 12, 1948, Serial No. 32,572
24 Claims. (Cl. 219—4)

1. Apparatus for controlling the supply of current to a load requiring different quantities of power under varying conditions, comprising, in combination, terminals for supplying a potential, a first variable resistor connected to said terminals, a second resistor and a capacitor in parallel connected to said resistor and one terminal of said source of current, a valve which becomes conductive when said capacitor is charged to a predetermined potential, relay means connected



to said valve, said relay means including means which stops the flow of load current when current flows through said valve.

2,532,112
CHECKER FOR FURNACES
Fred H. Mackensen, Bettendorf, Iowa, assignor to Mexico Refractories Company, Mexico, Mo., a corporation of Missouri
Application December 16, 1944, Serial No. 568,431
6 Claims. (Cl. 263—51)



3. A checker installation for regenerative furnaces comprising a supporting structure, and hollow annular piers of refractory material resting on said structure and spaced from each other and open at both ends, thereby providing air passages through the piers and between them, the piers comprising sections increasing in cross sectional area alternated with sections decreasing in cross sectional area, the slope of the surfaces in both sections being so small as substantially to prevent accumulation of fine particles carried by waste gases into said air passages, the top and bottom ends of said piers being at the points of greatest cross sectional area, the surfaces where the directions change being curved in the direction corresponding to the length of the piers.

2,532,113
ICE CUBE TRAY
Logan L. Mallard, Norfolk, Va., assignor of one-half to H. Clay Hofheimer II, Norfolk, Va.
Application April 27, 1938, Serial No. 204,646
6 Claims. (Cl. 62—108.5)

1. An ice cube tray comprising a receptacle, a grid structure arranged in said receptacle and comprising a substantially vertical longitudinal

separator formed of a plurality of sections pivotally connected for movement in the vertical plane of said separator, and a plurality of transverse sections connected for relative movement with respect to said longitudinal sections, a pair of normally aligned links, means connected to the remote ends of said links to transmit a down-

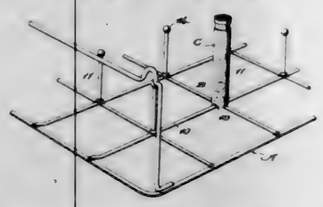
ward force to the adjacent ends of the receptacle and thus generate an upward reaction tending to swing the remote longitudinal sections upwardly to pivot said longitudinal sections with respect to each other upon movement of the inner ends of said links toward each other, and means for effecting movement of the inner ends of said links toward each other.

2,532,114

SLEEVE OR BUSHING FOR HOLDING BOBBINS FIRMLY ON THE PINS OF PIN TRAYS

George McGee, Wilkes-Barre, Pa., assignor to Johnson Engineering and Manufacturing Co., Wilkes-Barre, Pa., a firm

Application July 8, 1947, Serial No. 759,638
7 Claims. (Cl. 242—130)



2. A sleeve or bushing to be engaged on a pin of a bobbin holding pin tray and to fit closely in the axial bore of a bobbin engaged on the pin to hold the bobbin firmly engaged with the pin, said sleeve or bushing being formed from inherently resilient material and having an axial bore of slightly lesser normal diameter than the diameter of the pin to adapt it to engage frictionally and tightly with the pin when forced thereon, the end portions of said sleeve or bushing having normal external diameters slightly greater than the diameter of the bore of the bobbin to adapt them to be compressed by forcing of the bobbin over the same and thereby to act effectively to hold the bobbin firmly on the pin, the portion of said sleeve or bushing between the said end portions thereof being of lesser external diameter than the diameter of the bore of the bobbin.

2,532,115

WEED EXTRACTOR

Roy E. McKinney, Dallas, Tex.

Application April 8, 1948, Serial No. 19,801
3 Claims. (Cl. 254—132)

3. A weed extractor including a hollow shaft having a handle on one end, a spring loaded rod reciprocably arranged in said shaft having a soil anchor on its extended end, an annular protuberance on said rod above said anchor providing a depth predetermining stop, a weed eroding fork pivoted to said shaft above said anchor and means on said fork adapted to engage said annular protuberance when a downward thrust

is imposed on said shaft to propel said fork upwardly on its pivot.

2,532,116

INFANT'S TEETHING TOY

Foster Monaco, Jackson Heights, N. Y.

Application December 20, 1948, Serial No. 66,269
1 Claim. (Cl. 46—175)

A teething ring comprising a transparent ring of tubular cross section, a transparent hollow handle extending downwardly from and in communication with said ring, a ball capable of rolling freely within said ring and said handle and contained therewithin, said handle having undulating walls forming a wavy channel, and steps projecting from at least one of said walls into said channel, said steps being disposed at respective wavecrests along at least one of said walls, said steps having their upper surface depressed in a concave manner so as to receive and maintain said ball when caught therein until said ball is detached therefrom by external force.

2,532,117

NICKEL STEEL ALLOYS

Harold D. Newell, Beaver Falls, Pa., assignor to The Babcock & Wilcox Tube Company, West Mayfield, Pa., a corporation of Pennsylvania

No Drawing. Application September 17, 1946, Serial No. 697,570
5 Claims. (Cl. 75—125)

1. A forgeable and machinable alloy steel characterized by high resistance to alkali and mild acidic corrosion, said steel having the following composition

from 0.03 to 0.20% carbon
from 0.20 to 1.00% manganese
from 0.02 to 0.40% silicon
from 7.50 to 12.00% nickel
from 0.20 to 2.00% copper
up to 6.00% chromium
up to 2.00% molybdenum

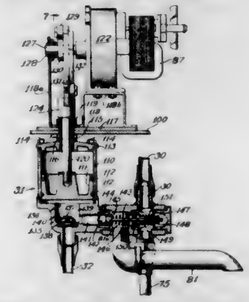
and up to 1.00% of a carbide former selected from the group consisting of titanium, columbium, zirconium and vanadium; balance iron and incidental impurities.

2,532,118

BEVERAGE DISPENSING APPARATUS

Ralph A. Nicholson, Chicago, Ill., assignor, by mesne assignments, to Lyon Industries, Inc., New York, N. Y., a corporation of Delaware

Application September 17, 1945, Serial No. 616,855
14 Claims. (Cl. 222—133)



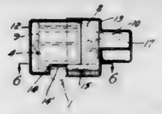
1. Dispensing apparatus comprising a liquid supply, a mixing valve operable to withdraw liquid from said supply and forcibly eject the same under pressure above atmospheric, means connecting said valve with a second liquid supply under pressure, means in said valve operable by ejecting displacement of said first liquid therein for admitting and mixing said second liquid with the first liquid, and means providing egress at atmospheric pressure for the mixed liquids from said valve.

2,532,119

CASE FOR FISHING REELS

Charles C. Reynolds, Minneapolis, Minn., assignor to Reyson, Inc., Minneapolis, Minn., a corporation of Minnesota

Application April 29, 1948, Serial No. 23,974
3 Claims. (Cl. 206—1)



1. A case for fish line reels having a mounting base for use in attachment to a rod and a radially-projecting crank, said case comprising a pair of tubular sections each closed at one end and adapted to be telescoped one upon the other, one of said sections having an outwardly-opening notch in its side wall for receiving said reel-mounting base, said notch terminating in spaced relation to the closed end of said case section, the other of said tubular sections having an elongated wedge-shaped tongue adapted to be frictionally received in the outwardly-opening notch of the first-mentioned section under telescoping movements of the two sections, said slotted case section being substantially circular in cross section, and said tongue-carrying case section being provided with a radially outwardly-bulged portion to receive therein said radially-projecting crank.

2,532,120

CONDENSATES OF ROSIN WITH UNSATURATED CARBOCYCLIC COMPOUNDS

Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 21, 1946, Serial No. 671,392
19 Claims. (Cl. 106—227)

1. A new composition of matter comprising a material of the group consisting of a resinous product of carbon-carbon condensation in the presence of an acid-acting condensation catalyst of rosin with an unsaturated carbocyclic hydrocarbon having a single center of unsaturation and being capable of self-polymerization to a hemicolloid and aliphatic esters of said resinous product, the molar ratio of rosin to carbocyclic hydrocarbon in the condensation product being from about 0.1 to 20.

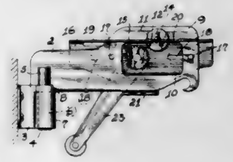
12. A coating composition comprising a resinous material selected from the group consisting of a resinous product of carbon-carbon condensation in the presence of an acid-acting condensation catalyst of rosin with an unsaturated carbocyclic hydrocarbon having a single center of unsaturation and being capable of self-polymerization to a hemicolloid and aliphatic polyhydric alcohol esters of said resinous product, the molar ratio of rosin to said carbocyclic hydrocarbon in the condensate being from about 0.1 to 20; and a volatile petroleum hydrocarbon solvent in an amount sufficient to yield a readily flowing mixture capable of application in a thin film.

2,532,121

CAN OPENER

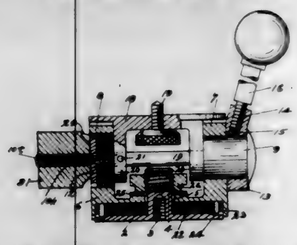
Thomas L. Rush, Cleveland, Ohio

Application February 8, 1946, Serial No. 646,254
3 Claims. (Cl. 30—9)



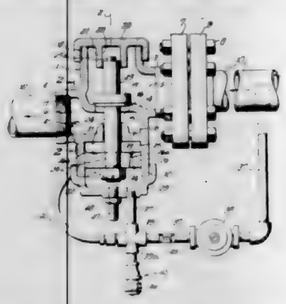
1. In a can opener, a base member having an elongated hole, a cutting blade mounted on one side of said base member midway above said elongated hole so as to extend partly opposite said elongated hole, an elongated slide member shiftably coupled with said base member, a traction element rotatably mounted on said slide member so as to extend within said elongated hole of said base member, and laterally spaced means shiftably connecting said slide member with said base member, said spaced means arranged to limit shifting of said slide member to hold the traction wheel in all possible positions within the elongated hole of said base member.

2,532,122
TRIPOD HEAD
John F. Schroeder, Los Angeles, Calif.
Application January 24, 1947, Serial No. 724,049
2 Claims. (Cl. 248—183)



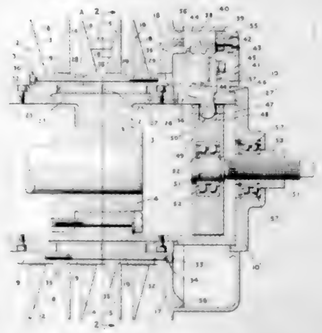
1. A tripod head comprising a table plate having a central, bottom hole threaded to receive a tripod cap screw and having on its top a post coaxial with said hole and whose upper part is externally threaded, a block swivelled on said post to turn therearound and having diametrically opposite bearing ears outwardly from said post, mutual friction discs centered on said post and some of which are keyed to the post and some to the block in alternate assembly and being countersunk in the bottom of said block and bedded on said table, a camera bed having a pair of lugs fitting between said ears, a spindle fixed in said lugs and journalled in said ears and extending above and across the axis of the post and rockably connecting said bed to the block, a finger-operative nut threaded on the post and readily accessible just below the said spindle and clamping said block whereby said block is forced down on the uppermost of said discs to regulate their frictional resistance to rotation of the block about the post, manually set friction means in one of said ears and on one end of the spindle to regulate tilting friction of the bed, and a manipulating handle fixed on the opposite end of the spindle; said table having a coaxial camera connecting, finger screw arranged just above said spindle.

2,532,123
PRESSURE OPERATED VALVE
William E. Shafer, San Francisco, Calif.
Application March 21, 1945, Serial No. 583,896
4 Claims. (Cl. 137—139)



1. In a valve, a valve body having a vertically directed axis and inlet and outlet passages with overlapping portions separated by a wall in the body, there being an axial port through said wall adapted to establish communication between said passages, a closure member for controlling the port and urged to closed position by fluid pressure in the inlet passage, a cylinder connected to the body adjacent said outlet passage and closed at its opposite ends, a piston slidable in said cylinder and connected to operate said closure member, and co-operating with the cylinder to form a pair of chambers, there being a restricted port through said piston for establishing communication between the chambers, means whereby that chamber adjacent the outlet passage is in continuous communication with the outlet passage, means forming a constantly open vent for the other chamber at the lower end of said other chamber, and means for optionally admitting fluid under pressure to said other chamber at a rate greater than that at which said fluid can escape through said vent and said restricted port, to move the piston to actuate the closure.

2,532,124
VARIABLE SPEED POWER TRANSMISSION
Louis Eaton Shaw, East Orange, N. J.
Application June 15, 1948, Serial No. 33,127
7 Claims. (Cl. 74—230.17)



4. In a variable speed drive, a main sleeve, an attaching hub detachably carried by said main sleeve for attaching the sleeve to a shaft, two cooperating sheave flanges slidably mounted on said main sleeve, digitated sleeves formed on said flanges and mounted on said main sleeve for axial movement thereon, means for keying the digitated sleeves of said flanges to said main sleeve for rotation therewith, an actuating extension on one of said flanges, an actuating extension on the other of said flanges, an actuator including an actuating head and a carrying yoke, means for pivotally moving said yoke in a plane parallel to the axis of said main sleeve, and means on said actuating extensions inter-engaging with said actuating head to move said flanges axially in opposite directions upon pivotal movement of said yoke.

2,532,125
SELECTIVE STATION RINGING SYSTEM
Fred J. Singer, Rockville Centre, N. Y., and Leland J. Stacy, Chester, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 28, 1949, Serial No. 73,373
3 Claims. (Cl. 179—28)

1. In a selective ringing system a line having tip and ring conductors to which conductors are

connected a plurality of substations arranged in groups of four, of which all members of a group are possibly but not necessarily present, a tuned relay and condenser in series bridged across the line at each station, each relay of a group of four being tuned to a common frequency, relays of each successive group of four being tuned to different frequencies common to each group, a ringer and ground connection at each station, a multielectrode gas discharge tube at each station, means at each station connecting a control anode of said tube to a contact of said tuned relay, further means at each station connecting a main anode of said tube to an armature of said relay, a first station of each group having the main anode of its gas tube connected to the tip conductor of said line and the cathode of said tube connected through said ringer to ground, a second station of each group having the cathode of its gas tube connected to said tip conductor and the main anode of said tube connected through said ringer to ground, a third station of each group having the main anode of its gas tube connected to the ring conductor of said line and the cathode of said tube connected through said ringer to ground, and a fourth station of each group having the cathode of its gas tube connected to the ring conductor of said line and the main anode of said tube connected through said ringer to ground.

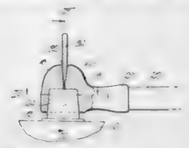
2,532,126
DIAZOTYPE PHOTOGRAPHIC MATERIAL
Sam Charles Slifkin, Binghamton, and Henry C. Unkauf, Endicott, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 16, 1946, Serial No. 716,670
5 Claims. (Cl. 95—6)

1. A diazotype photographic material comprising a light-sensitive para-diazo compound of the following formula:

where R_1 represents a member selected from the group consisting of hydrogen, an alkyl group and an alkylol group; R_2 represents a member selected from the group consisting of an alkyl group and an alkylol group; X represents a member selected from the group consisting of an alkyl group, an alkoxy group, an alkylol group, and a carboxy group; and a coupler of the following general formula:

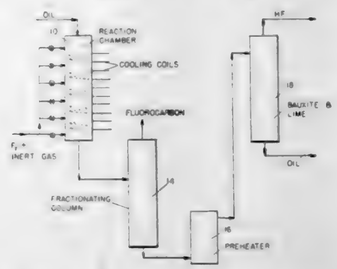
where X represents a member selected from the group consisting of hydrogen, $-(CH_2)_nCOOH$, alkyl and alkylol groups, n being a small number; Y is selected from the group consisting of hydrogen and $-SO_3H$ and a salt thereof; Z is selected from the group consisting of hydrogen and an aminomethyl group and wherein when X is hydrogen at least one of Y and Z is other than hydrogen in the proportion of about 1 to 3 mols of coupler to 1 mol of diazo compound.

2,532,127
BATTERY POST GRIPPING HEAD FOR ELECTRIC CABLES
William N. Stevenson, Fairland, Okla.
Application August 25, 1948, Serial No. 45,987
1 Claim. (Cl. 173—259)



A battery post gripping head for electric cables comprising a solid body having a cavity formed therein, said cavity being adapted to receive a portion of a battery post and being frusto-conical in conformity with the contour of said battery post, said body being divided through the cavity, presenting a pair of substantially complementary sections; a projection on one of the body sections for receiving an electrical cable; diametrically opposed, outwardly-extending pintles integral with one of said body sections and adjacent the innermost end of said cavity; a perforated ear on the other body section for pivotally receiving each pintle respectively; and a flat, tapered, wedge-like key insertable between said body sections in opposed relationship to said cavity for forcing the body sections into clamping relationship with the battery post when the latter is in the cavity, the outermost end of the battery post engaging said end of the cavity, and the walls of said body sections adjacent said key diverging outwardly in conformity with the contour of said key when the latter is inserted between the body sections.

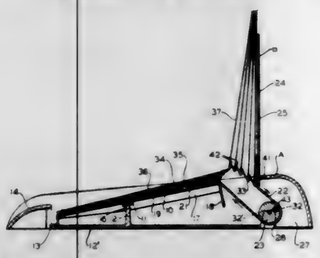
2,532,128
METHOD OF PREPARING A CRACKING OR REFORMING FEED STOCK
John Watson Teter, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application June 21, 1947, Serial No. 756,314
2 Claims. (Cl. 196—23)



1. In the preparation of hydrocarbon feed stocks for cracking or reforming the process which comprises treating the feed stock containing aromatic constituents with fluorine to cause scission of the aromatic ring compounds to aliphatic compounds, separating saturated fluorocarbons and subjecting the product from which the fluorocarbons have been separated to a

dehydrofluorinating treatment to obtain a cracking feed stock substantially free from fluorine and with a greatly reduced aromatic content.

2,532,129
SELECTABLE INDEX
John F. Thull, Minneapolis, Minn., assignor to Brown & Bigelow, St. Paul, Minn.
Application January 2, 1947, Serial No. 719,879
7 Claims. (Cl. 40—104)

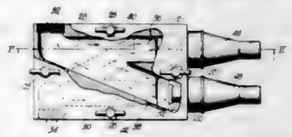


1. A hinged index comprising a base, a fulcrum positioned transversely on the inner surface of the bottom of said base, a plate adapted to be positioned on said fulcrum, means to limit the movement of said plate on said fulcrum, a series of indexed sheets positioned one upon the other on said plate, an exposed portion on the front portion of each of said sheets forming tabs, a cover for said sheets, a hinge consisting of a series of folds fastened to the rear end of said plate and to said cover for said sheets, the inner ends of said sheets fastened into said folds of said hinge, a puller belt fastened to the inner end of said plate and the inner end of said cover, an idle roller over which said belt is adapted to extend, whereby when a tab of one of said sheets is depressed, said sheets are hingedly divided exposing the selected sheets.

2,532,130
WINDOW MOUNTING
Charles H. Turner, Webster, Mass., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 30, 1946, Serial No. 693,859
4 Claims. (Cl. 20—56.4)

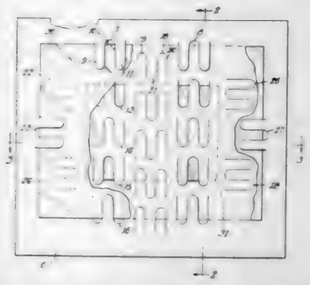
1. A demountable window unit comprising a glass panel and a mounting frame member adapted for insertion into a window opening as a preassembled unit, said frame member comprising an integral part of flexible material having an inwardly presented channel adapted continuously to embrace and receive said panel, an outwardly presented marginal seat portion extending continuously about said member in planes substantially at right angles to a plane parallel to said panel and adapted to engage within said opening, an outwardly directed sealing flange coextensive with said seat portion operatively disposed substantially at right angles thereto and disposed at one side thereof in position to engage the outside surface around the window opening to fix the position of the unit in said opening, an undercut groove in the frame member substantially coincident with the inside surface around the window opening and disposed wholly within the projected area of said opening, and a retaining member substantially parallel to said flange removably engaged in said groove and overlapping said inside surface to provide with said flange an outwardly directed channel engaging said outside and inside surfaces around the window opening beyond said marginal seat portion to secure said unit in the window opening.

2,532,131
TAMALE FORMING MACHINE
George Van Voorst, Kansas City, Mo., assignor to Rutherford Food Corporation, Kansas City, Mo.
Application February 3, 1947, Serial No. 726,183
2 Claims. (Cl. 107—1)



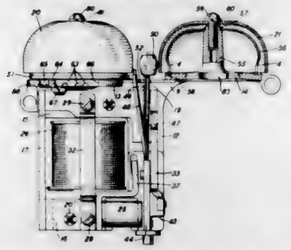
2. In a tamale forming machine, a head having a pair of inlet openings and a pair of outlet openings; an elongated tubular nozzle connected with the body in communication with each outlet opening respectively; a substantially Y-shaped passage formed in the body having a stem in register with one inlet opening and a leg in register with each outlet opening respectively; an elongated tubular spout connected with the body and telescoped within each outlet opening and the corresponding nozzle respectively and in spaced relationship to the walls thereof, each spout intersecting a respective branch of said passage; and a second substantially Y-shaped passage formed in the body, having a stem in register with the other inlet opening and a leg in register with each spout respectively.

2,532,132
CARDHOLDER
Paul R. Vogel, Chicago, Ill.
Application October 10, 1946, Serial No. 702,469
3 Claims. (Cl. 40—124)



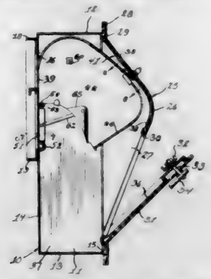
1. A card holder comprising a sheet of stiff material having a plurality of separate, generally W-shaped slits therein, said slits each defining three flaps which are bendable out of the plane of said material on either side of said material, two of said flaps facing in one direction and the other flap facing in the opposite direction to comprise a flap group, said groups of three flaps being arranged in rows with the flaps of one row being staggered with respect to corresponding flaps in adjacent rows whereby cards of the same or various sizes may be held by said flaps on either and both sides of said material, said flaps overlapping opposite card edges.

2,532,133
VOLUME CONTROL FOR TELEPHONE RINGERS
William E. Whidden, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 9, 1949, Serial No. 86,547
8 Claims. (Cl. 177—7)



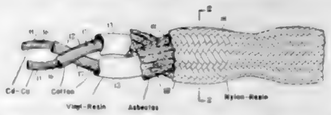
1. The combination in a telephone ringer of a rotable gong mounting, a gong, a resonator having an opening therein, a clapper for striking said gong having a normal position, means for mounting said gong and said resonator in fixed spaced relation on said gong mounting, and means for effecting the rotation of said gong mounting relative to the normal position of said clapper whereby the location of the opening in said resonator relative to the normal position of said clapper varies as said gong mounting is rotated.

2,532,134
WALL RECEPTACLE
George P. Wiedman, North Tonawanda, N. Y.
Application August 5, 1947, Serial No. 766,144
6 Claims. (Cl. 232—19)



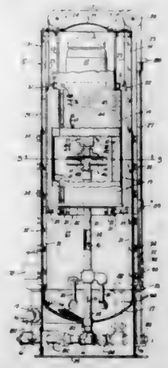
1. A receptacle for receiving mail and small packages and adapted to be mounted in a wall, comprising a box-like body having a front wall provided with an opening therein and a rear wall provided with an opening therein, a door for said second opening, a receiver arranged within said body adjacent said first opening, means pivotally mounting said receiver on said body, said receiver having a panel adapted to close off and uncover the upper portion of said first opening, a second door operatively arranged to close off and uncover the lower portion of said first opening, and means operatively connecting said second door to said receiver whereby said second door is moved in response to the movement of said receiver.

2,532,135
HEATER CORD
Joseph B. Whyland, Hamden, Conn., assignor to The Whitney Blake Company, Hamden, Conn., a corporation of Connecticut
Application March 10, 1947, Serial No. 733,675
4 Claims. (Cl. 174—113)



1. An improved heater cord comprising a plurality of conductors, each consisting of an annealed alloy of cadmium and copper wherein the cadmium content is from about 1% to about 1.5%; a separator wound on each conductor; a polymerized vinyl-resin dielectric material coated on each conductor, said polymerized vinyl-resin dielectric comprising a copolymer of vinyl-chloride and vinylacetate; a heat-insulation material covering each of said dielectric-coated conductors; and a sheath enclosing the heat-insulated dielectric-coated conductors.

2,532,136
GRAINING OR ABRADING LITHOGRAPHIC PLATES OR THE LIKE BY CENTRIFUGAL BLAST OF WET SLURRY
Otto E. Zahn, Mishawaka, Ind., assignor to American Wheelabrator & Equipment Corporation, Mishawaka, Ind., a corporation of Delaware
Application March 17, 1949, Serial No. 81,896
11 Claims. (Cl. 51—9)



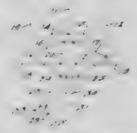
1. In a graining machine, an upright, substantially cylindrical cabinet, a non-directional blast wheel whose plane is substantially horizontal, means for rotating said wheel, said wheel comprising a plurality of substantially radial blades and having an open center, a feed conduit feeding material to said open center, means for feeding a slurry of liquid and solid particles to said conduit, an elevator cage having means for supporting the plate to be grained,

and means for reciprocating said cage up and down in a path surrounding said wheel to subject substantially all parts of the work plate to said slurry blast.

2,532,137
DIPHENYL-t-6-HYDROXYDEHYDRO-ABIETINOL
Harold H. Zeiss, Fairlawn-Radburn, N. J., assignor, by mesne assignments, to Pierce Laboratory, Inc., New York, N. Y., a corporation of New York
No Drawing. Original application October 26, 1946, Serial No. 706,068. Divided and this application April 10, 1950, Serial No. 155,775
1 Claim. (Cl. 260—97)

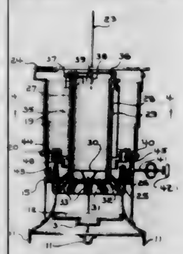
Diphenyl-t-6-hydroxydehydroabietinol.

2,532,138
TELEVISION AERIAL
Arreather Ray Atchison, Detroit, Mich.
Application June 18, 1949, Serial No. 99,939
6 Claims. (Cl. 250—33.53)



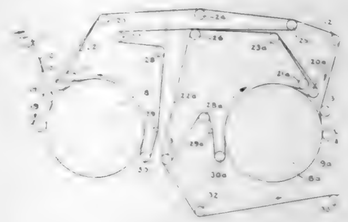
1. An antenna array consisting of a substantially rhombic antenna divided into two sections, a dipole antenna having one dipole connected to each section of the rhombic antenna, the dipole being folded and serving as a connection between said rhombic sections, and a vertical antenna member connected substantially to the mid-point of the folded dipole.

2,532,139
PORTABLE HEATER AND COOKER
William A. Bailey, New York, N. Y.
Application October 15, 1945, Serial No. 622,244
4 Claims. (Cl. 158—72)



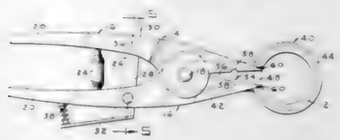
3. An apparatus of the character described comprising a base; a casing conformed to and mounted upon said base; a cylindrical fuel receptacle supported upon said base, said fuel receptacle being open at its top and provided with a cover, and provided at its base with a fuel outlet; a burner on said base; means connecting said fuel receptacle with said burner; a valve for controlling the supply of fuel to said burner; said burner including an annular trough-shaped member, a wick in said trough-shaped member and an annular baffle conformed to and adapted to enclose the open end of said annular trough-shaped member, said baffle having secondary air passages therein; means on said baffle for adjusting the same relative to said trough-shaped member; means for actuating said fuel supply valve, and means independent of said last means for actuating said baffle adjusting means.

2,532,140
PROCESS OF COATING PAPER
William H. Barrett and Bernard K. Asdell, International Falls, Minn., assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application November 24, 1943, Serial No. 511,754
5 Claims. (Cl. 117—103)



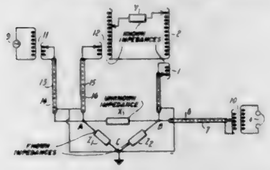
3. A method of applying mineral coating of a solids content of about 61% to about 72% to a fast moving web of paper having a moisture content of about 2% to about 10%, comprising applying the mineral coating to a rotatable resilient surface, transferring the coating on the resilient surface to the web of paper, carrying the web of paper in contact with a heated supporting surface for a portion of the surface of the said supporting surface, and redistributing the moisture content of the coated web of paper while on the said supporting surface by means of a moving felt after the coating has received a preliminary set.

2,532,141
SPLIT RING EXPANDER
Louis R. Barkan and Morris L. Anderson, Massillon, Ohio, assignors to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 9, 1947, Serial No. 759,822
3 Claims. (Cl. 29—229)



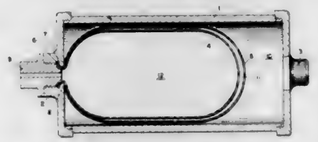
1. A tool for expanding a resilient split ring comprising a member having a circular opening therethrough, a circumferential inwardly tapered wall recess adjacent the opening and a radial slot connected with the recess, the taper thereof flaring radially outwardly from the face of the recess to the bottom thereof, a pair of substantially identical members pivoted on the first member having notched fingers movable in the slot, adapted to be engageable with the free ends of a ring received in the recess with its split portion in radial alignment with the slot, for expanding the ring into engagement with the circumferential inwardly tapered wall of the recess, means on the first member in line with the pivot axis of the pair of members and opening through the first member engageable by the pair of members for positioning the members relative to one another in their normal stationary position, spring means interposed between the members on the opposite side of their pivot from their notched finger end for normally holding the members against the positioning means, means associated with the pivotal members for locking said members in predetermined expanded position, and means for releasing said locking means.

2,532,142
ELECTRICAL BRIDGE ARRANGEMENT
Alan Dower Blumlein, deceased, late of Ealing, London, England, by Doreen Walker, executrix, Lanherne, Lescudjack, Penzance, Cornwall, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application June 22, 1946, Serial No. 678,712
In Great Britain July 17, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 17, 1961
9 Claims. (Cl. 175—183)



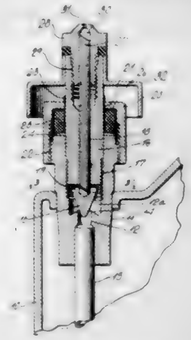
1. An electrical bridge arrangement for measuring an unknown impedance comprising at least four known impedance elements serially coupled together to form a closed loop bridge network, a source of alternating potential, means coupling said source to one of said known elements, network balance indicating means coupled to said network, means coupling said one of said elements to an intermediate point on a third of said known elements, means connecting said unknown impedance to said bridge network effectively in shunt with the first and second of said serially coupled elements, and means for adjusting one of said known elements to effect a balance of said network, the value of said unknown impedance being a function of the adjustment of said adjusting means when said indicating means indicates that said network is balanced.

2,532,143
ACCUMULATOR
Robert J. Breit, San Antonio, Tex., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application April 6, 1946, Serial No. 660,261
4 Claims. (Cl. 138—30)



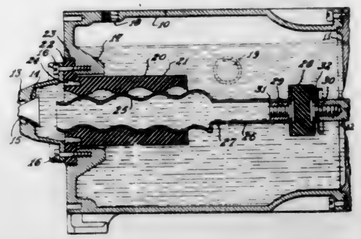
1. In a fluid energy storage accumulator unit, a container, a diaphragm in said container comprising a flexible inner bag with one open end for receiving pressure fluid to be stored, an outer bag surrounding said inner bag mainly in spaced relation but having its one end bonded to said inner bag.

2,532,144
INSECTICIDE BOMB
Gregory Brown, Bridgeport, Conn.
Application September 15, 1944, Serial No. 554,230
1 Claim. (Cl. 299—150)



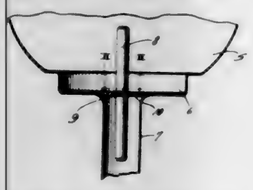
In a device for controlling the flow path through a member having a central passageway terminating at one end in a recess of enlarged diameter and in the other end in a radial passageway, a bushing threaded to said recess and having its bore terminating in a discharge orifice in the exposed end of said bushing and a fluted rod partly received in said bore and partly in said passageway, said rod terminating at each end in a face oblique to the rod axis, said fluted rod forming with the surfaces of said bore and passageway a plurality of channels each terminating in the oblique faces at the opposite ends of said rod.

2,532,145
PUMP
Frederick Cameron Byram, Springfield, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application March 2, 1948, Serial No. 12,529
12 Claims. (Cl. 103—117)



1. A pump having a casing with inlet and outlet parts, and having as working elements a stator having a helically threaded bore, and an externally helically threaded rotor, said rotor having one less thread than said stator, said stator being flexibly mounted at one end with reference to said casing, and said rotor being flexibly mounted at one end with reference to said casing, means for rotating said rotor whereby said rotor and stator are caused to orbit, rotatively and non-rotatively respectively, in conical paths, said stator bore and said rotor being tapered and disposed with their larger ends toward that end of the casing at which said rotor is flexibly mounted.

2,532,146
STRAINER FOR COFFEE MAKERS AND METHOD OF MAKING SAME
Martin T. Cahenzli, Jr., Chicago, Ill., assignor to The Harry Alter Company, Chicago, Ill., a corporation of Illinois
Application April 12, 1946, Serial No. 661,758
3 Claims. (Cl. 210—162)

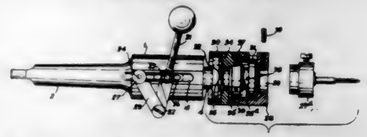


1. In a strainer, a metallic rod externally knurled in the central region thereof, said knurled portion having a greater outside diameter than the remainder of said rod, and a liquid perforate but solid impervious filter disc pressed over the knurling on said rod and into the interstices of the knurling, said filter disc being slightly reduced in thickness and denser immediately adjacent said rod.

2,532,147
LAWN EDGING SPADE ATTACHMENT
Shirley Ralph Christiansen, St. Cloud, Minn.
Application April 1, 1946, Serial No. 658,780
2 Claims. (Cl. 97—227)

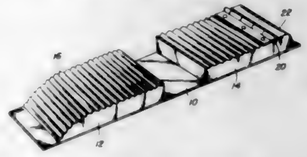
1. In a sod and soil edge trimmer attachment for spade-like implements, a substantially U-shape body yoke pivotally attached at its opposite end portions respectively to each of a pair of bracket elements, said bracket elements having meeting end portions connectible by a tightenable securing element, the outer end portions of said bracket elements being clampingly engaged with the opposite vertical edges of the blade element proper of the implement and at selectively different working positions up and down on said blade element proper edges, the intermediate portion of said body yoke being swingable up and down on the pivotal axis of the yoke body in front of the implement blade element proper, and an arcuate attachment blade element supportedly attached adjacent its upper edge to the intermediate portion of said body yoke, extending downwardly therefrom and curving workably towards the attachment blade element proper, said attachment blade element in its lower position, resting in contact with the adjacent outer face portion of implement blade element proper.

2,532,148
THREADING TOOLHOLDER WITH ADJUSTABLE LIMIT STOP
Terence Reginald Christopher, London, England
Application January 10, 1946, Serial No. 640,199
In Great Britain January 17, 1945
4 Claims. (Cl. 10—89)



1. A device for cutting screw threads, drilling and other operations and adapted for use on a machine tool such as a centre lathe, said device comprising a hollow cylindrical body having a longitudinal slot passing through its wall and a stem for fitting in the machine tool to support said device, a tool holder having a stem which is mounted in said body to slide axially therein, a hand lever having a pivotal mounting on said body and operatively engaged with said tool holder stem to reciprocate said stem in said body, a radial pin fixed in said tool holder stem, said pin passing freely through said slot in said body, a radial pin fixed in said body adjacent to the outer end of said slot, and a stop element adjustably supported by one of said pins for engagement by the other of said pins in the advance movement of said tool holder stem, to determine the extent of said advance movement of the tool holder stem.

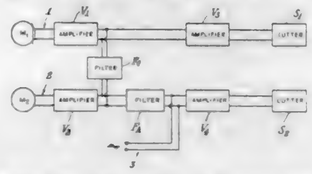
2,532,149
TIRE CHAIN INSTALLER AND CAR MOVER
Loris E. Cone, Pullman, Wash.
Application October 15, 1947, Serial No. 779,916
7 Claims. (Cl. 254—88)



1. For use in the application of anti-skid chains to vehicles and to provide traction for a vehicle wheel disposed in a depressed region, a flexible support, a ramp secured to said support, a platform secured to said support and spaced from said ramp, and at least the portion of said support between said ramp and said platform being deformable to various bends and curvatures so as to be capable of conforming generally to the contour of the depressed region wherein a vehicle wheel is disposed.

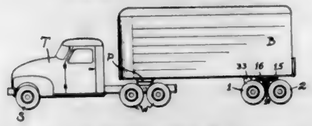
2,532,150
STEREOPHONIC SOUND RECORDING SYSTEM
Kornelis de Boer, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 8, 1946, Serial No. 660,323
In the Netherlands June 6, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 6, 1964
8 Claims. (Cl. 179—100.4)

1. The method of recording stereophonic sound oscillations in two tracks on a record carrier, which consists in microphonically detecting the sound at two spaced locations; generating separate response voltages over the entire frequency range of the sound as heard; segregating the high frequency band portion from the low frequency band portion of a first one of the response voltages and recording the high frequency band portion in one track on the record carrier; com-



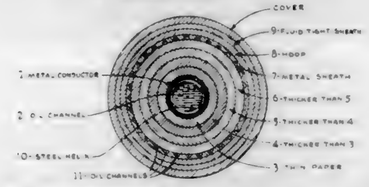
bining the low frequency band portion of said first response voltage with the entire second response voltage and recording the combined voltage effects in the second track on the carrier; and additionally recording in said first track an auxiliary voltage whose frequency range lies within the range of the low frequency band portion.

2,532,151
STEERING MECHANISM FOR TRAILERS
George F. Dibert and Edgar C. Holst, Spokane, Wash.
Application July 18, 1949, Serial No. 105,408
7 Claims. (Cl. 280—33.5)



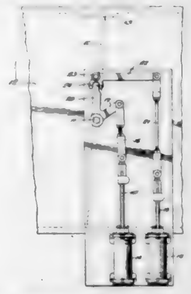
1. In fluid pressure operated steering mechanism for articulated motor-operated wheeled vehicles including a towing vehicle and a trailer, the combination with right turn and left turn running gear and servo-motors therefor, of means for locking the running gear in straight-away position a master valve selectively controlling the supply of motive fluid to said servo-motors and locking means, resilient means for securing the locking means, and resilient means within servo-motors for restoring the running gear to straight-away service.

2,532,152
THIN PAPER INSULATED ELECTRIC CABLE
Louis Domenach and Louis Macardier, Lyons, France, assignors to Compagnie Generale D'Electricite, Paris, France, a corporation of France
Application September 11, 1946, Serial No. 696,144
In France February 25, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 25, 1964
12 Claims. (Cl. 174—25)



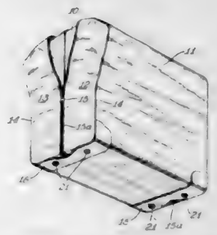
1. A high voltage electric cable comprising a conductor, an enclosing sheath, and a dielectric layer between said conductor and said sheath, said layer comprising wound narrow strips of thin paper and oil under heavy pressure, said paper being rag paper made with flax paste, and at least near said conductor including a substantial number of strips not exceeding 0.015 millimeter in thickness, and said pressure being substantially in the range of 10 to 20 kilograms per square centimeter.

2,532,153
CONTROL APPARATUS
Rowland B. Drescher and Alfred C. Wenzel, Chicago, Ill., assignors to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application March 1, 1945, Serial No. 580,422
10 Claims. (Cl. 137—139)



1. Control apparatus for a valve or the like comprising a first motor operatively connected to the valve to move it in response to movement of the motor, a second motor, means moved by the second motor operatively engageable with the valve only when it is near its closed position, control means for the motors, and supplemental control means for the second motor operated by the first motor when it is near its valve closing position.

2,532,154
LUGGAGE COVER
Morris Leonard Duskin, Evanston, Ill.
Application June 15, 1948, Serial No. 33,010
4 Claims. (Cl. 190—26)



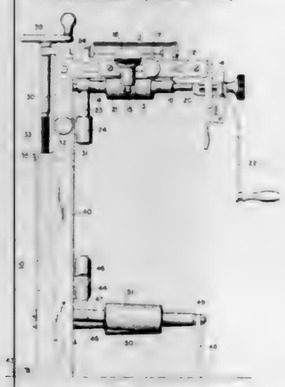
1. In a luggage cover a main panel having inwardly curved portions forming a recess at the central portion of each side thereof and having its ends positioned adjacent each other, pairs of end panels secured to the sides of the main panel, inner edges of each pair of said end panels being positioned adjacent each other, an integral curved extension on a terminal portion of each of said end panels, said curved extensions interfitting with the curved portions of the main panel, and slide fasteners for securing the adjacent edges of the end panels together, said slide

fasteners extending to the terminal portions of the end panels and into the recesses in the main panel.

2,532,155
THIXOTROPIC INVESTMENT MATERIAL
Elbert E. Ensign, Ypsilanti, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
No Drawing. Application October 7, 1947, Serial No. 778,469
4 Claims. (Cl. 22—188)

2. The process of preparing thixotropic investment molding material comprising mixing an aqueous solution containing a soluble acid and a soluble aluminum compound and a soluble compound chosen from the group consisting of sodium and potassium compounds with sufficient silica flour to give a molding material of the desired consistency and intensively agitating the mix.

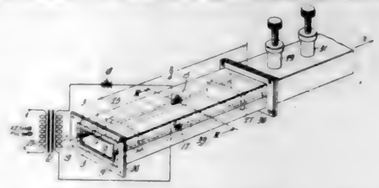
2,532,156
TIRE GROOVER
William F. Errig, Jenkintown, Pa., and Edward S. De Hart, Collingswood, N. J., assignors, by mesne assignments, to said Errig
Application March 18, 1948, Serial No. 15,634
7 Claims. (Cl. 82—1)



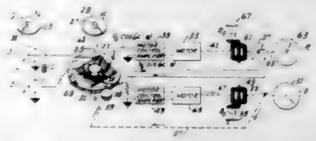
1. In a tire groove, a frame having members on one side thereof for engagement by the side of a tire casing, a vertically movable carriage extending from said side of said frame, shafts extending outwardly from said side of said frame, rollers carried by said shafts for supporting engagement with the periphery of a tire casing, the axis of each of said rollers being nonparallel and inclined at a slight angle with respect to the diametral plane of the tire casing for impelling the casing into engagement with said first mentioned members, a driving member for engagement with the tire casing, and a cutter member on said carriage for engagement with the periphery of the tire casing for forming a groove therein.

2,532,157
VARIABLE REACTIVE MICROWAVE DEVICE
John Evans, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1944, Serial No. 561,277
12 Claims. (Cl. 178—44)

1. In combination with a waveguide transmission system, a variable reactive device comprising a section of waveguide containing a pliant dielectric, particles of solid material mixed with said dielectric, means for establishing a field transversely of said waveguide section for orienting said particles, and means for selectively varying said field to vary the reactive properties of said device.



2,532,158
DATA TRANSLATION DEVICE FOR FLIGHT SIMULATION
Douglas H. Ewing, Chevy Chase, Md., assignor to Radio Corporation of America, a corporation of Delaware
Original application April 30, 1948, Serial No. 24,155. Divided and this application January 31, 1949, Serial No. 73,753
4 Claims. (Cl. 235—61)



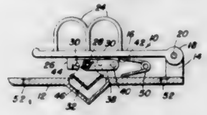
2. A flight simulator system including means providing a voltage corresponding in magnitude to the ground speed of an aircraft whose flight is to be simulated, means including two relatively movable parts for resolving said voltage into two components proportional respectively to the cosine and to the sine of the angle between said parts, means responsive to said first-mentioned component including a motor which runs at a speed proportional to said component and thus rotates through an angle proportional to the time integral of said component; means including a voltage divider driven by said motor for dividing said second component by an amount proportional to said time integral, means including a second motor which runs at a speed proportional to said divided second component and thus rotates through an angle equivalent to the time integral of said divided second component, and means coupling said last-mentioned motor to said resolving means to rotate one of said parts thereof with respect to the other.

2,532,159
ROADABLE AIRPLANE
Robert E. Fulton, Jr., Washington, D. C., assignor to Continental, Incorporated, Washington, D. C., a corporation of Connecticut
Application March 3, 1945, Serial No. 580,844
6 Claims. (Cl. 244—2)

1. In a roadable airplane including an airplane section and a separable automobile section, the airplane section including a fuselage and tail assembly and supporting wings and the automobile section including a power source, passenger compartment, controls and wheels for land travel, the improvement that comprises means for attaching the automobile section to the airplane section at at least three points, said attaching means including at least one horizontally disposed socket-shaped member on one of said sections and a complementary shaped member on the other of said sections so constructed and arranged to cooperate therewith to guide said sections into position and to position said sections laterally with respect to each other, said socket-shaped member including a recess with vertically disposed portions to receive a complementary

shaped member on the other of said sections so constructed and arranged to cooperate to guide said sections into position and to position said sections vertically with respect to each other and clamping means on one of said sections so constructed and arranged to draw said sections together and force said complementary shaped members into cooperating relation with said socket-shaped positioning members.

2,532,160
BUTTONHOLE CUTTER
Nora M. Gilliam, La Porte, Tex.
Application March 5, 1948, Serial No. 13,169
1 Claim. (Cl. 30—118)

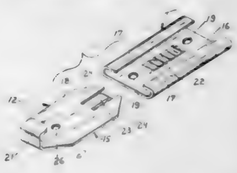


In a buttonhole cutter, the combination of a stationary base plate adapted to be secured to a support and formed intermediate the ends thereof with a slot, a V-shaped imperforate pocket provided on the underside of said plate in register with said slot, a pair of transversely spaced and upstanding ears at one end of the base plate, a depressible arm having one end portion thereof disposed between and pivoted to said ears, a web provided on the underside of said arm intermediate the ends of the latter, a pair of keeper pins projecting laterally from said web, a cutting blade removably positioned at one side of said web and formed with notches to receive said pins, a clamping screw provided on said web between said pins and extending through said blade to retain the same in position, said blade extending downwardly from said web and being receivable in said slot and in said pocket upon depression of said arm, a V-shaped cutting edge provided on said blade for coaction with the edges of said slot, and resilient means for urging said arm upwardly from said plate to withdraw said blade from said pocket.

2,532,161
WRIST WATCH HOLDER
Jacob Gomberg, Chicago, Ill.
Application December 4, 1944, Serial No. 566,547
4 Claims. (Cl. 224—4)

1. An article holder of the character disclosed and adapted to be attached to a wrist, arm, or the like, of a wearer and to carry an article having end portions provided with cross elements, such as a wrist watch, having pintles at each end thereof, comprising a unitary resilient band-like member having a body portion for the carrying of the article, limb portions extending integrally from the ends of said body portion and having free ends normally spaced from each other, struck-up, elongated, downwardly biased, resilient tongues integrally extending from said limb portions towards said body portion and having free ends provided with means extending over the end portions of said body portion for engaging with the pintles of the article when located on said body portion said downwardly biased tongues pressing the article against said body portion.

2,532,162
OBJECT SUPPORTING MEANS
James W. Goss, Warren, Ohio
Application January 9, 1948, Serial No. 1,429
3 Claims. (Cl. 248—30)

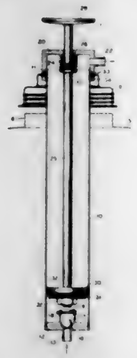


1. A device for supporting an object such as a mirror, picture, and the like, comprising: a first member, generally flat, and adapted to be secured flatwise to a support, said first member having opposite side margins turned over to form a pair of spaced grooves opening at at least one end margin of said first member; a second member, generally flat, and assembleable with said first member by inserting it within said grooves from said end margin, and being held to flatwise sliding action relative to said first member by guiding action of the surfaces defining said grooves, said second member having means for engaging said object; and detent means comprising a corrugated surface on the flat portion of said first member and a resilient tongue on the flat portion of said second member and adapted to selectively seat in any one of the troughs formed by said corrugated surface to thereby yieldably hold said first and second members in any one of a number of adjusted positions.

2,532,163
PUMP COMBINATION
Elwood R. Halpin, Rochester, N. Y.
Application July 16, 1948, Serial No. 39,050
1 Claim. (Cl. 222—383)

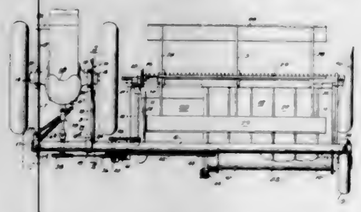
The combination with an apertured screw threaded cap for a standard fuel container, of a pump extending through the aperture in said cap, said pump comprising a cylinder externally threaded at one end and a head in the form of a cup internally threaded adjacent its rim to be screwed on said end, and means including an in-

ternally threaded collar screwed on said end for clamping the margin of said cap at said aperture



between said collar and the edge of the rim of said head.

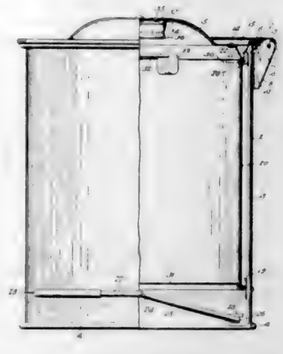
2,532,164
WINDROWER
Charles W. Hansen and Frank N. G. Kranick, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application May 13, 1946, Serial No. 669,393
10 Claims. (Cl. 56—23)



2. In a windrower which is adapted to be used with a tractor, a main frame which includes a horizontally disposed, main supporting bar, said bar being adapted to extend generally transversely of the line of draft of the associated tractor, a wheel, means for attaching said supporting bar to said wheel, a pair of supporting members, means for attaching each of the said supporting members to said bar at spaced-apart points for limited rotatable movement about a horizontally disposed, transversely extending axis, means for rigidly attaching one of said supporting members to the tractor, and means for pivotally connecting the other of said supporting members to the tractor.

2,532,165
CONTAINER FOR REFUSE
Louis Hermani, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 2, 1945, Serial No. 602,798
1 Claim. (Cl. 220—36)

A refuse container comprising an outer receptacle including a sheet metal body rolled outwardly at its upper end to form a continuous bead and rolled outwardly at its lower end to form a bead for supporting the body, a cover for said body, said cover being extended beyond said bead at the upper end of the body and having a gasket holding recess centered over said bead, a continuous unbroken gasket secured to the cover in said recess, said gasket being substantially flush with the inner face of said cover and adapted to engage the bead at the upper end of the body, a hinge bracket secured to the outer face of the body and projecting rearwardly therefrom, a hinge bracket connected to the outer face of the cover and projecting rearwardly therefrom, said hinge brackets having engaging ears and a pintle passing through said ears for pivotally supporting the cover on said body, said pintle being disposed in a plane defined by the upper portion of the body whereby the weight of the cover when closed will cause the gasket to sealingly contact with said bead at the upper

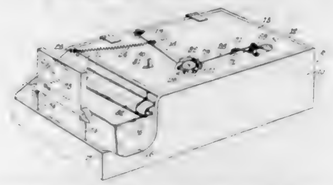


end of the body throughout the entire extent of the bead,. said body having spaced guiding brackets on the inner face thereof, a rod mounted for reciprocation in said brackets, a bracket mounted on the under face of said cover and disposed radially within the gasket adapted to be engaged by said rod for raising the cover, a shaft journaled in the body wall of the container adjacent the bottom end thereof and carrying an arm connected to the rod for lifting the same, a treadle located outside of the body and connected to the shaft for oscillating the shaft, and an inner receptacle disposed within the body of said outer receptacle.

2,532,166
ATTACHMENT OF KEY OPENER TO CAN ENDS OR LIKE CONTAINER PARTS
George C. Hook, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 11, 1946, Serial No. 653,568
8 Claims. (Cl. 220—52)

1. An article of manufacture comprising a metallic container part, an opener, and a composite structure elastically securing said opener to said container part; said composite structure comprising a film of plasticized rubber hydrochloride in adherent relation to the container part, and an elastically flexible body of rubber composition adherent to the said film and having a loop surrounding a part of the opener whereby to permit elastic movement of the opener relative to the container part.

2,532,167
SHOCK RESISTANCE DEMONSTRATOR
Harbert D. Hooker, Poplar Bluff, Mo.
Application December 8, 1949, Serial No. 131,763
9 Claims. (Cl. 35—49)

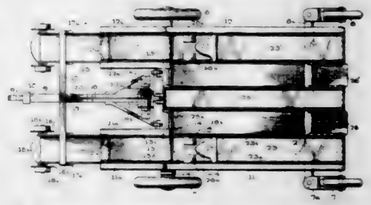


1. Apparatus for demonstrating the shock resistant properties of watches and similar articles, comprising a support, a back stop adjacent one end thereof, a catapult mounted on said support and carrying an article receptacle, means for alternately retracting and projecting said catapult and receptacle in line with said back stop, whereby an article in said receptacle is projected against said back stop, and means for automatically returning the projected article to said receptacle.

2,532,168
MINE ROOF AND TIMBERING JACK
Frank J. Jakoubek, Elmwood Park, Ill.
Application June 12, 1948, Serial No. 32,603
8 Claims. (Cl. 254—100)

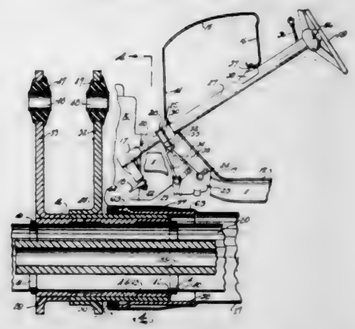
1. A mine roof and timbering jack embodying therein a standard member having at least a tubular upper end portion, a screw having a part disposed in said portion of said member, a nut member through which the screw extends and with which it has constant threaded engagement, one of said members having a radial flange thereon and against which the other of said members has a bearing engagement, said other of said members having at least one lug thereon formed to extend inwardly of and in confining relation to the flange on said one of said members, said flange having at least one recess therein for the passage of said lug through the flange when said lug and said recess are in register to permit of a relative longitudinal movement of said members for a quick adjustment of the nut member by turning the same on the screw in approximating the extended or the retracted condition of the jack for a particular jacking operation.

2,532,169
POTATO HARVESTING MACHINE
Vivian Duff Jones, Baltimore, Md.
Application December 20, 1945, Serial No. 636,162
5 Claims. (Cl. 55—51)



1. A harvesting machine comprising, in combination, a wheeled chassis, a pair of digging scoops mounted at the front of said chassis on opposite sides thereof, an elevating conveyor for each digging scoop mounted on said chassis independently of said scoop and positioned to receive the material discharged from the rear end of the associated scoop, a pair of horizontal conveyors mounted on opposite sides of said chassis and positioned to receive the material discharged from the rear ends of said elevating conveyors, a central conveyor located midway between said pair of horizontal conveyors, said pair of conveyors being spaced from said third conveyor to provide an operator space between the third conveyor and each conveyor of said pair of conveyors, and a pair of horizontal operator platforms mounted on said chassis in said operator spaces at opposite sides of said central conveyor.

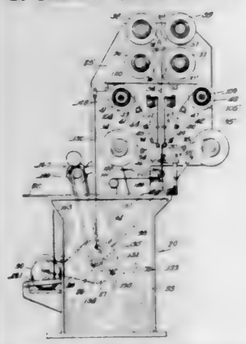
2,532,170
STEERING COLUMN GEARSHIFT CLUTCH CONSTRUCTION
Milton Jovanovich, Detroit, and John J. Wharam, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 19, 1945, Serial No. 623,247
12 Claims. (Cl. 74—484)



4. In a clutching mechanism for a steering column gearshift, in combination, a steering column, a concentric operating tube reciprocably and rotatably mounted exteriorly of the steering column, a pair of spaced circumferential indentations on said steering column adjacent the lower end thereof, retaining means in said indentations, a first sleeve slidable and rotatable upon said steering column and retained against longitudinal movement thereof by said retaining means, said first sleeve having a flange thereon,

a second sleeve slidably and rotatably mounted on said first sleeve and retained against longitudinal movement with respect to the tube between the flange on said first sleeve and one of said retaining means, T slots in each of said sleeves having their shanks aligned longitudinally of said steering column when said sleeves are in neutral position and having their heads oppositely disposed transversely of said steering column, and pin means carried on said tube aligned with said shanks when said tube is in neutral position and adapted to clutch said first sleeve for rotation therewith when in one position of reciprocation of said tube and to clutch said second sleeve to said tube for rotation therewith in another position of reciprocation of said tube, said second or first sleeve, respectively, then remaining in neutral position.

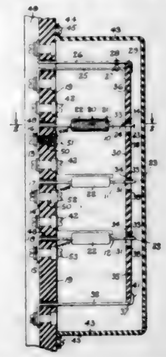
2,532,171
CAPACITOR WINDING MACHINE
Simon Kalm, Chicago, Ill., assignor to John E. Fast & Co., Chicago, Ill., a corporation of Illinois
Application May 27, 1948, Serial No. 29,466
10 Claims. (Cl. 242—56)



5. In a capacitor winding machine, a rotary winding mandrel, supporting structure for said mandrel whereby said mandrel is movable vertically between an upper and a lower limiting position, means for feeding downwardly to said mandrel a multiple strand consisting of dielectric strips interleaved with metal foil strips, said mandrel being operative in its upper position to grip said multiple strand and thereafter operative to return to its lower position, means for rotating said mandrel while the same continues to grip said multiple strand and during the downward movement of said mandrel, means operative to squeeze said multiple strand at a point above said mandrel, but normally ineffective so to do, and mechanism operative in response only to a portion of the downward movement of said supporting structure and simultaneously therewith to actuate the last-mentioned means, said last-mentioned means being effective, when actuated, to engender enough adherence between the foil and dielectric strips to cause the foil strips to move with the dielectric strips onto said mandrel.

2,532,172
ELECTRIC SWITCH GEAR
George Kilminster, Birmingham, England, assignor of one-half to Ega Electric Limited, Wednesbury, England
Application July 29, 1948, Serial No. 41,321
In Great Britain August 2, 1947
4 Claims. (Cl. 200—122)

3. In an electrical overload switch of the kind in which, for operating a pair of overload switch contacts, there is provided, a plurality of bi-metal strips having heating windings, and arranged substantially parallel to each other side by side spaced apart in line in the direction in which they are adapted to bend on the presence of a current in their heating windings; an overload switch contact operating bar common to all said bi-metal strips, said bar having for selective insertion between the bi-metal strips and the overload switch contacts at least two sets of longitudinally spaced abutments, each set in-

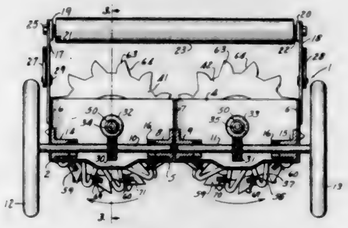


cluding one abutment for co-action with the overload switch contacts, and spaced from it by distances less than the normal separation between the bi-metal strips and the overload switch contacts, abutments for engagement by each strip establishing a lost motion connection between the former and the latter, the spacing between the abutment for engaging and operation the overload switch contacts and those for engagement by each strip being different in one set as compared with the other set to provide at least two overload settings.

2,532,173
MICROPHONE STAND
Fred S. Lewis, South Bend, Ind., assignor to Electro Voice, Incorporated, South Bend, Ind., a corporation of Indiana
Application May 4, 1945, Serial No. 591,966
5 Claims. (Cl. 248—161)

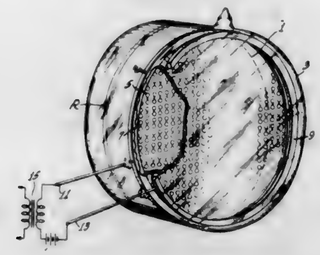
1. In a microphone stand, a tubular standard, a cylindrical extension slidable in said standard, a fitting on the end of said standard having an annular socket eccentrically arranged relative to said standard, and a locking member having a part rotatable in said fitting socket and having an eccentric bore receiving said extension said locking member being rotatable between a releasing position with said bore substantially concentric with said standard and a clamping position with said bore eccentric of said standard.

2,532,174
MOWER
Edgar M. Lieberman, Kansas City, Mo.
Application October 25, 1946, Serial No. 705,607
6 Claims. (Cl. 56—255)



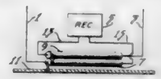
3. A mower of the character described comprising, a pair of wheels, a frame carried by said wheels, a circular cutter rotatably mounted on the frame and having its periphery provided with cutting teeth, said teeth having cutting edges on the leading side thereof, blade carrying means mounted above the cutter teeth, counter blades pivotally mounted on said blade carrying means and inclined downwardly therefrom toward the cutting edges of the teeth and at an acute angle to said cutter, means for holding the lower edge of the counter blades in engagement with the cutter, said counter blades having a cutting edge on the lower end thereof at an acute angle to the cutting edges of the teeth of the circular blade, the trailing portion of the lower edge of the blades being lower than the leading portion whereby the engagement of the cutting edges during rotation of the cutter will pivot the blades, and means for rotating the circular blade.

2,532,175
VISIBLE IMAGE RADIO RESPONSIVE DEVICE
Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1944, Serial No. 528,929
13 Claims. (Cl. 250—27.5)



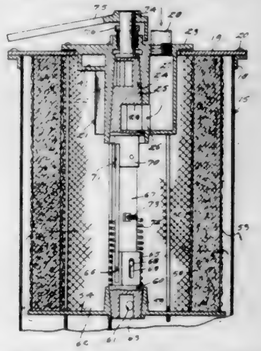
1. A radio frequency field responsive device including an envelope having a rarified gaseous medium therein and a mosaic located within said envelope, said mosaic comprising a plurality of aperture resonators each resonant to the frequency of said field and each having oppositely disposed boundary portions mutually more closely spaced than other portions thereof and providing discharge gaps.

2,532,176
ANTENNA SYSTEM
David G. C. Luck, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 21, 1945, Serial No. 636,531
6 Claims. (Cl. 250—33.53)



6. A U-type Adcock antenna system including a pair of horizontally spaced elements disposed above a conductive ground plane and responsive substantially only to vertical electric field components, a utilization circuit including two terminals, and two horizontal conductors each connecting one of said terminals respectively to one of said elements, each of said horizontal conductors including a shielded portion extending from said utilization circuit toward a respective one of said elements and an unshielded portion in series therewith and extending toward the other of said elements.

2,532,177
FILTER CONTROL VALVE
Otto A. Maunula, Palo Alto, Calif.
Application June 23, 1948, Serial No. 34,621
4 Claims. (Cl. 210—183)

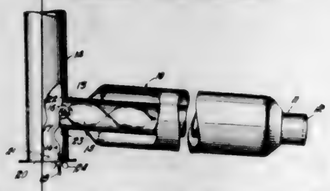


1. A filter comprising a cylindrical housing, a head secured to the upper end of said housing, a valve body dependingly carried by said head, said body having a central elongated valve seat, a multi-ported plug engaging said seat, said body having an inlet passage communicating with one of said plug ports and a return passage communicating with another of said plug ports, inlet conduit means connected to said body and communicating with said inlet passage, return conduit means connected to said body and communicating with said return passage, said body having a by-pass passage communicating said inlet passage with said return passage, a normally closed spring-pressed safety valve between said by-pass passage and said inlet passage, a cylindrical filter element in said housing about said body, a lower plate engaging and closing the lower end of said element, said body having an outlet chamber communicating with said one plug port, a pipe communicating said chamber with the space below said plate, an upwardly directed splash cup carried by said pipe below said plate, a drain valve plug carried by said plate, and means connecting said drain plug with said first named plug for operation thereby.

2,532,178
LUMINOUS SIGN
Walter C. Meyer, Warrenton, Mo., assignor to Missouri Jewelite Sign Company, St. Louis, Mo., a corporation of Missouri
Application April 29, 1948, Serial No. 23,920
3 Claims. (Cl. 40—130)

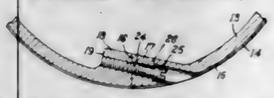
1. In a display sign containing a series of letters, a panel with the top edge shaped to conform with the top portions of the letters in the sign, the upper edge of the body of the panel terminating below the top of said letters, a series of colored illuminatable tube-like members bent to form the outline of the letters and mounted on said panel, a second series of tube-like members of a color contrasting with the color of the first series bent in a similar form and mounted on said panel in the same plane with, but offset from the first series of tube-like members, so as to give an illusion of depth to the letters when both series of tube-like members are illuminated, means for continuously illuminating the first series of tube-like members, and means for intermittently illuminating the second series of tube-like members.

2,532,179
VAPOR GENERATOR ASSEMBLY
Charles A. Miller, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 8, 1947, Serial No. 790,366
5 Claims. (Cl. 126—307)



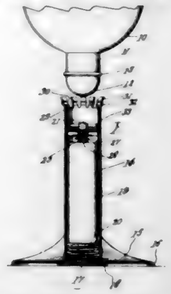
1. A generator assembly for supplying heat to a heat operated refrigeration system comprising a flue, a chimney connected to the flue, a flue baffle within the flue, a cleanout cap for closing off one end of the chimney, and a retainer wire attached at one of its ends to the flue baffle and at the other of its ends to the cleanout cap securely holding the flue baffle and the cleanout cap in their respective positions.

2,532,180
PISTON RING
Arleigh R. Moore, Canton, Ohio, assignor of one-half to Donald R. Minser, Hartville, Ohio
Application April 29, 1949, Serial No. 90,497
2 Claims. (Cl. 309—46)



1. A piston ring for use in a piston having a fixed groove therein, said piston ring being in the form of a complete circle having a transverse split therein providing two abutting ends of the ring, there being an angular bore through one end portion of the ring opening out through the periphery of the ring and an angular tapped bore through the other end portion of the ring and axially aligned with the first named bore, and a screw inserted through the periphery of the ring and located through said bores for clamping the abutting ends of the ring tightly together, whereby the ring may be positioned in the fixed groove of the piston and the ends of the ring clamped together from the exterior of the piston.

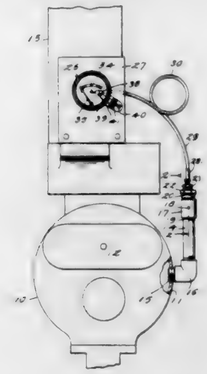
2,532,181
ILLUMINATED DRINKING GLASS
Milton E. Moore, New Orleans, La.
Application October 23, 1947, Serial No. 781,625
1 Claim. (Cl. 240—6.4)



An illuminated drinking glass consisting of a first and second body members, said first body member comprising a base, a hollow stem carried normal to said base, a battery therein, upper and lower springs in said stem at opposite ends of said battery for floatingly carrying said battery, a lamp and reflector unit in said stem above said battery and being separated therefrom by said upper spring, said stem being crimped at its upper portion to prohibit the withdrawal of said lamp and unit from the upper end, a disc like cover pivoted to the base of said stem to permit the introduction of said battery into said stem, an annular clip carried by the upper end of said stem and having an outwardly flaring mouth and receptacle socket, said second body member comprising a glass bowl having a projection extending from the outer base thereof and terminating in a semi-spherical head, and an annular head and being receivable within the socket of said outwardly flaring mouth whereby upon insertion therein said spherical head will contact said lamp and reflector unit and upon the seating of the annular bead in said receptacle socket the lamp will contact the battery completing the circuit and lighting the same.

2,532,182
SAFETY SWITCH FOR ENGINE COOLING SYSTEMS
Frank W. Murphy, Tulsa, Okla.
Application October 11, 1948, Serial No. 53,943
3 Claims. (Cl. 123—41.15)

3. In combination with an internal combustion engine including a closed vapor cooling system having a liquid coolant receiving jacket disposed about the cylinders thereof, and a condensing radiator for condensing the coolant vapors and returning the condensed vapors to said jacket, and an ignition circuit for said engine including a grounded magneto; safety means comprising a vertically disposed riser spaced from said jacket, coupling means communicating the lower end of said riser with said jacket substantially below the normal liquid coolant level therein whereby said liquid coolant will normally seek said level in said riser, a thermally responsive bulb positioned in the upper end of said riser and normally submerged in said liquid coolant, a vent opening in said riser above the normal liquid coolant level therein, normally open switch means interposed in an electrical conductor extending from said ignition circuit to ground and adapted to be actuated to closed position by said thermally responsive bulb, and

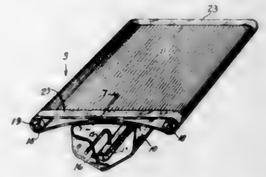


means operatively connecting said bulb and said switch means whereby the liquid coolant in said riser will normally have a temperature lower than that of the liquid coolant in said jacket, and failure of said condenser to condense the coolant vapors at the rate at which the vapor is formed will effect an increase of pressure within the vapor cooling system causing a flow of the heated liquid coolant in the jacket into said riser thereby subjecting said temperature responsive bulb to increased temperatures for closing said switch means to thereby ground said ignition circuit and stop the engine.

2,532,183
TREATMENT OF CELLULOSIC TEXTILE MATERIAL TO INCREASE ITS WATER ABSORBENCY
David M. Musser, East Orange, N. J., assignor to Pacific Mills, Boston, Mass., a corporation of Massachusetts
No Drawing. Application August 18, 1948, Serial No. 44,986
3 Claims. (Cl. 8—138)

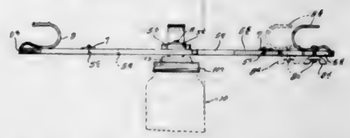
1. A method for enhancing the rate of water absorbency of cellulose textile material without weakening the material, which comprises immersing the cellulose textile material in an alkaline aqueous solution containing sufficient alkali metal hydroxide to bring the pH of the solution into the range 11 to 13, and an amount between 0.1% and 5% by weight of the textile material of an alkyl phosphate in which the alkyl group contains more than 3 and less than 6 carbon atoms, and maintaining the textile material in said solution under from 5 to 25 pounds pressure and at a temperature above the boiling point of water for from 2 to 14 hours.

2,532,184
CONVEYER BELT FOR PHOTOGRAPHIC PRINTING MACHINES
Ernest Nassimbene, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application November 10, 1948, Serial No. 59,258
7 Claims. (Cl. 95—94)



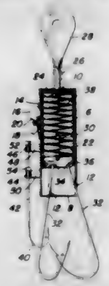
1. In a printing machine of the type having a vapor containing tank with imperforate marginal portions on the ends of a wall thereof and a perforate portion therebetween, and rolls at opposite sides of the tank, the improvement which comprises; an endless paper conveyor belt adapted to be trained about the rolls and over the wall, the belt being of imperforate rubber-like material having substantially parallel faces, the inner face being flat and adapted to engage the rolls, the outer face being adapted to engage the wall, the outer face having a plurality of grooves therein forming ribs between the grooves, the ribs and grooves being transversely disposed to the edges of the belt, the grooves terminating inwardly of the belt edges providing margins of uniform thickness adjacent the edges of the belt, the belt being so proportioned to the wall that the grooves and ribs are substantially coextensive in length with the width of the perforate portion and the margins of the belt are adapted to overlie and contact the imperforate marginal portions of the tank to effect a gas seal thereat, the top surfaces of the ribs and the tank engaging surfaces of the margins lying substantially in the same plane, whereby the ribs may contact and convey a piece of paper over the perforate portion of the wall, the ribs and marginal portions on the outer face being constructed of synthetic rubber.

2,532,185
SKEIN HOLDER FOR YARN OR THE LIKE
Mildred W. Nicholas, Denver, Colo.
Application October 16, 1948, Serial No. 54,913
1 Claim. (Cl. 242—127)



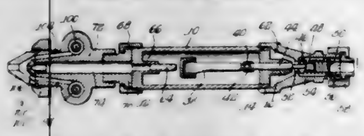
A skein holder of the kind described, comprising a supporting base, a flat frame rotatably mounted at its center upon the base and including a number of elongated flat slats crossed and joined centrally and flatly upon one another, skein engaging hooks mounted upon the outer ends of the slats, said slats being parted transversely and medially and hinged together at their partings to fold inwardly upon themselves, the inner ends of the slats being slotted for receiving said hooks as the outer ends of the slats are folded down inwardly.

2,532,186
FISH TRAP WITH EXPANDIBLE HOOKS
Mildred Ann Nolan, Coral Gables, Fla.
Application October 24, 1949, Serial No. 123,140
4 Claims. (Cl. 43—89)



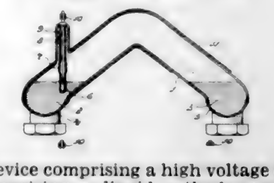
1. A trap hook construction of the class described, comprising an outer cylinder, an inner cylinder telescopically slidable in said outer cylinder, means between the two cylinders to prevent relative rotation of same, a spring held and turned latch pivotally mounted on said outer cylinder and releasably engageable with the inner cylinder, a pull actuated bait hook slidably mounted on said outer cylinder and having trip means releasably engageable with said latch, and snaring hooks pivotally mounted on and carried by said inner cylinder, line attaching means carried by said inner cylinder, and a coiled spring in said inner cylinder for moving the latter in a predetermined manner and direction in respect to the outer cylinder.

2,532,187
MULTIPLE FLUID AIRBRUSH
Jens A. Paasche, Chicago, Ill.
Application January 12, 1945, Serial No. 572,516
1 Claim. (Cl. 299—140)



A removable nozzle assembly for use with an air brush of the type having a valve controlled passage therethrough for a propelling fluid; and comprising an elongated head member adapted to be secured to the air brush and having a longitudinal fluid passage therethrough adapted for communication with the fluid passage in the air brush, said head member having parallel bores therethrough disposed on opposite sides of said fluid passage and extending transversely thereof and each adapted for connection to a material supply line, said transverse bores having valve seats intermediate the ends thereof and said head member also having material passages each communicating with one of said bores and extending forwardly through said head member on opposite sides of said fluid passage and opening at the front end of said head member, separate valve members, one for each of said transverse bores cooperating with the seat therein for selective and permissive differential control of the passage of material through said bores to said material passages, an internal nozzle member detachably mounted at the forward end of said head member in communication with the longitudinal fluid passage therethrough and with the outer inwardly convergent surface thereof disposed inwardly between the outlet ends of said material passages, and an external nozzle detachably mounted at the forward end of said head member exteriorly of the said material passages and having the inner wall surface thereof sharply converging inwardly in advance of the adjacent surface of said internal nozzle to provide therebetween a confined mixing chamber with the inner wall surface of said external nozzle serving to sharply direct the material from the outlet ends of said material passages inwardly into said mixing chamber whereby the materials are mixed therein before being propelled through the second nozzle by the fluid under pressure issuing from said longitudinal fluid passage.

2,532,188
ION DISCHARGE TUBE FOR HIGH VOLTAGES
Frans Michel Penning and Jozef Hubert August Moubis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 16, 1946, Serial No. 684,082
In the Netherlands July 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 15, 1963
7 Claims. (Cl. 250—27.5)



1. A device comprising a high voltage discharge tube comprising a liquid cathode, an envelope having a wall portion of insulating material surrounding said liquid cathode, an ignition electrode to initiate a discharge from said cathode, and a layer of conductive material outside said insulating wall portion surrounding said liquid cathode, said conductive layer being directly connected to said cathode.

2,532,189
ACCELERATOR PEDAL
Charles P. Pinardi, Dearborn, and Douglas L. Poole, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 25, 1946, Serial No. 705,714
3 Claims. (Cl. 74—513)

3. An accelerator pedal of the type mounted adjacent the toeboard of a motor vehicle for controlling the carburetor, said toeboard being provided with an opening therethrough, comprising, in combination a supporting bracket mounted upon said toeboard, an actuating lever pivotally connected to said supporting bracket and having a portion extending downwardly through the opening in said toeboard for connection to said carburetor to control the latter and a portion extending upwardly from said toeboard and having

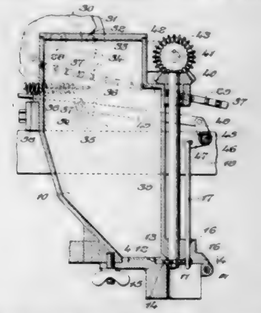
a laterally extending flange, a metal pedal plate supported upon said flange and having a pair of longitudinally spaced openings therein, a generally U-shaped spring clip having an upper leg seated upon the upper surface of said pedal plate and a pair of downwardly depending end flanges extending through the spaced openings in said pedal plate, said flanges being resilient and yieldably engageable with spaced portions of the above-mentioned laterally extending flange of said actuating lever to detachably secure said pedal plate to said lever, said pedal plate and said U-shaped spring clip being completely embedded in a rubber covering with the exception of the resilient end flanges of the clip which project downwardly through said rubber covering.

2,532,190
REFRACTORY BRICK, BLOCKS, OR LIKE ELEMENTS
Marcello Pirani, Kingston Hill, and Alfred Hilliard, London, England, assignors to C. U. R. A. Patents Limited, London, England
Application February 20, 1948, Serial No. 9,938
In Great Britain March 2, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 2, 1965
9 Claims. (Cl. 72—35)

1. A refractory element having an outer facing of one refractory material located upon an inner body portion of a different refractory material, wherein the body portion has an elevation on its outer surface, the facing is formed of separate sections comprising two lateral sections located one on each of the opposite sides of and extending outwardly beyond the said elevation and an intermediate section located upon the said elevation and fitting loosely in the space between the lateral sections, means to secure each lateral section against movement outwards from the body portion is provided consisting of at least one key fitting loosely within opposed recesses formed in the side of the said elevation and in the opposing side of the lateral section, and the sides of the lateral sections extending outwardly beyond the sides of the said elevation converge towards one another to form an outwardly narrowing space between them whereby the intermediate section is secured against movement outwards from the body portion.

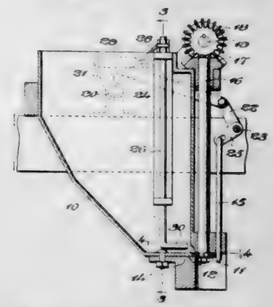
2,532,191
SEED PLANTING MACHINE
John Powell, Kokomo, Ind.
Application July 8, 1947, Serial No. 759,656
1 Claim. (Cl. 111—37)

A seed planting machine comprising a seed hopper, a rotatable member having seed accommodating pockets therein and mounted so that by rotation thereof said pockets receive seeds from said hopper and transfer them to a seed dropping position, a plunger for ejecting seeds from said pockets when the latter are in said seed dropping position, wheels supporting said machine, a slip clutch driven continuously by said wheels during advance of the machine, a clutch shaft, said clutch including a disk fixed to said clutch shaft so that when said disk is held against rotation said clutch shaft is held against rotation and so that when said disk is released said clutch shaft is rotatable with said clutch, said disk having therein a peripheral recess, a rock shaft, an arm fixed to said rock shaft, an element on said arm, yieldable means tending constantly to swing said arm in a direction to urge said element against the periphery of said disk so that when the recess in said disk registers with said element the latter is caused to enter said recess to hold said disk and said clutch shaft against rotation and said rock shaft is rocked in one direction, means operable during advance of the machine to periodically swing said arm to



withdraw said element from said recess and to rock said rock shaft in the opposite direction so that said clutch shaft is rotatable intermittently, a driving connection between said clutch shaft and said rotatable member whereby the latter is rotated intermittently during advance of the machine to bring said pockets successively to the seed dropping position, and a connection between said rock shaft and said plunger whereby the latter is projected to eject seeds from a pocket when the element on said arm enters said recess and is retracted when said arm is swung to withdraw said element from the recess in said disk.

2,532,192
SEED PLANTING MACHINE
John Powell, Kokomo, Ind.
Application October 18, 1948, Serial No. 55,123
5 Claims. (Cl. 222—217)



1. A seed dropping mechanism comprising a seed hopper, a rotatable horizontally disposed disc having one marginal portion thereof extending into the bottom part of said hopper and another marginal portion thereof overlying a free space through which seeds may gravitate to the soil, said disc having in the marginal portion thereof seed accommodating pockets, means to rotate said disc intermittently to bring one pocket

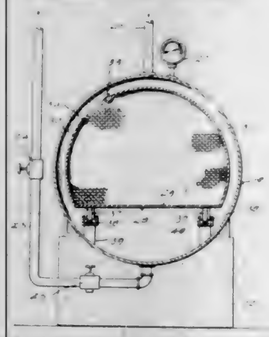
therein to a position to receive seeds from said hopper and simultaneously to bring another pocket therein into overlying relationship to said space, means operable to eject seeds from each pocket when the latter is brought into overlying relationship to said space, an oscillatory arm in the hopper having an amount of oscillation to disturb the seeds therein only adjacent to the marginal portion of said disc which extends into said hopper to cause seeds to gravitate from the hopper into each pocket when the latter is moved to a position to receive seeds from said hopper, and means for oscillating said arm.

2,532,193

PROCESS FOR IMPREGNATING WOOD WITH SODIUM THIOSULFATE

Raymond G. Ramsey, Driver, Va., assignor to American Package Corporation, Portsmouth, Va.

Application July 21, 1947, Serial No. 762,365
1 Claim. (Cl. 117—147)



A method of treating wood to prevent splitting and cracking which comprises placing a layer of wood in a receptacle, covering said layer of wood with crystalline sodium thiosulphate, concentrating additional sodium thiosulphate adjacent the ends of the layer, adding a second layer of wood and repeating the process and subjecting the stacked layers of wood and sodium thiosulphate to dry steam between 290° F. and 375° F. at a pressure between 60 and 150 lbs. per sq. in. for a period of time between 15 and 20 minutes.

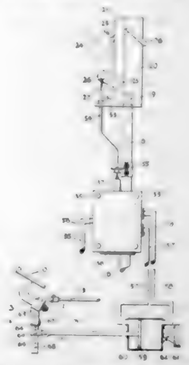
2,532,194

VACUUM-ACTUATED CLUTCH AND/OR BRAKE CONTROL

Thomas M. Robertson, New York, N. Y.

Application April 17, 1946, Serial No. 662,898
7 Claims. (Cl. 192—3.5)

1. An attachment for a vehicle including a gas engine and having a gear shift lever and a pedal-operative control device such as a brake or clutch, the combination of a handle of said gear shift lever, a finger-operative lever pivoted to said handle, a booster device including a spring-biased valve, means to connect said valve to the suction manifold of said gas engine and a member reciprocatable by vacuum under the control of said valve, said spring tending to hold said valve in a position in which said member is shifted in one direction, said finger lever being connected to said valve so as to shift the latter against the restraint of said spring in another position when the finger lever is operated whereby said member will be moved in the other direction, a first element adapted to be rigidly attached to said pedal, a second element, a pivot about which one of said elements is turnable in relation to the other, an abutment on one of said elements for engagement by the other to prevent turning of the one element relatively to the other in one direction, and a



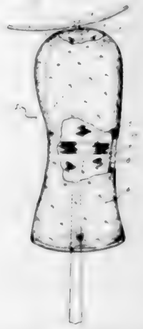
link attached to said second element for pivoted attachment of said member, whereby said pedal will be depressed when said member is moved in said other direction and will be free to be depressed by an operator's foot without reaction on said booster device.

2,532,195

GOLF CLUB COVER

Monroe H. Rosenow and William E. Schwalbe, Milwaukee, Wis.

Application December 8, 1948, Serial No. 64,072
2 Claims. (Cl. 150—1.5)



1. A readily removable cover for the head of a golf club, comprising: connected inner and outer bag-like elements, said elements having a continuous seam along the closed end and opposite sides thereof; a strip of elastic extending across said cover from one side seam to the other between the inner and outer elements thereof and substantially medially of the ends of the cover; and means anchoring the opposite ends of said strip to one of said elements with the strip stretched between said side seams so as to pull the sides of the cover inwardly toward one another at a distance from the open end of the cover whereby application of the cover onto and intentional removal thereof from the head of a club is facilitated without sacrificing assurance against accidental displacement of the cover from the club.

2,532,196

FLOOR OR WALL COVERING AND METHOD OF MAKING THE SAME

William Rowe, Lewiston, Maine, assignor to Bonafide Mills, Inc., Lisbon, Maine, a corporation of Maine

Application February 17, 1948, Serial No. 8,843
7 Claims. (Cl. 117—167)

1. A coated sheet comprising a base sheet covered with a coating composition comprising the blended product resulting from heating at a temperature not exceeding 300° F. a drying oil pitch and a viscous petroleum polymer having a molecular weight between 200 and 600 and consisting principally of polymerized olifinic hydrocarbons characterized by a high degree of unsaturation, and an iodine number of between 80 and 200 and being substantially non-acid and non-saponifiable, said blended product being substantially free from vulcanizing agents and being capable of curing with more rapidity than the drying pitch, and being highly resistant to moisture, acids, alkalies and mineral oils.

2,532,197

THERMOPLASTIC COMPOSITION

William Rowe, Lewiston, Maine, assignor to Bonafide Mills, Inc., Lisbon, Maine, a corporation of Maine

No Drawing. Application February 17, 1948, Serial No. 9,011
3 Claims. (Cl. 106—281)

1. A thermoplastic composition comprising the blended product resulting from heating at a moderately elevated temperature not exceeding 300° F. a drying oil pitch and a viscous petroleum polymer in the ratio of polymer to pitch of from 10 to 50%, said petroleum polymer having a molecular weight between 200 and 600 and consisting principally of polymerized olefinic hydrocarbons characterized by a high degree of unsaturation, an iodine number of between 80 and 200 and being substantially non-acid and non-saponifiable, said blended product being substantially free from vulcanizing agents and being capable of curing with more rapidity than the drying pitch, and being highly resistant to moisture, acids, alkalies and mineral oils.

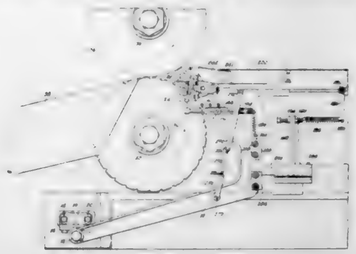
2,532,198

FISH FILLETING MACHINE

Charles M. Savrda, Bay Shore, N. Y., assignor, by mesne assignments, to Fish Machinery Corporation, Boston, Mass., a corporation of Delaware

Application November 16, 1946, Serial No. 710,352
16 Claims. (Cl. 17—4)

1. In a fish filleting machine having a pair of spaced rotatably mounted circular knives adapted to make, in a fish fed thereto tail leading and back downward, a pair of spaced incisions extending upwardly from the back, commencing adjacent the tail and progressing forwardly of the fish, together with fish feeding means for advancing a fish tail leading and back downward to said knives; in combination, mechanism for presenting said fish to said knives as they advance in such manner as to direct their tail feathers between vertical planes passing through the leading cutting edges of said knives, comprising a tail elevator trough, means for pivotally mounting said trough on said machine in alignment with said fish feeding means for movement about a horizontal axis disposed transversely of said machine, said elevator trough being mounted to assume a normally inclined position projecting into the path of a fish advancing through said fish feeding means, said elevator trough being of a length less than the length of the smallest fish to be filleted on said machine, whereby the leading tail portion of a fish as it advances into said elevator trough is urged into elevated angular relation with respect to the trailing portion of the fish, tail guides mounted on said machine along the path of fish advance, one on either side thereof between said elevator trough and said knives, and means including said pivot means balancing said elevator trough so that as a leading tail portion of a fish advances beyond said elevator trough and between said tail guides pressure of the trailing portion of the fish on said trough will tilt the same and said leading tail portion will advance into the space between said tail guides with a component of downward motion.

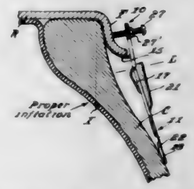


2,532,199

TIRE DEFLATION INDICATOR

Paul Siever, Minneapolis, Minn., assignor to Tire-Larm Co., Minneapolis, Minn., a corporation of Minnesota

Application February 4, 1950, Serial No. 142,439
10 Claims. (Cl. 116—34)



10. In a device of the class described, an elongated sound-producing tongue formed of a strip of resilient material and having a dimpled area between the ends thereof, a tongue end portion reenforcing and stiffening member mounted on and extending inwardly from each of the opposite ends of said tongue to adjacent points thereon on which intersect the dimpled area thereof, whereby to provide between said points a transverse bending zone which is confined to and extends through the bulged area of the dimple, one of said reenforcing members having a wheel rim mounting portion, and an adjusting means carried by said one end and cooperating with the rim flange to position the opposite reinforced end of the tongue into engagement with a side wall of an inflated tire for operation thereby without initial tensioning of the tongue by said adjusting means.

2,532,200
ORTHODONTAL INSTRUMENT
Barton E. Smith, Massillon, Ohio
Application August 6, 1948, Serial No. 42,888
1 Claim. (Cl. 32—66)

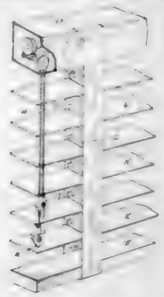
In combination, an orthodontal ligature tying instrument for connecting an edgewise arch to a band bracket secured on an irregular tooth, and a loop forming die, said ligature tying instrument including a head at one end having a pair of side-by-side holes extending through the front of the head and opening out through the side thereof, an anchor element on said instrument for attaching the ends of a loop of ligature wire formed in front of said head and threaded through said holes, and said loop forming die including a mandrel for fitting within said loop and a movable die element for engaging the sides of the loop and bending them downwardly.

2,532,201
PROTECTIVELY COATED ALKALI CONTAINING SOLIDS AND METHOD OF COATING SAME
Owen F. Sprague, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
No Drawing. Application August 13, 1946, Serial No. 690,341
8 Claims. (Cl. 117—100)

3. The process for forming a protective coating on a solid surface consisting essentially of a caustic of a metal of the group consisting of sodium and potassium which includes the steps of applying an aromatic aldehyde having the aldehyde group attached directly to the aromatic nucleus which undergoes the Cannizzaro reaction and which is selected from the group consisting of benzaldehyde, hydrocarbon substituted benzaldehydes, chlorobenzaldehydes and nitrogen substituted benzaldehydes, to the surface in sufficient amount to react with the superficial caustic of the surface and removing unreacted material.

2,532,202
VENETIAN BLIND CORD PULL
Joseph W. Steinbachner, Chicago, Ill.
Application June 24, 1946, Serial No. 678,993
6 Claims. (Cl. 160—173)

1. A pull for a Venetian-blind hanging cord controlling the transverse slope of the slats of the blind to be manipulated by the cord, said pull having the general form of a tapered direction-indicating arrow-head equipped with a longitudinal central stem, said arrow-head having an externally accessible cavity, the pull having a longitudinal passage extended through said head and stem and intersecting said cavity and of a caliber to receive the lower terminal portion of said cord, whereby said portion of the cord may be inserted in the pull passage through either end of said passage into said cavity, its then accessible end knotted, and said knot occupying said cavity and supporting the pull on the cord.

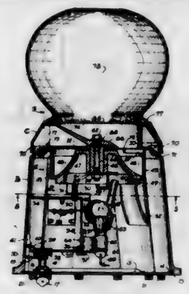


2,532,203
AUTOMOBILE BODY CONSTRUCTION
Thomas W. Stephenson, Detroit, and Charles W. Bugbee, Royal Oak, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application November 6, 1947, Serial No. 784,448
4 Claims. (Cl. 296—28)

1. In a vehicle body, in combination, front and rear doors on one side of said body, a generally vertical door pillar rigidly mounted on said body between said front and rear doors, one of said doors being hinged to said door pillar for pivotal movement about a vertical axis located intermediate the inboard and outboard sides of said last-mentioned door, said door having a marginal flange overlapping said door pillar and projecting longitudinally beyond the pivotal axis of said door, said door pillar being generally rectangular in cross section with its outboard side being offset inwardly adjacent said last-mentioned door to provide clearance for the inward swinging of the adjacent edge of said door as it is opened, the offset in said door pillar forming a shoulder at the side of said door pillar substantially midway between the inboard and outboard edges thereof, and a weather strip carried by the door hinged to said pillar, said weatherstrip being secured to said door substantially midway between its inboard and outboard sides and arranged to continuously engage said shoulder in the closed position of said door.

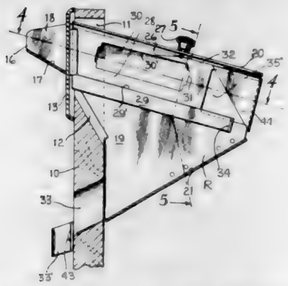
2,532,204
HOT MATERIAL VENDING MACHINE
Orman C. Stover, Waterloo, Iowa
Application September 3, 1947, Serial No. 771,842
17 Claims. (Cl. 194—1)

5. A hot nut vending machine, comprising a hollow base, a material-containing transparent jar at the top of the base, a movable member within the base having a plurality of compartments, hopper means to feed material from the jar into each of the compartments, the bottom of the hopper being spaced except at the compartment feeding place from the movable compartment member, coin controlled means for rotating the member, a discharge chute extending from the member through the base, a sight opening in the base, an electric lamp and a heating element having a common connector in the base, the element heating the movable member, means comprising heat insulating blocks for separating



and insulating the movable compartment member in the base from the hopper means and any material therein so that only the material in the compartments is heated substantially by the heating element, and the lamp being visible through the sight opening to direct attention to the machine and to indicate that the heating element is in operation.

2,532,205
COIN SELECTOR
William J. Summers, Chicago, Ill., assignor, by mesne assignments, to Royal Patent Corporation, Chicago, Ill., a corporation of Illinois
Application July 23, 1949, Serial No. 106,353
2 Claims. (Cl. 194—102)

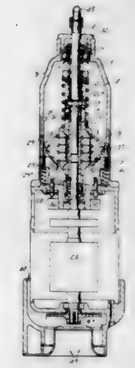


1. A coin selector of the class described comprising an enclosure having means for connection to a stationary support in a laterally tilted position with respect to a vertical plane and having therein a downwardly inclined coin receiving pathway tilted laterally with respect to said vertical plane, a rejection pathway having connection and reversely inclined with respect to the receiving pathway and likewise tilted laterally with respect to said vertical plane and a coin acceptance pathway having connection with said receiving pathway at the point of connection between said receiving pathway and said rejection pathway and reversely inclined with respect to said receiving pathway and extending parallel with the rejection pathway, deflecting means at said point of connection for deflecting acceptable coins into said acceptance pathway from said receiving pathway, a side wall of said enclosure providing an elongated substantially offset recess communicating with said pathway and extending substantially parallel to and at one side of said receiving pathway and providing at one end thereof an abutment, a track secured to said wall below said recess and on which acceptable coins gravitate through said receiving pathway into said acceptance pathway, the distance between said track and the top longitudinal edge portion of the recess being greater than the diameter of a non-acceptable coin to permit said non-acceptable coin to tilt by gravity into said recess for gravitation upon said track into striking engagement with said abutment for deflecting said non-acceptable coin into said rejection pathway.

2,532,206
OINTMENT BASE OF GLYCERINE WITH PHOSPHATIDE AND PETROLATUM
Abraham Taub and Morris Mattikow, New York, N. Y., assignors to Vodol Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 1, 1946, Serial No. 680,844
2 Claims. (Cl. 167—63)

1. As an ointment base, a semi-solid mixture containing between approximately 50% to 87.5% by weight glycerine, and between approximately 50% to 12.5% of a phosphatide and petrolatum mixture in which said phosphatides are between approximately 1% to 20% of the petrolatum.

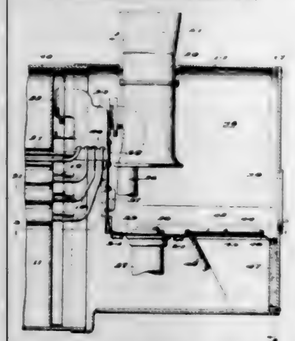
2,532,207
AUTOMATIC FEED HEAD
George Treglown and Claude E. Broders, Detroit, Mich., assignors, by mesne assignments, to Govro-Nelson Company, Detroit, Mich., a corporation of Michigan
Application June 6, 1945, Serial No. 597,837
11 Claims. (Cl. 10—139)



1. An automatic feed head comprising an axially movable rotatable tool spindle, a power driven quill for rotating said spindle, weight members actuated by said power driven quill to generate centrifugal forces upon rotation of said quill, a fixed member fixed on said quill against relative movement with respect thereto and positioned adjacent one end of said weight members, an axially movable member mounted on said quill and connected with said spindle and a spacer disc carried on said quill and disposed between said fixed member and said axially movable member and having a plurality of symmetrically disposed radially extending arcuate weight carrying slotways each open at the periphery of said disc and each having a closed end adjacent the center of

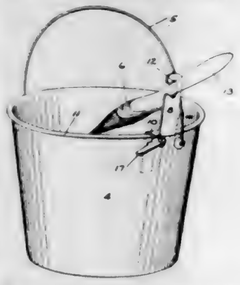
said disc, one of said weight members being disposed in and movable within each of the slotways of said disc.

2,532,208
LOCOMOTIVE DRAFT CHAMBER
Joseph G. Vallely, Du Bois, Pa.
Application September 4, 1946, Serial No. 694,789
3 Claims. (Cl. 105—37)



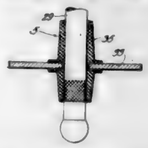
1. A locomotive front end structure comprising, a housing forming a continuation of the locomotive boiler shell, a disc-shaped member closing the end of said housing, a door in said disc-shaped member, a smoke stack extending upwardly through the housing, an exhaust nozzle positioned below the smoke stack in vertical alignment therewith, a substantially horizontal table plate surrounding the exhaust nozzle and extending across said housing and positioned below the lower edge of said door opening, said table plate having openings therein, a spark arrester forwardly of the table plate and extending across the housing in a substantially horizontal position, means insulating said disc member below said spark arrester, and a header plate arranged forwardly of the boiler tubes, and said header plate having openings therein covered with netting to permit the escape of gases therethrough.

2,532,209
CLAMP PAINTBRUSH HOLDER
Betty O. Wallace, San Francisco, Calif.
Application September 19, 1949, Serial No. 116,431
1 Claim. (Cl. 248—113)



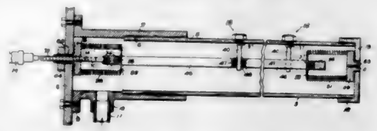
A device for positioning a paint brush above a paint container embodying in its construction an upper portion having a side opening therein for retaining the handle of the brush, an intermediate portion adapted to rest on the upper rim of the container, a pintle depending from said intermediate portion and exteriorly of the container, a clamping member pivotally secured to said pintle and being positioned in parallelism to said intermediate portion, said clamping member comprising a handle at one end thereof and a cam at the opposite end thereof to provide an internal and external locking action of said device on the container.

2,532,210
PACKING GLAND
Henry G. Wasserlein, Park Ridge, Ill., assignor to Phillips Control Corporation, Chicago, Ill., a corporation of Illinois
Application April 12, 1946, Serial No. 661,813
1 Claim. (Cl. 286—29)



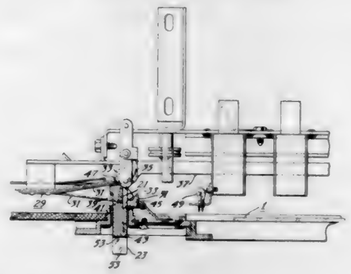
A packing gland for use in transmitting movement through the wall of a fluid tight wall such as a valve casing which comprises a disc having substantial rigidity, an aperture in the disc, the edges of the aperture having rounded edges, a lever extending through the aperture and resiliently bonded and sealed to the disc by a rubber sleeve filling the space in the aperture around the lever and overlapping and adhering to the adjacent surfaces of the disc and the lever on both sides of the aperture, the relative sizes of the lever and the aperture being such that the edges of the aperture serve as a fulcrum upon lateral movement of the ends of the lever and the bond having such resilience that such movement of the lever does not break the seal.

2,532,211
SPRAY APPARATUS WITH OSCILLATORY DISCHARGE MEANS
Joe N. Welch, Walpole, Mass.
Application November 15, 1946, Serial No. 710,140
3 Claims. (Cl. 299—62)



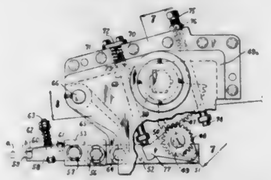
1. A shower assembly unit comprising a cylindrical tube closed at the ends and adapted for support at one of them, a fluid inlet to the tube, the cylindrical wall of the tube having a plurality of longitudinally spaced mounting apertures, a like number of spray nozzles installed at the respective apertures, each nozzle comprising a tubular chambered body with centrally open inner and outer ends, a ball discharge member movably held and guided in the body chamber and an operating finger projecting from the ball member and through the inner end of the nozzle body, a connector for the several fingers longitudinally disposed in the tube, opposed bellows subject to fluid pressure in the tube and supporting the connector for pressure-balanced oscillation thereof lengthwise of the tube, and oscillatory actuator means operatively associated with the connector.

2,532,212
SELECTIVELY ILLUMINATED PUSH BUTTONS FOR RADIO RECEIVER TUNERS
James L. Whittaker, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 30, 1946, Serial No. 644,200
5 Claims. (Cl. 116—124)



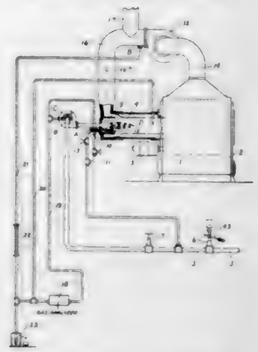
5. In a control system, a plurality of transparent pushbuttons each having a shank portion and an enlarged shoulder portion providing a stop and a light gathering medium, a reduced shoulder portion on said shank portion providing a second stop, a panel having apertures therethrough for said shank portions of said pushbuttons, a stop device for selectively engaging with said second stop of each of said pushbuttons, a source of light adjacent to the back of said panel and said pushbuttons, and a plurality of masks each supported by one of said stop devices and fixedly disposed between said source and said pushbuttons, said masks being proportioned so that said enlarged shoulder portions of said pushbuttons are selectively illuminated by said source and provide a distinctive source of illumination at the ends of said shank portions of said pushbuttons at the front of said panel substantially only when said pushbuttons are actuated.

2,532,213
MECHANICAL MOVEMENT
Richard L. Wilcox and Herbert L. Hoyt, Waterbury, Conn., assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application June 18, 1947, Serial No. 755,439
11 Claims. (Cl. 74—47)



1. Work transfer mechanism for headers or the like having a frame, comprising a rock shaft mounted in the frame, a crank member carried by the rock shaft, a bar having one end pivoted to the crank member, a finger on the other end of said bar to engage the work-piece, a guide link pivoted to the frame and to the bar at a point fixed longitudinally of the bar to control the movement of the latter, and means on the frame operatively connected to said shaft for oscillating said shaft.

2,532,214
PROTECTIVE APPARATUS FOR COMBUSTION SYSTEMS
Walter J. Willenborg, Weehawken, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y., a corporation of New York
Application February 9, 1946, Serial No. 646,511
7 Claims. (Cl. 158—99)



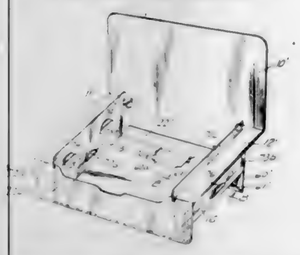
1. The combination of combustion apparatus having a gaseous fuel supply including a supply pipe, conduit means for withdrawing gases from said apparatus, an analyzer in said conduit means having a resistor responsive to the amount of flammable gases present in the composition of the gases withdrawn from the apparatus by the change of its resistance upon the lowering of its temperature by the presence of such flammable gases, a bridge circuit wherein said resistor is connected in one of the legs of the bridge circuit, a shut-off valve in the supply pipe of the fuel supply, a contact device electrically connected to said bridge circuit and actuated to its closed position when the presence of the flammable gases in said apparatus approaches a dangerous condition, and electromagnetic means affected by the closing of said contact device for closing said valve.

2,532,215
CATHODE STRUCTURE
Louis A. Williams, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application May 26, 1948, Serial No. 29,312
14 Claims. (Cl. 250—27.5)

1. An indirectly-heated cathode structure, comprising a cylindrical supporting sleeve of refractory material, an electron-emissive coating supported on the outside of said sleeve, a rigid metallic member insulatingly supported substan-

tially centrally inside said sleeve and spaced from the inner wall thereof, and a bare wire heater having one end thereof secured to said member and its opposite end threadably fastened with respect to one end of said sleeve, said heater being disposed opposite said coating and being spaced throughout its length from the inner wall of said sleeve.

2,532,216
DISPLAY CONTAINER
Marshall I. Williamson, New Haven, Conn.
Application August 4, 1948, Serial No. 42,440
In Canada August 6, 1947
4 Claims. (Cl. 206—44)

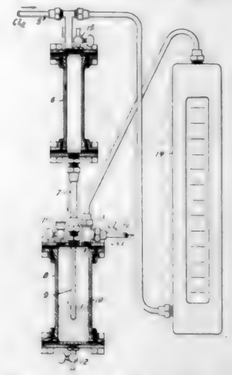


2. In combination with a display receptacle formed of sheet material and collapsible from set-up status to a flat storage or shipping status, such receptacle embodying a bin structure comprising a back wall, side-arms extending forwardly from the lateral sides of said back wall and spaced apart upwardly from the bottom of same, said side-arms defining therebetween a display-aperture, a wing flap member extending laterally from the outer margin of each of said side-arms, engaging means for positioning each of said wing flap members as a diagonal brace between the adjacent side-arm and the body of the display receptacle, a front wall extending downwardly from the forward ends of said side-arms, a bottom panel extending backwardly from the lower end of said front panel and secured to said back panel, and side walls extending upwardly from respective lateral sides of said bottom panel and disposed in engagement with the inner edges of said side-arms, said side walls being capable of collapse inwardly toward one another in effecting collapse of the display receptacle as an entirety, an easel-forming panel hinged to the base of said back wall to swing forwardly below said bottom panel, and locking means for securing said easel-forming panel in forwardly inclined position relative to said back wall and in buttressing position relative to said bottom panel.

2,532,217
DIRECT PRODUCTION OF LITHIUM BOROHYDRIDE
Paul F. Winternitz, New York, N. Y., assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 20, 1945, Serial No. 623,607
9 Claims. (Cl. 23—14)

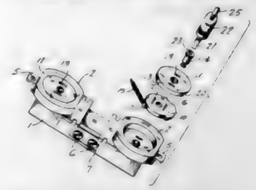
1. A method of making lithium borohydride by reacting lithium hydride with boron fluoride in the presence of an organic liquid which comprises adding a small amount of the fluoride to the hydride, cooling the mixture to such an extent that only limited amounts of gas are liberated, thereafter adding more fluoride, discontinuing fluoride addition when substantial amounts of gas are liberated, and finally recovering the borohydride from the reacted mixture.

2,532,218
SELF-CLEANING CAPILLARY TUBE TYPE FLOWMETER
Eric R. Woodward, New York, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
Application December 3, 1945, Serial No. 632,335
3 Claims. (Cl. 73—211)



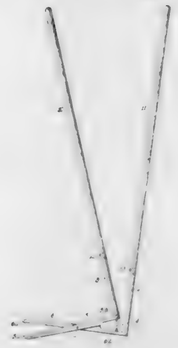
1. A gaseous fluid flow meter comprising a gas impervious chamber adapted to be partially filled to a predetermined level with a liquid, a capillary tube extending downwardly into said chamber and terminating therein beneath the liquid level, an inlet conduit leading to the upper end of said capillary tube and adapted to be connected with a source of the gas to be measured, a gas outlet leading from the chamber at a point above the liquid level and a pressure differential indicator connected across the capillary tube.

2,532,219
ELECTRICAL OUTLET
Burton B. Bierce, Pewaukee, Wis., assignor of one-half to Elwin A. Andrus, Milwaukee, Wis.
Application July 1, 1946, Serial No. 680,601
5 Claims. (Cl. 173—330)



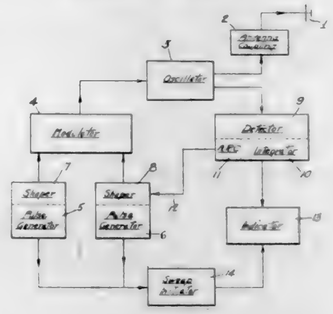
1. An electrical outlet comprising a body having a generally circular face with a pair of spaced slots with electrical contacts disposed therein, a pair of generally circular discs rotatably mounted on the face of said body and each disc having a pair of slots therethrough corresponding to the slots in said body, and means normally biasing said discs rotationally relative to each other to a position in which the corresponding slots of the discs are out of registry with each other and the slots of the inner disc are out of registry with the slots in said body to provide a cover for said contacts.

2,532,220
GARDEN SHEARS
Oscar F. Borg, Portland, Oreg.
Application December 9, 1948, Serial No. 64,270
2 Claims. (Cl. 30—257)



2. In a garden tool, a pair of shearing blades each of same portions extending rearwardly from the point at which they are pivoted, a handle connected with each blade extension and positioned substantially at right angles thereto, a coiled spring supported upon the extension of one of said blades and a bore in the lower portion of one of the handles for engaging said spring and retaining same in operative position.

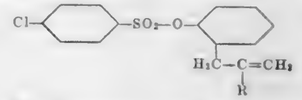
2,532,221
PULSE MODULATED ECHO RANGING SYSTEM
William E. Bradley, Swarthmore, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 16, 1945, Serial No. 572,999
8 Claims. (Cl. 343—13)



8. In a radio detecting and ranging system, means for generating time-spaced signals whose time-spacing varies progressively from a first limit to a second limit and for repeating such generation of signals each time said time-spacing attains said second limit, scanning indicator means, means for initiating a scanning cycle of said indicator means each time said time-spacing attains said second limit, and receiver means for causing said indicator means to produce an indication whenever a received reflection of one of said signals coincides with the succeeding signal.

2,532,222
ARYL ESTERS OF 4-CHLOROBENZENE SULFONIC ACID
Edgar C. Britton and Harold R. Slagh, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application October 31, 1949, Serial No. 124,734
3 Claims. (Cl. 260—456)

1. An aryl ester of 4-chlorobenzene sulfonic acid having the formula

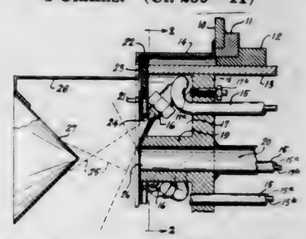


wherein R is a member of the group consisting of hydrogen and methyl.

2,532,223
VINYL RESIN DISPERSION
William H. Bromley, Jr., Agawam, Mass., assignor to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts
No Drawing. Application December 4, 1948, Serial No. 63,630
8 Claims. (Cl. 260—23)

1. A process for preparing a stable aqueous dispersion of polyvinyl butyral resin which comprises agitating a mixture of 0.5 to 30 parts of an organic acid capable of forming a soap, 5 to 80 parts of a plasticizer for polyvinyl butyral, 100 parts of a polyvinyl butyral containing not over 30% hydroxyl groups calculated as polyvinyl alcohol, not over 30% ester groups calculated as polyvinyl ester and the balance substantially butyral acetal, and an amount of an aqueous solution of a strong base to substantially neutralize the organic acid, the amount of water being such as to cause a resin-in-water dispersion to be formed, agitating the dispersion while evaporating sufficient water to cause the dispersion to invert to a water-in-resin dispersion, continuing the agitation until the resin is plasticized and then adding a sufficient amount of water with agitation to cause the dispersion to revert to a resin-in-water dispersion.

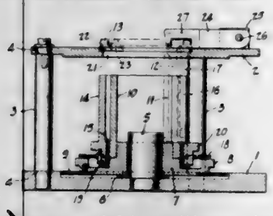
2,532,224
APPARATUS FOR COMBINING FINELY DIVIDED SUBSTANCES
Henry M. Collins, Vaughan Township, Ontario, and Charles Douglas Wright, Toronto, Ontario, Canada, assignors to Reliable Plastics Company, Limited, Toronto, Ontario, Canada
Application February 3, 1949, Serial No. 74,288
4 Claims. (Cl. 259—11)



1. Apparatus for the treatment of finely divided substances comprising, an enclosure, means for rotating said enclosure, an exhaust port at one end of said enclosure aligned with the axis of

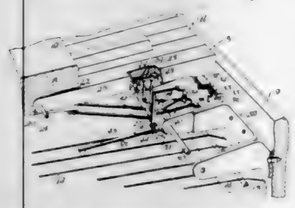
rotation thereof, a fluid inlet port including means arranged about said exhaust port and said axis for injecting a curtain of gaseous fluid into said enclosure and directing said curtain to touch the complete periphery of the exhaust port in a manner to isolate the exhaust port from the interior of the enclosure whereby excess gases must pass through the injected curtain of gaseous fluid for exit from the enclosure through said exhaust port.

2,532,225
BALANCE WEIGHT POSITIONER
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 3, 1945, Serial No. 580,893
11 Claims. (Cl. 33—180)



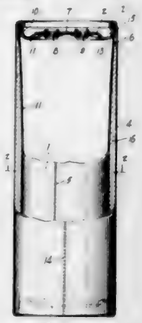
1. A balance weight positioner for indexing balance weights to be placed in a rotary object for effecting vertical balance thereof where unbalance has been determined, comprising relative rotative members to receive separate balance weights and rotate the same relative to each other, means on said members to confine the weights and effect positive rotation of the weights by said members, calibrated means rotated by said rotative members to determine the positioning of the weights in proper angular relation to correct the determined unbalance and means for indexing the weights in said angular position.

2,532,226
MUSICAL INSTRUMENT
Lyle M. Hartman, Ohaton, Alberta, Canada
Application March 4, 1949, Serial No. 79,611
5 Claims. (Cl. 84—313)



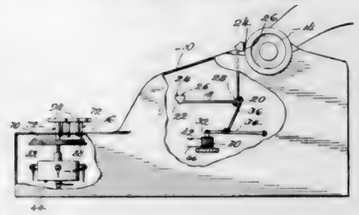
1. A piano-harp characterized by the combination with a horizontally disposed and substantially harpiform keyboard of a set of keys and an associated line-up of shaft-supported hammers therebeneath, a striking action connected to and extending between each key and one of the hammers, said action embodying a bell-crank component journalled on said shaft and a connecting rod extending between said crank and said key, spring means also extending between said crank and an adjacent point of anchorage, said hammers each consisting of a flat resilient strip of material secured to said crank, a string impacting head on the distal end thereof and at least one leaf spring overlying said hammer in the region of attachment of said hammer to said crank for stiffening said strip, and a vibrating assembly composed of a stationary intercepting promontory and a butt-end extension on said hammer engageable with said promontory when said hammer is depressed to produce a vibrating sound effect on said keyboard.

2,532,227
PRESSURE CONTAINER FOR WATER SOFTENERS AND THE LIKE
William C. Heath, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 18, 1945, Serial No. 589,058
2 Claims. (Cl. 220—10)



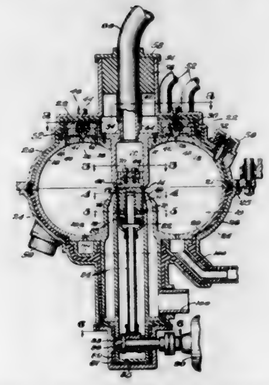
1. A container of the class described, comprising a generally cylindrical shell with end portions gradually flaring outwardly from the body of the shell, heads closing the respective ends of the shell and welded thereto to provide a tank adapted to withstand internal fluid pressure, a thin wall cylindrical metal casing surrounding the shell of said tank and of a diameter corresponding to that of the outer end of the flared portions of said tank to provide a longitudinal space therebetween, insulation disposed in said space, and the ends of said metal casing being crimped over the corresponding tank ends in a manner to secure the casing in place and residually tension the casing longitudinally thereof upon the tank to resist deformation.

2,532,228
ELECTRICALLY OPERATED TYPEWRITER
Frank H. Hesh, Chicago, Ill.
Application July 26, 1946, Serial No. 686,420
7 Claims. (Cl. 197—13)



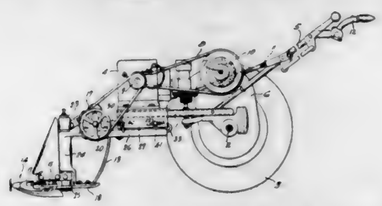
6. An electric typewriter of the type having a plurality of solenoid operated mechanisms, a series of solenoids one for operating each of said mechanisms, an energizing circuit for each solenoid connected to a source of current, and a plurality of keys on the keyboard of said typewriter, and wherein a plurality of said solenoids are energized solely by operation of a single key, characterized by a series of multiple contact switches, each of said switches having a plurality of fixed contacts connected in separate solenoid energizing circuits and a like number of movable contacts, a universally movable mounting for said movable contacts, said mounting being operatively connected to a single key and adapted to be actuated solely by actuation of said key in any one of a plurality of directions selectively to engage the movable contacts with the fixed contacts for selectively energizing said circuits and the solenoids therein and thereby operating the solenoid operated mechanisms, and guide means for controlling the movement of said universally movable mounting.

2,532,229
ACOUSTIC DEVICE
Caperton B. Horsley, Stamford, Conn., assignor to Ultrasonic Corporation, Boston, Mass., a corporation of Massachusetts
Application February 21, 1946, Serial No. 649,279
3 Claims. (Cl. 116—137)



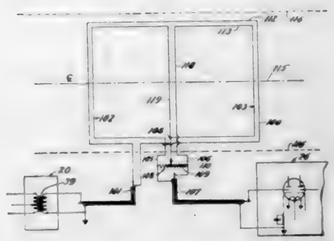
1. Acoustic device which comprises a nozzle having an annular outlet, a knife-edged tube aligned with said nozzle, a plug disposed in the end of said tube and spaced from the wall thereof, a movable sleeve disposed between the plug and said tube, and means for reciprocating said sleeve.

2,532,230
MOWER DAMPENING HITCH
Arleigh G. Hupp, South Milwaukee, Wis., assignor to The Midland Co., South Milwaukee, Wis., a corporation of Wisconsin
Application November 6, 1948, Serial No. 58,739
4 Claims. (Cl. 56—26.5)



1. A hitch for connecting the frames of a driven member and a driving member to operate the same together in service, which comprises a web having upwardly directed longitudinally extending side flanges, means securing the hitch to the frame of the driving member, a pivot member pivoting the forward end portion of the hitch to the frame of the driven member for pivotal movement thereover, and a retaining arm secured at one end to the frame of the driven member underlying the hitch and biased at the other end against the flanges of the hitch to cushion movement of the hitch in pivoting over the frame of the driven member in service.

2,532,231
TRAFFIC DETECTOR
Kenneth W. Jarvis, Winnetka, Ill., assignor to Streeter-Amet Company, a corporation of Illinois
Application May 21, 1949, Serial No. 94,650
4 Claims. (Cl. 177—337)

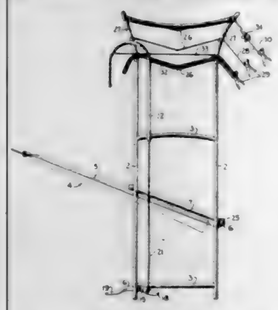


1. In a device of the class described for use at a point along a way, an energy generator, a first conductor forming a primary loop adjacent said point, said first conductor being connected to said energy generator to create an energy field about said loop, apparatus responsive to energy from said generator, and a pair of second conductors connected to said apparatus and forming a pair of secondary loops, said secondary loops being positioned within said primary loop whereby two energy paths are created adjacent said point between said primary loop and said two secondary loops to induce energy in said two second conductors, said two secondary loops being so positioned with respect to said primary loop that the induced energy in said two second conductors is in balanced opposition and substantially no energy is transmitted to said apparatus, whereby metal entering one of said paths will upset said balance and permit energy from said generator to be received by said apparatus.

2,532,232
GARMENT BAGGING MACHINE WITH PIVOTALLY MOUNTED GARMENT SUPPORTER AND LATCH MEANS THEREFOR
Louis M. Jensen, London, Ontario, Canada, assignor to E. R. Jarmain & Co. Limited, London, Ontario, Canada
Application February 24, 1947, Serial No. 730,329
In Canada November 26, 1946
5 Claims. (Cl. 226—18)

5. In a garment bagging machine having a rigid frame structure, garment supporting means comprising a base member, a pair of spaced arms fixed to and carrying the base member and pivotally suspended from the structure about a substantially horizontal axis, and a substantially U-shaped garment supporting member carried by the base member, the ends of the leg portions of the garment supporting member being fixed to said base member at points

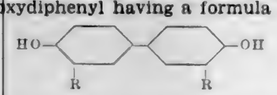
inwardly spaced with respect to said arms, said supporting member being otherwise in free and



unattached relation to freely receive a garment thereover.

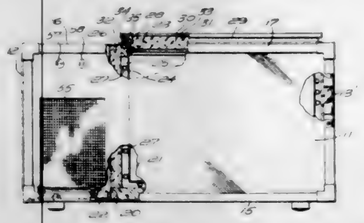
2,532,233
DIHYDROXYDIPHENYL COCCIDIOSIS CONTROL COMPOSITION
Julius E. Johnson, Jr., Midland, and Dorsey R. Mussell, Clare, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application March 17, 1949, Serial No. 82,005
5 Claims. (Cl. 167—53.1)

1. A composition for the suppression of coccidial infection in fowl which comprises a poultry feed and dispersed therein as an active ingredient a dihydroxydiphenyl having a formula



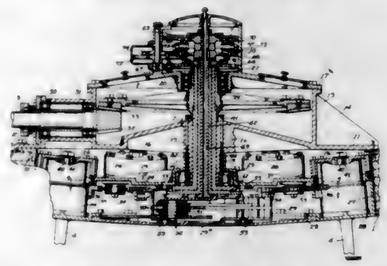
wherein R represents a member of the group consisting of the propyl, allyl and methallyl radicals.

2,532,234
PORTABLE ELECTRIC REFRIGERATOR
Harry E. Kimble, Albuquerque, N. Mex.
Application May 3, 1947, Serial No. 745,821
1 Claim. (Cl. 62—116)



In a portable electric refrigerator, a cabinet having side walls, end walls, a bottom wall and a top wall, an insulated partition intermediate the end walls and dividing the cabinet into a cold compartment and a mechanism compartment, said mechanism compartment containing a motor compressor unit, a refrigerator reservoir, a condenser, and cooling coil connections from the compressor unit to the condenser, to the reservoir and back to the compressor unit, providing a closed circuit cooling system, said cold compartment having a metal inner liner spaced from the walls thereof, the cooling coils from the compressor unit extending into the cold compartment within the space between the metal liner and the walls, said cooling coils being soldered to the metal liner and said space being filled with insulation, the top wall of said cabinet having an opening above the cold compartment, and an insulated cover removably closing said opening, said motor compressor unit including a power circuit having a battery connection and an alternating power connection in parallel, the alternating power connection including a transformer and a rectifier.

2,532,235
CYCLOIDAL PROPELLER CONTROL MECHANISM
Kurt F. J. Kirsten, Seattle, Wash.
Application June 16, 1947, Serial No. 754,822
10 Claims. (Cl. 170—150)

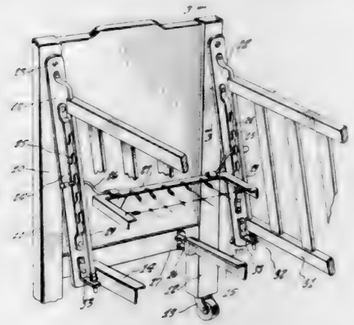


1. A cycloidal propeller or the like, comprising a rotor, a plurality of blades carried by said rotor, and polar control mechanism for said blades including a rotative thrust direction control element, a rotative pitch control element disposed concentrically with said thrust direction control element, and blade turning control mechanism operatively interconnecting said thrust direction control element, said pitch control element, and said blades, and operable to effect a changed thrust direction turning of said blades by conjoint rotation of said thrust direction control element and said pitch control element through equal angles and to effect varied pitch turning of said blades by relative rotation of said thrust direction control element and said pitch control element, and differential gearing means operatively interconnecting said thrust direction control element and said pitch control element and operable to effect conjoint rotation thereof by rotation of said thrust direction control element for changing the thrust direction while the propeller pitch remains unchanged, and further operable, while holding said thrust direction control element against rotation, to effect rotation of said pitch control element relative to said thrust direction control element by rotation of said pitch control element for altering the propeller pitch while the thrust direction remains unchanged.

2,532,236
CRADLE CRIB
Alfred Klazkin, Brooklyn, N. Y.
Application May 15, 1948, Serial No. 27,192
2 Claims. (Cl. 5—103)

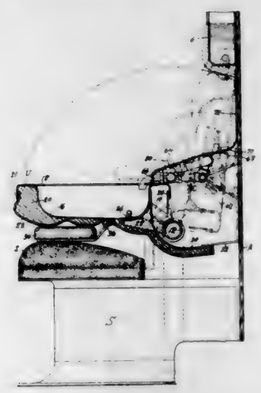
1. In a cradle crib, two end boards having posts at their outer ends disposed vertically at a predetermined distance from each other, longitudinal members tying together the said end boards, a swing arm pivoted at its upper end to the posts of each of said boards, means for supporting a mattress spring on said swing arms,

thereby permitting swinging of said spring sidewards in both directions, and said longitudinal



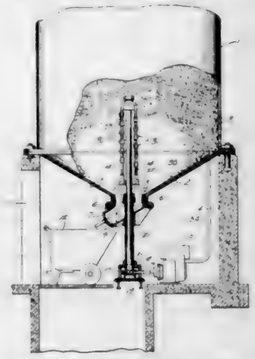
members forming abutting means for said swing arms, in order to limit the swing movement of the latter.

2,532,237
FOLDING SEAT BACK AND WASHBASIN UNIT
Otto Kuhler, Blauvelt, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 16, 1946, Serial No. 684,042
8 Claims. (Cl. 4—169)



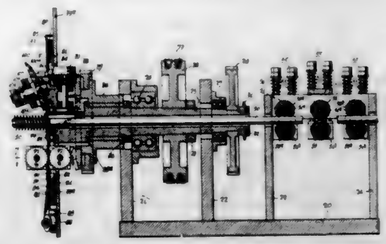
1. The combination with a seat back rotatable from a substantially vertical to a substantially horizontal position about an axis, a substantially horizontal waste pipe forming the axis of rotation for said seat back, a basin mounted within the seat back and accessible for use when the seat back is in its substantially horizontal position, means connecting the waste pipe and basin whereby the basin and seat back are supported on the waste pipe for rotation about the axis of the waste pipe, a passageway in certain of said means permitting drainage of said basin into said waste pipe while the seat back is in its substantially horizontal position, and fluid supply means for supplying fluid to said basin, said fluid supply means being mounted for rotation about an axis substantially parallel to said waste pipe and located above and to one side of said waste pipe.

2,532,238
MECHANICAL UNLOADING AGITATOR FOR SILOS AND THE LIKE
Sven Malke, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 10, 1946, Serial No. 660,919
2 Claims. (Cl. 222—251)



1. An unloading agitator for dislodging silage stored within a silo, comprising a vertical agitator shaft extending upwardly within the bottom of the silo and rotated by driving means connected thereto and disposed outside the silo, a block member secured to the top of said shaft, a cap secured to said block, flexible arms clamped between said block and cap and comprising a flexible cable extending transversely of the shaft and having free ends disposed to swing outwardly under centrifugal force when the arms are rotated by said driven shaft to dislodge the stored silage, and teethed rings secured to the arms and spaced from each other along each arm and offset from the rings of the adjacent arm to bite into the stored silage along different paths and more adequately dislodge the same.

2,532,239
FINNED TUBE WINDING MACHINE
John Shipley Newlin, Paoli, Pa., assignor to Merchant & Evans Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 23, 1948, Serial No. 40,389
3 Claims. (Cl. 153—64.5)



2. Apparatus for winding finned tubing comprising a supporting member, a hollow sleeve horizontally journaled in said supporting member, a hub journaled near one end of said hollow sleeve, a bracket adjustably mounted on said hub, a backing roll shaft journaled in said bracket, a backing roll mounted on said shaft and adapted to rotate in a plane parallel to the axis of the hollow sleeve, a bevel gear mounted at the op-

posite end of said shaft, a bevel gear mounted on said hub and adapted to mesh with said first-named bevel gear, a gear train connecting the bevel gear on the hub with the hollow sleeve, and means for rotating the hollow sleeve in its journals.

2,532,240
UNSATURATED ALKYD FOAM RESINS
John B. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 9, 1949, Serial No. 103,961
7 Claims. (Cl. 260—2.5)

1. A synthetic resin foam prepared by heating at 140 to 150° C. a mixture comprising 100 parts of a fusible unsaturated alkyd resin having an acid number of at least 100, said alkyd resin having been derived from a dihydric alcohol and an unsaturated dibasic carboxylic acid, 10 to 25 parts of a melamine derivative taken from the group consisting of methylol melamines and the lower alkyl ethers thereof in which the alkyl group contains from 1 to 8 carbon atoms, and 1 to 25 parts of diphenyl-4,4'-di(sulfonyl azide).

2,532,241
POLYVINYL ACETAL FOAMS
John B. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 9, 1949, Serial No. 103,963
6 Claims. (Cl. 260—2.5)

1. A process for preparing an insoluble and infusible foamed product which comprises mixing from 1 to 25 parts of diphenyl-4,4'-di(sulfonyl azide) with 100 parts of a plasticized polyvinyl acetal resin and then heating the mixture at 140–150° C.

2,532,242
POLYSTYRENE FOAMS
John B. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 9, 1949, Serial No. 103,964
4 Claims. (Cl. 260—2.5)

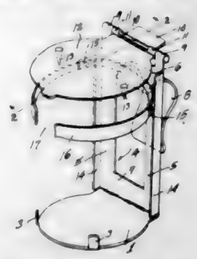
1. A process for preparing an insoluble foamed product which comprises mixing from 1 to 25 parts of diphenyl-4,4'-di(sulfonyl azide) with 100 parts of polystyrene resin and then heating the mixture at 140 to 150° C.

2,532,243
POLYETHYLENE FOAMS
John B. Ott, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 9, 1949, Serial No. 103,965
4 Claims. (Cl. 260—2.5)

1. A process for preparing an insoluble foamed product which comprises mixing from 1 to 25 parts of diphenyl-4,4'-di(sulfonyl azide) with 100 parts of a polyethylene resin and then heating the mixture at 140 to 150° C.

2,532,244
CAN HOLDER AND PERFORATOR
William James Pasmore, St. Maries, Idaho
Application February 12, 1946, Serial No. 647,096
1 Claim. (Cl. 220—51)

A can holder comprising a sheet of metal bent in spaced relation to one end to form a flat base having a straight rear edge and carrying a frame extending upwardly from the rear edge of the base and formed integral with the base, said frame having lips along opposite sides bent forwardly and forming flanges along its opposite side edges projecting forwardly therefrom and free from the base, said flanges carrying forwardly projecting ears spaced from their upper ends and curved longitudinally, a substantially circular clip formed from a strip of resilient metal and disposed horizontally over the base in upwardly spaced relation thereto and open at its front to provide arms for gripping a can set at rest upon the base with its upper portion encircled by the clip, said clip having its rear portion extending transversely across the frame between the flanges in engagement with the frame



and secured against inner side faces of the ears, tongues formed integral with and extending upwardly from opposite side portions of the frame and rolled to form bearing sleeves, a cover having a finger-plate projecting rearwardly thereof and cut longitudinally in spaced relation to opposite sides of the finger-plate and forming tongues rolled to form bearing sleeves, a pin passing through the bearing sleeves of the frame and the cover and pivotally mounting the cover for vertical swinging movement from a lowered position at rest upon the top of a can to a raised position, spurs carried by said cover and projecting forwardly therefrom in position for penetrating the top of a can, and a tongue cut from said frame longitudinally thereof and attached at its upper end and bent to form a handle carried by said frame and projecting rearwardly therefrom.

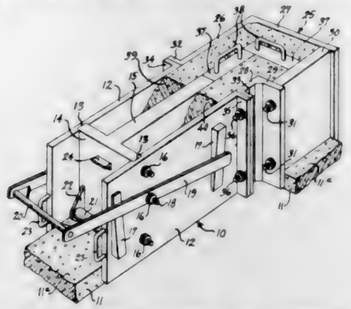
2,532,245
THERMOPLASTIC COMPOSITIONS WITH REDUCED FLOW VISCOSITY
Eugene D. Serdynsky, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application August 26, 1949, Serial No. 112,640
7 Claims. (Cl. 260—23)

1. A composition of matter comprising a material selected from the group consisting of the polymer and crystalline copolymers of vinylidene chloride, and as a flow agent therefor, from about 0.1 to 5.0 per cent by weight of lithium stearate.

2,532,246
CONCRETE WALL MACHINE
Edwin Shuter, Leaside, Ontario, Canada, assignor to Duplex Walls, Inc., Daytona Beach, Fla., a corporation of Florida
Application March 11, 1948, Serial No. 14,331
1 Claim. (Cl. 25—131)

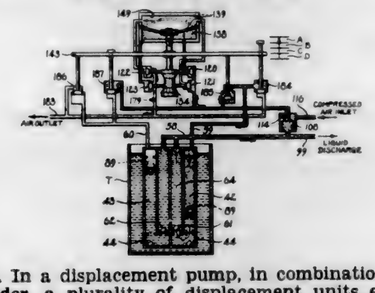
In a concrete wall machine having an end wall designed to rest upon the upper surface of a previous course of a wall being formed, and

side plates mounted on said end wall to form side walls wherein the side plates are of a greater depth than the end wall and extend downwardly to engage the side wall surfaces of the previous course; the combination of, a locking arm in the form of a crossbar adapted to be gripped by the operator for locking and unlocking the machine and for moving the machine along the previous course, a pair of locking arms extending from the crossbar on either side of the machine, means pivotally connecting each of said arms to said side plates and extending through the latter from said end wall, wedge means fixed to said side plates adjacent the free ends of said arms de-



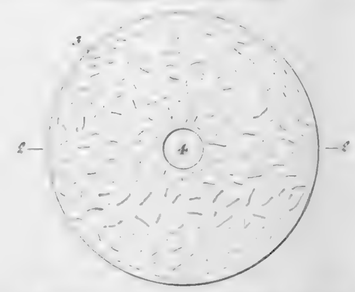
signed to be engaged thereby, and wedge means on said side plates disposed between the pivotal connection of said arms and the crossbar of said arms and in an alternate arrangement with respect to the wedge action of said former wedge means, said locking arm being depressible to cause swinging movement of said arms about their pivotal connections and bearing of said arms against said wedge means whereby the assembly of said side walls and said end plate becomes rigid and locked, said crossbar being accessible for gripping by an operator in a lifting and drawing movement to cause release of said side walls from said end wall a predetermined amount.

2,532,247
DISPLACEMENT PUMP
Robert E. Sykes, Sheboygan, Wis.
Application August 20, 1945, Serial No. 611,573
11 Claims. (Cl. 103—245)



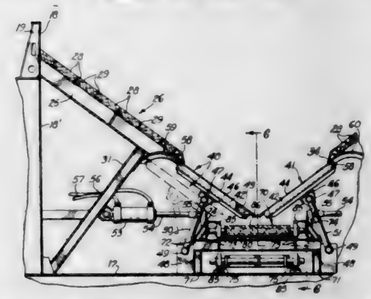
1. In a displacement pump, in combination, a header, a plurality of displacement units each providing a chamber adapted to contain oppositely varying volumes of a fluid substance and a pressure fluid, each unit having non-return fluid admission and discharge means affording admission to the respective chamber of fluid substance from a source of such substance and alternatively discharge thereof from said chamber to said header in response to variations of the volume of pressure fluid in said chamber, joint pressure fluid and sequence control means operable to afford periodic supply of pressure fluid to each chamber individually, with initiation of supply to each chamber prior to termination of such supply to at least one of the chambers preceding in sequence of operation and to effect withdrawal of such fluid from each chamber in the intervals between the respective supply periods, and means to regulate the speed of operation of said sequence control means independently of the supply of pressure fluid to said chambers.

2,532,248
FIBROUS POLISHING DEVICE
Frederick A. Upper and Richard A. Baumgartner, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application June 11, 1948, Serial No. 32,506
7 Claims. (Cl. 51—193)



1. A laminated fibrous polishing device comprising layers of non-abrasive fibrous sheet material bonded with a resilient binder alternated with layers of non-abrasive fibrous sheet material bonded with a non-resilient binder, the layers of said article being adhesively combined.

2,532,249
ROCK CONVEYER SHIP
Montague R. Ward, Long Beach, Calif., assignor, by decree of distribution, to Mary Ward
Application March 14, 1947, Serial No. 734,699
1 Claim. (Cl. 214—15)



Means for transporting and placing rocks and the like, comprising: a boat having a bow and stern; a hopper in said boat for containing a supply of rocks or the like, said hopper having a discharge passage in its bottom; conveyor means movable beneath said hopper lengthwise within said boat and beyond the bow thereof, said conveyor means being adapted to receive the rocks delivered from said hopper through said passage

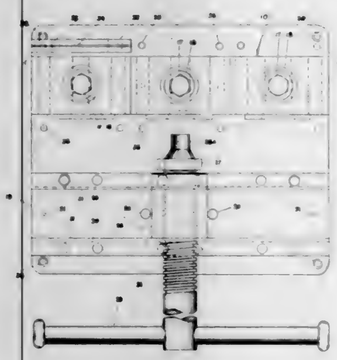
and to discharge them over the bow of said boat; a series of movable gate members spaced longitudinally of said hopper for closing and opening successive portions of said discharge passage, said gate members having means engageable with an adjacent gate member of the series and operative to restrain successive gate members from movement to open position prior to the opening of a preceding gate member; and power means for moving said gate members individually to open and closed positions.

2,532,250

TUBE FLARING MACHINE WITH A PLURALITY OF ALIGNED WORK HOLDERS AND DIES

Albert Edward Watts, St. Laurent, Quebec, Canada

Application October 3, 1947, Serial No. 777,771
4 Claims. (Cl. 153—79)



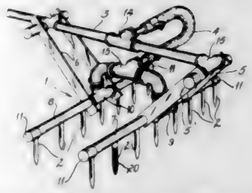
2. In a tube flaring machine with a plurality of work holders and dies, a base plate, a plurality of vise members mounted in lateral alignment on said base plate, each of said vise members comprising an inverted U-shaped bracket, a lower vise block and an upper vise block, said lower vise block being fitted between the parallel flanges of said inverted U-shaped bracket and being flush with the ends of the flanges at the bottom thereof, said inverted U-shaped bracket being fixedly secured to said lower vise block and the latter, in turn, being fixedly mounted on said base plate, said upper vise block having holes extending vertically therethrough, vertical guide pins fixedly secured in said lower vise block and adapted to extend into the vertical holes in said upper vise block thus guiding vertical movement of the latter, said upper and said lower vise blocks each having a semi-circular cut-out therein thus forming a complete cylindrical bore when the same are placed adjacent to one another, an expanding die accommodated in each of said vise members and comprising an upper portion and a lower portion, said upper portion of said expanding die being supported in said upper vise block, and said lower portion of said expanding die being mounted in said lower vise block, thus forming a clamping bore to accommodate a pipe, a movable member mounted on said base plate, a pipe flaring means supported on said movable member, means for progressively feeding said movable member and said pipe flaring means longitudinally with respect to said base plate and towards any of said vise members.

2,532,251

SPRAYING APPARATUS FOR TREATING LIVESTOCK

Homer E. Whitmire, Clayton, and Ralph J. Knepper, Kirkwood, Mo., assignors to Whitmire Research Laboratories, Inc., St. Louis, Mo., a corporation of Missouri

Application September 3, 1949, Serial No. 113,984
7 Claims. (Cl. 119—159)



1. A device of the kind described comprising a header, a gang of tines projecting downwardly from the header, said tines having a bore extending from the tips thereof and communicating with the interior of said header, an elongated rigid conduit, and a flexible connection between said conduit and said header arranged to pass fluid from the interior of the conduit to the interior of the header.

2,532,252

MAKING PENTAERYTHRITOL

Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, a corporation of New York

No Drawing. Application July 27, 1948, Serial No. 40,980
1 Claim. (Cl. 260—635)

In making pentaerythritol by the method including reacting acetaldehyde and formaldehyde in aqueous alkaline solution, to give first a condensation liquor including pentaerythritol and by-products of the condensation, the improvement which comprises mixing hydrogen peroxide with the condensation liquor without any previous evaporation thereof and at a temperature of 10° to 40° C., in the proportion of 3 to 15 parts by weight of the peroxide on the 100% basis for 100 parts of non-volatile organic materials in the said liquor, to destroy those of the by-products present that normally cause production of sticky and colored material during the subsequent evaporation, and then subjecting the resulting mixture to filtering, evaporating, and cooling, to produce crystals of pentaerythritol.

2,532,253

SEPARATION OF PENTAERYTHRITOL AND FORMIC ACID

Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, a corporation of New York

No Drawing. Application July 13, 1949, Serial No. 104,585
3 Claims. (Cl. 260—637)

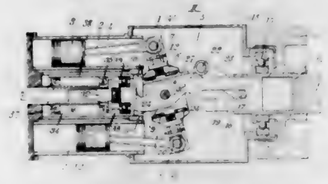
1. In crystallizing pentaerythritol from an aqueous solution of pentaerythritol, formic acid and polyhydroxy compounds other than pentaerythritol, the method which comprises maintaining the said solution in acid condition, mixing tributyl phosphate therewith, causing the mixture so made to stand, this resulting in the separation of tributyl phosphate and material extracted thereby as an upper layer above a remaining heavier aqueous solution of pentaerythritol, separating the upper layer from the heavier aqueous solution, evaporating the said heavier solution to concentrated form, and subsequently cooling the thus concentrated solution, to cause crystallization of pentaerythritol.

2,532,254

DEVICE FOR CONVERTING MOTION

Gaston Robert Bouchard, Saint Germain en Laye, France

Application November 24, 1945, Serial No. 630,624
In France July 4, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 4, 1962
9 Claims. (Cl. 74—60)



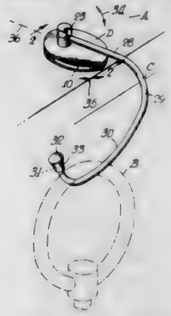
1. A machine which comprises, in combination, a shaft, at least two cylinder and piston units parallel to said shaft, two concentric rings pivoted to each other about a common diameter thereof, at least two connecting rods for said pistons respectively, pivoted to the outer ring about axes perpendicular to said diameter, a part longitudinally slidable with respect to said shaft along an axis fixed in position with respect to said cylinder, said part being pivotally connected with said outer ring about an axis perpendicular to said common diameter at the middle point thereof, a shaft element slidably keyed to said shaft and journalled in said part to be axially movable together therewith, a bearing for the inner ring pivotally connected with said shaft element about an axis perpendicular to said shaft and passing through the point of intersection of said shaft axis and said common diameter, means for producing longitudinal displacements of said part with respect to said shaft, and link means between said bearing and said shaft for modifying the inclination of said bearing with respect to the axis of said shaft as a function of the longitudinal position of said part with respect to said shaft.

2,532,255

HANGER DEVICE

Edward M. Davis, Brooklyn, N. Y.

Application July 12, 1949, Serial No. 104,206
7 Claims. (Cl. 248—215)



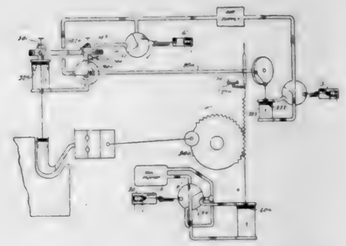
1. A ladies' hand bag hanger comprising a plate to rest upon a counter or table, a downwardly depending hook member and a ball and socket connection therebetween comprising a sleeve mounted on said plate having a central ball receiving recess and a lateral vertical slot to permit vertical swinging movement and prevent lateral swinging movement, said sleeve having a lower extension extending through an opening in said plate.

2,532,256

METHOD OF DIE CASTING

Burton F. Holmes and Herbert H. Heindel, Toledo, Ohio, assignors to Schultz Die Casting Company, Toledo, Ohio, a corporation of Ohio

Application December 10, 1947, Serial No. 790,838
2 Claims. (Cl. 22—209)



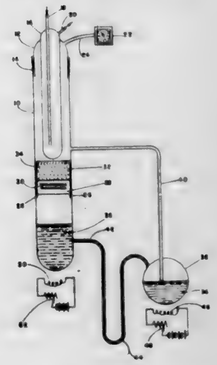
1. A method of hot chamber pressure die casting employing pressures in excess of one thousand pounds per square inch comprising closing the dies to form a mold cavity, injecting a portion of the metal at a relatively low pressure on the molten metal and after the cavity has been partially filled completing the filling by injection at a pressure in excess of one thousand pounds per square inch.

2,532,257

CORROSION TESTING APPARATUS

Isidor Kirshenbaum, New York, N. Y., and David Allan McCaulay, Chicago, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application November 28, 1945, Serial No. 631,415
2 Claims. (Cl. 23—253)



1. Apparatus for testing a sample for corrosion resistance comprising a closed tube arranged to contain a vaporizable corrosive liquid in the lower portion thereof, indentations centrally of

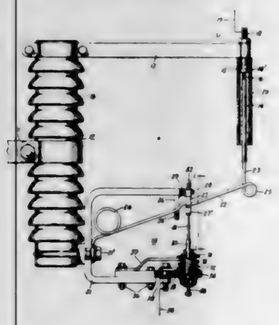
said tube, a first sleeve supported on said indentations and arranged to support a sample out of contact with corrosive liquid in the lower portion of the tube, a second sleeve supportable by said first sleeve and containing a plurality of glass helices, a finger condenser in the upper portion of said tube, the lowermost portion of the condenser being above the second sleeve, a means for feeding the liquid in pulses including a reservoir arranged to contain a vaporizable corrosive liquid, a first conduit connecting said reservoir with the lower portion of the tube whereby liquid in said tube may flow into said reservoir, a second conduit connecting the said reservoir with the tube adjacent the condenser and above the second sleeve whereby the sample is periodically flushed with liquid corrosive material from the reservoir, heating means for the reservoir and heating means for the tube whereby the sample is continuously exposed to corrosive vapors and is periodically flushed with corrosive liquid by action of the feeding means.

2,532,258

ELECTRIC CIRCUIT INTERRUPTER

George F. Lincks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application February 16, 1944, Serial No. 522,584
3 Claims. (Cl. 200—106)



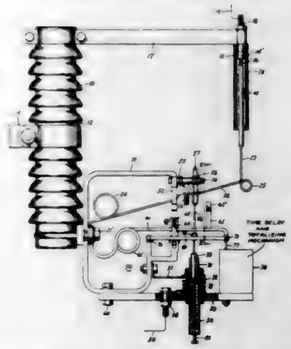
1. A circuit interrupting device for use on high voltage distribution circuits comprising an insulating column-shaped support, a rigid arm fixedly mounted on and extending from one end of said support, an arc expulsion tube immovably fixed to the free end of said rigid arm, a resilient arm extending from said column-shaped support, one end of said resilient arm being immovably fixed to the other end of said support and extending outwardly therefrom, said arm being inherently resilient to cause relatively wide resilient movement of the free end thereof, a contact mounted on said rigid arm within said expulsion tube, another contact engageable with said first-mentioned contact mounted on said free end of said resilient arm so that the resiliency thereof constantly biases said contacts out of engagement, a support member of conducting material rigidly mounted on said other end of said column-shaped support and current responsive releasable latching means mounted on said support of conducting material and having an element electrically connected to said support, said latching means being engageable with said resilient arm to normally hold said contacts in engagement and responsive to a predetermined current through said contacts to release said resilient arm and permit separation of said contacts.

2,532,259

ELECTRIC CIRCUIT INTERRUPTER

George F. Lincks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Original application February 16, 1944, Serial No. 522,584. Divided and this application February 25, 1948, Serial No. 10,785
2 Claims. (Cl. 200—89)



2. In an electric switching device, the combination of an insulating support, an arm extending outwardly from said support with one end thereof immovably fixed to said support, said arm being a spring member inherently resilient to cause relatively wide resilient movement of the other and free end thereof, a pair of relatively movable contacts, one of said contacts being stationary the other of said contacts being mounted on said free end of said resilient arm so that the resiliency thereof constantly biases said contact to a circuit opening position with respect to said other contact, releasable holding means for holding said contacts and said resilient arm in a closed circuit position so that said one contact is in current carrying engagement with the other of said pair of relatively movable contacts, another inherently resilient arm with one end thereof immovably fixed to said suport and a portion adjacent the opposite and free end thereof engageable with said first mentioned arm, said other resilient arm being a stronger spring member than said first mentioned arm and the biasing action thereof being in a direction opposite to the biasing action of said first arm so as to cause reclosing of said contacts when said contact holding means is released and when said other arm is in engagement with said first arm, a latch normally restraining the biasing action of said second arm tending to cause engagement thereof with said first mentioned arm and means responsive to a predetermined current through said contacts for releasing said contact holding means to effect separation of said contacts and for releasing said latch to effect engagement of said second arm with said first mentioned arm and reengagement of said contacts after a predetermined delay following release of said contact holding means.

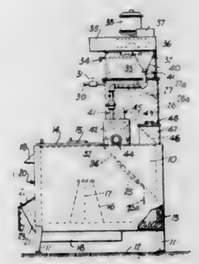
2,532,260

COMBINED SMOKE GENERATOR AND CONDITIONER

Martin H. Lipton, Forest Hills, N. Y.

Application September 10, 1946, Serial No. 695,915
1 Claim. (Cl. 183—21)

A device for washing smoke comprising a smoke scrubbing chamber into which the unwashed smoke is passed, a first means for drawing the smoke through said chamber, a second means for removing undesired constituents from the smoke, and a third means for directing the treated smoke into a separate path of travel from the undesired constituents, said first-named means including a scroll atop the scrubbing chamber and a blower fan therewithin, together with a control below the scroll for controlling the admission of smoke to said scroll, said second means including a structure for forming a



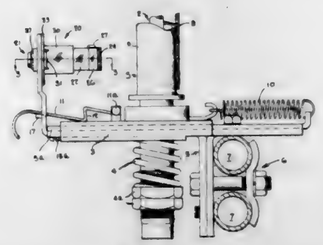
water curtain through which the smoke is forced for initially treating the smoke, said third means including an upwardly directed outlet for the smoke and a downwardly directed funnel-shaped outlet for the undesired constituents, the centrifugal force of the blower fan serving to throw remaining undesired constituents from the initially scrubbed smoke to fall into the funnel-shaped outlet, a collector for said undesired constituents and an overflow pot in said collector to retain the solid matter while permitting water to flow off from said constituents.

2,532,261

BRAKE FOR TEXTILE MILL SPINDLES

Charles E. Miller, East Cleveland, and Floyd H. Sweet, Euclid, Ohio, assignors to Marquette Metal Products Company, Cleveland, Ohio, a corporation

Application June 18, 1949, Serial No. 100,052
4 Claims. (Cl. 57—89)



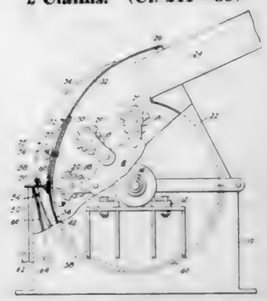
1. A textile spindle brake for a spindle supported on a slide adapted to be latched to a fixed support in a position wherein the spindle is clear of its driving band, said brake comprising a spring plunger device slidably carried by the fixed support and always presenting the same friction braking face for contact with a circular surface of the spindle, said braking face yieldingly engaging said circular surface when the slide is latched in said position.

2,532,262

HAMMER MILL PROVIDED WITH MEANS FOR DETACHABLY MOUNTING THE SIZING SCREEN

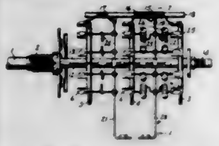
Charles F. Schutte, Buffalo, and Herman D. Schutte, Snyder, N. Y.

Application September 15, 1948, Serial No. 49,404
2 Claims. (Cl. 241—86)



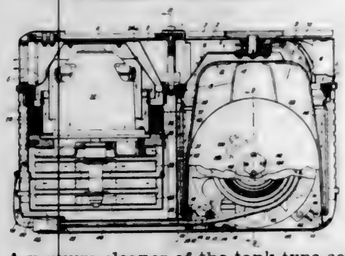
1. In a sizing mill, a bottom frame, a rotor mounted upon said frame for rotation within a circular orbit, a semi-cylindrical screen mounted upon said frame to substantially complement the lower half of said rotor orbit, said screen being elastic and having a tendency to normally set in a curvature having a radius substantially greater than the radius of said rotor orbit, a top cover mounted upon said bottom frame to complete enclosure of said rotor at the upper side thereof, said cover being shaped to generally conform to the orbit of said rotor and divergent from the curve of said frame at one end to provide a screen change opening therebetween, ledge means extending from said bottom frame to slidably receive and locate one end portion of said screen so as to be in operating position coaxial with said rotor orbit, said ledge means being adapted to limit centripetal displacement of said screen throughout its entire extent to a cylindrical operating position coaxial with said rotor orbit, and lever means including a handle and a mill closure plate hingedly mounted upon said frame to engage said screen at the other end portion thereof, said mill closure plate being formed with a screen engaging portion for slide bearing engagement against said screen for elastically deforming said screen into said operating position by clamping said other end portion of said screen upwardly and centripetally into said operating position against the elastic forces of said screen, and a locking device associated with said handle for detachably locking the latter in screen operating position, whereby said screen may be mounted in operating position within said mill by disposing it in inverted attitude upon said top cover and then sliding said screen downwardly and under said rotor into engagement with said ledge means at the rear end of said mill, and then levering the trailing end portion of said screen into constricted curvilinear form as limited by said ledge means against the elastic force of said screen into a coaxial attitude with respect to said rotor orbit and locking said screen in said operating position by means of said locking device, and a guard plate, operable mounting means for mounting said guard plate on said top cover, said mounting means being so constructed and arranged as to permit said guard plate to be moved from its normal position on said cover and clear of said screen change opening down to a position extending between said rotor orbit and the released position of said other end portion of said screen.

2,532,263
HIGH-FREQUENCY COUPLING TRANSFORMER
John O. Silvey, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application November 16, 1948, Serial No. 60,257
8 Claims. (Cl. 250—40)



1. In a high frequency receiver having a chassis and a plurality of high frequency circuits the combination comprising a metallic plate connected to and supported by said chassis, a high frequency coupling transformer comprising a primary coil and a secondary coil, said coils being disposed on opposite sides of said plate and each having one terminal connected to said plate at a point thereon, said coils being electromagnetically shielded from each other by said plate and having negligible mutual inductance therebetween, said plate being slotted so as to provide a coupling impedance for transferring energy between said primary and secondary coils, the other terminals of said primary and secondary coils being connected in operative circuit relation to said high frequency circuits.

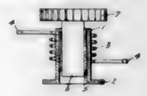
2,532,264
TANK TYPE VACUUM CLEANER
Archie E. Smith, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 22, 1947, Serial No. 781,455
5 Claims. (Cl. 183—37)



1. A vacuum cleaner of the tank type comprising a housing including two compartments, a perforated partition between said compartments, a cord reel in one of said compartments, a frame positioned adjacent said cord reel and spaced therefrom, a dust-collecting bag in said one of said compartments, said bag including one portion adjacent said partition and a reentrant portion disposed about said frame, a fan and an electric driving motor therefor in the other of said compartments and electrical connections from said cord reel to said motor.

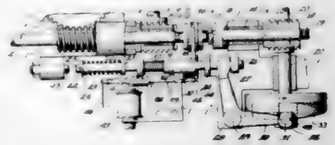
2,532,265
THERMAL OVERLOAD PROTECTIVE RELAY USING INDIUM
Lyall Zickrick, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 19, 1949, Serial No. 71,724
7 Claims. (Cl. 200—124)

1. A thermal overload protective device for electrical apparatus comprising, a pair of coaxially disposed relatively movable members positioned in closely spaced relation, a fusible bond held between said members by surface tension when fused for holding said members in stationary relationship with each other, said



bond being formed of a material of the class consisting of indium and indium eutectic alloys which are self-wetting and have a sharp melting point at a useful temperature not exceeding 160° C., and means responsive to the current through said electrical apparatus for heating said bond.

2,532,266
CLUTCH AND CONTROL MECHANISM THEREFOR
Lloyd J. Andres, Itasca, Ill., assignor, by mesne assignments, to H. C. Evans & Company, Chicago, Ill., a corporation of Illinois
Application August 12, 1946, Serial No. 689,945
10 Claims. (Cl. 192—82)

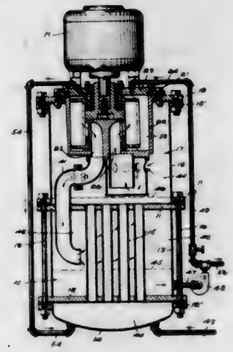


1. A clutch mechanism comprising a driving shaft, a plurality of independent driven shafts, a slidable clutch member arranged to be driven by said driving shaft and to be connected with said driven shafts, respectively, in predetermined sequence and timed order, and clutch control means including a shifter member operatively engaging said slidable clutch member, a control shaft on which said shifter member is slidably mounted, a spring on said control shaft for moving said shifter member lengthwise of the shaft to move said slidable clutch member into one of its operative positions, cam mechanism, operable by power derived from said driving shaft at predetermined stages in the operation of the mechanism, to compress said spring and store energy therein for subsequent operation of said shifter member, a latch for holding said spring under compression, and means operable by slight force for releasing said latch with a trigger action to cause said spring to actuate said shifter member and thereby move said slidable clutch member into said operative position.

2,532,267
METHOD OF AND APPARATUS FOR COMPRESSING VAPORS
Curtis D. Chase, Brighton, Mass., assignor to Boston Marine Works, Inc., East Boston, Mass., a corporation of Massachusetts
Application February 9, 1948, Serial No. 7,275
7 Claims. (Cl. 62—115)

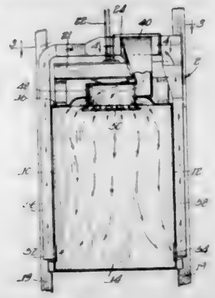
1. Apparatus for compressing vapors or gases, comprising a compressor having a stationary casing member and an internal rotary member, said rotary member being provided with a plurality of spaced ports around its circumference and said casing member having a portion extending axially into said rotary member and provided with spaced ports for successive registration with the ports of the rotary member to establish suction and compression areas about

the circumference of said axial extension, said axial extension also having an inlet and an outlet passage, a vapor section surrounding said compressor and having a vapor chamber with which said inlet passage communicates, an evaporator section associated with said vapor section and having an evaporator chamber with



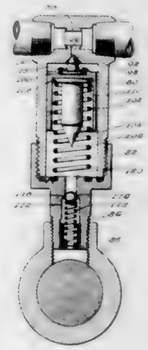
which said outlet passage communicates, means for supplying fluid to said evaporator section for evaporation therein, means for withdrawing a portion of the evaporated fluid from said evaporator section and utilizing it as a compression medium by sending it to the compressor, and means for returning any excess fluid to the evaporator section.

2,532,268
AIR-CONDITIONED ELEVATOR
William F. Christmann, Chicago, Ill., assignor to Kroeschell Engineering Co., Chicago, Ill., a corporation of Illinois
Application November 10, 1947, Serial No. 784,975
15 Claims. (Cl. 62—129)



1. In an elevator, the combination comprising an elevator car adapted for reciprocation in a vertical shaft, said car having a floor, side walls, door and ceiling, means carried by the car for controlling air temperature and humidity within the car chamber including a refrigerating unit, cooling conduits, an air impeller, an electric motor for driving the impeller, inlet and outlet passageways for directing air toward and away from said impeller, and conduit means associated with outlet passageway for causing conditioned air to be delivered to the upper portion of said car and conduit means interconnecting the lower portion of said car and said inlet passageway for returning said air to said inlet passageway.

2,532,269
MEASURING VALVE
Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Original application August 26, 1942, Serial No. 456,281. Divided and this application October 4, 1945, Serial No. 620,339
1 Claim. (Cl. 184—7)

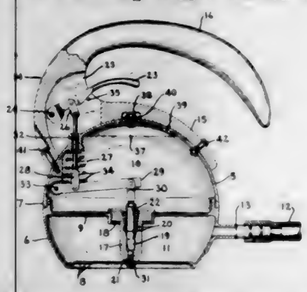


A measuring valve of the class described, comprising a body having an inlet provided with a valve seat of small diameter and a cylinder communicating with said inlet, a piston reciprocable in said cylinder, said piston comprising a head and a downwardly extending skirt adjacent the walls of said cylinder throughout substantially one-half the length thereof, a valve floatingly mounted in said head and having a tapered portion adapted to cooperate with said valve seat, said body having an outlet passage provided with a pair of valve seats, said pair of valve seats being of the same diameter and larger than said first named valve seat, a second valve movable with said piston and adapted to cooperate with one of said last named valve seats, said last named valve having an enlarged upper end engaging said piston and a tapered lower end for engaging its valve seat, a spring confined between said body and enlarged upper end of said last named valve for holding said valve in contact with said piston, said spring also urging said piston toward said first named valve seat and adapted to hold said first named valve in contact with its seat, said piston skirt having a longitudinal recess providing a bypass passage for said piston, and a relatively light check valve for the other of said pair of valve seats.

2,532,270
TRIGGER ACTUATED PORTABLE SPRAY HEAD
Flora H. Ellinger, Chicago, Ill.
Application October 30, 1948, Serial No. 57,520
3 Claims. (Cl. 299—84)

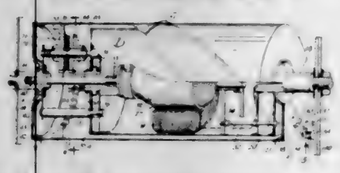
1. A liquid and soap spraying device comprising, a universally movable casing having a central lower liquid soap delivery passage and an upper manipulating handle provided with a gripping portion spanning the axis of said passage, a soap confining chamber within said casing adjacent to the handle and having ports communicating with the medial portion of said passage, a valve movable within said passage to

control the delivery of soap through said ports, and a valve actuating trigger carried by said



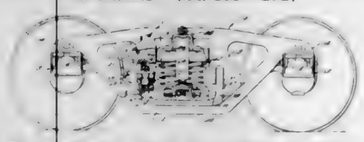
handle between said casing and said gripping portion.

2,532,271
COMPACT FACSIMILE RECORDER AND SYNCHRONIZER
William G. H. Finch, Newtown, Conn., assignor, by mesne assignments, to Pierce Company, Providence, R. I.
Application February 5, 1947, Serial No. 726,473
2 Claims. (Cl. 178—69.5)



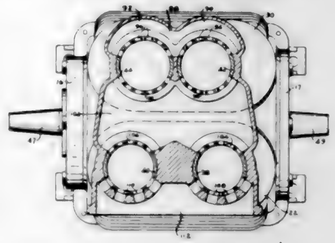
1. In facsimile apparatus, facsimile scanning means including a drum; an electric motor for operating said drum; said motor having a stator and a rotor; said stator and rotor being mounted inside said drum; connecting members between said rotor and said drum; said connecting members being also mounted inside said drum; said connecting elements including a clutch member whereby said drum may be halted while said motor and connecting members continue to operate; means for halting said drum at a predetermined phase position thereof and means responsive to a synchronizing signal for permitting said drum to begin to rotate once more.

2,532,272
SWING HANGER PIN FOR RAILWAY TRUCKS
Robert N. Janeway, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 21, 1948, Serial No. 10,055
23 Claims. (Cl. 105—191)



2. In a railway truck comprising a side member having spaced portions provided with openings having flat converging surfaces, a pin having end portions with flat converging surfaces engaging the flat converging surfaces of the openings and a central portion having a spherical surface, and a swing hanger having a leg provided with an opening receiving the central portion of the pin and having a spherical surface on one side engaging the spherical surface on the pin.

2,532,273
TWO-CYCLE INTERNAL-COMBUSTION ENGINE
Frederick M. Jones, Minneapolis, Minn., assignor to U. S. Thermo Control Co., Minneapolis, Minn., a corporation of Minnesota
Application December 24, 1947, Serial No. 793,589
8 Claims. (Cl. 123—72)

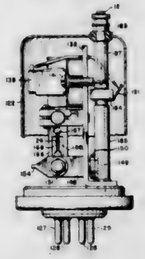


1. A two cycle engine, comprising an engine casing, a first pair of cylinders extending from said casing forming two combustion chambers, a second pair of cylinders extending from said casing forming two pre-compression chambers, each of said pairs of cylinders extending angularly from said casing in opposite relation to the other pair of cylinders in a manner as to form an inclusive angle which is not in excess of 45° between the respective pairs of cylinders, a crankshaft positioned in the casing, a piston in each cylinder and connected to the crankshaft in such a manner that the pistons in each pair of cylinders simultaneously reciprocate in opposite directions, means for conducting fluid to the pair of pre-compression chambers, and a passage extending between the first and second pairs of cylinders, said passage forming a common communication between all of the cylinders for the passage of pre-compressed charges from the second pair of cylinders to the first pair of cylinders in such a manner that each combustion cylinder receives through the common passage a pre-compressed charge from its obliquely opposite pre-compression cylinder.

2,532,274
VIBRATOR
Frederick W. Side, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 25, 1943, Serial No. 503,758
16 Claims. (Cl. 200—90)

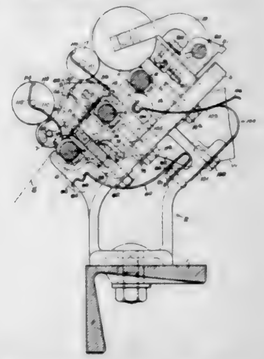
11. Switching means for regularly interrupting, in synchronism with the fluctuation of a fluctuating energizing current, the minute flow of current in a direct current measuring circuit to create in said circuit a minute pulsating unidirectional flow of current the pulsations of which are synchronized with the fluctuations of the fluctuating energizing current, comprising, in combination, a support, a resilient reed fixed at one end to said support to project therefrom for vibration of the projecting free portion of said reed, electromagnetic drive means to vibrate said reed, contact means mounted on said support and disposed to be engaged by said reed, a cover for said reed, said electromagnetic means,

and said contact means, first terminal means extending from said cover, first conductor means connecting said contact means and said reed to said terminal means and operative to provide therebetween an electrical connection through which the minute measuring circuit current is adapted to flow, other terminal means disposed in widely spaced and electrically insulated relation with respect to said first terminal means and extending through said cover at a position remote from said first terminal means, and other



conductor means remotely located with respect to said first conductor means and connecting said other terminal means to said electromagnetic drive means to provide therebetween an electrical connection through which relatively large fluctuating energizing current is adapted to flow, said first terminal means and said first conductor means being constructed and arranged relative to said other terminal means and said other conductor means so as to minimize electromagnetic coupling between said first and said other conductor means.

2,532,275
TEXTILE DRAFTING AND SPINNING
Edward G. Whittaker, New Rochelle, N. Y., assignor to Anselm and Company, Inc., San Francisco, Calif., a corporation of Delaware
Application February 20, 1948, Serial No. 9,694
14 Claims. (Cl. 19—131)



3. In combination with the table and roll stands of a textile drafting and spinning frame having at least three pairs of drafting rolls, bearings on the stand for the lower rolls, cap bars pivoted on the stand carrying upper back roll means for a plurality of lines of draft, and for each line of draft a front and intermediate top roll assembly unit comprising a cradle having relatively fixed bearing formations for said front and intermediate top rolls and separate loading means for each cradle unit.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

536,274. **CEMENTED CARBIDE PISTON RING.** George F. Taylor, Grosse Pointe Woods, Mich., assignor to Carboloy Company, Inc., a corporation of New York. Filed May 19, 1944. Published Nov. 28, 1950. Class 309—44. 1 sheet of drawings. 8 pages of specification.

The device relates to a wear resistant hollow cemented hard metal carbide piston ring having capillary grooves of uniform depth extending diagonally entirely across the face of said ring.

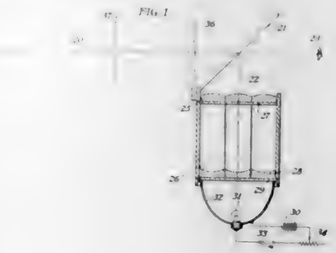
570,425. **GAGE FOR GARRISON CAP.** Edward M. Fineberg, Cleveland, Ohio, and John F. O'Connell, East Lansdowne, Pa. Filed Dec. 29, 1944. Published Nov. 28, 1950. Class 33—143. 1 sheet of drawings. 7 pages of specification.

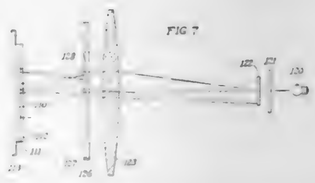
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

This device is an inside distance measuring caliper or gage specifically designed for the measurement of garrison caps.

With reference to the drawing, **1** is a back plate to which are secured undercut strips **2**, **3**, end blocks **4**, **5**, and fixed measuring finger **7**. Movable finger **10** is secured to strip **11**, which in turn is secured to runner bar **13**. The runner bar **13** is bevelled to fit the groove formed by the undercut strips **2**, **3**, and is slidable therein within the limits established by the opposing faces of end block **4** and the right end of strip **2** as illustrated. Knob **12** facilitates the manual adjustment of runner bar **13** and finger **10**. Index or reference mark **16** is readable against two scales of graduations, **14** and **15**, on strips **3** and **2**, respectively. Scale **14** is graduated in terms of hat size. Scale **15** is referred to for an indication of the amount of stretch or tension that is imparted to a hat in a measuring operation. For a series of hats of the same fabric, the stretch or tension factor should be the same in each measurement, and should be that normally applied to the hat when worn. Accordingly, the fingers **7** and **10** are inserted in the hat, and **10** is moved until slack is taken up, whereupon an additional arbitrary tension is applied, as indicated by a further movement of index **16** over two units, for instance, on scale **15**, and the hat size is read off scale **14**.

708,374. **METHOD OF MAKING INFINITY SIGHTS.** Raymond W. Wengel, Rochester, N. Y. Filed Nov. 7, 1946. Published Nov. 28, 1950. Class 95—5. 2 sheets of drawings. 10 pages of specification.





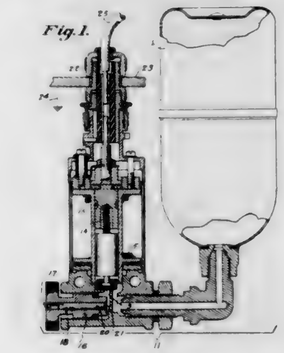
The application is directed to a method of making an infinity sight having a plurality of juxtaposed equal power light collimating elements and corresponding juxtaposed reticles in the common focal plane of the collimating elements. In order that the reticles will be effectively identical and correctly placed, the reticles are produced photographically from a master reticle, as shown in Fig. 4 or Fig. 7.

In Fig. **4**, light from a lamp **55** is diffused by an opal or ground glass **56** to illuminate uniformly a master reticle engraved or drawn on a transparent sheet **57**. Light from this reticle is collimated by a large collimator lens **58** so that there is a virtual image at infinity. The collimated light, apparently from this virtual image, is focused by the individual collimator lenses **59** to expose a photosensitive layer **61**, preferably a high contrast layer, coated on the front surface of a reticle bearing element **60**. This layer is then processed to produce a plurality of identical reticle images on layer **61**. Element **60** is aligned with collimators **59**, in the same position they were in during the photographic step, to form the infinity sight.

To make a reflector type sight, using a concave reflector instead of the lens, the method illustrated in Fig. 7 is used. Light from lamp **120** as diffused by ground glass **121** illuminates the master reticle **122**. Light from this reticle **122** is collimated by a large collimator lens **123** and passes through a glass plate **126** and an emulsion layer **127** to reach the semi-transparent concave reflector **110**. To be sure that the target beam is unaffected by the concave reflector **110**, this reflecting surface is located between a plano-concave element **111** and as convex plano element having a total power equal to zero. This light on the way through the emulsion **127** is insufficient to fog it but the light as refocused onto the emulsion layer by the concave reflectors **110** does expose the emulsion rendering it developable at point **128**, for example, to form a reticle. After developing the images on **127**, the sight is made by fastening transparent sheet **113**, elements **110**, **111**, **112**, and **126** in the position they occupied during the photographic step.

773,725. **DISINSECTIZATION APPARATUS.** Donald L. Snow, Cleveland, Ohio, assignor to the United States of America as represented by the Administrator, Federal Security Agency. Filed Sept. 12, 1947. Published Nov. 28, 1950. Class 299—58. 2 sheets of drawings. 6 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



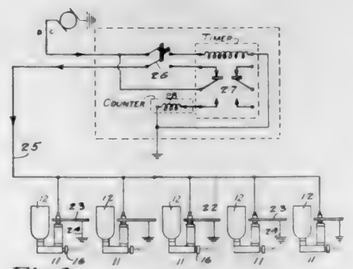


Fig. 2.

This device provides disinsectization equipment designed primarily for permanent installation on airplanes for quickly killing all mosquitoes which may be aboard an airplane, and particularly on those leaving an airport in the tropics where virulent mosquito transmitted diseases may exist.

This device is operated during flight to supply a substantially uniformly proportioned insect exterminating mist within each of a plurality of confined spaces within an airplane by means of a plurality of aerosol spraying units **11**, each of which includes a storage reservoir **12** containing a liquefied gas under pressure, for example, dichlorodifluoromethane, containing a suitable insecticide, for example, DDT.

An aerosol unit **11** is detachably mounted in each confined space within an airplane and each unit includes a solenoid **15** which opens a discharge valve **13** normally closed by a spring **14**, all of the solenoids being connected in series in an insulated electrical circuit **25**, which circuit is initially manually closed by a double pole switch **26**, and is automatically opened by an adjustable interval timer **27** to permit all of the discharge valves **13** to close simultaneously. Each of the aerosol units **11** includes a connector **22** to support the unit on a metallic part **23** of the aircraft so as to constitute an electrical ground and each unit is provided with a nozzle **16** having a discharge aperture **17** and is internally threaded as at **18**, the outer portion of the threads being cut away so as to define, with a threaded insert **20**, a spiral escape passage. Insert **20** is slotted as at **21** for engagement by a screw driver. A counter **28** is energized by each closing of the switch **26** and, therefore, registers the number of operations of the device.

The aerosol units **11** are replaced after a predetermined number of operations by other units having fully charged reservoirs **12**, a reading of the counter **28** before each closure of the switch **26** insuring against a reduction of pressures within the reservoirs **12** below a predetermined minimum. The partially emptied units **11** are weighed to determine the approximate charge remaining in the reservoirs **12** and are then recharged through the valves **13**.

59,431. **STABILIZED SMALLPOX VACCINE, AND METHOD OF PREPARING SAME.** Geoffrey W. Rake and Helen P. Jones Rake, Millstone, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York. Filed Nov. 10, 1948. Published Nov. 28, 1950. Class 167—78. No drawing. 6 pages of specification.

A stabilized smallpox vaccine is obtained by incorporating a smallpox vaccinating substance in a medium essentially comprising an albumin-free normal fowl-egg fluid, or a medium comprising such fluid and glycerine. These media are more effective than glycerine alone in maintaining the viability of the smallpox vaccinating substance, and (unlike normal sera of human or animal origin as stabilizing media) never contain agents harmful to man and rarely (if ever) evoke sensitivity reactions. The albumin-free normal fowl-egg fluid may be the yolk of unembryonated fowl-eggs, the yolk or fluids (allantoic and amniotic) of normal young embryonated fowl-eggs, or mixtures of any of these. The smallpox vaccinating substance may be obtained by glycerine treatment of the vaccinating substance harvested from calves, or may be obtained from specifically-infected chorioallantoic membranes of developing fowl embryos.

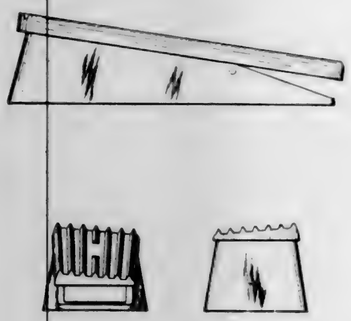
The following example is illustrative:

Smallpox vaccinating substance harvested from calves is ground in 5 volumes of 50% glycerine, and allowed to stand for several weeks; the glycerine and water are then separated from the vaccinating substance by centrifugation; the vaccinating substance is suspended in 10 volumes of a mixture of equal parts 50% glycerine and pooled yolk, allantoic fluid, and amniotic fluid for normal 6-day chick-embryos; and 0.5% phenol is added (the phenol being replaceable by crystalline penicillin G or streptomycin). The vaccine thus obtained is many times more stable than a vaccine similarly obtained using an equal volume of distilled water in place of the pooled egg fluids.

DESIGNS

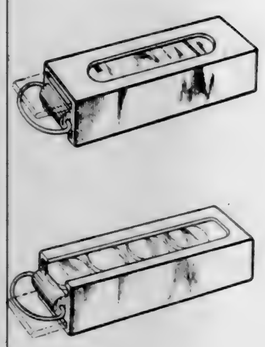
NOVEMBER 28, 1950

160,987
PEDAL CONTROL
Elbern H. Alkire, Easton, Pa.
Application December 5, 1949, Serial No. 6,419
Term of patent 14 years
(Cl. D14—6)



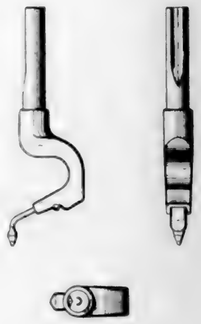
The ornamental design for a pedal control, as shown.

160,988
COMBINATION CHEWING GUM AND COIN DISPENSER
James W. Ament, Youngstown, Ohio
Application June 27, 1949, Serial No. 3,574
Term of patent 14 years
(Cl. D52—2)



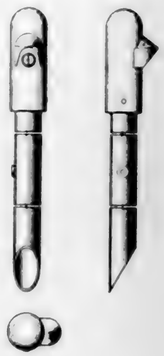
The ornamental design for a combination chewing gum and coin dispenser, as shown and described.

160,989
PHONOGRAPH NEEDLE
Lloyd J. Andres, Chicago, Ill., assignor to Permo, Incorporated, Chicago, Ill., a corporation of Illinois
Application January 19, 1950, Serial No. 7,353
Term of patent 14 years
(Cl. D26—14)



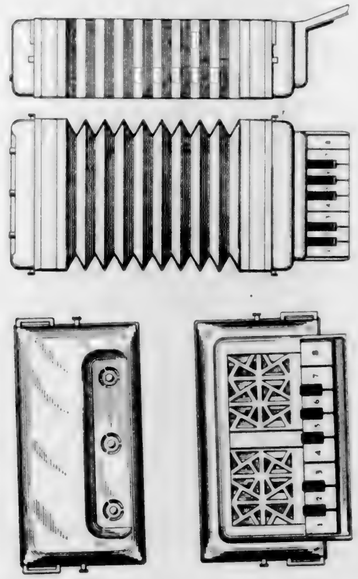
The ornamental design for a phonograph needle, substantially as shown.

160,990
KEY ACTUATED SWITCH POST
Boley A. Andrews, Kansas City, Kans., assignor to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application December 27, 1949, Serial No. 6,841
Term of patent 14 years
(Cl. D26—13)



The ornamental design for a key actuated switch post, as shown and described.

160,991
TOY ACCORDION
Nicholas T. Baldanza, Rutherford, N. J., assignor to Columbia Protektosite Co. Inc., Carlstadt, N. J., a corporation of New Jersey
Application July 24, 1948, Serial No. 147,740
Term of patent 7 years
(Cl. D56—1)

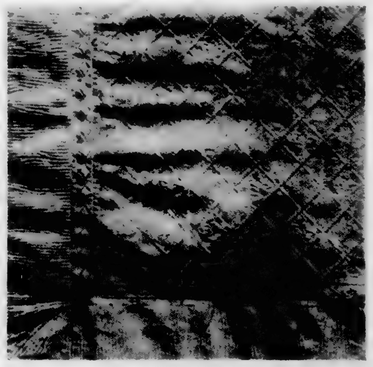


The ornamental design for a toy accordion, as shown and described.

160,992
LADY'S STOCKING OR SIMILAR ARTICLE
Irving Belaief, New York, N. Y., assignor to Dainty Maid Hosiery Co., Inc., New York, N. Y., a corporation of New York
Application April 14, 1950, Serial No. 9,212
Term of patent 7 years
(Cl. D47—7)

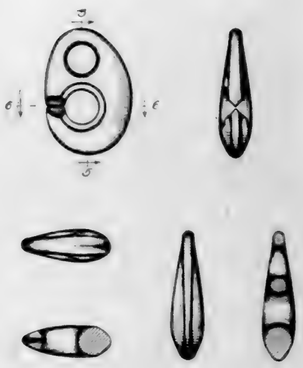
The ornamental design for a lady's stocking or similar article, as shown and described.

160,993
PAPER NAPKIN
Wilbur J. Boucher, Green Bay, Wis., assignor to Fort Howard Paper Company, Green Bay, Wis., a corporation of Wisconsin
Application December 24, 1949, Serial No. 6,834
Term of patent 14 years
(Cl. D59—2)



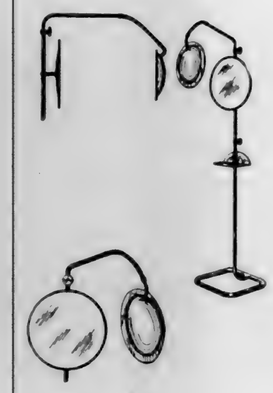
The ornamental design for a paper napkin, substantially as shown and described.

160,994
INTERLOCKING HOOK
Gordon T. Brummel, Chicago, Ill.
Application September 22, 1948, Serial No. 148,688
Term of patent 14 years
(Cl. D54—11)



The ornamental design for an interlocking hook, substantially as shown.

160,995
COMBINED FLEXIBLY CONNECTED FRONT AND REAR VIEW MIRRORS AND MOUNTING SUPPORT THEREFOR
Mary F. Busa, Lakewood, Ohio
Application June 17, 1948, Serial No. 147,026
Term of patent 14 years
(Cl. D86—10)

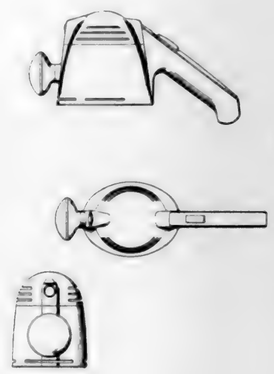


The ornamental design for combined flexibly connected front and rear view mirrors and mounting support therefor, as shown.

160,996
ATOMIZER
George Carleton, New York, N. Y.
Application April 20, 1949, Serial No. 2,165
Term of patent 7 years
(Cl. D83—1)

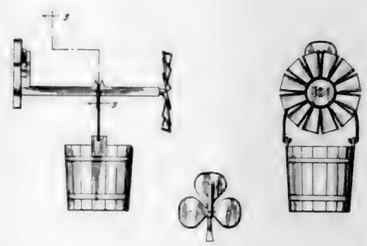
The ornamental design for an atomizer, as shown and described.

160,997
MOTOR CASING FOR A PORTABLE RUBBING MACHINE
Roy J. Champayne, Rockford, Ill.
Application December 8, 1949, Serial No. 6,500
Term of patent 14 years
(Cl. D9—2)



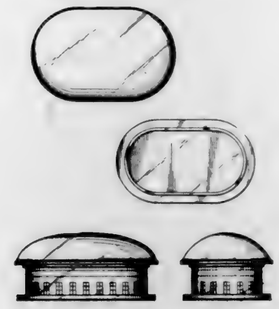
The ornamental design for a motor casing for a portable rubbing machine, substantially as shown.

160,998
COMBINED PLANT HOLDER AND BRACKET THEREFOR
Odilon Charette, Fitchburg, Mass.
Application September 16, 1949, Serial No. 5,026
Term of patent 14 years
(Cl. D35—3)



The ornamental design for a combined plant holder and bracket therefor, as shown.

160,999
NOVELTY COVERED BOX
Daryl Chase, Logan, Utah
Application August 22, 1949, Serial No. 4,641
Term of patent 7 years
(Cl. D58—11)

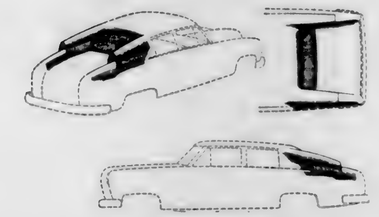


The ornamental design for a novelty covered box, substantially as shown.

161,000
AUTOMOBILE BODY
John J. Chika, Bloomfield Hills, Mich.
Application March 5, 1949, Serial No. 1,245
Term of patent 14 years
(Cl. D14—3)

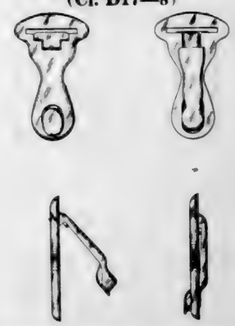
The ornamental design for an automobile body, substantially as shown and described.

161,001
AUTOMOBILE BODY
John J. Chika, Bloomfield Hills, Mich.
Application March 5, 1949, Serial No. 1,246
Term of patent 14 years
(Cl. D14—3)



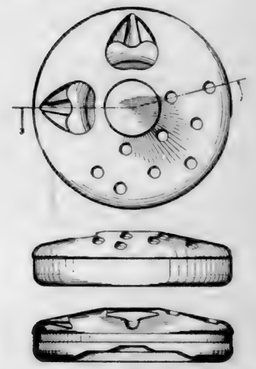
The ornamental design for an automobile body, substantially as shown and described.

161,002
GARTER GRIP
Fred S. Clark, New York, N. Y.
Application March 31, 1950, Serial No. 8,887
Term of patent 3½ years
(Cl. D17—8)



The ornamental design for a garter grip, substantially as shown.

161,003
COMBINATION CIGARETTE DISPENSER AND ASH TRAY
Myron H. Colman, Chicago, Ill.
Application November 26, 1949, Serial No. 6,275
Term of patent 3½ years
(Cl. D85—2)



The ornamental design for a combination cigarette dispenser and ash tray, substantially as shown.

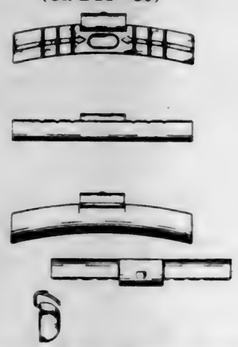
161,004
TABLE LOBSTER TOOL
Earl F. Cook, Marblehead, Mass.
Application April 3, 1947, Serial No. 138,139
Term of patent 7 years
(Cl. D44—4)

The ornamental design for a table lobster tool, as shown.

161,005
TIE SLIDE
Alexander Corpora, Los Angeles, Calif.
Application February 6, 1950, Serial No. 7,759
Term of patent 3½ years
(Cl. D17—10)

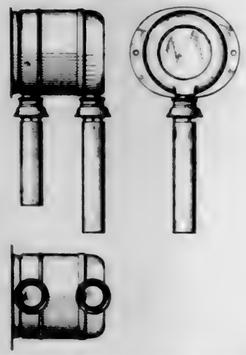
The ornamental design for a tie slide, substantially as shown.

161,006
WHEEL BALANCE WEIGHT
James Robert Dailey, Kokomo, Ind., assignor to Turner Manufacturing Company, Kokomo, Ind., a corporation of Indiana
Application June 17, 1948, Serial No. 147,018
Term of patent 3½ years
(Cl. D14—30)



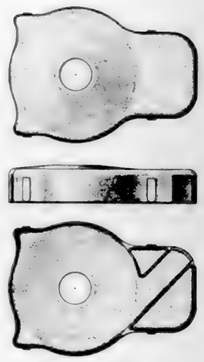
The ornamental design for a wheel balance weight, substantially as shown.

161,007
AUDIBLE SIGNAL DEVICE
Samuel M. Dover, Chicago, Ill.
Application August 23, 1949, Serial No. 4,650
Term of patent 14 years
(Cl. D72—1)



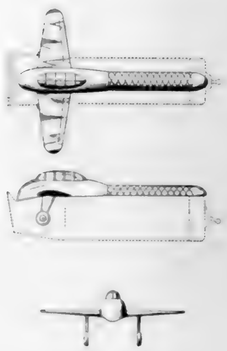
The ornamental design for an audible signal device, substantially as shown.

161,008
ROTARY MOWER HOUSING
Joel G. Doyle, Kansas City, Mo.
Application March 24, 1949, Serial No. 1,600
Term of patent 14 years
(Cl. D40—1)



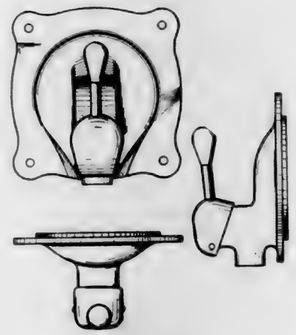
The ornamental design for a rotary mower housing, as shown.

161,009
HAIR CLIPPERS OR SIMILAR ARTICLE
Rudolph J. Enstrom and Oscar R. Sandstrom, Crystal Falls, Mich.
Application December 10, 1949, Serial No. 6,552
Term of patent 7 years
(Cl. D22—5)



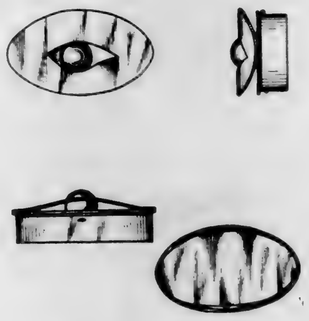
The ornamental design for hair clippers or similar article, as shown and described.

161,010
DISPENSING HEAD FOR FROZEN CONDIMENT
Charles Erickson and Erick Spellman, New York, N. Y.
Application January 7, 1950, Serial No. 7,062
Term of patent 3½ years
(Cl. D67—2)



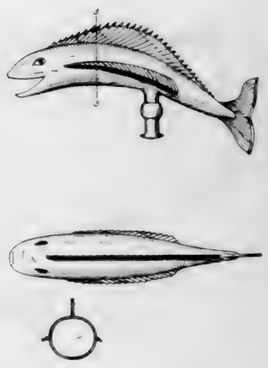
The ornamental design for a dispensing head for frozen condiment, as shown.

161,011
COMPACT OR SIMILAR ARTICLE
Paul E. Flato, New York, N. Y., assignor to Elizabeth Arden Sales Corporation, New York, N. Y.
Application June 5, 1950, Serial No. 10,348
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown.

161,012
ILLUMINABLE DISPLAY DEVICE
Leon H. Foster, Brooklyn, N. Y.
Application December 17, 1947, Serial No. 143,188
Term of patent 3½ years
(Cl. D14—18)

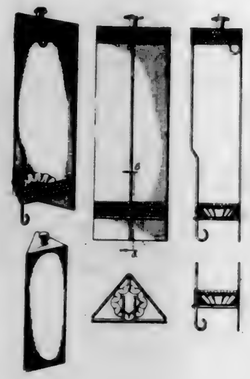


The ornamental design for an illuminable display device, substantially as shown and described.

161,013
COMBINED END CAP AND SLEEVE FOR SLAT FOR SCREENS
René Gardner, Elmhurst, and Hugo Bernzott, Niles, Ill., assignors to Da-Lite Screen Company, Inc., a corporation of Illinois
Application November 4, 1948, Serial No. 149,455
Term of patent 7 years
(Cl. D61—1)

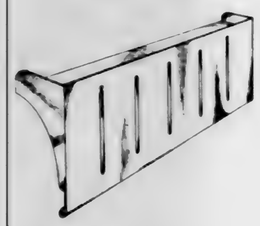
The ornamental design for a combined end cap and sleeve for slat for screens, as shown.

161,014
BRUSH CABINET
Samuel L. Gerson, Vineland, N. J.
Application July 18, 1949, Serial No. 3,976
Term of patent 3½ years
(Cl. D4—3)



The ornamental design for a brush cabinet, as shown.

161,015
CONDIMENT CONTAINER HOLDER
Erving R. Gillette, Twentynine Palms, Calif.
Application April 25, 1950, Serial No. 9,467
Term of patent 14 years
(Cl. D44—29)

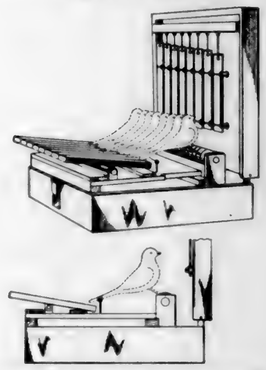


The ornamental design for a condiment container holder, as shown.

161,016
SLIP
Samuel Godfried, New York, N. Y., assignor to Godfried Underwear Co., Inc., New York, N. Y., a corporation
Application March 8, 1949, Serial No. 1,280
Term of patent 3½ years
(Cl. D3—26)

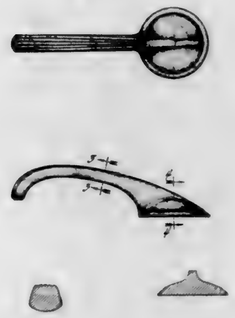
The ornamental design for a slip, substantially as shown.

161,017
MUSICAL TOY
Joseph F. Goetz, Dayton, Ohio
Application September 27, 1948, Serial No. 148,780
Term of patent 14 years
(Cl. D34—15)



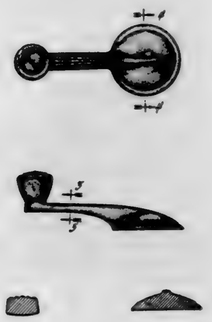
The ornamental design for a musical toy, substantially as shown and described.

161,018
AUTOMOTIVE VEHICLE INSIDE DOOR HANDLE
Albert J. Gonas, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 12, 1949, Serial No. 5,446
Term of patent 7 years
(Cl. D10—8)



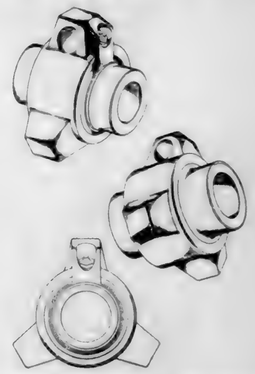
The ornamental design for an automotive vehicle inside door handle, substantially as shown.

161,019
AUTOMOTIVE VEHICLE WINDOW REGULATOR HANDLE
Albert J. Gonas, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 28, 1949, Serial No. 5,762
Term of patent 7 years
(Cl. D10—8)



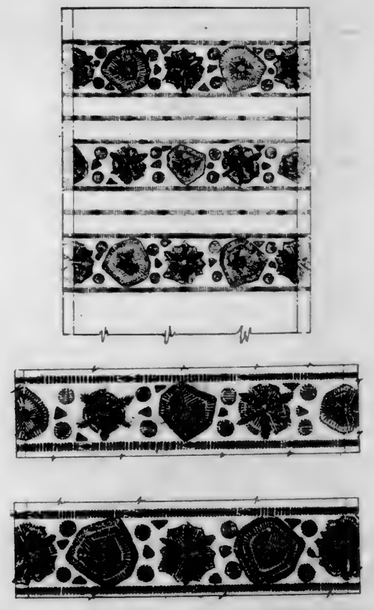
The ornamental design for an automotive vehicle window regulator handle, substantially as shown.

161,020
COUPLING FOR PIPES OR THE LIKE
Leland S. Hamer, Long Beach, Calif.
Application July 28, 1949, Serial No. 4,176
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a coupling for pipes or the like, as shown.

161,021
TEXTILE FABRIC OR SIMILAR FLAT SURFACE MATERIAL
William A. Harrell, Baldwin, N. Y., assignor to Fall River Curtain Co., Inc., New York, N. Y., a corporation of Massachusetts
Application January 3, 1949, Serial No. 36
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric or similar flat surface material, substantially as shown and described.

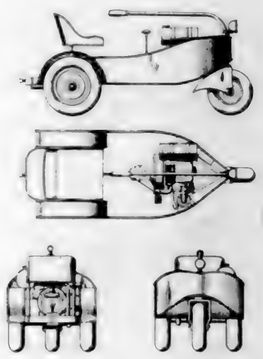
161,022
AUTOMOTIVE VEHICLE WINDOW REGULATOR HANDLE
Glenford M. Haviland, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 28, 1949, Serial No. 5,751
Term of patent 7 years
(Cl. D10—8)

The ornamental design for an automotive vehicle window regulator handle, substantially as shown.

161,023
CHRISTMAS TREE DECORATIVE ORNAMENT
Kurt W. Herman, Richmond Hill, N. Y.
Application October 25, 1948, Serial No. 149,272
Term of patent 14 years
(Cl. D29—1)

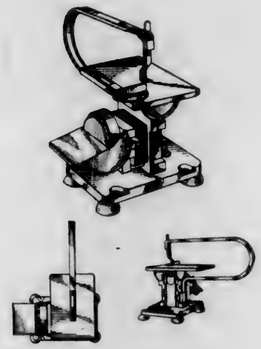
The ornamental design for a Christmas tree decorative ornament, as shown.

161,024
AUTOMOTIVE VEHICLE
Ivey Herpin, Dallas, Tex.
Application February 4, 1949, Serial No. 676
Term of patent 7 years
(Cl. D14—3)



The ornamental design for an automotive vehicle, as shown.

161,025
COMBINED ELECTRICAL JIG SAW AND SANDER
Elmer L. Hoffmann, Park Ridge, and Allen L. Atkins, Chicago, Ill.; said Hoffmann assignor to said Atkins
Application February 21, 1950, Serial No. 8,044
Term of patent 14 years
(Cl. D93—3)

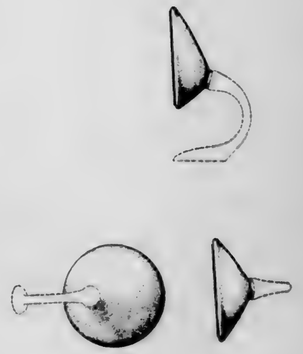


The ornamental design for a combined electrical jig saw and sander, substantially as shown.

161,026
COMBINATION LIGHT FIXTURE, PLANT HOLDER, AND THE LIKE
William L. Hollander, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application November 8, 1949, Serial No. 5,926
Term of patent 14 years
(Cl. D48—15)

The ornamental design for a combination light fixture, plant holder, and the like, as shown and described.

161,027
AUTOMOBILE REARVIEW MIRROR OR SIMILAR ARTICLE
George C. Knight, Detroit, Mich., assignor to George C. Knight Company, Oak Park, Mich., a corporation of Michigan
Application February 9, 1949, Serial No. 761
Term of patent 14 years
(Cl. D14—6)

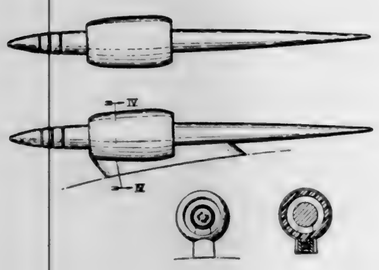


The ornamental design for an automobile rearview mirror or similar article, substantially as shown and described.

161,028
DISINFECTING GARBAGE CONTAINER
Eugene Levin, Dallas, Tex.
Application May 10, 1949, Serial No. 2,554
Term of patent 14 years
(Cl. D58—17)

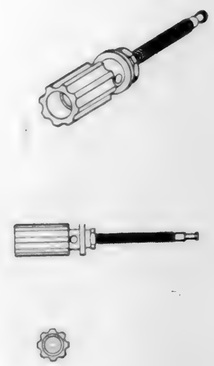
The ornamental design for a disinfecting garbage container, as shown.

161,029
HOOD ORNAMENT
Howard V. Lindbergh, Belleville, and Herbert F. Weissinger, Franklin, Mich., assignors to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada
Application March 18, 1950, Serial No. 8,614
Term of patent 14 years
(Cl. D14—18)



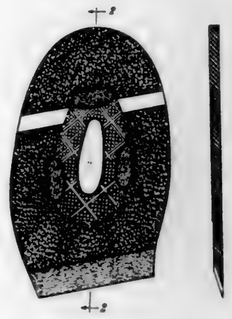
The ornamental design for a hood ornament, as shown.

161,030
ELECTRICAL BINDING-POST TERMINAL
Henry C. Littlejohn, Lexington, Mass., assignor to General Radio Company, Cambridge, Mass., a corporation of Massachusetts
Application July 14, 1949, Serial No. 3,918
Term of patent 14 years
(Cl. D26—1)



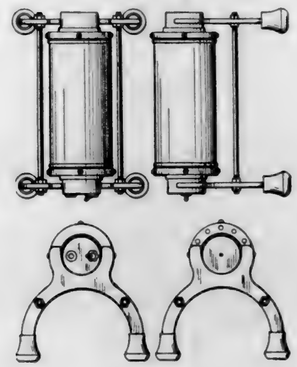
The ornamental design for an electrical binding-post terminal, substantially as shown.

161,031
SHOE SOLE
Bertram H. MacLeod, Lima, Ohio
Application June 19, 1950, Serial No. 10,623
Term of patent 14 years
(Cl. D7—5)



The ornamental design for a shoe sole, as shown.

161,032
FOOT MASSAGE OSCILLATOR
Carl Manas, New York, N. Y.
Application January 3, 1950, Serial No. 6,976
Term of patent 3½ years
(Cl. D83—1)

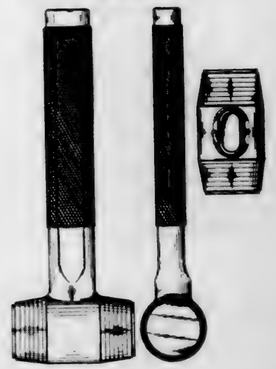


The ornamental design for a foot massage oscillator, as shown.

161,033
COMBINATION RING AND CIGARETTE HOLDER
Sam Marcus, Newark, N. J.
Application November 14, 1949, Serial No. 6,033
Term of patent 3½ years
(Cl. D85—8)

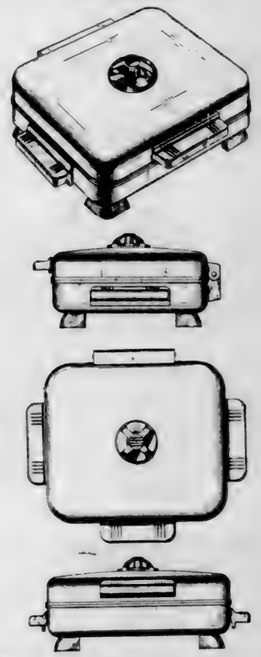
The ornamental design for a combination ring and cigarette holder substantially as shown.

161,034
HAMMER
Mads Marthinsen, Michigan City, Ind.
Application October 13, 1949, Serial No. 5,472
Term of patent 14 years
(Cl. D93—4)



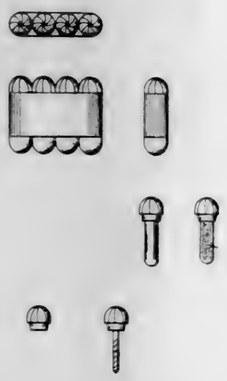
The ornamental design for a hammer, substantially as shown.

161,035
WAFFLE IRON OR SIMILAR ARTICLE
Donald F. McCarron, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application August 3, 1950, Serial No. 11,565
Term of patent 14 years
(Cl. D81—10)



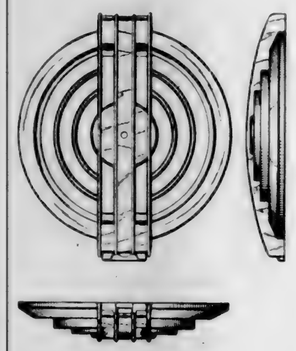
The ornamental design for a waffle iron or similar article, as shown.

161,036
MULTIPLE HOLDER FOR COSMETIC PREPARATIONS OR THE LIKE
Jan Norriss, New York, N. Y.
Application October 25, 1949, Serial No. 5,691
Term of patent 3½ years
(Cl. D86—10)



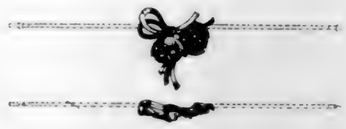
The ornamental design for a multiple holder for cosmetic preparations or the like, as shown and described.

161,037
VENTILATOR GRILLE
Raymond V. Pfautsch, Chicago, Ill., assignor to Ilg Electric Ventilating Co., Chicago, Ill., a corporation of Delaware
Application April 15, 1950, Serial No. 9,256
Term of patent 14 years
(Cl. D62—4)



The ornamental design for a ventilator grille, substantially as shown.

161,038
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,148
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or similar article, substantially as shown and described.

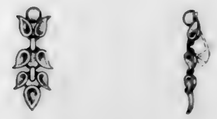
161,039
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,152
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article substantially as shown and described.

161,040
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,154
Term of patent 7 years
(Cl. D45—9)

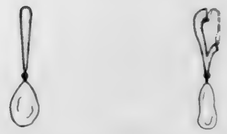
The ornamental design for an earring or similar article, substantially as shown.

161,041
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,155
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

161,042
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,156
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or similar article, substantially as shown.

161,043
SEPARABLE BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,181
Term of patent 7 years
(Cl. D45—19)

The ornamental design for a separable brooch or similar article, substantially as shown.

161,044
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,184
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown and described.

161,045
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 14, 1950, Serial No. 11,187
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,046
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,342
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,047
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,343
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,048
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,345
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,049
BRACELET OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,346
Term of patent 7 years
(Cl. D45—4)

The ornamental design for a bracelet or similar article, substantially as shown.

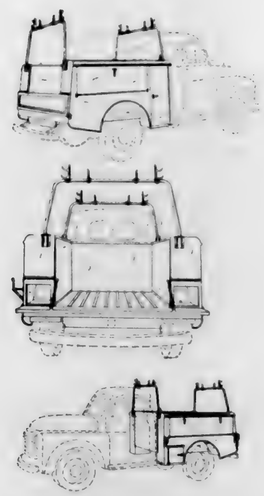
161,050
BRACELET OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 22, 1950, Serial No. 11,347
Term of patent 7 years
(Cl. D45—4)

The ornamental design for a bracelet or similar article, substantially as shown.

161,051
LIPSTICK HOLDER
Girolamo Piccoli, Croton-on-the-Hudson, N. Y., assignor to Fabergé, Inc., New York, N. Y., a corporation of New York
Application October 12, 1949, Serial No. 5,438
Term of patent 14 years
(Cl. D86—10)

The ornamental design for a lipstick holder, as shown.

161,052
AUTOMOBILE TRUCK
John J. Powers, St. Louis, Mo.
Application December 16, 1948, Serial No. 150,197
Term of patent 14 years
(Cl. D14—3)

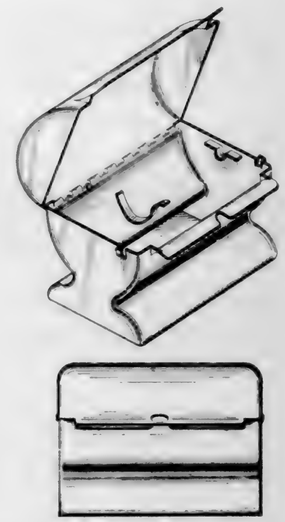


The ornamental design for an automobile truck, substantially as shown and described.

161,053
PLATE OR SIMILAR ARTICLE
George Rudd, Bedford, Ohio, assignor to The Walker China Company, Bedford, Ohio
Application March 24, 1950, Serial No. 8,739
Term of patent 14 years
(Cl. D44—15)

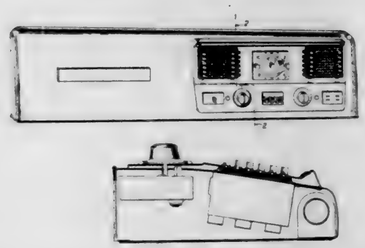
The ornamental design for a plate or similar article, substantially as shown and described.

161,054
PAPER DISPENSER
Stanley J. Rutka, Gheen, Minn.
Application May 21, 1949, Serial No. 2,801
Term of patent 14 years
(Cl. D4—3)



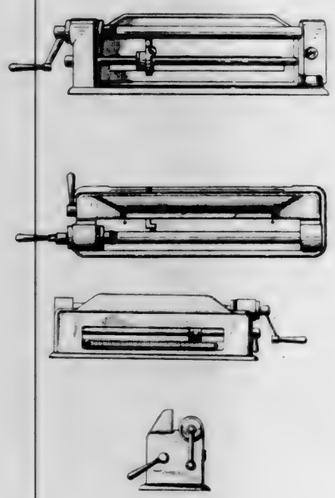
The ornamental design for a paper dispenser, as shown.

161,055
ELECTRIC RANGE BACKSPLASHER
Ray C. Sandin, Oak Park, Ill., assignor to Hotpoint Inc., a corporation of New York
Application December 7, 1949, Serial No. 6,489
Term of patent 14 years
(Cl. D81—25)



The ornamental design for an electric range backsplasher, as shown.

161,056
MACHINE FOR CUTTING PAPER OR THE LIKE
William Sargent, London, England
Application June 17, 1948, Serial No. 147,040
Term of patent 14 years
(Cl. D55—1)

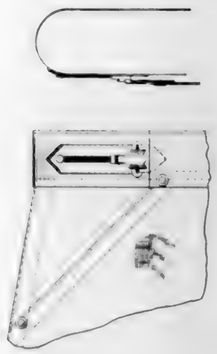


The ornamental design for a machine for cutting paper or the like, as shown.

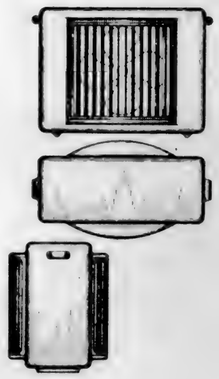
161,057
LADY'S DUNGAREES
Minnie M. Schwab, Birmingham, Ala., assignor to Phillips-Lester Manufacturing Company, Inc., a corporation of Alabama
Application February 6, 1950, Serial No. 7,754
Term of patent 14 years
(Cl. D3—17)

The ornamental design for lady's dungarees, as shown.

161,057—Continued

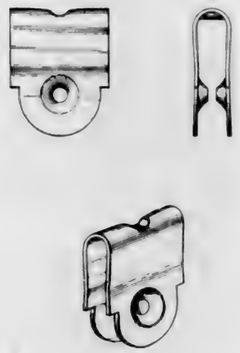


161,058
AIR CIRCULATOR
Ford Se Bastian, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 10, 1949, Serial No. 6,557
Term of patent 3½ years
(Cl. D62—4)



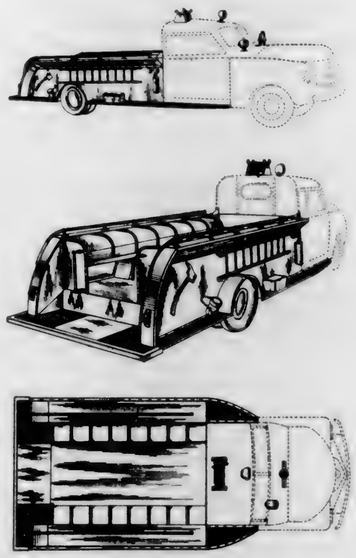
The ornamental design for an air circulator, as shown and described.

161,059
KEY RETAINER
Jack R. Shevin and David T. Shane, Chicago, Ill.
Application January 4, 1950, Serial No. 6,994
Term of patent 3½ years
(Cl. D17—14)



The ornamental design for a key retainer, as shown.

161,060
MOTOR VEHICLE OR SIMILAR ARTICLE
Jack J. Skelley, Butte, Mont.
Application September 8, 1950, Serial No. 12,112
Term of patent 14 years
(Cl. D14—3)

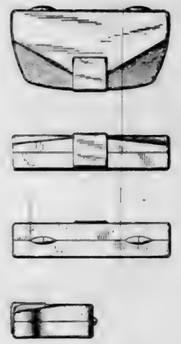


The ornamental design for a motor vehicle or similar article, as shown and described.

161,061
HOOD ORNAMENT OR SIMILAR ARTICLE FOR MOTOR VEHICLES
John Sneed, Detroit, Mich., assignor to Willis B. Anderson and Emily A. Anderson, Detroit, Mich.
Application June 8, 1949, Serial No. 3,129
Term of patent 3½ years
(Cl. D14—18)

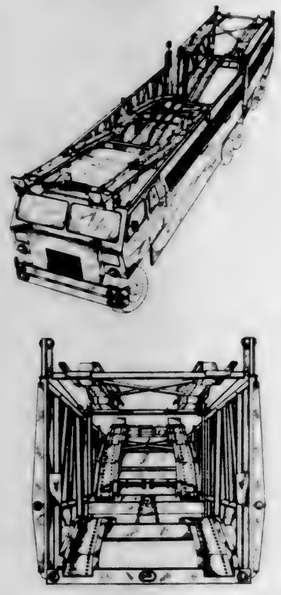
The ornamental design for a hood ornament or similar article for motor vehicles, substantially as shown and described.

161,062
BOX
Ted R. Stacey, Chicago, Ill., assignor to Tote-brush, Incorporated, Chicago, Ill., a corporation of Illinois
Application October 7, 1949, Serial No. 5,344
Term of patent 7 years
(Cl. D58—12)



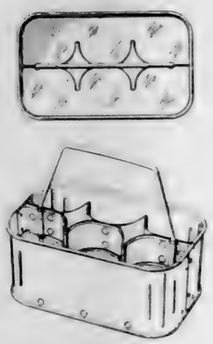
The ornamental design for a box, substantially as shown.

161,063
COMBINED AUTOMOBILE TRANSPORT TRUCK AND TRAILER
Clifford Brooks Stevens, Milwaukee, Wis.
Application September 8, 1950, Serial No. 12,111
Term of patent 14 years
(Cl. D14—3)



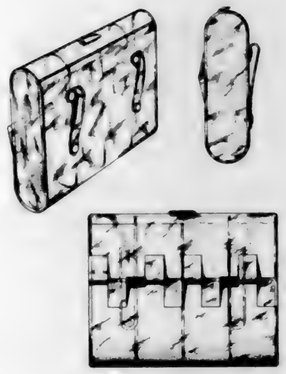
The ornamental design for a combined automobile transport truck and trailer, substantially as shown and described.

161,064
BOTTLE HOLDING TRAY
Ralph W. Stevenson, Grand Rapids, Mich., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application November 26, 1949, Serial No. 6,280
Term of patent 14 years
(Cl. D58—5)



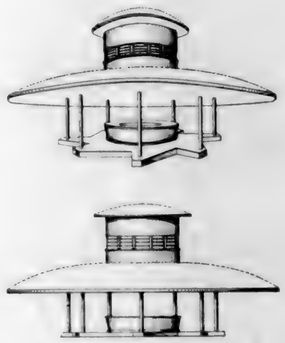
The ornamental design for a bottle holding tray, substantially as shown.

161,065
FISH LURE CARRIER
Lester B. Stratman, Santa Monica, and Frank W. Newton, Los Angeles, Calif.
Application October 1, 1949, Serial No. 5,254
Term of patent 7 years
(Cl. D31—4)



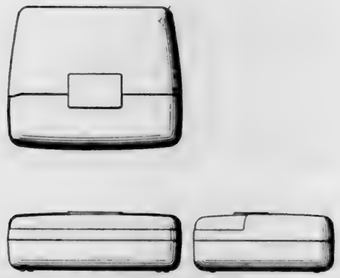
The ornamental design for a fish lure carrier, substantially as shown.

161,066
AUTOMOBILE SERVICE STATION
John J. Sullivan, Norfolk, Va.
Application November 16, 1949, Serial No. 6,072
Term of patent 14 years
(Cl. D13—1)



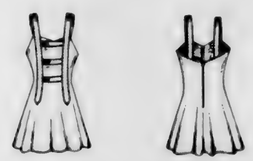
The ornamental design for an automobile service station, as shown and described.

161,067
BOX FOR PORTABLE TOOLS AND ACCESSORIES
Ernest F. Thomson, Tuckahoe, N. Y., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application December 23, 1949, Serial No. 6,809
Term of patent 7 years
(Cl. D58—11)



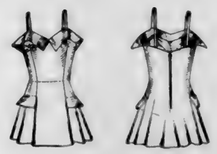
The ornamental design for a box for portable tools and accessories, substantially as shown.

161,068
BATHING SUIT
Frank Torok, New York, N. Y., assignor to Artistic Foundations, Inc, New York, N. Y.
Application September 16, 1949, Serial No. 5,031
Term of patent 3½ years
(Cl. D3—17)



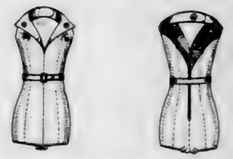
The ornamental design for a bathing suit, as shown.

161,069
BATHING SUIT
Frank Torok, New York, N. Y., assignor to Artistic Foundations, Inc, New York, N. Y.
Application September 16, 1949, Serial No. 5,033
Term of patent 3½ years
(Cl. D3—17)



The ornamental design for a bathing suit, as shown.

161,070
BATHING SUIT
Frank Torok, New York, N. Y., assignor to Artistic Foundations, Inc, New York, N. Y.
Application September 16, 1949, Serial No. 5,034
Term of patent 3½ years
(Cl. D3—17)

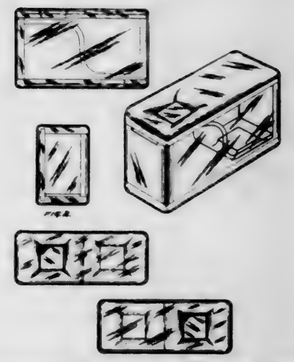


The ornamental design for a bathing suit, as shown.

161,071
COMBINED BOBBY PIN AND PERFUME HOLDER
Joan Weiss, New York, N. Y.
Application April 27, 1950, Serial No. 9,508
Term of patent 14 years
(Cl. D86—10)

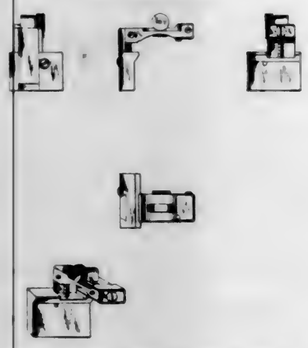
The ornamental design for a combined bobby pin and perfume holder, substantially as shown and described.

161,072
STRIP DISPENSER
Stevenson White, Owings Mills, Md.
Application May 1, 1948, Serial No. 146,109
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a strip dispenser, substantially as shown.

161,073
GUN SIGHT
Harvey A. Williams, Davison, Mich.
Application April 8, 1949, Serial No. 1,867
Term of patent 14 years
(Cl. D30—1)



The ornamental design for a gun sight, as shown.

161,074
VEST CHAIN OR SIMILAR ARTICLE
John W. Wolfenden, Attleboro, Mass.
Application January 6, 1950, Serial No. 7,049
Term of patent 3½ years
(Cl. D45—16)

The ornamental design for a vest chain or similar article, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A-B-C Packing Machine Corporation, Quincy, Ill. Automatic machines for sealing. Serial No. 536,479, Nov. 28. Class 23.

Abbott Laboratories, North Chicago, Ill. Multiple vitamin tablets. Serial No. 589,544, Nov. 28. Class 18.

Abilene Alfalfa Sales Company, Abilene, Kans. Stock feed. Serial No. 563,231, Nov. 28. Class 46.

Abramowitz, Nathan, Brooklyn, N. Y. Food for tropical fish. Serial No. 590,727, Nov. 28. Class 46.

Acme White Lead and Color Works, Detroit, Mich. Paint. Serial No. 572,145, Nov. 28. Class 16.

Ac-Re Chemical Company: *See*—
Lewenstein, M. J.

Agricultural Broadcasting Company, Chicago, Ill. Vocal and instrumental musical entertainment services. Serial No. 585,694, Nov. 28. Class 107.

Allendale Garment Co., Inc., Allendale, S. C. Cotton dresses for women. Serial No. 594,423, Nov. 28. Class 39.

Altone Studio: *See*—
Emmert, Ethel P.

Alvin Corporation, The, Providence, R. I. Sterling silver flatware, hollowware, and table cutlery. Serial No. 601,086, Nov. 28. Class 28.

American Air Filter Company, Inc., Louisville, Ky. Mechanical viscous-impingement ventilating air filters. Serial No. 587,002, Nov. 28. Class 31.

American Floor Surfacing Machine Company, The, Toledo, Ohio. Sandpaper, abrasive paper, abrasive cloth, etc. Serial No. 585,778, Nov. 28. Class 4.

American Hard Rubber Company, New York, N. Y. Vulcanized or unvulcanized compound. Serial No. 570,465, Nov. 28. Class 1.

American-La France-Foamite Corporation, Elmira, N. Y. Engineering service against fire. Serial Nos. 576,302–4, Nov. 28. Class 103.

American Lava Corporation, Chattanooga, Tenn. Fired ceramic shapes. Serial No. 550,643, Nov. 28. Class 30.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine. Serial No. 599,803, Nov. 28. Class 7.

American Safety Razor Corporation, Brooklyn, N. Y. Shaving brushes. Serial No. 590,248, Nov. 28. Class 29.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Nails. Serial No. 594,825, Nov. 28. Class 13.

American Tobacco Company, The, New York, N. Y. Plug chewing tobacco. Serial No. 595,299, Nov. 28. Class 17.

American Tobacco Company, The, New York, N. Y. Twist tobacco. Serial No. 595,486, Nov. 28. Class 17.

American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Serial No. 595,813, Nov. 28. Class 17.

Anchor Plastics Co., Inc.: *See*—
Fisch, Richard A.

"Anchor Plastics Company, Inc.": *See*—
Fisch, Richard A.

Ansul Chemical Company, Marinette, Wis. Lubricating oil. Serial No. 578,186, Nov. 28. Class 15.

Apkarian, T., & Sons, Reedley, Calif. Fresh deciduous fruits, fresh grapes and fresh vegetables. Serial No. 590,791, Nov. 28. Class 46.

Arkansas Company, Inc., Newark, N. Y. Esterified amino compounds. Serial No. 587,523, Nov. 28. Class 6.

Armour and Company, Chicago, Ill. Butter. Serial No. 533,834, Nov. 28. Class 46.

Armstrong Cork Company, Lancaster, Pa. Furniture rests and cups; etc. Serial No. 549,217, Nov. 28. Class 13.

Armstrong Paint & Varnish Works, Chicago, Ill. Quick drying paint enamels. Serial No. 541,385, Nov. 28. Class 16.

Associated Bag and Apron Company: *See*—
Baylis Sanitary Supply Co.

Associated Merchandising Corporation, The, New York, N. Y. Girls' coats, suits, dresses, etc. Serial No. 594,685, Nov. 28. Class 39.

Automatic Devices, Inc., St. Louis, Mo. Scaffolds, roller units, and roller stands, etc. Serial No. 544,315, Nov. 28. Class 50.

Autoyre Company, Incorporated, The, Oakville, Conn. Towel bars and towel racks. Serial No. 544,139, Nov. 28. Class 13.

Baar, Rudolf, Inc., New York, N. Y. Woolen piece goods. Serial No. 580,454, Nov. 28. Class 42.

Barry, R. G., Corp., Columbus, Ohio. Bandanas or turbans. Serial No. 591,663, Nov. 28. Class 39.

Bartmann & Bixer, Inc., New York, N. Y. Window curtains. Serial No. 587,006, Nov. 28. Class 42.

Bates, C. J., & Son, Chester, Conn. Crochet hooks and knitting needles. Serial No. 583,314, Nov. 28. Class 40.

Batger & Company Limited, London, England. Decorative party favors. Serial No. 564,804, Nov. 28. Class 22.

Baylis Sanitary Supply Co., doing business as Baylis Sanitary Supply Co., and as Associated Bag and Apron Company, Chicago, Ill. Laundry dampening bags. Serial No. 592,412, Nov. 28. Class 2.

Beacon Products Corporation, Newton Highlands, Mass. Dishes and tumblers. Serial No. 576,952, Nov. 28. Class 2.

Bearfoot Sole Company, Inc., The, Boston, Mass. Soles and heels. Serial Nos. 596,550–3, Nov. 28. Class 39.

Belch, Paul F., Co., Bloomington, Ill. Candy. Serial No. 583,981, Nov. 28. Class 46.

Beir, Arthur, & Co., Inc., New York, N. Y. Textile piece goods. Serial No. 569,665, Nov. 28. Class 42.

Bemis Bro. Bag Company, St. Louis, Mo. Textile bags. Serial No. 581,855, Nov. 28. Class 2.

Bethlehem Silk Company, The, New York, N. Y. Ribbons of velvet, taffeta, grosgrain moire, etc. Serial No. 584,607, Nov. 28. Class 42.

Bewley Mills, Fort Worth, Tex. Stock and poultry feeds. Serial No. 567,130, Nov. 28. Class 46.

Bick & Co., Inc., Reading, Pa. Chemical dyes. Serial No. 592,976, Nov. 28. Class 6.

Big Star Mfg. Co., The: *See*—
Fowler, John.

Binney & Smith Company, New York, N. Y. Paint. Serial No. 555,049, Nov. 28. Class 16.

Bitty Frocks, Philadelphia, Pa. Infants' overalls. Serial No. 582,071, Nov. 28. Class 39.

Blume Knitwear, Inc., New York, N. Y. Knitwear. Serial No. 558,207, Nov. 28. Class 39.

Boggs, H. D., Company, assignor to H. D. Boggs Company, Ltd., Omaha, Nebr. Laminated pipe. Serial No. 570,091, Nov. 28. Class 13.

Boggs, H. D., Company, Ltd., assignee: *See*—
Boggs, H. D., Company.

Borcherdt Malt Extract Company, Chicago, Ill. Medicine comprising a combination of mathensamine, sodium benzoate, etc. Serial No. 592,866, Nov. 28. Class 18.

Boyle, John, & Company, Incorporated, New York, N. Y. Awning fabrics. Serial No. 587,240, Nov. 28. Class 42.

Brach, E. J., & Sons, Chicago, Ill. Candy. Serial No. 561,223, Nov. 28. Class 46.

Bradstone Rubber Company, Woodbine, N. J. Rubber heels. Serial No. 595,355, Nov. 28. Class 39.

Bridal Originals, St. Louis, Mo. Women's and misses' wedding gowns and dresses. Serial No. 592,247, Nov. 28. Class 39.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antispasmodic. Serial No. 570,857, Nov. 28. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin chewing troches. Serial No. 579,855, Nov. 28. Class 18.

Brown, H. H., Shoe Co., Inc., Worcester, Mass. Men's and boy's shoes. Serial No. 580,121, Nov. 28. Class 39.

Buffalo Products, Inc., Buffalo, N. Y. Rubber forms for forming holes in concrete ceilings, walls and floors. Serial No. 587,010, Nov. 28. Class 12.

Burma Cravats, Ltd., New York, N. Y. Neckties. Serial No. 591,610, Nov. 28. Class 39.

Butler Brothers, Chicago, Ill. Women's T Shirts, robes, aprons, etc. Serial No. 566,860, Nov. 28. Class 39.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black as a plasticizer. Serial No. 592,191, Nov. 28. Class 6.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black as a pigment in inks. Serial No. 592,301, Nov. 28. Class 11.

Cadwell Corporation, The, Beverly Hills, Calif. Slide projector. Serial No. 596,326, Nov. 28. Class 26.

Calavo Growers of California, Los Angeles, Calif. Avocado oil used in the preparation of cosmetics, perfumes, rouges, etc. Serial No. 560,966, Nov. 28. Class 51.

Carter Products, Inc., New York, N. Y. Fluid product for use in shaving and as a beard softener. Serial No. 584,969, Nov. 28. Class 51.

Charleston Milling Company, Charleston, W. Va. Feed for live stock. Serial No. 587,533, Nov. 28. Class 46.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Photomechanical and photoengraving supplies. Serial No. 576,519, Nov. 28. Class 11.

Chicago Printed String Company, Chicago, Ill. Crimped ribbon-like tape. Serial No. 600,031, Nov. 28. Class 7.

Clarvan Corporation, Milwaukee, Wis. Mittens. Serial No. 595,762, Nov. 28. Class 39.

Cleo Razor Blade Co.: *See*—
Lesley, Jerry P.

Coast Manufacturing & Supply Company, Livermore, Calif. Coated and uncoated fabrics. Serial No. 585,014, Nov. 28. Class 42.

Coffman, R. G., Co. Inc., The, Orlando, Fla. Railings, porch posts, brackets, etc. Serial No. 579,481, Nov. 28. Class 12.

Colden Manufacturing Co., Elizabeth, N. J. Mattresses. Serial No. 592,204, Nov. 28. Class 32.

Colonial Mills, Inc., New York, N. Y., now by change of name Robbins Mills, Inc. Piece goods. Serial No. 579,265, Nov. 28. Class 42.

Consolidated Leather Mfg. Co., Inc., New York, N. Y. Billfolds. Serial No. 598,708, Nov. 28. Class 3.
Continental Mills, Inc., Philadelphia, Pa. Men's, women's, boys', etc., overcoats, topcoats, coats, etc. Serial No. 561,376, Nov. 28. Class 39.
Cooper, Leo M., doing business as Puritan Uniform Company, New York, N. Y. Nurses' uniforms and uniform dresses. Serial No. 590,492, Nov. 28. Class 39.
Corette, Inc., New York, N. Y. Slips. Serial No. 594,364, Nov. 28. Class 39.
Cortrim Lumber Company, *See*—
Spiegel, Ralph G.
Cramer Chemical Co., The, Gardner, Kans. Anti-slipping preparation. Serial No. 589,560, Nov. 28. Class 6.
Cretors, C., & Co., Chicago, Ill. Apparatus for measuring the popping volume of popping corn. Serial No. 592,016, Nov. 28. Class 26.
Cross Umbrella Frames, Inc., Richmond Hill, N. Y. Umbrellas. Serial No. 592,196, Nov. 28. Class 41.
Cudahy Packing Company, The, Chicago, Ill. Soap. Serial No. 558,350, Nov. 28. Class 52.
Cyclops Manufacturing Co.: *See*—
Cyclops Products Mfg. Co.
Cyclops Products Mfg. Co., also doing business as Cyclops Manufacturing Co., Detroit, Mich. Wax cleaner and polish for varnish, enamel and lacquer surfaces. Serial No. 562,911, Nov. 28. Class 4.
Dale Products Corporation, New York, N. Y. Expandable watch bands. Serial No. 591,772, Nov. 28. Class 28.
Daveco, Inc., New York, N. Y. T-shirts. Serial No. 586,628, Nov. 28. Class 39.
Daybrook Hydraulic Corporation, The, Bowling Green, Ohio. Hydraulic lift mechanisms for dump trucks and the like. Serial No. 570,482, Nov. 28. Class 23.
Dellwood Dairy Co., Inc., Yonkers, N. Y. Fresh milk, fresh cream, buttermilk, chocolate flavored milk, etc. Serial No. 557,508, Nov. 28. Class 46.
Demoss, David D., doing business under the name and style of Moss Hosiery Company, Burlington, N. C. Women's hosiery. Serial No. 591,561, Nov. 28. Class 39.
Denkert, M., & Company, Johnstown, N. Y. Baseball gloves and mitts. Serial No. 587,102, Nov. 28. Class 22.
Devoe & Raynolds Company, Inc., New York, N. Y. Varnish. Serial No. 582,349, Nov. 28. Class 16.
Dickinson, Becton, and Company, East Rutherford, N. J. Hypodermic syringes, hypodermic needles, clinical thermometers, etc. Serial No. 538,857, Nov. 28. Class 44.
Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh asparagus, fresh potatoes, fresh grapes, etc. Serial No. 586,740, Nov. 28. Class 46.
Donovan Enterprises, Incorporated, Saugatuck, Conn. Diaper coverings. Serial No. 580,052, Nov. 28. Class 39.
Donovan Enterprises, Incorporated, Saugatuck, Conn. Diaper coverings. Serial No. 583,526, Nov. 28. Class 39.
Dor-Cab Corporation, Philadelphia, Pa. Storage and utility cabinets. Serial No. 567,908, Nov. 28. Class 32.
Dorn, Ernst W., doing business as Ernst W. Dorn Co., Los Angeles, Calif. Silk screen process paint and paint thinner. Serial No. 583,147, Nov. 28. Class 16.
Dorn, Ernst W., Co.: *See*—
Dorn, Ernst W.
Double Eagle Bottling Co., Cleveland, Ohio. Ginger beer. Serial No. 596,720, Nov. 28. Class 45.
Duchess Royal, Inc., assignor to Rain Coquette by Duchess Royal, Inc., New York, N. Y. Men's and women's raincoats. Serial No. 590,973, Nov. 28. Class 39.
Dumbrow, Nat J., Company, Inc., New York, N. Y. Ladies' coats. Serial No. 579,971, Nov. 28. Class 39.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Stearato chromic chloride. Serial No. 592,315, Nov. 28. Class 6.
Dura-Bond, Incorporated, Ann Arbor, Mich. Brake shoe bonding kit. Serial No. 532,584, Nov. 28. Class 23.
Durma Products Co., Minneapolis, Minn. Preparation to be applied to the gums of teething babies. Serial No. 592,483, Nov. 28. Class 18.
Eagle Electronics, Inc., New York, N. Y. Television receiving sets. Serial No. 576,962, Nov. 28. Class 21.
Eastern Gas and Fuel Associates, Boston, Mass. Coal. Serial No. 570,291, Nov. 28. Class 1.
Eastern States Farmers' Exchange, West Springfield, Mass. Roll roofing, asphalt shingles, asphalt and fibre cements, etc. Serial No. 551,261, Nov. 28. Class 12.
El Chico Cafe, Dallas, Tex. Enchilada sauce and hot sauce. Serial No. 587,432, Nov. 28. Class 46.
Ellmore Silver Co., Inc., The, Meriden, Conn. Sterling silver flatware and hollowware. Serial No. 596,489, Nov. 28. Class 28.
Elting Brothers, Inc., New York, N. Y. Hosiery. Serial No. 574,825, Nov. 28. Class 39.
Emmert, Ethel P., doing business under the name and style of Altone Studio, Pasadena, Calif. Bisque flower molds. Serial No. 586,083, Nov. 28. Class 30.
Empire Shield Company, Inc., New York, N. Y. Baby pants. Serial No. 590,499, Nov. 28. Class 39.
Essex Rubber Company, Trenton, N. J. Rubber soles. Serial No. 593,221, Nov. 28. Class 39.
Essex Wire Corporation, Detroit, Mich. Insulated electric wires and insulated electric cables. Serial No. 555,091, Nov. 28. Class 21.
Exelento Medicine Company, Atlanta, Ga. Hair pomade, pressing oil, cream deodorant, and bleach cream. Serial No. 586,239, Nov. 28. Class 51.
Fabergé, Inc., New York, N. Y. Cylindrical, purse-type perfume dispensing vial. Serial No. 564,994, Nov. 28. Class 2.
Famous French, Shreveport, La. Salad dressing and remoulade sauce. Serial No. 546,843, Nov. 28. Class 46.
Faultless Caster Corporation, Evansville, Ind. Casters for furniture and the like. Serial No. 549,917, Nov. 28. Class 13.
Federated Department Stores, Inc., Cincinnati, Ohio. Trunks. Serial No. 598,905, Nov. 28. Class 3.
Feinman, Grace, New York, N. Y. Children's pajamas. Serial No. 583,251, Nov. 28. Class 39.
Ferguson, Edgar A., doing business as Edgar A. Ferguson, Pharmaceutical Products of Research, Brooklyn, N. Y. Digitalis preparation. Serial No. 589,962, Nov. 28. Class 18.
Ferguson, Edgar A., doing business as Edgar A. Ferguson, Pharmaceutical Products of Research, Brooklyn, N. Y. Preparation for alleviating the paroxysms of asthma. Serial No. 589,963, Nov. 28. Class 18.
Ferguson, Edgar A., Pharmaceutical Products of Research: *See*—
Ferguson, Edgar A.
Fickett-Brown Manufacturing Company, Atlanta, Ga. Mops, mop heads, brooms. Serial No. 576,910, Nov. 28. Class 29.
Finkel Outdoor Products, Inc., New York, N. Y. Umbrellas. Serial No. 599,160, Nov. 28. Class 41.
Fisch, Richard A., doing business as "Anchor Plastics Company, Inc.," assignor to Anchor Plastics Co., Inc., New York, N. Y. Narrow belting, stripping, tape, and tubing. Serial No. 517,841, Nov. 28. Class 1.
Fletcher, Sol, Inc., New York, N. Y. Boys' suits and coats. Serial No. 591,672, Nov. 28. Class 39.
Flexentrik Co., San Francisco, Calif. Oscillating couplings. Serial No. 595,372, Nov. 28. Class 23.
Forman Insulating Screw Corp., New York, N. Y. Insulating screws and rivets. Serial No. 593,340, Nov. 28. Class 13.
Fowler, John, doing business as The Big Star Mfg. Co., Kansas City, Kans. Apparatus in the nature of a shallow receptacle having a grid thereon for scraping shoes. Serial No. 593,480, Nov. 28. Class 13.
Frank-Lax Co.: *See*—
Gast, Francis J.
Freeman, Harry, doing business as Vitavim Company, New Bedford, Mass. Ointment for the treatment of burns. Serial No. 585,223, Nov. 28. Class 18.
Garratt-Callahan Co. of Illinois, Chicago, Ill. Soot and carbon scale removing chemical preparation. Serial No. 531,659, Nov. 28. Class 52.
Garratt-Callahan Co. of Illinois, Chicago, Ill. Boiler cleaning compounds. Serial No. 531,660, Nov. 28. Class 52.
Garratt-Callahan Co. of Illinois, Chicago, Ill. Rust eradicator preparation. Serial No. 531,661, Nov. 28. Class 52.
Garton Toy Company, The, Sheboygan, Wis. Children's pedal cars. Serial No. 588,572, Nov. 28. Class 22.
Gast, Francis J., doing business as Frank-Lax Co., Minneapolis, Minn. Laxative. Serial No. 579,493, Nov. 28. Class 18.
General Ceramics and Steatite Corporation, Keasbey, N. J. Exhaust fans, heat exchangers, piping, etc. Serial No. 509,088, Nov. 28. Class 34.
Genesee Brewing Co., Inc., The, Rochester, N. Y. Beer and ale. Serial No. 574,832, Nov. 28. Class 48.
Goerke, R. J., Co., Elizabeth, N. J. Men's dress shirts, sport shirts, T-shirts, etc. Serial No. 575,803, Nov. 28. Class 39.
Goldinger, Harry, Textile Corporation, Los Angeles, Calif. Fabrics. Serial No. 571,527, Nov. 28. Class 42.
Goodall-Sanford, Inc., Sanford, Maine. Fabrics. Serial No. 572,561, Nov. 28. Class 42.
Goodstein Bros. & Co. Inc., New York, N. Y. Men's and boys' topcoats and overcoats. Serial No. 575,346, Nov. 28. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. Serial No. 595,891, Nov. 28. Class 39.
Great Atlantic and Pacific Tea Company, The, New York, N. Y. Spices; canned corn; canned beans with pork, etc. Serial No. 551,708, Nov. 28. Class 46.
Greiser, Lewis C., Cincinnati, Ohio. Non-alcoholic, noncereal, maltless beverages. Serial No. 572,971, Nov. 28. Class 45.
Gump, B. F., Co., Chicago, Ill. Industrial blending and mixing machines. Serial No. 570,776, Nov. 28. Class 23.
Hall, Thomas J., Indianapolis, Ind. Fishing tackle. Serial No. 588,297, Nov. 28. Class 22.
Hamilton Manufacturing Company, Two Rivers, Wis., and Rahway, N. J. Physicians' and surgeons' combination examining and treatment chair-tables, etc. Serial No. 544,344, Nov. 28. Class 44.
Hammond Iron Works, Warren, Pa. Storage tanks. Serial No. 591,235, Nov. 28. Class 2.
Hammond Machinery Builders, Inc., Kalamazoo, Mich. Machines for machining printing plates, stereotype plates and the like. Serial No. 563,465, Nov. 28. Class 23.

Hartlett, M., Co.: *See*—
Hartlett, Merlin A.
Hartlett, Merlin A., doing business as M. Hartlett Co., Woodstock, Ill. Deodorant and non-perspirant for personal use. Serial No. 575,142, Nov. 28. Class 51.
Hat Corporation of America, Norwalk, Conn. Women's hats. Serial No. 591,421, Nov. 28. Class 39.
Heller Brothers Company, Newark, N. J. Files. Serial No. 595,955, Nov. 28. Class 23.
Henry, M. A., Co., Inc., New York, N. Y. Cowboy suits, cowgirl suits, and Indian suits for boys and girls. Serial No. 515,877, Nov. 28. Class 39.
Hercules Company, The, Jersey City, N. J. General ship maintenance. Serial No. 529,643, Nov. 28. Class 103.
Hilb & Co., Inc., Denver, Colo. Knitted outer wear garments for women, misses, and girls. Serial No. 583,692, Nov. 28. Class 39.
Hill-Clarke Machinery Company, Chicago, Ill. Metal-working machinery and tools. Serial No. 540,357, Nov. 28. Class 23.
Hockaday, Inc., Chicago, Ill. Electrical insulating varnishes. Serial No. 515,560, Nov. 28. Class 21.
Hodson Corporation, The, Chicago, Ill. Lubricating oil. Serial No. 556,961, Nov. 28. Class 15.
Hodson Corporation, The, Chicago, Ill. Lubricating grease. Serial No. 556,962, Nov. 28. Class 15.
Home Decorators, Inc., Newark, N. Y. Silver-plated flat and hollow tableware. Serial No. 597,366, Nov. 28. Class 28.
Hopkins, J. L., & Co., New York, N. Y. Raw ground henna. Serial No. 554,568, Nov. 28. Class 51.
Horton & Converse, Los Angeles, Calif. Preparation of vitamin B-12. Serial No. 591,730, Nov. 28. Class 18.
Hotchkiss, E. H., Company, The, Norwalk, Conn. Staples. Serial No. 590,289, Nov. 28. Class 13.
Huggon, H. S., Company: *See*—
Huggon, Harry S.
Huggon, Harry S., doing business under the business name H. S. Huggon Company, Brockton, Mass. Tape for use by embalmers. Serial No. 595,257, Nov. 28. Class 44.
Hunt, Rodney, Machine Company, Orange, Mass. Fulling mills. Serial No. 595,211, Nov. 28. Class 23.
Imperial Chemical Industries Limited, London and Millbank, London, England. Illuminating, heating and lubricating oils. Serial No. 594,783, Nov. 28. Class 15.
Imperial Chemical (Pharmaceuticals) Limited, London, England. Pesticidal veterinary products. Serial No. 586,695, Nov. 28. Class 18.
Interchemical Corporation, New York, N. Y. Paint-type enamel. Serial No. 563,121, Nov. 28. Class 16.
International Drug Store: *See*—
Navarette, J. T.
Irvine Citrus Association, The, Santa Ana, Calif. Fresh citrus fruits. Serial No. 540,419, Nov. 28. Class 46.
Jaeger Company Limited, The, London, England. Yarns. Serial No. 581,772, Nov. 28. Class 43.
Johnson, Charles T., assignee: *See*—
Romero Drug Company.
Joyce, James J., New York, N. Y. Putty knives. Serial No. 566,082, Nov. 28. Class 23.
Kansas City Products Company, Kansas City, Mo. Combined folding table and housing therefor. Serial No. 572,307, Nov. 28. Class 32.
Karstens, Robert H., Pasadena, Calif. Cut and potted natural roses. Serial No. 535,047, Nov. 28. Class 1.
Katz Drug Company, Kansas City, Mo. Tincture of green soap; boric acid crystals and powder, etc. Serial No. 570,209, Nov. 28. Class 51.
Kaufmann Department Stores: *See*—
May Department Stores Company, The.
Keerdijk Producten Maatschappij C. V., doing business under the trade name and style of Keerdijk Trading Co., Amsterdam, Netherlands. Fresh deciduous and citrus fruits, canned, frozen deciduous and citrus fruits, etc. Serial No. 534,149, Nov. 28. Class 46.
Keerdijk Trading Co.: *See*—
Keerdijk Producten Maatschappij C. V.
Kellerman, Rudolph, Inc., New York, N. Y. Nylon stockings. Serial No. 584,402, Nov. 28. Class 39.
Kelly, Henry, Importing & Distributing Co. Inc., New York, N. Y. Whiskey. Serial No. 545,259, Nov. 28. Class 49.
Kemcal Incorporated, assignee: *See*—
Swobe, Thomas W.
Kăp Company, Inc., Houston, Tex. Compound for cleaning teeth. Serial No. 583,346, Nov. 28. Class 51.
Keyes Fibre Company, Waterville, Maine. Molded pulp packing trays. Serial No. 558,141, Nov. 28. Class 2.
Keyes Fibre Company, Waterville and Portland, Maine. Molded pulp packing trays. Serial No. 580,299, Nov. 28. Class 2.
Keyes Fibre Company, Portland and Waterville, Maine. Molded pulp cartons. Serial No. 584,910, Nov. 28. Class 2.
Keyston Bros., San Francisco, Calif. Horse hide, calf skin, kid skin, etc. Serial No. 507,775, Nov. 28. Class 1.
Kilgore Chemicals, Inc., Washington, D. C. Synthetic organic chemical compound. Serial No. 589,727, Nov. 28. Class 6.
King Laboratories, Inc., Syracuse, N. Y. Getters used in the evacuation of vacuum tubes. Serial No. 591,933, Nov. 28. Class 6.

King David Feed Company: *See*—
Stocker, Joseph P.
Kirk, Samuel, & Son, Inc., Baltimore, Md. Sterling silver flatware. Serial No. 598,656, Nov. 28. Class 28.
Kisco Company, Inc., St. Louis, Mo. Air circulating devices. Serial No. 577,577, Nov. 28. Class 21.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. Serial No. 595,214, Nov. 28. Class 40.
Knipe, Robert J., doing business as Wissahickon Yarn Company, Jenkintown, Pa. Nylon knitting yarn. Serial No. 594,846, Nov. 28. Class 43.
Kress, S. H., and Company, New York, N. Y. Hosiery. Serial No. 584,405, Nov. 28. Class 39.
Lane, Limited, New York, N. Y. Smoking tobacco. Serial No. 549,451, Nov. 28. Class 17.
Lefkoff, Anne S., Mrs., doing business under the name of Savex Laboratories, Atlanta, Ga. Salve for the skin and scalp. Serial No. 570,739, Nov. 28. Class 18.
Lehn & Fink Products Corporation, Bloomfield, N. J. Cleansing tissues. Serial No. 558,147, Nov. 28. Class 37.
Lesley, Jerry P., doing business as Cleo Razor Blade Co., Easley, S. C. Razor blades. Serial No. 591,887, Nov. 28. Class 23.
Lewenstein, M. J., doing business as Ac-Re Chemical Company, Kew Garden, N. Y. Sedative. Serial No. 588,375, Nov. 28. Class 18.
Lexington Supply Company, The, Cleveland, Ohio. Glass fiber waterproofing fabric. Serial No. 569,162, Nov. 28. Class 12.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 589,859, Nov. 28. Class 18.
Linbro Mfg. Corp., The, New York, N. Y. Scarfs. Serial No. 589,263, Nov. 28. Class 39.
Lincoln Electric Company, The, Cleveland, Ohio. Wire cable. Serial No. 591,498, Nov. 28. Class 21.
Loewer's Brewery Company, New York, N. Y. Malt beverages. Serial No. 518,959, Nov. 28. Class 48.
Lombardi, Alfred, doing business as Lyn-Maid Lingerie Company, Lyndhurst, N. J. Women's and girls' underwear. Serial No. 592,643, Nov. 28. Class 39.
Lory Co.: *See*—
Napolitan, Louis.
Lovable Brassiere Company, The, Atlanta, Ga. Brassières. Serial No. 593,229, Nov. 28. Class 39.
Love, Joseph, Inc., New York, N. Y. Children's dresses, blouses and skirts. Serial No. 592,502, Nov. 28. Class 39.
Lowe, Joe, Corporation, New York, N. Y. Pocket knives. Serial No. 580,073, Nov. 28. Class 23.
Lubin-Wecker Co. Inc., New York, N. Y. Men's pajamas. Serial No. 591,095, Nov. 28. Class 39.
Lufkin Rule Co., The, Saginaw, Mich. Tool maker's clamps; pocket screw drivers; drive pin punches, etc. Serial No. 577,893, Nov. 28. Class 23.
Lunt Silversmiths: *See*—
Rogers, Lunt & Bowlen Company.
Lydia Cotton Mills, Clinton, S. C. Piece goods. Serial No. 573,376, Nov. 28. Class 42.
Lyn-Maid Lingerie Company: *See*—
Lombardi, Alfred.
M. K. M. Hosiery Mills, Inc., Jamaica Plain, Boston, Mass. Hosiery. Serial No. 584,588, Nov. 28. Class 39.
MacAdam, A. E., & Co., Inc., Brooklyn, N. Y. Paper plates, and dishes; paper bags; paper cartons, etc. Serial No. 567,415, Nov. 28. Class 2.
Magnesium Products Corporation, New York, N. Y. Ladders. Serial No. 559,523, Nov. 28. Class 50.
Mahogany Importing Company, Los Angeles, Calif. Dark red Philippine mahogany. Serial No. 566,042, Nov. 28, Class 12.
Maison France, Inc., New York, N. Y. Ladies' blouses, dickeys, collars, etc. Serial No. 590,855, Nov. 28. Class 39.
Manchester Knitted Fashions, Inc., Manchester, N. H. Men's, women's and children's, knitted and woven outerwear. Serial No. 591,500, Nov. 28. Class 39.
Manges, Simon, & Son, Inc., New York, N. Y. Textile carpets and rugs. Serial Nos. 586,697–8, Nov. 28. Class 42.
Marioness & Co., Inc., New York, N. Y. Wallets. Serial No. 599,333, Nov. 28. Class 3.
Masback Incorporated, New York, N. Y. Ash kit scoops; bow rakes; carpet sweepers; etc. Serial No. 561,841, Nov. 28. Class 23.
Mason, Sally, New York, N. Y. Ladies', misses', and girls' blouses, halters, jackets, etc. Serial No. 568,856, Nov. 28. Class 39.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial Nos. 587,880–1, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial Nos. 587,883–4, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial Nos. 587,886–8, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial Nos. 587,890–1, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial No. 587,893, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial Nos. 587,895–7, Nov. 28. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 590,668, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 590,673, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial Nos. 590,677–8, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical panritamin preparation. Serial No. 590,680, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 590,682, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 590,684, Nov. 28. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 590,686, Nov. 28, Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial Nos. 590,690–2, Nov. 28. Class 18.

Master Bronze Powder Company, Hammond, Ind. Rust preventive preparation. Serial No. 592,771, Nov. 28. Class 6.

May Department Stores Company, The, doing business under the name of Kaufmann Department Stores, St. Louis, Mo., and Pittsburgh, Pa. Face and hand creams, face and hand lotions, skin freshener and tonic, etc. Serial No. 574,716, Nov. 28. Class 51.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal and pharmaceutical preparations. Serial No. 593,076, Nov. 28. Class 18.

McPherson, Hal Weir, Chicago, Ill. Valve. Serial No. 590,557, Nov. 28. Class 13.

Mehigan, John T., doing business as Twi-Light Paint Co., Minneapolis, Minn. Clear synthetic resinous plastic solution. Serial No. 566,630, Nov. 28. Class 16.

Meier Distributing Corporation, Atlanta, Ga. Adhesive compounds. Serial No. 585,882, Nov. 28. Class 5.

Mengel Company, The, Louisville, Ky. Wood containers. Serial No. 564,636, Nov. 28. Class 2.

Mercantile Stores Company, Inc., Wilmington, Del. Radio receiving sets, television receiving sets, combination radio and record players etc. Serial No. 578,156, Nov. 28. Class 21.

Merrimac Hat Corporation, New York, N. Y., and Amesbury, Mass. Men's, women's and children's hats and hat bodies. Serial No. 585,714, Nov. 28. Class 39.

Meyer, Al H., doing business as Al H. Meyer Co., Monterey, Calif. Canned fish. Serial No. 575,071, Nov. 28. Class 46.

Meyer, Al H., Co.: *See*—
Meyer, Al H.

Miami Sea Food Company, Miami, Fla. Frozen fresh fish, shrimp, oysters, etc. Serial No. 591,633, Nov. 28. Class 46.

Miller, Carl F., & Co., Inc., Seattle, Wash. Organic solvents, alcohols, organic and inorganic acids, etc. Serial No. 573,221, Nov. 28. Class 6.

Minit Spray Corporation, Chicago, Ill. Enamel. Serial No. 588,648, Nov. 28. Class 16.

Mississippi Valley Canning Co., The, Osceola, Ark. Canned field peas, canned sifted peas, canned turnip greens, etc. Serial No. 542,329, Nov. 28. Class 46.

Monsanto Chemical Company, St. Louis, Mo. Chemical toxicants. Serial No. 577,336, Nov. 28. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. Serial No. 592,654, Nov. 28. Class 16.

Mooresville Mills, Inc., Mooresville, N. C. All rayon fabric. Serial No. 586,297, Nov. 28. Class 42.

Moss Hosiery Company: *See*—
Demoss, David D.

Mother's Food Products, Inc., Newark, N. J. Gefilte fish. Serial No. 557,620, Nov. 28. Class 46.

Napolitan, Louis, doing business as Lory Co., New York, N. Y. Temporary wrinkle remover. Serial No. 573,561, Nov. 28. Class 51.

Nathan Products Corporation, New York, N. Y. Physicians', surgeons' and nurses' professional cases or bags. Serial No. 591,998, Nov. 28. Class 3.

National Cylinder Gas Company, Chicago, Ill. Hand operated fire extinguishers and parts thereof. Serial No. 579,045, Nov. 28. Class 23.

National Modes, Inc., New York, N. Y. Women's outer and under wearing apparel. Serial No. 595,848, Nov. 28. Class 39.

National Silver Company, New York, N. Y. Certain articles of hollowware. Serial No. 532,329, Nov. 28. Class 13.

National Silver Company, New York, N. Y. Ceramic dinnerware. Serial No. 586,701, Nov. 28. Class 30.

National Silver Company, New York, N. Y. Sterling silver and silverplated flatware. Serial No. 599,840, Nov. 28. Class 28.

National Silver Company, New York, N. Y. Silverplated flatware. Serial No. 601,157, Nov. 28. Class 28.

National Silver Company, New York, N. Y. Silverplated flatware. Serial No. 601,163, Nov. 28. Class 28.

National Silver Company, New York, N. Y. Sterling silver and silverplated flatware. Serial No. 601,164, Nov. 28. Class 28.

National Silver Company, New York, N. Y. Sterling silver flatware. Serial No. 601,166, Nov. 28. Class 28.

National Silver Company, New York, N. Y. Silverplated flatware. Serial No. 603,641, Nov. 28. Class 28.

Navarette, J. T., doing business as International Drug Store, Sacramento, Calif. Ointment. Serial No. 584,202, Nov. 28. Class 18.

Nelder, Mark, New York, N. Y. Gloves and mittens. Serial No. 591,507, Nov. 28. Class 39.

Netlee Packing Company, Chicago, Ill. Potted meat and vienna sausage. Serial No. 587,814, Nov. 28. Class 46.

Nissen, John P., Jr., Company, Glenside, Pa. Marking inks, etc. Serial No. 593,011, Nov. 28. Class 11.

Northern Industrial Chemical Company, South Boston, and Boston, Mass. Tableware. Serial No. 560,652, Nov. 28. Class 2.

O. & S. Bearing Company, Detroit, Mich. Lubricant impregnated fabric bearings and bushings, etc. Serial No. 596,934, Nov. 28. Class 23.

Ohio Boxboard Company, The, Rittman, Ohio. Cartons, packing cases and boxes. Serial No. 576,820, Nov. 28. Class 2.

Oneida Ltd., Sherrill, and Oneida, N. Y., Silverplated flat and hollow tableware. Serial No. 554,508, Nov. 28. Class 28.

Oneida Ltd., Oneida, N. Y. Silverplated flat and hollow tableware. Serial No. 597,624, Nov. 28. Class 28.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated hollow tableware. Serial No. 600,734, Nov. 28. Class 28.

Orion Specialties: *See*—
Woodbury, Clare R.

Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls, work shirts, coats, etc. Serial No. 558,920, Nov. 28. Class 39.

O-So Grape Co., Chicago, Ill. Liquid concentrate and powder for making soft drinks. Serial No. 596,675, Nov. 28. Class 45.

O'Sullivan Rubber Corporation, Winchester, Va. Vinyl plastic material. Serial No. 559,241, Nov. 28. Class 1.

Pacific Car and Foundry Company, Renton, Wash. Ferrous metal castings. Serial No. 597,289, Nov. 28. Class 14.

Pacific Mills, New York, N. Y., and Boston, Mass. Woolen fabrics in the piece. Serial No. 580,743, Nov. 28. Class 42.

Pan American Candy Company, Inc., Ashley, Ill. Candy bars. Serial No. 588,882, Nov. 28. Class 46.

Pandora Knitwear, Inc., New York, N. Y. Sweaters. Serial No. 590,942, Nov. 28. Class 39.

Parfums Blanchard, New York, N. Y. Toilet water, cologne, perfume, etc. Serial No. 588,382, Nov. 28. Class 51.

Paris Decorators Corp., New York, N. Y. Candy boxes, jewel boxes, powder jars, etc. Serial No. 564,343, Nov. 28. Class 2.

Paschke, George S., Bremerton, Wash. Artificial flowers in the nature of trimmings. Serial No. 591,581, Nov. 28. Class 40.

Pate Oil Company, Milwaukee, Wis. Multi-purpose lubricating greases. Serial No. 594,987, Nov. 28. Class 15.

Pedigree Fabrics, Inc., New York, N. Y. Woven fabric of rayon or nylon or mixtures thereof. Serial No. 587,131, Nov. 28. Class 42.

Pennsylvania Leather Products Company, Troy, Pa. Leather wallets, pocket folders. Serial No. 580,899, Nov. 28. Class 3.

Penobscot Chemical Fibre Company, Old Town, Maine. Soda wood pulp and bleached sulphite wood pulp. Serial No. 547,275, Nov. 28. Class 1.

Perlman Engineering Corporation, Los Angeles, Calif. Card filing boxes and card filing trays. Serial No. 552,268, Nov. 28. Class 32.

Pierce & Stevens, Incorporated, Buffalo, N. Y. Lacquer floor coating. Serial No. 580,509, Nov. 28. Class 16.

Pilgrim Full Fashion Mills, Inc., Valdese, N. C. Ladies' hosiery. Serial No. 568,530, Nov. 28. Class 39.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 593,082, Nov. 28. Class 46.

Platt Luggage, Inc., Chicago, Ill. Ladies' accessory zipper traveling bags. Serial No. 593,825, Nov. 28. Class 3.

Playtime Productions, Inc., Chicago, Ill. Toy. Serial No. 581,612, Nov. 28. Class 22.

Polaroid Corporation, Cambridge, Mass. Light-polarizing organic plastic. Serial Nos. 597,162–3, Nov. 28. Class 1.

Porosan Plastics Limited, London, England. Perfumed synthetic resins. Serial No. 575,667, Nov. 28. Class 6.

Posees, Inc., Jersey City, N. J. Breast covers. Serial No. 593,288, Nov. 28. Class 39.

Pratt & Lambert-Inc., Buffalo, N. Y. Wall paint. Serial No. 587,816, Nov. 28. Class 16.

Precision Golf Products Co., Chicago, Ill. Golf equipment. Serial No. 586,764, Nov. 28. Class 22.

Pro-Football, Inc., doing business as Washington Redskins, Washington, D. C. Footballs. Serial No. 585,478, Nov. 28. Class 22.

Puritan Uniform Company: *See*—
Cooper, Leo M.

Pyramid Leather Goods Co., Inc., New York, N. Y. Children's and girls' handbags. Serial No. 599,974, Nov. 28. Class 3.

Rain Coquette: *See*—
Duchess Royal, Inc.

Rain Coquette by Duchess Royal, Inc., New York, N. Y. Raincoats. Serial No. 591,954, Nov. 28. Class 39.

Rand Rubber Company, Inc., Brooklyn, N. Y. Baby pants, baby bibs, aprons, etc. Serial No. 581,826, Nov. 28. Class 39.

Randall Faichney Corporation, Jamaica Plain, Boston, Mass. Hypodermic needles and syringes, and parts thereof. Serial No. 592,436, Nov. 28. Class 44.

Raymond Bag Company, The, Middletown, Ohio. Paper bags. Serial No. 590,454, Nov. 28. Class 2.

Reamstown Hosiery Mills, Inc., Mohnton, Pa. Hosiery. Serial No. 583,947, Nov. 28. Class 39.

Record Industrial Company, Philadelphia, Pa. Raincoats, rain suits, fire coats, etc. Serial No. 549,087, Nov. 28. Class 39.

Reed & Carnrick, Jersey City, N. J. Pharmaceutical preparation. Serial Nos. 579,710–11, Nov. 28. Class 18.

Reineke, E. R., & Co.: *See*—
Reineke, Edward R.

Reineke, Edward R., doing business as E. R. Reineke & Co., Petersburg, Ind. Fabric coasters. Serial No. 569,299, Nov. 28. Class 2.

Republic Paint & Varnish Co., Chicago, Ill. Ready-mixed paints, etc. Serial No. 541,456, Nov. 28. Class 16.

Republic Paint & Varnish Co., Chicago, Ill. Transparent varnish oil. Serial No. 541,458, Nov. 28. Class 16.

Reybold, Malcolm, New York, N. Y. Game. Serial No. 586,938, Nov. 28. Class 22.

Richardson Corporation, Rochester, N. Y. Crushed and whole fruits and nuts, etc. Serial No. 532,754, Nov. 28. Class 46.

Ritter, H. R., Trucking Company, Belleville and Paramus, N. J. Transportation of industrial oil, fuel oil, chemicals and solvents by tank trucks. Serial No. 517,001, Nov. 28. Class 105.

Robbins, Harry G., Dental Studio, Inc., Hollywood, Calif. Partial dentures and metal alloy used in making same. Serial No. 565,080, Nov. 28. Class 44.

Robbins Mills, Inc.: *See*—
Colonial Mills, Inc.

Robinson Manufacturing Co., Inc., Dayton, Tenn. Men's under shorts, and boys' cotton woven underwear. Serial No. 583,291, Nov. 28. Class 39.

Roddis Plywood Corporation, Marshfield, Wis. Wooden doors. Serial No. 576,423, Nov. 28. Class 12.

Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Knives, forks, spoons, etc. Serial No. 603,129, Nov. 28. Class 28.

Rolls Razor, Inc., New York, N. Y. Shaving soap. Serial No. 591,048, Nov. 28. Class 51.

Roman Raichert Company, Inc., Chicago, Ill. Sewing machines, sewing machine heads, sewing machine parts and accessories. Serial No. 594,334, Nov. 28. Class 23.

Romero Drug Company, assignor to C. T. Johnson, San Antonio, Tex. Laxative pills. Serial No. 552,496, Nov. 28. Class 18.

Rorer, William H., Inc., Philadelphia, Pa. Lotion for use in the treatment of poison ivy dermatitis. Serial No. 592,518, Nov. 28. Class 18.

S & H Fashions, Inc., New York, N. Y. Ladies', misses' and girls' dresses. Serial No. 593,292, Nov. 28. Class 39.

S and M Company, The, Minneapolis, Minn. Automobile tires. Serial No. 572,454, Nov. 28. Class 35.

Saben Glass Company, New York, N. Y. Sterling silver ware. Serial No. 588,107, Nov. 28. Class 28.

San Diego Packing Co., San Diego, Calif. Canned tuna. Serial No. 588,710, Nov. 28. Class 46.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial No. 587,508, Nov. 28. Class 18.

Sanirak Inc., Tulsa, Okla. Rack. Serial No. 512,617, Nov. 28. Class 2.

Savex Laboratories: *See*—
Lefkoff, Anne S., Mrs.

Schering Corporation, Bloomfield, N. J. Mixture of sulfonamide drugs. Serial No. 566,478, Nov. 28. Class 18.

Scherr, George, Co., New York, N. Y. Calipers. Serial No. 595,853, Nov. 28. Class 26.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Non-medicated elastic bandages. Serial No. 589,337, Nov. 28. Class 44.

Seamless Rubber Company, The, New Haven, Conn. Covers for basketballs, footballs, soccer balls, and other game balls. Serial No. 585,082, Nov. 28. Class 22.

Sears, Roebuck and Co., Chicago, Ill. Plastic feeding dish and drinking tumbler set for babies. Serial No. 577,613, Nov. 28. Class 2.

Sears, Roebuck and Co., Chicago, Ill. Textile rugs and carpeting. Serial No. 581,023, Nov. 28. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Men's and boys' shirts. Serial No. 588,900, Nov. 28. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Household furniture. Serial No. 592,164, Nov. 28. Class 32.

Self-Aid Products Corporation, Saybrook, Conn. Clothesline brackets. Serial No. 579,561, Nov. 28. Class 13.

Shannon, John, & Son Limited, Walsall, England. Men's trousers. Serial No. 590,035, Nov. 28. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibacterial preparation. Serial No. 590,329, Nov. 28. Class 18.

Shellmar Products Corporation, Chicago, Ill. Utility bags. Serial No. 592,670, Nov. 28. Class 2.

Shewach Brothers, Detroit, Mich. Canned fruits, canned vegetables, fruit cocktail, etc. Serial No. 584,157, Nov. 28. Class 46.

Shirley Fabrics Corp., New York, N. Y. Acetate and rayon fabrics in the piece. Serial No. 597,980, Nov. 28. Class 42.

Shirtcraft Company, Inc., The, New York, N. Y. Shirts. Serial No. 589,343, Nov. 28. Class 39.

Shirtcraft Company, Inc., The, New York, N. Y. Negligee shirts, sport shirts, shorts, etc. Serial No. 591,517, Nov. 28. Class 39.

Shotwell Mfg. Co., The, Chicago, Ill. Marshmallows. Serial No. 575,165, Nov. 28. Class 46.

Signal Oil Company, Los Angeles, Calif. Lubricating oils. Serial No. 584,500, Nov. 28. Class 15.

Silverston, L., & Sons Limited, Cambridge Heath, London, England. Women's hats. Serial No. 588,713, Nov. 28. Class 39.

Simon and Mogilner, St. Paul, Minn. Infants' and children's playsuits, dungarees, boxer shorts, etc. Serial No. 578,052, Nov. 28. Class 39.

Slade, Priscilla A., Springdale, Conn. Hand-made jewelry. Serial No. 603,754, Nov. 28. Class 28.

Sloan, W. & J., New York, N. Y. Bed spreads, draperies, valances, etc. Serial No. 582,064, Nov. 28. Class 42.

Slumberland Products Co., Roxbury, Mass. Mattresses, box springs, and inner-spring mattresses. Serial No. 592,285, Nov. 28. Class 32.

Smart Maid Coat Co., Inc., New York, N. Y. Misses' coats. Serial No. 597,105, Nov. 28. Class 39.

Smith, G. W., & Sons, Inc., Dayton, Ohio. Lubricating compositions. Serial No. 594,406, Nov. 28. Class 15.

Sona Products Corporation, Chicago, Ill. Cleaning preparation. Serial No. 598,437, Nov. 28. Class 52.

Southern Biscuit Company, Incorporated, Richmond, Va. Cookies and crackers. Serial No. 590,764, Nov. 28. Class 46.

Spiegle, Ralph G., doing business as Cottrim Lumber Company, Bristol, Tenn. Lumber of all kinds. Serial No. 561,950, Nov. 28. Class 12.

Spradlin, Roy H., Lakeworth, Fla. Frosted, chocolate-covered bananas on a stick. Serial No. 582,581, Nov. 28. Class 46.

Sprague Electric Company, North Adams, Mass. Alkaline primary cells. Serial No. 574,794, Nov. 28. Class 21.

Spratt's Patent (America) Limited, London, England, and Newark, N. J. Dog biscuits. Serial No. 580,168, Nov. 28. Class 46.

Standard Electric Company, Inc., San Antonio, Tex. Storage batteries. Serial No. 593,941, Nov. 28. Class 21.

Standard Pressed Steel Co., Jenkintown, Pa. Stacking boxes. Serial No. 572,598, Nov. 28. Class 2.

Standard-Thomson Corporation, Dayton, Ohio. Flexible couplings for conduits. Serial No. 590,713, Nov. 28. Class 13.

Star Jewelry Co., Inc., New York, N. Y. Jewelry. Serial No. 589,994, Nov. 28. Class 28.

Sterling, Inc., Milwaukee, Wis. Liquid metering pumps and thermostatic temperature regulator valves. Serial No. 592,786, Nov. 28. Class 26.

Sterling, Inc., Milwaukee, Wis. Thermostatic temperature regulator valves. Serial No. 592,788, Nov. 28. Class 26.

Stern, L. & Co., Inc., Mount Vernon, N. Y. Dental casting gold ingots, dental gold clasp wire, dental gold foil, etc. Serial No. 568,151, Nov. 28. Class 44.

Stevens, J. P., & Co., Inc., New York, N. Y. Denim fabrics. Serial No. 566,186, Nov. 28. Class 42.

Stocker, Joseph P., doing business as King David Feed Company, Omaha, Nebr. Poultry and farm animal feeds. Serial No. 579,720, Nov. 28. Class 46.

Stoddard, G. S., & Co., Inc., New York, N. Y. Diuretic. Serial No. 570,806, Nov. 28. Class 18.

Stokes, Francis C., Company, Vincenttown, N. J. Vegetable seeds. Serial No. 592,349, Nov. 28. Class 1.

Stuart, Arthur, Company, Albuquerque, N. Mex. Sterling silver flatware. Serial No. 598,123, Nov. 28. Class 28.

Swan's Enterprises, Inc., Andrews, N. C. Preparation and treatment for the relief of arthritis and paralysis. Serial No. 587,055, Nov. 28. Class 18.

Sweaney, W. R., Mfgr., Salisbury, Mo. Rat, mouse, mole, and gopher poison. Serial No. 592,169, Nov. 28. Class 6.

Sweets Laboratories, Inc., New York, N. Y. Chewing gum base. Serial Nos. 525,703–5, Nov. 28. Class 1.

Swobe, Thomas W., doing business as Thomas W. Swobe Co., assignor to Kemcal Incorporated, San Francisco, Calif. Liquid deodorant. Serial No. 590,290, Nov. 28. Class 6.

Swobe, Thomas W., Co.: *See*—
Swobe, Thomas W.

Taylor & Sledd, Inc., Richmond, Va. Canned vegetables and canned apple sauce. Serial No. 586,666, Nov. 28. Class 46.

Texas Carbonate Company, Florence, Tex. Powdered amorphous limestone. Serial No. 547,191, Nov. 28. Class 6.

Thermoid Company, Trenton, N. J. Hydraulic brake parts. Serial No. 569,230, Nov. 28. Class 23.

Thermoid Company, Trenton, N. J. Hydraulic brake fluid. Serial No. 595,026, Nov. 28. Class 6.

Trade-Wind Motorfans, Inc., Los Angeles, Calif. Electrically operated fans and blowers. Serial No. 567,472, Nov. 28. Class 34.

Trimble, John O., doing business as Voo Doo Lure Co., San Francisco, Calif. Artificial fishing lures. Serial No. 588,717, Nov. 28. Class 22.

Trio Novelty Manufacturing Corporation, New York, N. Y. Shoulder pads. Serial No. 582,582, Nov. 28. Class 40.

Troop Water Heater Company, Pittsburgh, Pa. Water purifying and softening apparatus. Serial No. 572,623, Nov. 28. Class 31.

Truval Manufacturers, Inc., New York, N. Y. Business shirts for men and young men. Serial No. 591,328, Nov. 28. Class 39.
Tubular Service & Engineering Company, Houston, Tex. Non-destructive magnetic testing of metals. Serial No. 588,978, Nov. 28. Class 100.
Twi-Light Paint Co.: *See*—
Mehigan, John T.
United L. P. Gas Company, Grand Island, Nebr. Liquefied petroleum gas. Serial No. 583,501, Nov. 28. Class 6.
United Metal Products Corp., Detroit, Mich. Mechanical golf ball markers. Serial No. 557,877, Nov. 28. Class 23.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Disinfectant, deodorant, antiseptic, etc. Serial No. 541,360, Nov. 28. Class 18.
Vanity Fair Mills, Inc., Reading, Pa. Underwear, lingerie and sleeping garments for women and misses. Serial No. 561,701, Nov. 28. Class 39.
Van Pelt and Brown, Incorporated, Richmond, Va. Antihistaminic tablets. Serial No. 589,483, Nov. 28. Class 18.
Vita Food Products, Inc., New York, N. Y. Caviar in tins and jars. Serial No. 548,888, Nov. 28. Class 46.
Vitavim Company, *See*—
Freeman, Harry.
Vitene Mfg. Co. Inc., New York, N. Y. Preparation used to disintegrate rust and corrosion. Serial No. 591,968, Nov. 28. Class 6.
Voo Doo Lure Co.: *See*—
Trimble, John O.
Walsh, John J., St. Louis, Mo. Women's and misses' shoes. Serial No. 577,625, Nov. 28. Class 39.
Wampole, Henry K., & Company, Incorporated, Philadelphia, Pa. Medicinal iodine preparation. Serial No. 593,032, Nov. 28. Class 18.
Washington Redskins: *See*—
Pro-Football, Inc.
Watson Standard Company, Pittsburgh, Pa. Interior oil paint. Serial No. 558,087, Nov. 28. Class 16.
Weco Products Company, Chicago, Ill. Hair nets. Serial No. 594,006, Nov. 28. Class 39.
Wesco Waterpaints, Inc., Berkeley, Calif. Interior stipple paints. Serial No. 557,803, Nov. 28. Class 16.
Westinghouse Electric Corporation, East Pittsburgh, Pa. Lubricants. Serial No. 573,392, Nov. 28. Class 15.
Westpfal Cutlery Co., New York, N. Y. Cutlery. Serial No. 590,472, Nov. 28. Class 23.
Whitehead & Kales Company, Detroit, Mich. Open top sheet metal boxes, all-metal crates, etc. Serial No. 564,794, Nov. 28. Class 2.
White Swan Uniforms, Inc., New York, N. Y. Nurses' uniforms. Serial No. 590,045, Nov. 28. Class 39.
Whitworth, Henry C., doing business as The Whitworth Supply Company, Denver, Colo. Tractors, plows, harrows, mowers, etc. Serial No. 573,695, Nov. 28. Class 23.
Whitworth Supply Company, The: *See*—
Whitworth, Henry C.
Widdicomb, John, Co., Inc., New York, N. Y. Articles of furniture. Serial No. 551,351, Nov. 28. Class 32.
Wieboldt Stores, Inc., Chicago, Ill. Lawn seed. Serial No. 588,411, Nov. 28. Class 1.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Plant fertilizing materials. Serial No. 596,765, Nov. 28. Class 10.
Wimelbacher & Rice Inc., New York, N. Y. Women's gloves. Serial No. 588,669, Nov. 28. Class 39.
Wise, Stella R., New York, N. Y. Perfumes, colognes and toilet water. Serial No. 589,490, Nov. 28. Class 51.
Wissahickon Yarn Company: *See*—
Knipe, Robert J.
Woodbury, Clare R., doing business as Orion Specialties, Newark, N. J. Racks to be affixed to walls and other supports. Serial No. 560,306, Nov. 28. Class 13.
Woodlets Incorporated, Portland, Pa. Coating and cleaning spray material. Serial No. 588,254, Nov. 28. Class 4.
Wyeth Incorporated, Philadelphia, Pa. Steroids in dosage form. Serial No. 592,533, Nov. 28. Class 18.
Youngstown Manufacturing, Incorporated, Youngstown, Ohio. Sink counter covering. Serial No. 592,353, Nov. 28. Class 20.
Zeller, Harry, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 587,921, Nov. 28. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

A. D. Manufacturing Co.: *See*—
D'Anna, Anthony M.
Adams County Fruit Packing and Distributing Company, Biglerville, Pa. Fresh apples and peaches. 534,008, Nov. 28; Serial No. 578,307, published June 27, 1950. Class 46.
Adjustable Clamp Company, Chicago, Ill. Hand-screw clamps. 533,903, Nov. 28; Serial No. 560,153, published July 18, 1950. Class 23.
A-Gene Laboratories, St. Louis, Mo. Mild laxative and headache remedy; etc. 534,003, Nov. 28; Serial No. 578,066, published Sept. 5, 1950. Class 18.
Aktiebolaget Speedoll: *See*—
Clementson, C. & S.
Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind. Pharmaceutical preparations. 533,942, Nov. 28; Serial No. 569,420, published Sept. 5, 1950. Class 18.
Allied Litho Supply Co.: *See*—
Ebersole, Benjamin S.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Agricultural machinery and implements. 533,862, Nov. 28; Serial No. 545,417, published Apr. 11, 1950. Class 23.
Allison-Erwin Company, Charlotte, N. C. Ice refrigerators. 534,155, Nov. 28; Serial No. 579,387. Class 31.
All-Steel Equipment Inc., Aurora, Ill. Storage lockers. 533,871, Nov. 28; Serial No. 548,904, published Aug. 15, 1950. Class 32.
All-Steel Equipment Inc., Aurora, Ill. Storage lockers. 533,872, Nov. 22; Serial No. 549,038, published Aug. 15, 1950. Class 32.
Altheimer & Baer, Inc., Chicago, Ill. Cooking utensils. 534,142, Nov. 28; Serial No. 559,080. Class 13.
American Circular Loom Company, Boston, Mass., to National Electric Products Corporation, Pittsburgh, Pa. Metal pipes. 78,671, re-renewed July 5, 1950. O. G. Nov. 28. Class 13.
American Crayon Company, The, Sandusky, Ohio. Materials used in process for applying crayons to fabrics. 280,310, renewed Feb. 10, 1951. O. G. Nov. 28. Class 22.
American Cystoscope Makers, Inc., New York, N. Y. Ophthalmoscopes and components thereof. 534,023, Nov. 28; Serial No. 580,545, published Sept. 5, 1950. Class 26.
American Optical Company, Southbridge, Mass. Ophthalmic frames and mountings. 533,916, Nov. 28; Serial No. 563,802, published Aug. 15, 1950. Class 26.
American Pulley Company, The, Philadelphia, Pa. Package trays for trucks. 277,655, renewed Nov. 25, 1950. O. G. Nov. 28. Class 2.
American Rolling Mill Company, The: *See*—
Armco Steel Corporation.
Anderson, Clayton & Co.: *See*—
Plainview Cotton Oil Co., Inc.
Anderson-Clayton Industries, Inc., assignee: *See*—
Plainview Cotton Oil Co., Inc.
Anthony, F. M., Company: *See*—
Anthony, Felix M.
Anthony, Felix M., doing business as F. M. Anthony Company, Piedmont, Calif. Lugs for electrical cables, metal cable connectors and rubber coverings. 533,961, Nov. 28; Serial No. 572,709, published Aug. 22, 1950. Class 21.
Applebaum-Mautner Company, Inc., Madison, Wis. Women's and girls' shoes. 533,873, Nov. 28; Serial No. 549,489, published Aug. 22, 1950. Class 39.
Archer-Daniels-Midland Company, Minneapolis, Minn., doing business as The Werner G. Smith Company, Cleveland, Ohio. Hydrogenated fatty acids and hydrogenated glycerides. 534,108, Nov. 28; Serial No. 589,238, published Sept. 12, 1950. Class 6.
Ardmore Products Company: *See*—
Stader, Otto.
Arlington Silk Hosiery Co. Inc., to Joseph Kaufman, New York, N. Y. Hosiery. 347,511, June 29, 1937. New certificate. O. G. Nov. 28. Class 39.
Armco Steel Corporation, Middletown, Ohio, by change of name from The American Rolling Mill Company. Ferrous metal pipe and ferrous metal pipe fittings; etc. 533,845, Nov. 28; Serial No. 527,738, published July 11, 1950. Class 13.
Armstrong Paint & Varnish Works, Chicago, Ill. Ready-mixed paint. 534,139, Nov. 28; Serial No. 556,059. Class 16.
Armstrong Paint & Varnish Works, Chicago, Ill. Ready-mixed paint. 534,140–1, Nov. 28; Serial Nos. 556,066–7. Class 16.
Arnold, Constable & Co., Inc.: *See*—
Schoenfeld, Emanuel.
Arrow Aluminum Products Co., Inc., New York, N. Y. Sandwich grill. 534,099, Nov. 28; Serial No. 587,003, published Sept. 5, 1950. Class 13.
Arrow Products Corporation, Baltimore, Md. Liquid paint and varnish remover. 533,854, Nov. 28; Serial No. 537,398, published Aug. 22, 1950. Class 16.
Arrowood, S. D., Co., Inc., New York, N. Y. Hosiery. 534,078, Nov. 28; Serial No. 585,098, published Aug. 29, 1950. Class 39.
Associated Knitters, Inc., Reading, Pa. Hosiery and ladies' underwear. 534,066, Nov. 28; Serial No. 584,747, published Aug. 22, 1950. Class 39.

B. M. C. Manufacturing Corp., Binghamton, N. Y., assignee of Car-Mac Mfg. Co., Inc. Child's tricycle. 534,127, Nov. 28; Serial No. 517,829. Class 22.
Bachmann, Robert A., doing business as The Sanitube Company, to The Sanitube Company, Newport, R. I. Medicinal ointment. 272,348, renewed July 8, 1950. O. G. Nov. 28. Class 18.
Baldwin Pharmacal Company, Inc., Newark, N. J. Medicinal compound. 534,038–40, Nov. 28,: Serial Nos. 581,755–7, published Sept. 5, 1950. Class 18.
Ball, Webb C., Watch Company, The: *See*—
Ball, Webster C.
Ball, Webster C., Cleveland, Ohio, to The Webb C. Ball Watch Company, Chicago, Ill. Watches and portable clocks. 35,047, re-renewed Sept. 18, 1950. O. G. Nov. 28. Class 27.
Barta-Griffin Company, Worcester, Mass. Printing and lithographic inks. 534,056, Nov. 28; Serial No. 583,187, published Aug. 22, 1950. Class 11.
Bass, G. H., & Co., Wilton, Maine. Shoes and moccasins. 534,089, Nov. 28; Serial No. 586,265, published Aug. 22, 1950. Class 39.
Bauer Mfg. Corporation, Hawthorne, Calif. Anode devices for insertion in water heaters. 533,955, Nov. 28; Serial No. 571,788, published Aug. 22, 1950. Class 21.
Baxter Laboratories, Inc., Morton Grove, Ill. Fluids for parenteral use. 534,117, Nov. 28; Serial No. 593,212, published Sept. 5, 1950. Class 18.
Bead Chain Manufacturing Company, The, Bridgeport, Conn. Radio contact pins, radio contact prongs, contact points, etc. 534,100, Nov. 28; Serial No. 587,070, published Aug. 29, 1950. Class 21.
Becher, Jacob, & Son, Inc., New York, N. Y. Fur skins. 533,962, Nov. 28; Serial No. 572,826, published Aug. 29, 1950. Class 1.
Bedell, Berkley W., doing business as Berkley Fly Co., Spirit Lake, Iowa. Nylon covered steel cable. 533,914, Nov. 28; Serial No. 563,233, published Aug. 22, 1950. Class 22.
Belgrade Shoe Co., Auburn, Maine. Men's, women's and children's shoes. 534,058, Nov. 28; Serial No. 583,322, published Aug. 22, 1950. Class 39.
Bell Textile Company, Inc., New York, N. Y. Chenille bedspreads, bath mats, blankets, etc. 444,338, Nov. 28; Serial No. 510,931, published Aug. 29, 1950. Class 42.
Bendix Aviation Corporation, Detroit, Mich. Wind driven apparatus. 534,075, Nov. 28; Serial No. 585,010, published Aug. 15, 1950. Class 26.
Benrus Watch Company, Inc., New York, N. Y. Watches. 533,953, Nov. 28; Serial No. 571,109, published Sept. 5, 1950. Class 27.
Bergen Toy & Novelty Co., Inc., Hackettstown, N. J. Plastic figurines. 534,018, Nov. 28; Serial No. 579,655, published Aug. 15, 1950. Class 22.
Berger, Isodor, doing business as Eclipse Knitting Mills, Newark, by Eclipse Knitting Mills, Inc., East Newark, N. J. Sweaters. 179,608, Feb. 12, 1924. Republished Nov. 28. Class 39.
Berkley Fly Co.: *See*—
Bedell, Berkley W.
Bilco Company, The, New Haven, Conn. Metal roof scuttles, sidewalk doors, cellar doors, etc. 533,978, Nov. 28; Serial No. 575,035, published Aug. 29, 1950. Class 12.
Blaugrund, Marvin J., Cleveland, Ohio. Clamps. 534,050, Nov. 28; Serial No. 582,718, published Aug. 29, 1950. Class 21.
Boston Manufacturing Co., Boston, Mass. Time indicators. 533,920, Nov. 28; Serial No. 564,604, published Sept. 5, 1950. Class 26.
Bowling Products Company: *See*—
Wilhelm, Warner F.
Boyle-Midway Inc., New York, N. Y. Electrically operated floor polishing machines. 534,113, Nov. 28; Serial No. 590,879, published Aug. 22, 1950. Class 21.
Branch Industries, Inc., New York, N. Y. Fluorescent lighting tubes, and fixtures, etc. 533,899, Nov. 28; Serial No. 559,573, published Aug. 22, 1950. Class 21.
Brown Durrell Co., Boston, Mass., to Brown Durrell Co., Cambridge, Mass., and New York, N. Y. Men's, women's, and children's knitted shirts, vests, drawers, and union suits. 80,827, re-renewed Feb. 7, 1951. O. G. Nov. 28. Class 39.
Brown, George C., & Company, Memphis, Tenn., by George C. Brown & Company, Inc., Greensboro, N. C. Closet lining, flooring, shelving, etc. 277,220, Nov. 11, 1930. Republished Nov. 28. Class 12.
Brown, George C., & Company, Inc.: *See*—
Brown, George C., & Company.
Burd, Walter, and E. B., Westfield, N. J. Velocipedes, scooters, sleds, etc. 533,928, Nov. 28; Serial No. 567,183, published Aug. 15, 1950. Class 22.
Burlington Mills Incorporated, Burlington, Wis. Life preserver cushions; life preserver jackets, vests and belts; etc. 533,918, Nov. 28; Serial No. 563,900, published Aug. 22, 1950. Class 22.
Burroughs Adding Machine Company, Detroit, Mich. Business machines. 534,074, Nov. 28; Serial No. 584,966, published Sept. 5, 1950. Class 26.
Butler Paper Corporations, Chicago, Ill. Writing and printing paper, and mailing and correspondence envelopes. 533,857, Nov. 28; Serial No. 540,518, published June 20, 1950. Class 37.
C. C. G. Products: *See*—
Gerard, Clarence C.
Calbest Engineering and Electronics Company, Los Angeles, Calif. Television radio receiving sets. 534,096, Nov. 28; Serial No. 586,726, published Aug. 22, 1950. Class 21.
Call, Minnie T., doing business as Radiant Wash Solution Co., Olean, N. Y., Self-polishing wax. 534,034, Nov. 28; Serial No. 581,583, published Aug. 29, 1950. Class 4.
Camdel, Incorporated, Camden, N. J. Child's toy. 534,051, Nov. 28; Serial No. 583,028, published Aug. 15, 1950. Class 22.
Capital City Products Company, The, Columbus, Ohio. Vegetable shortening. 533,860, Nov. 28; Serial No. 542,812, published July 18, 1950. Class 46.
Carey Salt Company, The, Hutchinson, Kans. Medium salt; table salt; salt spools, etc. 533,853, Nov. 28; Serial No. 537,150, published July 4, 1950. Class 46.
Car-Mac Mfg. Co., Inc.: *See*—
B. M. C. Manufacturing Corp.
Carter Motor Company, Chicago, Ill. Motor generators. 534,095, Nov. 28; Serial No. 586,680, published Aug. 29, 1950. Class 21.
Celanese Corporation of America, New York, N. Y. Piece goods. 533,999, Nov. 28; Serial No. 577,863, published Aug. 22, 1950. Class 42.
Celluloid College, Mt. Vernon, N. Y. Motion picture film. 444,339, Nov. 28; Serial No. 512,155, published Sept. 5, 1950. Class 26.
Chandler Heights Citrus Growers, Chandler Heights, Ariz. Fresh citrus fruits. 534,154, Nov. 28; Serial No. 578,074. Class 46.
Chase-Shawmut Company, The, Newburyport, Mass. Current-limiting fuses. 534,033, Nov. 28; Serial No. 581,405, published Aug. 22, 1950. Class 21.
Cheerio Toys & Games Limited, Toronto, Ontario, Canada. Moulds. 534,044, Nov. 28; Serial No. 582,456, published Aug. 22, 1950. Class 13.
Chester Cable Corp., Chester, N. Y. Plastic covered electric wire. 534,086, Nov. 28; Serial No. 585,887, published Aug. 22, 1950. Class 21.
Chicago Paints, Inc., Chicago, Ill. Asphalt roof paint. 533,911, Nov. 28; Serial No. 562,756, published Aug. 29, 1950. Class 16.
Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic riveting, chipping, calking, and stone hammers; etc. 274,689, renewed Sept. 2, 1950. O. G. Nov. 28. Class 23.
Chilton Paint Company, College Point, N. Y. Ready-mixed paints. 533,929, Nov. 28; Serial No. 567,323, published Aug. 15, 1950. Class 16.
Chi-Namel Paint and Varnish Co.: *See*—
Minnesota Linseed Oil Paint Co.
Chocolate Products Company: *See*—
Daigger Corporation.
Clark, John W. M., doing business under the name of John W. M. Clark Co., Athol, Mass. Remedy. 534,102, Nov. 28; Serial No. 587,317, published Sept. 5, 1950. Class 18.
Clark, John W. M., Co.: *See*—
Clark, John W. M.
Clark Thread Company, The, Newark, N. J., by The Clark Thread Company, Inc., Wilmington, Del., and Clarksdale, Ga. Thread. 274,234, Aug. 26, 1930. Republished Nov. 28. Class 43.
Clark Thread Company, Inc., The: *See*—
Clark Thread Company, The.
Coats, J. & P., (R. I.) Inc.
Clementson, C. & S., to Aktiebolaget Speedoll, Malmo-Limhamn, Sweden. Light upper lubrication oil. 267,584, renewed Feb. 25, 1950. O. G. Nov. 28. Class 15.
Cloverdale Knitwear Corporation, Brooklyn, N. Y. Children's and infants' sweaters. 534,071, Nov. 28; Serial No. 584,856, published Aug. 22, 1950. Class 39.
Coast Manufacturing & Supply Company, Livermore, Calif. Powder-train fuses. 274,947, Sept. 9, 1930. Republished Nov. 28. Class 9.
Coast Manufacturing & Supply Company, Livermore, Calif. Fuses. 274,948, Sept. 9, 1930. Republished Nov. 28. Class 9.
Coats, J. & P., (R. I.) Inc., Pawtucket, R. I., by The Clark Thread Company, Inc., Wilmington, Del., and Clarksdale, Ga. Thread. 273,482, Aug. 5, 1930. Republished Nov. 28. Class 43.
Cohen, Saul, doing business as Raynard Optical Co., Brooklyn, N. Y., assignee, by mesne assignments, of Raynard Optical Co. Optical goods. 534,134, Nov. 28; Serial No. 537,423. Class 26.
Cohn-Hall-Marx Co., assignor to United Merchants and Manufacturers Inc., New York, N. Y. Plastic film sheet material. 534,000, Nov. 28; Serial No. 577,869, published Aug. 22, 1950. Class 42.
College Town Foods: *See*—
Lefkowits-Elias Company.
Columbian Carbon Company, New York, N. Y. Carbon black for use in the rubber industry. 529,996, Aug. 29, 1950. Corrected. O. G. Nov. 28. Class 6.
Commercial Solvents Corporation, New York, N. Y. Crystalline procaine penicillin G and buffered crystalline penicillin G potassium for aqueous injection. 534,004, Nov. 28; Serial No. 578,117, published Sept. 5, 1950. Class 18.
Consolidated Cosmetics: *See*—
Veralin, Inc.

Consolidated Cosmetics, Chicago, Ill. Lipstick, face powder, perfume, cologne and brilliantine. 534,041, Nov. 28; Serial No. 582,028, published July 25, 1950. Class 51.

Cordero, Alberto, doing business as Monte Alto Company, New York, N. Y. Toilet soap. 534,032, Nov. 28; Serial No. 581,252, published Aug. 29, 1950. Class 52.

Corman & Wasserman, Inc., Baltimore, Md. Men's trousers. 533,855, Nov. 28; Serial No. 537,879, published Aug. 22, 1950. Class 39.

Corn Products Refining Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Laundry starch. 80,462, re-renewed Dec. 27, 1950. O. G. Nov. 28. Class 6.

Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Electric power supply units. 534,063, Nov. 28; Serial No. 584,322, published Aug. 22, 1950. Class 21.

Coroaire Heater Corporation, The, doing business under the name and style of Hot Boy, Inc., Cleveland, Ohio. Electrically operated air conditioning units. 534,054–5, Nov. 28; Serial Nos. 583,145–6, published Aug. 22, 1950. Class 34.

Cowan Publishing Corp.: *See*—
Radio Magazines, Inc.

Coward Shoe, Inc., The, New York, N. Y. Leather shoes. 533,908, Nov. 28; Serial No. 561,727, published Aug. 22, 1950. Class 39.

Crouch, Horace W., Fort Worth, Tex. Tooth powder. 534,151, Nov. 28; Serial No. 574,136. Class 51.

Daigger Corporation, to Chocolate Products Company, Chicago, Ill. Nonalcoholic, maltless chocolate beverage. 274,405, renewed Aug. 26, 1950. O. G. Nov. 28. Class 45.

D'Anna, Anthony M., doing business under the title of A. D. Manufacturing Co., Monroe, La. Artificial fish lures. 533,945, Nov. 28; Serial No. 569,931, published Aug. 22, 1950. Class 22.

Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixture and parts thereof. 534,094, Nov. 28; Serial No. 580,565, published Aug. 22, 1950. Class 21.

Delta Pine Products Corporation, The, Covington, La. Steam distilled turpentine, steam distilled dipentene, steam distilled pine oils, etc. 534,031, Nov. 28; Serial No. 580,927, published Aug. 22, 1950. Class 16.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,946–7, July 26, 1910. Republished Nov. 28. Class 46.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,949, July 26, 1910. Republished Nov. 28. Class 46.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,952, July 26, 1910. Republished Nov. 28. Class 46.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,954, July 26, 1910. Republished Nov. 28. Class 46.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 79,326, Aug. 30, 1910. Republished Nov. 28. Class 46.

Deming & Gould Co., Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 274,858, Sept. 9, 1930. Republished Nov. 28. Class 46.

Detrex Corporation, Detroit, Mich. Protective coatings; masking materials; and chemical paint removers. 533,867, Nov. 28; Serial No. 546,975, published Aug. 22, 1950. Class 16.

Detroit-Michigan Stove Company, Detroit, Mich. Gas cooking stoves and ranges. 534,110, Nov. 28; Serial No. 580,134, published Aug. 15, 1950. Class 34.

Distinctive Products Development Corp, Cincinnati, Ohio. Instruments adapted to time the permanent waving of human hair. 533,868, Nov. 28; Serial No. 547,329, published Sept. 5, 1950. Class 26.

Dripps, Emma J., Detroit Mich. Entertainment service. 534,124, Nov. 28; Serial No. 573,478, published Aug. 22, 1950. Class 107.

Drycrete Concrete Co., The: *See*—
Mowbray, Alexander C.

Du Bois Company, The: *See*—
Du Bois Soap Co., The.

Du Bois Soap Co., The, to The Du Bois Company, Cincinnati, Ohio. Preparation for cleaning terrazzo, marble, tile, etc. 273,183, renewed July 22, 1950. O. G. Nov. 28. Class 52.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubber-coated fabrics. 273,746, Aug. 12, 1930. Republished Nov. 28. Class 42.

Durst, John A., Jr., Mountain View, Calif. Fireplace grill. 534,009, Nov. 28; Serial No. 578,323, published Aug. 29, 1950. Class 34.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 533,897, Nov. 28; Serial No. 558,877, published Aug. 29, 1950. Class 1.

Eagle Pencil Company, by Eagle Pencil Company, New York, N. Y. Lead pencils. 49,122, Jan. 23, 1906. Republished Nov. 28. Class 37.

Eagle Pencil Company, by Eagle Pencil Company, New York, N. Y. Lead pencils. 60,765, Feb. 19, 1907. Republished Nov. 28. Class 37.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic enlargers, and parts thereof. 534,112, Nov. 28; Serial No. 590,015, published Aug. 15, 1950. Class 26.

Ebersole, Benjamin S., doing business as Allied Litho Supply Co., San Francisco, Calif. Varnish to be used as an additive to printing inks. 533,989, Nov. 28; Serial No. 576,963, Sept. 5, 1950. Class 11.

Eclipse Knitting Mills: *See*—
Berger, Isodor.

Eclipse Knitting Mills., Inc.: *See*—
Berger, Isodor.

Eclipse Sleep Products Inc., Brooklyn, N. Y. Mattresses. 534,160, Nov. 28; Serial No. 583,035. Class 32.

Ecusta Paper Corporation, Pisgah Forest, N. C. Cigarette paper. 529,416, Aug. 22, 1950. Corrected. O. G. Nov. 28. Class 8.

Electronics Systems Corp., Kansas City, Mo. Diminutive radio receiving sets. 533,981, Nov. 28; Serial No. 575,977, published Aug. 22, 1950. Class 21.

Elgin National Watch Company, Elgin, Ill. Watches and watchcases. 276,629, Oct. 21, 1930. Republished Nov. 28. Class 27.

Embassy Grocery Corp., New York, N. Y. Canned fruits, canned vegetables, and fruit preserves. 279,449, renewed Jan. 13, 1951. O. G. Nov. 28. Class 46.

Engineering Research Associates, Inc., Arlington, Va., and St. Paul, Minn. Electronic computing and data handling apparatus. 533,952, Nov. 28; Serial No. 571,017, published Sept. 5, 1950. Class 26.

Entona Company: *See*—
Fuller, Frank.

Eskimo Pie Corporation, Louisville, Ky., to Eskimo Pie Corporation, Bloomfield, N. J. Candies and frozen confections. 278,312, renewed Dec. 16, 1950. O. G. Nov. 28. Class 46.

Eskimo Pie Corporation, Louisville, Ky., to Eskimo Pie Corporation, Bloomfield, N. J. Candy covering for frozen confections. 279,732, renewed Jan. 20, 1951. O. G. Nov. 28. Class 46.

Esquire Novelty Co., New York, N. Y. Toys. 533,943, Nov. 28; Serial No. 569,439, published Aug. 15, 1950. Class 22.

Eston Chemicals, Inc., Los Angeles, Calif. Soil fumigant. 533,970, Nov. 28; Serial No. 573,832, published Aug. 22, 1950. Class 6.

Even-Pul Foundation, Inc., New York, N. Y. Girdles, corselets, brassières and corsets. 534,069, Nov. 28; Serial No. 584,804, published Aug. 22, 1950. Class 39.

Even-Pul Foundations, Inc., New York, N. Y. Brassières, girdles, corselets, etc. 534,070, Nov. 28; Serial No. 584,805, published Aug. 22, 1950. Class 39.

Express Rubber Co. Limited, The: *See*—
Popular Warehouses, Limited, The.

Fador Manufacturing Corp., Elmira, N. Y. Kit for making miniature models. 534,028, Nov. 28; Serial No. 580,655, published Aug. 15, 1950. Class 50.

Failing, George E., Supply Company, Enid, Okla. Portable earth drilling machines. 534,020, Nov. 28; Serial No. 579,919, published July 12, 1950. Class 23.

Falcon Packing Co. Inc., New York, N. Y. Bottled olives. 381,822, Oct. 8, 1940. Republished Nov. 28. Class 46.

Fales, Harold A., doing business as Fales Laboratories, Haverstraw, N. Y. Children's picture making set. 533,948, Nov. 28; Serial No. 570,294, published Aug. 15, 1950. Class 22.

Fales Laboratories: *See*—
Fales, Harold A.

Fansler, Walter A., doing business as Fuller Pharmaceutical Company, Minneapolis, Minn. Rectal suppositories. 533,884, Nov. 28; Serial No. 554,969, published July 25, 1950. Class 18.

Federated Department Stores, Inc., assignee: *See*—
Lazarus, F. & R., & Company, The.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 534,013, Nov. 28; Serial No. 579,273, published Aug. 29, 1950. Class 1.

Finkel Umbrella Frame Company, Inc., The, New York, N. Y. Beach and garden umbrellas, and outdoor metal furniture. 534,062, Nov. 28; Serial No. 584,275, published Aug. 15, 1950. Class 32.

Fisch & Company, Los Angeles, Calif. Cloth. 533,865, Nov. 28; Serial No. 546,766, published Aug. 29, 1950. Class 42.

Fitzpatrick, W. J., Company, The, Chicago, Ill. Machines of the type employing revolving blades. 534,027, Nov. 28; Serial No. 580,588, published June 27, 1950. Class 23.

Flavour Candy Company, The, Chicago, Ill. Candy. 533,874, Nov. 28; Serial No. 549,797, published July 4, 1950. Class 46.

Fleron, M. M. & Son, Inc., Trenton, N. J. Electrical apparatus. 533,849, Nov. 28; Serial No. 531,902, published Aug. 22, 1950. Class 21.

Food Machinery and Chemical Corporation, New York, N. Y. Insecticide. 534,093, Nov. 28; Serial No. 586,531, published Sept. 5, 1950. Class 6.

Ford Steel Products Corporation, Tarrytown, N. Y. Hot water range boilers. 533,923, Nov. 28; Serial No. 585,616, published Aug. 22, 1950. Class 34.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper paper towels, paper napkins, etc. 534,133, Nov. 28; Serial No. 537,035. Class 37.

Fowler, Roscoe, doing business as Sturdee Steel Products, Los Angeles, Calif. Builders' hardware. 534,128, Nov. 28; Serial No. 519,009. Class 13.

Fox, Irving, doing business as Hollywood Youth, Los Angeles, Calif. Panty-girdles. 533,937, Nov. 28; Serial No. 572,093, published Aug. 22, 1950. Class 39.

Frank Brothers Footwear, Inc., New York, N. Y. Shoes and slippers. 534,059, Nov. 28; Serial No. 583,432, published Aug. 22, 1950. Class 39.

Freeport Sulphur Company, doing business under the divisional name of Tainton Products Company, Baltimore, Md. Articles of hardware. 533,988, Nov. 28; Serial No. 576,798, published Sept. 5, 1950. Class 13.

French, Shriner & Urner Manufacturing Co., Boston, Mass. Shoes. 533,987, Nov. 28; Serial No. 576,676, published Aug. 22, 1950. Class 39.

Frye, John A., Shoe Company, Inc., Marlboro, Mass. Men's leather boots and shoes. 534,067–8, Nov. 28; Serial Nos. 584,760–1, published Aug. 22, 1950. Class 39.

Fuller Brush Company, The, Hartford, Conn. Combs. 534,136, Nov. 28; Serial No. 548,952. Class 40.

Fuller, Frank, New York, N. Y., to Entona Company, Hingham, Mass. Suppositories. 35,888, re-renewed Feb. 12, 1951. O. G. Nov. 28. Class 18.

Fuller Pharmaceutical Company: *See*—
Fansler, Walter A.

Gau, Elmond F., doing business as United States Stone Company, Fort Worth, Tex. Cut stone. 534,135, Nov. 28; Serial No. 543,915. Class 12.

Gemex Company, Union, N. J. Watch bracelets. 534,085, Nov. 28; Serial No. 585,791, published Sept. 5, 1950. Class 28.

Gemological Institute of America, Los Angeles, Calif. Dark-field illuminators. 533,880, Nov. 28; Serial No. 553,959, published Aug. 15, 1950. Class 26.

General Crushed Stone Co., The, Easton, Pa. Asphaltic concrete and a mixture of asphalt and stone screening. 534,143, Nov. 28; Serial No. 560,558. Class 12.

General Drug Company, New York, to Plexo Preparations, Inc., Long Island City, N. Y. Toilet creams, toilet waters, and hair-tonics. 80,911, re-renewed Feb. 14, 1951. O. G. Nov. 28. Class 51.

General Dyestuff Corporation: *See*—
I. G. Farbenindustrie Aktiengesellschaft.

General Time Corporation, New York, N. Y. Clocks and watches. 534,019, Nov. 28; Serial No. 579,683, published Sept. 5, 1950. Class 27.

General Woodcraft Co., Inc., North Bergen, N. J. Combination storm sashes and screens. 534,021, Nov. 28; Serial No. 580,130, published Aug. 15, 1950. Class 12.

General Woodcraft Co., Inc., North Bergen, N. J. Doors, windows, sashes, etc. 534,022, Nov. 28; Serial No. 580,131, published Aug. 15, 1950. Class 12.

Gerard, Clarence C., doing business as C. C. G. Products, Bay City, Mich. Insecticides. 534,159, Nov. 28; Serial No. 582,783. Class 6.

Glemby Company, Inc., The, New York, N. Y. Hair nets. 530,703, Sept. 12, 1950. Corrected. O. G. Nov. 28. Class 39.

Glen Raven Knitting Mills, Inc., Glen Raven, N. C. Women's hosiery. 534,076, Nov. 28; Serial No. 585,064, published Aug. 22, 1950. Class 39.

Glolite Corporation, The, Chicago, Ill. Christmas tree decorations, wall plaques, and table and mantle decorations. 534,144, Nov. 28; Serial No. 562,135. Class 21.

Gloversville Knitting Company, Gloversville, N. Y. Knitted gloves and knitted mittens. 534,079, Nov. 28; Serial No. 585,376, published Aug. 22, 1950. Class 39.

Godman, H. C., Company, The, Columbus, Ohio. Shoes. 534,147, Nov. 28; Serial No. 567,770. Class 39.

Goldwaters Incorporated, Phoenix, Ariz. Ladies' and girls' dresses, frocks, blouses, etc. 533,974, Nov. 28; Serial No. 574,617, published Aug. 15, 1950. Class 39.

Goodman Manufacturing Company, Chicago, Ill. Electric mining locomotives. 533,922, Nov. 28; Serial No. 565,549, published Aug. 22, 1950. Class 21.

Goon, Theodore J., Corona Del Mar, Calif. Clappers. 534,153, Nov. 28; Serial No. 577,383. Class 36.

Greif, L., & Bro., Inc., Baltimore, Md. Men's and boys' topcoats, overcoats, vests, etc. 533,863, Nov. 28; Serial No. 545,477, published Aug. 22, 1950. Class 39.

Griswold, Howard S., doing business as Men-Zo-Lin Products Co., Fredonia, N. Y. Preparation for removing corns, callouses, warts, etc. 276,005, renewed Oct. 7, 1950. O. G. Nov. 28. Class 18.

Gynex Corporation, New York, N. Y. Syringes. 276,732, renewed Oct. 28, 1950. O. G. Nov. 28. Class 44.

Haartz-Mason, Inc., Watertown, Mass. Electrical insulatory rubber tape or splicing compounds. 534,145, Nov. 28; Serial No. 565,262. Class 21.

Haddock, Urban R., Springdale, Ark. Liquid automobile polish. 534,035, Nov. 28; Serial No. 581,662, published Aug. 29, 1950. Class 4.

Hall & Co., Inc., Spartanburg, S. C. Electrical supplies. 533,912, Nov. 28; Serial No. 562,851, published Aug. 29, 1950. Class 21.

Hamilton Watch Company, Lancaster, Pa. Watches. 533,870, Nov. 28; Serial No. 548,255, published Sept. 5, 1950. Class 27.

Hayman, Oscar, Fabrics, Inc., New York, N. Y. Piece goods. 534,115, Nov. 28; Serial No. 592,205, published Aug. 29, 1950. Class 42.

Hazeltine Electronics Corporation, Little Neck, N. Y. Radio transmitting sets, radio frequency tuners, and electron tube oscillators. 534,060, Nov. 28; Serial No. 583,929, published Aug. 22, 1950. Class 21.

Heller Brothers Company, Newark, N. J. Files. 534,118, Nov. 28; Serial No. 595,460, published Aug. 1, 1950. Class 23.

Heuck, M. E.: *See*—
Heuck, Mathilde E.

Heuck, Mathilde E., doing business as M. E. Heuck, Cincinnati, Ohio. Metal skewers. 534,087, Nov. 28; Serial No. 585,977, published Aug. 22, 1950. Class 13.

Hightower Laboratories, Los Angeles, Calif. Medicinal dosages and dietary supplements. 534,158, Nov. 28; Serial No. 582,307. Class 18.

Higley Chemical Company, Dubuque, Iowa. Penetrating liquid. 533,841, Nov. 28; Serial No. 520,033, published June 21, 1949. Class 16.

Hollywood Youth: *See*—
Fox, Irving.

Home Pride Products: *See*—
Stone, Buford R.

Hot Boy, Inc.: *See*—
Coroaire Heater Corporation, The.

House of Lowell, Inc., Piqua, Ohio. Cosmetics. 534,030, Nov. 28; Serial No. 580,840, published July 25, 1950. Class 51.

Hyer, C. H., & Sons, Olathe, Kans. Boots and shoes. 534,045–6, Nov. 28; Serial No. 582,479–80, published Aug. 22, 1950. Class 39.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, by Verona Chemical Company, Newark, N. Y. Odoriferous and aromatic chemicals. 272,127, July 1, 1930. Republished Nov. 28. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, to General Dyestuff Corporation, New York, N. Y., Dyestuffs. 278,923, renewed Jan. 6, 1951. O. G. Nov. 28. Class 6.

Ideal Novelty & Toy Co., Hollis, N. Y. Dolls. 533,851, Nov. 28; Serial No. 535,323, published Sept. 7, 1948. Class 22.

Illinois Clay Products Company, Joliet, Ill. Mineral thermal insulation. 533,875, Nov. 28; Serial No. 549,931, published Sept. 20, 1949. Class 12.

Income Tax Service Co.: *See*—
McNeil, G. A.

Industrial Scientific Company, New York, N. Y. Indicating, signaling and recording gauges. 533,917, Nov. 28; Serial No. 563,856, published Sept. 5, 1950. Class 26.

Interchemical Corporation, New York, N. Y. Printing ink. 534,077, Nov. 28; Serial No. 585,069, published Aug. 29, 1950. Class 11.

Jesberg, Edward G., Los Angeles, Calif. Games. 533,941, Nov. 28; Serial No. 568,955, published Aug. 15, 1950. Class 22.

Jet Products Co., New York, N. Y. Liquid composition. 534,166, Nov. 28; Serial No. 590,507. Class 6.

Johnson, S. C., & Son, Inc., Racine, Wis. Electric floor polishing machines. 533,904, Nov. 28; Serial No. 560,205, published Aug. 22, 1950. Class 21.

Johnson, S. C., & Son, Inc., Racine, Wis. Chemical composition. 533,932, Nov. 28; Serial No. 568,376, published June 27, 1950. Class 6.

Jordan Marsh Company, Boston, Mass. Children's shoes. 534,084, Nov. 28; Serial No. 585,753, published Aug. 22, 1950. Class 39.

Junior Toy Corporation, Hammond, Ind. Velocipedes and tricycles. 533,990, Nov. 28; Serial No. 577,192, published Aug. 15, 1950. Class 22.

Juvenile Underwear Corp., Brooklyn, N. Y. Children's pajamas and nightgowns. 534,080, Nov. 28; Serial No. 585,380, published Aug. 22, 1950. Class 39.

Kalamazoo Vegetable Parchment Co., Parchment, Mich. Dusting and polishing paper. 533,910, Nov. 28; Serial No. 561,830, published Aug. 29, 1950. Class 37.

Kaufman, Joseph: *See*—
Arlington Silk Hosiery Co., Inc.

Kay Electric Company, Pine Brook, N. J. Crystal controlled multi-channel oscillator. 533,966, Nov. 28; Serial No. 573,557, published Sept. 5, 1950. Class 26.

Kay Electric Company, Pine Brook, N. J. Spectrum analyzer set or apparatus. 533,967, Nov. 28; Serial No. 573,559, published Sept. 5, 1950. Class 26.

Keasbey & Mattison Company, Ambler, Pa. Sheets, sheathings, slabs, etc. 533,971, Nov. 28; Serial No. 573,949, published Aug. 29, 1950. Class 12.

Kelley-Koett Manufacturing Company, The, Covington, Ky. Compound of barium sulphate used in connection with X-ray examinations. 534,109, Nov. 28; Serial No. 588,864, published Sept. 5, 1950. Class 18.

Kellogg Switchboard and Supply Company, Chicago, Ill. Insulated wire for interconnecting electrical devices. 534,150, Nov. 28; Serial No. 572,904. Class 21.

Keuffel & Esser Company, New York, N. Y., to Keuffel & Esser Company, Hoboken, N. J. Mathematical and drawing instruments. 35,513, re-renewed Dec. 4, 1950. O. G. Nov. 28. Class 26.

King Extract Company, San Francisco, Calif. Flavoring extracts. 533,861, Nov. 28; Serial No. 543,609, published June 27, 1950. Class 46.

Klem Chemicals, Inc., Dearborn, Mich. Water soluble cleaning compositions. 533,984, Nov. 28; Serial No. 576,382, published Aug. 29, 1950. Class 52.

Kurfees, J. F., Paint Company, Louisville, Ky. Prepared or ready-mixed liquid paint enamels, varnish stains, undercoats, etc. 533,852, Nov. 28; Serial No. 535,542, published Aug. 22, 1950. Class 16.

La Crosse Rubber Mills Company, La Crosse, Wis. Rubber boots and rubber overshoes. 533,960, Nov. 28; Serial No. 572,671, published Aug. 22, 1950. Class 39.

Lanvin-Parfums, Inc., New York, N. Y. Perfumes and toilet waters. 521,642, Feb. 28, 1950. Corrected. O. G. Nov. 28. Class 51.

Lanvin-Parfums, Inc., New York, N. Y. Perfumes, toilet waters. 527,739, July 18, 1950. Corrected. O. G. Nov. 28. Class 51.

La Renz Company, The, Cleveland, Ohio. Musical toy egg. 533,977, Nov. 28; Serial No. 574,912, published Aug. 22, 1950. Class 22.

Lazarus, F. & R., & Company, The, Columbus, assignor to Federated Department Stores, Inc., Cincinnati, Ohio. Women's shoes. 533,856, Nov. 28; Serial No. 537,903, published Aug. 29, 1950. Class 39.

Lear, Incorporated, Grand Rapids, Mich. Radio broadcast and beacon receiver. 534,162, Nov. 28; Serial No. 584,336. Class 21.

Lefkowits-Elias Company, to College Town Foods, New Brunswick, N. J. Tomato catsup, canned shrimp, and canned apple sauce, etc. 280,134, renewed Feb. 10, 1951. O. G. Nov. 28. Class 46.

Legge, Walter G., Company, Inc., New York, N. Y. Grounding device. 534,002, Nov. 28; Serial No. 578,032, published Aug. 29, 1950. Class 21.

Lehon Company, The, Chicago, Ill. Asphalt roofing, asphalt roofing shingles, etc. 534,131, Nov. 28; Serial No. 535,572. Class 12.

Leibowitz, Sidney, doing business as Super Notion Co., New York, N. Y. Slide fasteners. 533,896, Nov. 28; Serial No. 558,564, published Sept. 5, 1950. Class 13.

Lempco Products, Inc., Bedford, Ohio. Drive shafts, pinion shafts, worm gears and worm shafts. 278,728, renewed Dec. 30, 1950. O. G. Nov. 28. Class 23.

Les Parfums De Dana, Inc., New York, N. Y. Compacts and lipstick holders. 534,148, Nov. 28; Serial No. 569,864. Class 2.

Levay, Joseph, Inc., New York, N. Y. Ladies' and misses' dresses, jackets, blouses, etc. 534,105, Nov. 28; Serial No. 587,493, published Aug. 29, 1950. Class 39.

Line Material Company, Milwaukee, Wis., now by merger McGraw Electric Company. Fuse cutouts and disconnect switches. 533,907, Nov. 28; Serial No. 561,471, published Aug. 22, 1950. Class 21.

Little Rock Tent and Awning Company, Little Rock, Ark. Tents, wagon and truck covers, etc. 534,088, Nov. 28; Serial No. 586,094, published Aug. 22, 1950. Class 50.

Lo-Calory Food Corporation, New York, N. Y. Hair shampoo. 534,161, Nov. 28; Serial No. 584,141. Class 52.

Lorraine Food Products, Inc., New York and Yonkers, N. Y. Canned fruits, canned vegetables, and canned fish. 533,887, Nov. 28; Serial No. 556,207, published July 18, 1950. Class 46.

Lov-E Brassiere Company, doing business under the name Lov-E Studios of Hollywood, Los Angeles, Calif. Brassières. 534,149, Nov. 28; Serial No. 572,181. Class 39.

Lov-E Studios of Hollywood: *See*—
Lov-E Brassiere Company.

Lustig's, to Lustig's Inc., Youngstown, Ohio. Boots and shoes. 274,847, renewed Sept. 9, 1950. O. G. Nov. 28. Class 39.

Lustig's Inc.: *See*—
Lustig's.

Magor Car Corporation, New York, N. Y., and Passaic, N. J. Hand shovels, scoops, and spades. 533,840, Nov. 28; Serial No. 519,887, published Aug. 1, 1950. Class 23.

Maimin, H., Co. Inc., New York, N. Y. Electric machines. 533,998, Nov. 28; Serial No. 577,483, published Aug. 29, 1950. Class 21.

Mallinckrodt Chemical Works, St. Louis, Mo. Acetaldehyde, acetamide, acetanilid, etc. 533,844, Nov. 28; Serial No. 526,920, published Feb. 22, 1949. Class 6. Wood's metal. Serial No. 568,648, published July 11, 1950. Class 14. Flatting agent. Serial No. 568,647, published Aug. 22, 1950. Class 16. (Consolidated certificates. Classes 6, 14 and 16.)

Mallory Electric Corporation, Detroit, Mich. Ignition systems. 533,982, Nov. 28; Serial No. 575,999, published Aug. 22, 1950. Class 21.

Manufacture de Produits Speciaux Robert Levaux, Ingénieur & Cie. Breteuil-sur-Noye, France. Preparation for treating sized or dressed textile materials. 533,983, Nov. 28; Serial No. 576,124, published Aug. 29, 1950. Class 6.

Marchant Calculating Machine Company, Oakland, Calif. Calculating machines. 533,950, Nov. 28; Serial No. 570,862, published Sept. 5, 1950. Class 26.

Marroquin, Carlos C., doing business as Nova Laboratories, San Antonio, Tex. Medicinal eye cleaning solution. 534,065, Nov. 28; Serial No. 584,686, published Sept. 5, 1950. Class 18.

Mars Signal-Light Company, Chicago, Ill. Electric headlights and signal lamps etc. 533,866, Nov. 28; Serial No. 546,908, published Aug. 22, 1950. Class 21.

Maus, Geo. H., Inc., Amsterdam, N. Y. Bamboo fishing poles, bamboo vaulting poles, and bamboo ski poles. 533,944, Nov. 28; Serial No. 569,873, published Jan. 24, 1950. Class 22.

May Department Stores Company, The, New York, N. Y., and St. Louis, Mo. Men's clothing. 533,951, Nov. 28; Serial No. 570,976, published Aug. 22, 1950. Class 39.

May Department Stores Company, The, St. Louis, Mo. Ladies' underwear; men's pajamas and underwear. 534,092, Nov. 28; Serial No. 586,491, published Aug. 15, 1950. Class 39.

McColpin-Christie Corporation, Ltd., Los Angeles, Calif. Dry plate rectifiers. 529,953, Aug. 29, 1950. Corrected. O. G. Nov. 28. Class 21.

McGraw Electric Company: *See*—
Line Material Company.

McHutchison & Co., New York, N. Y. Easter lily bulbs. 534,061, Nov. 28; Serial No. 584,070, published Aug. 29, 1950. Class 1.

McKay Products Corporation, The, New York, N. Y. Ladies' underwear. 534,015, Nov. 28; Serial No. 579,336, published Aug. 15, 1950. Class 39.

McNeil, G. A., doing business as Income Tax Service Co., Alameda, Calif. Income tax accounting services. 534,122, Nov. 28; Serial No. 545,587, published Aug. 22, 1950. Class 101.

Mechanical and Electrical Development Company, Kansas City, Mo. Instruments for testing the di-electric capacity of insulation. 533,885, Nov. 28; Serial No. 554,993, published Sept. 5, 1950. Class 26.

Medammin Corp., The, New York and Monroe, N. Y. Tooth powder and tooth paste. 534,029, Nov. 28; Serial No. 580,791, published Aug. 15, 1950. Class 51.

Men-Zo-Lin Products Co.: *See*—
Griswold, Howard S.

Mercantile Stores Company, Inc., Wilmington, Del. Lamp shades. 533,949, Nov. 28; Serial No. 570,623, published Aug. 29, 1950. Class 21.

Mercantile Stores Co., Inc., Wilmington, Del. Radio receiving sets and radio phonograph combinations. 533,958, Nov. 28; Serial No. 572,184, published Aug. 29, 1950. Class 21.

Mergenthaler Linotype Company, Brooklyn, N. Y. Alloy coating the metal surfaces of type casting machine parts. 534,125, Nov. 28; Serial No. 579,881, published Aug. 22, 1950. Class 106.

Metallizing Engineering Co. Inc., Long Island City, N. Y. Irrigating water sprinklers. 534,036, Nov. 28; Serial No. 581,724, published Sept. 5, 1950. Class 13.

Meyer Chemical Company, Detroit, Mich. Biochemicals, hormones and vitamins, etc. 444,342, Nov. 28; Serial No. 518,160, published Aug. 29, 1950. Class 18.

Meyrowitz, E. E., Inc., New York, N. Y. Goggles and eye protectors. 274,774, renewed Sept. 9, 1950. O. G. Nov. 28. Class 26.

Midland Shoe Company, St. Louis, Mo. Boys' and girls' shoes. 533,924, Nov. 28; Serial No. 565,794, published Aug. 22, 1950. Class 39.

Midland Shoe Company, St. Louis, Mo. Men's and boys' shoes. 533,925, Nov. 28; Serial No. 565,795, published Aug. 22, 1950. Class 39.

Minnesota Linseed Oil Paint Co., doing business as The Chi-Namel Paint and Varnish Co., Minneapolis, Minn., now by change of name Minnesota Paints, Inc. Porch and deck paint. 533,846, Nov. 28; Serial No. 527,955, published Aug. 22, 1950. Class 16.

Minnesota Paints, Inc.: *See*—
Minnesota Linseed Oil Paint Co.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Combination rubber and leather shoes and composition soles for shoes. 274,046, renewed Aug. 19, 1950. O. G. Nov. 28. Class 39.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoes. 533,954, Nov. 28; Serial No. 571,349, published Aug. 22, 1950. Class 39.

Mission Appliance Corporation, Hawthorne, Calif. Anode devices for insertion in water heaters. 533,956, Nov. 28; Serial No. 571,868, published Aug. 22, 1950. Class 21.

Mocq, Louis., to Rejuvia Beauty Laboratories, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 279,989, renewed Feb. 10, 1951. O. G. Nov. 28. Class 51.

Mohawk Business Machines Corporation, New York, N. Y. Electrical sound recording and reproducing sets. 534,052, Nov. 28; Serial No. 583,105, published Aug. 22, 1950. Class 21.

Monrovia Nursery Company, Monrovia, Calif. Plants, trees, shrubs, etc. 534,014, Nov. 28; Serial No. 579,285, published Aug. 29, 1950. Class 1.

Monsanto Chemical Company, St. Louis, Mo. Coating compositions, enamels, paint type fillers, etc. 533,882, Nov. 28; Serial No. 554,909, published Aug. 22, 1950. Class 16.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resin coating compositions. 533,883, Nov. 28; Serial No. 554,914, published Aug. 22, 1950. Class 16.

Monte Alto Company: *See*—
Cordero, Alberto.

Moore, W. D., Company: *See*—
Moore, Werton D.

Moore, Werton D., doing business as W. D. Moore Company, Tulsa, Okla. Coating material. 533,879, Nov. 28; Serial No. 553,892, published Aug. 15, 1950. Class 12.

Mowbray, Alexander C., doing business as The Dryerete Concrete Co., Greenville and Flomaton, Ala. Dry, mixed concrete. 534,090, Nov. 28; Serial No. 586,298, published Aug. 15, 1950. Class 12.

Munro & Company Limited, Edinburgh, Scotland. Socks, stockings, scarves, etc. 533,889, Nov. 28; Serial No. 556,515, published Aug. 15, 1950. Class 39.

Myer Bottling Co., Inc., to Myer 1890 Bottling Co., Inc., New York, N. Y. Nonalcoholic, noncereal, maltless beverages. 275,934, renewed Oct. 7, 1950. O. G. Nov. 28. Class 45.

Myer 1890 Bottling Co., Inc.: *See*—
Myer Bottling Co., Inc.

National Baseball Hall of Fame and Museum, Inc., Cooperstown, N. Y. Souvenirs. 533,905, Nov. 28; Serial No. 561,257, published Aug. 29, 1950. Class 50.

National Electric Products Corporation: *See*—
American Circular Loom Company.

National Electric Products Corporation, Pittsburgh, Pa. Armored electric conductors or cables. 271,837, renewed June 17, 1950. O. G. Nov. 28. Class 21.

National Electric Products Corporation, Pittsburgh, Pa. Armored electric conductors or cables. 271,911, renewed June 17, 1950. O. G. Nov. 28. Class 21.

National Malleable and Steel Castings Company, Cleveland, Ohio. Grinding balls and slugs for cement mills and the like. 275,793, renewed Sept. 30, 1950. O. G. Nov. 28. Class 4.

National Malleable and Steel Castings Company, Cleveland, Ohio. Grate bars, grate parts, and stoker links. 276,054, renewed Oct. 7, 1950. O. G. Nov. 28. Class 34.

National Musical String Co., New Brunswick, N. J. Strings for musical instruments. 81,021, re-renewed Feb. 21, 1951. O. G. Nov. 28. Class 36.

Nethercutt, Jack B., doing business as Nethercutt Laboratories, Santa Monica, Calif. Cosmetics. 534,129, Nov. 28; Serial No. 522,283. Class 51.

Nethercutt Laboratories: *See*—
Nethercutt, Jack B.

Neuwald, Eugene H., New York, N. Y. Shoes. 534,111, Nov. 28; Serial No. 589,269, published Aug. 22, 1950. Class 39.

New Era Milling Company, The, Arkansas City, Kans. Wheat flour. 274,290–1, renewed Aug. 26, 1950. O. G. Nov. 28. Class 46.

New Era Milling Company, The, Arkansas City, Kans. Wheat flour. 274,831, renewed Sept. 9, 1950. O. G. Nov. 28. Class 46.

Nova Laboratories: *See*—
Marroquin, Carlos C.

Novel, Incorporated, Sparta, Wis. Glaze paints. 534,156, Nov. 28; Serial No. 579,883. Class 16.

Novel, Incorporated, Sparta, Wis. Water-color paints. 534,157, Nov. 28; Serial No. 579,884. Class 16.

Ohio Bronze Powder Company, The, Cleveland, Ohio. Bronze powder for use in paints. 534,146, Nov. 28; Serial No. 565,716. Class 16.

Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form for building and construction purposes. 534,024, Nov. 28; Serial No. 580,555, published Aug. 15, 1950. Class 12.

Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form for building and construction purposes. 534,025, Nov. 28; Serial No. 580,557, published Aug. 15, 1950. Class 12.

Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form for building and construction purposes. 534,026, Nov. 28; Serial No. 580,559, published Aug. 15, 1950. Class 12.

Olympic Radio & Television Inc., Long Island City, N. Y. Television receiving sets. 533,939, Nov. 28; Serial No. 568,750, published Aug. 29, 1950. Class 21.

Oronite Chemical Company: *See*—
Standard Oil Company of California.

Pacific American Fisheries, Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,988, July 26, 1910. Republished Nov. 28. Class 46.

Pacific American Fisheries, Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,990–2, July 26, 1910. Republished Nov. 28. Class 46.

Pacific American Fisheries, Chicago, Ill., by Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 78,999, July 26, 1910. Republished Nov. 28. Class 46.

Pacific American Fisheries, Inc.: *See*—
Deming & Gould Co.
Pacific American Fisheries.

Paramount Pictures Corporation: *See*—
Paramount Publix Corporation.

Paramount Publix Corporation, to Paramount Pictures Corporation, New York, N. Y. Moving-picture films. 279,933, renewed Feb. 3, 1951. O. G. Nov. 28. Class 26.

Park Sherman Co., Inc., Chicago, Ill. Mechanical book marks. 444,340, Nov. 28; Serial No. 512,693, published May 16, 1950. Class 37.

Parker-Kalon Corporation, New York, N. Y. Screws, etc. 534,165, Nov. 28; Serial No. 589,615. Class 13.

Pash, James J., doing business as Pediatric Drug Co., Somerville, Mass. Non-alcoholic and non-narcotic antitussive. 534,103, Nov. 28; Serial No. 587,353, published Sept. 5, 1950. Class 18.

Pasqual, Maria Blanca Canivell y: *See*—
Sanchez, Bernabe F.

Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paints. 533,906, Nov. 28; Serial No. 561,334, published Aug. 22, 1950. Class 16.

Peavey, F. H., & Company, Minneapolis, Minn. Grain and milling services. 534,119, Nov. 28; Serial No. 526,908, published Aug. 8, 1950. Class 105.

Peavey, F. H., & Company, Minneapolis, Minn. Grain and milling services. 534,120, Nov. 28; Serial No. 526,939, published Aug. 8, 1950. Class 105.

Peck, Stow & Wilcox Company, The, Southington, Conn. Bit braces, chucks, and chuck-jaws. 80,437, re-renewed Dec. 20, 1950. O. G. Nov. 28. Class 23.

Pediatric Drug Co.: *See*—
Pash, James J.

Perry Knitting Company, The, Perry, N. Y. Bootees. 534,072, Nov. 28; Serial No. 584,921, published Aug. 22, 1950. Class 39.

Petterson, J. C., Company: *See*—
Petterson, John C.

Petterson, John C., doing business as J. C. Petterson Company, Altadena and Alhambra, Calif. Sectional wall and toilet wall partitions and doors. 533,986, Nov. 28; Serial No. 576,633, published Aug. 15, 1950. Class 12.

Pharmax Limited, Kent, England. Embrocation. 533,895, Nov. 28; Serial No. 557,869, published July 25, 1950. Class 18.

Phillips Petroleum Company, Bartlesville, Okla. Livestock spray, soluble powder type radiator cleaner, etc. 529,105, Aug. 15, 1950. Corrected. O. G. Nov. 28, Class 52.

Phoenix Oil Company, Inc., Augusta, Ga. Wood preserver. 534,083, Nov. 28; Serial No. 585,720, published Sept. 5, 1950. Class 6.

Pick, Albert Company, Inc., Chicago, Ill. Metal polish, dishwashing cleanser, liquid hand soap, etc. 533,850, Nov. 28; Serial No. 534,715, published Aug. 29, 1950. Class 4.

Pioneer Television Company, Philadelphia, Pa. Radio and television receivers. 534,007, Nov. 28; Serial No. 578,282, published Aug. 29, 1950. Class 21.

Pitman-Moore Co.: *See*—
Allied Laboratories, Inc.

Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Coal. 533,934–7, Nov. 28; Serial Nos. 568,445–8, published Aug. 15, 1950. Class 1.

Plainview Cotton Oil Co., Inc., Plainview, Tex., assignor To Anderson-Clayton Industries, Inc., to Anderson, Clayton & Co., Houston, Tex. Feeds for domestic animals and poultry. 274,361, renewed Aug. 26, 1950. O. G. Nov. 28. Class 46.

Plexo Preparations, Inc.: *See*—
General Drug Company.

Pollock Paper Corporation, Dallas, Tex. Household dispenser. 534,016, Nov. 28; Serial No. 579,450, published Aug. 22, 1950. Class 13.

Pomeranz, Josef J., Helsinfors, Finland. Cosmetics. 533,881, Nov. 28; Serial No. 554,255, published Sept. 5, 1950. Class 51.

Popular Warehouses, Limited, The, to The Express Rubber Co. Limited, London, England. Raincoats. 277,802, renewed Nov. 25, 1950. O. G. Nov. 28. Class 39.

Popular Warehouses, Limited, The, to The Express Rubber Co. Limited, London, England. Raincoats. 277,804, renewed Nov. 25, 1950. O. G. Nov. 28. Class 39.

Por Larrañaga, Fabrica de Tobacos, S. A., Habana, Cuba. Cigars. 277,130–1, Nov. 4, 1930. Republished Nov. 28. Claim 17.

Powell, James, & Sons (Whitefriars) Limited, Wealdstone, England. Table glassware, glass pipettes and tubing, etc. 533,901–02, Nov. 28; Serial Nos. 560,050–1, published Aug. 15, 1950. Class 33.

Product Development Company, Arlington, N. J. Coaxial cables, electrical connectors, and insulated wires and cables, etc. 534,101, Nov. 28; Serial No. 587,087, published Aug. 29, 1950. Class 21.

Protection Products Manufacturing Co., Kalamazoo, Mich. Liquid water repellent. 533,847, Nov. 28; Serial No. 530,565, published Aug. 15, 1950. Class 12.

Purity Paint Products Corporation, Brooklyn, N. Y. Flat oil finish paint. 533,915, Nov. 28; Serial No. 563,634, published Aug. 29, 1950. Class 16.

Q-Tips Inc., Long Island City, N. Y. Powder for infants. 533,950, Nov. 28; Serial No. 567,714, published Aug. 29, 1950. Class 51.

Quaker Chemical Products Corporation, Conshohocken, Pa. Quaternary ammonium compounds. 533,927, Nov. 28; Serial No. 567,009, published Aug. 29, 1950. Class 6.

Quaker Chemical Products Corporation, Conshohocken, Pa. Chemical compound. 534,005, Nov. 28; Serial No. 578,165, published Sept. 5, 1950. Class 6.

Radiant Wash Solution Co.: *See*—
Call, Minnie T.

Radio Corporation of America, New York, N. Y. Toy cardboard collapsible trucks. 534,081, Nov. 28; Serial No. 585,473, published Aug. 15, 1950. Class 22.

Radio Magazines, Inc., to Cowan Publishing Corp., New York, N. Y. Monthly publications, etc. 412,834, Mar. 27, 1945. New certificate. O. G. Nov. 28. Class 38.

Rank, J. Arthur, Organisation Limited, London, England. Cinematograph films. 533,985, Nov. 28; Serial No. 576,554, published Sept. 5, 1950. Class 26.

Raser, George B., Astabula, Ohio. Board game. 533,877, Nov. 28; Serial No. 551,199, published Aug. 22, 1950. Class 22.

Rauh, E., & Sons Fertilizer Company, Indianapolis, Ind. Fertilizers. 274,369, renewed Aug. 26, 1950. O. G. Nov. 28. Class 10.

Raynard Optical Co.: *See*—
Cohen, Saul.

Raytheon Manufacturing Company, Newton, Mass. Radio receiving tubes. 533,909, Nov. 28; Serial No. 561,773, published Aug. 29, 1950. Class 21.

Raythron Corporation, Hoboken, N. J. Quick-action starter switches. 534,138, Nov. 28; Serial No. 553,746. Class 21.

Reeder, Oliver, & Son, by Oliver Reeder & Son, Incorporated, Baltimore, Md. Marine paint. 80,153, Nov. 8, 1910. Republished Nov. 28. Class 16.

Reeder, Oliver, & Son, Incorporated: *See*—
Reeder, Oliver & Son.

Reefe, Francis E., Chicago, Ill. Rubber soap dish. 534,152, Nov. 28; Serial No. 576,770. Class 2.

Rejuvia Beauty Laboratories, Inc.: *See*—
Mocq, Louis.

Republic Fuel Co., Bay City, Mich. Coal. 275,260, renewed Sept. 16, 1950. O. G. Nov. 28. Class 1.

Rhode Island Laboratories, Inc., West Warwick, R. I. Electrical advertising signs. 444,337, Nov. 28; Serial No. 491,729, published Aug. 29, 1950. Class 21.

Richards Co., Inc., Salt Lake City, Utah. Candy. 533,864, Nov. 28; Serial No. 545,534, published Mar. 15, 1949. Class 46.

Robbins & Myers, Inc., Springfield, Ohio. Automatic butterfly damper stacks. 533,976, Nov. 28; Serial No. 574,863, published Aug. 15, 1950. Class 34.

Robinette, W. C., Co., South Pasadena, Calif. Electrical contacts, devices, controlling pressure between electrical contacts, etc. 533,913, Nov. 28; Serial No. 562,887, published Aug. 22, 1950. Class 21.

Rose Packing Company: *See*—
Vette & Zuncker Packing Company.

Rosenberg, Sydney, doing business as Tam O' Shanter Sportswear Co., Boston, Mass., by Tam O' Shanter Sportswear, Inc., Manchester, N. H. Men's, children's and infants' cotton clothing. 442,940, June 21, 1949. Republished Nov. 28. Class 39.

Royal Tops Mfg. Co., Long Island City, N. Y. Spinning tops. 533,946, Nov. 28; Serial No. 569,996, published Aug. 15, 1950. Class 22.

Rubinstein, Helena, Inc., New York, N. Y. Skin oil, astringent skin lotion, astringent skin cream oil, etc. 533,839, Nov. 28; Serial No. 514,670, published Aug. 29, 1950. Class 51.

Rutshaw, Arthur J., Chicago, Ill. Healing and palliative salves. 533,921, Nov. 28; Serial No. 564,654, published July 25, 1950. Class 18.

Saaty Corporation, Providence, R. I. Fuel and air mixers for internal combustion engines. 534,001, Nov. 28; Serial No. 577,904, published June 6, 1950. Class 23.

Saginaw Products Corporation: *See*—
Saginaw Stamping & Tool Company.

Saginaw Stamping & Tool Company, to Saginaw Products Corporation, Saginaw, Mich. Conveyor trolley roller turns, chain rollers, etc. 274,723, renewed Sept. 2, 1950. O. G. Nov. 28. Class 23.

St. Marys Woolen Manufacturing Company, St. Marys, Ohio. Woolen blankets. 533,859, Nov. 28; Serial No. 542,784, published Aug. 22, 1950. Class 42.

Sanchez, Bernabe F., to Maria Blanca Canivell y Pasqual, Malaga, Spain. Tonic and tissue builder. 270,446, renewed May 6, 1950. O. G. Nov. 28. Class 18.

Sanders, M. R., & Sons, Inc., Cincinnati, Ohio. Women's and misses' dresses, shirts, play suits, etc. 533,995, Nov. 28; Serial No. 577,346, published Aug. 22, 1950. Class 39.

Sanitube Company, The: *See*—
Bachmann, Robert A.

Schaeffer Mfg. Co., St. Louis, Mo. Soapless detergent. 534,037, Nov. 28; Serial No. 581,737, published Aug. 29, 1950. Class 52.

Schalk Chemical Company, Los Angeles, Calif. Cement. 533,878, Nov. 28; Serial No. 553,789, published Aug. 29, 1950. Class 12.

Scher, Robert S., Baltimore, Md. Medicine for the relief of illness. 274,189, renewed Aug. 19, 1950. O. G. Nov. 28. Class 18.

Schieffelin & Co.: *See*—
Vernay, Arthur S., Inc.

Schnefel Bros. Corporation: *See*—
Schnefel Brothers, Inc.

Schnefel Brothers, Inc., to Schnefel Bros. Corporation, Newark, N. J. Tweezers, manicure and pedicure nippers, etc. 280,084, renewed Feb 10, 1951. O. G. Nov. 28. Class 44.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's princess slips, nightgowns, pajamas, etc. 534,070–11, Nov. 28; Serial Nos. 578,532–3, published Aug. 22, 1950. Class 39.

Schoenfeld, Emanuel, Harrisburg, Pa., to Arnold, Constable & Co., Inc., New York, N. Y. Leather shoes. 280,520, renewed Feb. 17, 1951. O. G. Nov. 28. Class 39.

Schultz, Bauman & Co., Beardstown, Ill. Commercial feeds. 533,842, Nov. 28; Serial No. 520,905, published July 18, 1950. Class 46.

Schuster, Ed., & Co., Incorporated, Milwaukee, Wis. Dolls. 534,053, Nov. 28; Serial No. 583,123, published Aug. 22, 1950. Class 22.

Scott & Fetzer Company, The, Cleveland, Ohio. Electrically driven machines. 534,116, Nov. 28; Serial No. 592,945, published Aug. 22, 1950. Class 21.

Sears, Roebuck and Co., Chicago, Ill. Flexible plastic food dish covers, and washing machine covers, rubber sink mats. 533,876, Nov. 28; Serial No. 550,084, published Aug. 29, 1950. Class 50.

Shapiro, S. D., Inc., Brooklyn, N. Y. Infants' christening sets, children's dresses, legging sets, etc. 533,898, Nov. 28; Serial No. 559,183, published Aug. 29, 1950. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Medicinal and pharmaceutical preparations. 533,964, Nov. 28; Serial No. 573,274, published Sept. 5, 1950. Class 18.

Shelton Hosiery Mills, Inc., Shelton, Conn. Hosiery. 276,320, renewed Oct. 14, 1950. O. G. Nov. 28. Class 39.

Sheppard Envelope Company, Worcester, Mass. Correspondence and mailing envelopes. 534,064, Nov. 28; Serial No. 584,420, published Aug. 1, 1950. Class 37.

Shlansky, Philip, & Bro., Inc., New York, N. Y. Ladies' and misses' coats, suits, and jackets. 534,048, Nov. 28; Serial No. 582,654, published Aug. 22, 1950. Class 39.

Shoe Corporation of America, Columbus, Ohio. Shoes. 534,137, Nov. 28; Serial No. 550,955. Class 39.

Shoecraft, Inc.: *See*—
Shoecraft Shop, Inc.

Shoecraft Shop, Inc., to Shoecraft, Inc., New York, N. Y. Misses' and women's shoes. 280,384, renewed Feb. 17, 1951. O. G. Nov. 28. Class 39.

Shur Gloss Manufacturing Co., Chicago, Ill. Compound for use in cleaning white wall tires. 533,968, Nov. 28; Serial No. 573,699, published Aug. 29, 1950. Class 52.

Sierra Talc & Clay Co., Los Angeles, Calif. Magnesium silicate. 534,073, Nov. 28; Serial No. 584,928, published Sept. 5, 1950. Class 6.

Simmons Company, New York, N. Y. Woven cotton fabrics. 534,114, Nov. 28; Serial No. 591,871, published Aug. 29, 1950. Class 42.

Simpkins, Joe., Inc., Wellston, Mo. Inspection, maintenance, and repair of automotive equipment. 534,121, Nov. 28; Serial No. 542,178, published Aug. 22, 1950. Class 103.

Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. 280,293, renewed Feb. 10, 1951. O. G. Nov. 28. Class 42.

Singer Manufacturing Company, The: *See*—
Standard Sewing Machine Company, The.

Skil-Craft Corporation, Chicago, Ill. Hand woodworking tools, raw materials, and printed or otherwise reproduced instructions, etc. 534,012, Nov. 28; Serial No. 579,142, published Aug. 15, 1950. Class 22.

Sloane, W. & J., New York, N. Y. Plaques, reliefs, statuary, garment hangers. 534,042, Nov. 28; Serial No. 582,067, published Aug. 15, 1950. Class 50.

Smith, Bradner, & Company: *See*—
Wroe, W. E., & Company.

Smith, John A., Company, Oconomowoc, Wis. Medicinal preparations. 534,043, Nov. 28; Serial No. 582,106, published Sept. 5, 1950. Class 18.

Smith, Werner G., Company, The: *See*—
Archer-Daniels-Midland Company.

Snow, F. H., Canning Co., Inc., The, Old Orchard Beach, Maine. Canned fish, clam chowder, fish chowder, etc. 533,838, Nov. 28; Serial No. 498,807, published June 6, 1950. Class 46.

Soap Craft, Inc., Chicago, Ill. Toilet soap. 444,341, Nov. 28; Serial No. 514,226, published Aug. 29, 1950. Class 52.

"Societe Anonyme J. R.," Société Anonyme, Paris, France. Women's dresses, frocks, gowns, etc. 533,933, Nov. 28; Serial No. 568,404, published Aug. 22, 1950. Class 39.

Sorbol Company, The, Mechanicsburg, Ohio. Liquid preparation used in the treatment of athlete's foot, etc. 534,097, Nov. 28; Serial No. 586,771, published Sept. 5, 1950. Class 18.

Sorensen & Company, Inc., Stamford, Conn. Voltage regulators. 533,972, Nov. 28; Serial No. 574,064, published Aug. 22, 1950. Class 21.

Southern Athletic Supply Company, Incorporated, Richmond, Va. Baseballs, baseball gloves, baseball mitts, etc. 533,969, Nov. 28; Serial No. 573,799, published Aug. 15, 1950. Class 22.

Southern Meter & Transformer Co., Atlanta, Ga. Electric power metering assemblies. 533,947, Nov. 28; Serial No. 570,235, published Sept. 5, 1950. Class 26.

Spalsbury-Steis Shoe Company, Fredericktown, Mo. Shoes. 534,098, Nov. 28; Serial No. 586,773, published Aug. 22, 1950. Class 39.

Springfield Company, The, Springfield, Mass. Golf balls. 533,893, Nov. 28; Serial No. 557,473, published Aug. 22, 1950. Class 22.

Springfield Company, The, Springfield, Mass. Golf balls. 533,894, Nov. 28; Serial No. 557,475, published Aug. 22, 1950. Class 22.

Springfield Gas Light Company, Springfield, Mass. Portable tanks containing compressed gas. 533,931, Nov. 28; Serial No. 567,928, published Aug. 29, 1950. Class 6.

Stader, Otto, trading as Ardmore Products Company, Ardmore, Pa. Flush valve guides. 534,106, Nov. 28; Serial No. 587,660, published Sept. 5, 1950. Class 13.

Standard Oil Company of California, to Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif. Volatile odorant. 274,719, renewed Sept. 2, 1950. O. G. Nov. 28. Class 6.

Standard Pressed Steel Co., Jenkintown, Pa. Work desks and stools, work chairs, etc. 533,959, Nov. 28; Serial No. 572,599, published Aug. 22, 1950. Class 32.

Standard Sewing Machine Company, The, Cleveland, Ohio, to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machines and sewing-machine needles. 275,403, renewed Sept. 23, 1950. O. G. Nov. 28. Class 23.

Stanley Works, The, New Britain, Conn. Electric soldering irons. 534,091, Nov. 28; Serial No. 586,368, published Aug. 22, 1950. Class 21.

Star Brush Manufacturing Co., Inc., Boston, Mass. Brushes. 533,991–3, Nov. 28; Serial Nos. 577,235–7, published Sept. 5, 1950. Class 29.

Star Hat and Cap Co., Inc., Chicago, Ill. Hats and caps. 534,164, Nov. 28; Serial No. 587,140. Class 39.

Steel Shot & Grit Co., Amesbury, Mass., and Pittsburgh, Pa. Abrasive steel shot. 274,647, renewed Sept. 2, 1950. O. G. Nov. 28. Class 4.

Sternbach, Paul, Stamford, Conn. Kits containing materials from which model railroad trains, tracks, etc., can be constructed. 533,963, Nov. 28; Serial No. 573,150, published Aug. 29, 1950. Class 22.

Stewart's Root Beer Inc., to Stewart's Root Beer, Inc., Mansfield, Ohio. Popped and salted pop corn and pop corn in its natural state. 274,935, renewed Sept. 9, 1950. O. G. Nov. 28. Class 46.

Stewart's Root Beer Inc., to Stewart's Root Beer, Inc., Mansfield, Ohio. Root beer and root-beer concentrate. 274,949, renewed Sept. 9, 1950. O. G. Nov. 28. Class 45.

Stone, Buford R., doing business as Home Pride Products, Leaksville, N. C. General household cleaner. 533,926, Nov. 28; Serial No. 566,482, published Aug. 29, 1950. Class 52.

Strong Cobb & Company, Inc., Cleveland, Ohio. Preparation marketed in the form of tablets. 533,938, Nov. 28; Serial No. 568,467, published Aug. 29, 1950. Class 18.

Sturdee Steel Products: *See*—
Fowler, Roscoe.

Sunset Oil Company, Los Angeles, Calif. Motor lubricating oils. 534,126, Nov. 28; Serial No. 488,290. Class 15.

Sunware Products, Inc., New York, N. Y. Ophthalmic lenses. 534,006, Nov. 28; Serial No. 578,172, published Sept. 5, 1950. Class 26.

Super Notion Co.: *See*—
Leibowitz, Sidney.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 274,834, renewed Sept. 9, 1950. O. G. Nov. 28. Class 17.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 275,172, renewed Sept. 16, 1950. O. G. Nov. 28. Class 17.

Swiss Radium & Dial Painting Co., Inc., New York, N. Y. Watch bracelets, neck-chains, charms, etc. 533,996, Nov. 28; Serial No. 577,406, published Sept. 5, 1950. Class 28.

Tainton Products Company: *See*—
Freeport Sulphur Company.

Takamine Laboratory, Inc., Clifton, N. J. Enzyme clarifier. 533,979, Nov. 28; Serial No. 575,179, published Sept. 5, 1950. Class 6.

Talk-A-Phone Co., Chicago, Ill. Interoffice and interplant telephonic communication apparatus. 534,049, Nov. 28; Serial No. 582,661, published Aug. 22, 1950. Class 21.

Tam O'Shanter Sportswear Co.: *See*—
Rosenberg, Sydney.

Tam O'Shanter Sportswear, Inc.: *See*—
Rosenberg, Sydney.

Tank Car Stations Incorporated, Buffalo, N. Y., to Tank Car Stations, Incorporated, Chicago, Ill., and Detroit, Mich. Gasoline. 277,156, renewed Nov. 11, 1950. O. G. Nov. 28. Class 15.

Tapecoat Company, The, Evanston, Ill. Protective coating. 533,965, Nov. 28; Serial No. 573,442, published Aug. 15, 1950. Class 12.

Taylor & Williams, Incorporated, to Yellowstone, Inc., Louisville, Ky. Whiskey. 280,199, renewed Feb. 10, 1951. O. G. Nov. 28. Class 49.

Technicolor Motion Picture Corporation, Hollywood, Calif. Motion picture films. 267,288, Feb. 18, 1930. Republished Nov. 28. Class 26.

Tennant, G. H., Company, Minneapolis, Minn. Wax in bar form. 533,892, Nov. 28; Serial No. 557,227, published Aug. 15, 1950. Class 16.

Tennessee Coal, Iron and Railroad Company, Birmingham, Ala., No. 533,973, Nov. 28. Concrete reinforcing bars. Serial No. 574,116. Pub. June 20, 1950. Class 12. Cotton tie buckles, nails, and track spikes and bolts. Serial No. 574,117. Pub. Jan. 31, 1950. Class 13. Steel bars. Serial No. 574,118. Pub. Sept. 19, 1950. Class 14. (Consolidated certificate, Classes 12, 13, and 14.)

Texas Company, The, Wilmington, Del., and New York, N. Y., to The Texas Company, New York, N. Y. Monthly publications. 277,893, renewed Dec. 2, 1950. O. G. Nov. 28. Class 38.

Thompson Products, Inc.: *See*—
Thompson Products, Incorporated.

Thompson Products, Incorporated, Detroit, Mich., to Thompson Products, Inc., Cleveland, Ohio. Tie rods and drag links used in the construction of automotive vehicles. 276,040, renewed Oct. 7, 1950. O. G. Nov. 28. Class 19.

Tillman, Ferdinand J., St. Louis, Mo. Venetian blinds. 534,130, Nov. 28; Serial No. 533,645. Class 32.

Tremco Manufacturing Company, The, Cleveland, Ohio. Concrete curing compound. 533,980, Nov. 28; Serial No. 575,733, published Aug. 29, 1950. Class 12.

Tupper Corporation, Farnumsville, Mass. Poker chips. 533,997, Nov. 28; Serial No. 577,410, published Aug. 15, 1950. Class 22.

Turney, J. G., & Son, Limited, Glasgow, Scotland, and London, England, to J. G. Turney & Son Limited, London, England. Whisky. 276,715, renewed Oct. 28, 1950. O. G. Nov. 28. Class 49.

Undertakers Supply Company, Chicago, Ill. Liquid lotion type skin conditioner. 533,888, Nov. 28; Serial No. 556,496, published July 25, 1950. Class 51.

Union Petroleum Company, Lexington, Nebr., and Council Bluffs, Iowa. Lubricating oils and greases. 534,132, Nov. 28; Serial No. 535,775. Class 15.

United Engineering and Foundry Company, Pittsburgh, Pa. Pamphlets, 278,389, renewed Dec. 16, 1950. O. G. Nov. 28. Class 38.

United Merchants and Manufacturers Inc., assignee: *See*—
Cohn-Hall-Marx Co.

U. S. Die Casting and Manufacturing Corporation, Berkeley, Calif. Lawn sprinklers. 534,017, Nov. 28; Serial No. 579,646, published Sept. 5, 1950. Class 13.

United States Gypsum Company, Chicago, Ill. Joint reinforcing system. 533,891, Nov. 28; Serial No. 556,934, published Aug. 29, 1950. Class 12.

U. S. Line Company: *See*—
United States Whip Company.

United States Stone Company: *See*—
Gau, Elmond F.

United States Whip Company, doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 533,886, Nov. 28; Serial No. 555,905, published Feb. 14, 1950. Class 22.

Van Dyk, James, Company, New York, N. Y., by James Van Dyk Co., Inc., New York and Brooklyn, N. Y. Coffee. 271,098, May 27, 1930. Republished Nov. 28. Class 46.

Van Dyk, James, Co., Inc.: *See*—
Van Dyk, James, Company.

Veralin, Inc., by Consolidated Cosmetics, Chicago, Ill. Antiseptic, germicide, deodorant, etc., pain tablets. 328,695, Oct. 1, 1935. Republished Nov. 28. Classes 18 and 6.

Vernay, Arthur S., Inc., to Schieffelin & Co., New York, N. Y. Furniture polish. 221,183, Nov. 23, 1926. New certificate. O. G. Nov. 28. Class 16.

Verona Chemical Company: *See*—
I. G. Farbenindustrie Aktiengesellschaft.

Veterinary Supply Co., Millersburg, Ohio. Tonic and medicine. 534,163, Nov. 28; Serial No. 585,976. Class 18.

Vette & Zuncker Packing Company, to Rose Packing Company, Chicago, Ill. Potted meat, ham flavor; potted meat, tongue flavor; etc. 80,329, re-renewed Dec. 6, 1950. O. G. Nov. 28. Class 46.

Vick Chemical Company, New York, N. Y. Liquid cough preparation. 534,104, Nov. 28; Serial No. 587,450, published Sept. 5, 1950. Class 18.

Virginia Lee Homes, Inc., Seattle, Wash. Prefabricated houses, and parts and furnishings therefor. 533,869, Nov. 28; Serial No. 547,466, published Aug. 15, 1950. Class 12.

Washers, H., York City Laundry Company, York, Pa. Storing furs and fur-trimmed garments. 534,123, Nov. 28; Serial No. 573,449, published Aug. 22, 1950. Class 105.

Wawak Company, Inc., Chicago, Ill. Woolen piece goods. 533,843, Nov. 28; Serial No. 524,501, published Aug. 29, 1950. Class 42.

Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. 533,848, Nov. 28; Serial No. 531,264, published Aug. 29, 1950. Class 39.

Weinbrenner, Albert H., Co., Milwaukee, Wis. Children's shoes. 534,107, Nov. 28; Serial No. 587,607, published Aug. 22, 1950. Class 39.

West Bend Aluminum Co., West Bend, Wis. Aluminum cooking utensils. 275,392, Sept. 23, 1930. Republished Nov. 28. Class 13.

Western Chemical Company, St. Joseph, Mich. Insecticides. 533,890, Nov. 28; Serial No. 556,747, published Aug. 29, 1950. Class 6.

Western Lithograph Company, Los Angeles, Calif. Labeling indicia. 533,858, Nov. 28; Serial No. 542,190, published June 13, 1950. Class 37.

Westinghouse Electric Corporation, Pittsburgh, Pa., and Lima, Ohio. Electric motors. 534,082, Nov. 28; Serial No. 585,692, published Aug. 22, 1950. Class 21.

Wevenberg Shoe Mfg. Company, Milwaukee, Wis. Children's shoes. 534,047, Nov. 28; Serial No. 582,585, published Aug. 22, 1950. Class 39.

White, Edward T., Union, W. Va. Games and game boards. 534,057, Nov. 28; Serial No. 583,305, published Aug. 15, 1950. Class 22.

White, Simonds Worden, Company, Dayton, Ohio. Butchers' cleavers and splitters. 533,975, Nov. 28; Serial No. 574,653, published Aug. 1, 1950. Class 23.

Whiting-Adams Company, Inc., Boston, Mass. Brushes. 533,994, Nov. 28; Serial No. 577,243, published Sept. 5, 1950. Class 29.

Whitmore, Ken, Inc., Pittsfield, Mass., and New York, N. Y. Ladies', misses' and junior misses' coats. 533,940, Nov. 28; Serial No. 568,822, published Aug. 22, 1950. Class 39.

Wilcox-Gay Corporation, The, Charlotte, Mich. Radio receiving sets and electrical phonographs. 444,343, Nov. 28; Serial No. 524,224, published June 15, 1948. Class 21.

Wilhelm, Warner F., doing business as Bowling Products Company, Chicago, Ill. Package of assorted bowling supplies. 533,900, Nov. 28; Serial No. 559,973, published Aug. 15, 1950. Class 22.

Wormock Mills, Inc., The, New York, N. Y. Textile carpets and rugs. 533,919, Nov. 28; Serial No. 564,543, published Aug. 29, 1950. Class 42.

Wroe, W. E., & Company, by Bradner Smith & Company, Chicago, Ill. Bond paper. 42,194, Mar. 8, 1904. Republished Nov. 28; Class 37.

Ybry, Inc., to Ybry, Inc., New York, N. Y. Perfumes and toilet water, face powders, etc. 274,703, renewed Sept. 2, 1950. O. G. Nov. 28. Class 51.

Yellowstone, Inc.: *See*—
Taylor & Williams, Incorporated.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bulbs, Easter lily. McHutchison & Co. 534,061, Nov. 28; Serial No. 584,070, published Aug. 29, 1950.

Coal. Pittsburgh Consolidation Coal Company. 533,934–7, Nov. 28; Serial Nos. 568,445–8, published Aug. 15, 1950.

Coal. Republic Fuel Co. 275,260, renewed Sept. 16, 1950. O. G. Nov. 28.

Fur skins. Jacob Becher & Son, Inc. 533,962, Nov. 28; Serial No. 572,826, published Aug. 29, 1950.

Leather. Eagle-Ottawa Leather Company. 533,897, Nov. 28; Serial No. 558,877, published Aug. 29, 1950.

Plants, trees, shrubs, etc. Monrovia Nursery Company. 534,014, Nov. 28; Serial No. 579,285, published Aug. 29, 1950.

Seeds. Ferry-Morse Seed Co. 534,013, Nov. 28; Serial No. 579,273, published Aug. 29, 1950.

CLASS 2

Compacts and lipstick holders. Les Parfums De Dana, Inc. 534,148, Nov. 28; Serial No. 569,864.

Soap dish, Rubber. F. E. Reefe. 534,152, Nov. 28; Serial No. 576,770.

Trays, Package, for trucks. The American Pulley Company. 277,655, renewed Nov. 25, 1950. O. G. Nov. 28.

CLASS 4

Abrasive steel shot. Steel Shot & Grit Co. 274,647, renewed Sept. 2, 1950. O. G. Nov. 28.

Grinding balls and slugs for cement mills and the like. National Malleable and Steel Castings Company. 275,793, renewed Sept. 30, 1950. O. G. Nov. 28.

Polish, Liquid automobile. U. R. Haddock. 534,035, Nov. 28; Serial No. 581,662, published Aug. 29, 1950.

Polish, Metal, dishwashing cleanser, liquid hand soap, etc. Albert Pick Company, Inc. 533,850, Nov. 28; Serial No. 534,715, published Aug. 29, 1950.

Wax, Self-polishing. M. T. Call. 534,034, Nov. 28; Serial No. 581,383, published Aug. 29, 1950.

CLASS 6

Acetaldehyde, acetamide, acetanilid, etc. Mallinckrodt Chemical Works. 533,844, Nov. 28; Serial No. 526,920, published Feb. 22, 1949. (Consolidated certificate. Classes 6, 14 and 16.)

Ammonium compounds, Quaternary. Quaker Chemical Products Corporation. 533,927, Nov. 28; Serial No. 567,009, published Aug. 29, 1950.

Antiseptic, germicide, deodorant, etc., pain tablets. Veralin, Inc. 328,695, Oct. 1, 1935. Republished Nov. 28.

Carbon black for use in the rubber industry. Columbian Carbon Company. 529,996, Aug. 29, 1950. Corrected. O. G. Nov. 28.

Chemical composition. S. C. Johnson & Sons, Inc. 533,932, Nov. 28; Serial No. 568,376, published June 27, 1950.

Chemical compound. Quaker Chemical Products Corporation. 534,005, Nov. 28; Serial No. 578,165, published Sept. 5, 1950.

Composition, Liquid. Jet Products Co. 534,166, Nov. 28; Serial No. 590,507.

Dyestuffs. I. G. Farbenindustrie Aktiengesellschaft. 278,923, renewed Jan. 6, 1951. O. G. Nov. 28.

Enzyme clarifier. Takamine Laboratory, Inc. 533,979, Nov. 28; Serial No. 575,179, published Sept. 5, 1950.

Fatty acids and hydrogenated glycerides, Hydrogenated. Archer-Daniels-Midland Company. 534,108, Nov. 28; Serial No. 589,238, published Sept. 12, 1950.

Fumigant, Soil. Easton Chemicals, Inc. 533,970, Nov. 28; Serial No. 573,832, published Aug. 22, 1950.

Insecticide. Food Machinery and Chemical Corporation. 534,093, Nov. 28; Serial No. 586,531, published Sept. 5, 1950.

Insecticides. C. C. Gerard. 534,159, Nov. 28; Serial No. 582,783.

Insecticides. Western Chemical Company. 533,890, Nov. 28; Serial No. 556,747, published Aug. 29, 1950.

Laundry starch. Corn Products Refining Company. 80,462, re-renewed Dec. 27, 1950. O. G. Nov. 28.

Magnesium silicate. Sierra Talc & Clay Co. 534,073, Nov. 28; Serial No. 584,928, published Sept. 5, 1950.

Odorant, Volatile. Standard Oil Company of California. 274,710, renewed Sept. 2, 1950. O. G. Nov. 28.

Odoriferous and aromatic chemicals. I. G. Farbenindustrie Aktiengesellschaft. 272,127, July 1, 1930. Republished Nov. 28.

Portable tanks containing compressed gas. Springfield Gas Light Company. 533,931, Nov. 28; Serial No. 567,928, published Aug. 29, 1950.

Preparation for treating sized or dressed textile materials. Manufacture de Produits Speciaux Robert Levaux, Ingénieur & Cie. 533,983, Nov. 28; Serial No. 576,124, published Aug. 29, 1950.

Wood preserver. Phoenix Oil Company, Inc. 534,083, Nov. 28; Serial No. 585,720, published Sept. 5, 1950.

CLASS 8

Cigarette paper. Ecusta Paper Corporation. 529,416, Aug. 22, 1950. Corrected. O. G. Nov. 28.

CLASS 9

Fuses, Coast Manufacturing & Supply Company. 274,948, Sept. 9, 1930. Republished Nov. 28, 1950.

Fuses, Powder-train. Coast Manufacturing & Supply Company. 274,947, Sept. 9, 1930. Republished Nov. 28.

CLASS 10

Fertilizers. E. Rauh & Sons Fertilizer Company. 274,369, renewed Aug. 26, 1950. O. G. Nov. 28.

CLASS 11

Ink, Printing. Interchemical Corporation. 534,077, Nov. 28; Serial No. 585,069, published Aug. 29, 1950.

Inks, Printing and lithographic. Barta-Griffin Company. 534,056, Nov. 28; Serial No. 583,187, published Aug. 22, 1950.

Varnish to be used as an additive to printing inks. B. S. Ebersole. 533,989, Nov. 28; Serial No. 576,963, published Sept. 5, 1950.

CLASS 12

Asphalt roofing, asphalt roofing shingles, etc. The Lehon Company. 534,131, Nov. 28; Serial No. 535,572.

Bars, Concrete reinforcing. Tennessee Coal, Iron and Railroad Company. 533,973, Nov. 28; Serial No. 574,116, published June 20, 1950.

Cement. Schalk Chemical Company. 533,878, Nov. 28; Serial No. 553,789, published Aug. 29, 1950.

Coating material. W. D. Moore. 533,879, Nov. 28; Serial No. 553,892, published Aug. 15, 1950.

Concrete, Asphaltic, and a mixture of asphalt and stone screening. The General Crushed Stone Co. 534,143, Nov. 28; Serial No. 560,558.

Concrete curing compound. The Tremco Manufacturing Company. 533,980, Nov. 28; Serial No. 575,733, published Aug. 29, 1950.

Concrete, Dry, mixed. A. C. Mowbray. 534,090, Nov. 28; Serial No. 586,298, published Aug. 15, 1950.

Cut stone. E. F. Gau. 534,135, Nov. 28; Serial No. 542,915.

Doors, windows, sashes, etc. General Woodcraft Co., Inc. 534,022, Nov. 28; Serial No. 580,131, published Aug. 15, 1950.

Houses, Prefabricated, and parts and furnishings therefor. Virginia Lee Homes, Inc. 533,869, Nov. 28; Serial No. 547,466, published Aug. 15, 1950.

Insulation, Mineral thermal. Illinois Clay Products Company. 533,875, Nov. 28; Serial No. 549,931, published Sept. 20, 1949.

Lime in powdered form for building and construction purposes. The Ohio Hydrate & Supply Company. 534,024, Nov. 28; Serial No. 580,555, published Aug. 15, 1950.

Lime in powdered form for building and construction purposes. The Ohio Hydrate & Supply Company. 534,025, Nov. 28; Serial No. 580,557, published Aug. 15, 1950.

Lime in powdered form for building and construction purposes. The Ohio Hydrate & Supply Company. 534,026, Nov. 28; Serial No. 580,559, published Aug. 15, 1950.

Lining, flooring, shelving, etc., Closet. George C. Brown & Company. 277,220, Nov. 11, 1930. Republished Nov. 28.

Partitions and doors, Sectional wall and toilet wall. J. C. Petterson. 533,986, Nov. 28; Serial No. 576,653, published Aug. 15, 1950.

Protective coating. The Tapecoat Company. 533,965, Nov. 28; Serial No. 573,442, published Aug. 15, 1950.

Reinforcing system, Joint. United States Gypsum Company. 533,891, Nov. 28; Serial No. 556,934, published Aug. 29, 1950.

Sashes and screens, Combination storm. General Woodcraft Co., Inc. 534,021, Nov. 28; Serial No. 580,130, published Aug. 15, 1950.

Scuttles, Metal roof, sidewalk doors, cellar doors, etc. The Bilco Company. 533,978, Nov. 28; Serial No. 575,035, published Aug. 29, 1950.

Sheets, sheathings, slabs, etc. Keasbey & Mattison Company. 533,971, Nov. 28; Serial No. 573,949, published Aug. 29, 1950.

Water repellent, Liquid. Protection Products Manufacturing Co. 533,847, Nov. 28; Serial No. 530,565, published Aug. 15, 1950.

CLASS 13

Buckles, Cotton tie, nails, and track spikes and bolts. Tennessee Coal, Iron and Railroad Company. 533,973, Nov. 28; Serial No. 574,117, published Jan. 31, 1950.

Cooking utensils. Altheimer & Baer, Inc. 534,142, Nov. 28; Serial No. 559,080.

Cooking utensils, Aluminum. West Bend Aluminum Co. 275,392, Sept. 23, 1930. Republished Nov. 28.

Dispenser, Household. Pollock Paper Corporation. 534,016, Nov. 28; Serial No. 579,450, published Aug. 22, 1950.

Fasteners, Slide. S. Leibowitz. 533,896, Nov. 28; Serial No. 558,564, published Sept. 5, 1950.

Grill, Sandwich. Arrow Aluminum Products Co., Inc. 534,099, Nov. 28; Serial No. 587,003, published Sept. 5, 1950.

Hardware, Articles of. Freeport Sulphur Company. 533,988, Nov. 28; Serial No. 576,798, published Sept. 5, 1950.

Hardware, Builders. R. Fowler. 534,128, Nov. 28; Serial No. 519,009.

Lawn sprinklers. U. S. Die Casting and Manufacturing Corporation. 534,017, Nov. 28; Serial No. 579,646, published Sept. 5, 1950.

Moulds. Cheerio Toys & Games Limited. 534,044, Nov. 28; Serial No. 582,456, published Aug. 22, 1950.

Pipe, Ferrous metal, and ferrous metal pipe fittings; etc. Armco Steel Corporation. 533,845, Nov. 28; Serial No. 527,738, published July 11, 1950.

Pipes, Metal. American Circular Loom Company. 78,671, re-renewed July 5, 1950. O. G. Nov. 28.

Screws, etc. Parker-Kalon Corporation. 534,165, Nov. 28; Serial No. 589,615.

Skewers, Metal. M. E. Heuck. 534,087, Nov. 28; Serial No. 585,977, published Aug. 22, 1950.

Sprinklers, Irrigating water. Metallizing Engineering Co. Inc. 534,036, Nov. 28; Serial No. 581,724, published Sept. 5, 1950.

Valve guides, Flush. O. Stader. 534,106, Nov. 28; Serial No. 587,660, published Sept. 5, 1950.

CLASS 14

Bars, Steel. Tennessee Coal, Iron and Railroad Company. 533,973, Nov. 28; Serial No. 574,118, published Sept. 19, 1950.

Wood's metal. Mallinckrodt Chemical Works. 533,844, Nov. 28; Serial No. 568,648, published July 11, 1950.

CLASS 15

Gasoline. Tank Car Stations Incorporated. 277,156, renewed Nov. 11, 1950. O. G. Nov. 28.

Oil, Light upper lubrication. C. & S. Clementson. 267,584, renewed Feb. 25, 1950. O. G. Nov. 28.

Oils and greases, Lubricating. Union Petroleum Company. 534,132, Nov. 28; Serial No. 535,775.

Oils, Motor lubricating. Sunset Oil Company. 534,126, Nov. 28; Serial No. 488,290.

CLASS 16

Bronze powder for use in paints. The Ohio Bronze Powder Company. 534,146, Nov. 28; Serial No. 565,716.

Coating compositions, enamels, paint type fillers, etc. Monsanto Chemical Company. 533,882, Nov. 28; Serial No. 554,909, published Aug. 22, 1950.

Coating compositions, Synthetic resin. Monsanto Chemical Company. 533,883, Nov. 28; Serial No. 554,914, published Aug. 22, 1950.

Coatings, Protective, paint racks, etc., masking materials, and chemical paint removers. Detrex Corporation. 533,867, Nov. 28; Serial No. 546,975, published Aug. 22, 1950.

Flatting agent. Mallinckrodt Chemical Works. 533,844, Nov. 28; Serial No. 568,647, published Aug. 22, 1950.

Furniture polish. Arthur S. Vernay, Inc. 221,183, Nov. 23, 1926. New certificate. O. G. Nov. 28.

Paint, Asphalt roof. Chicago Paints, Inc. 533,911, Nov. 28; Serial No. 562,756, published Aug. 29, 1950.

Paint enamels, Prepared or ready-mixed liquid, varnish stains, undercoats, etc. J. F. Kurfees Paint Company. 533,852, Nov. 28; Serial No. 535,542, published Aug. 22, 1950.

Paint, Flat oil finish. Purity Paint Products Corporation. 533,915, Nov. 28; Serial No. 563,634, published Aug. 29, 1950.

Paint, Liquid, and varnish remover. Arrow Products Corporation. 533,854, Nov. 28; Serial No. 537,398, published Aug. 22, 1950.

Paint, Marine. Oliver Reeder & Son. 80,153, Nov. 8, 1910. Republished Nov. 28.

Paint, Porch and deck. Minnesota Linseed Oil Paint Co. 533,846, Nov. 28; Serial No. 527,955, published Aug. 22, 1950.

Paint, Ready-mixed. Armstrong Paint & Varnish Works. 534,139, Nov. 28; Serial No. 556,059.

Paint, Ready-mixed. Armstrong Paint & Varnish Works. 534,140–1, Nov. 28; Serial Nos. 556,066–7.

Paints, Glaze. Novel, Incorporated. 534,156, Nov. 28; Serial No. 579,883.

Paints, Ready-mixed. Chilton Paint Company. 533,929, Nov. 28; Serial No. 567,323, published Aug. 15, 1950.

Paints, Ready-mixed. The Patterson-Sargent Company. 533,906, Nov. 28; Serial No. 561,334, published Aug. 22, 1950.

Paints, Water-color. Novel, Incorporated. 534,157, Nov. 28; Serial No. 579,884.

Penetrating liquid. Higley Chemical Company. 533,841, Nov. 28; Serial No. 520,033, published June 21, 1949.

Turpentine, Steam distilled, steam distilled dipentene, steam distilled pine oils, etc. The Delta Pine Products Corporation. 534,031, Nov. 28; Serial No. 580,927, published Aug. 22, 1950.

Wax in bar form. G. H. Tennant Company. 533,892, Nov. 28; Serial No. 557,227, published Aug. 15, 1950.

CLASS 17

Cigars. Por Larrañage, Fabrica de Tobacos, S. A. 277,130–1, Nov. 4, 1930. Republished Nov. 28.

Cigars. Jno. H. Swisher & Son, Inc. 274,834, renewed Sept. 9, 1950. O. G. Nov. 28.

Cigars. Jno. H. Swisher & Son, Inc. 275,172, renewed Sept. 16, 1950. O. G. Nov. 28.

CLASS 18

Antiseptic, germicide, deodorant, etc., pain tablets. Veralin, Inc. 328,695, Oct. 1, 1935. Republished Nov. 28.

Antitussive, Non-alcoholic and non-narcotic. J. J. Pash. 534,103, Nov. 28; Serial No. 587,353, published Sept. 5, 1950.

Biochemicals, hormones and vitamins, etc. Meyer Chemical Company. 444,342, Nov. 28; Serial No. 518,160, published Aug. 29, 1950.

Compound of barium sulphate used in connection with X-ray examinations. The Kelley-Koett Manufacturing Company. 534,109, Nov. 28; Serial No. 588,864, published Sept. 5, 1950.

Cough preparation, Liquid. Vick Chemical Company. 534,104, Nov. 28; Serial No. 587,450, published Sept. 5, 1950.

Embrocation. Pharmax Limited. 533,895, Nov. 28; Serial No. 557,869, published July 25, 1950.

Fluids for parenteral use. Baxter Laboratories, Inc. 534,117, Nov. 28; Serial No. 593,212, published Sept. 5, 1950.

Laxative, Mild, and headache remedy, etc. A-Gene Laboratories. 534,003, Nov. 28; Serial No. 578,066, published Sept. 5, 1950.

Medicinal and pharmaceutical preparations. Sharp & Dohme, Incorporated. 533,964, Nov. 28; Serial No. 573,274, published Sept. 5, 1950.

Medicinal compound. Baldwin Pharmacal Company, Inc. 534,038–40, Nov. 28; Serial Nos. 581,755–7, published Sept. 5, 1950.

Medicinal dosages and dietary supplements. Hightower Laboratories. 534,158, Nov. 28; Serial No. 582,307.

Medicinal eye cleaning solution. C. C. Marroquin. 534,065, Nov. 28; Serial No. 584,686, published Sept. 5, 1950.

Medicinal preparations. John A. Smith Company. 534,043, Nov. 28; Serial No. 582,106, published Sept. 5, 1950.

Medicine for the relief of illness. R. S. Scher. 274,189, renewed Aug. 19, 1950. O. G. Nov. 28.

Ointment, Medicinal. R. A. Bachmann. 272,348, renewed July 8, 1950. O. G. Nov. 28.

Penicillin G, Crystalline procaine, and buffered crystalline penicillin G potassium for aqueous injection. Commercial Solvents Corporation. 534,004, Nov. 28; Serial No. 578,117, published Sept. 5, 1950.

Pharmaceutical preparations. Allied Laboratories, Inc. 533,942, Nov. 28; Serial No. 569,420, published Sept. 5, 1950.

Preparation for removing corns, callouses, warts, etc. H. S. Griswold. 276,005, renewed Oct. 7, 1950. O. G. Nov. 28.

Preparation, Liquid, used in the treatment of athlete's foot, etc. The Sorbol Company. 534,097, Nov. 28; Serial No. 586,771, published Sept. 5, 1950.

Preparation marketed in the form of tablets. Strong Cobb & Company, Inc. 533,938, Nov. 28; Serial No. 568,467, published Aug. 29, 1950.

Remedy. J. W. M. Clark. 534,102, Nov. 28; Serial No. 587,317, published Sept. 5, 1950.
Salves, Healing and palliative. A. J. Rutshaw. 533,921, Nov. 28; Serial No. 564,654, published July 25, 1950.
Suppositories. F. Fuller. 35,888, re-renewed Feb. 12, 1951. O. G. Nov. 28.
Suppositories, Rectal. W. A. Fansler. 533,884, Nov. 28; Serial No. 554,969, published July 25, 1950.
Tonic and medicine. Veterinary Supply Co. 534,163, Nov. 28; Serial No. 585,976.
Tonic and tissue builder. B. F. Sanches. 270,446, renewed May 6, 1950. O. G. Nov. 28.

CLASS 19

Tie rods and drag links used in the construction of automotive vehicles. Thompson Products, Incorporated. 276,040, renewed Oct. 7, 1950. O. G. Nov. 28.

CLASS 21

Anode devices for insertion in water heaters. Bauer Mfg. Corporation. 533,955, Nov. 28; Serial No. 571,788, published Aug. 22, 1950.
Anode devices for insertion in water heaters. Mission Appliance Corporation. 533,956, Nov. 28; Serial No. 571,868, published Aug. 22, 1950.
Broadcast, Radio, and beacon receiver. Lear, Incorporated. 534,162, Nov. 28; Serial No. 584,336.
Cables, Coaxial, electrical connectors, and insulated wires and cables, etc. Product Development Company. 534,101, Nov. 28; Serial No. 587,087, published Aug. 29, 1950.
Christmas tree decorations, wall plaques and table and mantle decorations. The Glolite Corporation. 534,144, Nov. 28; Serial No. 562,135.
Clamps. M. J. Blaugrund. 534,050, Nov. 28; Serial No. 582,718, published Aug. 29, 1950.
Communication apparatus, Interoffice and interplant telephonic. Talk-A-Phone Co. 534,049, Nov. 28; Serial No. 582,661, published Aug. 22, 1950.
Conductors of cables, Armored electric. National Electric Products Corporation. 271,837, renewed June 17, 1950. O. G. Nov. 28.
Conductors or cables, Armored electric. National Electric Products Corporation. 271,911, renewed June 17, 1950. O. G. Nov. 28.
Contact pins, Radio, radio contact prongs, contact points, etc. The Bead Chain Manufacturing Company. 534,100, Nov. 28; Serial No. 587,070, published Aug. 29, 1950.
Contacts, devices, controlling pressure between electrical contacts, etc., Electrical. W. C. Robinette Co. 533,913, Nov. 28; Serial No. 562,887, published Aug. 22, 1950.
Driven machines, Electrically. The Scott & Fetzer Company. 534,116, Nov. 28; Serial No. 592,945, published Aug. 22, 1950.
Electric machines. H. Maimin Co. Inc. 533,998, Nov. 28; Serial No. 577,483, published Aug. 29, 1950.
Electrical apparatus. M. M. Fleron & Son, Inc. 533,849, Nov. 28; Serial No. 531,902, published Aug. 22, 1950.
Fuse cutouts and disconnect switches. Line Material Company. 533,907, Nov. 28; Serial No. 561,471, published Aug. 22, 1950.
Fuses, Current-limiting. The Chase-Shawmut Company. 534,033, Nov. 28; Serial No. 581,405, published Aug. 22, 1950.
Generators, Motor. Carter Motor Company. 534,095, Nov. 28; Serial No. 586,680, published Aug. 29, 1950.
Grounding device. Walter G. Legge Company, Inc. 534,002, Nov. 28; Serial No. 578,032, published Aug. 29, 1950.
Headlights, Electric, and signal lamps, etc. Mars Signal-Light Company. 533,866, Nov. 28; Serial No. 546,908, published Aug. 22, 1950.
Ignition systems. Mallory Electric Corporation. 533,982, Nov. 28; Serial No. 575,999, published Aug. 22, 1950.
Insulated wire for interconnecting electrical devices. Kellogg Switchboard and Supply Company. 534,150, Nov. 28; Serial No. 572,904.
Insulatory rubber tape, Electrical, or splicing compounds. Haartz-Mason, Inc. 534,145, Nov. 28; Serial No. 565,262.
Lighting fixtures, Fluorescent, and parts thereof. Day-Brite Lighting, Inc. 534,094, Nov. 28; Serial No. 586,565, published Aug. 22, 1950.
Lighting tubes, Fluorescent, and fixtures, etc. Branch Industries, Inc. 533,899, Nov. 28; Serial No. 559,573, published Aug. 22, 1950.
Locomotives, Electric mining. Goodman Manufacturing Company. 533,922, Nov. 28; Serial No. 565,549, published Aug. 22, 1950.
Lugs for electrical cables, metal cable connectors and rubber coverings. F. M. Anthony. 533,961, Nov. 28; Serial No. 572,709, published Aug. 22, 1950.
Motors, Electric. Westinghouse Electric Corporation. 534,082, Nov. 28; Serial No. 585,692, published Aug. 22, 1950.
Polishing machines, Electric floor. S. C. Johnson & Son, Inc. 533,904, Nov. 28; Serial No. 560,205, published Aug. 22, 1950.
Polishing machines, Electrically operated floor. Boyle-Midway Inc. 534,113, Nov. 28; Serial No. 590,879, published Aug. 22, 1950.
Receivers, Radio and television. Pioneer Television Company. 534,007, Nov. 28; Serial No. 578,282, published Aug. 29, 1950.
Receiving sets, Diminutive radio. Electronics Systems Corp. 533,981, Nov. 28; Serial No. 575,977, published Aug. 22, 1950.
Receiving sets, Radio, and electrical phonographs. The Wilcox-Gay Corporation. 444,343, Nov. 28; Serial No. 524,224, published June 15, 1948.
Receiving sets, Radio, and radio phonograph combinations. Mercantile Stores Co., Inc. 533,958, Nov. 28; Serial No. 572,184, published Aug. 29, 1950.
Receiving sets, Television. Olympic Radio & Television Inc. 533,939, Nov. 28; Serial No. 568,750, published Aug. 29, 1950.
Receiving sets, Television radio. Calbest Engineering and Electronics Company. 534,096, Nov. 28; Serial No. 586,726, published Aug. 22, 1950.
Recording and reproducing sets, Electrical sound. Mohawk Business Machines Corporation. 534,052, Nov. 28; Serial No. 583,105, published Aug. 22, 1950.
Rectifiers, Dry plate. McColpin-Christie Corporation, Ltd. 529,953, Aug. 29, 1950. Corrected. O. G. Nov. 28.
Regulators, Voltage. Sorensen & Company, Inc. 533,972, Nov. 28; Serial No. 574,064, published Aug. 22, 1950.
Shades, Lamp. Mercantile Stores Company, Inc. 533,949, Nov. 28; Serial No. 570,623, published Aug. 29, 1950.
Signs, Electrical advertising. Rhode Island Laboratories, Inc. 444,337, Nov. 28; Serial No. 491,729, published Aug. 29, 1950.
Soldering irons, Electric. The Stanley Works. 534,091, Nov. 28; Serial No. 586,368, published Aug. 22, 1950.
Starter switches, Quick-action. Raytron Corporation. 534,138, Nov. 28; Serial No. 553,746.
Supplies, Electrical. Hall & Co., Inc. 533,912, Nov. 28; Serial No. 562,851, published Aug. 29, 1950.
Supply units, Electric power. Cornell-Dubilier Electric Corporation. 534,063, Nov. 28; Serial No. 584,322, published Aug. 22, 1950.
Transmitting sets, Radio, radio-frequency tuners, and electron tube oscillators. Hazeltine Electronics Corporation. 534,060, Nov. 28; Serial No. 583,929, published Aug. 22, 1950.
Tubes, Radio receiving. Raytheon Manufacturing Company. 533,909, Nov. 28; Serial No. 561,773, published Aug. 29, 1950.
Wire, Plastic covered electric. Chester Cable Corp. 534,086, Nov. 28; Serial No. 585,887, published Aug. 22, 1950.

CLASS 22

Artificial fish lures. A. M. D'Anna. 533,945, Nov. 28; Serial No. 569,931, published Aug. 22, 1950.
Baseballs, baseball gloves, baseball mitts, etc. Southern Athletic Supply Company, Incorporated. 533,969, Nov. 28; Serial No. 573,799, published Aug. 15, 1950.
Bowling supplies, Package of assorted. W. F. Wilhelm. 533,900, Nov. 28; Serial No. 559,973, published Aug. 15, 1950.
Dolls. Ideal Novelty & Toy Co. 533,851, Nov. 28; Serial No. 535,323, published Sept. 7, 1948.
Dolls. Ed. Schuster & Co., Incorporated. 534,053, Nov. 28; Serial No. 583,123, published Aug. 22, 1950.
Figurines, Plastic. Bergen Toy & Novelty Co., Inc. 534,018, Nov. 28; Serial No. 579,655, published Aug. 15, 1950.
Fishing lines. United States Whip Company. 533,886, Nov. 28; Serial No. 555,905, published Feb. 14, 1950.
Fishing poles, Bamboo, bamboo vaulting poles, and bamboo ski poles. Geo. H. Maus, Inc. 533,944, Nov. 28; Serial No. 569,873, published Jan. 24, 1950.
Game Board. G. B. Raser. 533,877, Nov. 28; Serial No. 551,199, published Aug. 22, 1950.
Games. E. G. Jesberg. 533,941, Nov. 28; Serial No. 568,955, published Aug. 15, 1950.
Games and game boards. E. T. White. 534,057, Nov. 28; Serial No. 583,305, published Aug. 15, 1950.
Golf balls. The Springfield Company. 533,893, Nov. 28; Serial No. 557,473, published Aug. 22, 1950.
Golf balls. The Springfield Company. 533,894, Nov. 28; Serial No. 557,475, published Aug. 22, 1950.
Hand woodworking tools, raw materials, and printer or otherwise reproduced instructions, etc. Skil-Craft Corporation. 534,012, Nov. 28; Serial No. 579,142, published Aug. 15, 1950.
Kits containing materials from which model railroad trains, tracks, etc., can be constructed. P. Sternbach. 533,963, Nov. 28; Serial No. 573,150, published Aug. 29, 1950.
Life preserver cushions; life preserver jackets, vests and belts; etc. Burlington Mills Incorporated. 533,918, Nov. 28; Serial No. 563,900, published Aug. 22, 1950.
Materials used in process for applying crayons to fabrics. The American Crayon Company. 280,310, renewed Feb. 10, 1951. O. G. Nov. 28.
Nylon covered steel cable. B. W. Bedell. 533,914, Nov. 28; Serial No. 563,233, published Aug. 22, 1950.
Picture making set, Children's. H. A. Fales. 533,948, Nov. 28; Serial No. 570,294, published Aug. 15, 1950.
Poker chips. Tupper Corporation. 533,997, Nov. 28; Serial No. 577,410, published Aug. 15, 1950.
Spinning tops. Royal Tops Mfg. Co. 533,946, Nov. 28; Serial No. 569,996, published Aug. 15, 1950.
Toy cardboard collapsible trucks. Radio Corporation of America. 534,081, Nov. 28; Serial No. 585,473, published Aug. 15, 1950.
Toy, Child's. Camdel, Incorporated. 534,051, Nov. 28; Serial No. 583,028, published Aug. 15, 1950.

Toy egg, Musical. The La Rens Company. 533,977, Nov. 28; Serial No. 574,912, published Aug. 22, 1950.
Toys. Esquire Novelty Co. 533,943, Nov. 28; Serial No. 569,439, published Aug. 15, 1950.
Tricycle, Child's. B. M. C. Manufacturing Corp. 534,127, Nov. 28; Serial No. 517,829.
Velocipedes and tricycles. Junior Toy Corporation. 533,990, Nov. 28; Serial No. 577,192, published Aug. 15, 1950.
Velocipedes, scooters, sleds, etc. W. and E. B. Burd. 533,928, Nov. 28; Serial No. 567,183, published Aug. 15, 1950.

CLASS 23

Agricultural machinery and implements. Allis-Chalmers Manufacturing Company. 533,862, Nov. 28; Serial No. 545,417, published Apr. 11, 1950.
Braces, Bit, chucks, and chuck-jaws. The Peck, Stow & Wilcox Company. 80,437, re-renewed Dec. 20, 1950. O. G. Nov. 28.
Clamps, Hand-screw. Adjustable Clamp Company. 533,903, Nov. 28; Serial No. 560,153, published July 18, 1950.
Cleavers and splitters, Butchers'. S. W. White. 533,975, Nov. 28; Serial No. 574,653, published Aug. 1, 1950.
Conveyor trolley roller turns, chain rollers, etc. Saginaw Stamping & Tool Company. 274,723, renewed Sept. 2, 1950. O. G. Nov. 28.
Drilling machines, Portable earth. George E. Failing Supply Company. 534,020, Nov. 28; Serial No. 579,919, published July 18, 1950.
Files. Heller Brothers Company. 534,118, Nov. 28; Serial No. 595,460, published Aug. 1, 1950.
Hammers, Pneumatic, riveting, chipping, calking, and stone; etc. Chicago Pneumatic Tool Company. 274,689, renewed Sept. 2, 1950. O. G. Nov. 28.
Machines of the type employing revolving blades. The W. J. Fitzpatrick Company. 534,027, Nov. 28; Serial No. 580,588, published June 27, 1950.
Mixers, Fuel and air, for internal combustion engines. Saaty Corporation. 534,001, Nov. 28; Serial No. 577,904, published June 6, 1950.
Sewing machines and sewing-machine needles. The Standard Sewing Machine Company. 275,403, renewed Sept. 23, 1950. O. G. Nov. 28.
Shafts, Drive, pinion shafts, worm gears and worm shafts. Lempco Products, Inc. 278,728, renewed Dec. 30, 1950. O. G. Nov. 28.
Shovels, Hand, scoops, and spades. Magor Car Corporation. 533,840, Nov. 28; Serial No. 519,887, published Aug. 1, 1950.

CLASS 26

Analyzer set, Spectrum, or apparatus. Kay Electric Company. 533,967, Nov. 28; Serial No. 573,559, published Sept. 5, 1950.
Assemblies, Electric power metering. Southern Meter & Transformer Co. 533,947, Nov. 28; Serial No. 570,235, published Sept. 5, 1950.
Business machines. Burroughs Adding Machine Company. 534,074, Nov. 28; Serial No. 584,966, published Sept. 5, 1950.
Calculating machines. Marchant Calculating Machine Company. 533,950, Nov. 28; Serial No. 570,862, published Sept. 5, 1950.
Computing and data handling apparatus, Electronic. Engineering Research Associates, Inc. 533,952, Nov. 28; Serial No. 571,017, published Sept. 5, 1950.
Enlargers, Photographic, and parts thereof. Eastman Kodak Company. 534,112, Nov. 28; Serial No. 590,015, published Aug. 15, 1950.
Film, Motion picture. Celluloid College. 444,339, Nov. 28; Serial No. 512,155, published Sept. 5, 1950.
Films, Cinematograph. J. Arthur Rank Organisation Limited. 533,985, Nov. 28; Serial No. 576,554, published Sept. 5, 1950.
Films, Motion picture. Technicolor Motion Picture Corporation. 267,288, Feb. 18, 1930. Republished Nov. 28.
Films, Moving-picture. Paramount Publix Corporation. 279,933, renewed Feb. 3, 1951. O. G. Nov. 28.
Frames and mountings, Ophthalmic. American Optical Company. 533,916, Nov. 28; Serial No. 563,802, published Aug. 15, 1950.
Gauges, Indicating, signaling and recording. Industrial Scientific Company. 533,917, Nov. 28; Serial No. 563,856, published Sept. 5, 1950.
Goggles and eye protectors. E. B. Meyrowitz, Inc. 274,774, renewed Sept. 9, 1950. O. G. Nov. 28.
Illuminators, Dark-field. Gemological Institute of America. 533,880, Nov. 28; Serial No. 553,959, published Aug. 15, 1950.
Indicators, Time. Boston Manufacturing Co. 533,920, Nov. 28; Serial No. 564,604, published Sept. 5, 1950.
Instruments adapted to time the permanent waving of human hair. Distinctive Products Development Corp. 533,868, Nov. 28; Serial No. 547,329, published Sept. 5, 1950.
Instruments for testing the di-electric capacity of insulation. Mechanical and Electrical Development Company. 533,885, Nov. 28; Serial No. 554,993, published Sept. 5, 1950.
Instruments, Mathematical and drawing. Keuffel & Esser Company. 35,513, re-renewed Dec. 4, 1950. O. G. Nov. 28.
Lenses, Ophthalmic. Sunware Products, Inc. 534,006, Nov. 28; Serial No. 578,172, published Sept. 5, 1950.
Ophthalmoscopes and components thereof. American Cystoscope Makers, Inc. 534,023, Nov. 28; Serial No. 580,545, published Sept. 5, 1950.
Optical goods. S. Cohen. 534,134, Nov. 28; Serial No. 537,423.
Oscillator, Crystal controlled multi-channel. Kay Electric Company. 533,966, Nov. 28; Serial No. 573,557, published Sept. 5, 1950.
Wind driven apparatus. Bendix Aviation Corporation. 534,075, Nov. 28; Serial No. 585,010, published Aug. 15, 1950.

CLASS 27

Clocks and watches. General Time Corporation. 534,019, Nov. 28; Serial No. 579,683, published Sept. 5, 1950.
Watches. Benrus Watch Company, Inc. 533,953, Nov. 28; Serial No. 571,109, published Sept. 5, 1950.
Watches. Hamilton Watch Company. 533,870, Nov. 28; Serial No. 548,255, published Sept. 5, 1950.
Watches and portable clocks. W. C. Ball. 35,047, re-renewed Sept. 18, 1950. O. G. Nov. 28.
Watches and watchcases. Elgin National Watch Company. 276,629, Oct. 21, 1930. Republished Nov. 28.

CLASS 28

Watch bracelets. Gemex Company. 534,085, Nov. 28; Serial No. 585,791, published Sept. 5, 1950.
Watch bracelets, neck-chains, charms, etc. Swiss Radium & Dial Painting Co., Inc. 533,996, Nov. 28; Serial No. 577,406, published Sept. 5, 1950.

CLASS 29

Brushes. Star Brush Manufacturing Co., Inc. 533,991–3, Nov. 28; Serial Nos. 577,235–7, published Sept. 5, 1950.
Brushes. Whiting-Adams Company, Inc. 533,994, Nov. 28; Serial No. 577,243, published Sept. 5, 1950.

CLASS 31

Refrigerators, Ice. Allison-Erwin Company. 534,155, Nov. 28; Serial No. 579,387.

CLASS 32

Desks, Work, and stools, work chairs, etc. Standard Pressed Steel Co. 533,959, Nov. 28; Serial No. 572,599, published Aug. 22, 1950.
Lockers, Storage. All-Steel Equipment Inc. 533,871, Nov. 28; Serial No. 548,904, published Aug. 15, 1950.
Lockers, Storage. All-Steel Equipment Inc. 533,872, Nov. 28; Serial No. 549,038, published Aug. 15, 1950.
Mattresses. Eclipse Sleep Products Inc. 534,160, Nov. 28; Serial No. 583,035.
Umbrellas, Beach and garden, and outdoor metal furniture. The Finkel Umbrella Frame Company, Inc. 534,062, Nov. 28; Serial No. 584,275, published Aug. 15, 1950.
Venetian blinds. F. J. Tillman. 534,130, Nov. 28; Serial No. 533,645.

CLASS 33

Glassware, Table, glass pipettes and tubing, etc. James Powell & Sons (Whitefriars) Limited. 533,901–02, Nov. 28; Serial Nos. 560,050–1, published Aug. 15, 1950.

CLASS 34

Air conditioning units, Electrically operated. The Coroaire Heater Corporation. 534,054–5, Nov. 28; Serial Nos. 583,145–6, published Aug. 22, 1950.
Bars, Grate, grate parts, and stoker links. National Malleable and Steel Castings Company. 276,054, renewed Oct. 7, 1950. O. G. Nov. 28.
Boilers, Hot water range. Ford Steel Products Corporation. 533,923, Nov. 28; Serial No. 565,616, published Aug. 22, 1950.
Damper stacks, Automatic butterfly. Robbins & Myers, Inc. 533,976, Nov. 28; Serial No. 574,863, published Aug. 15, 1950.
Grill, Fireplace. J. A. Durst, Jr. 534,009, Nov. 28; Serial No. 578,323, published Aug. 29, 1950.
Stoves and ranges, Gas cooking. Detroit-Michigan Stove Company. 534,110, Nov. 28; Serial No. 589,134, published Aug. 15, 1950.

CLASS 36

Clappers. T. J. Goon. 534,153, Nov. 28; Serial No. 577,383.
Strings for musical instruments. National Musical String Co. 81,021, re-renewed Feb. 21, 1951. O. G. Nov. 28.

CLASS 37

Book marks, Mechanical. Park Sherman Co., Inc. 444,340, Nov. 28; Serial No. 512,693, published May 16, 1950.
Envelopes, Correspondence and mailing. Sheppard Envelope Company. 534,064, Nov. 28; Serial No. 584,420, published Aug. 1, 1950.
Labeling indicia. Western Lithograph Company. 533,858, Nov. 28; Serial No. 542,190, published June 13, 1950.
Paper, Bond. W. E. Wroe & Company. 42,194, Mar. 8, 1904. Republished Nov. 28.
Paper, Dusting and polishing. Kalamazoo Vegetable Parchment Co. 533,910, Nov. 28; Serial No. 561,830, published Aug. 29, 1950.

Paper, Toilet, paper towels, paper napkins, etc. Fort Howard Paper Company. 534,133, Nov. 28; Serial No. 537,035.
Paper, Writing and printing, and mailing and correspondence envelopes. Butler Paper Corporation. 533,857, Nov. 28; Serial No. 540,518, published June 20, 1950.
Pencils, Lead. Eagle Pencil Company. 49,122, Jan. 23, 1906. Republished Nov. 28.
Pencils, Lead. Eagle Pencil Company. 60,765, Feb. 19, 1907. Republished Nov. 28.

CLASS 38

Pamphlets. United Engineering and Foundry Company. 278,389, renewed Dec. 16, 1950. O. G. Nov. 28.
Publications, Monthly. The Texas Company. 277,893, renewed Dec. 2, 1950. O. G. Nov. 28.
Publications. Monthly, etc. Radio Magazines, Inc. 412,834, Mar. 27, 1945. New certificate. O. G. Nov. 28.

CLASS 39

Bootees. The Perry Knitting Company. 534,072, Nov. 28; Serial No. 584,921, published Aug. 22, 1950.
Boots and shoes. C. H. Hyer & Sons. 534,045-6, Nov. 28; Serial Nos. 582,479-80, published Aug. 22, 1950.
Boots and shoes. Lustig's. 274,847, renewed Sept. 9, 1950. O. G. Nov. 28.
Boots and shoes, Men's leather. John A. Frye Shoe Company, Inc. 534,067-8, Nov. 28; Serial Nos. 584,760-1, published Aug. 22, 1950.
Boots, Rubber, and rubber overshoes. La Crosse Rubber Mills Company. 533,960, Nov. 28; Serial No. 572,671, published Aug. 22, 1950.
Brassières, Lov-E Brassiere Company. 534,149, Nov. 28; Serial No. 572,181.
Brassières, girdles, corselets, etc. Even-Pul Foundations, Inc. 534,070, Nov. 28; Serial No. 584,805, published Aug. 22, 1950.
Christening sets, Infants', children's dresses, legging sets, etc. S. D. Shapiro, Inc. 533,898, Nov. 28; Serial No. 559,183, published Aug. 29, 1950.
Clothing, Men's. The May Department Stores Company. 533,951, Nov. 21, 1950; Serial No. 570,976, published Aug. 22, 1950.
Clothing, Men's, children's, and infants' cotton. S. Rosenberg. 442,940, June 21, 1949. Republished Nov. 28.
Coats, suits, and jackets, Ladies' and misses'. Philip Shlansky & Bro., Inc. 534,048, Nov. 28; Serial No. 582,654, published Aug. 22, 1950.
Coats, Ladies', misses', and junior misses'. Ken Whitmore, Inc. 533,940, Nov. 28; Serial No. 568,822, published Aug. 22, 1950.
Dresses, frocks, blouses, etc., Ladies' and girls'. Goldwaters, Incorporated. 533,974, Nov. 28; Serial No. 574,617, published Aug. 15, 1950.
Dresses, frocks, gowns, etc., Women's. "Societe Anonyme J. R." Société Anonyme. 533,933, Nov. 28; Serial No. 568,404, published Aug. 22, 1950.
Dresses, jackets, blouses, etc., Ladies' and misses'. Joseph Levay, Inc. 534,105, Nov. 28; Serial No. 587,493, published Aug. 29, 1950.
Dresses, shirts, play suits, etc., Women's and misses'. M. R. Sanders & Sons, Inc. 533,995, Nov. 28; Serial No. 577,946, published Aug. 22, 1950.
Girdles, corselets, brassières, and corsets. Even-Pul Foundations, Inc. 534,069, Nov. 28; Serial No. 584,804, published Aug. 22, 1950.
Gloves, Knitted, and knitted mittens. Gloversville Knitting Company. 534,079, Nov. 28; Serial No. 585,376, published Aug. 22, 1950.
Hair nets. The Glemby Company, Inc. 530,703, Sept. 12, 1950. Corrected. O. G. Nov. 28.
Hats and caps. Star Hat and Cap Co., Inc. 534,164, Nov. 28; Serial No. 587,140.
Hosiery. Arlington Silk Hosiery Co. Inc. 347,511, June 29, 1937. New certificate. O. G. Nov. 28.
Hosiery. S. D. Arrowood Co., Inc. 534,072, Nov. 28; Serial No. 585,098, published Aug. 29, 1950.
Hosiery. Shelton Hosiery Mills, Inc. 276,320, renewed Oct. 14, 1950. O. G. Nov. 28.
Hosiery. Wayne Knitting Mills. 533,848, Nov. 28; Serial No. 531,264, published Aug. 29, 1950.
Hosiery and ladies' underwear. Associated Knitters, Inc. 534,066, Nov. 28; Serial No. 584,747, published Aug. 22, 1950.
Hosiery, Women's. Glen Raven Knitting Mills, Inc. 534,076, Nov. 28; Serial No. 585,064, published Aug. 22, 1950.
Pajamas and nightgowns, Children's. Juvenile Underwear Corp. 534,080, Nov. 28; Serial No. 585,380, published Aug. 22, 1950.
Panty girdles. I. Fox. 533,937, Nov. 28; Serial No. 572,093, published Aug. 22, 1950.
Raincoats. The Popular Warehouses, Limited. 277,802, renewed Nov. 25, 1950. O. G. Nov. 28.
Raincoats. The Popular Warehouses, Limited. 277,804, renewed Nov. 25, 1950. O. G. Nov. 28.
Shirts, vests, drawers, and union suits, Men's, women's, and children's knitted. Brown Durrell Co. 80,827, re-renewed Feb. 7, 1951. O. G. Nov. 28.
Shoes. French, Shriner & Urner Manufacturing Co. 533,987, Nov. 28; Serial No. 576,676, published Aug. 22, 1950.
Shoes. The H. C. Godman Company. 534,147, Nov. 28; Serial No. 567,770.
Shoes. Mishawaka Rubber and Woolen Manufacturing Company. 533,954, Nov. 28; Serial No. 571,349, published Aug. 22, 1950.
Shoes. E. H. Neuwald. 534,111, Nov. 28; Serial No. 589,269, published Aug. 22, 1950.
Shoes. Shoe Corporation of America. 534,137, Nov. 28; Serial No. 550,955.
Shoes. Spalsbury-Steis Shoe Company. 534,098, Nov. 28; Serial No. 586,773, published Aug. 22, 1950.
Shoes and moccasins. G. H. Bass & Co. 534,089, Nov. 28; Serial No. 586,265, published Aug. 22, 1950.
Shoes and slippers. Frank Brothers Footwear, Inc. 534,059, Nov. 28; Serial No. 583,432, published Aug. 22, 1950.
Shoes, Boys' and girls'. Midland Shoe Company. 533,924, Nov. 28; Serial No. 565,794, published Aug. 22, 1950.
Shoes, Children's. Jordan Marsh Company. 534,084, Nov. 28; Serial No. 585,753, published Aug. 22, 1950.
Shoes, Children's. Albert H. Weinbrenner Co. 534,107, Nov. 28; Serial No. 587,697, published Aug. 22, 1950.
Shoes, Children's. Weyenberg Shoe Mfg. Company. 534,047, Nov. 28; Serial No. 582,585, published Aug. 22, 1950.
Shoes, Combination rubber and leather, and composition soles for shoes. Mishawaka Rubber and Woolen Manufacturing Company. 274,040, renewed Aug. 19, 1950. O. G. Nov. 28.
Shoes, Leather. The Coward Shoe, Inc. 533,908, Nov. 28; Serial No. 561,727, published Aug. 22, 1950.
Shoes, Leather. E. Schoenfeld. 280,520, renewed Feb. 17, 1951. O. G. Nov. 28.
Shoes, Men's and boys'. Midland Shoe Company. 533,925, Nov. 28; Serial No. 565,795, published Aug. 22, 1950.
Shoes, Men's, women's and children's. Belgrade Shoe Co. 534,058, Nov. 28; Serial No. 583,322, published Aug. 22, 1950.
Shoes, Misses' and women's. Shoecraft Shop, Inc. 280,384, renewed Feb. 17, 1951. O. G. Nov. 28.
Shoes, Women's. The F. & R. Lazarus & Company. 533,856, Nov. 28; Serial No. 537,905, published Aug. 29, 1950.
Shoes, Women's and girls'. Applebaum-Mautner Company, Inc. 533,873, Nov. 28; Serial No. 549,489, published Aug. 22, 1950.
Slips, nightgowns, pajamas, etc., Ladies' and children's princess. I. Schneierson & Sons, Inc. 534,010-11, Nov. 28; Serial Nos. 578,532-3, published Aug. 22, 1950.
Socks, stockings, scarves, etc. Munro & Company Limited. 533,889, Nov. 28; Serial No. 556,515, published Aug. 15, 1950.
Sweaters. I. Berger. 179,608, Feb. 12, 1924. Republished Nov. 28.
Sweaters, Children's and infants'. Cloverdale Knitwear Corporation. 534,071, Nov. 28; Serial No. 584,856, published Aug. 22, 1950.
Topcoats, overcoats, vests, etc., Men's and boys'. L. Greif & Bro., Inc. 533,863, Nov. 28; Serial No. 545,477, published Aug. 22, 1950.
Trousers, Men's. Corman & Wasserman, Inc. 533,855, Nov. 28; Serial No. 537,879, published Aug. 22, 1950.
Underwear, Ladies'. The McKay Products Corporation. 534,015, Nov. 28; Serial No. 579,336, published Aug. 15, 1950.
Underwear, Ladies'; men's pajamas and underwear. The May Department Stores Company. 534,092, Nov. 28; Serial No. 536,491, published Aug. 15, 1950.

CLASS 40

Combs. The Fuller Brush Company. 534,136, Nov. 28; Serial No. 548,952.

CLASS 42

Bedspreads, Chenille, bath mats, blankets, etc. Bell Textile Company, Inc. 444,338, Nov. 28; Serial No. 510,931, published Aug. 29, 1950.
Blankets, Woolen. St. Marys Woolen Manufacturing Company. 533,859, Nov. 28; Serial No. 542,784, published Aug. 22, 1950.
Carpets and rugs, Textile. The Wornock Mills, Inc. 533,919, Nov. 28; Serial No. 564,543, published Aug. 29, 1950.
Cloth. Fisch & Company. 533,865, Nov. 28; Serial No. 546,766, published Aug. 29, 1950.
Cotton goods in the piece. Wm. Simpson Sons & Co. 280,293, renewed Feb. 10, 1951. O. G. Nov. 28.
Fabrics, Rubber-coated. E. I. du Pont de Nemours and Company. 273,746, Aug. 12, 1930. Republished Nov. 28.
Fabrics, Woven cotton. Simmons Company. 534,114, Nov. 28; Serial No. 591,871, published Aug. 29, 1950.
Piece goods. Celanese Corporation of America. 533,999, Nov. 28; Serial No. 577,863, published Aug. 22, 1950.
Piece goods. Oscar Hayman Fabrics, Inc. 534,115, Nov. 28; Serial No. 592,205, published Aug. 29, 1950.
Piece goods, Woolen. Wawak Company, Inc. 533,843, Nov. 28; Serial No. 524,501, published Aug. 29, 1950.
Plastic film sheet material. Cohn-Hall-Marx Co. 534,000, Nov. 28; Serial No. 577,869, published Aug. 22, 1950.

CLASS 43

Thread. The Clark Thread Company. 274,234, Aug. 26, 1930. Republished Nov. 28.
Thread. J. & P. Coats (R. I.) Inc. 273,482, Aug. 5, 1930. Republished Nov. 28.

CLASS 44

Syringes. Gynex Corporation. 276,732, renewed Oct. 28, 1950. O. G. Nov. 28.
Tweezers, manicure and pedicure nippers, etc. Schnefel Brothers, Inc. 280,084, renewed Feb. 10, 1951. O. G. Nov. 28.

CLASS 45

Beverage, Nonalcoholic, maltless chocolate. Daigger Corporation. 274,405, renewed Aug. 26, 1950. O. G. Nov. 28.
Beverages, Nonalcoholic, noncereal, maltless. Myer Bottling Co., Inc. 275,934, renewed Oct. 7, 1950. O. G. Nov. 28.
Root beer and root-beer concentrate. Stewart's Root Beer Inc. 274,949, renewed Sept. 9, 1950. O. G. Nov. 28.

CLASS 46

Apples and peaches, Fresh. Adams County Fruit Packing and Distributing Company. 534,008, Nov. 28; Serial No. 578,307, published June 27, 1950.
Candies and frozen confections. Eskimo Pie Corporation. 278,312, renewed Dec. 16, 1950. O. G. Nov. 28.
Candy. The Flavour Candy Company. 533,874, Nov. 28; Serial No. 549,797, published July 4, 1950.
Candy. Richards Co., Inc. 533,864, Nov. 28; Serial No. 545,534, published Mar. 15, 1949.
Candy covering for frozen confections. Eskimo Pie Corporation. 279,732, renewed Jan. 20, 1951. O. G. Nov. 28.
Canned fish, clam chowder, fish chowder, etc. The F. H. Snow Canning Co., Inc. 533,838, Nov. 28; Serial No. 498,807, published June 6, 1950.
Canned fruits, canned vegetables, and canned fish. Lorraine Food Products. 533,887, Nov. 28; Serial No. 556,207, published July 18, 1950.
Canned fruits, canned vegetables, and fruit preserves. Embassy Grocery Corp. 279,449, renewed Jan. 13, 1951 O. G. Nov. 28.
Canned salmon. Deming & Gould Co. 78,946-7, July 26, 1910. Republished Nov. 28.
Canned salmon. Deming & Gould Co. 78,949, July 26, 1910. Republished Nov. 28.
Canned salmon. Deming & Gould Co. 78,952, July 26, 1910. Republished Nov. 28.
Canned salmon. Deming & Gould Co. 78,954, July 26, 1910. Republished Nov. 28.
Canned salmon. Deming & Gould Co. 79,326, Aug. 30, 1910. Republished Nov. 28.
Canned salmon. Deming & Gould Co. 274,858, Sept. 9, 1930. Republished Nov. 28.
Canned salmon. Pacific American Fisheries. 78,988, July 26, 1910. Republished Nov. 28.
Canned salmon. Pacific American Fisheries. 78,990-2, July 26, 1910. Republished Nov. 28.
Canned salmon. Pacific American Fisheries. 78,999, July 26, 1910. Republished Nov. 28.
Catsup, Tomato, canned shrimp, and canned apple sauce, etc. Lefkowits-Elias Company. 280,134, renewed Feb. 10, 1951. O. G. Nov. 28.
Coffee. James Van Dyk Company. 271,098, May 27, 1930. Republished Nov. 28.
Feeds, Commercial. Schultz, Baujan & Co. 533,842, Nov. 28; Serial No. 520,905, published July 18, 1950.
Feeds for domestic animals and poultry. Plainview Cotton Oil Co., Inc. 274,361, renewed Aug. 26, 1950. O. G. Nov. 28.
Flavoring extracts. King Extract Company. 533,861, Nov. 28; Serial No. 543,609, published June 27, 1950.
Flour, Wheat. The New Era Milling Company. 274,290-1, renewed Aug. 26, 1950. O. G. Nov. 28.
Flour, Wheat. The New Era Milling Company. 274,831, renewed Sept. 9, 1950. O. G. Nov. 28.
Fruits, Fresh citrus. Chandler Heights Citrus Growers. 534,154, Nov. 28; Serial No. 578,074.
Meat, Potted, ham flavor; potted meat, tongue flavor; etc. Vette & Zuncker Packing Company. 80,329, re-renewed Dec. 6, 1950. O. G. Nov. 28.
Olives, Bottled. Falcon Packing Co. Inc. 381,822, Oct. 8, 1940. Republished Nov. 28.
Pop corn, Popped and salted, and pop corn in its natural state. Stewart's Root Beer Inc. 274,935, renewed Sept. 9, 1950. O. G. Nov. 28.
Salt, Medium; table salt; salt spools, etc. The Carey Salt Company. 533,853, Nov. 28; Serial No. 537,150, published July 4, 1950.
Shortening, Vegetable. The Capital City Products Company. 533,860, Nov. 28; Serial No. 542,812, published July 18, 1950.

CLASS 49

Whiskey. Taylor & Williams, Incorporated. 280,199, renewed Feb. 10, 1951. O. G. Nov. 28.
Whisky. J. G. Turney & Son, Limited. 276,715, renewed Oct. 28, 1950. O. G. Nov. 28.

CLASS 50

Dish covers, Flexible plastic food, and washing machine covers, rubber sink mats. Sears, Roebuck and Co. 533,876, Nov. 28; Serial No. 550,084, published Aug. 29, 1950.
Kit for making miniature models. Fador Manufacturing Corp. 534,028, Nov. 28; Serial No. 580,655, published Aug. 15, 1950.
Plaques, reliefs, statuary, garment hangers. W. & J. Sloane. 534,042, Nov. 28; Serial No. 582,067, published Aug. 15, 1950.
Souvenirs. National Baseball Hall of Fame and Museum, Inc. 533,905, Nov. 28; Serial No. 561,257, published Aug. 29, 1950.
Tents, wagon and truck covers, etc. Little Rock Tent and Awning Company. 534,088, Nov. 28; Serial No. 586,094, published Aug. 22, 1950.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. L. Mocq. 279,989, renewed Feb. 10, 1951. O. G. Nov. 28.
Cosmetics. House of Lowell, Inc. 534,030, Nov. 28; Serial No. 580,840, published July 25, 1950.
Cosmetics. J. B. Nethercutt. 534,129, Nov. 28; Serial No. 522,283.
Cosmetics. J. J. Pomeranz. 533,881, Nov. 28; Serial No. 554,255, published Sept. 5, 1950.
Lipstick, face powder, perfume, cologne and brilliantine. Consolidated Cosmetics. 534,041, Nov. 28; Serial No. 582,028, published July 25, 1950.
Perfumes and toilet water, face powders, etc. Ybry, Inc. 274,703, renewed Sept. 2, 1950. O. G. Nov. 28.
Perfumes and toilet waters. Lanvin-Parfums, Inc. 521,642, Feb. 28, 1950. Corrected. O. G. Nov. 28.
Perfumes, toilet waters. Lanvin-Parfums, Inc. 527,739, July 18, 1950. Corrected. O. G. Nov. 28.
Powder for infants. Q-Tips Inc. 533,930, Nov. 28; Serial No. 567,714, published Aug. 29, 1950.
Skin conditioner, Liquid lotion type. Undertakers Supply Company. 533,888, Nov. 28; Serial No. 556,496, published July 25, 1950.
Skin oil, astringent skin lotion, astringent skin cream oil, etc. Helena Rubinstein Inc. 533,839, Nov. 28; Serial No. 514,670, published Aug. 29, 1950.
Toilet creams, toilet waters, and hair tonics. General Drug Company. 80,911, re-renewed Feb. 14, 1951. O. G. Nov. 28.
Tooth powder. H. W. Crouch. 534,151, Nov. 28; Serial No. 574,136.
Tooth powder and tooth paste. The Medammin Corp. 534,029, Nov. 28; Serial No. 580,791, published Aug. 15, 1950.

CLASS 52

Cleaner, General household. R. R. Stone. 533,926, Nov. 28; Serial No. 566,482, published Aug. 29, 1950.
Cleaning compositions, Water soluble. Klem Chemicals, Inc. 533,984, Nov. 28; Serial No. 576,382, published Aug. 29, 1950.
Compound for use in cleaning white wall tires. Shur Gloss Manufacturing Co. 533,968, Nov. 28; Serial No. 573,690, published Aug. 29, 1950.
Detergent, Soapless. Schaeffer Mfg Co. 534,037, Nov. 28; Serial No. 581,737, published Aug. 29, 1950.
Hair shampoo. Lo-Calory Food Corporation. 534,161, Nov. 28; Serial No. 584,141.
Preparation for cleaning terrazzo, marble, tile, etc. The Du Bois Soap Co. 273,183, renewed July 22, 1950. O. G. Nov. 28.
Soap, Toilet. A. Cordero. 534,032, Nov. 28; Serial No. 581,252, published Aug. 29, 1950.
Soap, Toilet. Soap Craft, Inc. 444,341, Nov. 28; Serial No. 514,226, published Aug. 29, 1950.
Spray, Livestock, soluble powder type radiator cleaner, etc. Phillips Petroleum Company. 529,105, Aug. 15, 1950. Corrected. O. G. Nov. 28.

CLASS 101

Income tax accounting services. G. A. McNeil. 534,122, Nov. 28; Serial No. 545,587, published Aug. 22, 1950.

CLASS 103

Inspection, maintenance, and repair of automotive equipment. Joe Simpkins Inc. 534,121, Nov. 28; Serial No. 542,178, published Aug. 22, 1950.

CLASS 105

Grain and milling services. F. H. Peavey & Company. 534,119, Nov. 28; Serial No. 526,908, published Aug. 8, 1950.
Grain and milling services. F. H. Peavey & Company. 534,120, Nov. 28; Serial No. 526,939, published Aug. 8, 1950.
Storing furs and fur-trimmed garments. H. Wasbers. 534,123, Nov. 28; Serial No. 573,449, published Aug. 22, 1950.

CLASS 106

Alloy coating the metal surfaces of type casting machine parts. Mergenthaler Linotype Company. 534,125, Nov. 28; Serial No. 579,881, published Aug. 22, 1950.

CLASS 107

Entertainment service. E. J. Dripps. 534,124, Nov. 28; Serial No. 573,478, published Aug. 22, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dexter Company, The, assignee: *See*—
Dunn, Vernon E.

Dunn, Vernon E., Alliance, Ohio, assignor to The Dexter Company, Fairfield, Iowa. Washing machine drive mechanism. Re. 23,296, Nov. 28.

Florence Stove Company, assignee: *See*—
Reeves, Herbert M.

Goodman Manufacturing Company, assignee: *See*—
Slomer, Joseph J.

Hyman, Mark, Jr., Belmont, and C. D. West, assignors to Polaroid Corporation, Cambridge, Mass. Sheetlike light-polarizing complex of iodine and a polyvinyl compound with protective surface boric acid-polyvinyl compound complex. Re. 23,297, Nov. 28.

Johnson Corporation, The, assignee: *See*—
Monroe, Rollo O.

Monroe, Rollo O., assignor to The Johnson Corporation, Three Rivers, Mich. Swing joint. Re. 23,298, Nov. 28.

Polaroid Corporation, assignee: *See*—
Hyman, Mark, Jr., and West.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Primary air and gas supply means for burners. Re. 23,299, Nov. 28.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Cable reel. Re. 23,300, Nov. 28.

West, Cutler D.: *See*—
Hyman, Mark, Jr., and West.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 992, Nov. 28.

Dering, Eldon P., assignee: *See*—
Swim, Herbert C.

Di Giorgio Fruit Corporation, assignee: *See*—
Stark, Elmer.

Hagerstrom, Carl R., assignee: *See*—
Hagerstrom, Marion.

Hagerstrom, Marion, assignor of one-half to C. R. Hagerstrom, Enfield, Minn. Strawberry plant. 993, Nov. 28.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

Peterson & Dering: *See*—
Swim, Herbert C.

Stark, Elmer, Di Giorgio, assignor to Di Giorgio Fruit Corporation, San Francisco, Calif. Plum tree. 995, Nov. 28.

Swim, Herbert C., Ontario, Calif., assignor, by means assignments, to E. P. Dering, doing business under the name and style of Peterson & Dering, Scappoose, Oreg. Rose plant. 994, Nov. 28.

LIST OF DESIGN PATENTEES

Alkire, Elbern H., Easton, Pa. Pedal control. 160,987, Nov. 28.

Ament, James W., Youngstown, Ohio. Combination chewing gum and coin dispenser. 160,988, Nov. 28.

Anderson, Emily A., assignee: *See*—
Sneed, John.

Anderson, Willis B., assignee: *See*—
Sneed, John.

Andres, Lloyd J., assignor to Permo, Incorporated, Chicago, Ill. Phonograph needle. 160,989, Nov. 28.

Andrews, Boley A., Kansas City, Kans., assignor to The Vendo Company, Kansas City, Mo. Key actuated switch post. 160,990, Nov. 28.

Arden, Elizabeth, Sales Corporation, assignee: *See*—
Flato, Paul E.

Artistic Foundations, Inc., assignee: *See*—
Torok, Frank.

Atkins, Allen L., assignee: *See*—
Hoffmann, Elmer L., and Atkins.

Baldanza, Nicholas T., Rutherford, assignor to Columbia Protektosite Co. Inc., Carlstadt, N. J. Toy accordian. 160,991, Nov. 28.

Belaief, Irving, assignor to Dainty Maid Hosiery Co., Inc., New York, N. Y. Lady's stocking or similar article. 160,992, Nov. 28.

Bernzott, Hugo: *See*—
Gardner, René, and Bernzott.

Boucher, Wilbur J., assignor to Fort Howard Paper Company, Green Bay, Wis. Paaper napkin. 160,993, Nov. 28.

Brummel, Gordon T., Chicago, Ill. Interlocking hook. 160,994, Nov. 28.

Busa, Mary F., Lakewood, Ohio. Combined flexibly connected front and rear view mirrors and mounting support therefor. 160,995, Nov. 28.

Carleton, George, New York, N. Y. Atomizer. 160,996, Nov. 28.

Casco Products Corporation, assignee: *See*—
Thomson, Ernest F.

Champayne, Roy J., Rockford, Ill. Motor casing for a portable rubbing machine. 160,997, Nov. 28.

Chance, A. B., Company, assignee: *See*—
Hollander, William L.

Charette, Odilon, Fitchburg, Mass. Combined plant holder and bracket therefor. 160,998, Nov. 28.

Chase, Daryl, Logan, Utah. Novelty covered box. 160,999, Nov. 28.

Chicago Electric Manufacturing Company, assignee: *See*—
Sebastian, Ford.

Chika, John J., Bloomfield Hills, Mich. Automobile body. 161,000, Nov. 28.

Chika, John J., Bloomfield Hills, Mich. Automobile body. 161,001, Nov. 28.

Clark, Fred S., New York, N. Y. Garter grip. 161,002, Nov. 28.

Colman, Myron H., Chicago, Ill. Combination cigarette dispenser and ash tray. 161,003, Nov. 28.

Columbia Protektosite Co. Inc., assignee: *See*—
Baldanza, Nicholas T.

Cook, Earl F., Marblehead, Mass. Table lobster tool. 161,004, Nov. 28.

Corpora, Alexander, Los Angeles, Calif. Tie slide. 161,005, Nov. 28.

Dailey, James R., assignor to Turner Manufacturing Company, Kokomo, Ind. Wheel balance weight. 161,006, Nov. 28.

Dainty Maid Hosiery Co., Inc., assignee: *See*—
Belaief, Irving.

Da-Lite Screen Company, Inc., assignee: *See*—
Gardner, René, and Bernzott.

Dover, Samuel M., Chicago, Ill. Audible signal device. 161,007, Nov. 28.

Doyle, Joel G., Kansas City, Mo. Rotary mower housing. 161,008, Nov. 28.

Enstrom, Rudolph J., and O. R. Sandstrom, Crystal Falls, Mich. Hair clippers or similar article. 161,009, Nov. 28.

Erickson, Charles, and E. Spellman, New York, N. Y. Dispensing head for frozen condiment. 161,010, Nov. 28.

Fabergé, Inc., assignee: *See*—
Piccoli, Girolamo.

Fall River Curtain Co., Inc., assignee: *See*—
Harrell, William A.

Flato, Paul E., assignor to Elizabeth Arden Sales Corporation, New York, N. Y. Compact or similar article. 161,011, Nov. 28.

Fort Howard Paper Company, assignee: *See*—
Boucher, Wilbur J.

Foster, Leon H., Brooklyn, N. Y. Illuminable display device. 161,012, Nov. 28.

Garner, René, Elmhurst, and H. Bernzott, Niles, Ill., assignors to Da-Lite Screen Company, Inc. Combined end cap and sleeve for slat for screens. 161,013, Nov. 28.

General Motors Corporation, assignee: *See*—
Gonas, Albert J.
Haviland, Glenford M.
General Radio Company, assignee: *See*—
Littlejohn, Henry C.
Gerson, Samuel L., Vineland, N. J. Brush cabinet. 161,014, Nov. 28.
Gillette, Erving R., Twentynine Palms, Calif. Condiment container holder. 161,015, Nov. 28.
Godfried, Samuel, assignor to Godfried Underwear Co., Inc., New York, N. Y. Slip. 161,016, Nov. 28.
Godfried Underwear Co., Inc., assignee: *See*—
Godfried, Samuel.
Goetz, Joseph F., Dayton, Ohio. Musical toy. 161,017, Nov. 28.
Gonas, Albert J., assignor to General Motors Corporation, Detroit, Mich. Automotive vehicle inside door handle. 161,018, Nov. 28.
Gonas, Albert J., assignor to General Motors Corporation, Detroit, Mich. Automotive vehicle window regulator handle. 161,019, Nov. 28.
Hamer, Leland S., Long Beach, Calif. Coupling for pipes or the like. 161,020, Nov. 28.
Harrell, William A., Baldwin, assignor to Fall River Curtain Co., Inc., New York, N. Y. Textile fabric or similar flat surface material. 161,021, Nov. 28.
Haviland, Glenford M., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Automotive vehicle window regulator handle. 161,022, Nov. 28.
Herman, Kurt W., Richmond Hill, N. Y. Christmas tree decorative ornament. 161,023, Nov. 28.
Herpin, Ivey, Dallas, Tex. Automobile vehicle. 161,024, Nov. 28.
Hoffmann, Elmer L., Park Ridge, and A. L. Atkins, Chicago, Ill., said Hoffmann assignor to said Atkins. Combined electrical jig saw and sander. 161,025, Nov. 28.
Hollander, William L., assignor to A. B. Chance Company, Centralia, Mo. Combination light fixture, plant holder, and the like. 161,026, Nov. 28.
Hotpoint Inc., assignee: *See*—
Sandin, Ray C.
ILG Electric Ventilating Co., assignee: *See*—
Pfautsch, Raymond V.
Kaiser-Frazer Corporation, assignee: *See*—
Lindbergh, Howard V., and Weissinger.
Knapp-Monarch Company, assignee: *See*—
McCarron, Donald F.
Knight, George C., Detroit, assignor to George C. Knight Company, Oak Park, Mich. Automobile rearview mirror or similar article. 161,027, Nov. 28.
Knight, George C., Company, assignee: *See*—
Knight, George C.
Levin, Eugene, Dallas, Tex. Disinfecting garbage container. 161,028, Nov. 28.
Lindberg, Howard V., Belleville, and H. F. Weissinger, Franklin, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Hood ornament. 161,029, Nov. 28.
Littlejohn, Henry C., Lexington, assignor to General Radio Company, Cambridge, Mass. Electrical binding-post terminal. 161,030, Nov. 28.
MacLeod, Bertram H., Lima, Ohio. Shoe sole. 161,031, Nov. 28.
Manas, Carl, New York, N. Y. Foot massage oscillator. 161,032, Nov. 28.
Marcus, Sam, Newark, N. J. Combination ring and cigarette holder. 161,033, Nov. 28.
Marthinsen, Mads, Michigan City, Ind. Hammer. 161,034, Nov. 28.
McCarron, Donald F., assignor to Knapp-Monarch Company, St. Louis, Mo. Waffle iron or similar article. 161,035, Nov. 28.
Newton, Frank W.: *See*—
Stratman, Lester B., and Newton.
Norriss, Jan, New York, N. Y. Multiple holder for cosmetic preparations or the like. 161,036, Nov. 28.
Permo, Incorporated, assignee: *See*—
Andres, Lloyd J.
Pfautsch, Raymond V., assignor to ILG Electric Ventilating Co., Chicago, Ill. Ventilator grille. 161,037, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,038, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,039, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 161,040, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 161,041, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 161,042, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Separable brooch or similar article. 161,043, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,044, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,045, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,046, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,047, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,048, Nov.28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or similar article. 161,049, Nov. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or similar article. 161,050, Nov. 28.
Phillips-Lester Manufacturing Company, Inc., assignee: *See*—
Schwab, Minnie M.
Piccoli, Girolamo, Croton-on-the-Hudson, assignor to Fabergé, Inc., New York, N. Y. Lipstick holder. 161,051, Nov. 28.
Powers, John J., St. Louis, Mo. Automobile truck. 161,052, Nov. 28.
Reynolds Metals Company, assignee: *See*—
Stevenson, Ralph W.
Rudd, George, assignor to The Walker China Company, Bedford, Ohio. Plate or similar article. 161,053, Nov. 28.
Rutka, Stanley J., Gheen, Minn. Paper dispenser. 161,054, Nov. 28.
Sandin, Ray C., Oak Park, Ill., assignor to Hotpoint Inc. Electric range backsplasher. 161,055, Nov. 28.
Sandstrom, Oscar R.: *See*—
Enstrom, Rudolph J., and Sandstrom.
Sargent, William, London, England. Machine for cutting paper or the like. 161,056, Nov. 28.
Schwab, Minnie M., Birmingham, Ala., assignor to Phillips-Lester Manufacturing Company, Inc. Lady's dungarees. 161,057, Nov. 28.
Se Bastian, Ford, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Air circulator. 161,058, Nov. 28.
Shane, David T.: *See*—
Shevin, Jack R., and Shane.
Shevin, Jack R., and D. T. Shane, Chicago, Ill. Key retainer. 161,059, Nov. 28.
Skelley, Jack J., Butte, Mont. Motor vehicle or similar article. 161,060, Nov. 28.
Sneed, John, assignor to W. B. and E. A. Anderson, Detroit, Mich. Hood ornament or similar article for motor vehicles. 161,061, Nov. 28.
Spellman, Erick: *See*—
Erickson, Charles, and Spellman.
Stacy, Ted R., assignor to Totebrush, Incorporated, Chicago, Ill. Box. 161,062, Nov. 28.
Stevens, Clifford B., Milwaukee, Wis. Combined automobile transport truck and trailer. 161,063, Nov. 28.
Stevenson, Ralph W., Grand Rapids, Mich., assignor to Reynolds Metals Company, Richmond, Va. Bottle holding tray. 161,064, Nov. 28.
Stratman, Lester B., Santa Monica, and F. W. Newton, Los Angeles, Calif. Fish lure carrier. 161,065, Nov. 28.
Sullivan, John J., Norfolk, Va. Automobile service station. 161,066, Nov. 28.
Thomson, Ernest F., Tuckahoe, N. Y., assignor to Casco Products Corporation, Bridgeport, Conn. Box for portable tools and accessories. 161,067, Nov. 28.
Torok, Frank, assignor to Artistic Foundations, Inc., New York, N. Y. Bathing suit. 161,068, Nov. 28.
Torok, Frank, assignor to Artistic Foundations, Inc., New York, N. Y. Bathing suit. 161,069, Nov. 28.
Torok, Frank, assignor to Artistic Foundations, Inc., New York, N. Y. Bathing suit. 161,070, Nov. 28.
Totebrush, Incorporated, assignee: *See*—
Stacey, Ted R.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Turner Manufacturing Company, assignee: *See*—
Dailey, James R.
Vendo Company, The, assignee: *See*—
Andrews, Boley A.
Walker China Company, The, assignee: *See*—
Rudd, George.
Weiss, Joan, New York, N. Y. Combined bobby pin and perfume holder. 161,071, Nov. 28.
Weissinger, Herbert F.: *See*—
Lindbergh, Howard V., and Weissinger.
White, Stevenson, Owings Mills, Md. Strip dispenser. 161,072, Nov. 28.
Williams, Harvey A., Davison, Mich. Gun sight. 161,073, Nov. 28.
Wolfenden, John W., Attleboro, Mass. Vest chain or similar article. 161,074, Nov. 28.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

ACF-Brill Motors Company, assignee: *See*—
Chapman, James F., and Latshaw.
Abrahams, Leon H., assignor to Koffy-Pak Corp., Chicago, Ill. Packaged coffee. 2,531,594, Nov. 28.
Abrahamson, Charles M., Aurora, Ill., assignor to All-Steel Equipment Inc. Business machine support for desk drawers. 2,531,381, Nov. 28.
Ackell, Joseph J., Bellaire, and H. L. Paulding, Port Washington, N. Y., assignors, by mesne assignments, to Dow Jones & Company, Inc., Wilmington, Del. Telegraphic printing system and method. 2,531,868, Nov. 28.
Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Fertilizer spreader. 2,532,050, Nov. 28.
Adalbert, Georg C., Stabekk, near Oslo, Norway. Automatic fire extinguisher for motor carburetors. 2,531,490, Nov. 28.
Adams, Mozel A., Evangeline, assignor to T. Crain and G. P. Modlish, Jefferson Davis Parish, La. Pipe roller. 2,531,545, Nov. 28.
Addressograph-Multigraph Corporation, assignee: *See*—
Janke, Edward J.
Aerojet Engineering Corporation, assignee: *See*—
Zucrow, Maurice J.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Arthur, Jett C., Jr.
Hills, Claude H.
Schopmeyer, Clifford S.
Air Reduction Company, Incorporated, assignee: *See*—
Kiernan, Joseph F.
Aktiebolaget Wilh Becker, assignee: *See*—
Nilsson, Nils A.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Mayerhans, August.
Pfenninger, Hans.
Albertson, Noel F., East Greenbush, assignor to Sterling Drug Inc., New York, N. Y. Preparation of alpha-acylamino-alpha-substituted-acetic acids. 2,531,595, Nov. 28.
Alburn, Harvey E., and E. G. Snyder, assignors to Wyeth Incorporated, Philadelphia, Pa. Recovering and purifying streptomycin. 2,531,869, Nov. 28.
Allan, John M., Vancouver, British Columbia, Canada. Bed table adjustable vertically and tiltably. 2,531,762, Nov. 28.
Allen, Arthur C.: *See*—
Williams, Lynn A., Jr., and Allen.
Allen, Herbert, and M. T. Works, assignors to Cameron Iron Works, Inc., Houston, Tex. Sealing and testing wellhead connections. 2,531,596, Nov. 28.
Allied Chemical & Dye Corporation, assignee: *See*—
Hammaren, Berndt W., and Townend.
Allen Control Company, Inc. (1947), assignee: *See*—
Bancroft, James E.
Allied Process Corporation, assignee: *See*—
Tobler, Henry, Jr.
Winternitz, Paul F.
Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Forwald, Haakon.
Lamm, Uno.
All-Steel Equipment Inc., assignee: *See*—
Abrahamson, Charles M.
Alter, Harry, Company, The, assignee: *See*—
Cahenzli, Martin T., Jr.
Aluminum Company of America, assignee: *See*—
Moore, George L., Sicha, and Wrege.
Alvarez, Octavio J., assignor to Alvarez Patent Corporation, New York, N. Y. Timing switch. 2,531,491, Nov. 28.
Alvarez Patent Corporation, assignee: *See*—
Alvarez, Octavio J.
Alvino, Alphonse V., Newark, assignor to Bendix Aviation Corporation, Teterboro, N. J. Direction determining and reverse operating means. 2,531,719, Nov. 28.
American Car and Foundry Company, assignee: *See*—
Kuhler, Otto.
American Cyanamid Company, assignee: *See*—
Todd, Seldon P., Myers, and Cauwenberg.
Waletzky, Emanuel.
Waletzky, Emanuel, and Marson.
American Cystoscope Makers, Inc., assignee: *See*—
Wallace, Frederick J.
American Engineering Company, assignee: *See*—
Midgette, Ernst L., and Reid.
American Optical Company, assignee: *See*—
Moulton, Harold R.
American Package Corporation, assignee: *See*—
Ramsey, Raymond G.
American Safety Razor Corporation, assignee: *See*—
Landwehr, Richard F.
Tait, Wilfred E., and Stellpflug.
American Seating Company, assignee: *See*—
Davis, Robert L.
American Steel and Wire Company of New Jersey, The, assignee: *See*—
Brickman, Alan E.
Canney, Charles G.
Elder, Flint C., and Johns.
American Viscose Corporation, assignee: *See*—
Roberts, Ingham S.
American Wheelabrator & Equipment Corporation, assignee: *See*—
Zahn, Otto E.
Anderson, Benhart J., Santa Ana, Calif. Catfish skinning and cleaning clamp. 2,531,546, Nov. 28.
Anderson, Carl A., Cranston, R. I., assignor to Anson Incorporated. Extension key chain. 2,531,835, Nov. 28.
Anderson Coach Company, assignee: *See*—
Thompson, Raymond A.
Anderson, Edmund C., Homewood, assignor to Kensington Steel Company, Chicago, Ill. Hammer and renewable tip for hammer mills. 2,531,597, Nov. 21.
Anderson, James H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Cushioning device for rock drill handles. 2,531,800, Nov. 28.
Anderson, Morris L.: *See*—
Barkan, Louis R., and Anderson.
Andre, Jules E., Montclair, N. J. Ski boot. 2,531,763, Nov. 28.
Andres, Lloyd J., Itasca, assignor, by mesne assignments, to H. C. Evans & Company, Chicago, Ill. Clutch and control mechanism therefor. 2,532,266, Nov. 28.
Andresen, John H., Jr.: *See*—
Angst, Walter, and Andresen.
Andrews, Fred W., assignor to International Latex Corporation, Dover, Del. Baby pants. 2,531,900, Nov. 28.
Andrus, Elwin A., assignee: *See*—
Bierce, Burton B.
Anemostat Corporation of America, assignee: *See*—
Honerkamp, Friedrich.
Anglo American Corporation of South Africa Limited, assignee: *See*—
Bean, David R.
Angst, Walter, Manhasset, and J. H. Andresen, Jr., Port Washington, N. Y., assignors to Square D Company, Detroit, Mich. Rate of change indicator. 2,531,492, Nov. 28.
Anselm and Company, assignee: *See*—
Whittaker, Edward G.
Anson Incorporated, assignee: *See*—
Anderson, Carl A.
Antioch College, assignee: *See*—
Bean, Xarifa L.
Appel, Oscar, Paterson, N. J. Controlling combustion in internal-combustion engines. 2,531,493, Nov. 28.
Appleton, John R.: *See*—
Essex, Jesse L., and Appleton.
Arditi, Maurice, assignor to International Standard Electric Corporation, New York, N. Y. Vacuum tube electrode. 2,531,382, Nov. 28.
Arkell Safety Bag Company, assignee: *See*—
Arkell, William C.
Arkell, William C., Englewood, N. J., assignor to Arkell Safety Bag Company, New York, N. Y. Composite material. 2,531,931, Nov. 28.
Arthur, Jett C., Jr., Metairie, La., assignor to the United States of America as represented by the Secretary of Agriculture. Stabilization of viscous dispersions of cottonseed proteins. 2,531,383, Nov. 28.
Arvastsson, Otto A., Malmo, Sweden. Carburetor. 2,531,661, Nov. 28.
Asdell, Bernard K.: *See*—
Barrett, William H., and Asdell.
Ashton, Philip E., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric cigar lighter. 2,531,901, Nov. 28.
Atchison, Arreather R., Detroit, Mich. Television aerial. 2,532,138, Nov. 28.
Atwood, John B., and G. E. Hansell, Riverhead, N. Y., assignors to Radio Corporation of America. Pulse identification. 2,531,494, Nov. 28.
Avery, Harold T., Oakland, Calif. Balancing means for rotating wing. 2,531,598, Nov. 28.
Ayres, Charles E., Phillips, Tex., assignor to Phillips Petroleum Company. Apparatus for washing oils with an immiscible wash liquid. 2,531,547, Nov. 28.
Azbe Corporation, assignee: *See*—
Azbe, Victor J.

Azbe, Victor J., Webster Groves, assignor to Azbe Corporation, Clayton, Mo. Kiln. 2,532,077, Nov. 28.

Babcock & Wilcox Tube Company, The, assignee: *See*—
Newell, Harold D.

Bader, Charles L., and C. C. Stone, Wichita, Kans. Pants stretcher. 2,531,599, Nov. 28.

Baeyertz, Mary, Chicago, Ill., and W. M. Lindsey, Rumford, R. I., assignors to Carnegie-Illinois Steel Corporation. Chromium stainless steels. 2,531,720, Nov. 28.

Baggott, Edmund W., Brooklyn, assignor to Ideal Novelty & Toy Co., Hollis, N. Y. Combination toy bank and music box. 2,531,495, Nov. 28.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.

Bailey, Robert S., assignor to International Standard Electric Corporation, New York, N. Y. Polyphase cyclotron. 2,531,384, Nov. 28.

Bailey, William A., New York, N. Y. Portable heater and cooker. 2,532,139, Nov. 28.

Baines, John A., assignor to Rotax Limited, London, England. Ignition magneto. 2,531,961, Nov. 28.

Baird Machine Company, The, assignee: *See*—
Lewis, Arthur J.

Baker, John C.: *See*—
Tryor, Ivan E., and Baker.

Baker Oil Tools, Inc., assignee: *See*—
Lee, Francis H.

Bancroft, James E., Jamaica, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc. (1947). Coil winding machine. 2,531,962, Nov. 28.

Banner, Herbert F., Easton, Md. Heel. 2,531,963, Nov. 28.

Barkan, Louis R., and M. L. Anderson, Massillon, assignors to Eaton Manufacturing Company, Cleveland, Ohio. Split ring expander. 2,532,141, Nov. 28.

Barnebey, Herbert L., Richmond Township, Allegheny County, assignor to Blaw-Knox Company, Pittsburgh, Pa. Electric immersion heater. 2,531,385, Nov. 28.

Barney, Harold L., Madison, L. C. Peterson, Chatham, R. K. Potter, Madison, and R. W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron beam tube filter. 2,531,600, Nov. 28.

Baron, Constantine W., Oakland, N. J. Detachable bicycle carrier-universal detachable tray. 2,531,902, Nov. 28.

Barr, Max W., Midland, Mich. Boat awning. 2,531,836, Nov. 28.

Barrett, William H., and B. K. Asdell, International Falls, assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn. Coating paper. 2,532,140, Nov. 28.

Barrow, Wilmer L., Concord, Mass., and W. W. Mieher, Mineola, N. Y., assignors to The Sperry Corporation. Directive antenna structure. 2,531,455, Nov. 28.

Bascetta, Angelo, assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Target operated switch for box-making machines. 2,532,005, Nov. 28.

Bates, Ernest F.: *See*—
Bray, Frederick H., Bates, and Doughty.

Baumgartner, Richard A.: *See*—
Upper, Frederick A., and Baumgartner.

Baxter, Donald L., assignor to Reliable Electric Company, Chicago, Ill. Fuse. 2,532,078, Nov. 28.

Beach, Harland E., Valparaiso, Ind. Device for eliminating squeaks from board structures. 2,532,006, Nov. 28.

Bean, David R., Greenside, Johannesburg, assignor to Anglo American Corporation of South Africa Limited, Johannesburg, Transvaal, Union of South Africa. Electric metallurgical apparatus. 2,531,964, Nov. 28.

Bean, Morris, assignee: *See*—
Bean, Xarifa L.

Bean, Xarifa, assignee: *See*—
Bean, Xarifa L.

Bean, Xarifa L., assignor to Antioch College, M. and X. Bean, A. D. Henderson, A. E. Morgan, and W. Beatty, Yellow Springs, Ohio. Forming a plaster mold or core for casting metals. 2,531,496, Nov. 28.

Beattie, Horace S.: *See*—
Dean, Kenneth W., Beattie, and Page.

Beatty, William, assignee: *See*—
Bean, Xarifa L.

Beatty, William E., Los Angeles, Calif., assignor to Motoview, Inc., Carson City, Nev. Television view finder. 2,531,497, Nov. 28.

Beck, George H., Maplewood, and J. Z. Forls, Union, N. J. Mold base. 2,531,965, Nov. 28.

Beck, Robert W., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Drilling fluids. 2,531,662, Nov. 28.

Beebe, George F., Waterbury, Conn. Safety guard for presses. 2,531,837, Nov. 28.

Beech-Nut Packing Company, assignee: *See*—
Gonia, Harold A.

Behringer, Grover F., Defiance, Ohio, assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. Tuner. 2,532,051, Nov. 28.

Bell, Richmond T., and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Mercaptan synthesis. 2,531,601, Nov. 28.

Bell, Richmond T., Highland Park, assignor to The Pure Oil Company, Chicago, Ill. Production of thioethers and/or mercaptans. 2,531,602, Nov. 28.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Barney, Harold L., Peterson, Potter, and Sears.
Erwin, Edson L.
Fox, Arthur G.
Goodall, William M.
Hague, Alfred E., and Joel.
Hale, Douglas A. S., and Kircher.
Hanscom, Clarence D.
Hartley, Ralph V. L.
Hersey, Ralph E.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Lewis, Willard D.
Miller, Charles G.
Potter, Ralph K.
Singer, Fred J., and Stacy.
Whidden, William E.
Ziegler, Arthur W.

Belmont Radio Corporation, assignee: *See*—
Behringer, Grover F.

Beltz, John S., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Safety electrical control for drilling machines. 2,532,079, Nov. 28.

Benbow, Burtis W., Benbow, Calif. Apparatus for continuously vulcanizing rubber strip material. 2,532,080, Nov. 28.

Bendix Aviation Corporation, assignee: *See*—
Alvino, Alphonse V.
Bolt, Jay A., and Jackson.
Bower, Howard S.
Burnett, Richard T.
Emerson, John F.
MacDuff, Stanley I.
Martin, John G.
Mock, Frank C.
Price, Harold W.
Reek, Royal J., and Wisman.
Schultz, Harold B.
Sutton, Richard A.
Thomas, Thomas H.

Bennett, Owen G., Baltimore, Md., assignor to Catalyst Research Corporation, Pittsburgh, Pa. Heating device. 2,531,548, Nov. 28.

Benton Ballou Company, Ltd., assignee: *See*—
Waters, Laurence W.

Berck, William F., Hayward, assignor to Ralph N. Brodie Company, Oakland, Calif. Positive displacement type fluid meter. 2,531,603, Nov. 28.

Berck, William F., assignor to Ralph N. Brodie Company, Oakland, Calif. Two-cylinder rotary motor. 2,531,903, Nov. 28.

Berge, Joseph, Maplewood, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y. Electromagnetic timepiece with oil shield. 2,531,966, Nov. 28.

Bergemann, Arnold H., North Mankato, Minn. Latching relay. 2,531,838, Nov. 28.

Berman, Frank, Brooklyn, N. Y. Strainer. 2,532,052, Nov. 28.

Berman, Gustave S., New York, N. Y. Sheet folding machine. 2,531,386, Nov. 28.

Berry, Clyde F., Manchester, N. H. Engine valve mechanism-transmission actuated retarding and accelerating linkage. 2,531,904, Nov. 28.

Berthel, Gust A., Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Thermal time lag fuse. 2,532,081, Nov. 28.

Beryllium Corporation, The, assignee: *See*—
Kawecki, Henry C., and Simons.

Best, Carl L., Cleveland, Ohio. Portable self-feed drill. 2,531,604, Nov. 28.

Bettini, Lorenzo, Rome, Italy. Automatic apparatus for drying noodles and similar dough products by means of a cycle comprising progressive recovery and rest phases. 2,531,870, Nov. 28.

Blasell, La Verne R., Detroit, Mich. Accessory for converting a vehicle seat into a play pen or child's bed. 2,532,007, Nov. 28.

Bickel, Joseph W., Sandusky, Ohio. Cardcase for meter readers. 2,532,053, Nov. 28.

Bide, Austin E.: *See*—
Jones, Ewart R. H., Bide, and Nicholls.

Bierce, Burton B., Pewaukee, assignor of one-half to E. A. Andrus, Milwaukee, Wis. Electrical outlet. 2,532,219, Nov. 28.

Biginelli, Alexandro G. B.: *See*—
Biginelli, Oreste F. A., P. A. Maggiorino, and A. G. B. Andrea.

Biginelli, Oreste F. A., P. A. M., and A. G. B. A., Clermont-Ferrand, France. Punching and drawing press. 2,531,663, Nov. 28.

Biginelli, Pietro A. M.: *See*—
Biginelli, Oreste F. A., P. A. Maggiorino, and A. G. B. Andrea.

Bilodeau, Joseph J., West Springfield, Mass. Magazine loader. 2,531,387, Nov. 28.

Binus, David J., Louisville, Ky., and J. A. Maurer, assignors to The Weber Dental Manufacturing Company, Canton, Ohio. Controller for dental engines and the like. 2,531,764, Nov. 28.

Birtman Electric Company, assignee: *See*—
Sparklin, Charles H., and Sporney.

Bishop, William H., Birmingham, England. Molding for vehicle bodies. 2,531,967, Nov. 28.

Black, John W., Crittenden County, Ark. Soil testing apparatus. 2,531,388, Nov. 28.

Blake, Edward S., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Lubricating oil composition. 2,531,801, Nov. 28.

Blaw-Knox Company, assignee: *See*—
Barnebey, Herbert L.

Blumlein, Alan D., deceased, Ealing, London, England, by D. Walker, executrix, Lanherne, Lescudjack, Pezance, Cornwall, assignor to Electric & Musical Industries Limited, Hayes, England. Electrical bridge arrangement. 2,532,142, Nov. 28.

Bogese, Stephen B.: *See*—
Southern, John A., and Bogese.

Bolley, Don S.: *See*—
Carter, Lawrence W., Hendricks, and Bolley.

Bolt, Jay A., South Bend, Ind., and F. P. Jackson, Dayton, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind. Rotary fuel metering pump and emergency means insuring fuel feed upon pump failure. 2,531,664, Nov. 28.

Bonafide Mills, Inc., assignee: *See*—
Rowe, William.

Bond, Raymond W.: *See*—
Carlson, Charles L., and Bond.

Booth, Stanley, Dedham, assignor to Expanded Rubber Company Limited, Croydon, England. Manufacture of expanded thermoplastic materials. 2,531,665, Nov. 28.

Borg, Oscar F., Portland, Oreg. Garden shears. 2,532,220, Nov. 28.

Borrowdale, Russell W., assignee: *See*—
Sutphen, Harry D.

Borst, Frank C., Oroville, Wash. Stirrup swivel attachment. 2,532,082, Nov. 28.

Boston Marine Works, Inc., assignee: *See*—
Chase, Curtis D.

Bouchard, Gaston R., Saint Germain en Laye, France. Device for converting motion. 2,532,254, Nov. 28.

Bower, Howard S., assignor to Bendix Aviation Corporation, South Bend, Ind. Nozzle. 2,531,666, Nov. 28.

Boyd, John C., Riverside, Calif. Sailing and steering rig for attachment to flat bottom rubber boats or rafts. 2,531,549, Nov. 28.

Boyer, Robert Q., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Filter and valve mechanism. 2,531,802, Nov. 28.

Bradley, George T., Miami, and E. E. Brown, Kandall, Fla. Gun case. 2,531,550, Nov. 28.

Bradley, William E., Swarthmore, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Pulse modulated echo ranging system. 2,532,221, Nov. 28.

Brandt, Kristian H., Red Bank, N. J. Making capacitors. 2,531,389, Nov. 28.

Brannon, Leila, executrix: *See*—
Brannon, Loyd W.

Brannon, Loyd W., deceased, by Leila Brannon, executrix, Norfolk, Va., dedicated to the free use of the People in the territory of the United States. Insecticide comprising rotenone and piperonyl cyclonene as a synergist therefor. 2,531,390, Nov. 28.

Braunberger, Ray A., Chicago, Ill. Fifth wheel. 2,531,871, Nov. 28.

Bray, Frederick H., E. F. Bates, and J. C. Doughty, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Fire alarm system. 2,531,391, Nov. 28.

Breaux, Neil T., assignee: *See*—
Stivey, William F.

Brecht, Rudolph W., and E. H. Meyer, Brainerd, Minn. Minnow holder. 2,531,551, Nov. 28.

Breed, Theodore R., assignee: *See*—
Schumacher, Edwin A.

Breisch, Edgar W., Edgewood, R. G. Reed, Swissvale, and L. R. Golladay, Forest Hills, assignors to The Union Switch and Signal Company, Swissvale, Pa. Wayside station line coupling means for train communication systems. 2,531,498, Nov. 28.

Brelt, Robert J., San Antonio, Tex., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Accumulator. 2,532,143, Nov. 28.

Brenner, Arthur B., Newark, N. J. Shipping case. 2,532,083, Nov. 28.

Brent, Bernard J., Montclair, N. J. Method of and apparatus for administering repeated injections. 2,531,667, Nov. 28.

Breslow, David S., assignor to Hercules Powder Company, Wilmington, Del. Polyurethan coating compositions. 2,531,392, Nov. 28.

Brickman, Alan E., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Transload device. 2,531,552, Nov. 28.

Briggs, Henry A., Spokane, Wash. Hoist. 2,531,668, Nov. 28.

Britton, Edgar C., and H. R. Slagh, assignors to The Dow Chemical Company, Midland, Mich. Aryl esters of 4-chlorobenzene sulfonic acid. 2,532,222, Nov. 28.

Brock, Emral, Springfield, Mo. Drain attachment. 2,531,721, Nov. 28.

Broders, Claude E.: *See*—
Treglown, George, and Broders.

Brodie, Ralph N., Company, assignee: *See*—
Berck, William F.

Bromley, William H., Jr., Agawam, assignor to Shawinigan Resins Corporation, Springfield, Mass. Vinyl resin dispersion. 2,532,223, Nov. 28.

Brotheridge, John: *See*—
Prince, Earl S., and Brotheridge.

Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Billfold construction permitting releasable combination therewith of a multiple pass case or the like. 2,531,605, Nov. 28.

Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Side and top opening pocket case adapted to receive a memorandum pad. 2,531,606, Nov. 28.

Broussard, Harvey H., heir: *See*—
Broussard, Rene J., and Tilly.

Broussard, Lelia G., heir: *See*—
Broussard, Rene J., and Tilly.

Broussard, Nat, heir: *See*—
Broussard, Rene J., and Tilly.

Broussard, Rene, sole heir: *See*—
Broussard, Rene J., and Tilly.

Broussard, Rene J., deceased, New Iberia, and J. G. Tilly, Opelousas, La., L. G., H. J., N., and R. Broussard, sole heirs of said R. J. Broussard; said L. G. Broussard, natural tutrix of said N. and R. Broussard, minors. Air and water spray for dental engines. 2,532,054, Nov. 28.

Brown & Bigelow, assignee: *See*—
Thull, John F.

Brown, Dayton R. E., Washington, D. C. Light and sun position calculator. 2,531,932, Nov. 28.

Brown, Emanuel E.: *See*—
Bradley, George T., and Brown.

Brown, Gregory, Bridgeport, Conn. Insecticide bomb. 2,532,144, Nov. 28.

Brown, Lemual G., Oklahoma City, Okla. Slat operating mechanism. 2,531,499, Nov. 28.

Brubeck, Edwin D., Indianapolis, Ind. Reversible ratchet screw driver. 2,531,722, Nov. 28.

Bruce, William F., Upper Darby, assignor to Wyeth Incorporated, Philadelphia, Pa. Pyridone derivatives. 2,532,055, Nov. 28.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Hedenskoog, Ernest.

Bryant, Austin U., Berkeley, assignor to Grove Regulator Company, Oakland, Calif. Compartment tester. 2,531,607, Nov. 28.

Buc, Saul R.: *See*—
Randall, David L., and Buc.

Buckmeyer, Charles E.: *See*—
Mapson, Donald L., and Buckmeyer.

Bugbee, Charles W.: *See*—
Stephenson, Thomas W., and Bugbee.

Bula, Frank J., Speedway City, Ind. Bombing game. 2,531,608, Nov. 28.

Bulgin, Douglas, Erdington, Birmingham, assignor to Dunlop Rubber Company Limited, London, England. Electrical apparatus for measuring electrostatic voltages. 2,531,609, Nov. 28.

Burasco, Henry J., Kansas City, Mo. Vending machine. 2,532,084, Nov. 28.

Burke, George F. C.: *See*—
Cummings, Roy W., and Burke.

Burke, Walter A.: *See*—
Van Dusen, Frederick J., and Burke.

Burnett, Richard T., assignor to Bendix Aviation Corporation, South Bend, Ind. Accumulator valve. 2,531,669, Nov. 28.

Burnight, T. Robert, Washington, D. C., and J. F. Clark, Jr., United States Navy. Electronic coordinating system. 2,531,393, Nov. 28.

Burns, Edgar F., V. R. Woodruff, and A. R. Leonard, Jr., Spokane, Wash. Attachment for fur sewing machines. 2,531,766, Nov. 28.

Burns, Jabez & Sons, Inc., assignee: *See*—
Willenborg, Walter J.

Burress, Marshall, Moses Lake, Wash. Portable oil draining device. 2,531,765, Nov. 28.

Buttress & McClellan Inc., assignee: *See*—
McClellan, James E., and MacDonald.

Butzman, Lester E., Sr., Rocky River, Ohio. Clutch and brake mechanism for fishing reels. 2,531,610, Nov. 28.

Buxton, Incorporated, assignee: *See*—
Broughton, Douglas J.

Byck, Jacques, New York, N. Y. Ornamental box. 2,531,968, Nov. 28.

Byram, Frederick C., assignor to Robbins & Myers, Inc., Springfield, Ohio. Pump. 2,532,145, Nov. 28.

C. U. R. A. Patents Limited, assignee: *See*—
Pirani, Marcello, and Hilliard.

Cadet Smokestands Company, assignee: *See*—
Dick, Marion T.

Cahenzli, Martin T., Jr., assignor to The Harry Alter Company, Chicago, Ill. Strainer for coffee makers and making same. 2,532,146, Nov. 28.

Cain, Elmer B., Collingswood, N. J., assignor to Radio Corporation of America. Escutcheon and escutcheon fastening means. 2,531,670, Nov. 28.

Caldwell, Roy, Clearfield, Pa. Marking gauge. 2,531,803, Nov. 28.

Cameron Iron Works, Inc., assignee: *See*—
Allen, Herbert, and Works.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,147, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,148, Nov. 28.

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Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,237, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,238, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,239, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,240, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,241, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,242, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,243, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,244, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,245, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,246, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,247, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,248, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,249, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,250, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,251, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,252, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,253, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,254, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,255, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,256, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,257, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,258, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,259, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,260, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,261, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,262, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,263, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,264, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,265, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,266, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,267, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,268, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,269, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,270, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,271, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,272, Nov. 28.

Campbell, Alexander, Jr., Pittsburgh, Pa. Method of and apparatus for producing a fibrous product. 2,532,273, Nov. 28.

Campbell, Alexander,

Camp, William M., Glen Ridge, N. J., assignor to The Clark Thread Company, Inc. Stocking and sewing same. 2,531,839, Nov. 28.

Campbell, Clair E., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Apparatus for manufacture of precision glass tubing. 2,531,394, Nov. 28.

Canfield, Harry R., Cleveland Heights, assignor to L. A. Trofimov, Willoughby, Ohio. Speed responsive device. 2,531,611, Nov. 28.

Canney, Charles G., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Upsetting-die lubricant for application to bolt stock or the like. 2,531,553, Nov. 28.

Carborundum Company, The, assignee: *See*—
Upper, Frederick A., and Baumgartner.

Carlin, Jack R., Watertown, and E. T. Clarke, Cambridge, assignors to Tracerlab, Inc., Boston, Mass. Measurement of the intensity of penetrative radiations. 2,531,804, Nov. 28.

Carlson, Charles L., and R. W. Bond, Fort Wayne, Ind., assignors to International Harvester Company. Package delivery type motor vehicle. 2,532,057, Nov. 28.

Carlson, Iver H., Portsmouth, N. H. Round nut feeding fixture. 2,531,395, Nov. 28.

Carlson, Louis C., South Ozone Park, N. Y. Adapter. 2,531,840, Nov. 28.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Baeyertz, Mary, and Lindsey.
Gott, Edwin H.
Hibbert, Edward N.

Carnell, Paul H., Alma, Mich., assignor to Phillips Petroleum Company. Improving lubricating oils by treating with hydrofluoric acid and silver fluoride. 2,531,723, Nov. 28.

Carpenter, Glenn W., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Rotary solenoid. 2,531,905, Nov. 28.

Carrigan, Tracy, Lansing, Mich., assignor to Food Machinery and Chemical Corporation. Dynamic balance tester. 2,532,056, Nov. 28.

Carter, Lawrence W., New York, J. G. Hendricks and D. S. Bolley, Brooklyn, assignors to National Lead Company, New York, N. Y. Elastomer reinforced with a modified clay. 2,531,396, Nov. 28.

Carter, Norman, Desborough, near Kettering, England. Ventilated cardboard carton. 2,532,085, Nov. 28.

Case, J. I., Company, assignee: *See*—
Hansen, Charles W., and Kranick.
Kranick, Frank N. G.

Cashin, Frank J., Hanover, Pa., assignor by mesne assignments, to De Florez Engineering Company, Incorporated. Disk blade for trimming book blocks. 2,531,841, Nov. 28.

Catalyst Research Corporation, assignee: *See*—
Bennett, Owen G.

Caterpillar Tractor Co., assignee: *See*—
Gustafson, Carl A.

Caton, Milton W., East Detroit, Mich., assignor to Champion Spark Plug Company, Toledo, Ohio. Sagger and batch for making the same. 2,531,397, Nov. 28.

Cauwenberg, Winfred J.: *See*—
Todd, Seldon P., Myers, and Cauwenberg.

Cawein, Madison, and J. D. Schantz, Fort Wayne, Ind., assignors, by mesne assignments, to Farnsworth Research Corporation. Interference transmission system. 2,531,398, Nov. 28.

Cawein, Madison, and H. W. G. Salinger, Fort Wayne, Ind., assignors by mesne assignments, to Farnsworth Research Corporation. Television projection system and viewing screen. 2,531,399, Nov. 28.

Celanese Corporation of America, assignee: *See*—
Jackson, Thomas.
Smith, Harry E.

Cevasco, Edmund D., Akron, Ohio. Infant bath mat. 2,531,724, Nov. 28.

Chain Belt Company, assignee: *See*—
Smith, Horace L., Jr.

Chambers Corporation, assignee: *See*—
Phares, Thomas E.

Champion Spark Plug Company, assignee: *See*—
Caton, Milton W.

Chapman, James F., Upper Darby, and E. Latshaw, assignors to ACF-Brill Motors Company, Philadelphia, Pa. Brake drum with noise silencer. 2,532,086, Nov. 28.

Chartier, Louis O., Schnectady, N. Y. Window. 2,531,969, Nov. 28.

Chase, Curtis D., Brighton, assignor to Boston Marine Works, Inc., East Boston, Mass. Method of and apparatus for compressing vapors. 2,532,267, Nov. 28.

Chen, Henry, Kowloon, Hong Kong. Pyrophoric lighter. 2,531,554, Nov. 28.

Chenicek, Joseph A., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Desulfurization of hydrocarbons. 2,531,767, Nov. 28.

Chicago Bridge & Iron Company, assignee: *See*—
Goldsby, Fred L., and Orr.

Chicago Metallic Manufacturing Company, assignee: *See*—
Langel, Adrien L.

Chickering, Earnest E., Belding, Mich. Harvester for onions and the like. 2,531,379, Nov. 28.

Christian, Schuyler M., Decatur, Ga., assignor to Radio Corporation of America. Friction measuring device. 2,531,906, Nov. 28.

Christiansen, Shirley R., St. Cloud, Minn. Lawn edging spade attachment. 2,532,147, Nov. 28.

Christmann, William F., assignor to Kroeschell Engineering Co., Chicago, Ill. Air-conditioned elevator. 2,532,268, Nov. 28.

Christopher, Terence R., London, England. Threading toolholder with adjustable limit stop. 2,532,148, Nov. 28.

Chrysler Corporation, assignee: *See*—
Janeway, Robert N.

Church, J. Frank, Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater process. 2,531,725, Nov. 28.

Clark, Arthur E., Ferndale, Mich. Drill and reamer holder. 2,532,058, Nov. 28.

Clark, Carmelita M., assignee: *See*—
Clark, Edward J.

Clark, Edward J., assignor to Carmelita M. Clark, Los Angeles, Calif. Zipper actuating device for hookless fasteners. 2,531,805, Nov. 28.

Clark, John F., Jr.: *See*—
Burnight, T. Robert, and Clark.

Clark, Richard A., Barberton, Ohio. Spring mounting for children's wagons or the like. 2,531,933, Nov. 28.

Clark Thread Company, Inc., The, assignee: *See*—
Camp, William M.

Clarke, Eric T.: *See*—
Carlin, Jack R., and Clarke.

Clarkson, Clarence W., Jr., Corning, N. Y. Gunnery practice range control device. 2,531,400, Nov. 28.

Claussner, Robert E., Paducah, Ky., assignor to Union Special Machine Company, Chicago, Ill. Manufacturing hosiery. 2,532,008, Nov. 28.

Clay, Murray G., River Forest, Ill. Cooking. 2,532,009, Nov. 28.

Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Solenoid unit. 2,531,500, Nov. 28.

Clerke, John W., Little Falls, N. J. Pipe coupling. 2,531,401, Nov. 28.

Cline, Kenneth W., and D. F. Rinehart, Magnolia, Ohio. Tractor drawbar. 2,531,768, Nov. 28.

Cline, Paul T., St. Petersburg, Fla. Portable shelter. 2,531,501, Nov. 28.

Clutsom, Charles, Ashby-de-la-Zouch, England. Loom with stationary weft supply. 2,532,087, Nov. 28.

Cole, John W.: *See*—
Julian, Percy L., Cole, Meyer, and Magnani.

Collins, Henry M., Vaughan Township, and C. D. Wright, assignors to Reliable Plastics Company, Limited, Toronto, Ontario, Canada. Apparatus for combining finely divided substances. 2,532,224, Nov. 28.

Collins Radio Company, assignee: *See*—
Doelz, Melvin L.

Columbia Enterprises, assignee: *See*—
Powell, Herman.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Frangquist, Gustav H.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Griffin, Joseph F., and Skoog.
Nehrbas, Howard C.

Compagnie Generale D'Electricite, assignee: *See*—
Domenach, Louis, and Macardier.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Doehler, Oskar, Kleen, and Huber.

Cone, Loris E., Pullman, Wash. Tire chain installer and car mover. 2,532,149, Nov. 28.

Consolidated Engineering Corporation, assignee: *See*—
Hunter, James B., Taylor, and Young.

Continental Can Company, Inc., assignee: *See*—
Hermani, Louis
Hook, George C.

Continental, Incorporated, assignee: *See*—
Fulton, Robert E., Jr.

Cooper, Alfred B., assignee: *See*—
Willis, Elijah J.

Cooper, Cedric L., and L. J. Ellison, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Manufacture of dry rectifiers. 2,531,402, Nov. 28.

Cordis, Nat, Silver Lake, Wis. Cleansing apparatus. 2,532,088, Nov. 28.

Cotabish, Harry N.: *See*—
Yant, William P., and Cotabish.

Coughlin, Earl A., Detroit, Mich. Fish tackle float. 2,531,806, Nov. 28.

Couperus, Pierce G.: *See*—
Smith, Frederick H., and Couperus.

Courvoisier, Frédéric, Zurich, Switzerland. Determination of moisture contents. 2,532,010, Nov. 28.

Cousineau, John B.: *See*—
Hise, Herbert, and Cousineau.

Crain, Tom, assignee: *See*—
Adams, Mozel A.

Crandall Dry Dock Engineers Inc., assignee: *See*—
Ducharme, Jean M.

Crell, Willy F., Cleveland, Ohio. Air-heating furnace for alternative forced and convection air flows. 2,532,089, Nov. 28.

Crochet, Pierre, and R. E. Lambert, assignors to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Melting glass by electricity. 2,531,612, Nov. 28.

Crook, William M.: *See*—
Wolf, Andrew J., Moller, and Crook.

Crose, Harvey L., Tulare, Calif. Side delivery rake mounting. 2,531,934, Nov. 28.

Crouch, Willie W., and L. D. Jurrens, Bartlesville, Okla., assignors to Phillips Petroleum Company. Coagulating a latex of a sulfur dioxide resin. 2,531,403, Nov. 28.

Crumrine, Chester W., Rochester, assignor to International Business Machines Corporations, New York, N. Y. Ribbon feeding and reversing mechanism for typewriting machines. 2,531,872, Nov. 28.

Crystal-Flo Products Company, assignee: *See*—
Thompson, Parke H.

Cummings, Roy W., Beverly, and G. F. C. Burke, Fairhaven, Mass., assignors to United States Shoe Machinery Corporation, Flemington, N. J. Article-forming system. 2,531,555, Nov. 28.

Cuno Engineering Corporation, The, assignee: *See*—
Ashton, Philip E.

Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Biguanide compounds. 2,531,404, Nov. 28.

Curd, Francis H. S., deceased, Blackley, Manchester, England, by M. R. Curd, executrix, Bramhall, and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Biguanide derivatives. 2,531,405, Nov. 28.

Curd, Muriel R., executrix: *See*—
Curd, Francis H. S., and Rose.

Dahl, Ralph T., Portland, Oreg. Liner for mess kit covers. 2,531,671, Nov. 28.

Dahlquist, Carl A., St. Paul, J. O. Hendricks, White Bear Lake, and W. E. Sohl, Birchwood, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Liners and adhesive tapes having low adhesion polyvinyl carbamate coatings. 2,532,011, Nov. 28.

Dairy Specialties, Inc., assignee: *See*—
Jones, John P.

D'Alelio, Gaetano F., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. N, N-dimethyl acetamide-containing compositions. 2,531,406, Nov. 28.

D'Alelio, Gaetano F., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. N, N-dimethyl acetamide-containing compositions. 2,531,407, Nov. 28.

D'Alelio, Gaetano F., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Interpolymers of acrylonitrile and itaconic acid. 2,531,408, Nov. 28.

D'Alelio, Gaetano F., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Interpolymers of acrylonitrile and fumarodinitrile. 2,531,409, Nov. 28.

D'Alelio, Gaetano F., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Polymeric compositions. 2,531,410, Nov. 28.

Daly, George F., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,531,873, Nov. 28.

Darrell, George H., Stonington, Conn. Target-throwing machine. 2,531,613, Nov. 28.

Dasher, Don E., Birmingham, Mich. Air conditioning system. 2,532,012, Nov. 28.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Buffer. 2,532,013, Nov. 28.

Daubenmeyer, Lewis E., Dearborn, Mich. Pressure fluid servomotor. 2,531,907, Nov. 28.

Davenport, Charles C., Swarthmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas turbine lubrication. 2,531,411, Nov. 28.

Davis, Edgar B., Tangerine, Fla. Alarm for strongboxes. 2,531,842, Nov. 28.

Davis, Edward M., Brooklyn, N. Y. Hanger device. 2,532,255, Nov. 28.

Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Measuring valve. 2,532,269, Nov. 28.

Davis, Harry A., New Brighton, Pa., and G. W. Ruhl, East Liverpool, Ohio, assignors to Treadwell Construction Company, Midland, Pa. Stopper rig for ladles. 2,531,556, Nov. 28.

Davis, Robert L., assignor to American Seating Company, Grand Rapids, Mich. Apparatus for heating canned foods. 2,532,014, Nov. 28.

Daye, Marvin H., Henderson, Tex. Pump plunger packing. 2,531,672, Nov. 28.

Dayton, Grant H., Kingsburg, Calif. Rotary power cultivator. 2,531,557, Nov. 28.

Deal, Carl H., Jr.: *See*—
Nixon, Alan C., Deal, and Evans.

Deal, Brastus C., Rye, assignor to Deal Slide-Lock Devices, Inc., New York, N. Y. Brake with drive release. 2,531,970, Nov. 28.

Deal, Louis L., Rye, assignor to Deal Slide-Lock Devices Inc., New York, N. Y. Adjustable locking device. 2,531,971, Nov. 28.

Deal Slide-Lock Devices, Inc., assignee: *See*—
Deal, Erastus C.
Deal, Louis L.

Dean, Kenneth W., H. S. Beattie, and R. E. Page, Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Sorting apparatus. 2,531,874, Nov. 28.

De Boer, Kornelis, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Stereophonic sound recording system. 2,532,150, Nov. 28.

Debrie, André V. L. C., Paris, France. Gravity-operated friction means. 2,531,558, Nov. 28.

Decca Record Company Limited, The, assignee: *See*—
Grenfell, Alexis R.
O'Brien, William J.

Dee, Audrey M., Hollywood, Calif. Shoulder pad. 2,532,059, Nov. 28.

De Florez Engineering Company, Incorporated, assignee: *See*—
Cashin, Frank J.

De Frees, Edwin H., assignee: *See*—
Holcomb, Normand P., and Rothwell.

De Hart, Edward S.: *See*—
Errig, William F., and De Hart.

De Groote, Melvin, University City, and O. H. Pettingill, Kirkwood, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Oxyalkylated drastically-oxidized cashew nutshell liquid, and making same. 2,531,502, Nov. 28.

De Lay, Earl, Columbia, S. C. Tiltable wheeled handcart. 2,532,015, Nov. 28.

Deloraine, Edmond M., assignor to Federal Telephone and Radio Corporation, New York, N. Y. System for determining distance and direction by electromagnetic wave energy. 2,531,412, Nov. 28.

De Pangher, John, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Magnetic measuring apparatus and method. 2,531,807, Nov. 28.

De Pew, Chester C., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Variable output linkage with multiple controlled elements. 2,531,614, Nov. 28.

Desrochers, Fernand, assignor to Dominion Corset Company Limited, Quebec, Quebec, Canada. Girdle. 2,531,769, Nov. 28.

Devilev, Milton H., Oneida, Wis. Hitch. 2,531,559, Nov. 28.

De Wall, Otto J., Titonka, Iowa. Buncher for baled hay. 2,531,560, Nov. 28.

Dexter, Stephen T., assignor to The State Board of Agriculture, East Lansing, Mich. Apparatus for determining the moisture content of vegetable products. 2,531,673, Nov. 28.

Dibert, George F., and E. C. Holst, Spokane, Wash. Steering mechanism for trailers. 2,532,151, Nov. 28.

Dick, Marion T., assignor to Cadet Smokestands Company, Des Moines, Iowa. Trap door hopper top. 2,531,503, Nov. 28.

Dicke, Robert H., Princeton, N. J. Electrostatic vibration detector. 2,532,060, Nov. 28.

Dillehay, Edward R., Glen Ellyn, and R. D. Schuetz, Chicago, Ill., assignors to The Richardson Company, Lockland, Ohio. Separator for electric storage batteries. 2,531,504, Nov. 28.

Dionne, John C., Chicago, Ill. Method and apparatus for detecting flaws. 2,531,413, Nov. 28.

Dodge, Ronald D., and J. L. Petz, Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Tape feeding mechanism for typewriting machines. 2,531,875, Nov. 28.

Doehler, Oskar, W. Kleen, and H. Huber, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Ultra short wave transmitting tube. 2,531,972, Nov. 28.

Doelz, Melvin L., Minneapolis, Minn., assignor to Collins Radio Company, Cedar Rapids, Iowa. Level-stabilized modulated carrier amplifier. 2,531,935, Nov. 28.

Domenach, Louis, and L. Macardier, Lyons, assignors to Compagnie Generale D'Electricite, Paris, France. Thin paper insulated electric cable. 2,532,152, Nov. 28.

Dominion Corset Company Limited, assignee: *See*—
Desrochers, Fernand.

Doriot, Kenneth E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Noise suppression means for communication receiving apparatus. 2,531,505, Nov. 28.

Doumitt, Philip S., Portland, Oreg. Punchboard. 2,531,674, Nov. 28.

Dow Chemical Company, The, assignee: *See*—
Britton, Edgar C., and Slagh.
Johnson, Julius E., and Mussell.
Serdynsky, Eugene D.

Drescher, Rowland B., and A. C. Wenzel, assignors to Republic Flow Meters Company, Chicago, Ill. Control apparatus. 2,532,153, Nov. 28.

Drying & Concentrating Company, assignee: *See*—
Hall, Joseph M.

Dubilier, William, New Rochelle, N. Y. Electrical liquid treating device. 2,532,016, Nov. 28.

Dubuc, Jerome J., Burlington, Vt. Refrigerator for automobiles and motor boats. 2,532,090, Nov. 28.

Ducharme, Jean M., East Walpole, assignor to Crandall Dry Dock Engineers Inc., Cambridge, Mass. Multiple-roller bearing unit. 2,531,770, Nov. 28.

Dudderar, T. Dixon, administrator: *See*—
Rowen, John W., and Phillips.

Duncan Electric Manufacturing Company, assignee: *See*—
Road, Richard A.

Dunlop Rubber Company Limited, assignee: *See*—
Bulgin, Douglas.

Duplex Walls, Inc., assignee: *See*—
Shuter, Edwin.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Stanton, William A.
Walker, Joseph F., and Mooney.

Durdin, Augustus C., III, assignor to Geo. D. Roper Corportion, Rockford, Ill. Positive displacement rotary pump. 2,531,726, Nov. 28.

Durey, Clarence M., University Heights, and F. Maynard, Cleveland, Ohio. Stiffening for garments. 2,531,843, Nov. 28.

Duskin, Morris L., Evanston, Ill. Luggage cover. 2,532,154, Nov. 28.

Doughty, John C.: *See*—
Bray, Frederick H., Bates, and Doughty.

EGA Electric Limited, assignee: *See*—
Kilminster, George.

Eames, Walter R., Warren Township, Macomb County, Mich., assignors to Eaton Manufacturing Company, Cleveland, Ohio. Pump. 2,531,808, Nov. 28.

Eastman Kodak Company, assignee: *See*—
Reynolds, Delbert D., and Kenyon.

Eaton Manufacturing Company, assignee: *See*—
Barkan, Louis R., and Anderson.
Eames, Walter R.

Ebert Engineering and Manufacturing Company, assignee: *See*—
McKinney, Norman.

Ebert, Joseph F., assignee: *See*—
McKinney, Norman.

Economy Pumps, Inc., assignee: *See*—
Thomas, Richard H.

Edwards, Harry D., and J. D. Kendall, assignors to Ilford Limited, Ilford, England. Dyestuffs containing two heterocyclic nitrogen nuclei and an alkyl mercapto methinyl linking radical and their preparation. 2,531,973, Nov. 28.

Ekco Products Company, assignee: *See*—
Zimmet, Myron J.

Elder, Flint C., and W. H. Johns, Cleveland Heights, Ohio, assignors to The American Steel and Wire Company of New Jersey. Apparatus for continuously coating wire. 2,531,561, Nov. 28.

Electric & Musical Industries Limited, assignee: *See*—
Blumlein, Alan D.

Electric Resistance Furnace Company Limited, assignee: *See*—
Millar, William J.

Electro Voice, Incorporated, assignee: *See*—
Lewis, Fred S.

Ellett, Alexander, River Forest, Ill., assignor to Zenith Radio Corporation. Subscription type television transmitter. 2,531,974, Nov. 28.

Ellinger, Flora H., Chicago, Ill. Trigger actuated portable spray head. 2,532,270, Nov. 28.

Ellison, Leslie J.: *See*—
Cooper, Cedric L., and Ellison.

Elmendorf, Armin, Winnetka, Ill. Panel for sidings and roofs. 2,532,017, Nov. 28.

Emerson, John F., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Frequency voltage regulator. 2,531,727, Nov. 28.

Engler, William B., Green Springs, Ohio. Clutch mechanism. 2,531,771, Nov. 28.

Engvall, Lenard R., Coulee Dam, Wash. Electrical pressure measuring device. 2,531,414, Nov. 28.

Ensign, Elbert E., Ypsilanti, assignor to Ford Motor Company, Dearborn, Mich. Thixotropic investment material. 2,532,155, Nov. 28.

Enterprise Railway Equipment Company, assignee: *See*—
Zimmer, Albert E.

Errig, William F., Jenkintown, Pa., and E. S. De Hart, Collingswood, N. J., assignors, by mesne assignments, to said Errig. Tire groover. 2,532,156, Nov. 28.

Erteszek, Olga, Los Angeles, Calif. Panty girdle. 2,531,772, Nov. 28.

Erwin, Edson L., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,531,615, Nov. 28.

Escoffery, Charles A., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Rectifier. 2,531,415, Nov. 28.

Essex, Jesse L., San Antonio, Tex., and J. R. Appleton, Los Angeles, Calif. Method and apparatus for expanding minerals. 2,531,975, Nov. 28.

Evans, H. C. & Company, assignee: *See*—
Andres, Lloyd J.

Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Variable reactive microwave device. 2,532,157, Nov. 28.

Evans, Roy J.: *See*—
Nixon, Alan C., Deal, and Evans.

Eve, Philip H., Fort Worth, Tex. Floating support for growing plants. 2,531,562, Nov. 28.

Everett, Samuel J., Thornton Heath, England. Thermoplastic tube forming apparatus. 2,532,091, Nov. 28.

Ewing, Douglas H., Chevy Chase, Md., assignor to Radio Corporation of America. Data translation device for flight simulation. 2,532,158, Nov. 28.

Expanded Rubber Company Limited, assignee: *See*—
Booth, Stanley.

Fairbank, Murray N., Belmont, and S. B. Whittier, assignors to Polaroid Corporation, Cambridge, Mass. Camera shutter mechanism. 2,531,936, Nov. 28.

Fairchild Engine and Airplane Corporation, assignee: *See*—
De Pew, Chester C.

Farnsworth Research Corporation, assignee: *See*—
Campbell, Clair E.
Cawein, Madison, and Salinger.
Cawein, Madison, and Schantz.
Hallmark, Clyde E.
Schriefer, Robert G.

Fast, John E., & Company, assignee: *See*—
Kaim, Simon.

Faust, Ellwood L.: *See*—
Raney, Russel R., and Faust.

Federal Electric Products Company, assignee: *See*—
Jensen, Helge.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Himmel, Leon.

Federal Telephone and Radio Corporation, assignee: *See*—
Deloraine, Edmond M.
Escoffery, Charles A.
Ferrar, Robert C.
Hoffman, Ross B., and Ferrar.
Marchand, Nathan.
Reade, Ralph B.
Salazar, Alfred M.

Feldheim, Einar F., Grandy, Minn. Level holder. 2,531,583, Nov. 28.

Ferrar, Robert C., New Providence, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Control circuit for radio receivers. 2,531,416, Nov. 28.

Fibreboard Products Inc., assignee: *See*—
Goodyear, Charles H.

Fiedler, Georg, Erlangen, Germany. Instrument for measuring compressional wave radiation pressure. 2,531,844, Nov. 28.

Field, Philip G.: *See*—
Golub, Samuel G., and Field.

Field, Roy E., Fullerton, Calif. Vehicle steering wheel locking device. 2,531,675, Nov. 28.

Finch, William G. H., Newtown, Conn., assignor, by mesne assignments, to Pierce Company, Providence, R. I. Compact facsimile recorder and synchronizer. 2,532,271, Nov. 28.

Fischer, Friedrich E., Zurich, Switzerland. Foil measuring system with magnetic brake. 2,531,417, Nov. 28.

Fish, John R., Sprinfield, Mass. Center. 2,531,809, Nov. 28.

Fish Machinery Corporation, assignee: *See*—
Savrda, Charles M.

Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Record contolled actuating mechanism fo embossing machines. 2,531,876, Nov. 28.

Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Carriage return mechanism for record controlled embossing machines. 2,531,877, Nov. 28.

Fitzharris, Edward, Hollywood, Calif. Jet casting arrow. 2,531,418, Nov. 28.

Fletcher, William A.: *See*—
Nichols, Charles A., Todd, and Fletcher, and Keller.

Floeter, Frederick S., assignor to Wickes Bros., Saginaw, Mich. Multiple crankpin turning lathe. 2,531,616, Nov. 28.

Florio, Patrick A.: *See*—
Hammarén, Berndt W., Florio, and Townend.

Floyd, Don E., Robbinsdale, Minn., assignor to General Mills, Inc. Plasticized resin compositions. 2,532,018, Nov. 28.

Food Machinery and Chemical Corporation, assignee: *See*—
Carrigan, Tracy.

Ford Motor Company, assignee: *See*—
Ensign, Elbert E.
Jovanovich, Milton, and Wharam.
Pinardi, Charles P., and Poole.
Stephenson, Thomas W., and Bugbee.

Foris, Julius Z.: *See*—
Beck, George H., and Foris.

Forwald, Haakon, Valhalla, Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Arrangement in compressed air circuit breakers. 2,531,617, Nov. 28.

Fox, Arthur G., Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hybrid branching circuits. 2,531,419, Nov. 28.

Frangquist, Gustav H., Chicago, Ill., assignor to Combustion Engineering-Superheater, Inc. Roller journal for hot-gas swept bowl mills. 2,532,092, Nov. 28.

Frankenburg, Walter G., Millersville, Pa., assignor to Hydrocarbon Research, Inc., New York, N. Y. Catalytic reduction of carbon oxide by hydrogen. 2,531,420, Nov. 28.

Friedman, Harold S., Jackson Heights, assignor to Reliable Machine Works, Inc., Brooklyn, N. Y. Tumbling drum for fur softening and cleaning machines. 2,531,676, Nov. 28.

Frito Company, The, assignee: *See*—
Gunderson, Willard R.

Fulton, Robert E., Jr., assignor to Continental, Incorporated, Washington, D. C. Roadable airplane. 2,532,159, Nov. 28.

Furman, Frank J.: *See*—
Mills, Albert W., Furman, and Habenda.

Fyffe, Robert J., Perth Amboy, assignor to The M. W. Kellogg Company, Jersey City, N. J. Air inlet arrangement for combustion chamber flame tubes. 2,531,810, Nov. 28.

Gall, Bernardus O. M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Wireless receiver comprising automatic gain control. 2,531,845, Nov. 28.

Garand, John C., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Adjustable rear sight for firearms. 2,531,421, Nov. 28.

Garbe, Williard A., Oshkosh, Wis. Marble actuated rotary wheel toy. 2,531,564, Nov. 28.

Garrett, Harley A., Camden on Gauley, W. Va. Retractable lift rotor mechanism for aircraft. 2,531,976, Nov. 28.

Gates Rubber Company, The, assignee: *See*—
Nassimbene, Ernest.

Geneck, Harry, Spokane, Wash. Refrigerated display case having humidifying means. 2,531,506, Nov. 28.

General Aniline & Film Corporation, assignee: *See*—
Randall, David I., and Buc.

General Aniline & Film Corporation, assignee: *See*—
Slifkin, Sam C., and Unkauf.
Von Glahn, William H., Stanley, and Hand.

General Controls Co., assignee: *See*—
Paille, Eugene.

General Electric Company, assignee: *See*—
Lincks, George F.
Silvey, John O.
Smith, Archie E.
Zickrick, Lyall.

General Electric Company, Limited, The, assignee: *See*—
Smyth, John B. S.

General Mills, Inc., assignee: *See*—
Floyd, Don E.
Roach, John R., and Wittcoff.
Warner, Donald T., and Moe.

General Motors Corporation, assignee: *See*—
Claytor, Edward M.
Nickols, Charles A., Todd, and Fletcher and Keller.
Rossman, Edwin F.
Sheley, Wayne H.

Geoghegan, John J., assignor to Philco Corporation, Philadelphia, Pa. Making fluorescent screens, including the elimination of copper impurities. 2,531,618, Nov. 28.

Gersh, Mary D., San Francisco, Calif. Shaping tool. 2,531,728, Nov. 28.

Gerum, Max, Jamaica, N. Y. Logging hook. 2,531,422, Nov. 28.

Geuder, Paeschke & Frey Co., assignee: *See*—
Merner, John.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.

Gilliam, Nora M., La Porte, Tex. Buttonhole cutter. 2,532,160, Nov. 28.

Gingrich, Allen L., Spakane, Wash. Internal radially acting hydraulic wheel brake. 2,531,677, Nov. 28.

Glaxo Laboratories, Limited, assignee: *See*—
Heilbron, Ian M., and Jones.
Jones, Ewart R. H., Bide, and Nicholls.

Gledhill, Edward C., Galion, Ohio. Portable compartment and collapsible frame for same. 2,531,678, Nov. 28.

Glick, Murry, St. Louis, Mo. Fishing guide. 2,532,061, Nov. 28.

Glidden Company, The, assignee: *See*—
Julian, Percy L., Cole, Meyer, and Magnani.

Globe Automatic Sprinkler Company, assignee: *See*—
Rowley, Arthur C.

Glos, Raymond E., Freeport, Ill. Valve. 2,531,679, Nov. 28.

Glover, Bertram W.: *See*—
Sheppard, Edward A., and Glover.

Goldberg, Alan A., Somerset, and H. S. Turner, Manchester, assignors to Ward, Blenkinsop & Company, Limited, London, England. Bis-(carboxydiphenylamine)-sulfides and sulfones. 2,531,423, Nov. 28.

Goldberg, Herman M., assignor to Standard Refrigeration Company, Inc., Chicago, Ill. Pressure reducing device for refrigerating apparatus. 2,532,019, Nov. 28.

Goldsby, Fred L., and C. M. Orr, Chicago, Ill., assignors to Chicago Bridge and Iron Company. Seal for floating roof tanks. 2,531,424, Nov. 28.

Goldsmith, Alfred N., assignor to Radio Corporation of America, New York, N. Y. Color television system. 2,531,508, Nov. 28.

Golladay, Lawrence R.: *See*—
Brelsch, Edgar W., Reed, and Golladay.

Golub, Samuel G., and P. G. Field, New York, N. Y. Neurological hammer with brush and needle hidden in handle. 2,532,093, Nov. 28.

Gomberg, Jacob, Chicago, Ill. Wrist watch holder. 2,532,161, Nov. 28.

Gomco Surgical Manufacturing Corp., assignee, *See*—
Henderson, Stanford A.

Gonin, Harold A., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Machine for decurling labels. 2,531,619, Nov. 28.

Gonsett, Faust R. and R. R., Los Angeles, Calif. Television antenna. 2,532,094, Nov. 28.

Gonsett, Robert R.: *See*—
Gonsett, Faust R. and R. R.

Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system employing pulse code modulation. 2,531,846, Nov. 28.

Goodrich, B. F., Company, The, assignee: *See*—
Spicer, Alvin W.

Goodyear, Charles H., Stockton, assignor to Fibreboard Products Inc., San Francisco, Calif. Tray type collapsible carton. 2,531,507, Nov. 28.

Goolsbee, Charles C.: *See*—
Stockes, John C., and Goolsbee.

Goslin, Herbert G., Augusta, assignor to Sherriff-Goslin Co., Battle Creek, Mich. Roofing. 2,532,095, Nov. 28.

Goss, James W., Warren, Ohio. Object supporting means. 2,532,162, Nov. 28.

Gott, Edwin H., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Cooling box and cover therefor. 2,531,729, Nov. 28.

Gottholm, Carl G., Malden, Mass. Bridge guard. 2,531,565, Nov. 28.

Govro-Nelson Company, assignee: *See*—
Treglown, George, and Broders.

Gratiot, Harvey H., Portland, Oreg. Ornamental display device. 2,531,937, Nov. 28.

Graver Tank & Mfg. Co., Inc., assignee: *See*—
Ulm, Reign C.

Gray, G. A., Company, The, assignee: *See*—
Walter, John M.

Greenley, Thomas A.: *See*—
Kohle, Albert G., and Greenley.

Greer, Frederick W., Belmont, assignor to J. W. Greer Company, Cambridge, Mass. Method of and apparatus for conditioning chocolate and the like. 2,531,773, Nov. 28.

Greer, J. W., Company, assignee: *See*—
Greer, Frederick W.

Grenfell, Alexis R., Stanmore, assignor to The Decca Record Company, Limited, London, England. Radio navigational aid. 2,531,908, Nov. 28.

Grieg, Donald D., Forest Hills, assignor to International Standard Electric Corporation, New York, N. Y. Homing beacon reception system. 2,531,425, Nov. 28.

Griffin, Joseph F., Hammond, and R. G. Skoog, Crown Point, Ind., assignors to Combustion-Engineering Superheater, Inc. Condensate drain system for steam engines. 2,531,878, Nov. 28.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Compensating means for displacement meters. 2,531,620, Nov. 28.

Grove Regulator Company, assignee: *See*—
Bryant, Austin U.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Balance weight positioner. 2,532,225, Nov. 28.

Grundmann, Gustave L., Westmont, N. J., assignor to Radio Corporation of America. Schmidt television projection system. 2,531,509, Nov. 28.

Gunderson, Willard R., assignor to The Frito Company, Dallas, Tex. Clip. 2,532,020, Nov. 28.

Gunderson, Willard R., assignor to The Frito Company, Dallas, Tex. Support. 2,532,021, Nov. 28.

Gunderson, Willard R., assignor to The Frito Company, Dallas, Tex. Display support. 2,532,022, Nov. 28.

Gustafson, August W., Corpus Christi, Tex. Insecticide distributor. 2,531,566, Nov. 28.

Gustafson, Carl A., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Spring support for vehicle running gears. 2,531,621, Nov. 28.

Gustafson, Gösta K. G., assignor to Västra Sveriges Dentaldepot, Goteborg, Sweden. Vibrator for the fillings of tooth cavities. 2,531,680, Nov. 28.

Guth, Edwin F., Company, The, assignee: *See*—
Guth, Edwin F., Jr.

Guth, Edwin F., Jr., Ladue, assignor to The Edwin F. Guth Company, St. Louis, Mo. Luminaire for elongate tubular lamps comprising telescoped extensible sections. 2,532,023, Nov. 28.

Guthmann, Eugene Y., Philadelphia, Pa. Liquid level gauge. 2,531,774, Nov. 28.

Guyer, Brada, Denver, Colo. Pipe boring machine. 2,531,909, Nov. 28.

Haase, Heinrich E.: *See*—
Lager, Eric W., Prohaska, and Haase.

Habenda, Edward J.: *See*—
Mills, Albert W., Furman, and Habenda.

Hague, Alfred E., West Orange, N. J., and A. E. Joel, Jr., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic accounting device. 2,531,622, Nov. 28.

Hale, Douglas A. S., Verona, and R. J. Kircher, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency electronic discharge device. 2,531,623, Nov. 28.

Haley, Douglas C., Marietta, Ga. Reserve fuel supply. 2,531,847, Nov. 28.

Hall, Clyde W., Chicago, Ill., assignor, by mesne assignments, to F. H. Knowles. Vending machine. 2,532,062, Nov. 28.

Hall, Joseph M., Chicago, Ill., assignor to Drying & Concentrating Company. Gaseous current spray drier. 2,531,879, Nov. 28.

Hallmark, Clyde E., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Ultra high frequency oscillation generator. 2,531,426, Nov. 28.

Halpin, Elwood R., Rochester, N. Y. Pump combination. 2,532,163, Nov. 28.

Hammaren, Berndt W., Floral Park, N. Y., and R. V. Townend, Arlington, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Manufacture of phosphoric acid. 2,531,977, Nov. 28.

Hammarén, Berndt W., Mineola, N. Y., P. A. Florio, Wilmington, Del., and R. V. Townend, Arlington, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Conditioning clay for manufacture of aluminum sulfate. 2,531,978, Nov. 28.

Hammel, Jay E., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Coulombmeter. 2,531,811, Nov. 28.

Hand, Margaret A.: *See*—
Von Glahn, William H., Stanley, and Hand.

Hanscom, Clarence D., Denville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective signaling system. 2,531,624, Nov. 28.

Hansell, Grant E., *See*—
Atwood, John B., and Hansell.

Hansen, Charles W., and F. N. G. Kranick, assignors to J. I. Case Company, Racine, Wis. Windrower. 2,532,164, Nov. 28.

Hansen, William W.: *See*—
Johnson, Montgomery H., and Hansen.

Hartford National Bank and Trust Company, assignee: *See*—
De Boer, Kornelis.
Gall, Bernardus O. M.
Kerkhof, Frederik.
Penning, Frans M., and Moubis.
Van Overbeek, Adrianus J. W. M.

Hartley, Ralph V. L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power source. 2,532,096, Nov. 28.

Hartman, Lyle M., Ohaton, Alberta, Canada. Musical instrument. 2,532,226, Nov. 28.

Hauser, Ernst A., Cambridge, Mass. Modified gel-forming clay and producing same. 2,531,427, Nov. 28.

Hauser, Ernst A., Cambridge, Mass. Application of drilling fluids. 2,531,812, Nov. 28.

Hautzenroeder, Richard W., Mansfield, Ohio. Hydraulic power device positioning control mechanism. 2,531,428, Nov. 28.

Heacock, Woodrow A., Los Angeles, Calif. Game board and cards adapted to be utilized therewith. 2,531,510, Nov. 28.

Heath, William C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Pressure container for water softeners and the like. 2,532,227, Nov. 28.

Heberlein, Georg, Jr., legal heir and administrator: *See*—
Heberlein, Georges, and Weiss.

Heberlein, Georges, deceased, Wattwil, Switzerland, by G. Heberlein, Jr., legal heir and administrator, W. Wanne, and E. Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y. Producing transparentized and crinkled cellulosic fabrics. 2,531,813, Nov. 28.

Heberlein, Georges, deceased, Wattwil, Switzerland, by G. Heberlein, Jr., legal heir and administrator, W. Wanne and E. Weiss, Wattwil, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y. Patterned fabrics and producing same. 2,531,814, Nov. 28.

Heberlein Patent Corporation, assignee: *See*—
Heberlein, Georges, and Weiss.

Heddon's, James, Sons, assignee: *See*—
William, Walter.

Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling pin handling apparatus. 2,531,429, Nov. 28.

Heftler, Paul, Chicago, Ill. Carpet sweeper brush and wheel pressure adjusting mechanism. 2,531,430, Nov. 28.

Heilbron, Ian M., and E. R. H. Jones, London, assignors to Glaxo Laboratories Limited, Greenford, Middlesex, England. Derivatives of cyclohexene and preparing same. 2,531,567, Nov. 28.

Heindel, Herbert H.: *See*—
Holmes, Burton F., and Heindel.

Helme, Thomas, Albany, N. Y. Rattrap. 2,531,568, Nov. 28.

Henderson, Algo D., assignee: *See*—
Bean, Xarifa L.

Henderson, Stanford A., assignor to Gomco Surgical Manufacturing Corp., Buffalo, N. Y. Surgical aspirator. 2,531,730, Nov. 28.

Hendricks, James O.: *See*—
Dahlquist, Carl A., Hendricks, and Sohl.

Hendricks, John G.: *See*—
Carter, Lawrence W., Hendricks, and Bolley.

Henkel, Harvey L., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Apparatus for releasing locking mechanism of vault doors. 2,531,848, Nov. 28.

Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co. Inc., Indianapolis, Ind. Aluminum thallium bearing. 2,531,910, Nov. 28.

Herbst, Phillip J., Princeton, N. J., assignor to Radio Corporation of America. Position indicating system. 2,532,063, Nov. 28.

Hercules Powder Company, assignee: *See*—
Breslow, David S.
Rummelsburg, Alfred L.
Smith, Roscoe B.

Herman, Louis J.: *See*—
Mills, Albert M., and Herman.

Hermani, Louis, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Container for refuse. 2,532,165, Nov. 28.

Herring-Hall-Marvin Safe Company, assignee: *See*—
Henkel, Harvey L.

Herring, Wayland F., Calumet City, Ill. Adjustable typewriter support. 2,531,880, Nov. 28.

Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Decentralized line switch arrangement. 2,532,097, Nov. 28.

Hesh, Frank H., Chicago, Ill. Electrically operated typewriter. 2,532,228, Nov. 28.

Hess, Myra J., executor: *See*—
Janisch, Maximillian P.

Hibbert, Edward N., Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation. Razor blade stock. 2,531,731, Nov. 28.

Higgins, Eric B., Tewin Wood, England, assignor to Tewin Industries Inc., County of New York, N. Y. Preparation of alkali metal di-salts of 2:3 hydroxynaphthoic acid. 2,531,380, Nov. 28.

Hill, Roscoe, Hamilton, Ontario, Canada, assignor to Scott & Williams, Incorporated, Laconia, N. H. Electric stop motion for double feed mechanism on knitting machines. 2,531,681, Nov. 28.

Hill, Thomas C., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Four-way, slide, selector valve. 2,531,511, Nov. 28.

Hilliard, Alfred: *See*—
Pirani, Marcello, and Hilliard.

Hills, Claude H., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Preparing calcium firmed frozen apple slices. 2,531,431, Nov. 28.

Himmel, Leon, Montclair, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y. Broad band antenna system. 2,531,432, Nov. 28.

Hirsh, Donald H.: *See*—
Hoaglin, Raymond I., and Hirsh.

Hise, Herbert, Chicago, and J. B. Cousineau, Oak Park, Ill., said Cousineau assignor to said Hise. Multiple adjustment for stringed musical instruments. 2,531,569, Nov. 28.

Hoaglin, Raymond I., and D. H. Hirsh, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Making sorbic acid esters. 2,531,512, Nov. 28.

Hobbs, James M., West Durham, N. C. Electrical ball game apparatus. 2,531,979, Nov. 28.

Hoffman, Mabert G., Thurmont, Md. Nursing device. 2,531,570, Nov. 28.

Hoffman, Olive E., Chicago, Ill. Leg protector. 2,532,024, Nov. 28.

Hoffman, Oswald A., Decatur, Ind. Cornstalk pulverizer. 2,531,732, Nov. 28.

Hoffman, Ross B., Glen Ridge, and R. C. Ferrar, New Providence, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Time sharing duplex communication system. 2,531,433, Nov. 28.

Hofheimer, H. Clay, II, assignee: *See*—
Mallard, Logan L.

Holcomb, Arthur L., Tarzana, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic sound reproducing control system. 2,532,098, Nov. 28.

Holcomb, Normand P., Warehouse Point, and J. C. Rothwell, Rockville, assignors of one-third to E. H. De Frees, Wethersfield, Conn. Liquid dispensing machine. 2,531,938, Nov. 28.

Holland, John D., and D. D. Robinson, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Variable frequency selective circuits. 2,531,434, Nov. 28.

Holmes, Burton F., and H. H. Heindel, assignors to Schultz Die Casting Company, Toledo, Ohio. Die casting. 2,532,256, Nov. 28.

Holst, Edgar C.: *See*—
Dibert, George F., and Holst.

Homoky, William, St. Louis, Mo. Trotline fishing reel. 2,531,816, Nov. 28.

Honerkamp, Friedrich, assignor to Anemostat Corporation of America, New York, N. Y. Air outlet device. 2,531,733, Nov. 28.

Hook, George C., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Attachment of key opener to can ends or like container parts. 2,532,166, Nov. 28.

Hooker, Harbert D., Poplar Bluff, Mo. Shock resistance demonstrator. 2,532,167, Nov. 28.

Hoopes, Owen D.: *See*—
Summerbell, William, Rhein, and Hoopes.

Hopkins, Heywood H., Rochester, N. Y. Hip nail aiming device. 2,531,734, Nov. 28.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Measuring and controlling system. 2,531,682, Nov. 28.

Horsley, Caperton B., Stamford, Conn., assignor to Ultrasonic Corporation, Boston, Mass. Acoustic device. 2,532,229, Nov. 28.

Horton, Erwin C.: *See*—
Oishei, John R., Horton, and Scinta.

Hoth, Daniel F., Englewood, N. J. Speech privacy apparatus. 2,531,435, Nov. 28.

Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Compensated channel selector. 2,531,817, Nov. 28.

Houser, Rowland G., San Francisco, assignor to Marite Products, Inc., Grass Valley, Calif. Paint material. 2,532,099, Nov. 28.

Howell, Hugh A., Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill. Electromagnetic transducer head. 2,532,100, Nov. 28.

Hoyt, Herbert L.: *See*—
Wilcox, Richard L., and Hoyt.

Hubbell, Harvey, Long Hill, assignor to Harvey Hubbell, Inc., Bridgeport, Conn. Safety electrical outlet. 2,531,625, Nov. 28.

Hubbell, Harvey, Inc., assignee: *See*—
Hubbell, Harvey.

Huddle, Edwin F., Elmwood Park, Ill., assignor to International Harvester Company. Ensilage blower having a swinging feed trough. 2,532,064, Nov. 28.

Huber, Harry: *See*—
Doehler, Oskar, Kleen, and Huber.

Hull, Frank E., Noblesville, Ind. Lantern holder for boats. 2,531,626, Nov. 28.

Hunt, Victor E.: *See*—
Taylor, Harry, Hunt, and Melcher.

Hunter, James B., Upper Darby, R. C. Taylor, Melrose Park, and W. S. Young, Philadelphia, Pa., assignors to Consolidated Engineering Corporation, Pasadena, Calif. Apparatus for transferring fluids. 2,531,436, Nov. 28.

Hupp, Arleigh G., assignor to The Midland Co., South Milwaukee, Wis. Mower dampening hitch. 2,532,230, Nov. 28.

Hyde, James F., Corning, N. Y., assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Manufacture of glass yarn. 2,531,571, Nov. 28.

Hydrocarbon Research, Inc., assignee: *See*—
Frankenburg, Walter G.

Hyman, Benjamin M., Moline, Ill., assignor to International Harvester Company. Cotton stripper machine. 2,532,065, Nov. 28.

Ideal Novelty & Toy Co., assignee: *See*—
Baggott, Edmund W.

Ilford Limited, assignee: *See*—
Edwards, Harry D., and Kendall.

Imperial Chemical Industries Limited, assignee: *See*—
Curd, Francis H. S., and Rose.

Indiana Steel Products Company, The, assignee: *See*—
Howell, Hugh A.

Industrial Rayon Corporation, assignee: *See*—
D'Alelio, Gaetano F.

Ingersoll-Rand Company, assignee: *See*—
Anderson, James H.

Inland Steel Company, assignee: *See*—
Saunders, David W.

Interchemical Corporation, assignee: *See*—
Lee, Ernest D., and Schefbauer.

International Business Machines Corporation, assignee: *See*—
Crumrine, Chester W.
Daly, George F.
Dean, Kenneth W., Beattie, and Page.
Dodge, Ronald D., and Petz.
Fitch, Clyde J.
Jackson, Carlton T.
Johnson, Curt L., and Stauss.
Mills, Albert W., Furman, and Habenda.
Mills, Albert M., and Herman.
Reppert, Richard V.
Shafer, Orville B., and Sullivan.

International Harvester Company, assignee: *See*—
Acton, Russel D.
Carlson, Charles L., and Bond.
Huddle, Edwin F.
Hyman, Benjamin M.
Johnson, Frederick O.
Petersen, Hans P.
Raney, Russel R., and Faust.

International Latex Corporation, assignee: *See*—
Andrews, Fred W.

International Standard Electric Corporation, assignee: *See*—
Arditi, Maurice.
Bailey, Robert S.
Bray, Frederick H., Bates, and Doughty.
Cooper, Cedric L., and Ellison.
Grieg, Donald D.
Holland, John D., and Robinson.
Laycock, William E.
Levy, Maurice M.
McLarn, Ernest S.

Iron Fireman Manufacturing Company, assignee: *See*—
Webb, Ernest C.

Izenour, George C., Sea Cliff, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Stabilized line tuned oscillator. 2,531,683, Nov. 28.

Jablon, Bernard S., New York, N. Y. Vacuum cleaner attachment. 2,531,627, Nov. 28.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Breit, Robert J.

Jackson, Carlton T., Conesus, assignor to International Business Machines Corporation, New York, N. Y. Apparatus for control of typewriters. 2,531,881, Nov. 28.

Jackson, Edwin H., assignor to The Ranch House, Fort Worth, Tex. Portable barbecue. 2,531,684, Nov. 28.

Jackson, Elwood F.: *See*—
Scott, Milton J., and Jackson.

Jackson, Frederick P.: *See*—
Bolt, Jay A., and Jackson.

Jackson, Thomas, Spondon, near Derby, England, assignor, by mesne assignments, to Celanese Corporation of America. Production of textile materials. 2,531,513, Nov. 28.

Jacobs, Gerald, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Intermittent combustion spark ignition aircraft heater. 2,531,939, Nov. 28.

Jacoby, Meyer, New York, N. Y. Preparing synthetic filaments for wig making purposes and for making wigs therefrom. 2,531,685, Nov. 28.

Jaeger Watch Company, Inc., assignee: *See*—
Berge, Joseph.

Jakoubek, Frank J., Elmwood Park, Ill. Mine roof and timbering jack. 2,532,168, Nov. 28.

Janeway, Robert N., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Swing hanger pin for railway trucks. 2,532,272, Nov. 28.

Janisch, Bride, executor: *See*—
Janisch, Maxmillian P.

Janisch, Maxmillian P., deceased, Milwaukee, Wis.: B. Janisch and M. J. Hess, executrices of said M. P. Janisch. Minnow pail. 2,531,628, Nov. 28.

Janke, Edward J., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Sheet delivering means in rotary presses. 2,531,629, Nov. 28.

Jarmain, E. R., & Co. Limited, assignee: *See*—
Jensen, Louis M.

Jarvis, Kenneth W., Winnetka, Ill., assignor to Streeter-Amet Company. Traffic detector. 2,532,231, Nov. 28.

Jefferson Electric Company, assignee: *See*—
Berthel, Gust A.

Jeffrey Manufacturing Company, The, assignee: *See*—
Beltz, John S.

Jenkins, Cecil: *See*—
Woolslayer, Homer J., and Jenkins.

Jenkins, M. W., Sons, Inc., assignee: *See*—
Starr, John A.

Jensen, Helge, Flushing, N. Y., assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J. Meter mount. 2,531,514, Nov. 28.

Jensen, Louis M., assignor to E. R. Jarmain & Co. Limited, London, Ontario, Canada. Garment bagging machine mith pivotally mounted garment supporters and latch means therefor. 2,532,232, Nov. 28.

Joel, Amos E., Jr.: *See*—
Hague, Alfred E., and Joel.

Johansson, Hans-Erik, Lessebo, Sweden. Lamp socket. 2,531,686, Nov. 28.

Johns, William H.: *See*—
Elder, Flint C., and Johns.

Johnson, Arthur E., assignor of forty one-hundredths to D. K. S. Johnson, St. Louis, Mo. Resiliently mounted reclining chair. 2,532,025, Nov. 28.

Johnson, Bennie J., Bridgeport, Conn. Screw holding screw driver. 2,531,515, Nov. 28.

Johnson, Curt L., and K. R. Stauss, Vestal, assignors to International Business Machines Corporation, New York, N. Y. Electromagnetic step-by-step switch. 2,531,882, Nov. 28.

Johnson, Dorothy K. S., assignee: *See*—
Johnson, Arthur E.

Johnson Engineering and Manufacturing Co., assignee: *See*—
McGee, George.

Johnson, Edward L., South Orange, assignor to The Palnut Company, Irvington, N. J. Shield can with spring attachment means. 2,531,911, Nov. 28.

Johnson, Frederick O., Chicago, Ill., assignor to International Harvester Company. Containing unit. 2,532,066, Nov. 28.

Johnson, John L.: *See*—
Petrick, Harry E., and Johnson.

Johnson, Julius E., Jr., Midland, and D. R. Mussell, Clare, assignors to The Dow Chemical Company, Midland, Mich. Dihydroxydiphenyl coccidiosis control composition. 2,532,333, Nov. 28.

Johnson, Montgomery H., Boston, Mass., and W. W. Hansen, Garden City, N. Y., assignors to The Sperry Corporation. Wave guide impedance transformer. 2,531,437, Nov. 28.

Johnson, S. C., & Son, Inc., assignee: *See*— Pressing, Robert W., and Pettibone.

Johnson, Thorvald, Vancouver, British Columbia, Canada. Olican. 2,531,980, Nov. 28.

Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Vehicle room and berth arrangement. 2,531,687, Nov. 28.

Jones, Dow, & Company, Inc., assignee: *See*— Ackell, Joseph J., and Paulding.

Jones, Ewart R. H.: *See*— Heilbron, Ian M., and Jones.

Jones, Ewart R. H., A. E. Bide, and R. J. Nicholls, London, assignors to Glaxo Laboratories Limited, Greenford, Middlesex, England. Preparation of esters of 7-halogenocholesterol. 2,531,688, Nov. 28.

Jones, Frederick M., assignor to U. S. Thermo Control Co., Minneapolis, Minn. Two-cycle internal-combustion engine. 2,532,273, Nov. 28.

Jones, Hal R., Akron, Ohio. Cover for umbrellas or the like. 2,531,735, Nov. 28.

Jones, John P., Omaha, Nebr., assignor to Dairy Specialties, Inc. Cream remover. 2,531,630, Nov. 28.

Jones, Vivian D., Baltimore, Md. Potato harvesting machine. 2,532,169, Nov. 28.

Jones, William J., Fair Haven, N. J. Multiple distribution radio receiving system. 2,531,438, Nov. 28.

Jordan, Clifford, Glen Rock, N. J. Textile label. 2,531,631, Nov. 28.

Jordan, John W., Pittsburgh, Pa., assignor to National Lead Company, New York, N. Y. Vitamin-enriched product and producing same. 2,531,439, Nov. 28.

Jordan, John W., Pittsburgh, Pa., assignor to National Lead Company, New York, N. Y. Lubricants. 2,531,440, Nov. 28.

Jovanovich, Milton, Detroit, and J. J. Wharam, assignors to Ford Motor Company, Dearborn, Mich. Steering column gearshift clutch construction. 2,532,170, Nov. 28.

Joy Manufacturing Company, assignee: *See*— McCallum, Robert A., and Luce.

Julian, Percy L., Maywood, J. W. Cole, and E. W. Meyer, Chicago, and A. Magnani, Wilmette, Ill., assignors to The Glidden Company, Cleveland, Ohio. Rearrangement of steroid oximes. 2,531,441, Nov. 28.

Junker, Ralph D., Ansonia, Conn. Cross-chest buckle for parachute harness. 2,531,442, Nov. 28.

Jurrens, Lawrence D.: *See*— Crouch, Willie W., and Jurrens.

Kaelin, Pierre, Lausanne, Switzerland. Substation circuit with loudspeaker. 2,531,883, Nov. 28.

Kahn, Edgar, New York, N. Y. Eating doll. 2,531,912, Nov. 28.

Kaim, Simon, assignor to John E. Fast & Co., Chicago, Ill. Brake for capacitor winding machines. 2,531,913, Nov. 28.

Kaim, Simon, assignor to John E. Fast & Co., Chicago, Ill. Capacitor winding machine. 2,532,171, Nov. 28.

Kalman, Anna, executrix: *See*— Kalman, Nicholas L.

Kalman, Nicholas L., deceased, late of Rutherford, N. J., by A. Kalman, executrix, Essex County, N. J., assignor, by mesne assignments, to Pierce Laboratory, Inc., New York, N. Y. Separating rosin acids from mixed materials. 2,532,101, Nov. 28.

Kalmus, Henry P., Chicago, Ill., assignor to Zenith Radio Corporation. Electrical translating means and variable-inductor transducer therefor. 2,531,689, Nov. 28.

Karleen, Edward H., Denville, assignor to Processing Equipment Corporation, Bloomfield, N. J. Power-operated hand tool. 2,531,849, Nov. 28.

Kawecki, Henry C., Fleetwood, and G. F. Simons, South Temple, assignors to The Beryllium Corporation, Reading, Pa. Production of ammonium beryllium fluoride. 2,532,102, Nov. 28.

Kayatt, Philip J., New York, N. Y. Instrument panel illumination. 2,531,516, Nov. 28.

Kearfott Company, Inc., assignee: *See*— Reichel, Wladimir A.

Keller, Clarence J.: *See*— Nichols, Charles A., Todd, and Fletcher and Keller.

Kellershon, Heinrich J., Douglaston, N. Y. Precooler with internal fins. 2,532,026, Nov. 28.

Kellogg, M. W., Company, The, assignee: *See*— Fyffe, Robert J.

Kendall, John D.: *See*— Edwards, Harry D., and Kendall.

Kenerson, Stanley M., Springfield, Mass. Attachment for flexible rotary disk. 2,531,775, Nov. 28.

Kennel, Willard T., Kalispel, Mont. Foldable tree holder. 2,531,690, Nov. 28.

Kensington Steel Company, assignee: *See*— Anderson, Edmund C.

Kenyon, William O.: *See*— Reynolds, Delbert D., and Kenyon.

Kerkhof, Frederick, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustees. Device for producing sawtooth currents or voltages. 2,531,850, Nov. 28.

Kesselring, Fritz, Zollikon-Zurich, Switzerland, assignor to FKG Fritz Kesselring Gerätebau Aktiengesellschaft, Bachtobel-Weinfelden. Control apparatus for alternating current. 2,531,443, Nov. 28.

Kesselring, Fritz, FKG Gerätebau Aktiengesellschaft, assignee: *See*— Kesselring, Fritz.

Kiernan, Joseph F., Jersey City, N. J., assignor to Air Reduction Company, Incorporated. Method and apparatus for thermochemically scarfing billets and the like. 2,532,103, Nov. 28.

Kilminster, George, Birmingham, assignor of one-half to EGA Electric Limited, Wednesbury, England. Electric switch gear. 2,532,172, Nov. 28.

Kimble, Harry E., Albuquerque, N. Mex. Portable electric refrigerator. 2,532,234, Nov. 28.

King, James T., Burbank, Calif. Lawn mower. 2,532,105, Nov. 28.

King, James T., Burbank, Calif. Aircraft, stabilized and positioned, light apparatus for aerial navigation. 2,532,104, Nov. 28.

Kircher, Raymond J.: *See*— Hale, Douglas A. S., and Kircher.

Kirschenbaum, Isidor, New York, N. Y., and D. A. McCaulay, Chicago, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission. Corrosion testing apparatus. 2,532,257, Nov. 28.

Kirschman, Jack J., Atlantic City, N. J. Fishing float. 2,531,940, Nov. 28.

Kirsten, Kurt F. J., Seattle, Wash. Cycloidal propeller control mechanism. 2,532,235, Nov. 28.

Kissell, Albert, Woodbridge, Conn. Fishhook. 2,531,941, Nov. 28.

Kiwad, Isadore, Westwood, N. J. Toe protector. 2,531,851, Nov. 28.

Klazkin, Alfred, Brooklyn, N. Y. Cradle crib. 2,532,236, Nov. 28.

Kleen, Werner: *See*— Doehler, Oskar, Kleen, and Huber.

Kleiner, Willy, Rapperswil, Switzerland. Artificial tooth and securing same. 2,531,517, Nov. 28.

Knepper, Ralph J.: *See*— Whitmire, Homer E., and Knepper.

Knoedler Manufacturers, Inc., assignee: *See*— Knoedler, Roy E.

Knoedler, Roy E., Macomb, assignor to Knoedler Manufacturers, Inc., Streator, Ill. Tractor seat support. 2,531,572, Nov. 28.

Knott, Clyde L.: *See*— Topham, Laurence E., and Knott.

Knowles, F. H., assignee: *See*— Hall, Clyde W.

Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Synchronizing system. 2,531,691, Nov. 28.

Koffy-Pak Corp., assignee: *See*— Abrahams, Leon H.

Kohle, Albert G., Burlingame, and T. A. Greenley, San Bruno, Calif. Ribbing blocking machine. 2,531,852, Nov. 28.

Konikoff, Samuel, Pottstown, Pa. Rotary safety drive. 2,531,573, Nov. 28.

Korsgren, Theodore Y., Winnetka, Ill. Multiple opposed piston engine. 2,532,106, Nov. 28.

Kranick, Frank N. G.: *See*— Hansen, Charles W., and Kranick.

Kranick, Frank N. G., assignor to J. I. Case Company, Racine, Wis. Tractor. 2,531,818, Nov. 28.

Kreider, Walter J., assignor to The National Cash Register Company, Dayton, Ohio. Ribbon inking device. 2,531,692, Nov. 28.

Kroeschell Engineering Co., assignee: *See*— Christmann, William F.

Kuhlmann, John H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Synchronous motor. 2,531,518, Nov. 28.

Kuhler, Otto, Blauvelt, assignor to American Car and Foundry Company, New York, N. Y. Folding seat back and washbasin unit. 2,532,237, Nov. 28.

Kumpf, George A., Erlton, N. J., assignor to Radio Corporation of America. Shorting plug for diplex transmission lines. 2,531,519, Nov. 28.

La Bour, Harry E., Elkhart, Ind. Automatic return flow control valve. 2,532,067, Nov. 28.

Lager, Eric W., Palos Park, J. J. Prohaska, Palos Heights, and H. E. Haase, Chicago, Ill., assignors, by mesne assignments, to Swift & Company. Method and mechanism for closing fiber containers with a lined closure. 2,531,914, Nov. 28.

Lambert, Marion L. J., assignee: *See*— Thompson, Parke H.

Lambert, Roger E.: *See*— Crochet, Pierre, and Lambert.

Lamm, Uno, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Protecting inverters against disturbances. 2,532,107, Nov. 28.

Lamm, Uno, Ludvika, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Static current converter with means for putting it out of function. 2,532,108, Nov. 28.

Landwehr, Richard F., Laureiton, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Cigarette lighter. 2,531,632, Nov. 28.

Lane, Stanley S., U. S. Army, New London, Conn. Cabinet having separate deposit and collection compartments. 2,531,444, Nov. 28.

Lang, Gus W., Miami, Fla. Machine for making cement roofing tile. 2,531,574, Nov. 28.

Langel, Adrien L., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill. Multiple baking pan. 2,532,109, Nov. 28.

Lankford, Harry G., Jr., Wichita, Kans. Hamper. 2,531,520, Nov. 28.

Lansman, Paul S., Beverly Hills, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Line-tuned oscillator. 2,531,693, Nov. 28.

Larman, Julius E., Hartford, Conn. Snapper party hat. 2,531,853, Nov. 28.

Larsen, Bruno F., assignor to Pelham Electric Manufacturing Corp., Erie, Pa. Solderless connector. 2,532,068, Nov. 28.

Larsen, Earl I.: *See*— Hensel, Franz R., and Larsen.

Larsen, Louis F., Portland, Oreg. Tank trailer. 2,531,694, Nov. 28.

Latshaw, Elmer: *See*— Chapman, James F.

Laurin, Elmer F., Arlington Heights, Ill. Interest computing device. 2,531,633, Nov. 28.

Lawrence, Athol E. N., Johannesburg, Transvaal, Union of South Africa. Acoustical diaphragm with stiffening means. 2,531,634, Nov. 28.

Laycock, William E., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Manufacture of magnetic bodies from compressed powdered materials. 2,531,445, Nov. 28.

Lee, Ernest D., Sparta, and R. J. Schefbauer, Jr., Hasbrouck Heights, N. J., assignors to Interchemical Corporation, New York, N. Y. Improving the properties of natural resins and the products obtained thereby. 2,531,776, Nov. 28.

Lee, Francis H., San Pedro, assignor to Baker Oil Tools, Inc., Vernon, Calif. Well cementing device. 2,531,942, Nov. 28.

Lee, Francis H., San Pedro, assignor to Baker Oil Tools, Inc., Vernon, Calif. Collar apparatus for cementing casings in wells. 2,531,943, Nov. 28.

Lenz, Leo, New York, N. Y. Eyelash applicator. 2,532,110, Nov. 28.

Leonard, Albert R., Jr.: *See*— Burns, Edgar F., Woodruff, and Leonard.

Levy, Maurice M., Aldwych, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Gated trigger demodulating circuit. 2,531,446, Nov. 28.

Lewine, Irving W.: *See*— Woodard, Arthur, and Lewine.

Lewis, Arthur J., assignor to The Baird Machine Company, Stratford, Conn. Reversible ratchet drive mechanism for power vehicles. 2,531,819, Nov. 28.

Lewis, Fred S., assignor to Electro Voice, Incorporated, South Bend, Ind. Microphone stand. 2,532,173, Nov. 28.

Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hybrid channel-branching microwave filter. 2,531,447, Nov. 28.

Libbey-Owens-Ford Glass Company, assignee: *See*— Oberstar, Edward C.

Liebe, Charles H., St. Petersburg, Fla. Fishhook. 2,531,981, Nov. 28.

Lieberman, Edgar M., Kansas City, Mo. Mower. 2,532,174, Nov. 28.

Lightoller Company, assignee: *See*— Moser, Carl.

Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,532,258, Nov. 28.

Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,532,259, Nov. 28.

Linden, Gad A. L., Brooklyn, N. Y. Hairpin. 2,531,854, Nov. 28.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Voltage transformer. 2,531,820, Nov. 28.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Visible image radio responsive device. 2,532,175, Nov. 28.

Lindsey, Willard M.: *See*— Baeyertz, Mary, and Lindsey.

Lingenfelder, Frederick O., Lincoln, Nebr. Distance registering device. 2,531,448, Nov. 28.

Link, Edwin A., Binghamton, N. Y. Air-speed indicating system for rotary winged aircraft. 2,531,521, Nov. 28.

Lipton, Martin H., Forest Hills, N. Y. Combined smoke generator and conditioner. 2,532,260, Nov. 28.

Longini, Richard L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Weld timing circuits. 2,532,111, Nov. 28.

Loptson, Adalsveinn M., Batesburg, S. C., now by judicial change of name Alexander M. Loptson. Sipping straw. 2,531,855, Nov. 28.

Loptson, Alexander M.: *See*— Loptson, Adalsveinn M.

Lowen, Irving S.: *See*— Shamos, Morris H., and Lowen.

Luce, Edward M.: *See*— McCallum, Robert A., and Luce.

Luck, David G. C., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,532,176, Nov. 28.

Lynch, Joseph R., Boston, Mass. Safety razor for single edge blades. 2,531,736, Nov. 28.

Lyon, George A., Allenhurst, N. J. wheel cover. 2,531,449, Nov. 28.

Lyon Industries, Inc., assignee: *See*— Nicholson, Ralph A.

Lyon, Joe M., Jr., Los Angeles, assignor, by mesne assignments, to W. E. Wilson, Inglewood, Calif. Container having spring biased sliding closure. 2,531,737, Nov. 28.

M & D Display Manufacturing Corporation, assignee: *See*— Mapson, Donald L., and Buckmeyer.

Maager, Henry T., Delavan, Wis. Hunting arrow and arrowhead. 2,531,635, Nov. 28.

Macardier, Louis: *See*— Domenach, Louis, and Macardier.

MacDonald, Jack H.: *See*— McClellan, James E., and MacDonald.

MacDuff, Stanley I., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid motor mechanism. 2,531,695, Nov. 28.

Mackensen, Fred H., Bettendorf, Iowa, assignor to Mexico Refractories Company, Mexico, Mo. Checker for furnaces. 2,532,112, Nov. 28.

Mackiewicz, Zygmunt A., U. S. Navy. Arc-oxygen underwater cutting torch. 2,531,450, Nov. 28.

Macy Camera Corp., assignee: *See*— Mosca, Renato.

Maddox, Joseph V., assignor of one-fifth to B. Michael, Detroit, Mich. Geared socket wrench. 2,532,027, Nov. 28.

Magnani, Arthur: *See*— Julian, Percy L., Cole, Meyer, and Magnani.

Maier, Franz J., Bethesda, Md. Water purification. 2,531,451, Nov. 28.

Malke, Sven, assignor to A. O. Smith Corporation, Milwaukee, Wis. Mechanical unloading agitator for silos and the like. 2,532,238, Nov. 28.

Mallard, Logan L., assignor of one-half to H. C. Hofheimer, II, Norfolk, Va. Ice cube tray. 2,532,113, Nov. 28.

Mallory, Marion, assignor to The Mallory Research Company, Detroit, Mich. Ignition timing control for internal-combustion engines. 2,532,069, Nov. 28.

Mallory, P. R., & Co., Inc., assignee: *See*— Carpenter, Glenn W. Hensel, Franz R., and Larsen.

Mallory Research Company, The, assignee: *See*— Mallory, Marion.

Malouf, Abraham M., Burbank, Calif. Pliers. 2,531,522, Nov. 28.

Maly, James E., assignor of one-half to F. G. Voldrich, Cleveland, Ohio. Combined bird feeding receptacle and perch. 2,531,915, Nov. 28.

Mannon, Lloyd, San Francisco, Calif. Silent electric switch. 2,531,452, Nov. 28.

Mapson, Donald L., and C. E. Buckmeyer, Los Angeles, assignors to M & D Display Manufacturing Corporation, Alhambra, Calif. Mounting for price tag moldings. 2,532,028, Nov. 28.

Marchand, Nathan, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio beacon system. 2,531,453, Nov. 28.

Marcouiller, Arthur J., Milwaukee, Wis. Collapsible cart. 2,531,856, Nov. 28.

Marite Products, Inc., assignee: *See*— Houser, Rowland G.

Marquette Metal Products Company, assignee: *See*— Miller, Charles E., and Sweet.

Marrier, George E., Burlington, Vt. Brush scraper for containers. 2,531,982, Nov. 28.

Marshall, John N., Washington, D. C., assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Variable directive coupler. 2,531,777, Nov. 28.

Marshall, Robert J., Elmhurst, N. Y., assignor to The Sperry Corporation. Directive antenna structure. 2,531,454, Nov. 28.

Marshall, William A., Jr., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Water heater. 2,531,439, Nov. 28.

Marsico, James M., Creekside, Pa. Artificial lure. 2,531,738, Nov. 28.

Marson, Harry W.: *See*— Waletzky, Emanuel, and Marson.

Martin, Glenn L., Company, The, assignee: *See*— Hill, Thomas C.

Martin, John G., assignor to Bendix Aviation Corporation, South Bend, Ind. Friction disk. 2,531,696, Nov. 28.

Martin, Melvin S., New Holland, Pa. Weighing scoop. 2,531,575, Nov. 28.
Martini, Joseph J., New Dorp, N. Y. Dress form. 2,531,857, Nov. 28.
Mathieson Chemical Corporation, The, assignee: *See*—
Sprague, Owen F.
Woodward, Eric R.
Mattikow, Morris: *See*—
Taub, Abraham, and Mattikow.
Maunula, Otto A., Palo Alto, Calif. Filter control valve. 2,532,177, Nov. 28.
Maurer, John A.: *See*—
Binus, David J., and Maurer.
Maynard, Fred: *See*—
Durey, Clarence M., and Maynard.
McCallum, Archie H.: *See*—
Pile, Benjamin D., and McCallum.
McCallum, Robert A., Clarendon Hills, Ill., and E. M. Luce, Michigan City, Ind., assignors to Joy Manufacturing Company. Rod spinning apparatus. 2,531,821, Nov. 28.
McCart, Isaac N.: *See*—
Rhodes, Cecil, and McCart.
McCaulay, David A.: *See*—
Kirshenbaum, Isidor, and McCaulay.
McClellan, James E., Los Angeles, and J. H. MacDonald, Glendale, assignors to Buttress & McClellan Inc., Los Angeles, Calif. Casting concrete building elements. 2,531,576, Nov. 28.
McCoy, Clarence J., assignor to Noble Drilling Corp., Tulsa, Okla. Stabilizable vessel for submarine operations and operating the same. 2,531,983, Nov. 28.
McCullough, Edward E., Minneapolis, Minn. Instrument for making perspective drawings. 2,531,636, Nov. 28.
McGee, George, assignor to Johnson Engineering and Manufacturing Co., Wilkes-Barre, Pa. Sleeve or bushing for holding bobbins firmly on the pins of pin trays. 2,532,114, Nov. 28.
McGrew, John A., Albany, N. Y. Rail fastener. 2,531,577, Nov. 28.
McIlvaine, Robert L., Glencoe, assignor, by mesne assignments, to H. S. Simpson, Evanston, Ill., as trustee. Material cooling device. 2,531,578, Nov. 28.
McKean, Boyd A., Erie, assignor to Titan Tool Company, Fairview, Pa. Stud setting device. 2,531,456, Nov. 28.
McKinney, Norman, Elkins Park, Pa., assignor of one-half to J. F. Ebert, doing business as Ebert Engineering and Manufacturing Company. Coil construction. 2,531,916, Nov. 28.
McKinney, Roy E., Dallas, Tex. Weed extractor. 2,532,115, Nov. 28.
McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Push-button switch arranged in multiple rows. 2,531,457, Nov. 28.
McLemore, Price C., The Oaks, Waugh, Ala. Apparatus for cultivation of plants. 2,531,884, Nov. 28.
Medoff, Louis I., Cambridge, Mass. Diaper. 2,532,029, Nov. 28.
Melcher, Reuben: *See*—
Taylor, Harry, Hunt, and Melcher.
Merchant & Evans Company, assignee: *See*—
Newlin, John S.
Merck & Co., Inc., assignee: *See*—
Tishler, Max, and Wellman.
Merner, John, assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Adjustable length folding legs for ironing boards. 2,531,778, Nov. 28.
Metcalf, Arthur G. B., Milton, Mass. Textile machine. 2,531,944, Nov. 28.
Mexico Refractories Company, assignee: *See*—
Mackensen, Fred H.
Meyer, Edwin W.: *See*—
Julian, Percy L., Cole, Meyer, and Magnani.
Meyer, Elmer R.: *See*—
Brecht, Rudolph W., and Meyer.
Meyer, Walter C., Warrenton, assignor to Missouri Jewelite Sign Company, St. Louis, Mo. Luminous sign. 2,532,178, Nov. 28.
Meyerhans, August, Nussbaumen, near Baden, assignor to Aktiengesellschaft Brown, Beveri & Cie, Baden, Switzerland. Transformer. 2,531,697, Nov. 28.
Michael, Bacheer, assignee: *See*—
Maddox, Joseph V.
Midgette, Ernest L., and R. W. Reid, assignors to American Engineering Company, Philadelphia, Pa. Spreader stoker. 2,531,779, Nov. 28.
Midland Co., The, assignee: *See*—
Hupp, Arleigh G.
Mieher, Walter W.: *See*—
Barrow, Wilmer L., and Mieher.
Millar, William J., assignor of one-half to Electric Resistance Furnace Company Limited, London, England. Roller unit for furnaces. 2,531,984, Nov. 28.
Miller, Charles A., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Vapor generator assembly. 2,532,179, Nov. 28.
Miller, Charles E., East Cleveland, and F. H. Sweet, Euclid, assignors to Marquette Metal Products Company, Cleveland, Ohio. Brake for textile mill spindles. 2,532,261, Nov. 28.
Miller, Charles G., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic call recording system for automatic telephony. 2,531,837, Nov. 28.
Miller, Clarence L., Chase, Kans. Cradle. 2,531,858, Nov. 28.
Miller, Raymond J., Detroit, Mich. Ignition circuit. 2,531,638, Nov. 28.
Mills, Albert M., and L. J. Herman, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Stencil controlled printing machine. 2,531,886, Nov. 28.
Mills, Albert W., and F. J. Furman, Endicott, and E. J. Rabenda, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Paper feeding device. 2,531,885, Nov. 28.
Mine Safety Appliances Company, assignee: *See*—
Yant, William P., and Cotabish.
Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Marshall, John N.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Kuhlmann, John H.
Side, Frederick W.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Dahlquist, Carl A., Hendricks, and Sohl.
Minnesota and Ontario Paper Company, assignee: *See*—
Barrett, William H., and Asdell.
Minser, Donald R., assignee: *See*—
Moore, Arleigh R.
Missouri Jewelite Sign Company, assignee: *See*—
Meyer, Walter C.
Mitex Camera Company, assignee: *See*—
Neyhart, Arthur P.
Mizzy, Inc., assignee: *See*—
Roehr, Zbislaw M.
Mock, Edward J., Harrisburg, Oreg. Trailer hitch. 2,531,859, Nov. 28.
Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Fuel feeding system for engines. 2,531,780, Nov. 28.
Modlish, Gus P., assignee: *See*—
Adams, Mozel A.
Moe, Owen A.: *See*—
Warner, Donald T., and Moe.
Moeller, Edward G., Davenport, Iowa. Drape-supporting crane. 2,531,822, Nov. 28.
Mohawk Carpet Mills, Inc., assignee: *See*—
Rice, Walter A.
Molas, Phillip, and D. Pileggi, Chicago, Ill. Orthopedic bar. 2,531,579, Nov. 28.
Moller, Henry F.: *See*—
Wolf, Andrew J., Moller, and Crook.
Møllerhöj, Johannes S., Charlottenlund, and S. Stigsgaard, Copenhagen, Denmark. Expansible sheath electric power cable. 2,531,917, Nov. 28.
Monaco, Foster, Jackson Heights, N. Y. Infant's teething toy. 2,532,116, Nov. 28.
Mongelli, Giuseppe A., Philadelphia, Pa. Universal trouser pattern. 2,531,781, Nov. 28.
Monsanto Chemical Company, assignee: *See*—
Blake, Edward S.
Ott, John B.
Scott, Milton J., and Jackson.
Mooney, Thomas J.: *See*—
Walker, Joseph F., and Mooney.
Moore, Arleigh R., Canton, assignor of one-half to D. R. Minser, Hartville, Ohio. Piston ring. 2,532,180, Nov. 28.
Moore, Emmett L., Atlanta, Ga. Friction assembly and making the same. 2,531,782, Nov. 28.
Moore, George L., Hudson, and W. E. Sicha, Cleveland, Ohio, and R. B. Wrege, Louisville, Ky., assignors to Aluminum Company of America, Pittsburgh, Pa. Cast piano plate. 2,532,070, Nov. 28.
Moore, Lee C., Corporation, assignee: *See*—
Woolslayer, Homer J., and Jenkins.
Moore, Milton E., New Orleans, La. Illuminated drinking glass. 2,532,181, Nov. 28.
Morgan, Arthur E., assignee: *See*—
Bean, Xarifa L.
Mosca, Renato, Trieste, Italy, assignor, by mesne assignments, to Macy Camera Corp., New York, N. Y. Photographic camera. 2,531,783, Nov. 28.
Moser, Albert E., Dayton, Idaho. Phosphate distributing machine. 2,531,580, Nov. 28.
Moser, Carl, Larchmont, assignor to Lightoller Company, New York, N. Y. Lamp shade mount. 2,531,523, Nov. 28.
Motoview, Inc., assignee: *See*—
Beatty, William E.
Moubis, Jozef H. A.: *See*—
Penning, Frans M., and Moubis.
Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Reflection reducing coatings having uniform reflection for all wave lengths of light and forming such coatings. 2,531,945, Nov. 28.
Moyer, Richard L., Reading, Pa. Internal-combustion turbine engine. 2,531,581, Nov. 28.
Muller, Oscar P.: *See*—
Peterson, Edwin P., and Muller.
Murphy, Frank W., Tulsa, Okla. Safety switch for engine cooling systems. 2,532,182, Nov. 28.

Murray, Howard J., New York, N. Y. Color television apparatus. 2,531,823, Nov. 28.
Mussell, Dorsey R.: *See*—
Johnson, Julius E., and Mussell.
Musser, David M., East Orange, N. J., assignor to Pacific Mills, Boston, Mass. Treatment of cellulosic textile material to increase its water absorbency. 2,532,183, Nov. 28.
Myers, Joseph M., Austin, Tex. Gear shifter control. 2,531,582, Nov. 28.
Myers, Myron L.: *See*—
Todd, Seldon P., Myers, and Cauwenberg.
Nasmith, John L., assignor to Vickers-Armstrongs Limited, London, England. Wire stitching mechanism. 2,531,985, Nov. 28.
Nassimbene, Ernest, assignor to The Gates Rubber Company, Denver, Colo. Conveyer belt for photographic printing machines. 2,532,184, Nov. 28.
National Cash Register Company, The, assignee: *See*—
Kreider, Walter J.
National Electric Instrument Co., Inc., assignee: *See*—
Rubens, Harry S., and Suwa.
National Lead Company, assignee: *See*—
Carter, Lawrence W., Hendricks, and Bolley.
Jordan, John W.
Peterson, Edwin P., and Muller.
National Starch Products Inc., assignee: *See*—
White, Thomas A.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Izenour, George C.
Lansman, Paul S.
Smith, Frederick H., and Couperus.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Towner, Orrin W.
Nebel, William, Charlotte, N. C. Ankle and high splice structure in full-fashioned stocking and making the same. 2,532,071, Nov. 28.
Nebel, William, Charlotte, N. C. High splice structure for full-fashioned stockings and making the same. 2,532,072, Nov. 28.
Nehrbas, Howard G., Hammond, Ind., assignor to Combustion Engineering-Superheater, Inc. Combustion safety control system. 2,531,887, Nov. 28.
Newell, Harold D., Beaver Falls, assignor to The Babcock & Wilcox Tube Company, West Mayfield, Pa. Nickel steel alloys. 2,532,117, Nov. 28.
Newlin, John S., Paoli, assignor to Merchant & Evans Company, Philadelphia, Pa. Finned tube winding machine. 2,532,239, Nov. 28.
Neyhart, Arthur P., assignor to Mitex Camera Company, Los Angeles, Calif. Photographic shutter. 2,531,639, Nov. 28.
Nicholas, Mildred W., Denver, Colo. Skein holder for yarn or the like. 2,532,185, Nov. 28.
Nicholls, Ralph J.: *See*—
Jones, Ewart R. H., Bide, and Nicholls.
Nichols, Charles A., M. E. Todd, W. A. Fletcher, and C. J. Keller, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Molding machine. 2,531,524, Nov. 28.
Nicholson, Ralph A., Chicago, Ill., assignor, by mesne assignments, to Lyon Industries, Inc., New York, N. Y. Beverage dispensing apparatus. 2,532,118, Nov. 28.
Nilsson, Nils A., assignor to Aktiebolaget Wilh Becker, Stockholm, Sweden. Device in easels for carrying pictures. 2,532,030, Nov. 28.
Nixon, Alan C., Berkeley, C. H. Deal, Jr., Alameda, and R. J. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Separation of C_8 H_{10} aromatic hydrocarbons by extractive distillation. 2,532,031, Nov. 28.
Nixon Nitration Works, assignee: *See*—
Orsini, Camillo D.
Noble Drilling Corp., assignee: *See*—
McCoy, Clarence J.
Nolan, Mildred A., Coral Gables, Fla. Fish trap with expandible hooks. 2,532,186, Nov. 28.
Nye, Harry E.: *See*—
Nye, Maurice E. and H. E.
Nye, Maurice E. and H. E., Barberton, Ohio, assignors to The Nye Rubber Company. Apparatus for molding plastic material. 2,531,888, Nov. 28.
Nye, Robert G., San Diego, Calif. Direct coupled balanced amplifier. 2,531,458, Nov. 28.
Nye Rubber Company, The, assignee: *See*—
Nye, Maurice E. and H. E.
Oakes, George W., Crystal City, Mo. Fountain pen filling device. 2,531,525, Nov. 28.
Oberstar, Edward C., Ottawa, Ill., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for turning glass sheets. 2,531,640, Nov. 28.
O'Brien, William J., assignor to The Decca Record Company, Limited, London, England. Radio direction indicating device. 2,531,918, Nov. 28.
O'Brien, William J., assignor to The Decca Record Company, Limited, London, England. Radio-frequency navigational aid. 2,531,919, Nov. 28.
Offen, Bernard, Chicago, Ill. Apparatus for drying webs. 2,532,032, Nov. 28.
Oishei, John R., Buffalo, E. C. Horton, Hamburg, and A. C. Scinta, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,531,889, Nov. 28.
O'Neal, Charles E., Jr., Jackson, Miss. Safety cap for gas tanks. 2,531,860, Nov. 28.
Orscheln, Albert, assignor of thirty-five one hundredths to W. C. Orscheln, Moberly, thirty-five one hundredths to E. J. Orscheln, Columbia, Mo., ten one hundredths to T. B. Orscheln, Granite City, Ill., and ten one hundredths to A. G. Orscheln, Kansas City, Mo. Brake operating or similar mechanism. 2,531,740, Nov. 28.
Orscheln, Aloysius G., assignee: *See*—
Orscheln, Albert.
Orscheln, Edward J., assignee: *See*—
Orscheln, Albert.
Orscheln, Theodore B., assignee: *See*—
Orscheln, Albert.
Orscheln, William C., assignee: *See*—
Orscheln, Albert.
Orr, Clifford M.: *See*—
Goldsby, Fred L., and Orr.
Orsini, Camillo D., Highland Park, assignor to Nixon Nitration Works, Nixon, N. J. Preparing thermoplastic material. 2,531,739, Nov. 28.
Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Unsaturated alkyd foam resins. 2,532,240, Nov. 28.
Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Polyvinyl acetal foams. 2,532,241, Nov. 28.
Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Polystyrene foams. 2,532,242, Nov. 28.
Ott, John B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Polyethylene foams. 2,532,243, Nov. 28.
Ott, Walter, Bern, Switzerland. Roentgen-ray apparatus. 2,531,583, Nov. 28.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Hyde, James F.
Paasche, Jens A., Chicago, Ill. Multiple fluid airbrush. 2,532,187, Nov. 28.
Pacific Mills, assignee: *See*—
Musser, David M.
Packer, Howard, Chicago, Ill., assignor to Witco Chemical Company. Stabilized metallic soaps. 2,531,460, Nov. 28.
Page, Ralph E.: *See*—
Dean, Kenneth W., Beattie, and Page.
Paille, Eugene, Los Angeles, assignor to General Controls Co., Glendale, Calif. Magnetically-controlled valve. 2,531,824, Nov. 28.
Palnut Company, The, assignee: *See*—
Johnson, Edward L.
Parker, George B. D., Raleigh, N. C. Surfboard. 2,531,946, Nov. 28.
Parks, Robert D., Concord, Mass. Food conditioning apparatus. 2,532,033, Nov. 28.
Pasmore, William J., St. Maries, Idaho. Can holder and perforator. 2,532,244, Nov. 28.
Patterson, Roy L., Minneapolis, Minn. Grain distributor. 2,531,526, Nov. 28.
Patterson, Roy L., Minneapolis, Minn. Grain distributor. 2,531,527, Nov. 28.
Paulding, Herbert L.: *See*—
Ackell, Joseph J., and Paulding.
Pawsat, Ewald F. and R. L., Maysville, Ky., said R. L. Pawsat assignor to E. F. Pawsat. Steering fork. 2,532,034, Nov. 28.
Pawsat, Ruben L.: *See*—
Pawsat, Ewald F. and R. L.
Pearson, Otto H., assignor to L. N. Strike, Salt Lake City, Utah. Indexing and lock mechanism. 2,531,890, Nov. 28.
Peck, Alvin W., Springdale, Ark., assignor to Phillips Petroleum Company. Apparatus for flame cultivation. 2,531,741, Nov. 28.
Pelham Electric Manufacturing Corp., assignee: *See*—
Larsen, Bruno F.
Penning, Frans M., and J. H. A. Moubis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Ion discharge tube for high voltages. 2,532,188, Nov. 28.
Pennsylvania Drilling Company, assignee: *See*—
Sturges, Frank C., and Strope.
People, in the territory of the United States, dedicated to the free use of: *See*—
Brannon, Loyd W.
Perrigo, Howard A., Hamden, Conn. Indicating extension-attachment for collapsible tubes. 2,531,641, Nov. 28.
Petersen, Hans P., Chicago, Ill., assignor to International Harvester Company. Doffer for cotton picker spindles. 2,532,073, Nov. 28.
Peterson, Edwin P., Brooklyn, and O. P. Muller, assignors to National Lead Company, New York, N. Y. Paint, varnish, and lacquer remover. 2,531,825, Nov. 28.
Peterson, John W., Alexandria, Minn. Sanitary chicken nest. 2,531,584, Nov. 28.
Peterson, Liss C.: *See*—
Barney, Harold L., Peterson, Potter, and Sears.
Petrick, Harry E., and J. L. Johnson, Cheney, Wash. Outlet box wall and cable clamp. 2,531,698, Nov. 28.
Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin, and Pettingill.

Petry, Ray C., assignor of one-half to E. L. Whiteing, Westside, Iowa. Lining railroad curves. 2,531,461, Nov. 28.

Pettibone, Bradley J.: *See*—
Pressing, Robert W., and Pettibone.

Pettinhill, Owen H.: *See*—
De Groote, Melvin, and Pettingill.

Pets, John L.: *See*—
Dodge, Ronald D., and Pets.

Pfenninger, Hans, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Blower for compressed combustible gases. 2,532,035, Nov. 28.

Phares, Thomas E., Shelbyville, Ind., assignor to Chambers Corporation. Rack for toasting bread. 2,531,462, Nov. 28.

Phelps, William H., Ralston, Nebr. Two-cycle rotary valve internal-combustion engine. 2,531,699, Nov. 28.

Philco Corporation, assignee: *See*—
Bradley, William E.
Geoghegan, John J.

Phillips, Albert J.: *See*—
Rowen, John W., and Phillips.

Phillips Control Corporation, assignee: *See*—
Wasserlein, Henry G.

Phillips Petroleum Company, assignee: *See*—
Ayres, Charles E.
Carnell, Paul H.
Church, J. Frank.
Crouch, Willie W., and Jurrens.
Peck, Alvin W.

Pidco Limited, assignee: *See*—
Seamark, Lewis M. C.

Pien, Hsin- S., Drexel Hill, assignor to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring. 2,531,784, Nov. 28.

Pierce Company, assignee: *See*—
Finch, William G. H.

Pierce Laboratory, Inc., assignee: *See*—
Kalman, Nicholas L.
Zeiss, Harold H.

Pile, Benjamin D., New Orleans, La., and A. H. McCallum, Peoria, Ill. Process and apparatus for producing capsules. 2,531,986, Nov. 28.

Pileggi, Domenick: *See*—
Molas, Philip, and Pileggi.

Pillod, Jules J., Toledo, Ohio. Fish holding implement. 2,531,987, Nov. 28.

Pinardi, Charles P., Dearborn, and D. L. Poole, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Accelerator pedal. 2,532,189, Nov. 28.

Pirani, Marcello, Kingston Hill, and A. Hilliard, assignors to C. U. R. A. Patents Limited, London, England. Refractory brick, blocks, or like elements. 2,532,190, Nov. 28.

Pittsburgh Plate Glass Company, assignee: *See*—
Price, Robert J.

Polaroid Corporation, assignee: *See*—
Fairbank, Murry N., and Whittier.

Pomykala, Edmund S., U. S. Navy. Underground storage tank. 2,531,742, Nov. 28.

Poole, Douglas L.: *See*—
Pinardi, Charles P., and Poole.

Poor and Company, assignee: *See*—
Thonger, Thurland G.

Pope, William H., Winston-Salem, N. C. Combination flashlight, eyepiece, and headgear. 2,531,585, Nov. 22.

Porter, Charles A., West Caldwell, assignor to Resistoflex Corporation, Belleville, N. J. Polyvinyl alcohol compositions containing corrosion inhibitor. 2,531,700, Nov. 28.

Potter, Ralph K.: *See*—
Barney, Harold L., Peterson, Potter, and Sears.

Potter, Ralph K., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic transducing system. 2,531,642, Nov. 28.

Potts, Louis M., deceased, Evanston, Ill., by M. W. C. Potts, executrix, Evanston, assignor to Teletype Corporation, Chicago, Ill. Mechanical ciphering unit. 2,531,528, Nov. 28.

Potts, Martha W. C., executrix: *See*—
Potts, Louis M.

Poukhalo-Pouhklovsky, Alexis, Paris, France, assignor of one-half to K. P. Puchlowski, Pittsburgh, Pa. Protective apparatus for refrigerating systems. 2,532,074, Nov. 28.

Powell, Herman, Chicago, assignor to Columbia Enterprises, Grayslake, Ill. Light holder for cameras. 2,532,075, Nov. 28.

Powell, John, Kokomo, Ind. Seed planting machine. 2,532,191, Nov. 28.

Powell, John, Kokomo, Ind. Seed planting machine. 2,532,192, Nov. 28.

Pressing, Robert W., and B. J. Pettibone, assignors to S. C. Johnson & Son, Inc., Racine, Wis. Wax refining. 2,531,785, Nov. 28.

Price, Harold W., Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,531,701, Nov. 28.

Price, James F., Erlton, N. J., assignor to Radio Corporation of America. Inspection apparatus and method. 2,531,529, Nov. 28.

Price, Robert J., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Plate glass sizing roll. 2,531,988, Nov. 28.

Prince Castle Manufacturing Division, Inc., assignee: *See*—
Prince, Earl S., and Brotheridge.

Prince, Earl S., and J. Brotheridge, Rock Falls, assignors to Prince Castle Manufacturing Division, Inc., Sterling, Ill. Multiple drink mixing machine. 2,531,989, Nov. 28.

Pringle, Tom, Ardmore, Okla. Trotline hanger. 2,531,643, Nov. 28.

Processing Equipment Corporation, assignee: *See*—
Karleen, Edward H.

Prohaska, James J.: *See*—
Lager, Eric W., Prohaska, and Haase.

Pryor, Dean E., Whittier, and J. C. Baker, Monrovia, Calif., assignors to Wallace & Tiernan Products Corporation, Belleville, N. J. Treatment of fruits and vegetables. 2,531,463, Nov. 28.

Puchlowski, Kanstanty P., assignee: *See*—
Poukhalo-Poukhlovsky, Alexis.

Pullman Company, The, assignee: *See*—
Jones, Basil E.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Turner, Charles H.

Pure Oil Company, The, assignee: *See*—
Bell, Richmond T.
Bell, Richmond T., and Thacker.

Radio Corporation of America, assignee: *See*—
Atwood, John R., and Haneell.
Cain, Elmer B.
Christian, Schuyler M.
Evans, John.
Ewing, Douglas H.
Goldsmith, Alfred N.
Grundmann, Gustave L.
Herbst, Philip J
Houghton, William D.
Koch, Winfield R.
Kumpf, George A.
Lindenblad, Nils E.
Linder, Ernest G.
Lack, David G. C.
Price, James F.
Simpkiss, John O., Jr.
Smith, John P.

Radio Corporation of America, assignee: *See*—
Sziklai, George C.
Wendt, Karl R.
Whittaker, James L.

Raminger, Martha, Brooklyn, N. Y. Suction ash collector. 2,531,920, Nov. 28.

Ramsey, Raymond G., Driver, assignor to American Package Corporation, Portsmouth, Va. Impregnating wood with sodium thiosulfate. 2,532,193, Nov. 28.

Ramsey, Walter E., Graham, Tex. Retrieving device for articles submerged in water. 2,531,586, Nov. 28.

Ranch House, The, assignee: *See*—
Jackson, Edwin H.

Randall, David I., and S. R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Dihalomethylbenzanthrones. 2,531,464, Nov. 28.

Randall, David I., and S. R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Halomethyl-4-halobenzanthrones. 2,531,465, Nov. 28.

Raney, Russell R., La Grange, and E. L. Faust, Elmhurst, Ill., assignors to International Harvester Company. Adjustable axle construction for potato planters. 2,532,076, Nov. 28.

Ranger, Richard H., Newark, N. J. Stereoscopic radio location device. 2,531,466, Nov. 28.

Ransburg Electro-Coating Corp., assignee: *See*—
Stone, Robert H.

Rappoli, Edmund J., Medford, Mass. Molding concrete building units. 2,531,990, Nov. 28.

Ray, Don, Beverly Hills, Calif. Filling flexible containers with finely divided materials and machine therefor. 2,531,743, Nov. 28.

Rayburn, Vincent A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Differential drive assembly for article-handling devices. 2,531,644, Nov. 28.

Raytheon Manufacturing Company, assignee: *See*—
Williams, Louis A.

Reade, Ralph B., Larchmont, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Receiver system. 2,531,467, Nov. 28.

Reading, John G., Black Mountain, N. C. Boat trailer. 2,531,947, Nov. 28.

Reed, Robert G.: *See*—
Breisch, Edgar W., Reed, and Golladay.

Reed Roller Bit Company, assignee: *See*—
Stockes, John C., and Goolsbee.
Wolf, Andrew J., Moller, and Crook.

Reek, Royal J., and F. O. Wisman, assignors to Bendix Aviation Corporation, South Bend, Ind. Support for electrical machines. 2,531,702, Nov. 28.

Reese, Richard T., North Hollywood, Calif. Bolt and nut fixture. 8,531,892, Nov. 28.

Reichel, Waldimir A., Hackensack, N. J., assignor, by mesne assignments, to Kearfott Company, New York, N. Y. Gyroscope erecting system. 2,531,826, Nov. 28.

Reid, Robert W.: *See*—
Midgette, Ernst L., and Reid.

Reid, Willard J., Genoa, Ill. Synchronous motor. 2,531,530, Nov. 28.

Reliable Electric Company, assignee: *See*—
Baxter, Donald L.

Reliable Machine Works, Inc., assignee: *See*—
Friedman, Harold S.

Reliable Plastics Company, Limited, assignee: *See*—
Collins, Henry M., and Wright.

Republic Flow Meters Company, assignee: *See*—
Drescher, Rowland B., and Wenzel.

Remboid, Albert A., San Francisco, Calif. Card for sequence sorting. 2,531,786, Nov. 28.

Reppert, Richard V., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Jam-free power mechanism for typewriters. 2,531,891, Nov. 28.

Resistoflex Corporation, assignee: *See*—
Porter, Charles A.

Reynolds, Charles C., assignor to Reyson, Inc., Minneapolis, Minn. Case for fishing reels. 2,532,119, Nov. 28.

Reynolds, Delbert D., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Polyvinyl sulfonates and their preparation. 2,531,468, Nov. 28.

Reynolds, Delbert D., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Polyvinyl sulfonates and preparing the same. 2,531,469, Nov. 28.

Reyson, Inc., assignee: *See*—
Reynolds, Charles C.

Rheim, Louis J.: *See*—
Summerbell, William, Rhein, and Hoopes.

Rhodes, Cecil, and I. N. McCart, Aberdovey, Wales; said McCart assignor to said Rhodes. Apparatus for converting bundles of continuous filaments into a sliver or roving of staple fiber. 2,531,787, Nov. 28.

Ricards, Charles L.: *See*—
Roesen, Oscar C., Ricards, and Tollison.

Rice, Walter A., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Knitted pile fabric. 2,531,718, Nov. 28.

Richardo, Harry R., London, England. Starting mechanism for internal-combustion engines. 2,531,788, Nov. 28.

Richardson Company, The, assignee: *See*—
Dillehay, Edward R., and Schuetz.

Richardson, George K., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Support bearing and gear assembly. 2,531,587, Nov. 28.

Rickard, James E., Hollywood, Calif. Golf tee. 2,531,470, Nov. 28.

Rinehart, De Ford: *See*—
Cline, Kenneth W., and Rinehart.

Roach, John R., and H. Wittcoff, Minneapolis, Minn., assignors to General Mills, Inc. Preparing polyhydric alcohols. 2,532,036, Nov. 28.

Road, Richard A., West Lafayette, assignor to Duncan Electric Manufacturing Company La Fayette, Ind. Meter reset device. 2,531,948, Nov. 28.

Robbins, Azor D., Glen Cove, N. Y. Balanced fluid clutch. 2,531,744, Nov. 28.

Robbins Engineering Company, assignee: *See*—
Schultz, Russel A.

Robbins, Jesse J., assignor to Stylofede Corporation, Glendale, Calif. Extendible eraser. 2,532,037, Nov. 28.

Robbins & Myers, Inc., assignee: *See*—
Byram, Frederick C.

Roberts, Ingham S., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Twister stopping device. 2,531,531, Nov. 28.

Robertson, Thomas M., New York, N. Y. Vacuum-actuated clutch and/or brake control. 2,532,194, Nov. 28.

Robinson, Duncan D.: *See*—
Holland, John D., and Robinson.

Rockola, David C., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill. Bracket for remote control units. 2,531,645, Nov. 28.

Rockola, David C., assignor, by mesne assignments to Rock-Ola Manufacturing Corporation, Chicago, Ill. Door structure. 2,531,646, Nov. 28.

Rock-Ola Manufacturing Corporation, assignee: *See*—
Rockola, David C.

Rodwell, Frederick J., Moose Jaw, Saskatchewan, Canada. Automatic drain trap. 2,531,991, Nov. 28.

Roehr, Zbislaw M., assignor to Mizzy, Inc., New York, N. Y. Hypodermic syringe. 2,531,893, Nov. 28.

Roesen, Oscar C., Scarsdale, N. Y., C. L. Ricards, South Plainfield, and P. L. Tollison, North Plainfield, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Stereotype plate forming and finishing machine. 2,531,647, Nov. 28.

Rolls-Royce Limited, assignee: *See*—
West, Harold E. W.

Roper, Geo. D., Corporation, assignee: *See*—
Durdin, Augustus C., III

Rose, Francis L.: *See*—
Curd, Francis H. S., and Rose.

Rosenow, Monroe H., and W. E. Schwalbe, Milwaukee, Wis. Golf club cover. 2,532,195, Nov. 28.

Rossman, Edwin F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Fluid flow control device. 2,531,532, Nov. 28.

Rotax Limited, assignee: *See*—
Baines, John A.

Rothwell, John C.: *See*—
Holcomb, Normand P., and Rothwell.

Rovnak, George J., Campbell, Ohio. Combined remote control and extension for telephones. 2,531,648, Nov. 28.

Rowe, William, Lewiston, assignor to Bonafide Mills, Inc., Lisbon, Maine. Floor or wall covering and making the same. 2,532,196, Nov. 28.

Rowe, William, Lewiston, assignor to Bonafide Mills, Inc., Lisbon, Maine. Thermoplastic composition. 2,532,197, Nov. 28.

Rowen, John W., South Fairlington, Va., and A. J. Phillips, deceased, Arlington, Va.; by T. D. Dudderar, administrator, Dover, N. J. Estimating the phlegmatizing properties of waxes as applied to high explosives. 2,531,471, Nov. 28.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Atomizing sprinkler head. 2,531,789, Nov. 28.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Sprinkler head assembly. 2,531,790, Nov. 28.

Royal Patent Corporation, assignee: *See*—
Summers, William J.

Rubens, Harry S., Manhasset, and I. Suwa, Jackson Heights, assignors to National Electric Instrument Co., Inc., Elmhurst, N. Y. Rotatable valve and switch support for endoscopic instruments. 2,531,827, Nov. 28.

Ruhl, George W.: *See*—
Davis, Harry A., and Ruhl.

Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Condensates of rosin with unsaturated carbocylic compounds. 2,532,120, Nov. 28.

Rush, Thomas L., Cleveland, Ohio. Can opener. 2,532,121, Nov. 28.

Rutherford Food Corporation, assignee: *See*—
Van Voorst, George.

S & C Electric Company, assignee: *See*—
Schultheiss, Carl E.

S & S Corrugated Paper Machinery Co., Inc., assignee: *See*—
Bascetta, Angelo.

Saftlas, Samuel, Newark, N. J. Knitting machine. 2,531,649, Nov. 28.

Salazar, Alfred M., West Islip, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Battery charger. 2,531,472, Nov. 28.

Sale, William H.: *See*—
Wilson, Otto E., and Sale.

Salinger, Hans W. G.: *See*—
Cawein, Madison, and Salinger.

Samuel, Ludwig, Indianapolis, Ind. Garment hanger. 2,531,894, Nov. 28.

Sanders, Lewis M., Chicago, Ill. Combined push plate and letter drop for full-vision doors. 2,531,703, Nov. 28.

Saunders, David W., East Chicago, Ill., assignor to Inland Steel Company. Method and apparatus for "making bottom" in ingot soaking pits. 2,531,473, Nov. 28.

Savrda, Charles M., Bay Shore, N. Y., assignor, by mesne assignments, to Fish Machinery Corporation, Boston, Mass. Fish filleting machine. 2,532,198, Nov. 28.

Saxton, Harold L., Washington, D. C. Phase shifting circuit. 2,531,474, Nov. 28.

Sceroler, Bartholomew E., Washington, D. C. Non-overflowing toilet bowl. 2,531,475, Nov. 28.

Schantz, Joseph D.: *See*—
Cawein, Madison, and Schantz.

Schefbauer, Rupert J., Jr.: *See*—
Lee, Ernest D., and Schefbauer.

Schlaepfer, Jean, Zurich, Switzerland. Speed change power transmission. 2,531,992, Nov. 28.

Schmeiser, Theodore G., Fresno, Calif. Bearing assembly. 2,531,704, Nov. 28.

Schmitt, Bertram P., Jamaica, N. Y. Gear pump for pressure lubrication purposes. 2,531,861, Nov. 28.

Schneider, Philip, Dunellen, N. J. Tile setting apparatus. 2,531,862, Nov. 28.

Schopmeyer, Clifford S., Lake City, Fla., assignor to the United States of America as represented by the Secretary of Agriculture. Squeeze-bottle atomizer for acid liquids. 2,531,745, Nov. 28.

Schriefer, Robert G., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Ultra high frequency antenna. 2,531,476, Nov. 28.

Schroeder, John F., Los Angeles, Calif. Tripod head. 2,532,122, Nov. 28.

Schuetz, Robert D.: *See*—
Dillehay, Edward R., and Schuetz.

Schultheiss, Carl E., Libertyville, assignor to S & C Electric Company, Chicago, Ill. Fuse tube terminal. 2,531,949, Nov. 28.

Schultz Die Casting Company, assignee: *See*—
Holmes, Burton F., and Heindel.

Schultz, Harold B., assignor to Bendix Aviation Corporation, South Bend, Ind. Master and receiver cylinder construction. 2,531,705, Nov. 28.

Schultz, Lloyd G., New York, N. Y. Coated fuel impregnated block. 2,531,828, Nov. 28.

Schultz, Russel A., assignor to Robbins Engineering Company, Detroit, Mich. Surface finishing fixture. 2,531,921, Nov. 28.

Schumacher, Edwin A., assignor of one half to T. R. Breed, Wichita, Kans. Wrench having cam lever for swinging and locking a pivoted outer jaw. 2,531,746, Nov. 28.

Schutte, Charles F., Buffalo, and H. D. Schutte, Snyder, N. Y. Hammer mill provided with means for detachably mounting the sizing screen. 2,532,262, Nov. 28.

Schutte, Herman D.: *See*—
Schutte, Charles F., and H. D.

Schwalbe, William E.: *See*—
Rosenow, Monroe H., and Schwalbe.

Schwitzer-Cummins Company, assignee: *See*—
Walmsley, David C.

Scinta, Anthony C.: *See*—
Oishei, John R., Horton, and Scinta.

Scott, Milton J., Springfield, and E. F. Jackson, Ludlow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Phenolic resins. 2,531,863, Nov. 28.

Scott & Williams, Incorporated, assignee: *See*—
Hill, Roscoe.

Scully, Frank P., Belmont, assignor to Scully Signal Company, East Cambridge, Mass. Liquid level signaling unit construction. 2,531,950, Nov. 28.

Scully Signal Company, assignee: *See*—
Scully, Frank P.

Seamark, Lewis M. C., Lyme Regis, assignor to Pidco Limited, London, England. Pipe coupling and the like. 2,531,922, Nov. 28.

Sears, Raymond W.: *See*—
Barney, Harold L., Peterson, Potter, and Sears.

Sebouh, Dickran, New York, N. Y. Method and apparatus for producing electrical waves of predetermined formation. 2,532,038, Nov. 28.

Sebouh, Dickran, New York, N. Y. Damper action for tuning fork pianos. 2,532,039, Nov. 28.

Seeley, Lauren E., New Haven, Conn., assignor to The H. B. Smith Company, Incorporated, Westfield, Mass. Sectionally removable and replaceable firebox for furnaces. 2,531,864, Nov. 28.

Seely, Llewellyn M., Cheltenham Township, Montgomery County, assignor to Super-Grip Anchor Bolt Co., Inc., Philadelphia, Pa. Toggle bolt. 2,532,040, Nov. 28.

Serdynsky, Eugene D., assignor to The Dow Chemical Company, Midland, Mich. Thermoplastic compositions with reduced flow viscosity. 2,532,245, Nov. 28.

Servel, Inc., assignee: *See*—
Miller, Charles A.

Seymour, John L., New Rochelle, N. Y. Inhibition of oil well corrosion. 2,531,829, Nov. 28.

Shafer, Orville B., Owego, and J. J. Sullivan, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Electrical system. 2,531,895, Nov. 28.

Shafer, William F., San Francisco, Calif. Pressure operated valve. 2,532,123, Nov. 28.

Shamos, Morris H., and I. S. Lowen, assignors of one-half to W. I. and G. C. Westervelt, New York, N. Y. Interference reducing method of secret communication. 2,531,951, Nov. 28.

Shaw, Gilbert, Middlebury, Vt. One-piece resilient socket for fluorescent lamps. 2,531,533, Nov. 28.

Shaw, Louis E., East Orange, N. J. Variable speed power transmission. 2,532,124, Nov. 28.

Shawinigan Resins Corporation, assignee: *See*—
Bromley, William H., Jr.

Sheley, Wayne H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Coil winding machine. 2,531,534, Nov. 28.

Shell Development Company, assignee: *See*—
Nixon, Alan C., Deal, and Evans.

Sheppard, Edward A., and B. W. Glover, assignors to Westinghouse Brake and Signal Company Limited, London, England. Manufacture of alternating electric current rectifiers. 2,531,535, Nov. 28.

Sheriff-Goslin Co., assignee: *See*—
Goslin, Herbert G.

Shuter, Edwin, Leaside, Ontario, Canada, assignor to Duplex Walls, Inc., Daytona Beach, Fla. Concrete wall machine. 2,532,246, Nov. 28.

Sicha, Walter E.: *See*—
Moore, George L., Sicha, and Wrege.

Side, Frederick W., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Vibrator. 2,532,274, Nov. 28.

Siever, Paul, assignor to Tire-Larm Co., Minneapolis, Minn. Tire deflation indicator. 2,532,199, Nov. 28.

Signeul, Ragnar A. O., Saltsio-Duvnas, Sweden, assignor to Vibro-Plus Corporation, Wood Side, N. Y. Vibrating device for a directed vibratory effect by means of rotatable vibratory members. 2,531,706, Nov. 28.

Silver, David F., Peekskill, N. Y. Flavor bud. 2,531,536, Nov. 28.

Silvey, John O., Bridgeport, Conn., assignor to General Electric Company. High-frequency coupling transformer. 2,532,243, Nov. 28.

Silvey, William F., Goose Creek, assignor to N. T. Breaux, Harris County, Tex. Packer assembly. 2,531,791, Nov. 28.

Simons, Gordon F.: *See*—
Kawecki, Henry C., and Simons.

Simpkiss, John O., Jr., Palmyra, N. J., assignor to Radio Corporation of America. Mask for cathode-ray tubes. 2,531,537, Nov. 28.

Simpson, Albert R., Knoxville, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Voltage pulse generator. 2,531,830, Nov. 28.

Simpson, Herbert S., trustee, assignee: *See*—
McIlvaine, Robert L.

Sinclair Refining Company, assignee: *See*—
Teter, John W.

Singer, Fred J., Rockville Centre, N. Y., and L. J. Stacy, Chester, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective station ringing system. 2,532,125, Nov. 28.

Skoog, Ralph G.: *See*—
Griffin, Joseph F., and Skoog.

Slagh, Harold R.: *See*—
Britton, Edgar C., and Slagh.

Slifkin, Sam C., Binghamton, and H. C. Unkauf, Endicott, assignors to General Aniline & Film Corporation, New York, N. Y. Diazotype photographic material. 2,532,126, Nov. 28.

Smith, A. O., Corporation, assignee: *See*—
Gruetjen, Frederick A.
Heath, William C.
Malke, Sven.

Smith, Aesculapius M., Chicago, Ill. Foot measuring device. 2,531,477, Nov. 28.

Smith, Archie E., Stratford, Conn., assignor to General Electric Company. Tank type vacuum cleaner. 2,532,264, Nov. 28.

Smith, Barton E., Massillon, Ohio. Orthodontal instrument. 2,532,200, Nov. 28.

Smith, Cecil W., Waterman, Ill. Air control unit for oil burners. 2,531,538, Nov. 28.

Smith, Frederick H., Richmond, Ind. Hydro jet sprinkler. 2,531,923, Nov. 28.

Smith, Frederick H., and P. G. Couperus, East Natick, Mass., assignors to the United States of America as represented by the Secretary of the Navy. Battery venting apparatus. 2,531,952, Nov. 28.

Smith, H. B., Company, Incorporated, The, assignee: *See*—
Seeley, Lauren E.

Smith, Harry E., Little Silver, N. J., assignor to Celanese Corporation of America. Apparatus for forming hollow thermoplastic containers by drawing. 2,531,539, Nov. 28.

Smith, Harry E., Little Silver, N. J., assignor to Celanese Corporation of America. Shaping plastic sheet material. 2,531,540, Nov. 28.

Smith, Horace L., Jr., Richmond, Va., assignor to Chain Belt Company, Milwaukee, Wis. Apparatus for sterilizing. 2,531,478, Nov. 28.

Smith, John P., Cranbury, N. J., assignor to Radio Corporation of America. Image transmission. 2,531,831, Nov. 28.

Smith, Louie W., Fort Dodge, Iowa. Tractor operated loading device. 2,531,993, Nov. 28.

Smith, Roscoe B., assignor to Hercules Powder Company, Wilmington, Del. Shipping container. 2,531,792, Nov. 28.

Smith, Waverly Q., and G. W. Struthers, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for handling radioactive solutions. 2,531,953, Nov. 28.

Smyth, John B. S., assignor to The General Electric Company, Limited, London, England. Simmering shutter for high-pressure metal vapor lamps. 2,531,924, Nov. 28.

Snyder, Eric G.: *See*—
Alburn, Harvey E., and Snyder.

Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Crochet, Pierre, and Lambert.

Sohl, William E.: *See*—
Dahlquist, Carl A., Hendricks, and Sohl.

Southern, John A., and S. B. Gogese, U. S. Army. Flow regulation valve. 2,531,479, Nov. 28.

Spahr, James F., Washington, D. C. Shopping bag. 2,531,954, Nov. 28.

Sparklin, Charles H., and G. Sporney, Chicago, Ill., assignors to Birtman Electric Company. Variable drip valve. 2,531,480, Nov. 28.

Sperry Corporation, The, assignee: *See*—
Barrow, Wilmer L., and Mieher.
Johnson, Montgomery H., and Hansen.
Marshall, Robert J.

Spicer, Alvin W., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Sunlight protection for distortable rubber surfaces. 2,531,541, Nov. 28.

Sporney, George: *See*—
Sparklin, Charles H., and Sporney.

Sprague, Owen F., Niagara Falls, N. Y., assignor to The Mathieson Chemical Corporation. Protectively coated alkali containing solids and coating same. 2,532,201, Nov. 28.

Square D Company, assignee: *See*—
Angst, Walter, and Andresen.

Stacy, Leland J.: *See*—
Singer, Fred J., and Stacy.

Stagner, Hamilton R., Cleveland, Ohio. Spraying device. 2,531,650, Nov. 28.

Stain, Charlie, Jr., assignee: *See*—
Stain, Lillian.

Stain, Lillian, assignor of one-eighth to M. O. Stain and one-eighth to C. Stain, Jr., San Antonio, Tex. Slip and blouse ensemble. 2,531,994, Nov. 28.

Stain, Mae O., assignee: *See*—
Stain, Lillian.

Stalford, Frederick D., Walters, Okla. Ice creeper. 2,531,707, Nov. 28.

Standard Refrigeration Company, Inc., assignee: *See*—
Goldberg, Herman M.

Stanley, Lester N.: *See*—
Von Glahn, William H., Stanley, and Hand.

Stanley, Seth F., Glen Ellyn, Ill. Lock guard. 2,531,865, Nov. 28.

Stanolind Oil and Gas Company, assignee: *See*—
Beck, Robert W.

Stanton, William A., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Silver halide developers containing polyethylene glycols. 2,531,832, Nov. 28.

Starr, John A., Riverdale, N. Y., assignor to M. W. Jenkins Sons, Inc., Cedar Grove, N. J. Bristle tufting machine. 2,531,481, Nov. 28.

Starr, John A., Riverdale, N. Y., assignor to M. W. Jenkins Sons, Inc., Cedar Grove, N. J. Making brushes. 2,531,482, Nov. 28.

State Board of Agriculture, The, assignee: *See*—
Dexter, Stephen T.

Stauss, Karl R.: *See*—
Johnson, Curt I., and Stauss.

Stearn, Robert F., Mountainside, N. J. Metal identifier. 2,531,747, Nov. 28.

Steinbachner, Joseph W., Chicago, Ill. Venetian blind cord pull. 2,532,202, Nov. 28.

Stellpflug, August W.: *See*—
Tait, Wilfred E., and Stellpflug.

Stephenson, Thomas W., Detroit, and C. W. Bugbee, Royal Oak, assignors to Ford Motor Company, Dearborn, Mich. Automobile body construction. 2,532,203, Nov. 28.

Sterling Drug Inc., assignee: *See*—
Albertson, Noel F.

Stevenson, William N., Fairland, Okla. Battery post gripping head for electric cables. 2,532,127, Nov. 28.

Stewart-Warner Corporation, assignee: *See*—
Davis, Ernest W.
Jacobs, Gerlad.
Marshall, William A., Jr.
Williams, Lynn A., Jr., and Allen.

Stigsgaard, Svend: *See*—
Möllerhöj, Johannes S., and Stigsgaard.

Still, Elmer G., Livermose, Calif. Fluid propulsion means for aircraft. 2,531,748, Nov. 28.

Stokes, John C., and C. C. Goolsbee, assignors to Reed Roller Bit Company, Houston, Tex. Quick-change slush nozzle. 2,531,749, Nov. 28.

Stone, Cecil C.: *See*—
Bader, Charles L., and Stone.

Stone, Robert H., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind. Spray coating electrode structure. 2,531,542, Nov. 28.

Stover, Orman C., Waterloo, Iowa. Hot material vending machine. 2,532,204, Nov. 28.

Straus, Henry A., Baltimore, Md., assignor to the United States of America as represented by the United States Atomic Energy Commission. Tachometer. 2,531,833, Nov. 28.

Streeter-Amet Company, assignee: *See*—
Jarvis, Kenneth W.

Strike, Louis N., assignee: *See*—
Pearson, Otto H.

Strope, Russell B.: *See*—
Sturges, Frank C., and Strope.

Struthers, George W.: *See*—
Smith, Waverly Q., and Struthers.

Stucker, Oscar, Morocco, Ind. Sander block. 2,531,588, Nov. 28.

Sturges, Frank C., Pittsburgh, and R. B. Strope, Rennerdale, assignors to Pennsylvania Drilling Company, Pittsburgh, Pa. Core drilling apparatus. 2,531,708, Nov. 28.

Stylofede Corporation, assignee: *See*—
Robbins, Jesse J.

Sulek, Steve, San Diego, Calif. Hygienic syringe. 2,531,793, Nov. 28.

Sullivan, John J.: *See*—
Shafer, Orville B., and Sullivan.

Summerbell, Edith M., executrix: *See*—
Summerbell, William, Rhein, and Hoopes.

Summerbell, William, deceased, Washington, D. C., L. J. Rhein, Aberdeen, Md., and O. D. Hoopes, Watervliet, N. Y.; E. M. Summerbell, executrix of said W. Summerbell. Safety for firing mechanisms for cannon using separate loading ammunition. 2,531,483, Nov. 28.

Summers, William J., assignor, by mesne assignments, to Royal Patent Corporation, Chicago, Ill. Coin selector. 2,532,205, Nov. 28.

Super-Grip Anchor Bolt Co., Inc., assignee: *See*—
Seely, Llewellyn M.

Stuphen, Harry D., assignor to R. W. Borrowdale, Chicago, Ill. Container for gears or the like. 2,531,543, Nov. 28.

Sutton, Richard A., Alhambra, Calif., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Hub brake for bicycles and the like. 2,531,750, Nov. 28.

Suwa, Ignas: *See*—
Rubens, Harry S., and Suwa.

Sweet, Floyd H.: *See*—
Miller, Charles E., and Sweet.

Sweetman, George A., Trinidad, Colo. Fishhook. 2,531,995, Nov. 28.

Swift & Company, assignee: *See*—
Lager, Eric W., Prohaska, and Haase.

Swift, William F., Vineyard Haven, Mass. Cribbage board. 2,531,589, Nov. 28.

Sykes, Robert E., Sheboygan, Wis. Displacement pump. 2,532,247, Nov. 28.

Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Speed control system. 2,531,834, Nov. 28.

T-Z Railway Equipment Co., assignee: *See*—
Wilson, Otto E., and Sale.

Tait, Wilfred E., Westport, and A. W. Stellpflug, Weston, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y. Film cassette for cameras. 2,531,651, Nov. 28.

Tait, Wilfred E., and A. W. Stellpflug, New Canaan, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y. Camera. 2,531,652, Nov. 28.

Tait, Wilfred E., and A. W. Stellpflug, New Canaan, Conn., assignors to American Safety Razor Corporation, Brooklyn, N. Y. Film cassette for cameras. 2,531,653, Nov. 28.

Tallmadge, Edgar, deceased, Waukesha, Wis.; E. M. Tallmadge, sole heir of E. Talmadge. Camera back. 2,531,751, Nov. 28.

Tallmadge, Edith M., sole heir: *See*—
Tallmadge, Edgar.

Taub, Abraham, and M. Mattikow, New York, N. Y., assignors to Vodol Company, Chicago, Ill. Ointment base of glycerine with phosphatide and petrolatum. 2,532,206, Nov. 28.

Taylor, Harry, V. E. Hunt, and R. Melcher, Los Angeles, Calif. Screw mounting for platforms or trays. 2,531,925, Nov. 28.

Taylor, Merritt I., Richmond, Va. Honeycomb uncapping machine. 2,531,709, Nov. 28.

Taylor, Robert C.: *See*—
Hunter, James B., Taylor, and Young.

Taylor, Robert L., Akron, Ohio. Auto road sander. 2,531,654, Nov. 28.

Telbizoff, Louis E., Monroe, Mich. Variable area nozzle. 2,531,896, Nov. 28.

Teletype Corporation, assignee: *See*—
Potts, Louis M.

Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Preparing a cracking or reforming feedstock. 2,532,128, Nov. 28.

Tewin Industries, Inc., assignee: *See*—
Higgins, Eric B.

Thacker, Carlisle M.: *See*—
Bell, Richmond T., and Thacker.

Thomas, Richard H., assignor to Economy Pumps, Inc., Hamilton, Ohio. Pumping apparatus for sumps. 2,531,752, Nov. 28.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,531,710, Nov. 28.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,531,711, Nov. 28.

Thompson, Parke H., Kirkwood, assignor, by mesne assignments, to M. L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo. Gas dissolving apparatus. 2,531,655, Nov. 28.

Thompson, Raymond A., assignor to Anderson Coach Company, East Tawas, Mich. Extendible counter assembly. 2,532,041, Nov. 28.

Thonger, Thurland G., Manhasset, N. Y., assignor to Poor and Company, Chicago, Ill. Compromise joint. 2,531,656, Nov. 28.

Thull, John F., Minneapolis, assignor to Brown & Bigelow, St. Paul, Minn. Selectable index. 2,532,129, Nov. 28.

Tilly, Joseph G.: *See*—
Broussard, Rene J., and Tilly.

Tire-Larm Co., assignee: *See*—
Siever, Paul.

Tishler, Max, Rahway, N. J., and J. W. Wellman, Pittsfield, Mass., assignors to Merck & Co., Inc., Rahway, N. J. Preparation of crystalline salts of riboflavin. 2,531,712, Nov. 28.

Titan Tool Company, assignee: *See*—
McKean, Boyd A.

Tobler, Henry, Jr., Yonkers, assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y. Gas generator. 2,531,657, Nov. 28.

Todd, Max E.: *See*—
Nichols, Charles A., Todd, Fletcher, and Keller.

Todd, Seldon P., Amherst, M. L. Myers, Lynchburg, and W. J. Cauwenberg, Piney River, Va., assignors to American Cyanamid Company, New York, N. Y. Production of titanium dioxide pigment from high titanium dioxide content slags. 2,531,926, Nov. 28.

Tollison, Paul L.: *See*—
Roesen, Oscar C., Ricards, and Tollison.

Toney, John R., Los Angeles, Calif. Egg holder. 2,531,955, Nov. 28.

Topham, Laurence E., Wenham, and C. L. Knott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Automatic copying lathe for shoe lasts. 2,531,590, Nov. 28.

Totten, Alfred H., Youngstown, Ohio. Two-stage vapor condenser. 2,531,753, Nov. 28.

Townend, Robert V.: *See*—
Hammarén, Berndt W., Florio, and Townend.
Hammaren, Berndt W., and Townend.

Towner, Orrin W., Anchorage, Ky., assignor to the United States of America as represented by the Secretary of the Navy. Line-tuned oscillator. 2,531,713, Nov. 28.

Tracerlab, Inc., assignee: *See*—
Carlin, Jack R., and Clarke.

Treadwell Construction Company, assignee: *See*—
Davis, Harry A., and Ruhl.

Treglown, George, and C. E. Broders, assignors, by mesne assignments, to Govro-Nelson Company, Detroit, Mich. Automatic feed head. 2,532,207, Nov. 28.

Trico Products Corporation, assignee: *See*—
Oishei, John R., Horton, and Scinta.

Trofimov, Lev A., assignee: *See*—
Canfield, Harry R.

Trojan Powder Company, assignee: *See*—
Wyler, Joseph A.

Turner, Charles H., Webster, Mass., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Window mounting. 2,532,130, Nov. 28.

Turner, Harold S.: *See*—
Goldberg, Alan A., and Turner.

Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Making floating roofs. 2,531,897, Nov. 28.

Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Floating roof with flexible deck and central weights. 2,531,898, Nov. 28.

Ultrasonic Corporation, assignee: *See*—
Horsley, Caperton B.

Union Carbide and Carbon Corporation, assignee: *See*—
Hoaglin, Raymond I., and Hirsh.

Union Special Machine Company, assignee: *See*—
Clausner, Robert E.

Union Switch and Signal Company, The, assignee: *See*—
Breisch, Edgar W., Reed, and Golladay.
Doriot, Kenneth F.

United Shoe Machinery Corporation, assignee: *See*—
Cummings, Roy W., and Burke.
Richardson, George K.
Topham, Laurence E., and Knott.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Boyer, Robert Q.
De Pangher, John.
Hammel, Jay E.
Kirshenbaum, Isidor, and McCaulay.
Simpson, Albert R.
Smith, Waverly Q., and Struthers.
Straus, Henry A.

U. S. Thermo Control Co., assignee: *See*—
Jones, Frederick M.

Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.

Unkauf, Henry C.: *See*—
Slifkin, Sam C., and Unkauf.

Upper, Frederick A., and R. A. Baumgartner, assignors to The Carborundum Company, Niagara Falls, N. Y. Fibrous polishing device. 2,532,248, Nov. 28.

Vallely, Joseph G., Du Bois, Pa. Locomotive draft chamber. 2,532,208, Nov. 28.

Vander Zanden, Clarence J., Banks, Oreg. Retractable rudder. 2,532,042, Nov. 28.

Van Dusen, Frederick J., and W. A. Burke, New York, N. Y. Device for swinging ships. 2,531,484, Nov. 28.

Van Lennep, Gustav J., Washington, D. C. Ice tray. 2,531,714, Nov. 28.

Van Oberbeek, Adrianus J. W. M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mixing detector circuit for detecting frequency-modulated oscillations. 2,531,866, Nov. 28.

Van Voorst, George, assignor to Rutherford Food Corporation, Kansas City, Mo. Tamale forming machine. 2,532,131, Nov. 28.

Västra Sveriges Dentallepot, assignee: *See*—
Gustafson, Gösta K. G.

Vibro-Plus Corporation, assignee: *See*—
Signeul, Ragnar A. O.

Vickers-Armstrongs Limited, assignee: *See*—
Nasmith, John I.

Vodol Company, assignee: *See*—
Taub, Abraham, and Mattikow.

Vogel, Paul R., Chicago, Ill. Cardholder. 2,532,132, Nov. 28.

Voldrich, Frank G., assignee: *See*—
Maly, James E.

Von Glahn, William H., Loudonville, L. N. Stanley, Delmar, and M. A. Hand, Albany, assignors to General Aniline & Film Corporation, New York, N. Y. Diazotypes comprising amine salts of sulfonic acid containing azo components. 2,531,485, Nov. 28.

Voytech, Charles F., Chicago, Ill. Variable-speed transmission. 2,531,996, Nov. 28.

Wade, Clarence B., Malad City, Idaho. Pump. 2,531,997, Nov. 28.

Wade, Willard H.: *See*—
Waldorf, Adrian, and Wade.

Waldorf, Adrian, Arlington, Va., and W. H. Wade, New York, N. Y. Optical lens system. 2,531,956, Nov. 28.

Waletzky, Emanuel, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Coccidiosis control composition. 2,531,754, Nov. 28.

Waletzky, Emanuel, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Composition for controlling coccidiosis. 2,531,755, Nov. 28.

Waletzky, Emanuel, Stamford, and H. W. Marson, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Turkey blackhead control composition. 2,531,756, Nov. 28.

Walker, Doreen, executrix: *See*—
Blumlein, Alan D.

Walker, Joseph F., Westfield, and T. J. Mooney, Perth Amboy, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of new chlorine-containing ethers. 2,532,044, Nov. 28.

Wallace, Betty O., San Francisco, Calif. Clamp paintbrush holder. 2,532,209, Nov. 28.

Wallace, Frederick J., assignor to American Cystoscope Makers, Inc., New York, N. Y. Instrument for retrograde electrosurgical resection. 2,532,043, Nov. 28.

Wallace, George W., Benton, Ill. Carbonization apparatus. 2,531,998, Nov. 28.

Wallace & Tiernan Products Corporation, assignee: *See*—
Pryor, Dean E., and Baker.

Wallerstein Company, Inc., assignee: *See*—
Wallerstein, Leo.

Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Manufacture of crystalline dextrose. 2,531,999, Nov. 28.

Walmsley, David C., Battle Creek, Mich., assignor to Schwitzer-Cummins Company, Indianapolis, Ind. Pump. 2,531,794, Nov. 28.

Walsh, James F., East Cleveland, Ohio. Support for a pipe within a conduit. 2,531,658, Nov. 28.

Walsh, Michael E., Des Moines, Iowa. Fishing gear. 2,532,045, Nov. 28.

Walter, John M., assignor to The G. A. Gray Company, Cincinnati, Ohio. Table clamp for machine tools. 2,532,046, Nov. 28.

Walter, Paul O., Billings, Mont. Balloon wrapper. 2,531,795, Nov. 28.

War, United States of America as represented by the Secretary of, assignee: *See*—
Garand, John C.
Witten, Benjamin.

Ward, Blenkinsop & Company Limited, assignee: *See*—
Goldberg, Alan A., and Turner.

Ward, Mary, assignee: *See*—
Ward, Montague R.

Ward, Montague R., Long Beach, Calif., assignor by decree of distribution to M. Ward. Rock conveyer ship. 2,532,249, Nov. 28.

Warner, Donald T., and O. A. Moe, Minneapolis, Minn., assignors to General Mills, Inc. Alpha-cyano, alpha-alkyl glutaraldehydic acids. 2,532,047, Nov. 28.

Warner, Donald T., and O. A. Moe, Minneapolis, Minn., assignors to General Mills, Inc. Alpha-cyano glutaraldehydic acids. 2,532,048, Nov. 28.

Wasserlein, Henry G., Park Ridge, assignor to Phillips Control Corporation, Chicago, Ill. Packing gland. 2,532,210, Nov. 28.

Waterbury Farrel Foundry and Machine Company, The, assignee: *See*—
Wilcox, Richard L., and Hoyt.

Waters, Laurence W., assignor to Benton Ballou Company, Ltd., Ontario, Calif. Machine for halving and pitting drupaceous fruit. 2,531,927, Nov. 28.

Watson, Frank, Fort Garry, Manitoba, Canada. Mat. 2,531,659, Nov. 28.

Watts, Albert E., St. Laurent, Quebec, Canada. Tube flaring machine with a plurality of aligned work holders and dies. 2,532,250, Nov. 28.

Webb, Elmer J., Newark, N. Y. Longitudinal road joint support. 2,531,899, Nov. 28.

Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Free-wheeling stoker fan. 2,531,796, Nov. 28.

Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Coal conveyer. 2,531,928, Nov. 28.

Weber, Andrew J., Milwaukee, Wis. Orthopedic device. 2,531,486, Nov. 28.

Weber Dental Manufacturing Company, The, assignee: *See*—
Binus, David J., and Maurer.

Weiss, Ernst: *See*—
Heberlein, Georges, and Weiss.

Weiss, Herbert K., Joppa, Md. Regenerative tracking and smoothing device. 2,531,957, Nov. 28.

Welch, Joe N., Walpole, Mass. Spray apparatus with oscillatory discharge means. 2,532,211, Nov. 28.

Wellman, John W.: *See*—
Tishler, Max, and Wellman.

Wellman, Rudyard K., St. Clair Shores, assignor to Wellward Tool Company, Inc., Detroit, Mich. Extensible metallic structure. 2,531,797, Nov. 28.

Wellward Tool Company, Inc., assignee: *See*—
Wellman, Rudyard K.

Wendt, Karl R., Hightstown, N. J., assignor to Radio Corporation of America. Television in natural color. 2,531,544, Nov. 28.

Wenzel, Alfred C.: *See*—
Drescher, Rowland B., and Wenzel.

Werner, Edward A., Atlanta, Ga. Superphosphate manufacturing plant. 2,531,798, Nov. 28.

West, Harold E. W., Allestree, assignor to Rolls-Royce Limited, Derby, England. Cam operated switch contact. 2,532,000, Nov. 28.

Western Electric Company, Incorporated, assignee: *See*—
Holcomb, Arthur L.
Rayburn, Vincent A.

Westervelt, G. C., assignee: *See*—
Shamos, Morris H., and Lowen.

Westervelt, W. I., assignee: *See*—
Shamos, Morris H., and Lowen.

Westinghouse Brake and Signal Company Limited, assignee: *See*—
Sheppard, Edward A., and Glover.

Westinghouse Electric Corporation, assignee: *See*—
Davenport, Charles C.
Longini, Richard L.

Wharam, John J., *See*—
Ivanovich, Milton, and Wharam.

Whidden, William E., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Volume control for telephone ringers. 2,532,133, Nov. 28.

Whinery, Margaret S., Anthony, Kans. Bandage. 2,531,757, Nov. 28.

White, Thomas A., Jackson Heights, assignor to National Starch Products Inc., New York, N. Y. Manufacture of animal glue jellies. 2,531,715, Nov. 28.

Whiteing, Edward L., assignee: *See*—
Petry, Ray C.

Whitmire, Homer E., Clayton, and R. J. Knepper, Kirkwood, assignors to Whitmire Research Laboratories, Inc., St. Louis, Mo. Spraying apparatus for treating livestock. 2,532,251, Nov. 28.

Whitmire Research Laboratories, Inc., assignee: *See*—
Whitmire, Homer E., and Knepper.

Whitney Blake Company, The, assignee: *See*—
Whyland, Joseph B.

Whittaker, Edward G., New Rochelle, N. Y., assignor to Anselm and Company, Inc., San Francisco, Calif. Textile drafting and spinning. 2,532,275, Nov. 28.

Whittaker, James L., Princeton, N. J., assignor to Radio Corporation of America. Selectively illuminated push-buttons for radio receiver tuners. 2,532,212, Nov. 28.

Whittier, Sidney B.: *See*—
Fairbank, Murry N., and Whittier.

Whyland, Joseph B., assignor to The Whitney Blake Company, Hamden, Conn. Heater cord. 2,532,135, Nov. 28.

Wickes Bros., assignee: *See*—
Floeter, Frederick S.

Wiedman, George P., North Tonawanda, N. Y. Wall receptacle. 2,532,134, Nov. 28.

Wilcox, Richard L., and H. L. Hoyt, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Mechanical movement. 2,532,213, Nov. 28.

Wilkening Manufacturing Company, assignee: *See*—
Pien, Hsia-Si.

Willenborg, Walter J., Weehawken, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Protective apparatus for combustion systems. 2,532,214, Nov. 28.

Williams Louis A., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Cathode structure. 2,532,215, Nov. 28.

Williams, Lynn A., Jr., and A. C. Allen, assignors to Stewart-Warner Corporation, Chicago, Ill. Protective device for fuel lines or the like. 2,531,958, Nov. 28.

Williams, Norman, Stratford, Conn. Insecticide combapplicator. 2,532,001, Nov. 28.

Williamson, Marshall I., New Haven, Conn. Display container. 2,532,216, Nov. 28.

Willis, Elijah J., assignor of one-half to A. B. Cooper, Morehead City, N. C. Toy pistol. 2,531,591, Nov. 28.

Willman, Walter, St. Petersburg, Fla., assignor to James Heddon's Sons, Dowagiac, Mich. Fishing reel. 2,531,929, Nov. 28.

Wilson, Evan G., Liverpool, England. Rotary liquid treating drum. 2,532,002, Nov. 28.

Wilson, Otto E., Peru, Ind., and W. H. Sale, Sanston, Va., assignors to T-Z Railway Equipment Co., Chicago, Ill. Pin retainer for draft keys. 2,531,758, Nov. 28.

Wilson, William E., assignee: *See*—
Lyon, Joe M., Jr.

Winternitz, Paul F., assignor, by mesne assignments, to Allied Process Corporation, New York, N. Y. Direct production of lithium borohydride. 2,532,217, Nov. 28.

Wisman, Franklin O.: *See*—
Reek, Royal J., and Wisman.

Witco Chemical Company, assignee: *See*—
Packer, Howard.

Wittcoff, Harold: *See*—
Roach, John R., and Witcoff.

Witten, Benjamin, Baltimore, Md., assignor to the United States of America as represented by the Secretary of War. Electrolytic production of cacodyl. 2,531,487, Nov. 28.

Wittke, Emil P., St. Helens, Oreg. Mold for making hollow concrete blocks. 2,532,049, Nov. 28.

Wolf, Alfred A., Dallastown, Pa. Backlash compensator. 2,531,488, Nov. 28.

Wolf, Andrew J., H. F. Moller, and W. M. Crook, assignors to Reed Roller Bit Company, Houston, Tex. Valve. 2,531,759, Nov. 28.

Wolf, Marietta T., Willow Grove, Pa. Infant's garment. 2,531,716, Nov. 28.

Wood, Frederick Y., Norfolk, Va. Hand tool for crimping tube ends. 2,531,489, Nov. 28.

Wood Newspaper Machinery Corporation, assignee: *See*—
Roesen, Oscar C., Ricards, and Tollison.

Woodard, Arthur, and I. W. Lewine, New York, N. Y. Roller skate and carrier device therefor. 2,531,959, Nov. 28.

Woodruff, Virgil R.: *See*—
Burns, Edgar F., Woodruff, and Leonard.

Woodward, Eric R., New York, N. Y., assignor to The Mathieson Chemical Corporation. Self-cleaning capillary tube type flow-meter. 2,532,218, Nov. 28.

Woolsey, Sterling W., Corpus Christi, Tex. Jet propelled rotary action submarine mud gun. 2,531,760, Nov. 28.

Woolslayer, Homer J., and C. Jenkins, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa. Well drilling structure provided with a drill pipe hoist. 2,531,930, Nov. 28.

Works, Madden T.: *See*—
Allen, Herbert, and Works.

Wrege, Robert B.: *See*—
Moore, George L., Sicha, and Wrege.

Wright, Charles D.: *See*—
Collins, Henry M., and Wright.

Wurdinger, Lawrence J., Mount Angel, Oreg. Berry vine holder. 2,531,867, Nov. 28.

Wyer, John M., Perton, Pattingham, near Wolverhampton, England. Means for use in applying alternatively, air pressure and suction to a given point. 2,532,003, Nov. 28.

Wyeth Incorporated, assignee: *See*—
Alburn, Harvey E., and Snyder.
Bruce, William F.

Wyler, Joseph A., Allentown, Pa., assignor to Trojan Powder Company. Making pentaerythritol. 2,532,252, Nov. 28.

Wyler, Joseph A., Allentown, Pa., assignor to Trojan Powder Company. Separation of pentaerythritol and formic acid. 2,532,253, Nov. 28.

Yant, William P., Murraysville, and H. N. Cotabish, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Method and apparatus for gas analysis. 2,531,592, Nov. 28.

Young, William S., *See*—
Hunter, James B., Taylor, and Young.

Zahn, Otto E., assignor to America Wheelabrator & Equipment Corporation, Mishawaka, Ind. Graining or abrading lithographic plates or the like by centrifugal blast of wet slurry. 2,532,136, Nov. 28.

Zeiss, Harold H., Fairlawn-Radburn, N. J., assignor, by mesne assignments, to Pierce Laboratory, Inc., New York, N. Y. Diphenyl-t-6-hydroxydehydroabietinol. 2,532,137, Nov. 28.

Zeitlin, Edward J., Brooklyn, N. Y. Temperature control system for heating units. 2,531,593, Nov. 28.

Zenith Radio Corporation, assignee: *See*—
Ellett, Alexander.
Kalmus, Henry P.

Zepp, William J., Yorktowne Village, Md. Child's vehicle and parcel carrier. 2,532,004, Nov. 28.

Zickrick, Lyall, Schenectady, N. Y., assignor to General Electric Company. Thermal overload protective relay using indium. 2,532,265, Nov. 28.

Ziegler, Arthur W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Fabrication of piezoelectric crystal units. 2,531,660, Nov. 28.

Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car door operating mechanism for several size door openings. 2,531,960, Nov. 28.

Zimmer, Myron J., Wood Dale, assignor to Ecko Products Company, Chicago, Ill. Pressure cooker. 2,531,717, Nov. 28.

Zucrow, Maurice J., Altadena, assignor to Aerojet Engineering Corporation, Azusa, Calif. Thermal jet and rocket motor propulsion system. 2,531,761, Nov. 28.

Zumwalt, Arlie L., Tulsa, Okla. Support with centering device. 2,531,799, Nov. 28.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air and gas supply means for burners, Primary. H. M Reeves. Re. 23,299, Nov. 28.
Cable reel. J. J. Slomer. Re. 23,300, Nov. 28.
Drive mechanism, Washing machine. V. E. Dunn. Re. 23,296, Nov. 28.
Sheetlike light-polarizing complex of iodine and a polyvinyl compound with protective surface boric acid-polyvinyl compound complex. M. Hyman, Jr., and C. D. West. Re. 23,297, Nov. 28.
Swing joint. R. O. Monroe. Re. 23,298, Nov. 28.

LIST OF PLANT INVENTIONS

Plum tree. E. Stark. 995, Nov. 28.
Rose plant. E. S. Boerner. 992, Nov. 28.
Rose plant. H. C. Swim. 994, Nov. 28.
Strawberry plant. M. Hagerstrom. 993, Nov. 28.

LIST OF DESIGN INVENTIONS

Atomizer. G. Carleton. 160,996, Nov. 28.
Automobile body. J. J. Chika. 161,000–1, Nov. 28.
Backsplasher, Electric range. R. C. Sandin. 161,055, Nov. 28.
Bathing suit. F. Torok. 161,068–70, Nov. 28.
Box. T. R. Stacey. 161,062, Nov. 28.
Box for portable tools and accessories. E. F. Thomson. 161,067, Nov. 28.
Box, Novelty covered. D. Chase. 160,999, Nov. 28.
Bracelet or similar article. A. Philippe. 161,049–50, Nov. 28.
Brooch or similar article, Separable. A. Philippe. 161,043, Nov. 28.
Cabinet, Brush. S. L. Gerson. 161,014, Nov. 28.
Carrier, Fish lure. L. B. Stratman and F. W. Newton. 161,065, Nov. 28.
Casing for a portable rubbing machine, Motor. R. J. Champayne. 160,997, Nov. 28.
Chain or similar article, Vest. J. W. Wolfenden. 161,074, Nov. 28.
Cigarette dispenser and ash tray, Combination. M. H. Colman. 161,003, Nov. 28.
Circulator, Air. F. Se Bastian. 161,058, Nov. 28.
Clippers or similar article, Hair. R. J. Enstrom and O. R. Sandstrom. 161,009, Nov. 28.
Compact or similar article. P. E. Flato. 161,011, Nov. 28.
Container, Disinfecting garbage. E. Levin. 161,028, Nov. 28.
Coupling for pipes or the like. L. S. Hamer. 161,020, Nov. 28.
Dispenser, Combination chewing gum and coin. J. W. Ament. 160,988, Nov. 28.
Dispenser, Paper. S. J. Rutka. 161,054, Nov. 28.
Dispenser, Strip. S. White. 161,072, Nov. 28.
Dispensing head for frozen condiment. C. Erickson and E. Spellman. 161,010, Nov. 28.
Display device, Illuminable. L. H. Foster. 161,012, Nov. 28.
Dungarees, Lady's. M. M. Schwab. 161,057, Nov. 28.
Earring or similar article. A. Philippe. 161,040–2, Nov. 28.
End cap and sleeve for slat for screens, Combined. R. Gardner and H. Bernzott. 161,013, Nov. 28.
Garter grip. F. S. Clark. 161,002, Nov. 28.
Grille, Ventilator. R. V. Pfautsch. 161,037, Nov. 28.
Gun sight. H. A. Williams. 161,073, Nov. 28.
Hammer. M. Marthinsen. 161,034, Nov. 28.
Handle, Automotive vehicle inside door. A. J. Gonas. 161,018, Nov. 28.
Handle, Automotive vehicle window regulator. A. J. Gonas. 161,019, Nov. 28.
Handle, Automotive vehicle window regulator. G. M. Haviland. 161,022, Nov. 28.
Holder, Combined bobby pin and perfume. J. Weiss. 161,071, Nov. 28.
Holder, Condiment container. E. R. Gillette. 161,015, Nov. 28.
Holder for cosmetic preparations or the like, Multiple. J. Norriss. 161,036, Nov. 28.
Holder, Lipstick. G. Piccoli. 161,051, Nov. 28.
Hook, Interlocking. G. T. Brummel. 160,994, Nov. 28.
Housing, Rotary mower. J. G. Doyle. 161,008, Nov. 28.
Jig saw and sander, Combined electrical. E. L. Hoffmann and A. L. Atkins. 161,025, Nov. 28.
Light fixture, plant holder, and the like, Combination. W. L. Hollander. 161,026, Nov. 28.
Machine for cutting paper or the like. W. Sargent. 161,056, Nov. 28.
Mirror or similar article, Automobile rearview. G. C. Knight. 161,027, Nov. 28.
Mirrors and mounting support therefor, Combined flexibly connected front and rear view. M. F. Busa. 160,995, Nov. 28.
Napkin, Paper. W. J. Boucher. 160,993, Nov. 28.
Necklace or similar article. A. Philippe. 161,038–9, Nov. 28.
Necklace or similar article. A. Philippe. 161,044–8, Nov. 28.
Ornament, Christmas tree decorative. K. W. Herman. 161,023, Nov. 28.
Ornament, Hood. H. V. Lindbergh and H. F. Weissinger. 161,029, Nov. 28.
Ornament or similar article for motor vehicles, Hood. J. Sneed. 161,061, Nov. 28.
Oscillator, Foot massage. C. Manas. 161,032, Nov. 28.
Pedal control. E. H. Alkire. 160,987, Nov. 28.
Phonograph needle. L. J. Andres. 160,989, Nov. 28.
Plant holder and bracket therefor, Combined. O. Charette. 160,998, Nov. 28.
Plate or similar article. G. Rudd. 161,053, Nov. 28.
Ring and cigarette holder, Combination. S. Marcus. 161,033, Nov. 28.
Retainer, Key. J. R. Shevin and D. T. Shane. 161,059, Nov. 28.
Service station, Automobile. J. J. Sullivan. 161,066, Nov. 28.
Shoe sole. B. H. MacLeod. 161,031, Nov. 28.
Signal device, Audible. S. M. Dover. 161,007, Nov. 28.
Slip. S. Godfried. 161,016, Nov. 28.
Stocking or similar article, Lady's. I. Belaief. 160,992, Nov. 28.
Switch post, Key actuated. B. A. Andrews. 160,990, Nov. 28.
Terminal, Electrical binding-post. H. C. Littlejohn. 161,030, Nov. 28.
Textile fabric or similar flat surface material. W. A. Harrell. 161,021, Nov. 28.
Tie slide. A. Corpora. 161,005, Nov. 28.
Tool, Table lobster. E. F. Cook. 161,004, Nov. 28.
Toy accordian. N. T. Baldanza. 160,991, Nov. 28.
Toy, Musical. J. F. Goetz. 161,017, Nov. 28.
Transport truck and trailer, Combined automobile. C. B. Stevens. 161,063, Nov. 28.
Tray, Bottle holding. R. W. Stevenson. 161,064, Nov. 28.
Truck, Automobile. J. J. Powers. 161,052, Nov. 28.
Vehicle, Automotive. I. Herpin. 161,024, Nov. 28.
Vehicle or similar article, Motor. J. J. Skelley. 161,060, Nov. 28.
Waffle iron or similar article. D. F. McCarron. 161,035, Nov. 28.
Weight, Wheel balance. J. R. Dailey. 161,006, Nov. 28.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF NOVEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory for converting a vehicle seat into a play pen or child's bed. L. R. Biasell. 2,532,007, Nov. 28.
Accounting device, Automatic. A. E. Hague and A. E. Joel, Jr. 2,531,622, Nov. 28.
Accumulator. R. J. Breit. 2,532,143, Nov. 28.
Accumulator valve. R. T. Burnett. 2,531,669, Nov. 28.
Acoustic device. C. B. Horsley. 2,532,229, Nov. 28.
Actuating mechanism for embossing machines, Record controlled. C. J. Fitch. 2,531,876, Nov. 28.
Adapter. L. C. Carlson. 2,531,840, Nov. 28.
Adjustable typewriter support. W. F. Herring. 2,531,880, Nov. 28.
Adjustment for stringed musical instruments, Multiple. H. Hise and J. B. Cousineau. 2,531,569, Nov. 28.
Administering repeated injections, Method of and apparatus for. B. J. Brent. 2,531,667, Nov. 28.
Aerial, Television. A. R. Atchison. 2,532,138, Nov. 28.
Agitator for silos and the like, Mechanical unloading. S. Maike. 2,532,238, Nov. 28.
Aiming device, Hip nail. H. H. Hopkins. 2,531,734, Nov. 28.
Airbrush, Multiple fluid. J. A. Paasche. 2,532,187, Nov. 28.
Air conditioning system. D. E. Dasher. 2,532,012, Nov. 28.
Aircraft, stabilized and positioned, light apparatus for aerial navigation. J. T. King. 2,532,104, Nov. 28.
Air inlet arrangement for combustion chamber flame tubes. R. J. Fyffe. 2,531,810, Nov. 28.
Air outlet device. F. Honerkamp. 2,531,733, Nov. 28.
Airplane, Roadable. R. E. Fulton, Jr. 2,532,159, Nov. 28.
Alarm for strongboxes. E. B. Davis. 2,531,842, Nov. 28.
Alkali metal di-salts of 2:3 hydroxynaphthoic acid, Preparation of. E. B. Higgins. 2,531,380, Nov. 28.
Alkyd foam resins, Unsaturated. J. B. Ott. 2,532,240, Nov. 28.
Alloys, Nickel steel. H. D. Newell. 2,532,117, Nov. 28.
Alpha-acylamino-alpha-substituted-acetic acids, Preparation of. N. F. Albertson. 2,531,595, Nov. 28.
Alpha-cyano, alpha-alkyd glutaraldehydic acids. D. T. Warner and O. A. Moe. 2,532,047, Nov. 28.
Alpha-cyano glutaraldehydic acids. D. T. Warner and O. A. Moe. 2,532,048, Nov. 28.
Aluminum thallium bearing. F. R. Hensel and E. I. Larsen. 2,531,910, Nov. 28.
Ammonium beryllium fluoride, Production of. H. C. Kawecki and G. F. Simons. 2,532,102, Nov. 28.
Amplifier, Direct coupled balanced. R. G. Nye. 2,531,458, Nov. 28.
Amplifier, Level-stabilized modulated carrier. M. L. Doelz. 2,531,935, Nov. 28.
Animal glue jellies, Manufacture of. T. A. White. 2,531,715, Nov. 28.
Ankle and high splice structure in full-fashioned stocking and making the same. W. Nebel. 2,532,071, Nov. 28.
Antenna structure, Directive. W. L. Barrow and W. W. Mieher. 2,531,455, Nov. 28.
Antenna structure, Directive. R. J. Marshall. 2,531,454, Nov. 28.
Antenna system. D. G. C. Luck. 2,532,176, Nov. 28.
Antenna system, Broad band. L. Himmel. 2,531,432, Nov. 28.
Antenna, Television. F. R. and R. R. Gonsett. 2,532,094, Nov. 28.
Antenna, Ultra high frequency. R. G. Schriefer. 2,531,476, Nov. 28.
Apparatus for combining finely divided substances. H. M. Collins and C. D. Wright. 2,532,224, Nov. 28.
Apparatus for continuously coating wire. F. C. Elder and W. H. Johns. 2,531,561, Nov. 28.
Apparatus for continuously vulcanizing rubber strip material. B. W. Benbow. 2,532,080, Nov. 28.
Apparatus for control of typewriters. C. T. Jackson. 2,531,881, Nov. 28.
Apparatus for converting bundles of continuous filaments into a sliver or roving of staple fiber. C. Rhodes and I. N. McCart. 2,531,787, Nov. 28.
Apparatus for cultivation of plants. P. C. McLemore. 2,531,884, Nov. 28.
Apparatus for determining the moisture content of vegetable products. S. T. Dexter. 2,531,673, Nov. 28.
Apparatus for drying webs. B. Offen. 2,532,032, Nov. 28.
Apparatus for flame cultivation. A. W. Peck. 2,531,741, Nov. 28.
Apparatus for forming hollow thermoplastic containers by drawing. H. E. Smith. 2,531,539, Nov. 28.
Apparatus for handling radioactive solutions. W. Q. Smith and G. W. Struthers. 2,531,953, Nov. 28.
Apparatus for heating canned foods. R. L. Davis. 2,532,014, Nov. 28.
Apparatus for manufacture of precision glass tubing. C. E. Campbell. 2,531,394, Nov. 28.
Apparatus for molding plastic material. M. E. and H. E. Nye. 2,531,888, Nov. 28.
Apparatus for releasing locking mechanism of vault doors. H. L. Henkel. 2,531,848, Nov. 28.
Apparatus for sterilizing. H. L. Smith, Jr. 2,531,478, Nov. 28.
Apparatus for transferring fluids. J. B. Hunter, R. C. Taylor, and W. S. Young. 2,531,436, Nov. 28.
Apparatus for turning glass sheets. E. C. Oberstar 2,531,640, Nov. 28.
Apparatus for washing oils with an immiscible wash liquid. C. E. Ayres. 2,531,547, Nov. 28.
Application of drilling fluids. E. A. Hauser. 2,531,812, Nov. 28.
Applicator, Eyelash. L. Lenz. 2,532,110, Nov. 28.
Arrangement in compressed air circuit breakers. H. Forwald. 2,531,617, Nov. 28.
Arrow and arrowhead, Hunting. H. T. Maager. 2,531,635, Nov. 28.
Article-forming system. R. W. Cummings and G. F. C. Burke. 2,531,555, Nov. 28.
Artificial lure. J. M. Marsico. 2,531,738, Nov. 28.
Artificial tooth and securing same. W. Kleiner. 2,531,517, Nov. 28.
Aryl esters of 4-chlorobenzene sulfonic acid. E. C. Britton and H. R. Slagh. 2,532,222, Nov. 28.
Ash collector, Suction. M. Raminger. 2,531,920, Nov. 28.
Aspirator, Surgical. S. A. Henderson. 2,531,730, Nov. 28.
Atomizer for acid liquids, Squeeze-bottle. C. S. Schopmeyer. 2,531,745, Nov. 28.
Attachment for flexible rotary disk. S. M. Kenerson. 2,531,775, Nov. 28.
Attachment for fur sewing machines. E. F. Burns, V. R. Woodruff, and A. R. Leonard, Jr. 2,531,766, Nov. 28.
Attachment of key opener to can ends or like container parts. G. C. Hook. 2,532,166, Nov. 28.
Automatic apparatus for drying noodles and similar dough products by means of a cycle comprising progressive recovery and rest phases. L. Bettini. 2,531,870, Nov. 28.
Automobile body construction. T. W. Stephenson and C. W. Bugbee. 2,532,203, Nov. 28.
Automatic drain trap. F. J. Rodwell. 2,531,991, Nov. 28.
Automatic return flow control valve. H. E. La Bour. 2,532,067, Nov. 28.
Awning, Boat. M. W. Barr. 2,531,836, Nov. 28.
Axle construction for potato planters, Adjustable. R. R. Raney and E. L. Faust. 2,532,076, Nov. 28.
Bag: *See*—
  Shopping bag.
Bagging machine with pivotally mounted garment supporter and latch means therefor, Garment. L. M. Jensen. 2,532,232, Nov. 28.
Balance weight positioner. F. A. Gruetjen. 2,532,225, Nov. 28.
Balanced fluid clutch. A. D. Robbins. 2,531,744, Nov. 28.
Balancing means for rotating wing. H. T. Avery. 2,531,598, Nov. 28.
Ball game apparatus, Electrical. J. M. Hobbs. 2,531,979, Nov. 28.
Bandage. M. S. Whinery. 2,531,757, Nov. 28.
Bar: *See*—
  Orthopedic bar.
Barbecue, Portable. E. H. Jackson. 2,531,684, Nov. 28.
Battery charger. A. M. Salazar. 2,531,472, Nov. 28.
Beacon reception system, Homing. D. D. Grieg. 2,531,425, Nov. 28.
Beacon system, Radio. N. Marchand. 2,531,453, Nov. 28.
Bearing: *See*—
  Aluminum thallium bearing.
Bearing assembly. T. G. Schmeiser. 2,531,704, Nov. 28.
Berry vine holder. L. J. Wurdinger. 2,531,867, Nov. 28.
Biguanide compounds. F. H. S. Curd and F. L. Rose. 2,531,404, Nov. 28.
Biguanide derivatives. F. H. S. Curd and F. L. Rose. 2,531,405, Nov. 28.
Billfold construction permitting releasable combination therewith of a multiple pass case or the like. D. J. Broughton. 2,531,605, Nov. 28.
Bis-(carboxydiphenylamine)-sulfides and sulfones. A. A. Goldberg and H. S. Turner. 2,531,423, Nov. 28.
Blade for trimming book blocks, Disk. F. J. Cashin. 2,531,841, Nov. 28.
Block: *See*—
  Coated fuel impregnated Sander block.
  block.
Blocking machine, Ribbing. A. G. Kohle and T. A. Greenley. 2,531,852, Nov. 28.

Blower for compressed combustible gases. H. Pfenninger. 2,532,065, Nov. 28.
Blower having a swinging feed trough, Ensilage. E. F. Huddle. 2,532,064, Nov. 28.
Board: *See*—
Cribbage board.
Bolt and nut fixture. R. T. Reese. 2,531,892, Nov. 28.
Bolt, Toggle. L. M. Seely. 2,532,040, Nov. 28.
Bomb, Insecticide. G. Brown. 2,532,144, Nov. 28.
Boot, Ski. J. E. Andre. 2,531,763, Nov. 28.
Boring machine, Pipe. B. Guyer. 2,531,909, Nov. 28.
Bowl, No-overflowing toilet. B. E. Sceroler. 2,531,475, Nov. 28.
Bowling pin handling apparatus. E. Hedenskoog. 2,531,429, Nov. 28.
Box: *See*—
Ornamental box.
Box and cover therefor, Cooling. E. H. Gott. 2,531,729, Nov. 28.
Bracket for remote control units. D. C. Rockola. 2,531,645, Nov. 28.
Brake: *See*—
Internal radially acting hydraulic wheel brake.
Brake drum with noise silencer. J. F. Chapman and E. Latshaw. 2,532,086, Nov. 28.
Brake for bicycles and the like, Hub. R. A. Sutton. 2,531,750, Nov. 28.
Brake for capacitor winding machines. S. Kaim. 2,531,913, Nov. 28.
Brake for textile mill spindles. C. E. Miller and F. H. Sweet. 2,532,261, Nov. 28.
Brake operating or similar mechanism. A. Orschein. 2,531,740, Nov. 28.
Brake with drive release. E. C. Deal. 2,531,970, Nov. 28.
Brick, blocks, or like elements, Refractory. M. Pirani and A. Hilliard. 2,532,190, Nov. 28.
Bridge arrangement, Electrical. A. D. Blumlein. 2,532,142, Nov. 28.
Brushes, Making. J. A. Starr. 2,531,482, Nov. 28.
Buckle for parachute harness, Cross-chest. R. D. Junker. 2,531,442, Nov. 28.
Buffer. G. E. Dath. 2,532,013, Nov. 28.
Buncher for baled hay. O. J. De Wall. 2,531,560, Nov. 28.
Buttonhole cutter. N. M. Gilliam. 2,532,160, Nov. 28.
Cabinet having separate deposit and collection compartments. S. S. Lane. 2,531,444, Nov. 28.
Cable: *See*—
Expansible sheath electric power cable.
Thin paper insulated electric cable.
Calcium firmed frozen apple slices, Preparing. C. H. Hills. 2,531,431, Nov. 28.
Calculator, Light and sun position. D. R. E. Brown. 2,531,932, Nov. 28.
Camera. W. E. Tait and A. W. Stellpflug. 2,531,652, Nov. 28.
Camera back. E. Tallmadge. 2,531,751, Nov. 28.
Camera, Photographic. R. Mosen. 2,531,783, Nov. 28.
Cap for gas tanks, Safety. C. E. O'Neal, Jr. 2,531,860, Nov. 28.
Capacitors, Making. K. H. Brandt. 2,531,389, Nov. 28.
Carbonization apparatus. G. W. Wallace. 2,531,998, Nov. 28.
Carburetor. O. A. Arvastsson. 2,531,661, Nov. 28.
Cardcase for meter readers. J. W. Bickel. 2,532,053, Nov. 28.
Card for sequence sorting. A. A. Rembold. 2,531,786, Nov. 28.
Cardholder. P. R. Vogel. 2,532,132, Nov. 28.
Carpet sweeper brush and wheel pressure adjusting mechanism. P. Heftler. 2,531,430, Nov. 28.
Carriage return mechanism for record controlled embossing machines. C. J. Fitch. 2,531,877, Nov. 28.
Cart, Collapsible. A. J. Marcouiller. 2,531,856, Nov. 28.
Carton, Tray type collapsible. C. H. Goodyear. 2,531,507, Nov. 28.
Carton, Ventilated cardboard. N. Carter. 2,532,085, Nov. 28.
Case: *See*—
Gun case.
Shipping case.
Case for fishing reels. C. C. Reynolds. 2,532,119, Nov. 28.
Casting concrete building elements. J. E. McClellan and J. H. MacDonald. 2,531,576, Nov. 28.
Catfish skinning and cleaning clamp. B. J. Anderson. 2,531,546, Nov. 28.
Cathode structure. L. A. Williams. 2,532,215, Nov. 28.
Cementing device, Well. F. H. Lee. 2,531,942, Nov. 28.
Center. J. R. Fish. 2,531,809, Nov. 28.
Chain: *See*—
Extension key chain.
Chair: *See*—
Resiliently mounted reclining chair.
Channel selector, Compensated. W. D. Houghton. 2,531,817, Nov. 28.
Checker for furnaces. F. H. Mackensen. 2,532,112, Nov. 28.
Chicken nest, Sanitary. J. W. Peterson. 2,531,584, Nov. 28.
Chlorine-containing ethers, Production of new. J. F. Walker and T. J. Mooney. 2,532,044, Nov. 28.
Ciphering unit, Mechanical. L. M. Potts. 2,531,528, Nov. 28.
Circuit: *See*—
Phase shifting circuit.
Ignition circuit.
Gated trigger demodulating circuit.
Circuit for detecting frequency-modulated oscillations, Mixing detector. A. J. W. M. van Oberbeek. 2,531,866, Nov. 28.
Circuit for radio receivers, Control. R. C. Ferrar. 2,531,416, Nov. 28.
Circuit interrupter, Electric. G. F. Lincks. 2,532,258–9, Nov. 28.
Circuit with loudspeaker, Substation. P. Kaelin. 2,531,883, Nov. 28.
Circuits, Hybrid branching. A. G. Fox. 2,531,419, Nov. 28.
Circuits, Variable frequency selective. J. D. Holland and D. D. Robinson. 2,531,434, Nov. 28.
Circuits, Weld timing. R. L. Longini. 2,532,111, Nov. 28.
Clamp: *See*—
Catfish skinning and cleaning clamp.
Clamp for machine tools, Table. J. M. Walter. 2,532,046, Nov. 28.
Clamp paintbrush holder. B. O. Wallace. 2,532,209, Nov. 28.
Clay and producing same, Modified gel-forming. E. A. Hauser. 2,531,427, Nov. 28.
Cleaner: *See*—
Tank type vacuum cleaner.
Windshield cleaner.
Cleansing apparatus. N. Cordis. 2,532,088, Nov. 28.
Clip. W. R. Gunderson. 2,532,020, Nov. 28.
Closing fiber containers with a lined closure, Method and mechanism for. E. W. Lager, J. J. Prohaska, and H. E. Haase. 2,531,914, Nov. 28.
Clutch: *See*—
Balanced fluid clutch.
Clutch and brake mechanism for fishing reels. L. E. Butzman, Sr. 2,531,610, Nov. 28.
Clutch and control mechanism therefor. L. J. Andres. 2,532,266, Nov. 28.
Clutch and/or brake control, Vacuum-actuated. T. M. Robertson. 2,532,194, Nov. 28.
Clutch construction, Steering column gearshift. M. Jovanovich and J. J. Wharam. 2,532,170, Nov. 28.
Clutch control mechanism. T. H. Thomas. 2,531,710–11, Nov. 28.
Clutch mechanism. W. B. Engler. 2,531,771, Nov. 28.
Coagulating a latex of a sulfur dioxide resin. W. W. Crouch and L. D. Jurrens. 2,531,403, Nov. 28.
Coated alkali containing solids and coating same, Protectively. O. F. Sprague. 2,532,201, Nov. 28.
Coated fuel impregnated block. L. G. Schultz. 2,531,828, Nov. 28.
Coating compositions, Polyurethan. D. S. Breslow. 2,531,392, Nov. 28.
Coating paper. W. H. Barrett and B. K. Asdell. 2,532,140, Nov. 28.
Coccidiosis control composition. E. Waletzky. 2,531,754, Nov. 28.
Coffee, Packaged. L. H. Abrahams. 2,531,594, Nov. 28.
Coil construction. N. McKinney. 2,531,916, Nov. 28.
Coin selector. W. J. Summers. 2,532,205, Nov. 28.
Collar apparatus for cementing casings in wells. F. H. Lee. 2,531,943, Nov. 28.
Color television apparatus. H. J. Murray. 2,531,823, Nov. 28.
Color television system. A. N. Goldsmith. 2,531,508, Nov. 28.
Communication system employing pulse code modulation. W. M. Goodall. 2,531,846, Nov. 28.
Communication system, Time sharing duplex. R. B. Hoffman and R. C. Ferrar. 2,531,433, Nov. 28.
Compartment and collapsible frame for same, Portable. E. C. Gledhill. 2,531,678, Nov. 28.
Compensating means for displacement meters. A. L. Grisé. 2,531,620, Nov. 28.
Compensator, Backlash. A. A. Wolf. 2,531,488, Nov. 28.
Composite material. W. C. Arkell. 2,531,931, Nov. 28.
Composition for controlling coccidiosis. E. Waletzky. 2,531,755, Nov. 28.
Compressing vapors, Method of and apparatus for. C. D. Chase. 2,532,267, Nov. 28.
Compromise joint. T. G. Thonger. 2,531,656, Nov. 28.
Computing device, Interest. E. F. Laurin. 2,531,633, Nov. 28.
Concrete wall machine. E. Shuter. 2,532,246, Nov. 28.
Condensates of rosin with unsaturated carbocyclic compounds. A. L. Rummelsburg. 2,532,120, Nov. 28.
Condenser: *See*—
Two-stage vapor condenser.
Conditioning chocolate and the like, Method of and apparatus for. F. W. Greer. 2,531,773, Nov. 28.
Conditioning clay for manufacture of aluminum sulfate. B. W. Hammarén, P. A. Florio, and R. V. Townend. 2,531,978, Nov. 28.
Connector: *See*—
Solderless connector.
Container: *See*—
Display container.
Shipping container.
Container for gears or the like. H. D. Sutphen. 2,531,543, Nov. 28.

Container for refuse. L. Hermani. 2,532,165, Nov. 28.
Container for water softeners and the like, Pressure. W. C. Heath. 2,532,227, Nov. 28.
Container having spring biased sliding closure. J. M. Lyon, Jr. 2,531,737, Nov. 28.
Containing unit. F. O. Johnson. 2,532,066, Nov. 28.
Control apparatus. R. B. Drescher and A. C. Wenzel. 2,532,153, Nov. 28.
Control apparatus for alternating current. F. Kesselring. 2,531,443, Nov. 28.
Control composition, Turkey blackhead. E. Waletzky and H. W. Marson. 2,531,756, Nov. 28.
Control system, Speed. G. C. Sziklai. 2,531,834, Nov. 28.
Control unit for oil burners, Air. C. W. Smith. 2,531,538, Nov. 28.
Controller for dental engines and the like. D. J. Binus and J. A. Maurer. 2,531,764, Nov. 28.
Controlling combustion in internal-combustion engines. O. Appel. 2,531,493, Nov. 28.
Converter with means for putting it out of function, Static current. U. Lamm. 2,532,108, Nov. 28.
Conveyer belt for photographic printing machines. E. Nassimbene. 2,532,184, Nov. 28.
Conveyer, Coal. E. C. Webb. 2,531,928, Nov. 28.
Cooking. M. G. Clay. 2,532,009, Nov. 28.
Cooling device, Material. R. L. McIlvaine. 2,531,578, Nov. 28.
Cord, Heater. J. B. Whyland. 2,532,135, Nov. 28.
Cord pull, Venetian blind. J. W. Steinbachner. 2,532,202, Nov. 28.
Cotton stripper machine. B. M. Hyman. 2,532,065, Nov. 28.
Coulombmeter. J. E. Hammel. 2,531,811, Nov. 28.
Counter assembly, Extendible. R. A. Thompson. 2,532,041, Nov. 28.
Coupler, Variable directive. J. N. Marshall. 2,531,777, Nov. 28.
Coupling: *See*—
Pipe coupling.
Coupling and the like, Pipe. L. M. C. Seamark. 2,531,922, Nov. 28.
Coupling means for train communication systems, Wayside station line. E. W. Breisch, R. G. Reed, and L. R. Golladay. 2,531,498, Nov. 28.
Cover: *See*—
Golf club cover.
Wheel cover.
Luggage cover.
Cover for umbrellas or the like. H. R. Jones. 2,531,735, Nov. 28.
Covering and making the same, Floor or wall. W. Rowe. 2,532,196, Nov. 28.
Cradle. C. L. Miller. 2,531,858, Nov. 28.
Crane, Drape-supporting. E. G. Moeller. 2,531,822, Nov. 28.
Cream remover. J. P. Jones. 2,531,630, Nov. 28.
Crib, Cradle. A. Klazkin. 2,532,236, Nov. 28.
Cribbage board. W. F. Swift. 2,531,589, Nov. 28.
Crystalline dextrose, Manufacture of. L. Wallerstein. 2,531,999, Nov. 28.
Crystalline salts of riboflavin, Preparation of. M. Tishler and J. W. Wellman. 2,531,712, Nov. 28.
Cultivator, Rotary power. G. H. Dayton. 2,531,557, Nov. 28.
Current rectifiers, Manufacture of alternating electric. E. A. Sheppard and B. W. Glover. 2,531,535, Nov. 28.
Cushioning device for rock drill handles. J. H. Anderson. 2,531,800, Nov. 28.
Cutter: *See*—
Buttonhole cutter.
Cylinder construction, Master and receiver. H. B. Schultz. 2,531,705, Nov. 28.
Damper action for tuning fork pianos. D. Sebouh. 2,532,039, Nov. 28.
Data translation device for flight simulation. D. H. Ewing. 2,532,158, Nov. 28.
Demonstrator, Shock resistance. H. D. Hooker. 2,532,167, Nov. 28.
Derivatives of cyclohexene and preparing same. I. M. Heilbron and E. R. H. Jones. 2,531,567, Nov. 28.
Desulfurization of hydrocarbons. J. A. Chenicek. 2,531,767, Nov. 28.
Detecting flaws, Method and apparatus for. J. C. Dionne. 2,531,413, Nov. 28.
Determination of moisture contents. F. Courvoisier. 2,532,010, Nov. 28.
Device for converting motion. G. R. Bouchard. 2,532,254, Nov. 28.
Device for eliminating squeaks from board structures. H. E. Beach. 2,532,006, Nov. 28.
Device for producing sawtooth currents or voltages. F. Kerkhof. 2,531,850, Nov. 28.
Device for swinging ships. F. J. Van Dusen and W. A. Burke. 2,531,484, Nov. 28.
Device in easels for carrying pictures. N. A. Nilsson. 2,532,030, Nov. 28.
Diaper. L. I. Medoff. 2,532,029, Nov. 28.
Diaphragm with stiffening means, Acoustical. A. E. N. Lawrance. 2,531,634, Nov. 28.
Diazotypes comprising amine salts of sulfonic acid containing azo components. W. H. von Glahn, L. N. Stanley, and M. A. Hand. 2,531,485, Nov. 28.
Die casting. B. F. Holmes and H. H. Heindel. 2,532,256, Nov. 28.
Dihalomethylbenzanthrones. D. I. Randall and S. R. Buc. 2,531,464, Nov. 28.
Dihydroxydiphenyl coccidiosis control composition. J. E. Johnson, Jr., and D. R. Mussell. 2,532,233, Nov. 28.
Diphenyl-t-6-hydroxydehydroabietinol. H. H. Zeiss. 2,532,137, Nov. 28.
Direction determining and reverse operating means. A. V. Alvino. 2,531,719, Nov. 28.
Discharge device, High-frequency electronic. D. A. S. Hale and R. J. Kircher. 2,531,623, Nov. 28.
Disk, Friction. J. G. Martin. 2,531,696, Nov. 28.
Dispensing apparatus, Beverage. R. A. Nicholson. 2,532,118, Nov. 28.
Dispensing machine, Liquid. N. P. Holcomb and J. C. Rothwell. 2,531,938, Nov. 28.
Displacement pump. R. E. Sykes. 2,532,247, Nov. 28.
Display case having humidifying means, Refrigerated. H. Geneck. 2,531,506, Nov. 28.
Display container. M. I. Williamson. 2,532,216, Nov. 28.
Display device, Ornamental. H. H. Gratiot. 2,531,937, Nov. 28.
Display support. W. R. Gunderson. 2,532,022, Nov. 28.
Distributing machine, Phosphate. A. E. Moser. 2,531,580, Nov. 28.
Distributor, Grain. R. I. Patterson. 2,531,526–7, Nov. 28.
Distributor, Insecticide. A. W. Gustafson. 2,531,566, Nov. 28.
Doffer for cotton picker spindles. H. P. Petersen. 2,532,073, Nov. 28.
Doll, Eating. E. Kahn. 2,531,912, Nov. 28.
Door operating mechanism for several size door openings, Dump car. A. E. Zimmer. 2,531,960, Nov. 28.
Door structure. D. C. Rockola. 2,531,646, Nov. 28.
Drain attachment. E. Brock. 2,531,721, Nov. 28.
Drain system for steam engines, Condensate. J. F. Griffin and R. G. Skoog. 2,531,878, Nov. 28.
Drawbar, Tractor. K. W. Cline and D. F. Rinehart. 2,531,768, Nov. 28.
Dress form. J. J. Martini. 2,531,857, Nov. 28.
Drier: *See*—
Gaseous current spray drier.
Drill: *See*—
Portable self-feed drill.
Drill and reamer holder. A. E. Clark. 2,532,058, Nov. 28.
Drilling apparatus, Core. F. C. Sturges and R. B. Strope. 2,531,708, Nov. 28.
Drilling fluids. R. W. Beck. 2,531,662, Nov. 28.
Drilling structure provided with a drill pipe hoist, Well. H. J. Woolslayer and C. Jenkins. 2,531,930, Nov. 28.
Drive assembly for article-handling devices, Differential. V. A. Rayburn. 2,531,644, Nov. 28.
Dry rectifiers, Manufacture of. C. L. Cooper and L. J. Ellison. 2,531,402, Nov. 28.
Dyestuffs containing two heterocyclic nitrogen nuclei and an alkyl mercapto methinyl linking radical and their preparation. H. D. Edwards and J. D. Kendall. 2,531,973, Nov. 28.
Echo ranging system, Pulse modulated. W. E. Bradley. 2,532,221, Nov. 28.
Egg holder. J. R. Toney. 2,531,955, Nov. 28.
Elastomer reinforced with a modified clay. L. W. Carter, J. G. Hendricks, and D. S. Bolley. 2,531,396, Nov. 28.
Electric immersion heater. H. L. Barnebey. 2,531,885, Nov. 28.
Electric switch gear. G. Kilminster. 2,532,172, Nov. 28.
Electrical apparatus for measuring electrostatic voltages. D. Bulgin. 2,531,609, Nov. 28.
Electrical control for drilling machines, Safety. J. S. Beltz. 2,532,079, Nov. 28.
Electrical outlet. B. B. Bierce. 2,532,219, Nov. 28.
Electrical outlet, Safety. H. Hubbell. 2,531,625, Nov. 28.
Electrical system. O. B. Shafer and J. J. Sullivan. 2,531,895, Nov. 28.
Electrode, Vacuum tube. M. Arditi. 2,531,382, Nov. 28.
Electrolytic production of cacodyl. B. Witten. 2,531,487, Nov. 28.
Electromagnetic step-by-step switch. C. I. Johnson and K. R. Stauss. 2,531,882, Nov. 28.
Electron beam tube filter. H. L. Barney, L. C. Peterson, R. K. Potter, and R. W. Sears. 2,531,600, Nov. 28.
Electronic coordinating system. T. R. Burnight and J. F. Clark, Jr. 2,531,393, Nov. 28.
Elevator, Air-conditioned. W. F. Christmann. 2,532,268, Nov. 28.
Engine: *See*—
Internal-combustion turbine engine.
Two-cycle rotary valve internal-combustion engine.
Multiple opposed piston engine.
Two-cycle internal-combustion engine.
Engine valve mechanism-transmission actuated retarding and accelerating linkage. C. F. Berry. 2,531,904, Nov. 28.
Ensemble, Slip and blouse. L. Stein. 2,531,994, Nov. 28.
Eraser, Extendible. J. J. Robbins. 2,532,037, Nov. 28.
Erecting system, Gyroscope. W. A. Reichel. 2,531,826, Nov. 28.
Escutcheon and escutcheon fastening means. E. B. Cain. 2,531,670, Nov. 28.
Esters of 7-halogenocholesterol, Preparation of. E. R. H. Jones, A. E. Bide, and R. J. Nicholls. 2,531,688, Nov. 28.

Estimating the phlegmatizing properties of waxes as applied to high explosives. J. W. Rowen and A. J. Phillips. 2,531,471, Nov. 28.
Expanding minerals, Method and apparatus for. J. L. Essex and J. R. Appleton. 2,531,975, Nov. 28.
Expansible sheath electric power cable. J. S. Möllerhöj and S. Stigsgaard. 2,531,917, Nov. 28.
Extension key chain. C. A. Anderson. 2,531,835, Nov. 28.
Extractor: *See*—
Weed extractor.
Fabric: *See*—
Knitted pile fabric.
Fabrication of piezoelectric crystal units. A. W. Ziegler. 2,531,660, Nov. 28.
Fabrics and producing same, Patterned. G. Heberlein. 2,531,814, Nov. 28.
Fastener: *See*—
Rail fastener.
Feed head, Automatic. G. Treglown and C. E. Broders. 2,532,207, Nov. 28.
Feeding and reversing mechanism for typewriting machines, Ribbon. C. W. Crumrine. 2,531,872, Nov. 28.
Feeding device, Paper. A. W. Mills, F. J. Furman, and E. J. Rabenda. 2,531,885, Nov. 28.
Feeding fixture, Round nut. I. H. Carlson. 2,531,395, Nov. 28.
Feeding mechanism for typewriting machines, Tape. R. D. Dodge and J. L. Petz. 2,531,875, Nov. 28.
Feeding system for engines, Fuel. F. C. Mock. 2,531,780, Nov. 28.
Fifth wheel. R. A. Braunberger. 2,531,871, Nov. 28.
Filleting machine, Fish. C. M. Savrda. 2,532,198, Nov. 28.
Filling device, Fountain pen. G. W. Oakes. 2,531,525, Nov. 28.
Filling flexible containers with finely divided materials and machine therefor. D. Ray. 2,531,743, Nov. 28.
Film cassette for cameras. W. E. Tait and A. W. Stellpflug. 2,531,651, Nov. 28.
Film cassette for cameras. W. E. Tait and A. W. Stellpflug. 2,531,653, Nov. 28.
Filter: *See*—
Electron beam tube filter.
Hybrid channel-branching microwave filter.
Filter and valve mechanism. R. Q. Boyer. 2,531,802, Nov. 28.
Filter control valve. O. A. Maunula. 2,532,177, Nov. 28.
Fire alarm system. F. H. Bray, E. F. Bates, and J. C. Doughty. 2,531,391, Nov. 28.
Firebox for furnaces, Sectionally removable and replaceable. L. E. Seeley. 2,531,864, Nov. 28.
Fire extinguisher for motor carburetors, Automatic. G. C. Adalbert. 2,531,490, Nov. 28.
Fishhook. A. Kissell. 2,531,941, Nov. 28.
Fishhook. C. H. Liebe. 2,531,981, Nov. 28.
Fishhook. G. A. Sweetman. 2,531,995, Nov. 28.
Fish tackle float. E. A. Coughlin. 2,531,806, Nov. 28.
Fish trap with expandible hooks. M. A. Nolan. 2,532,186, Nov. 28.
Fishing float. J. J. Kirschman. 2,531,940, Nov. 28.
Fishing gear. M. E. Walsh. 2,532,045, Nov. 28.
Fishing guide. M. Glick. 2,532,061, Nov. 28.
Fishing reel. W. Willman. 2,531,929, Nov. 28.
Fixture, Surface finishing. R. A. Schultz. 2,531,921, Nov. 28.
Flashlight, eyepiece, and headgear, Combination. W. H. Pope. 2,531,585, Nov. 28.
Flavor bud. D. F. Silver. 2,531,536, Nov. 28.
Floating roof with flexible deck and central weights. R. C. Ulm. 2,531,898, Nov. 28.
Floating roofs, Making. R. C. Ulm. 2,531,897, Nov. 28.
Flow control device, Fluid. E. F. Rossman. 2,531,532, Nov. 28.
Flow regulation valve. J. A. Southern and S. B. Bogese. 2,531,479, Nov. 28.
Fluorescent screens, including the elimination of copper impurities, Making. J. J. Geoghegan. 2,531,618, Nov. 28.
Foldable tree holder. W. T. Kennel. 2,531,690, Nov. 28.
Folding machine, Sheet. G. S. Berman. 2,531,386, Nov. 28.
Food conditioning apparatus. R. D. Parks. 2,532,033, Nov. 28.
Fork, Steering. E. F. and R. L. Pawsat. 2,532,034, Nov. 28.
Forming a plaster mold or core for casting metals. X. L. Bean. 2,531,496, Nov. 28.
Four-way slide, selector valve. T. C. Hill. 2,531,511, Nov. 28.
Frequency voltage regulator. J. F. Emerson. 2,531,727, Nov. 28.
Friction assembly and making the same. E. L. Moore. 2,531,782, Nov. 28.
Friction means, Gravity-operated. A. V. L. C. Debrie. 2,531,558, Nov. 28.
Fruits and vegetables, Treatment of. D. E. Pryor and J. C. Baker. 2,531,463, Nov. 28.
Furnace for alternative forced and convection air flows, Air-heating. W. F. Crell. 2,532,089, Nov. 28.
Fuse. D. L. Baxter. 2,532,078, Nov. 28.
Fuse, Thermal time lag. G. A. Berthel. 2,532,081, Nov. 28.
Game board and cards adapted to be utilized therewith. W. A. Heacock. 2,531,510, Nov. 28.
Game, Bombing. F. J. Bula. 2,531,608, Nov. 28.
Garment hanger. L. Samuel. 2,531,894, Nov. 28.
Garment, Infant's. M. T. Wolf. 2,531,716, Nov. 28.
Gas analysis, Method and apparatus for. W. P. Yant and H. N. Cotabish. 2,531,592, Nov. 28.
Gas dissolving apparatus. P. H. Thompson. 2,531,655, Nov. 28.
Gas generator. H. Tobler, Jr. 2,531,657, Nov. 28.
Gas turbine lubrication. C. C. Davenport. 2,531,411, Nov. 28.
Gaseous current spray drier. J. M. Hall. 2,531,879, Nov. 28.
Gated trigger demodulating circuit. M. M. Levy. 2,531,446, Nov. 28.
Gauge: *See*—
Liquid level gauge. Marking gauge.
Gear: *See*—
Electric switch gear. Fishing gear.
Gear shifter control. J. M. Myers. 2,531,582, Nov. 28.
Geared socket wrench. J. V. Maddox. 2,532,027, Nov. 28.
Generator: *See*—
Gas generator. Voltage pulse generator.
Ultra high frequency oscillation generator.
Generator and conditioner, Combined smoke. M. H. Lipton. 2,532,260, Nov. 28.
Generator assembly, Vapor. C. A. Miller. 2,532,179, Nov. 28.
Girdle. F. Desrochers. 2,531,769, Nov. 28.
Girdle, Panty. O. Erteszek. 2,531,772, Nov. 28.
Glass, Illuminated drinking. M. E. Moore. 2,532,181, Nov. 28.
Glass yarn, Manufacture of. J. F. Hyde. 2,531,571, Nov. 28.
Golf club cover. M. H. Rosenow and W. E. Schwalbe. 2,532,195, Nov. 28.
Golf tee. J. E. Rickard. 2,531,470, Nov. 28.
Graining or abrading lithographic plates or the like by centrifugal blast of wet slurry. O. E. Zahn. 2,532,136, Nov. 28.
Gripping head for electric cables, Battery post. W. N. Stevenson. 2,532,127, Nov. 28.
Groover, Tire. W. F. Errig and E. S. De Hart. 2,532,156, Nov. 28.
Guard, Bridge. C. G. Gottholm. 2,531,565, Nov. 28.
Guard for presses, Safety. G. F. Beebe. 2,531,837, Nov. 28.
Guard, Lock. S. F. Stanley. 2,531,865, Nov. 28.
Gun case. G. T. Bradley and E. E. Brown. 2,531,550, Nov. 28.
Gunnery practice range control device. C. W. Clarkson, Jr. 2,531,400, Nov. 28.
Hairpin. G. A. L. Linden. 2,531,854, Nov. 28.
Halomethyl-4-halobenzanthrones. D. I. Randall and S. R. Buc. 2,531,465, Nov. 28.
Hammer and renewable tip for hammer mills. E. C. Anderson. 2,531,597, Nov. 28.
Hammer mill provided with means for detachably mounting the sizing screen. C. F. and H. D. Schutte. 2,532,262, Nov. 28.
Hamper. H. G. Lankford, Jr. 2,531,520, Nov. 28.
Handcart, Tiltable wheeled. E. De Lay. 2,532,015, Nov. 28.
Hanger: *See*—
Garment hanger. Trotline hanger.
Hanger device. E. M. Davis. 2,532,255, Nov. 28.
Hanger pin for railway trucks, Swing. R. N. Janeway. 2,532,272, Nov. 28.
Harvester for onions and the like. E. E. Chickering. 2,531,379, Nov. 28.
Harvesting machine, Potato. V. D. Jones. 2,532,169, Nov. 28.
Hat, Snapper party. J. E. Larman. 2,531,853, Nov. 28.
Heater: *See*—
Electric immersion heater. Water heater.
Intermittent combustion spark ignition aircraft heater.
Heater and cooker, Portable. W. A. Bailey. 2,532,139, Nov. 28.
Heating device. O. G. Bennett. 2,531,548, Nov. 28.
Heel. H. F. Banner. 2,531,963, Nov. 28.
High splice structure for full-fashioned stockings and making the same. W. Nebel. 2,532,072, Nov. 28.
Hitch. M. H. Deviley. 2,531,559, Nov. 28.
Hitch, Mower dampening. A. G. Hupp. 2,532,230, Nov. 28.
Hoist. H. A. Briggs. 2,531,668, Nov. 28.
Holder: *See*—
Berry vine holder. Foldable tree holder.
Clamp paintbrush holder. Level holder.
Drill and reamer holder. Minnow holder.
Egg holder. Wrist watch holder.
Holder and perforator, Can. W. J. Pasmore. 2,532,244, Nov. 28.
Holder for boats, Lantern. F. E. Hull. 2,531,626, Nov. 28.
Holder for cameras, Light. H. Powell. 2,532,075, Nov. 28.
Holder for yarn or the like, Skein. M. W. Nicholas. 2,532,185, Nov. 28.

Hook: *See*—
Logging hook.
Hosiery, Manufacturing. R. E. Claussner. 2,532,008, Nov. 28.
Hybrid channel-branching microwave filter. W. D. Lewis. 2,531,447, Nov. 28.
Ice creeper. F. D. Stalford. 2,531,707, Nov. 28.
Ignition circuit. R. J. Miller. 2,531,638, Nov. 28.
Image transmission. J. P. Smith. 2,531,831, Nov. 28.
Implement, Fish holding. J. J. Pilliod. 2,531,987, Nov. 28.
Impregnating wood with sodium thiosulfate. R. G. Ramsey. 2,532,193, Nov. 28.
Improving lubricating oils by treating with hydrofluoric acid and silver fluoride. P. H. Carnell. 2,531,723, Nov. 28.
Improving the properties of natural resins and the products obtained thereby. E. D. Lee and R. J. Scheffbauer, Jr. 2,531,776, Nov. 28.
Index, Selectable. J. F. Thull. 2,532,129, Nov. 28.
Indexing and lock mechanism. O. H. Pearson. 2,531,890, Nov. 28.
Indicating device, Radio direction. W. J. O'Brien. 2,531,918, Nov. 28.
Indicating extension-attachment for collapsible tubes. H. A. Perrigo. 2,531,641, Nov. 28.
Indicating system for rotary winged aircraft, Air-speed. E. A. Link. 2,531,521, Nov. 28.
Indicating system, Position. P. J. Herbst. 2,532,063, Nov. 28.
Indicator: *See*—
Rate of change indicator. Tire deflation indicator.
Inhibition of oil well corrosion. J. L. Seymour. 2,531,829, Nov. 28.
Inking device, Ribbon. W. J. Kreider. 2,531,692, Nov. 28.
Insecticide comb-applicator. N. Williams. 2,532,001, Nov. 28.
Insecticide comprising rotenone and piperonyl cyclonene as a synergist therefor. L. W. Brannon. 2,531,390, Nov. 28.
Inspection apparatus and method. J. F. Price. 2,531,529, Nov. 28.
Instrument for making perspective drawings. E. E. McCullough. 2,531,636, Nov. 28.
Instrument for measuring compressional wave radiation pressure. G. Fiedler. 2,531,844, Nov. 28.
Instrument for retrograde electrosurgical resection. F. J. Wallace. 2,532,043, Nov. 28.
Instrument, Musical. L. M. Hartman. 2,532,226, Nov. 28.
Instrument, Orthodontal. B. E. Smith. 2,532,200, Nov. 28.
Instrument panel illumination. P. J. Kayatt. 2,531,516, Nov. 28.
Interference reducing method of secret communication. M. H. Shamos and I. S. Lowen. 2,531,951, Nov. 28.
Intermittent combustion spark ignition aircraft heater. G. Jacobs. 2,531,939, Nov. 28.
Internal-combustion turbine engine. R. L. Moyer. 2,531,581, Nov. 28.
Internal radially acting hydraulic wheel brake. A. L. Gingrich. 2,531,677, Nov. 28.
Interpolymers of acrylonitrile and fumarodinitrile. G. F. D'Alelio. 2,531,409, Nov. 28.
Interpolymers of acrylonitrile and itaconic acid. G. F. D'Alelio. 2,531,408, Nov. 28.
Jet casting arrow. E. Fitzharris. 2,531,418, Nov. 28.
Joint: *See*—
Compromise joint. Swing joint.
Kiln. V. J. Azbe. 2,532,077, Nov. 28.
Knitting machine. S. Saftlas. 2,531,649, Nov. 28.
Knitted pile fabric. W. A. Rice. 2,531,718, Nov. 28.
Label, Textile. C. Jordan. 2,531,631, Nov. 28.
Lathe for shoe lasts, Automatic copying. L. E. Topham and C. L. Knott. 2,531,590, Nov. 28.
Lathe, Multiple crankpin turning. F. S. Floeter. 2,531,616, Nov. 28.
Lawn mower. J. T. King. 2,532,105, Nov. 28.
Leg protector. O. E. Hoffman. 2,532,024, Nov. 28.
Legs for ironing boards, Adjustable length folding. J. Merner. 2,531,778, Nov. 28.
Level holder. E. F. Feldheim. 2,531,563, Nov. 28.
Lighter, Cigarette. R. F. Landwehr. 2,531,632, Nov. 28.
Lighter, Electric cigar. P. E. Ashton. 2,531,901, Nov. 28.
Lighter, Pyrophoric. H. Chen. 2,531,554, Nov. 28.
Liner for mess kit covers. R. T. Dahl. 2,531,671, Nov. 28.
Liners and adhesive tapes having low adhesion polyvinyl carbamate coatings. C. A. Dahlquist, J. O. Hendricks, and W. E. Sohl. 2,532,011, Nov. 28.
Lining railroad curves. R. C. Petry. 2,531,461, Nov. 28.
Linkage with multiple controlled elements, Variable output. C. C. De Pew. 2,531,614, Nov. 28.
Liquid level gauge. E. Y. Guthmann. 2,531,774, Nov. 28.
Liquid treating device, Electrical. W. Dubilier. 2,532,016, Nov. 28.
Liquid treating drum, Rotary. E. G. Wilson. 2,532,002, Nov. 28.
Lithium borohydride, Direct production of. P. F. Winternitz. 2,532,217, Nov. 28.
Loader, Magazine. J. J. Bilodeau. 2,531,387, Nov. 28.
Loading device, Tractor operated. L. W. Smith. 2,531,993, Nov. 28.
Locking device, Adjustable. L. L. Deal. 2,531,971, Nov. 28.
Locking device, Vehicle steering wheel. R. E. Field. 2,531,675, Nov. 28.
Locomotive draft chamber. J. G. Vallely. 2,532,208, Nov. 28.
Logging hook. M. Gerum. 2,531,422, Nov. 28.
Longitudinal road joint support. H. J. Webb. 2,531,899, Nov. 28.
Loom with stationary weft supply. C. Clutsom. 2,532,087, Nov. 28.
Lubricant for application to bolt stock or the like, Upsetting-die. C. G. Canney. 2,531,553, Nov. 28.
Lubricants. J. W. Jordan. 2,531,440, Nov. 28.
Lubricating oil composition. E. S. Blake. 2,531,801, Nov. 28.
Luggage cover. M. L. Duskin. 2,532,154, Nov. 28.
Luminaire for elongate tubular lamps comprising telescoped extensible sections. E. F. Guth, Jr. 2,532,023, Nov. 28.
Luminous sign. W. C. Meyer. 2,532,178, Nov. 28.
Machine for decurling labels. H. A. Gonia. 2,531,619, Nov. 28.
Machine for halving and pitting drupaceous fruit. L. W. Waters. 2,531,927, Nov. 28.
Machine for making cement roofing tile. G. W. Lang. 2,531,574, Nov. 28.
Magnetic bodies from compressed powdered materials, Manufacture of. W. E. Laycock. 2,531,445, Nov. 28.
Magnetically-controlled valve. E. Paille. 2,531,824, Nov. 28.
Magneto, Ignition. J. A. Baines. 2,531,961, Nov. 28.
"Making bottom" in ingot soaking pits, Method and apparatus for. D. W. Saunders. 2,531,473, Nov. 28.
Marking gauge. R. Caldwell. 2,531,803, Nov. 28.
Mask for cathode-ray tubes. J. O. Simpkins, Jr. 2,531,527, Nov. 28.
Mat. F. Watson. 2,531,659, Nov. 28.
Mat, Infant bath. E. D. Cevasco. 2,531,724, Nov. 28.
Means for use in applying, alternatively, air pressure and suction to a given point. J. M. Wyer. 2,532,003, Nov. 28.
Measurement of the intensity of penetrative radiations. J. R. Carlin and E. T. Clarke. 2,531,804, Nov. 28.
Measuring and controlling system. A. J. Hornfeck, 2,531,682, Nov. 28.
Measuring apparatus and method, Magnetic. J. De Pangher. 2,531,807, Nov. 28.
Measuring device, Electrical pressure. L. R. Engvall. 2,531,414, Nov. 28.
Measuring device, Foot. A. M. Smith. 2,531,477, Nov. 28.
Measuring device, Friction. S. M. Christian. 2,531,906, Nov. 28.
Measuring system with magnetic brake, Foil. F. E. Fischer. 2,531,417, Nov. 28.
Measuring valve. E. W. Davis. 2,532,269, Nov. 28.
Mechanical movement. R. L. Wilcox and H. L. Hoyt. 2,532,213, Nov. 28.
Melting glass by electricity. P. Crochet and R. E. Lambert. 2,531,612, Nov. 28.
Mercaptan synthesis. R. T. Bell and C. M. Thacker. 2,531,601, Nov. 28.
Metal identifier. R. F. Stearn. 2,531,747, Nov. 28.
Metallic structure, Extensible. R. K. Wellman. 2,531,797, Nov. 28.
Metallurgical apparatus, Electric. D. R. Bean. 2,531,964, Nov. 28.
Meter: *See*—
Positive displacement type fluid meter.
Meter reset device. R. A. Road. 2,531,948, Nov. 28.
Microphone stand. F. S. Lewis. 2,532,173, Nov. 28.
Microwave device, Variable reactive. J. Evans. 2,532,157, Nov. 28.
Mine roof and timbering jack. F. J. Jakoubek. 2,532,168, Nov. 28.
Minnow holder. R. W. Brecht and E. H. Meyer. 2,531,551, Nov. 28.
Mixing machine, Multiple drink. E. S. Prince and J. Brotheridge. 2,531,989, Nov. 28.
Mold base. G. H. Beck and J. Z. Foris. 2,531,965, Nov. 28.
Mold for making hollow concrete blocks. E. P. Wittke. 2,532,049, Nov. 28.
Molding concrete building units. E. J. Rappoll. 2,531,990, Nov. 28.
Molding for vehicle bodies. W. H. Bishop. 2,531,967, Nov. 28.
Molding machine. C. A. Nichols, M. E. Todd, W. A. Fletcher, and C. J. Keller. 2,531,524, Nov. 28.
Motor: *See*—
Synchronous motor.
Two-cylinder rotary motor.
Motor mechanism, Fluid. S. I. MacDuff. 2,531,695, Nov. 28.
Mount, Lamp shade. C. Moser. 2,531,523, Nov. 28.
Mount, Meter. H. Jensen. 2,531,514, Nov. 28.
Mounting: *See*—
Side delivery rake mounting. Window mounting.
Mounting for children's wagons or the like, Spring. R. A. Clark. 2,531,933, Nov. 28.
Mounting for platforms or trays, Screw. H. Taylor, V. E. Hunt, and R. Melcher. 2,531,925, Nov. 28.

Mounting for price tag moldings. D. L. Mapson and C. E. Buckmeyer. 2,532,028, Nov. 28.
Mower. E. M. Lieberman. 2,532,174, Nov. 28.
Mud gun, Jet propelled rotary action submarine. S. W. Woolsey. 2,531,760, Nov. 28.
Multiple opposed piston engine. T. Y. Korsgren. 2,532,106, Nov. 28.
Multiple-roller bearing unit. J. M. Ducharme. 2,531,770, Nov. 28.
N,N-dimethyl acetamide-containing compositions. G. F. D'Alelio. 2,531,406–7, Nov. 28.
Navigational aid, Radio. A. R. Grenfell. 2,531,908, Nov. 28.
Navigational aid, Radio-frequency. W. J. O'Brien. 2,531,919, Nov. 28.
Neurological hammer with brush and needle hidden in handle. S. G. Golub and P. G. Field. 2,532,093, Nov. 28.
Noise suppression means for communication receiving apparatus. K. E. Doriot. 2,531,505, Nov. 28.
Nozzle. H. S. Bower. 2,531,666, Nov. 28.
Nozzle, Quick-change slush. J. C. Stokes and C. C. Goolsbee. 2,531,749, Nov. 28.
Nozzle, Variable area. L. E. Telbizoff. 2,531,896, Nov. 28.
Nursing device. M. G. Hoffman. 2,531,570, Nov. 28.
Object supporting means. J. W. Goss. 2,532,162, Nov. 28.
Olican. T. Johnson. 2,531,980, Nov. 28.
Oil draining device, Portable. M. Burress. 2,531,765, Nov. 28.
Ointment base of glycerine with phosphatide and pitrolatum. A. Traub and M. Mattikow. 2,532,206, Nov. 28.
Opener, Can. T. L. Rush. 2,532,121, Nov. 28.
Optical lens system. A. Waldorf and W. H. Wade. 2,531,956, Nov. 28.
Ornamental box. J. Byck. 2,531,968, Nov. 28.
Orthopedic bar. P. Molas and D. Pileggi. 2,531,579, Nov. 28.
Orthopedic device. A. J. Weber. 2,531,486, Nov. 28.
Oscillator, Line-tuned. P. S. Lansman. 2,531,693, Nov. 28.
Oscillator, Line-tuned. O. W. Towner. 2,531,713, Nov. 28.
Oscillator, Stabilized line tuned. G. C. Izenour. 2,531,683, Nov. 28.
Outlet box wall and cable clamp. H. E. Petrick and J. L. Johnson. 2,531,698, Nov. 28.
Oxyalkylated drastically-oxidized cashew nutshell liquid, and making same. M. De Groote and O. H. Pettingill. 2,531,502, Nov. 28.
Package delivery type motor vehicle. C. L. Carlson and R. W. Bond. 2,532,057, Nov. 28.
Packer assembly. W. F. Silvey. 2,531,791, Nov. 28.
Packing gland. H. G. Wasserlein. 2,532,210, Nov. 24.
Packing, Pump plunger. M. H. Daye. 2,531,672, Nov. 28.
Pad: *See*—
Shoulder pad.
Pail, Minnow. M. P. Janisch. 2,531,628, Nov. 28.
Paint material. R. G. Houser. 2,532,099, Nov. 28.
Pan, Multiple baking. A. L. Langel. 2,532,109, Nov. 28.
Panel for sidings and roofs. A. Elmendorf. 2,532,017, Nov. 28.
Pants, Baby. F. W. Andrews. 2,531,900, Nov. 28.
Pebble heater process. J. F. Church. 2,531,725, Nov. 28.
Pedal, Accelerator. C. P. Pinardi and D. L. Poole. 2,532,189, Nov. 28.
Pentaerythritol and formic acid, Separation of. J. A. Wyler. 2,532,253, Nov. 28.
Pentaerythritol, Making. J. A. Wyler. 2,532,252, Nov. 28.
Phase shifting circuit. H. L. Saxton. 2,531,474, Nov. 28.
Phosphoric acid, Manufacture of. B. W. Hammaren and R. V. Townend. 2,531,977, Nov. 28.
Photographic material, Diazotype. S. C. Slifkin and H. C. Unkauf. 2,532,126, Nov. 28.
Photographic shutter. A. P. Neyhart. 2,531,639, Nov. 28.
Piano plate, Cast. G. L. Moore, W. E. Sicha, and R. B. Wrege. 2,532,070, Nov. 28.
Pin retainer for draft keys. O. E. Wilson and W. H. Sale. 2,531,758, Nov. 28.
Pipe coupling. J. W. Clerke. 2,531,401, Nov. 28.
Piston ring. A. R. Moore. 2,532,180, Nov. 28.
Piston ring. H. Pien. 2,531,784, Nov. 28.
Planting machine, Seed. J. Powell. 2,532,191–2, Nov. 28.
Plate forming and finishing machine, Stereotype. O. C. Roesen, C. L. Ricards, and P. L. Tollison. 2,531,647, Nov. 28.
Pliers. A. M. Malouf. 2,531,522, Nov. 28.
Plug for diplex transmission lines, Shorting. G. A. Kumpf. 2,531,519, Nov. 28.
Pocket case adapted to receive a memorandum pad, Side and top opening. D. J. Broughton. 2,531,606, Nov. 28.
Polishing device, Fibrous. F. A. Upper and R. A. Baumgartner. 2,532,248, Nov. 28.
Polyethylene foams. J. B. Ott. 2,532,243, Nov. 28.
Polyhydric alcohols, Preparing. J. R. Roach and H. Wittcoff. 2,532,036, Nov. 28.
Polymeric compositions. G. F. D'Alelio. 2,531,410, Nov. 28.
Polyphase cyclotron. R. S. Bailey. 2,531,384, Nov. 28.
Polystyrene foams. J. B. Ott. 2,532,242, Nov. 28.
Polyvinyl acetal foams. J. B. Ott. 2,532,241, Nov. 28.
Polyvinyl alcohol compositions containing corrosion inhibitor. C. A. Porter. 2,531,700, Nov. 28.
Polyvinyl sulfonates and preparing the same. D. D. Reynolds and W. O. Kenyon. 2,531,469, Nov. 28.
Polyvinyl sulfonates and their preparation. D. D. Reynolds and W. O. Kenyon. 2,531,468, Nov. 28.
Portable self-feed drill. C. L. Best. 2,531,604, Nov. 28.
Positioning control mechanism, Hydraulic power device. R. W. Hautzenroeder. 2,531,428, Nov. 28.
Positive displacement rotary pump. A. C. Durdin, III. 2,531,726, Nov. 28.
Positive displacement type fluid meter. W. F. Berck. 2,531,603, Nov. 28.
Power mechanism for typewriters, Jam-free. R. V. Reppert. 2,531,891, Nov. 28.
Power-operated hand tool. E. H. Karleen. 2,531,849, Nov. 28.
Power source. R. V. L. Hartley. 2,532,096, Nov. 28.
Precooler with internal fins. H. J. Kellershon. 2,532,026, Nov. 28.
Preparing a cracking or reforming feedstock. J. W. Teter. 2,532,128, Nov. 28.
Press: *See*—
Punching and drawing press.
Pressure cooker. M. J. Zimmer. 2,531,717, Nov. 28.
Pressure operated valve. W. E. Shafer. 2,532,123, Nov. 28.
Pressure reducing device for refrigerating apparatus. H. M. Goldberg. 2,532,019, Nov. 28.
Printing machine, Stencil controlled. A. M. Mills and L. J. Herman. 2,531,886, Nov. 28.
Printing system and method, Telegraphic. J. J. Ackell and H. L. Paulding. 2,531,868, Nov. 28.
Producing capsules, Process and apparatus for. B. D. Pile. 2,531,986, Nov. 28.
Producing electrical waves of predetermined formation, Method and apparatus for. D. Sebouh. 2,532,038, Nov. 28.
Producing transparentized and crinkled cellulosic fabrics. G. Heberlein. 2,531,813, Nov. 28.
Projection system and viewing screen, Television. M. Cawein and H. W. G. Salinger. 2,531,399, Nov. 28.
Projection system, Schmidt television. G. L. Grundmann. 2,531,509, Nov. 28.
Propeller control mechanism, Cycloidal. K. F. J. Kirsten. 2,532,235, Nov. 28.
Propulsion means for aircraft, Fluid. E. G. Still. 2,531,748, Nov. 28.
Propulsion system, Thermal jet and rocket motor. M. J. Zucrow. 2,531,761, Nov. 28.
Protecting inverters against disturbances. U. Lamm. 2,532,107, Nov. 28.
Protection for distortable rubber surfaces, Sunlight. A. W. Spicer. 2,531,541, Nov. 28.
Protective apparatus for combustion systems. W. J. Willenborg. 2,532,214, Nov. 28.
Protective apparatus for refrigerating systems. A. Poukhalo-Pouklovsky. 2,532,074, Nov. 28.
Protective device for fuel lines or the like. L. A. Williams, Jr., and A. C. Allen. 2,531,958, Nov. 28.
Protector: *See*—
Leg protector. Toe protector.
Pulse identification. J. B. Atwood and G. E. Hansell. 2,531,494, Nov. 28.
Pulverizer, Cornstalk. O. A. Hoffman. 2,531,732, Nov. 28.
Pump: *See*—
Displacement pump.
Positive displacement rotary pump.
Pump. F. C. Byram. 2,532,135, Nov. 28.
Pump. W. R. Eames. 2,531,808, Nov. 28.
Pump. C. B. Wade. 2,531,997, Nov. 28.
Pump. D. C. Walmsley. 2,531,794, Nov. 28.
Pump and emergency means insuring fuel feed upon pump failure, Rotary fuel metering. J. A. Bolt and F. P. Jackson. 2,531,664, Nov. 28.
Pump combination. E. R. Halpin. 2,532,163, Nov. 28.
Pump for pressure lubrication purposes, Gear. B. P. Schmitt. 2,531,861, Nov. 28.
Pumping apparatus for sumps. R. H. Thomas. 2,531,752, Nov. 28.
Punchboard. P. S. Doumitt. 2,531,674, Nov. 28.
Punching and drawing press. O. F. A. P. A. M., and A. G. B. A. Biginelli. 2,531,663, Nov. 28.
Pushbuttons for radio receiver tuners, Selectively illuminated. J. L. Whittaker. 2,532,212, Nov. 28.
Push plate and letter drop for full-vision doors, Combined. L. M. Sanders. 2,531,703, Nov. 28.
Pyridone derivatives. W. F. Bruce. 2,532,055, Nov. 28.
Rack for toasting bread. T. E. Phares. 2,531,462, Nov. 28.
Radio location device, Stereoscopic. R. H. Ranger. 2,531,466, Nov. 28.
Radio responsive device, Visible image. E. G. Linder. 2,532,175, Nov. 28.
Rail fastener. J. A. McGrew. 2,531,577, Nov. 28.
Ratchet drive mechanism for power vehicles, Reversible. A. J. Lewis. 2,531,819, Nov. 28.
Rattrap. T. Helme. 2,531,568, Nov. 28.
Rate of change indicator. W. Angst and J. H. Andresen, Jr. 2,531,492, Nov. 28.
Razor for single edge blades, Safety. J. R. Lynch. 2,531,736, Nov. 28.
Rearrangement of steroid oximes. P. L. Julian, J. W. Cole, E. W. Meyer, and A. Magnani. 2,531,441, Nov. 28.
Receiver comprising automatic gain control, Wireless. B. O. M. Gall. 2,531,845, Nov. 28.
Receiver system. R. B. Reade. 2,531,467, Nov. 28.
Receiving system, Multiple distribution radio. W. J. Jones. 2,531,438, Nov. 28.

Receptacle: *See*—
Wall receptacle.
Receptacle and perch, Combined bird feeding. J. E. Maly. 2,531,915, Nov. 28.
Record controlled machine. G. F. Daly. 2,531,873, Nov. 28.
Recorder and synchronizer, Compact facsimile. W. G. H. Finch. 2,532,271, Nov. 28.
Recording system for automatic telephony, Automatic call. C. G. Miller. 2,531,637, Nov. 28.
Recording system, Stereophonic sound. K. de Boer. 2,532,150, Nov. 28.
Recovering and purifying streptomycin. H. E. Alburn and E. G. Snyder. 2,531,869, Nov. 28.
Rectifier. C. A. Escoffery. 2,531,415, Nov. 28.
Reduction of carbon oxide by hydrogen, Catalytic. W. G. Frankenburg. 2,531,420, Nov. 28.
Reel: *See*—
Cable reel. Trotline fishing reel.
Fishing reel.
Reflection reducing coatings having uniform reflection for all wave lengths of light and forming such coatings. H. R. Moulton. 2,531,945, Nov. 28.
Refrigerator for automobiles and motor boats. J. J. Dubuc. 2,532,090, Nov. 28.
Refrigerator, Portable electric. H. E. Kimble. 2,532,234, Nov. 28.
Registering device, Distance. F. O. Lingenfelder. 2,531,448, Nov. 28.
Regulator: *See*—
Frequency voltage regulator.
Relay, Latching. A. H. Bergemann. 2,531,838, Nov. 28.
Relay using indium, Thermal overload protective. L. Zickrick. 2,532,265, Nov. 28.
Remote control and extension for telephones, Combined. G. J. Rovnak. 2,531,648, Nov. 28.
Remover, Paint, varnish, and lacquer. E. P. Peterson and O. P. Muller. 2,531,825, Nov. 28.
Reproducing control system, Automatic sound. A. L. Holcomb. 2,532,098, Nov. 28.
Reserve fuel supply. D. C. Haley. 2,531,847, Nov. 28.
Resiliently mounted reclining chair. A. E. Johnson. 2,532,025, Nov. 28.
Resin compositions, Plasticized. D. E. Floyd. 2,532,018, Nov. 28.
Resins, Phenolic. M. J. Scott and E. F. Jackson. 2,531,862, Nov. 28.
Responsive device, Speed. H. R. Canfield. 2,531,611, Nov. 28.
Retrieving device for articles submerged in water. W. E. Ramsey. 2,531,586, Nov. 28.
Rig for attachment to flat bottom rubber boats or rafts, Sailing and steering. J. C. Boyd. 2,531,549, Nov. 28.
Rig for ladies, Stopper. H. A. Davis and G. W. Ruhl. 2,531,556, Nov. 28.
Ring: *See*—
Piston ring.
Ring expander, Split. L. R. Barkan and M. L. Anderson. 2,532,141, Nov. 28.
Ringing system, Selective station. F. J. Singer and L. J. Stacy. 2,532,125, Nov. 28.
Rock conveyor ship. M. R. Ward. 2,532,249, Nov. 28.
Roentgen-ray apparatus. W. Ott. 2,531,583, Nov. 28.
Roller journal for hot-gas swept bowl mills. G. H. Frangquist. 2,532,092, Nov. 28.
Roller, Pipe. M. A. Adams. 2,531,545, Nov. 28.
Roller skate and carrier device therefor. A. Woodard and I. W. Lewine. 2,531,959, Nov. 28.
Roller unit for furnaces. W. J. Millar. 2,531,984, Nov. 28.
Roofing. H. G. Goslin. 2,532,095, Nov. 28.
Rotor mechanism for aircraft Retractable lift. H. A. Garrett. 2,531,976, Nov. 28.
Rudder, Retractable. Z. Vander. 2,532,042, Nov. 28.
Safety control system, Combustion. H. G. Nehrbas. 2,531,887, Nov. 28.
Safety drive, Rotary. S. Konikoff. 2,531,573, Nov. 28.
Safety for firing mechanisms for cannon using separate loading ammunition. W. Sommerbell, L. J. Rhein, and O. D. Hoopes. 2,531,483, Nov. 28.
Sagger and batch for making the same. M. W. Caton. 2,531,397, Nov. 28.
Sander, Auto road. R. L. Taylor. 2,531,654, Nov. 28.
Sander block. O. Stucker. 2,531,588, Nov. 28.
Scarfing billets and the like, Method and apparatus for thermochemically. J. F. Kierman. 2,532,103, Nov. 28.
Scoop, Weighing. M. S. Martin. 2,531,575, Nov. 28.
Scraper for containers, Brush. G. E. Marrier. 2,531,982, Nov. 28.
Screw driver, Reversible ratchet. E. D. Brubeck. 2,531,722, Nov. 28.
Screw driver, Screw holding. B. J. Johnson. 2,531,515, Nov. 28.
Seal for floating roof tanks. F. L. Goldsby and C. M. Orr. 2,531,424, Nov. 28.
Sealing and testing wellhead connections. H. Allen and M. T. Works. 2,531,596, Nov. 28.
Seat back and washbasin unit, Folding. O. Kuhler. 2,532,237, Nov. 28.
Seed planting machine. J. Powell. 2,532,192, Nov. 28.
Self-cleaning capillary tube type flow-meter. E. R. Woodward. 2,532,218, Nov. 28.
Separating rosin acids from mixed materials. N. L. Kalman. 2,532,101, Nov. 28.
Separation of C8 H10 aromatic hydrocarbons by extractive distillation. A. C. Nixon, C. H. Deal, Jr., and R. J. Evans. 2,532,031, Nov. 28.
Separator for electric storage batteries. E. R. Dillehay and R. D. Schuetz. 2,531,504, Nov. 28.
Servomotor, Pressure fluid. L. E. Daubenmeyer. 2,531,907, Nov. 28.
Shaping plastic sheet material. H. E. Smith. 2,531,540, Nov. 28.
Shaping tool. M. D. Gersh. 2,531,728, Nov. 28.
Shears, Garden. O. F. Borg. 2,532,220, Nov. 28.
Sheet delivering means in rotary presses. E. J. Janke. 2,531,629, Nov. 28.
Shelter, Portable. P. T. Cline. 2,531,501, Nov. 28.
Shield can with spring attachment means. E. L. Johnson. 2,531,911, Nov. 28.
Shipping case. A. B. Brenner. 2,532,083, Nov. 28.
Shipping container. R. B. Smith. 2,531,792, Nov. 28.
Shopping bag. J. F. Spahr. 2,531,954, Nov. 28.
Shoulder pad. A. M. Dee. 2,532,059, Nov. 28.
Shutter for high-pressure metal vapor lamps, Simmering. J. B. S. Smyth. 2,531,924, Nov. 28.
Shutter mechanism, Camera. M. N. Fairbank and S. B. Whittier. 2,531,936, Nov. 28.
Side delivery rake mounting. H. L. Crose. 2,531,934, Nov. 28.
Sight for firearms, Adjustable rear. J. C. Garand. 2,531,421, Nov. 28.
Sign: *See*—
Luminous sign.
Signaling system, Selective. C. D. Hanscom. 2,531,624, Nov. 28.
Signaling unit construction, Liquid level. F. P. Scully. 2,531,950, Nov. 28.
Silent electric switch. L. Mannon. 2,531,452, Nov. 28.
Silver halide developers containing polyethylene glycols. W. A. Stanton. 2,531,832, Nov. 28.
Sizing roll, Plate glass. R. J. Price. 2,531,988, Nov. 28.
Slat operating mechanism. L. G. Brown. 2,531,490, Nov. 28.
Sleeve or bushing for holding bobbins firmly on the pins of pin trays. G. McGee. 2,532,114, Nov. 28.
Soaps, Stabilized metallic. H. Packer. 2,531,460, Nov. 28.
Socket for fluorescent lamps, One-piece resilient. G. Shaw. 2,531,533, Nov. 28.
Socket, Lamp. H.-E. Johansson. 2,531,686, Nov. 28.
Solderless connector. B. F. Larsen. 2,532,068, Nov. 28.
Solenoid, Rotary. G. W. Carpenter. 2,531,905, Nov. 28.
Solenoid unit. E. M. Claytor. 2,531,500, Nov. 28.
Sorbic acid esters, Making. R. I. Hoaglin and D. H. Hirsh. 2,531,512, Nov. 28.
Sorting apparatus. K. W. Dean, H. S. Beattie, and R. E. Page. 2,531,874, Nov. 28.
Spade attachment, Lawn edging. S. R. Christiansen. 2,532,147, Nov. 28.
Speech privacy apparatus. D. F. Hoth. 2,531,435, Nov. 28.
Speed change power transmission. J. Schlaepfer. 2,531,992, Nov. 28.
Spinning apparatus, Rod. R. A. McCallum and E. M. Luce. 2,531,821, Nov. 28.
Spray apparatus with oscillatory discharge means. J. N. Welch. 2,532,211, Nov. 28.
Spray coating electrode structure. R. H. Stone. 2,531,542, Nov. 28.
Spray for dental engines, Air and water. R. J. Broussard and J. G. Tilly. 2,532,054, Nov. 28.
Spray head, Trigger actuated portable. F. H. Ellinger. 2,532,270, Nov. 28.
Spraying apparatus for treating livestock. H. E. Whitmire and R. J. Knepper. 2,532,251, Nov. 28.
Spraying device. H. R. Stagner. 2,531,650, Nov. 28.
Spreader, Fertilizer. R. D. Acton. 2,532,050, Nov. 28.
Sprinkler head, Atomizing. A. C. Rowley. 2,531,789, Nov. 28.
Sprinkler head assembly. A. C. Rowley. 2,531,790, Nov. 28.
Sprinkler, Hydro jet. F. H. Smith. 2,531,923, Nov. 28.
Stabilization of viscous dispersions of cottonseed proteins. J. C. Arthur, Jr. 2,531,383, Nov. 28.
Stand: *See*—
Microphone stand.
Starting mechanism for internal-combustion engines. H. R. Richardo. 2,531,788, Nov. 28.
Steels, Chromium stainless. M. Baeyertz and W. M. Lindsey. 2,531,720, Nov. 28.
Steering mechanism for trailers. G. F. Dibert and E. C. Hoist. 2,532,151, Nov. 28.
Stiffening for garments. C. M. Durey and F. Maynard. 2,531,843, Nov. 28.
Stitching mechanism, Wire. J. I. Nasmith. 2,531,985, Nov. 28.
Stock, Razor blade. E. N. Hibbert. 2,531,731, Nov. 28.
Stocking and sewing same. W. M. Camp. 2,531,839, Nov. 28.
Stoker fan, Freewheeling. E. C. Webb. 2,531,796, Nov. 28.
Stoker, Spreader. E. L. Midgette and R. W. Reid. 2,531,779, Nov. 28.
Stop motion for double feed mechanism on knitting machines, Electric. R. Hill. 2,531,681, Nov. 28.
Strainer. F. Berman. 2,532,052, Nov. 28.
Strainer for coffee makers and making same. M. T. Cahenzli, Jr. 2,532,146, Nov. 28.

Straw, Sipping. A. M. Loptson. 2,531,855, Nov. 28.
Stretcher, Pants. C. L. Bader and C. C. Stone. 2,531,599, Nov. 28.
Stud setting device. B. A. McKean. 2,531,456, Nov. 28.
Superphosphate manufacturing plant. E. A. Werner. 2,531,798, Nov. 28.
Support: *See*—
Adjustable typewriter support.
Display support.
Longitudinal road joint support.
Tractor seat support.
Support. W. R. Gunderson. 2,532,021, Nov. 28.
Support bearing and gear assembly. G. K. Richardson. 2,531,587, Nov. 28.
Support for a pipe within a conduit. J. F. Walsh. 2,531,668, Nov. 28.
Support for desk drawers, Business machine. C. M. Abrahamson. 2,531,381, Nov. 28.
Support for centering device. A. I. Zumwalt. 2,531,799, Nov. 28.
Support for electrical machines. R. J. Reek and F. O. Wisman. 2,531,702, Nov. 28.
Support for growing plants, Floating. P. H. Eve. 2,531,562, Nov. 28.
Support for vehicle running gears, Spring. C. A. Gustafson. 2,531,621, Nov. 28.
Surfboard. G. B. D. Parker. 2,531,946, Nov. 28.
Switch: *See*—
Electromagnetic step-by-step switch.
Silent electric switch.
Timing switch.
Switch arranged in multiple rows, Push-button. E. S. McLarn. 2,531,457, Nov. 28.
Switch arrangement, Decentralized line. R. E. Hersey. 2,532,097, Nov. 28.
Switch contact, Cam operated. H. E. W. West. 2,532,000, Nov. 28.
Switch for box-making machines, Target operated. A. Bascetta. 2,532,005, Nov. 28.
Switch for engine cooling systems, Safety. F. W. Murphy. 2,532,182, Nov. 28.
Swivel attachment, Stirrup. F. C. Borst. 2,532,082, Nov. 28.
Synchronizing system. W. R. Koch. 2,531,691, Nov. 28.
Synchronous motor. J. H. Kuhlmann. 2,531,518, Nov. 28.
Synchronous motor. W. J. Reid. 2,531,530, Nov. 28.
Synthetic filaments for wig making purposes and for making wigs therefrom, Preparing. M. Jacoby. 2,531,685, Nov. 28.
Syringe, Hygienic. S. Sulek. 2,531,793, Nov. 28.
Syringe, Hypodermic. Z. M. Roehr. 2,531,893, Nov. 28.
System for determining distance and direction by electromagnetic wave energy. E. M. Deloraine. 2,531,412, Nov. 28.
Table adjustable vertically and tiltably, Bed. J. M. Allan. 2,531,762, Nov. 28.
Tachometer. H. A. Straus. 2,531,833, Nov. 28.
Tamale forming machine. G. Van Voorst. 2,532,131, Nov. 28.
Tank: *See*—
Underground storage tank.
Tank type vacuum cleaner. A. E. Smith. 2,532,264, Nov. 28.
Target-throwing machine. G. H. Darrell. 2,531,613, Nov. 28.
Telephone system. E. L. Erwin. 2,531,615, Nov. 28.
Television in natural color. K. R. Wendt. 2,531,544, Nov. 28.
Temperature control system for heating units. E. J. Zeitlin. 2,531,593, Nov. 28.
Terminal, Fuse tube. C. E. Schultheiss. 2,531,949, Nov. 28.
Tester, Compartment. A. U. Bryant. 2,531,607, Nov. 28.
Tester, Dynamic balance. T. Carrigan. 2,532,056, Nov. 28.
Testing apparatus, Corrosion. I. Kirschenbaum and D. A. McCaulay. 2,532,257, Nov. 28.
Testing apparatus, Soil. J. W. Black. 2,531,388, Nov. 28.
Textile drafting and spinning. E. G. Whittaker. 2,532,275, Nov. 28.
Textile machine. A. G. B. Metcalf. 2,531,944, Nov. 28.
Textile materials, Production of. T. Jackson. 2,531,513, Nov. 28.
Thermoplastic composition. W. Rowe. 2,532,197, Nov. 28.
Thermoplastic compositions with reduced flow viscosity. E. D. Seidynsky. 2,532,245, Nov. 28.
Thermoplastic material, Preparing. C. D. Orsini. 2,531,739, Nov. 28.
Thermoplastic materials, Manufacture of expanded. S. Booth. 2,531,665, Nov. 28.
Thin paper insulated electric cable. L. Domenach and L. Macardier. 2,532,152, Nov. 28.
Thioethers and/or mercaptans, Production of. R. T. Bell. 2,531,602, Nov. 28.
Thixotropic investment material. E. E. Ensign. 2,532,155, Nov. 28.
Tile setting apparatus. P. Schneider. 2,531,862, Nov. 28.
Timepiece with oil shield, Electromagnetic. J. Berge. 2,531,966, Nov. 28.
Timing control for internal-combustion engines, Ignition. M. Mallory. 2,532,069, Nov. 28.
Timing switch. O. J. Alvarez. 2,531,491, Nov. 28.
Tire chain installer and car mover. L. E. Cone. 2,532,149, Nov. 28.
Tire deflation indicator. P. Siever. 2,532,199, Nov. 28.
Titanium dioxide pigment from high titanium dioxide content slags, Production of. S. P. Todd, M. L. Myers, and W. J. Cauwenberg. 2,531,926, Nov. 28.
Toe protector. I. Kiwad. 2,531,851, Nov. 28.
Tool: *See*—
Power-operated hand tool.
Shaping tool.
Tool for crimping tube ends, Hand. F. V. Wood. 2,531,489, Nov. 28.
Toolholder with adjustable limit stop, Threading. T. R. Christopher. 2,532,148, Nov. 28.
Torch, Arc-oxygen underwater cutting. Z. A. Mackiewicz. 2,531,450, Nov. 28.
Toy bank and music box, Combination. E. W. Baggott. 2,531,495, Nov. 28.
Toy, Infant's teething. F. Monaco. 2,532,116, Nov. 28.
Toy, Marble actuated rotary wheel. W. A. Garbe. 2,531,564, Nov. 28.
Toy pistol. E. J. Willis. 2,531,591, Nov. 28.
Tracking and smoothing device, Regenerative. H. K. Weiss. 2,531,957, Nov. 28.
Tractor. F. N. G. Kranick. 2,531,818, Nov. 28.
Tractor seat support. R. E. Knoedler. 2,531,572, Nov. 28.
Traffic detector. K. W. Jarvis. 2,532,231, Nov. 28.
Trailer, Boat. J. G. Reading. 2,531,947, Nov. 28.
Trailer hitch. E. J. Mock. 2,531,859, Nov. 28.
Trailer, Tank. L. F. Larsen. 2,531,694, Nov. 28.
Transducer head, Electromagnetic. H. A. Howell. 2,532,100, Nov. 28.
Transducing system, Magnetic. R. K. Potter. 2,531,642, Nov. 28.
Transformer. A. Meyerhans. 2,531,697, Nov. 28.
Transformer, High-frequency coupling. J. O. Silvey. 2,532,263, Nov. 28.
Transformer, Voltage. N. E. Lindenblad. 2,531,820, Nov. 28.
Transformer, Wave guide impedance. M. H. Johnson and W. W. Hansen. 2,531,437, Nov. 28.
Translating means and variable-inductor transducer therefor, Electrical. H. P. Kalmus. 2,531,689, Nov. 28.
Transload device. A. E. Brickman. 2,531,552, Nov. 28.
Transmission operating mechanism. H. W. Price. 2,531,701, Nov. 28.
Transmission system, Interference. M. Cawein and J. D. Schantz. 2,531,398, Nov. 28.
Transmission, Variable-speed. C. F. Voytech. 2,531,996, Nov. 28.
Transmission, Variable speed power. L. E. Shaw. 2,532,124, Nov. 28.
Transmitter, Subscription type television. A. Ellett. 2,531,974, Nov. 28.
Trap: *See*—
Automatic drain trap.
Trap door hopper top. M. T. Dick. 2,531,503, Nov. 28.
Tray, Detachable bicycle carrier-universal detachable. C. W. Baron. 2,531,902, Nov. 28.
Tray, Ice. G. J. van Lennep. 2,531,714, Nov. 28.
Tray, Ice cube. L. L. Mallard. 2,532,113, Nov. 28.
Treatment of cellulosic textile material to increase its water absorbency. D. M. Musser. 2,532,183, Nov. 28.
Tripod head. J. F. Schroeder. 2,532,122, Nov. 28.
Trotline fishing reel. W. Homoky. 2,531,816, Nov. 28.
Trotline hanger. T. Pringle. 2,531,643, Nov. 28.
Trouser pattern, Universal. G. A. Mongelli. 2,531,781, Nov. 28.
Tube: *See*—
Ultra short wave transmitting tube.
Tube flaring machine with a plurality of aligned work holders and dies. A. E. Watts. 2,532,250, Nov. 28.
Tube for high voltages, Ion discharge. F. M. Penning and J. H. A. Moubis. 2,532,188, Nov. 28.
Tube forming apparatus, Thermoplastic. S. J. Everett. 2,532,091, Nov. 28.
Tufting machine, Bristle. J. A. Starr. 2,531,481, Nov. 28.
Tumbling drum for fur softening and cleaning machines. H. S. Friedman. 2,531,676, Nov. 28.
Tuner. G. F. Behringer. 2,532,051, Nov. 28.
Twister stopping device. I. S. Roberts. 2,531,531, Nov. 28.
Two-cycle internal-combustion engine. F. M. Jones. 2,532,273, Nov. 28.
Two-cycle rotary valve internal-combustion engine. W. H. Phelps. 2,531,699, Nov. 28.
Two-cylinder rotary motor. W. F. Berck. 2,531,903, Nov. 28.
Two-stage vapor condenser. A. H. Totten. 2,531,753, Nov. 28.
Typewriter, Electrically operated. F. H. Hesh. 2,532,228, Nov. 28.
Ultra high frequency oscillation generator. C. E. Hallmark. 2,531,426, Nov. 28.
Ultra short wave transmitting tube. O. Doehler, W. Kleen, and H. Huber. 2,531,972, Nov. 28.
Uncapping machine, Honeycomb. M. I. Taylor. 2,531,709, Nov. 28.
Underground storage tank. E. S. Pomykala. 2,531,742, Nov. 28.
Vacuum cleaner attachment. B. S. Jablon. 2,531,627, Nov. 28.

Valve: *See*—
Accumulator valve.
Automatic return flow control valve.
Filter control valve
Flow regulation valve.
Four-way, slide, selector valve.
Magnetically - controlled valve.
Measuring valve.
Pressure operated valve.
Variable drip valve.
Valve. R. E. Glos. 2,531,679, Nov. 28.
Valve. A. J. Wolf, H. F. Moller, and W. M. Crook. 2,531,759, Nov. 28.
Valve and switch support for endoscopic instruments, Rotatable. H. S. Rubens and I. Suwa. 2,531,827, Nov. 28.
Variable drip valve. C. H. Sparklin and G. Sporney. 2,531,480, Nov. 28.
Vehicle: *See*—
Package delivery type motor vehicle.
Vehicle and parcel carrier, Child's. W. J. Zepp. 2,532,004, Nov. 28.
Vehicle room and berth arrangement. B. E. Jones. 2,531,687, Nov. 28.
Vending machine. H. J. Burasco. 2,532,084, Nov. 28.
Vending machine. C. W. Hall. 2,532,062, Nov. 28.
Vending machine, Hot material. O. C. Stover. 2,532,204, Nov. 28.
Venting apparatus, Battery. F. H. Smith and P. G. Couperus. 2,531,952, Nov. 28.
Vessel for submarine operations and operating the same, Stabilizable. C. J. McCoy. 2,531,983, Nov. 28.
Vibrating device for a directed vibratory effect by means of rotatable vibratory members. R. A. O. Signeul. 2,531,706, Nov. 28.
Vibration detector, Electrostatic. R. H. Dicke. 2,532,060, Nov. 28.
Vibrator. F. W. Side. 2,532,274, Nov. 28.
Vibrator for the fillings of tooth cavities. G. K. G. Gustafson. 2,531,680, Nov. 28.
View finder, Television. W. E. Beatty. 2,531,497, Nov. 28.
Vinyl resin dispersion. W. H. Bromley, Jr. 2,532,223, Nov. 28.
Vitamin-enriched product and producing same. J. W. Jordan. 2,531,439, Nov. 28.
Voltage pulse generator. A. R. Simpson. 2,531,830, Nov. 28.
Volume control for telephone ringers. W. E. Whidden. 2,532,133, Nov. 28.
Wall receptacle. G. P. Wiedman. 2,532,134, Nov. 28.
Water heater. W. A. Marshall, Jr. 2,531,459, Nov. 28.
Water purification. F. J. Maier. 2,531,451, Nov. 28.
Wax refining. R. W. Pressing and B. J. Pettibone. 2,531,785, Nov. 28.
Weed extractor. R. E. McKinney. 2,532,115, Nov. 28.
Wheel: *See*—
Fifth wheel.
Wheel cover. G. A. Lyon. 2,531,449, Nov. 28.
Winding machine, Capacitor. S. Kalm. 2,532,171, Nov. 28.
Winding machine, Coil. J. E. Bancroft. 2,531,962, 2,531,962, Nov. 28.
Winding machine, Coil. W. H. Sheley. 2,531,534, Nov. 28.
Winding machine, Finned tube. J. S. Newlin. 2,532,239, Nov. 28.
Window. L. O. Chartier. 2,531,969, Nov. 28.
Window mounting. C. H. Turner. 2,532,130, Nov. 28.
Windrower. C. W. Hansen and F. N. G. Kranick. 2,532,164, Nov. 28.
Windshield cleaner. J. R. Oishei, E. C. Horton, and A. C. Scinta. 2,531,889, Nov. 28.
Wrapper, Balloon. P. O. Walter. 2,531,795, Nov. 28.
Wrench: *See*—
Geared socket wrench.
Wrench having cam lever for swinging and locking a pivoted outer jaw. E. A Schumacher. 2,531,746, Nov. 28.
Wrist watch holder. J. Gomberg. 2,532,161, Nov. 28.
Zipper actuating device for hookless fasteners. E. J. Clark. 2,531,805, Nov. 28.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 28, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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JOHN A. MARZALL, *Commissioner*

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Condition of Applications Under Examination at Close of Business Nov. 17, 1950

Total number of patent applications awaiting action, 125,628. Date of oldest new application, September 16, 1949; date of oldest amended application, September 14, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
* C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spitoons; Sewage.	12-24-49	12-14-49	2600
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-22-49	11-12-49	2074
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8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	11-1-49	11-1-49	2559
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26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-6-50	1-4-50	1396
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	1-6-50	12-27-49	2144
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-14-49	10-14-49	1591
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-21-50	1-31-50	1846
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	3-17-50	3-20-50	2078
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-28-50	2-7-50	2165
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	2-28-50	1-24-50	1563
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-10-50	1-9-50	2176
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	11-18-49	11-14-49	1709
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	11-16-49	12-2-49	1773
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	11-7-49	11-5-49	1604
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	12-8-49	12-12-49	1065
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	3-29-50	2-15-50	1388
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	9-20-49	9-19-49	3093
40. DRUMMOND, E. J., Receptacles (part); Packages	1-3-50	12-19-49	3280
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	9-16-49	9-20-49	1666
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-26-50	12-9-49	2218
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	4-25-50	3-22-50	1046

*Commissioner's Examiners' Division.

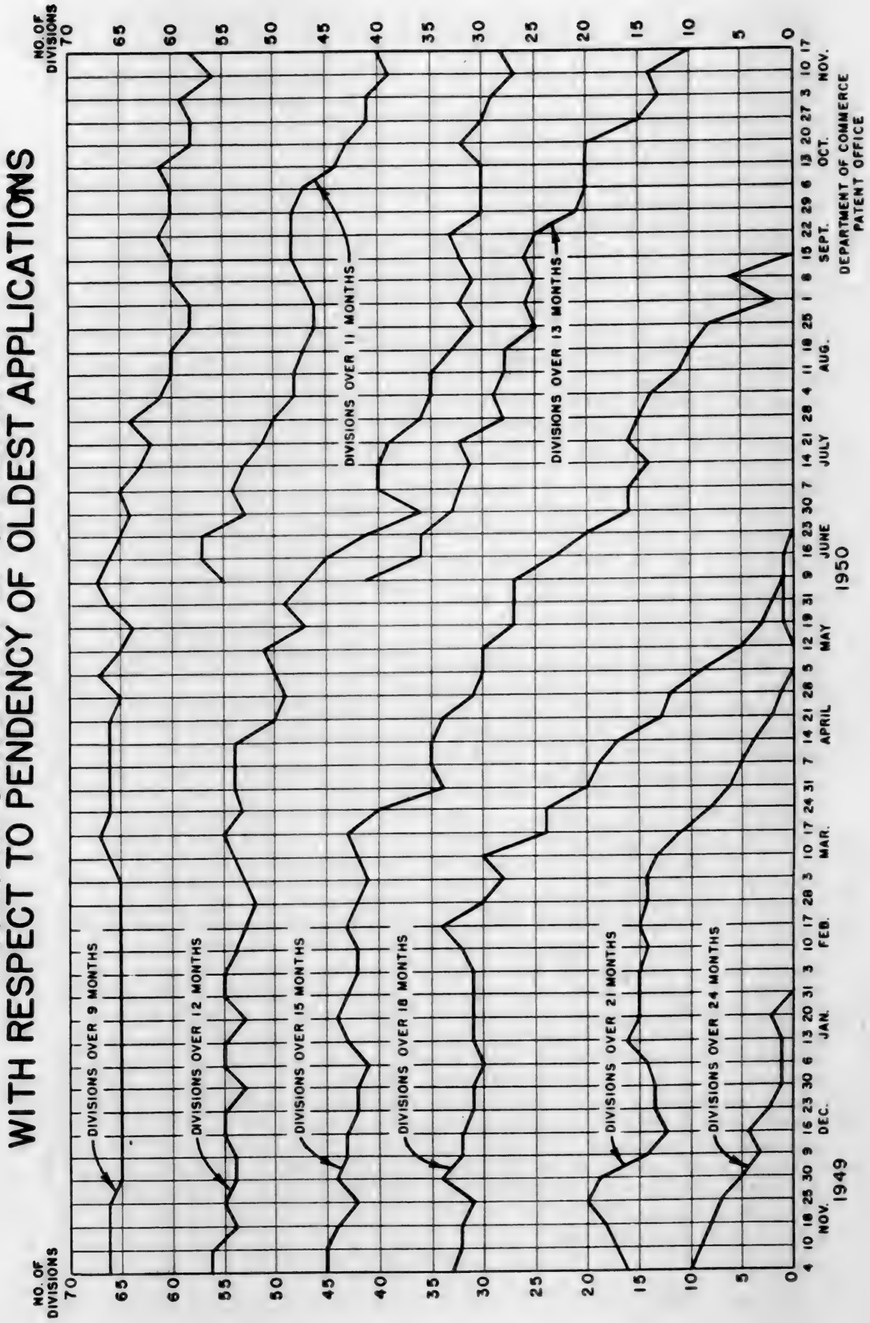
Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 125,628. Date of oldest new application, September 16, 1949; date of oldest amended application, September 14, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
44. HARVEY, L. P., Beds; Chairs, Seats	10-1-49	10-5-49	1906
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-19-49	11-19-49	1902
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	11-7-49	11-18-49	1386
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-17-50	12-1-49	1898
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	2-24-50	11-16-49	1128
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	11-7-49	11-5-49	2140
50. LEVIN, SAMUEL, Synthetic Resins	4-22-50	2-23-50	1715
51. YAFFEE, S., (Acting), Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	1-6-50	11-9-49	1554
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	11-15-49	11-10-49	3196
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	1-24-50	12-29-49	1266
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	1-28-50	11-15-49	1544
55. KLINE, J. R., (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	2-20-50	2-3-50	1370
56. COCKERILL, E., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	2-7-50	1-25-50	1734
57. MILLER, A. H., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	3-18-50	3-18-50	1432
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	10-25-49	1515
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-23-50	2-4-50	1152
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	4-1-50	2-28-50	1131
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-21-49	12-6-49	1874
63. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	12-10-49	12-9-49	2497
64. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	3-3-50	3-14-50	1625
65. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	4-29-50	4-24-50	1688
66. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-25-50	2-27-50	1841
66. LISANN, L., Geometrical Instruments	11-19-49	9-14-49	1117
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-23-50	2-20-50	1417
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-20-50	2-8-50	1570
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-23-49	11-21-49	2003
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	11-3-49	9-23-49	2146
DESIGNS: BREHM, G. L.	1-7-50	5-16-50	4189

Total number of trade-mark applications awaiting action (including renewals and republicatons), 22,561. Date of oldest new application, Feb. 8, 1950; date of oldest amended application, Feb. 10, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-21-50	2-21-50	6578
II. SUMMERS, C. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	3-14-50	2-24-50	3976
Renewals (All Classes)	9-15-50	10-17-50	341
Republications (All Classes)	9-26-50	10-17-50	275
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	2-23-50	2-23-50	5489
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	2-8-50	2-1-50	5902



DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals
District of Columbia Circuit

STANHOPE NIXON AND NIXON NITRATION WORKS

v.

JOHN A MARZALL, COMMISSIONER OF PATENTS

No. 10691. Decided November 9, 1950

[— F.2d —; — USPQ —]

1. PATENTABILITY—INVENTION—IMPROVED RESULTS.
Although the variations initiated by the applicant had desirable effects, *Held* that since all the essential features of his process were disclosed in the prior art, the judgment of the district court that the process was not the product of inventive talent is not so lacking in support as to justify reversing it.

2. SAME—PARTICULAR SUBJECT MATTER—PROCESS OF MAKING MOLDING POWDER OR PELLETS.
The judgment of the district court holding certain claims to a process of making thermoplastic molding powder or pellets unpatentable over the prior art is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

Clarence B. Des Jardins (*Howard T. Keiser, Watts T. Estabrook* and *William T. Estabrook* of counsel) for Stanhope Nixon et al.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

Before MILLER, FAHY, and WASHINGTON, *Circuit Judges*

FAHY, *C. J.*:

Questioned by this appeal is the judgment of the United States District Court for the District of Columbia in proceedings under § 4915 R. S. (35 U. S. C. 63) in which plaintiffs, who are now appellants, sought a decree authorizing issuance to them of a patent on certain claims. The primary examiner of the Patent Office had rejected the claims and his decision had been approved by the Board of Appeals of the Patent Office.

The claims have to do with a process devised by Stanhope Nixon for making thermoplastic molding powder or pellets. The Nixon Nitration Works holds an assignment of Nixon's interest in his application for patent. The process in essence is as follows: Raw thermoplastic material such as cellulose acetate is physically mixed with a plasticizer, dyes and pigments to form a solvent-free dry mix from which all moisture in excess of 0.5% is removed. After the drying process this granular mix is fed into a heated extrusion machine where it is subjected to heat and pressure and from which it is extruded in rods of colloidized, plasticized, thermoplastic material. When these rods have been cooled so as to harden they are chopped into pellets, which constitute the molding powder or pellets. This finished product is free of "fines," that is, the pellets are accompanied by no fine particles of the same material. The pellets are used in other machinery for the making of plastic molds; but this case involves only the making of the pellets themselves.

The principal contribution claimed for the Nixon process over those disclosed by the prior art is that it eliminates fines. This is an improvement because the fines which persisted in previous processes interfered with the efficiency of the molding machine in which the pellets or powders are used in the molding of plastic articles. Fines tend to clog or jam the molding machine and also by scorching and burning lead to overheating of the cylinder of this equipment. The improvement wrought by Nixon, coupled with the uniform size of his pellets, met with commercial acceptance of a significant character.

The Patent Office, and also the district court after a trial de novo in accordance with § 4915, supra, found non-patentability because of lack of invention. The court found that the Conklin patent, No. 2,048,686, of July 28, 1936, disclosed a dry mix process for the production of colloidized molding powders or pellets from cellulose acetate, in which process the material was dried to a moisture content below 0.5%, then mixed with a plasticizer and any other additions, such as a pigment, then kneaded on heated rolls whereby it was converted to a homogeneous mass and into a colloidized material. The findings of the court continue, "The plasticized sheet formed on the heated rolls may be cooled and broken up or granulated into small particles to produce granular molding powders." The court also found that a second patent to Conklin of April 18, 1939, No. 2,155,303, with some change in sequence in the process, disclosed a dry mix for the production of colloidized molding powder or pellets. In this process the mix is passed through heated rolls and thereby homogenized before the removal of the moisture. On December 9, 1941, as the district court also found, a patent to Moss, No. 2,265,303, dealt with the same general problem, including the use of an extrusion machine which converted into a homogeneous powdery or granular form cellulose acetate mixed with water or other non-solvent and sprayed with a liquid plasticizer. The extruded rods were disintegrated or broken up into granules, with the

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assistance of cutter blades. The district court found also that a British patent of January 8, 1935, No. 422,232, issued to the Celluloid Corporation, related generally to the molding of thermoplastic material containing cellulose acetate, a plasticizer, and any other additions, such as a pigment, and used a heated extrusion machine in converting or colloidizing the material from which molding powders or pellets were made. The material was chopped with a reciprocating knife on leaving the extrusion nozzle. Other patents are referred to in later years in which extrusion machines appear. There is no doubt as to the sufficiency of the evidence to support these findings of the district court.

The court concluded that the two Conklin patents, Nos. 2,048,686 and 2,155,303, "indicating why and showing how cellulose acetate may be dried to remove all moisture in excess of 0.5%, and the Moss patent, No. 2,265,303, and British patent, No. 422,232, establishing that such material with a plasticizer may be subjected to heat and pressure in an extrusion machine the same as on heated rolls, thereby to colloidize it," meet all the essential features recited in the claims involved in this appeal.

The essence of the manufacture of the powders or pellets to enable them to be used in molding is to gather and mix the appropriate ingredients, to dry them so that the moisture content is not more than 0.5%, to homogenize the mixture, and to break or cut the material into powder or pellets. All of this had been accomplished by the art as it existed prior to the Nixon processes. The prior art had also made use of a heated extrusion machine to colloidize the material. In removing the moisture several methods had been used, including pan driers, whereas Nixon used a vibrating plate lamp drier. The prior art had used steamheated rolls to knead the material whereas Nixon accomplished the homogenizing by the use of the heated extrusion machine. Such a machine had been used in the prior art at an earlier stage of the colloidizing process.

[1] From the foregoing analysis of the situation the findings of the district court that the prior arts in their combined teachings had met all the essential features recited in the claims is not so lacking in support as to justify us in holding such findings to be clearly erroneous. We do not question that the variations initiated by Nixon had the very desirable effect of eliminating fines and of making the manufacturing process more commercially acceptable. But we nevertheless are faced with the basic developments prior to his entry into the field. These contained all the essentials. The principles relied upon by appellant, that "the fact that steps in a process are old does not negative invention," and that commercial success is a factor to be considered in favor of patentability, are not disputed.[1] Nevertheless it must appear that the claims presented as the basis for a patent are the product of creative talent. [2] The ultimate conclusion of the district court on this point adverse to appellant is not so lacking in support as to justify us in overturning it within the rule governing this appeal, recently reviewed by us in *Standard Oil Development Co* v. *Marzall*, — U. S. App. D. C. —, decided February 27, 1950, 181 F.2d 280, 633 O. G. 995.

AFFIRMED.

[1] See *Gilbert* v. *Marzall*, — U. S. App. D. C. —, decided May 15, 1950, 182 Fed. 389, 637 O. G. 981; *Seagram & Sons, Inc.* v. *Marzall*, — U. S. App. D. C. —, decided January 23, 1950, 180 F.2d 26, 632 O. G. 335.

United States Court of Appeals District of Columbia Circuit

PAUL M. AMBROSE ET AL.

v.

JOHN A. MARZALL, COMMISSIONER OF PATENTS

No. 10018. Decided February 6, 1950. Petition for writ of certiorari denied October 9, 1950

[181 F.2d 272; 84 USPQ 265]

1. REISSUE—INADVERTENCE, ACCIDENT, OR MISTAKE.
   Appellants' application for reissue of a patent *Held* properly refused in the absence of any substantial evidence of the "inadvertence, accident, or mistake" required by R. S. 4916, 35 U. S. C. 64 and the decision of the district court dismissing the complaint on this ground affirmed.

APPEAL from the United States District court for the District of Columbia.

AFFIRMED.

Stone E. Bush (*Alva D. Adams* of counsel) for Ambrose et al.

E. L. Reynolds (*J. Schimmel* of counsel) with whom *W. W. Cochran*, former Solicitor United States Patent Office, was on brief, for the Commissioner of Patents.

Before EDGERTON, PRETTYMAN, and WASHINGTON, *Circuit Judges*

PER CURIAM:

This appeal is from a judgment for the defendant Commissioner of Patents in a suit under R. S. § 4915, 35 U. S. C. § 63, to obtain reissue of a patent with added claims. Quite apart from any question of estoppel, there was no substantial evidence of the "inadvertence, accident, or mistake" required by R. S. § 4916, 35 U. S. C. § 64. We express no opinion regarding the district court's ruling that the appellant was, as a matter of law, estopped to make the added claims.

AFFIRMED.

United States Court of Appeals District of Columbia Circuit

SOUTHLAND PAPER MILLS, INC., OF TEXAS AS ASSIGNEE OF CHARLES CARPENTER ET AL.

v.

JOHN A. MARZALL, COMMISSIONER OF PATENTS

No. 10505. Decided June 26, 1950

[86 USPQ 66; 183 F.2d 976]

1. PATENTABILITY—PROCESS—MATERIAL USED AT DIFFERENT STAGE.
   Since the use of alum at other stages of the process to counteract pitch was known in the art, *Held* there was no invention in substituting alum for barium used in the grinder for that purpose, even if excellent results were produced.

2. SAME—PARTICULAR SUBJECT MATTER—PROCESS OF MAKING PULP.
   Certain claims to a process of making pulp from resinous logs *Held* not to define invention over the prior art and the decision of the district court dismissing the complaint affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

Lester B. Clark (*Emmett Leo Sheehan* and *Landon G. Dowdey* of counsel) for Southland Paper Mills, Inc. et al.

E. L. Reynolds for the Commissioner of Patents.

Before EDGERTON, PRETTYMAN, and FAHY, *Circuit Judges*

PER CURIAM:

This appeal is from a judgment dismissing a complaint under R. S. § 4915, 35 U. S. C. § 63, to authorize the issue of a patent on an improvement in the process of making pulp from resinous logs. The alleged invention consists of adding alum to the water that is used in cooling the log-grinding part of the pulp-making machinery. Adding alum at this early stage in the process of making pulp has proved effective in eliminating trouble caused by the pitch in southern pine. Barium had previously been tried at the same stage in the process, and alum had been used at later stages in the process, for the same purpose but with much less effect. The various that appellant seeks to patent produces excellent results. [1], [2] But since the use of alum to counteract pitch was well known in the art, we cannot say that the Patent Office or the district court was unreasonable or clearly wrong in finding there was no invention in substituting it for barium in the grinder.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE KUHN

No. 5678. Decided June 30, 1950

[183 F.2d 96; 86 USPQ 352]

1. REISSUE—DILIGENCE IN FILING APPLICATION—STUDY OF PATENT BY PROSPECTIVE ASSIGNEE PRESUMED.
   Held that ordinary prudence would require an assignee, before purchasing a patent, to inspect it to determine its scope, and it must therefore be presumed that the assignee made such an inspection.
2. SAME—SAME—WHERE CLAIMS ARE ENLARGED, PROMPT APPLICATION NECESSARY.
   Where a reissue is sought for the purpose of enlarging the scope of the claims, *Held* that the reissue application should be made within a reasonably short period after the original patent is granted or the patentee will lose his right to a reissue.
3. SAME—SAME—SAME.
   Held that the appellant's action in laying the patent aside for thirteen months without determining whether a reissue was desirable does not constitute that degree of diligence required in order to secure a reissue patent with broadened claims.

APPEAL from Patent Office. Serial No. 490,793.

AFFIRMED.

John G. Sbarbaro (*G. H. Strickland* and *R. R. Candor* of counsel) for Kuhn.

E. L. Reynolds for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of claims 14, 15, 16, and 17 in appellant's reissue application for a patent for new and useful improvements in "Fluid Treating Apparatus," on the ground of laches, and the rejection of claim 16 on prior art as well. The original patent claims, 1 to 13, inclusive, were allowed.

Appellant's original application was filed on September 20, 1937, and matured into Patent No. 2,275,444, dated March 10, 1942. The reissue application here involved was filed on June 14, 1943, which is over 15 months after the grant of the original patent to appellant.

In his brief and in oral argument, counsel for appellant conceded that the application here involved is for "a broadened reissue of the Kuhn Patent No. 2,275,444." The Board correctly held that appellant had exercised due diligence in preparing and filing the reissue application after the discovery that the claims of the Kuhn Patent No. 2,275,444 were too limited in scope, but held that the fourteen month period which elapsed between the issuance of the patent and that discovery is an unreasonable delay.

The questions here presented are whether claims 14 to 17 of the reissue application were properly rejected on the ground of laches and whether claim 16 was properly rejected on prior art.

From the record it appears that appellant's patent was issued on March 10, 1942; that on April 8, 1942 (less than one month thereafter) appellant assigned "approximately twelve patents or applications" for patents of appellant, including the patent here involved, to General Motors Corporation; that immediately thereafter General Motors Corporation entrusted its attorney with the prosecution and study of the patents and applications so assigned; that the immediate necessity of filing certain divisional applications, and the prosecution of the newly acquired pending applications demanded the attorney's concentrated attention for "a substantial period of time thereafter, so that the question of the reissue of Patent 2,275,444 could not be considered and *was not realized to be necessary at that time*" [Italics added]; that during the week of May 3, 1943 (over 13 months after the patent issued) said attorney's "attention was called to apparatus" which he was informed contained the structure defined in the involved claims 14 through 17 and which "was apparently not dominated by the claims of Patent 2,275,444"; that it was not until the week of May 3, 1943, that the said attorney "realized that the said patent was not commensurate with the invention."

There is nothing in the record to show how many patents or how many applications were involved in the assignment to General Motors Corporation. The record does not show how many divisional applications were filed or how many pending applications were prosecuted. Nor does the record disclose how

long a time is meant by "a substantial period of time thereafter." However the record does show that the question of reissue of Patent No. 2,275,444 was not considered and was not realized to be necessary; that the discovery that Patent 2,275,444 "was not commensurate with the invention therein disclosed" was not made through any examination or by reason of any effort or action of appellant, or the General Motors Corporation, or the attorney for General Motors Corporation, but was only discovered during the week of May 3, 1942, when the General Motors Corporation's attorney's "attention was called to apparatus" which the attorney "was informed, contained the structure now defined in present claims 14 through 17."

[1] Ordinary prudence would require an assignee to inspect the application and the patent to determine its scope and sufficiency before purchasing the patent. It must be presumed that General Motors Corporation made an inspection of the application and the patent here involved before purchasing it and that such inspection did not suggest the desirability of filing a reissue application.

There is no statutory requirement limiting the time within which a broadened reissue of a patent may be sought. By analogy to the statutory bar of public use, failure to file for a reissue within two years of the grant of a patent the application for which was filed prior to August 5, 1940, or within one year where the patent sought to be reissued was granted on an application filed subsequent to August 5, 1940, may be considered as an abandonment to the public of matter disclosed but not claimed in a patent.

The case of *In re Croskey et al.*, 35 CCPA (Patents) 864, 165 F.2d 797, 76 USPQ 389, 609 O. G. 471, cited by appellant in support of his contention that he should be excused for his attorney's failure to realize the narrowness of the Kuhn patent, and that his delay is as excusable as the delay in the Croskey case, is not in point. In that case there was no issue raised relating to the question of diligence in the filing of the reissue application, as shown by the court's statement, as follows:

> In the Solicitor's brief it is stated that "It does not appear to be urged by the appellants that their excuse for the delay is sufficient, if the critical period is one year, and it has not been asserted by the Patent Office that the excuse is insufficient if the critical period is two years."

The Croskey case, supra, simply held that there is no statutory requirement limiting the time within which a broadened reissue of a patent must be sought; that the rule against laches in filing of an application for reissue of a patent was drawn by the courts by analogy to the time interval of the public use bar, as clearly pointed out in the case of *Miller* v. *Brass Co.*, 104 U. S. 350, 352, 21 O. G. 201, wherein the Court stated:

> If two years' public enjoyment of an invention with the consent and allowance of the inventor is evidence of abandonment, and a bar to an application for a patent, a public disclaimer in the patent itself should be construed equally favorable to the public. Nothing but a clear mistake, or inadvertence, and a speedy application for its correction, is admissible when it is sought merely to enlarge the claim.

and that where a reissue is sought for the purpose of enlarging the scope of a patent, the rule of laches should be strictly applied.

This court in the case of *In re Seabury*, 27 CCPA (Patents) 777, 108 F.2d 232, 44 USPQ 118, 515 O. G. 3, affirmed the proposition that where a reissue application is filed within two years of the issuance of a patent, the patentee has no absolute right to a reissue presenting broader claims where he is wanting in diligence and promptness in filing the reissue application. [2] No fixed rule can be laid down as to what constitutes an unreasonable delay. Where the reissue is sought for the purpose of enlarging claims, the only mistake suggested being that they are not broad enough, the reissue application should be made within a reasonably short period after the original patent was granted or the patentee will lose his right to a reissue. *Roos Co.* v. *McMillan*, 64 F.2d 568, 17 USPQ 191 (CCA 6th, 1933) cert. den., 290 U. S. 684.

An inspection by the patentee or by the assignee of his patent at any time after it issued would have disclosed the mistake which is claimed to have been made. See *In re Hayes*, 37 CCPA (Patents) 806, 178 F.2d 940, 84 USPQ 245, 634 O. G. 9. And whether they did not inspect it and thus did not discover the mistake, or did inspect it and failed to file a reissue application, they were guilty of negligence effecting an unreasonable delay. There is no evidence that either the patentee or the assignee inspected either the claims or the specification of the patent at any time after the patent issued until the week of May 3, 1942 (more than 13 months after the patent issued) when the assignee's attorney was shown an apparatus by someone, not identified in the record, that contained the structure now said to be defined in present claims 14 through 17, and which was apparently not dominated by the claims of Patent No. 2,275,444.

In *Wollensak* v. *Reiher*, 115 U. S. 96, 99, 31 O. G. 1303, the Supreme Court said:

> It follows from this, that if, at the date of the issue of the original patent, the patentee had been conscious of the nature and extent of his invention, an inspection of the patent, when issued, and an examination of its terms, made with that reasonable degree of care which is habitual to and expected of men, in the management of their own interests, in the ordinary affairs of life, would have immediately informed him that the patent had failed fully to cover the area of his invention. And this must be deemed to be notice to him of the fact, for the law imputes knowledge when opportunity and interest, combined with reasonable care, would necessarily impart it.

In the case of *Crosley Radio* v. *Westinghouse*, 52 F. Supp. 884, 901, 59 USPQ 466, 482 (D. C., W. D. Pa., 1944) (modified on other grounds, 152 F.2d 895, cert. den. 317 U. S. 681), the court, in finding a reissue applicant guilty of laches where the reissue application was filed in less than two years after the date the original patent issued, said: "In other words, patentee and counsel had slept until advancing practice had awakened them. Slumber so disturbed furnishes no basis for new claims by which advancing art may be halted."

[3] In the instant case it appears that the patentee, and the assignee General Motors Corporation, had "slept" until the attention of counsel for General Motors Corporation was called to apparatus which the attorney was informed contained the structure now defined in the appealed claims, and which "was apparently not dominated by the claims of Patent 2,275,444." Appellant's action in laying the patent aside for more than thirteen months after its issue without making any attempt to determine whether or not a reissue was desirable, does not constitute that degree of diligence which is required in order to secure a reissue patent with broadened claims.

As this conclusion disposes of the entire application, we need not consider the rejection of claim 16 on prior art. For the reasons stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,751,249, M. C. Rosenblatt, Acoustic treatment, filed Oct. 5, 1950, D. C., E. D. Pa. (Philadelphia), Doc. 11449, *M. C. Rosenblatt* v. *Philco Corp. et al.*

1,889,499, Rorrer & Mitterer, Apparatus and method for refrigeration; 1,987,796, 2,011,731, same. Refrigerated show case; Re. 21,264, same, Show case, D. C., S. D. Calif. (Los Angeles), Doc. 11788–Y, *Stadium Stores, Inc.* v. *Paramount Refrigeration Distributors et al.* Plaintiffs dismissal with prejudice Aug. 1, 1950.

1,958,219, J. H. H. Voss, Automatic ring plate valve, D. C., N. D. Ill. (Chicago), Doc. 49c1561, *J. H. H. Voss Co., Inc.* v. *Howe Ice Machine Co.* Complaint and counterclaim dismissed Oct. 9, 1950.

1,987,796. (See 1,889,499.) 2,011,731. (See 1,889,499.)

2,027,967, Elmslie & Caldwell, Anthelmintic, filed Oct. 11, 1950, D. C., S. D. Ill., Quincy, Doc. 139–Q, *Moorman Mfg. Co.* v. *Staley Milling Co.*

2,089,209, Keuffel & Gotham, Measuring tape, filed Oct. 11, 1950, D. C., S. D. N. Y., Doc. 61/251, *Keuffel & Esser Co.* v. *Masback, Inc., et al.*

2,151,416, Black & Stroebel, Perforation cleaner, filed Oct. 13, 1950, D. C., N. D. Tex. (Fort Worth), Doc. 2064, *Scratchers, Inc.* v. *Weatherford Oil Tool Co., Inc., et al.*

2,155,295, J. B. Bartow, Airport lighting system, filed Oct. 4, 1950, D. C., S. Dak. (Sioux Falls), Doc. 678, *Bartow Beacons, Inc., et al.* v. *City of Huron, S. Dak.*

2,276,981, E. T. John, Ventilating metal ironing table top, filed Oct. 13, 1950, D. C., W. D. Tex. (Austin), Doc. 540, *The J. R. Clark Co.* v. *Smithville Metal Products Co., Inc.*

2,294,423. (See 2,382,617.) 2,320,350. (See 2,382,617.)

2,327,581. (See 2,382,617.)

2,352,390, E. R. Kirkland, Hydraulic jack, D. C., S. D. Calif. (Los Angeles), Doc. 8654–C, *American Hydraulics, Inc., et al.* v. *The Calnevar Co. et al.* Dismissed without prejudice Sept. 20, 1950.

2,378,139, W. F. Graham, Awning and operating means therefor, filed Oct. 13, 1950, D. C., W. D. Mich. (Grand Rapids), Doc. 1655, *Ron-del, Inc.* v. *Victor Tool & Machine Corp.*

2,382,617, L. del Riccio, Method of photographically recording the order of passage of moving objects; 2,320,350, same, Camera; 2,294,423, same, Photographic apparatus; 2,327,581, same, Motor control apparatus, D. C. Ariz. (Phoenix), Doc. 903, *Photochart et al.* v. *Wilcox Precision Race Camera, Inc., et al.* Stipulation and order for dismissal without prejudice Sept. 25, 1950.

2,455,905, Ronning & Keith, Combine, D. C. Minn. (Minneapolis), Doc. 3276, *Minneapolis-Moline Co.* v. *Deere & Co. et al.* Stipulation and order of dismissal May 1, 1950.

2,489,104, D. S. Murrey, Baby diaper cover, D. C., S. D. Ohio (Columbus), Doc. 2834, *Dryfold Mfg. Co., Inc.* v. *The McConnell Mfg. Co.* Consent decree July 6, 1950.

2,515,817, K. C. Augenstein, Expansion bracelet; Des. 160,185, P. Levinger, Expansible chain for a bracelet, filed Oct. 13, 1950, D. C. N. J., Doc. 772/50, *Speidel Corp.* v. *Classique Jewelry Mfg. Co., Inc.*

Re. 21,053, A. T. Matthews, Awning, D. C. Ariz. (Phoenix), Doc. 1115, *National Ventilated Awning Co.* v. *Koolvent Metal Awning Co.* Dismissed with prejudice Oct. 2, 1950.

Re. 21,264. (See 1,889,499.)

Des. 146,747, H. S. Roemisch, Fly swatter blade, filed Oct. 11, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27762, *The Odor-Swat Co.* v. *Plastic Engineering Co., Inc.*

Des. 153,538, J. L. Moore, Hat, D. C., W. D. Okla. (Oklahoma City), Doc. 4453, *Moore Hat Co.* v. *G. R. Anthony Co.* Injunction Oct. 9, 1950.

Des. 160,185. (See 2,515,817.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 209,795 (*a*), Kingdom of Italy, Snuff, filed Oct. 6, 1950, D. C., S. D. N. Y., Doc. 61/205, *Government of Italy et al.* v. *A. Selmer et al.*

T. M. 209,795, T. M. 523,831 (*b*), Kingdom of Italy, Snuff, suit for declaratory judgment filed Oct. 6, 1950, D. C., S. D. N. Y., Doc. 61/206, *Government of Italy* v. *Previtera Cigar Co.*

T. M. 514,294, American Airlines, Inc., Air transport of passengers and freight, filed Oct. 10, 1950, D. C., S. D. N. Y., Doc. 61/223, *American Airlines, Inc.* v. *Oxnard Sky Freight, Inc., et al.*

T. M. 523,831. (See T. M. 209,795.)

NOTICES

Licensing of Foreign Filing on Filing Receipt to be Discontinued

Under 55 Stat. 657 (35 U. S. C. 42a) a license from the Commissioner of Patents is required before an application for patent may be filed in any foreign country in respect of any invention made in the United States. By the practice announced in Commissioner's Notice dated January 31, 1946 (583 O. G. 387), such license has been provided by the Commissioner on his own motion in the form of a printed endorsement on the reverse side of the filing receipt issued for each new application. This license was effective 60 days from the filing date unless countermanded within that period by a secrecy order.

Effective December 12, 1950, issuance of foreign filing licenses on filing receipts will be discontinued. On and after that date licenses will be obtainable only upon petition to the Commissioner of Patents.

The petition for license may be in letter form addressed to the Commissioner of Patents and directed to the attention of Division 70. A single petition may contain a request for one or more licenses to file applications in foreign countries which include only the subject matter of one or more applications on file in the United States Patent Office. When several United States applications are combined in one petition, the data identifying each of them must be on separate lines double spaced from the data of each other application and wide margins allowed to permit entry of necessary licensing data. Full regulations governing licenses to file applications in foreign countries are published in the Code of Federal Regulations, Title 37, Part 3. Unless foreign filing of the application is considered likely to be detrimental to the public safety or defense, a license will be issued as soon as routine processing can be completed.

Adjudicated Patent

(D. C. Kans.) Mayrath patent No. 2,483,290, for grain loader. Claims 2, 4, 5, 6, and 10 *Held* valid and infringed. *Mayrath v. Hutchinson Mfg. Co.*, 92 F. Supp. 849; 87 USPQ —.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

2,301,929, H. T. Budenbom, Radio distance and altitude indicating system, decided Aug. 31, 1950, claims 1 and 3.

2,418,128, E. Labin and E. M. Ostlund, Impulse generator, decided Aug. 31, 1950, claims 1 and 2.

2,421,912, J. M. Spooner, Electron discharge device of the cavity resonator type, decided Aug. 31, 1950, claims 3, 4, 5, 6, 7, 8, 9, and 10.

2,425,314, C. W. Hansell, Pulse communication system, decided Aug. 31, 1950, claims 18 and 19.

2,438,194, H. L. Steele, Jr., and J. W. McNall, Magnetron, decided Aug. 31, 1950, claims 1 and 2.

2,445,533, R. R. Mondron and R. E. Mondron, Variable fraction plugs, decided Nov. 3, 1950, claim 1.

2,454,498, E. H. B. Bartelink, Signaling and control system for carrier telephone trunk circuits, decided Oct. 13, 1950, claims 1 and 2.

2,457,434, E. H. B. Bartelink, Signaling system for two-way dialing over radio and carrier telephone circuits, decided Oct. 13, 1950, claim 1

2,470,593, P. S. Webb and J. R. Koster, Hardened silicone surfaces, decided Oct. 13, 1950, claim 1.

2,487,525, J. W. Copenhaver, Dialkylidene diethers, decided Nov. 7, 1950, claims 3 and 4.

2,497,683, S. M. Nampa, K. J. Tobin and H. L. Dunlap, Freight loading apparatus, decided Oct. 31, 1950, claims 1, 2, 3, 4, 6, 8, 20, 21, and 33.

Disclaimers

Re. 22,742.—*George R. Ericson*, Kirkwood, Mo. CARBURETOR. Patent dated Apr. 9, 1946. Disclaimer filed Nov. 8, 1950, by the assignee, *Carter Carburetor Corporation*.

Hereby enters this disclaimer to claim 14 of said patent.

1,959,540.—*Fred B. MacLaren*, Malba, N. Y. METHOD AND MEANS FOR INCREASING THE POWER OUTPUT OF A THERMIONIC TUBE. Patent dated May 22, 1934. Disclaimer filed Nov. 2, 1950, by the assignee, *Remco Electronic, Inc.*

Hereby enters this disclaimer to claim 14 of said patent.

2,113,263.—*Julius Gourgues Aceves*, New York, N. Y. ELECTRICAL TRANSMISSION SYSTEM. Patent dated Apr. 5, 1938. Disclaimer filed Nov. 2, 1950, by the assignee, *Remco Electronic, Inc.*

Hereby enters this disclaimer to claims 6, 22, 23, and 27 of said patent.

2,421,733.—*Otto Henning*, St. Louis, Mo. INTERNAL-COMBUSTION ENGINE. Patent dated June 3, 1947. Disclaimer filed Nov. 8, 1950, by the assignee, *Carter Carburetor Corporation*.

Hereby enters this disclaimer to claims 17, 23, 27, and 28 of said patent.

2,421,912.—*John M. Spooner*, Manheim Township, Lancaster County, Pa. ELECTRON DISCHARGE DEVICE OF THE CAVITY RESONATOR TYPE. Patent dated June 10, 1947. Disclaimer filed Nov. 2, 1950, by the assignee, *Radio Corporation of America*.

Hereby enters this disclaimer to claims 3 to 10, inclusive, of said patent.

2,426,501.—*Harold M. Hart*, Cambridge, Mass. METHOD AND APPARATUS FOR RADIO RANGING. Patent dated Aug. 26, 1947. Disclaimer filed Nov. 10, 1950, by the assignee, *Raytheon Manufacturing Company*.

Hereby enters this disclaimer to claims 10, 12, 13, 14, and 15 of said patent.

2,429,642.—*John O. Newton*, Garden City, N. Y. CRAFT CONTROL APPARATUS. Patent dated Oct. 28, 1947. Disclaimer filed Nov. 9, 1950, by the assignee, *The Sperry Corporation*.

Hereby enters this disclaimer to claim 4 of said patent.

2,432,061.—*Isidor Chesler*, Oceanport, N. J. WRITING INSTRUMENT. Patent dated Dec. 2, 1947. Disclaimer filed Nov. 4, 1950, by the assignee, *Eagle Pencil Company*.

Hereby enters this disclaimer as to claim 1 except in so far as necessary to preserve the combination specified by dependent claim 2 and to claim 6 except in so far as necessary to preserve the combination specified by dependent claim 7; and also enters this disclaimer as to claims 3, 4, 5, 8, 9, 10, 22, 25, 26, and 27.

2,439,957.—*Carl R. Anderson*, Detroit, Mich. PUMP FOR LIQUEFIED GASES. Patent dated Apr. 20, 1948. Disclaimer filed Nov. 6, 1950, by the assignee, *Air Products Incorporated*.

Hereby enters this disclaimer to claims 30, 31, 32, 33, 35, 37, and 45.

2,454,498. *Everhard H. B. Bartelink*, Bronxville, N. Y. SIGNALING AND CONTROL SYSTEM FOR CARRIER TELEPHONE TRUNK CIRCUITS. Patent dated Nov. 23, 1948. Disclaimer filed Nov. 8, 1950, by the assignee, *Automatic Electric Laboratories, Inc.*

Hereby enters this disclaimer of claims 1 and 2 of said patent.

2,457,434.—*Everhard H. B. Bartelink*, Bronxville, N. Y. SIGNALING SYSTEM FOR TWO-WAY DIALING OVER RADIO AND CARRIER TELEPHONE CIRCUITS. Patent dated Dec. 28, 1948. Disclaimer filed Nov. 8, 1950, by the assignee, *Automatic Electric Laboratories, Inc.*

Hereby enters this disclaimer of claim 1 of said patent.

2,497,683.—*Sulo Michael Nampa*, Detroit, Mich., *Kenneth J. Tobin*, Chicago, Ill., and *Henry Lee Dunlap*, Dearborn, Mich. FREIGHT LOADING APPARATUS. Patent dated Feb. 14, 1950. Disclaimer filed Oct. 14, 1950, by the assignee, *Evans Products Company*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 6, 8, 20, 21, and 33 of said patent.

Interference Notice

Roth Creations, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Walter Hertz, 90 Rue Dupont, Brussels, Belgium, for registration of a trade-mark and Registration No. 301,749, issued March 14, 1933, to Roth Creations, Incorporated, 30 East 33rd Street, New York, N. Y., and the notice of such declaration sent by registered mail to the said Roth Creations, Incorporated at the said address having been returned by the post office undeliverable, notice is hereby given that unless Roth Creations, Incorporated, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Nov. 8, 1950. *Assistant Commissioner of Patents.*

Cancellation Notice

Howard D. Parsons, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Muzak Corporation, 229 Fourth Avenue, New York 3, New York, to effect the cancellation of trade-mark registration of Howard D. Parsons, 3337 Wyandotte Street, Kansas City, Missouri, No. 519,369, dated December 27, 1949, and the notice of such proceeding sent by registered mail to the said Howard D. Parsons at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Howard D. Parsons, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Nov. 9, 1950. *Assistant Commissioner of Patents.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,520,625. STORM VENTILATOR. Patented Aug. 29, 1950. Ventilator for mounting exteriorly of conventional window frames prevents entrance of rain even though upper sash is open. Side and vertical frames are attached to window frame and held in position by arcuate supports. A canvas covering for the frames is mounted on a roller connected between the side portions of a cover plate and held on the frames by spaced co-acting snaps. Roller may be rotated by operating handle from inside room. (Owner) W. Fred Dean, Route 1, Box 210E, Pensacola, Fla. Groups 23—05; 24—31; 33—83; 34—95. Reg. No. 38,938.

The following eight patents are listed for licensing or sale by Thomas C. Brockhurst, Executor of the Estate of James B. Brockhurst. Correspondence concerning the patents should be directed to Louis L. Ansart, 15 Park Row, New York 7, N. Y.

Pat. 2,102,254. METHOD AND APPARATUS FOR BUILDING SEA WALLS. Patented Dec. 14, 1937. Reg. No. 38,939.

Pat. 2,272,236. METHOD OF AND APPARATUS FOR BUILDING SEA WALLS. Patented Feb. 10, 1942. Reg. No. 38,940.

These two patents provide methods and apparatus for constructing sea walls and like structures. A suitable mold is lowered into the upper end of a coffer dam, and dam partially filled with sand so that the sand will extend upwardly in the shape of a truncated cone to form bottom of mold. A tube to receive compressed air and water pipes is then lowered into center of mold until its lower end contacts the sand. After a cement block has been cast in the mold and allowed to set, jets of compressed air and water are used to scour the sand beneath the block and force it out through the tube so that the block will descend by gravity until top of block becomes bottom of mold. A second block is then cast on top of first block, and both blocks caused to descend by gravity in the same way, and so on until first tier is completed. Front end of coffer dam is then removed, the dam extended, and mold shifted to construct a second tier in the same way, and the operation repeated for successive tiers. Group 32—71.

Pat. 2,282,027. METHOD OF CASTING CEMENT. Patented May 5, 1942. This patent provides a method of casting a line of cement blocks to form the top layer of a previously constructed jetty or like structure. A tractor carrying a pivoted mold having front and side walls only is advanced along a previously constructed portion of the top layer, and mold lowered to cast a block at the forward edge of the layer. After the cast block has set sufficiently to support tractor, mold is raised, tractor advanced and mold lowered to cast a second block at forward edge of first block, and so on until entire top layer is completed. As tractor is advanced, the sides of the mold hug a previously cast block to guide tractor. Group 32—71. Reg. No. 38,941.

Pat. 2,322,819. SHEET PILING. Patented June 29, 1943. Sheet metal pile is made to uniformly taper from one end to the other by forming it with a longitudinal channel or corrugation that progressively increases in cross-sectional area from one end to the other. The pile is formed with integral locking means along its longitudinal edges to slidably interlock with similar locking means of adjacent piles, regardless of whether the adjacent piles are arranged with their broad or narrow ends uppermost. Groups 32—71; 33—81. Reg. No. 38,942.

Pat. 2,410,565. ENGINE. Patented Nov. 5, 1946. Reg. No. 38,943.

Pat. 2,410,958. ENGINES OPERATING COAXIAL SHAFTS. Patented Nov. 12, 1946. Reg. No. 38,944.

In the engines of these two patents, the upper end of each piston is formed with a combustion chamber having angular vanes so that the expansive force of the products of combustion will simultaneously rotate the piston and project it axially. In Pat. 2,410,565 the combined rotative and axial force of the pistons is transmitted to rotate a crankshaft. In the other patent the axial force of the pistons is transmitted to rotate a crankshaft, and the rotative force of piston transmitted to independently rotate a second shaft telescoped within the crankshaft. Group 35—12—19.

Pat. 2,283,721. SELF-SHARPENING SAFETY RAZOR. Patented May 19, 1942. Reg. No. 38,945.

Pat. 2,353,142. SELF-SHARPENING SAFETY RAZOR. Patented July 11, 1944. Reg. No. 38,946.

Each safety razor of these two patents is so designed that the blade therein may be sharpened without dismantling razor. The blade is first released to partially unclamped position so that a finger piece on handle in back of head may be manipulated to move blade back and forth beneath abrasive edges of cap of razor to sharpen blade. In one patent, the guard engages the blade and is movably mounted on the head so that it may be shifted by finger piece to move blade back and forth. In the other patent an actuator engaging the blade is movably mounted on the head. Group 33—51.

Pat. 2,499,291. DEVICE FOR PEELING POTATOES. Patented Feb. 28, 1950. Potato peeling attachment for use with a dish-washing machine comprises a cylindrical container having an inner abrasive coating. The circular plate forming the bottom of the container may be interlocked to driving shaft of dish-washer after dish-basket has been removed. Spaced limbs extending downwardly and inwardly below container are connected by a flange which has a centering sleeve to cooperate with bearing sleeve in bottom of dish-washing machine. Metallic tongue on inner wall of container stirs the potatoes as machine rotates. Potatoes are scraped as they come in contact with the abrasive-coated walls. (Owner) Jean Baumann, 14 rue du Mont Blanc, Geneva, Switzerland. Group 35—51—89. Reg. No. 38,947.

Des. 157,279. METER CASE FOR SELF-SERVICE GASOLINE PUMPS. Patented Feb. 14, 1950. (Owner) Edward J. O'Toole, % Mexico City College, San Luis Potosi #154, Mexico, D. F., Mexico. Group 35—61. Reg. No. 38,948.

Pat. 2,429,769. SELF-LOCKING HOOK. Patented Oct. 28, 1947. Self-locking hook for releasably supporting various objects such as rafts, cargo, parachutes, etc. A hook pivoted to end of a frame has a rounded portion to engage roller at end of a lever when in locking position. Other end of lever is attached to a gear which meshes with gear in the operating handle. Hook is manually released by a cord at end of handle, and a ring connected with a load slides off hook. (Owner) Justin Petouhoff, 164 East 7th St., New York 9, N. Y. Groups 33—59; 37—21—22. Reg. No. 38,949.

Pat. 2,512,222. TRAILER HITCH BALL COVER. Patented June 20, 1950. Cover for a trailer hitch ball has downwardly extending flanges. Apron pivoted to flanges extends downwardly to encompass free end of pull bar. Pawl on apron engages lip on top of cover and locks apron in position. Cover may be manually swung away from body of vehicle for access to luggage compartment, and the apron protects cover from damage. (Owner) Joseph L. Brock, Fawn Grove, Pa. Groups 35—69; 38—31—41. Reg. No. 38,950.

Pat. 2,517,176. TRAILER HITCH BALL COVER. Patented Aug. 1, 1950. Cover for ball of a trailer hitch stud. A box-like body has rectangular recess in lower portion in which is seated a clamping member. Body and member have aligned recesses forming a seat for the ball. Cover is clamped on the ball by bolts extending through body and clamping member. (Owner) Joseph L. Brock, Fawn Grove, Pa. Groups 35—69; 38—31—41. Reg. No. 38,951.

Pat. 2,513,625. MULTICOMPARTMENT CONDIMENT HOLDER. Patented July 4, 1950. Combination condiment holder and shaker consists of a large compartment for sugar, and two smaller integral non-communicating compartments for salt and pepper positioned angularly within the sugar compartment. Each compartment is closed by a finger-operated spring lever. Contents of any compartment may be delivered by opening the outlet and shaking device. (Owner) Herbert Cole, 208 Walnut St., Chelsea 50, Mass. Groups 32—62; 34—41; 39—81. Reg. No. 38,952.

Pat. 2,521,841. AIR COOLING BY EVAPORIZATION OF WATER. Patented Sept. 12, 1950. Air cooling unit consists of a pair of honeycombed heat exchangers enclosed in a casing having front and rear windows. The unit includes a pump, filter, fan, etc. The device depends on rapid evaporation of water trickling through the cells of the heat exchangers by air passing upwardly through the same cells. This reduces the temperature within the unit so that additional air forced through both exchangers is cooled. Water not evaporated falls into a lower pan and is re-circulated to be continuously sprayed on the exchangers. This latter action continues as long as the cooling unit is in operation. (Owner) Herman G. Forrester, 613 East 5th St., Chattanooga, Tenn. Group 35—84. Reg. No. 38,953.

Pat. 2,520,555. STORING AND FEEDING STRUCTURE FOR STOCK. Patented Aug. 29, 1950. Sufficient dry grain for a required period is stored within an enclosure, such as a Quonset hut, along which posts and rails are arranged. A movable gate strung with a number of cables covers the front of the stack to compel cattle and other stock to feed in a regular manner so that waste is minimized. During feeding the gate is pushed toward the stacked hay and only the outside of the stack is accessible. To supplement the dry fodder, grain bins are suspended from the rails. The bins are closed containers having a bottom closure device that forms a kind of trough. (Owner) William A. Major, Monica, Ill. Group 35—22. Reg. No. 38,954.

General Electric Company offers the following patents for non-exclusive licensing. Applications for licenses should be addressed to the Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,512,306. COLUMN SPRING SWITCH. Patented June 20, 1950. Snap action switch of the column spring type has an elongated switch arm of spring metal maintained in bowed condition by a resilient member engaging free end of the arm. The switch arm may be snapped through center from one bowed position to an oppositely bowed position and maintain high contact pressure in either position. Group 36—11—19. Reg. No. 38,955.

Pat. 2,512,405. CENTRIFUGAL MECHANISM. Patented June 20, 1950. Centrifugal snap action switch mechanism to be mounted on the shaft of a dynamoelectric machine will open when speed of machine reaches a predetermined value to de-energize the starting windings of machine. Group 36—11—19. Reg. No. 38,956.

Pat. 2,513,950. ELECTRIC SWITCH. Patented July 4, 1950. Multi-stage cam-operated switch includes rocker arms carrying resiliently mounted contact bridging members, each having a pair of spaced contacts to engage a pair of stationary contacts, and rotatable cams to rock the arms. The contact bridging members are mounted to move with the rocker arms and relative thereto to provide wiping action and uniform contact pressure on the stationary contacts. Group 36—11—19. Reg. No. 38,957.

Pat. 2,513,952. ELECTRIC SWITCH CONTACT MOUNTING DETAIL. Patented July 4, 1950. Reg. No. 38,958.

Pat. 2,513,953. ELECTRIC SWITCH. Patented July 4, 1950. Reg. No. 38,959.

These two patents provide high voltage switches for changing transformer connections. Comprises five spaced tubes between a pair of end plates. One tube mounted for rotation carries three equally spaced segments with an arcuate bridging contact on the outer end of each segment. Each of the other tubes is stationary, and each has three equally spaced tubular arms with a contact on the end of each arm. All parts, except the contacts, are made of strong insulating material. Group 36—11—19.

Pat. 2,513,986. ELECTROMAGNETIC SWITCH. Patented July 4, 1950. Electromagnetic switch for starting system of an automatic washing machine includes a housing divided by a web into a relay compartment and a switch compartment with an open-ended sleeve carried by the web extending into both compartments. The sleeve serves as a mount for a relay coil and also as a guide for a freely slidable plug functioning as an armature. A laterally extending capacitor compartment is integrally formed with the housing. Groups 35—81—82; 36—11—19. Reg. No. 38,960.

These twelve patents provide thermal switches of the cathode glow discharge type for starting and operating fluorescent lamps. The switches automatically close to heat the lamp electrodes to electron-emissive temperature, and then open to cause lamp to light. Groups 34—81; 36—11—19—51.

Pat. 2,280,550. THERMAL SWITCH. Patented Apr. 21, 1942. Contains a U-shaped bi-metallic element and a switch contact member both transversely mounted to provide a switch of exceptionally small size. Reg. No. 38,961.

Pat. 2,284,103. THERMAL SWITCH. Patented May 26, 1942. Contains a high resistance element to limit the glow discharge current without limiting the current which passes through the switch contacts when closed. Reg. No. 38,962.

Pat. 2,294,203. STARTING APPARATUS FOR ELECTRIC DISCHARGE LAMPS. Patented Aug. 25, 1942. Contains a small resistance heater to supply a limited amount of heat to the bi-metallic element after switch contacts close to delay opening of the contacts. Reg. No. 38,963.

Pat. 2,324,906. THERMAL SWITCH. Patented July 20, 1943. Reg. No. 38,964.

Pat. 2,324,907. THERMAL SWITCH. Patented July 20, 1943. Reg. No. 38,965.

Pat. 2,332,809. GLOW SWITCH. Patented Oct. 26, 1943. Reg. No. 38,966.

Switches of these three patents are designed to maintain the starting potential the same in the dark as in the light. One contains a small amount of radio-active material, another a member of uranium glass, and the other two electrically conductive paths.

Pat. 2,329,134. THERMAL SWITCH. Patented Sept. 7, 1943. Designed for operation within a predetermined range of ambient temperature so that the starting potential is not affected by changes in ambient temperature within such range. Reg. No. 38,967.

Pat. 2,333,710. DISCHARGE DEVICE. Patented Nov. 9, 1943. Electrodes of switch are coated with a mixture of pure alkaline earth metal and radio-active material to minimize starting time without increasing the starting and operating voltage. Reg. No. 38,968.

Pat. 2,376,869. GLOW SWITCH FOR STARTING DISCHARGE DEVICES. Patented May 22, 1945. Contains two spaced bimetallic elements of different thickness arranged to obtain fast starting. Reg. No. 38,969.

Pat. 2,398,128. STARTING CONTROL FOR ELECTRIC DISCHARGE DEVICES. Patented Apr. 9, 1946. Reg. No. 38,970.

Pat. 2,408,493. STARTING CONTROL FOR ELECTRIC DISCHARGE DEVICES. Patented Oct. 1, 1946. Reg. No. 38,971.

These two switches will light a non-defective lamp in the usual manner, but will prevent flickering of a defective lamp if lamp fails to light after several operating cycles of switch.

Pat. 2,427,741. THERMAL SWITCH. Patented Sept. 23, 1947. Contains two spaced bi-metallic elements that will deflect the same amount in the same direction until heated to a certain temperature. Heated further, the first element either slows up, stops, or reverses its direction of deflection, while progressive deflection of the other element continues until it engages first element. Reg. No. 38,972.

Pat. 1,951,225. MOTOR CONTROL SYSTEM. Patented Mar. 13, 1934. Control automatically varies the speed of a feed motor for feeding work to grinding machines to maintain the load on the grinder substantially constant. Particularly suitable for a grindstone to which wood is fed. The drive shaft of the stone may be mounted for limited radial movement so that a pressure-responsive device will respond to such movement to vary speed of feed motor. Groups 35—53; 36—19. Reg. No. 38,973.

Pat. 2,344,294. ELECTROMAGNETIC INDUCTION APPARATUS. Patented Mar. 14, 1944. Electromagnetic induction apparatus utilizes three pre-formed conductive winding structures, one for each phase of a three-phase electrical system, and three wound-strip magnetic cores assembled with the winding structures. Each winding structure is formed with an opening between the winding legs for the reception of the core material. The winding structures are placed side by side in a row with two of the cores each surrounding winding legs to two adjacent winding structures. The third core surrounds the other cores. Group 36—19—61. Reg. No. 38,974.

Pat. 2,512,318. HYDROSTATIC SIPHON CIRCULATION CONTROL FOR THERMOSIPHON HEAT TRANSFER SYSTEMS. Patented June 20, 1950. Provides thermostatic control arrangement for starting and stopping thermosiphon circulation from a boiler or other heated liquid container to a heat exchanger by rendering hydrostatic siphon in the system effective or ineffective. Group 33—65. Reg. No. 38,975.

Pat. 2,512,905. BAFFLE AND END SHIELD ASSEMBLY FOR DYNAMOELECTRIC MACHINES. Patented June 27, 1950. Baffle and end shield assembly for fan-cooled dynamoelectric machines. The baffle member, which is used for directing the cooling medium from the fan to machine, is securely held in place by a self-locking connection when the end shield is secured to the stator shell. Baffle is easily removed. Group 36—19. Reg. No. 38,976.

Pat. 2,513,920. FLUID-COOLED ELECTRIC DISCHARGE DEVICE. Patented July 4, 1950. High frequency electric discharge device includes a fluid-cooled grid electrode structure. Provides a cooled system of electrodes in a structure having relatively short conductive connections with each of the electrodes so that lead-in inductance is minimized. Group 36—61—92. Reg. No. 38,977.

Pat. 2,513,965. COIL RETAINING MEANS. Patented July 4, 1950. Provides shock proof means for retaining a coil on a core member of an electromagnet. Consists of split washer to be slipped into an annular groove in the core member, and a spring to maintain the coil against the washer so that the head of core member engages a countersink around opening of washer. Group 36—19. Reg. No. 38,978.

Pat. 2,514,925. HIGH-FREQUENCY ELECTRIC DISCHARGE DEVICE AND SYSTEM THEREFOR. Patented July 11, 1950. Discharge device of the space-resonant type includes a transverse conductive disk-like member constituting an externally accessible high frequency terminal for the anode, and a second similar transverse conductive member constituting an externally accessible high frequency terminal for the cathode and grid. A pair of co-axial conductive cylindrical members have their lower ends directly abutting on the transverse conductive members. Group 36—61—92. Reg. No. 38,979.

Pat. 2,514,935. VARIABLE IMPEDANCE APPARATUS. Patented July 11, 1950. Electronically controlled variable impedance for regulating alternating current of a load circuit includes a pair of electron discharge devices with one connected across a substantial portion of secondary winding of a transformer, and the other connected in series with a resistor as a voltage divider across another portion of the secondary winding. Group 36—61—92. Reg. No. 38,980.

Pat. 2,515,763. DIRECT CURRENT RESTORATION CIRCUIT FOR TELEVISION. Patented July 18, 1950. Provides a corrective circuit for a direct current restorer of a television amplifier to increase the ability of restorer to compensate for changes in the wave form of a received signal in order to stabilize the reference level. Group 36—61. Reg. No. 38,981.

Pat. 2,515,775. HIGH-TEMPERATURE COBALT ALLOY. Patented July 18, 1950. Heat- and corrosion-resistant cobalt alloy characterized by good rupture strength and ductility at elevated temperatures is particularly suitable for fabrication of buckets and other working parts of gas turbines and the like. It consists of cobalt, chromium, nickel, tungsten, molybdenum, iron, manganese, silicon, carbon, titanium, and boron. Groups 33—11—12; 35—11. Reg. No. 38,982.

Pat. 2,515,776. RESERVOIR AND LIQUID SUPPLY SYSTEM FOR STEAM IRONS. Patented July 18, 1950. The valve arrangement of this steam iron for controlling flow of water from the reservoir into the steam generating chamber is designed to prevent flow into the chamber when the iron is up-ended on its heel even with reservoir completely full. Discharge orifice valve is shielded from heat of soleplate to minimize formation of deposits on orifice. Group 36—21. Reg. No. 38,983.

Pat. 2,515,784. BUS BAR PROTECTION SYSTEM WITH CURRENT POLARIZED DIRECTIONAL CURRENT RELAY. Patented July 18, 1950. Relates to a system of relays for protection of a bus bar connected to a plurality of electrical power sources and feeder lines. Provides directional relay protection for an electrical fault on bus bar without the use of voltage polarization or the requirement of a source of short circuit current (such as a generator) to provide current polarization. Group 36—19. Reg. No. 38,984.

Pat. 2,515,790. CERAMIC DIELECTRIC MATERIAL AND METHOD OF MAKING. Patented July 18, 1950. Relates to the manufacture of ceramic dielectric elements (for television filter capacitors, etc.) from barium titanate and a fluoride of the group consisting of alkaline earth fluorides and lead fluoride. The usual fabricating and firing techniques are employed, except that the compacted raw dielectric elements are completely surrounded by zirconia sand during the firing. Group 36—61. Reg. No. 38,985.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 5, 1950

[VOL. 641. No. 1]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 523,457. EARL E. BRENNER, Dayton, Ohio. Filed June 3, 1947.

Gems of Travel

The word "Travel" is disclaimed.

FOR LUGGAGE—NAMELY, SUITCASES, WARDROBE CASES PULLMAN CASES, TRUNKS AND BRIEF CASES; PERSONAL LEATHER GOODS—NAMELY, BILLFOLDS, KEY CASES, PURSES, WALLETS, AND PORTFOLIOS; AND IDENTIFICATION TAGS OF LEATHER AND IDENTIFICATION TAG HOLDERS.

Claims use since Apr. 19, 1947.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 508,103. CROWN FASTENER CORPORATION, Warren, R. I. Filed Aug. 27, 1946.

The elongated representation of a window opening is disclaimed.

FOR SEPARABLE SLIDE FASTENERS KNOWN AS "ZIPPERS."

Claims use since May 27, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 526,036. WESTERN TABLET & STATIONERY CORPORATION, Dayton, Ohio. Filed July 3, 1947.

FAVORITE

FOR PAPER TABLETS; ACCOUNT, DATA, AND ORDER BOOKS; LOOSE WRITING PAPER FOR SCHOOL OR OFFICE USE, PUT UP IN WRAPPED PACKAGES, BOXES, OR BANDED; LOOSE PAPER FOR DRAWING OR OTHER ART PURPOSES, PUT UP IN WRAPPED PACKAGES, BOXES, OR BANDED; PAPETERIES, I. E., STATIONERY COMPRISING ENVELOPES AND/OR PAPER EITHER FLAT OR FOLDED PUT UP IN BOXES, PORTFOLIOS, OR BANDED PACKAGES; ENVELOPES; PAPER PACKETS OR FOLDERS FOR LOOSE PAPER, AND INDEX CARDS OR GUIDES.

Claims use since 1904.

CLASS 39

CLOTHING

Ser. No. 509,168. PROTEXALL APRON COMPANY, Green Lake, Wis. Filed Sept. 16, 1946.

PROTEXALL APRON CO.

The words "Apron Co." are disclaimed.

FOR WOMEN'S WATERPROOF CAPES FOR USE DURING THE WASHING OF THE HAIR.

Claims use since Oct. 15, 1944.

Ser. No. 523,511. J. R. BEATON CO., INC., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa., a corporation of Pennsylvania. Filed June 4, 1947.

"As You Like It"

FOR FABRIC GLOVES.

Claims use since Apr. 30, 1947.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 523,483. THE SEAMLESS RUBBER COMPANY, New Haven, Conn. Filed June 3, 1947.

SR SEAMLESS

The words and numerals "Seamless—Finest Quality Since 1877" are disclaimed.

FOR THERAPEUTIC RUBBER GOODS—NAMELY, WATER BOTTLES, COMBINATION BAGS USED AS HOT AND/OR COLD WATER BAGS, ICE BAGS, FACE BAGS, THROAT BAGS, SPINAL BAGS, DOUCHE BAGS, ICE CAPS, ICE CAP COVERS, INVALID CUSHIONS, BULB INFLATORS, SURGICAL TUBING, CRUTCH TIPS, CATHETERS, URINALS, SURGEONS' FINGER COTS, NURSING BOTTLE NIPPLES, NIPPLES TO FEED BABY LAMBS, MEDICINE DROPPERS, ATOMIZER BULBS, VAGINAL SPRAY DOUCHES, SURGEONS' GLOVES, POST-MORTEM GLOVES, OBSTETRICAL GLOVES, EAR SYRINGES, NASAL SYRINGES, BULB SYRINGES, INFANTS' ENEMA SYRINGES, FOLDING SYRINGES, FOUNTAIN TYPE SYRINGES, HARD RUBBER PIPES USED TO CONVERT WATER BAGS OR BULBS INTO SYRINGES, BREAST PUMPS, WASHERS FOR USE ON STOPPLES FOR WATER BOTTLES, STOPPLES FOR USE ON NURSING BOTTLES AND FACE BAGS, SCREW CONNECTIONS TO FASTEN TUBING AND PIPES TO FOUNTAIN SYRINGES, SHUT-OFF METAL CLIP ATTACHMENTS FOR USE ON RUBBER TUBING OF FOUNTAIN SYRINGES; AND FOR SURGICAL DRESSINGS—NAMELY, ABSORBENT GAUZE, GAUZE SPONGES, GAUZE PADS, GAUZE BANDAGES, MUSLIN BANDAGES, PLAIN ADHESIVE COMPRESSES, COTTON ROLLS, COTTON BALLS, SURGICAL CRINOLINE, LAMINO PADDING USED FOR POST-OPERATIVE DRESSING, CELLULOSE WADDING, MATERNITY PADS, ADHESIVE PLASTERS.

Claims use since Aug. 14, 1924, as to letters "SR"; and since Nov. 3, 1945, as shown.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 523,853. ORANGE SMILE SIRUP COMPANY, St. Louis, Mo. Filed June 9, 1947.

COMMANDER

Applicant owns Registration No. 310,613.

FOR NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FLAVORING SYRUPS FOR MAKING THE SAME.

Claims use since Jan. 11, 1945.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 522,706. DONALD A. BATTISTE, doing business as Bat-O-Lite Company, Philadelphia, Pa. Filed May 20, 1947.

BAT-O-LITE A

The letter "A" and the suffix "Lite" are disclaimed.

FOR A COMPOUND SOLD IN BULK TO COMMERCIAL AND INDUSTRIAL BAKERS FOR USE AS A REPLACEMENT FOR SHORTENING AND FOR IMPROVING THE FLAVOR AND QUALITY OF BAKER PRODUCTS, INCLUDING WHEAT FLOUR, CEREAL STARCH, DEXTROSE, CREAMERY BUTTER, SALT, LEAVENING, AND ARTIFICIAL FLAVORS.

Claims use since Jan. 1, 1944.

Ser. No. 524,301. COMMANDITAIRE VENNOOTSCHAP ONDER DE FIRMA C. J. VAN HOUTEN & ZOON, doing business as C. J. van Houten & Zoon, Weesp, Holland. Filed June 17, 1947.

VH

FOR COCOABEANS, COCOA, COCOABUTTER, CHOCOLATE, PUDDING POWDER, CANDIES, BISCUITS, CAKE, CRACKERS, TOAST, GINGERBREAD, PLAIN FLOUR WAFERS, WAFER SANDWICHES, SYRUP WAFFLES—NAMELY, TWO WAFFLES HELD TOGETHER BY SYRUP; AND CONFECTIONERY ARTICLES COVERED WITH CHOCOLATE—NAMELY, CAKE, CRACKERS, TOAST, GINGERBREAD, PLAIN FLOUR WAFERS AND WAFER SANDWICHES.

Claims use since Nov. 23, 1938.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 516,291. JEAN-PASCAL LORRIAUX & CIE., Paris, France. Filed Jan. 24, 1947.

Radar

FOR PERFUMES.

Claims use since Nov. 27, 1945.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 550,240. LEHIGH VALLEY COAL SALES COMPANY, New York, N. Y. Filed Feb. 20, 1948.

LEHIGH VALLEY LV COAL SALES CO.

The drawing is lined for the color red. The words "Coal Sales Co." are disclaimed. Applicant claims ownership of Registration No. 199,765.

FOR COAL.

Claims use since Mar. 1, 1912.

Ser. No. 573,383. JEROME PERLMUTTER, New York, N. Y. Filed Feb. 5, 1949.

FOOLSTONE

FOR A DRY POWDER WHICH WHEN COMBINED WITH WATER FORMS A CLAY-LIKE MASS SUITABLE FOR MODELING, MOLDING, AND VENEERING FOR USE IN ARTS, CRAFTS, AND INDUSTRY; AND WHICH HARDENS UPON DRYING TO A FIRMNESS AND TEXTURE RESEMBLING SANDSTONE AND WILL ADHERE TO ANY SURFACE.

Claims use since July 18, 1948.

Ser. No. 575,431. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Mar. 14, 1949.

FUR-AG

FOR FURFURAL RESIDUE—NAMELY, PULP BY-PRODUCT DERIVED FROM THE MANUFACTURE OF FURFURAL USED IN THE PREPARATION OF MOLDS FOR CASTING.

Claims use since Dec. 3, 1948.

Ser. No. 575,740. HERCULES POWDER COMPANY, Wilmington, Del. Filed Mar. 5, 1949.

Poly-pale

Applicant claims ownership of Registration No. 396,810.

FOR NATURAL RESIN FOR USE IN VARNISHES, SYNTHETIC RESINS, INKS, ADHESIVES, CORE OILS, RESINATES, AND OTHER USES WHERE HIGH-MELTING, NON-CRYSTALLIZING RESIN IS REQUIRED.

Claims use since Sept. 12, 1941.

Ser. No. 579,826. NEW YORK COAL SALES COMPANY, Columbus, Ohio. Filed June 1, 1949.

CITATION

FOR COAL.

Claims use since Sept. 1, 1948.

Ser. No. 586,579. AMERICAN SPONGE AND CHAMOIS COMPANY, INC., New York, N. Y. Filed Oct. 20, 1949

AMSCO SUPER-SPONGE

The words "Super" and "Sponge" are disclaimed.

FOR SPONGES.

Claims use since Aug. 9, 1949.

Ser. No. 587,938. CRAYERES, CIMENTERIE ET FOURS A CHAUX D'HARMIGNIES, SOCIETE ANONYME, Harmignies, Belgium. Filed Nov. 17, 1949.

CRAIES • CHALK • WHITING • TIZA C.C.C. BRAND

The words "Craies," "Chalk," "Whiting," "Tiza," and "Brand" are disclaimed. Applicant claims ownership of Belgian Registration No. 1891 dated Jan. 10, 1949.

FOR CHALK.

Ser. No. 592,316. ENERGIZED MATERIALS CORPORATION, Chicago, Ill. Filed Feb. 11, 1950.

FORCED FILM

The word "Film" is disclaimed.

FOR THIN TRANSPARENT PLASTIC SHEETS IN SHEET OR ROLLED FORM AS SOLD TO THE TRADE.

Claims use since Dec. 29, 1949.

Ser. No. 592,664. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Feb. 17, 1950.

FURAFIL

FOR FURFURAL RESIDUE, A PULP BY-PRODUCT DERIVED FROM THE MANUFACTURE OF FURFURAL.

Claims use since Dec. 7, 1949.

Ser. No. 598,738. MAY SEED & NURSERY CO., doing business as Earl May Seed Co., Shenandoah, Iowa. Filed June 7, 1950.

The words "Baby Chicks" and the representation of a baby chick are disclaimed.
FOR BABY CHICKS.
Claims use since 1928.

CLASS 2
RECEPTACLES

Ser. No. 496,017. MARY DUNHILL, INC., New York, N. Y. Original filed, act of 1905, Feb. 5, 1946; amended to application under act of 1946, Principal Register, Jan. 30, 1948.

SCENTINEL

FOR EMPTY GLASS PERFUME FLACONS FITTED IN A METAL CASE MADE OF BRASS OR PRECIOUS METAL.
Claims use since Jan. 11, 1941.

Ser. No. 526,189. BIJUR LUBRICATING CORPORATION, Long Island City, N. Y. Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Principal Register, July 20, 1950. (Sec. 2f.)

BIJUR

Applicant claims ownership of Registration No. 280,010.
FOR LUBRICANT TANKS AND RESERVOIRS TO BE SOLD INDIVIDUALLY AS LUBRICANT TANKS AND RESERVOIRS OR AS REPLACEMENT PARTS OR AS A PART OF A COMPLETE LUBRICATING SYSTEM OR INSTALLATION.
Claims use since January 1923.

Ser. No. 544,806. WORTENDYKE MANUFACTURING COMPANY, Richmond, Va. Filed Dec. 18, 1947. (Sec. 2f.)

SILVER STEEL BAGS

No claim is made to the word "Bags." Applicant claims ownership of Registration No. 126,372.
FOR PAPER BAGS.
Claims use since September 1913.

Ser. No. 560,863. CELLU-FIBRE CAN CORPORATION, Brooklyn, N. Y. Original filed, act of 1946, Supplemental Register, July 8, 1948; amended to application, Principal Register, Sept. 21, 1949.

LIQUATITE

FOR CARDBOARD CONTAINERS FOR LIQUIDS HAVING METAL TOPS AND BOTTOM.
Claims use since May 23, 1947.

Ser. No. 562,813. MILLER R. WHITE, Dallas, Tex. Filed Aug. 4, 1948. (Sec. 2f.)

RIO GRANDE

FOR HAND PAINTED WOODENWARE—NAMELY, SALAD BOWLS, FRUIT BOWLS, AND SERVING TRAYS.
Claims use since February 1940.

Ser. No. 572,006. BRAND BAG & PAPER CO., INC., New York, N. Y. Filed Jan. 11, 1949.

HOME MAID

FOR WAXED AND UNWAXED PAPER BAGS FOR FOODSTUFFS.
Claims use since May 1948.

Ser. No. 578,410. PLASTIC PRODUCTS COMPANY, INC., Corpus Christi, Tex. Filed May 7, 1949.

AUTO PAK

The word "Pak" is disclaimed.
FOR TRANSPARENT PLASTIC CLOTHING OR GARMENT BAGS FOR THE STORING OF CLOTHING.
Claims use since Jan. 15, 1949.

Ser. No. 592,198. EMPIRE BOX CORPORATION, Garfield, N. J. Filed Feb. 9, 1950.

FUN PAK

The word "Pak" is disclaimed.
FOR CARTONS FOR ICE CREAM AND SIMILAR PRODUCTS.
Claims use since Dec. 29, 1949.

CLASS 4
ABRASIVES AND POLISHING MATERIALS

Ser. No. 540,963. ARMOUR AND COMPANY, doing business as Armour Sandpaper Works, Chicago, Ill. Filed Nov. 13, 1947.

NUFLEX

FOR COATED ABRASIVE PRODUCTS HAVING A FLEXIBLE BACKING WITH AN ABRASIVE SECURED TO THE BACKING BY AN ADHESIVE.
Claims use since 1928.

Ser. No. 558,371. THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed June 3, 1948. (Sec. 2f.)

TREADWEAR

FOR WAX IN LIQUID FORM FOR POLISHING, PRESERVING, AND PROTECTING FLOORS.
Claims use since Nov. 3, 1933.

Ser. No. 583,011. WAXED SILICONE PRODUCTS, INC., Miami, Fla. Filed Aug. 4, 1949.

Sil-i-kleen

The word "Kleen" is disclaimed.
FOR METAL POLISHES, AUTOMOBILE POLISHES, LEATHER POLISHES, AND FLOOR POLISHES.
Claims use since Oct. 1, 1948.

CLASS 5
ADHESIVES

Ser. No. 585,146. SWIFT & COMPANY, Chicago, Ill. Filed Sept. 21, 1949. (Sec. 2f.)

SAMPSON

FOR GLUE.
Claims use since Feb. 14, 1927.

CLASS 6
CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 549,278. RIVERDALE CHEMICAL COMPANY, Harvey, Ill. Filed Feb. 10, 1948.

WEEDESTROY

FOR PREPARATION FOR KILLING WEEDS, CONTAINING AS THE ACTIVE INGREDIENT, HALOGENATED PHENOXY ACETIC ACID AND THEIR DERIVATIVES.
Claims use since Mar. 1, 1945.

Ser. No. 554,994. JOSEPH MIDDLEBY JR. INC., Boston, Mass. Filed Apr. 19, 1948.

MIDDLE

Applicant claims ownership of Registration No. 84,655.
FOR BI-CARBONATE SODA, GLYCERINE, CREAM OF TARTAR, SUBSTITUTE FOR CREAM OF TARTAR, CITRIC ACID SOLUTION, PHOSPHATE SOLUTION.
Claims use since 1916.

Ser. No. 569,976. KIDDE MANUFACTURING CO., INC., Bloomfield, N. J. Filed Dec. 4, 1948.

JET KING

FOR CARBON DIOXIDE.
Claims use since Oct. 5, 1948.

Ser. No. 578,085. KNAPP-MONARCH COMPANY, St. Louis, Mo. Filed May 2, 1949.

SPRAYLET

FOR FILLED GERMICIDE AND INSECTICIDE DISPENSERS IN THE NATURE OF NON-MECHANICAL PRESSURE TYPE CANISTERS.
Claims use since January 1949.

Ser. No. 579,717. SMITHS MOTOR ACCESSORIES LIMITED, London, England. Filed May 28, 1949.

JACKALL

Applicant claims ownership of Great Britain Registration No. 659,598.
FOR FLUID FOR USE IN HYDRAULIC JACKING SYSTEMS FOR MOTOR VEHICLES AND AIRCRAFT.
Claims use since 1930 in Great Britain; and first used in commerce between foreign nations and the United States on February 1949.

Ser. No. 582,478. GERALD P. HUDGINS, doing business as The Dura-Life Company, Fort Worth, Tex. Filed July 25, 1949.

DURA LIFE

FOR LIQUID WOOD PRESERVER FOR PREVENTION OF WOOD ROT, FUNGUS GROWTHS, AND PREVENTION OF TERMITES.
Claims use since July 15, 1949.

Ser. No. 587,503. PITTSBURGH COKE & CHEMICAL COMPANY, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed Nov. 8, 1949.

P C&C C

FOR CHEMICALS—NAMELY, ACTIVATED CARBON, ALKYL METHYL PYRIDINIUM CHLORIDE, ALKYLENE POLYAMINO POLYCARBOXYLIC ACID DERIVATIVES, ALPHA NAPHTHYLTHIOUREA, ALPHA NITRONAPHTHALENE, ALPHA PICOLINE, BETA GAMMA PICOLINE, BETA PICOLINE, CHLOROPHENOL STILL RESIDUE, CREOSOTE, CREOSOTE OIL, CRESYLIC ACID, CRESOL, DINITRO ORTHO CRESOL, FUMARIC ACID, GAMMA PICOLINE, HALOGENOARYLOXY MONOCARBOXYLIC ACID DERIVATIVES, HIGH FLASH NAPHTHA, HIGH BOILING XYLENOLS, LAWSONE, 2,3-LUTIDINE, MALEIC LIQUOR, META PARA CRESOL, NAPHTHALENE STILL LIGHT OIL, ORTHO CRESOL, PARA AMINO PHENYL MERCURIC ACETATE, PHENOL, PHENYL ISOCYANATE, PHTHALIC ANHYDRIDE, POLYCARBOXYLIC ACID ANHYDRIDES, PYRIDINE, QUATERNARY AMMONIUM HALIDES, SODIUM CYANIDE, SULPHATE OF AMMONIA, TAR ACID OILS TOLUOL, 10° XYLOL, AND XYLENOL.
Claims use since Oct. 6, 1948.

Ser. No. 591,252. J. C. PAUL & Co., Chicago, Ill. Filed Jan. 21, 1950.

GLIDE RITE

FOR SHUFFLEBOARD POWDER, A COMPOSITION COMPRISING A GRAIN MEAL, PLASTIC BEADS, AND IN SOME INSTANCES WAX AS AN ADDITIONAL INGREDIENT.
Claims use since Nov. 1, 1948.

Ser. No. 592,607. GODFREY L. CABOT, INC., Boston Mass. Filed Feb. 17, 1950.

DI-OA

FOR CARBON BLACK AS A PLASTICIZER.
Claims use since May 2, 1949.

Ser. No. 592,914. HAROLD J. KOHLER, trading as Monarch Laboratories, and Monarch Labs., Chicago, Ill. Filed Feb. 23, 1950.

FANOMATIC

FOR DEODORANTS IN SOLID AND LIQUID FORM FOR DEODORIZING KITCHENS, BATHROOMS, AND OTHER TOILET FACILITIES.
Claims use since January 1950.

Ser. No. 593,050. HERBERT J. ATKINSON, doing business as Sudbury Laboratory, South Sudbury, Mass. Filed Feb. 25, 1950.

FIRE WATER

FOR CHEMICAL PREPARATION USED AS A RUST INHIBITOR.
Claims use since Feb. 16, 1950.

Ser. No. 593,103. CLINTON FOODS INC., Clinton, Iowa. Filed Feb. 27, 1950.

5-L

FOR LAUNDRY STARCH.
Claims use since September 1932.

Ser. No. 593,105. CLINTON FOODS INC., Clinton, Iowa. Filed Feb. 27, 1950.

L-4008

FOR LAUNDRY STARCH.
Claims use since Mar. 12, 1941.

Ser. No. 593,106. CLINTON FOODS INC., Clinton, Iowa. Filed Feb. 27, 1950.

PM 3011

FOR CORN STARCH FOR USE IN MAKING PAPER.
Claims use since Mar. 22, 1941.

Ser. No. 593,239. PLANT PROTECTION LIMITED, Kent and Yalding, Kent, England. Filed Mar. 1, 1950.

AGROXONE

Applicant claims ownership of British Registration No. 640,026 dated Sept. 12, 1945.
FOR PREPARATIONS FOR KILLING WEEDS.

Ser. No. 593,240. PLANT PROTECTION LIMITED, Kent and Yalding, Kent, England. Filed Mar. 1, 1950.

FERNIDE

Applicant claims ownership of British Registration No. 668,047 dated Mar. 24, 1948.
FOR INSECTICIDES, FUNGICIDES AND WEED-KILLING PREPARATIONS.

Ser. No. 593,241. PLANT PROTECTION LIMITED, Kent and Yalding, Kent, England. Filed Mar. 1, 1950.

NOMERSAN

Applicant claims ownership of British Registration No. 608,945, dated Aug. 24, 1939.
FOR SEED DRESSINGS.

Ser. No. 593,649. CHESTER STERLING LABORATORIES, INC., Indianapolis, Ind. Filed Mar. 9, 1950.

Watermaster

FOR MOLDED, BRICK-LIKE WATER SOFTENING COMPOUND.
Claims use since Jan. 10, 1949.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 591,929. ILLINOIS WATCH CASE CO., operating under the name of Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Filed Feb. 3, 1950.

"LITE - O - MATIC"

No registration rights are claimed to "Lite."
FOR COMBINATION CIGARETTE CASE AND LIGHTER.
Claims use since Jan. 13, 1950.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 543,224. PRODUITS CHIMIQUES DE LIEGE, S. P. R. L., Bois-de-Breux, near Liege, Belgium. Filed Dec. 3, 1947.

ACADEMIE

Applicant claims ownership of Belgian Registration No. 5,388 dated Sept. 18, 1941.
FOR WRITING AND DRAWING INKS OF ALL KINDS, PAD INK, CARBON PAPER, AND TYPEWRITER RIBBONS.

Ser. No. 585,477. INTERCHEMICAL CORPORATION, New York, N. Y. Filed Aug. 2, 1949.

The drawing is lined for shading purposes only.
FOR CARBON PAPER.
Claims use since July 21, 1943.

Ser. No. 593,072. INTERCHEMICAL CORPORATION, New York, N. Y. Filed Feb. 25, 1950.

ipi

The shading is intended to indicate red. Applicant claims ownership of Registrations Nos. 271,122 and 387,902.
FOR INTAGLIO INK, NEWS INK, LITHOGRAPHIC INK, PRINTING INK, STAMP PADS, AND INKING RIBBONS.
Claims use since Dec. 18, 1929.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 595,318. HABITANT FENCE, INC., Alpena, Mich. Filed Apr. 6, 1950.

HABITANT

FOR CORNER TRELLISES, LAWN TRELLISES, ARBORS, ARBOR GATES, AND WOOD FENCING.
Claims use since Jan. 3, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 504,557. GEORG JENSEN INC., New York, N. Y. Original filed, act of 1905, June 25, 1946; amended to application under act of 1946, Principal Register, Jan. 7, 1948.

GEORG JENSEN Inc.

The abbreviation "Inc." is disclaimed. Georg Jensen was a famous Danish sculptor and silversmith who died in 1935.
FOR TABLE BOWLS MADE OF BRONZE, TABLE SERVICE PLATES MADE OF ALUMINUM, SERVING TRAYS MADE OF PEWTER, TABLE HOLLOWWARE—NAMELY, COFFEE POTS, TEA POTS, SUGAR BASINS, CREAM PITCHERS, WASTE BOWLS, MUGS, SAUCE BOATS, WATER PITCHERS AND COCKTAIL SHAKERS MADE OF PEWTER; AND COOKING UTENSILS—NAMELY, CASSEROLES, ROASTERS, CHAFING DISHES, AND FRYING PANS MADE OF STAINLESS STEEL.
Claims use since Jan. 20, 1940.

Ser. No. 504,840. GEORG JENSEN INC., New York, N. Y. Original filed, act of 1905, June 29, 1946; amended to application under act of 1946, Principal Register, Jan. 13, 1948.

The abbreviation "Inc." is disclaimed. Georg Jensen was a famous Danish sculptor and silversmith who died in 1935. Applicant claims ownership of Registrations Nos. 293,530 and 384,180.

FOR TABLE BOWLS MADE OF BRONZE, TABLE SERVICE PLATES MADE OF ALUMINUM, SERVING TRAYS MADE OF PEWTER, TABLE HOLLOWWARE—NAMELY, COFFEE POTS, TEA POTS, SUGAR BASINS, CREAM PITCHERS, WASTE BOWLS, MUGS, SAUCE BOATS, WATER PITCHERS, AND COCKTAIL SHAKERS MADE OF PEWTER; AND COOKING UTENSILS—NAMELY, CASSEROLES, ROASTERS, CHAFING DISHES, POTS, AND FRYING PANS MADE OF STAINLESS STEEL.

Claims use since June 5, 1942.

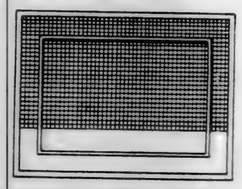
Ser. No. 545,511. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Dec. 26, 1947.

NCG

FOR GAS HANDLING AND DISTRIBUTING SUPPLIES AND ACCESSORIES — NAMELY, SPRING-LOADED GAS PRESSURE REGULATING VALVES, GATE, GLOBE, AND NEEDLE VALVES, CHECK VALVES AND PRESSURE RELIEF VALVES, HOSE CLAMPS, METAL PIPES AND PIPE FITTINGS, MANIFOLDS FOR CONDUCTING GASES FROM ONE OR MORE CONTAINERS TO POINTS OF USE, AND ACCESSORIES FOR THE FOREGOING — NAMELY, MOUNTING BRACKETS, SPUDS, PIGTAILS, BURSTING DISCS, DUST CAPS AND FLASH BACK ARRESTORS, ALL CONSISTING ESSENTIALLY OF METAL, AND PARTS FOR THE FOREGOING.

Claims use since 1935.

Ser. No. 546,409. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Jan. 7, 1948.



The drawing is lined to indicate shading.

FOR GAS HANDLING AND DISTRIBUTING SUPPLIES AND ACCESSORIES — NAMELY, SPRING-LOADED GAS PRESSURE REGULATING VALVES, GATE, GLOBE, AND NEEDLE VALVES, CHECK VALVES AND PRESSURE RELIEF VALVES, HOSE CLAMPS, METAL PIPES AND PIPE FITTINGS, MANIFOLDS FOR CONDUCTING GASES FROM ONE OR MORE CONTAINERS TO POINTS OF USE, AND ACCESSORIES FOR THE FOREGOING — NAMELY, MOUNTING BRACKETS, SPUDS, PIGTAILS, BURSTING DISCS, DUST CAPS AND FLASH BACK ARRESTORS, ALL CONSISTING ESSENTIALLY OF METAL, AND PARTS FOR THE FOREGOING.

Claims use since November 1946.

Ser. No. 547,021. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Jan. 14, 1948.

The drawing is lined to indicate black.

FOR GAS HANDLING AND DISTRIBUTING SUPPLIES AND ACCESSORIES — NAMELY, SPRING-LOADED GAS PRESSURE REGULATING VALVES, GATE, GLOBE, AND NEEDLE VALVES, CHECK VALVES AND PRESSURE RELIEF VALVES, HOSE CLAMPS, METAL PIPES AND PIPE FITTINGS, MANIFOLDS FOR CONDUCTING GASES FROM ONE OR MORE CONTAINERS TO POINTS OF USE, AND ACCESSORIES FOR THE FOREGOING — NAMELY, MOUNTING BRACKETS, SPUDS, PIGTAILS, BURSTING DISCS, DUST CAPS AND FLASH BACK ARRESTORS, ALL CONSISTING ESSENTIALLY OF METAL, AND PARTS FOR THE FOREGOING.

Claims use since November 1946 as to the mark shown; and since 1935 as to the letters "N C G."

Ser. No. 547,267. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill. Filed Jan. 16, 1948.

NCG

The drawing is lined to indicate yellow.

FOR GAS HANDLING AND DISTRIBUTING SUPPLIES AND ACCESSORIES — NAMELY, SPRING-LOADED GAS PRESSURE REGULATING VALVES, GATE, GLOBE, AND NEEDLE VALVES, CHECK VALVES AND PRESSURE RELIEF VALVES, HOSE CLAMPS, METAL PIPES AND PIPE FITTINGS, MANIFOLDS FOR CONDUCTING GASES FROM ONE OR MORE CONTAINERS TO POINTS OF USE, AND ACCESSORIES FOR THE FOREGOING — NAMELY, MOUNTING BRACKETS, SPUDS, PIGTAILS, BURSTING DISCS, DUST CAPS AND FLASH BACK ARRESTORS, ALL CONSISTING ESSENTIALLY OF METAL, AND PARTS FOR THE FOREGOING.

Claims use since 1935 as to the letters "N C G"; and since November 1946 as shown.

Ser. No. 564,661. SOLAR-STURGES MFG. CO., Melrose Park, Ill. Filed Sept. 3, 1948.

PERMANENT

FOR STAINLESS STEEL KITCHEN AND COOKING HOLLOW WARE—NAMELY, SAUCEPANS, POTS, CASSEROLES, DOUBLE BOILERS, EGG POACHERS, COFFEE MAKERS, SKILLETS, AND ROASTERS.

Claims use since July 1, 1947.

Ser. No. 566,369. UNITED AIRCRAFT PRODUCTS, INC., Dayton, Ohio. Filed Oct. 2, 1948.

angelaire

FOR METAL BAKING PANS.

Claims use since Aug. 16, 1948.

Ser. No. 567,667. UNITED AIRCRAFT PRODUCTS, INCORPORATED, Dayton, Ohio. Filed Oct. 26, 1948.

shellaire

FOR METAL KITCHENWARE PANS.

Claims use since Sept. 1, 1948.

Ser. No. 567,765. ENGINEERING ACHIEVEMENTS, INC., New Orleans, La. Filed Oct. 28, 1948.

MAGNECATCH

FOR MAGNETIC CATCHES FOR HOLDING DOORS OR CLOSURE MEMBERS ON CABINETS, CUPBOARDS, AND THE LIKE IN CLOSED POSITION.

Claims use since Aug. 1, 1948.

Ser. No. 569,026. UNITED AIRCRAFT PRODUCTS, INC., Dayton, Ohio. Filed Nov. 18, 1948.

angelaire JUNIOR

FOR METAL KITCHENWARE PANS.

Claims use since Oct. 1, 1948.

Ser. No. 574,397. TENNESSEE COAL, IRON AND RAILROAD COMPANY, Birmingham, Ala. Filed Feb. 23, 1949. (Sec. 2f.)

TENNESSEE

Applicant claims ownership of Registration No. 211,442.

FOR COTTON BALE TIES.

Claims use since February 1933.

Ser. No. 574,812. AUTOMATIC PUMP & SOFTENER CORPORATION, Rockford, Ill. Filed Mar. 3, 1949.

SOLO

FOR MULTIPLE PORT VALVES OF THE TYPE USED FOR THE CONTROL OF THE LIQUID FLOW IN BASE EXCHANGE WATER TREATMENT APPARATUS.

Claims use since Dec. 17, 1932.

Ser. No. 580,571. E. A. BENSOM CORPORATION, Salem, Mass. Filed June 16, 1949.

CON-TORQ

Phonetic equivalents of the word "Torque" are disclaimed.

FOR LOCK NUTS.

Claims use since May 15, 1949.

Ser. No. 588,341. WEST DISINFECTING COMPANY, Long Island City, N. Y. Filed Nov. 25, 1949.

Applicant claims ownership of Registrations Nos. 517,852 and 524,371.

FOR SOAP DISPENSERS AND SOAP LATHER DISPENSERS AFFIXED TO THE WALL AND TO WASH BASINS.

Claims use since June 9, 1926.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 564,905. JOSEPH T. RYERSON & SON, INC., Chicago, Ill. Filed Sept. 9, 1948. (Sec. 2f.)

The words "Certified Steels" are disclaimed. Applicant claims ownership of Registration No. 271,469.

FOR STEEL PLATES AND SHEETS, IRON AND STEEL, METAL BARS AND BILLETS, ALLOY STEEL, TOOL STEEL, STRIP STEEL, SPRING STEEL, DRILL STEEL, MACHINERY STEEL, SCREW STEEL, BABBITT METAL, SOLDER, STAINLESS STEEL, CASTINGS OF MALLEABLE IRON, GRAY IRON, AND STAINLESS STEEL, FORGINGS OF CARBON STEEL, ALLOY STEEL, AND STAINLESS STEEL, AND COLD ROLLED STEEL.

Claims use since Nov. 12, 1937.

Ser. No. 571,640. THE HANNA FURNACE CORPORATION, Detroit, Mich. Filed Jan. 5, 1949.

HANNACARB

FOR PIG IRON.

Claims use since Nov. 9, 1948.

Ser. No. 571,641. THE HANNA FURNACE CORPORATION, Detroit, Mich. Filed Jan. 5, 1949.

HANNATEN

FOR PIG IRON.
Claims use since Nov. 17, 1948.

Ser. No. 573,790. RIGIDIZED METALS CORPORATION, Buffalo, N. Y. Filed Feb. 12, 1949.

FOR STRUCTURALLY REINFORCED FERROUS AND NON-FERROUS METAL SHEETS AND LAMINATED FERROUS AND NON-FERROUS METAL SHEETS.
Claims use since Dec. 15, 1948.

Ser. No. 574,842. KESTER SOLDER COMPANY, Chicago, Ill. Filed Mar. 3, 1949.

RESIN-FIVE

The word "Resin" is disclaimed.
FOR SOLDER.
Claims use since Nov. 29, 1946.

Ser. No. 577,926. AMERICAN SMELTING AND REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 29, 1949.

CASTOMATIC

FOR WHITE METALS, ZINC-BASE ALLOYS, ANTI-FRICTION METAL, BABBITT, SOLDER, AND TYPE METAL, IN BARS, INGOTS, PIGS, RODS, AND STICKS.
Claims use since Oct. 9, 1946.

Ser. No. 579,845. STULZ-SICKLES COMPANY, Newark, N. J. Filed June 1, 1949.

MANGANAL

The drawing is lined for red. Applicant claims ownership of Registration No. 294,468.
FOR METALS—NAMELY, MANGANESE ALLOYS.
Claims use since Nov. 25, 1931.

Ser. No. 580,600. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed June 16, 1949.

"42"

FOR NICKEL-CHROMIUM ALLOY WELDING WIRE.
Claims use since May 17, 1949.

Ser. No. 584,598. M. SWIFT & SONS, INC., Hartford, Conn. Filed Sept. 8, 1949.

The expression "Swift Stamps the World" is disclaimed.
FOR METAL FOIL.
Claims use since Feb. 7, 1949.

Ser. No. 590,623. SOLAR STEEL CORPORATION, Cleveland, Ohio. Filed Jan. 10, 1950.

The words "Dependable as the Sun" and "Steel Service" are disclaimed. Applicant claims ownership of Registration No. 517,531.
FOR STEEL AND IRON IN STRIPS, SHEETS AND PLATES.
Claims use since Apr. 20, 1948.

Ser. No. 591,723. EUTECTIC WELDING ALLOYS CORPORATION, New York, N. Y. Filed Jan. 31, 1950.

EUTEC-BRAZE

The word "Braze" is disclaimed.
FOR COPPER BASE ALLOY IN VARIOUS FORMS SUITABLE FOR METAL JOINING AND SURFACING OPERATIONS.
Claims use since Jan. 24, 1950.

Ser. No. 592,049. THE PENNSYLVANIA STEEL CORP., Detroit, Mich. Filed Feb. 6, 1950.

FLEXOR

FOR TOOL STEEL.
Claims use since Nov. 11, 1948.

Ser. No. 592,050. THE PENNSYLVANIA STEEL CORP., Detroit, Mich. Filed Feb. 6, 1950.

TEMPO

FOR TOOL STEEL.
Claims use since Dec. 2, 1948.

CLASS 15

OILS AND GREASES

Ser. No. 536,396. E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Oct. 1, 1947. (Sec. 2f.)

ABSORBED

Applicant claims ownership of Registration No. 143,852.
FOR LUBRICATING GREASES AND LUBRICATING OILS.
Claims use since 1912.

Ser. No. 585,657. METASAP CHEMICAL COMPANY, Harrison, N. J. Filed Oct. 1, 1949.

METAVIS

Applicant claims ownership of Registration No. 407,055.
FOR METALLIC SOAP COMPOSITIONS FOR ADDITION TO MINERAL OILS TO PRODUCE LUBRICANTS AND LUBRICATING GREASES.
Claims use since 1925.

Ser. No. 590,664. KENDALL OIL COMPANY, INC., Chattanooga, Tenn. Filed Jan. 11, 1950.

KAYO

FOR GASOLINE, KEROSENE, MOTOR FUEL CONSISTING OF A MIXTURE OF GASOLINE AND MOTOR BENZOL, DIESEL OIL, FUEL OIL, MOTOR OIL, AND LUBRICATING GREASES.
Claims use since Dec. 16, 1949.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 553,025. THE SARGENT-GERKE CO., Indianapolis, Ind. Filed Mar. 25, 1948. (Sec. 2f.)

SARGENT

Applicant claims ownership of Registration No. 216,235.
FOR READY-MIXED PREPARED INTERIOR AND EXTERIOR PAINTS; PAINT PRIMER AND SEALER FOR UNFINISHED SURFACES, PAINT ENAMELS, VARNISHES; STAINS—NAMELY, WOOD STAINS, OIL STAINS AND VARNISH STAINS IN LIQUID FORM; LACQUERS; PAINT THINNER; HARDWOOD PASTE FILLER IN THE NATURE OF PAINT; LIQUID GRAPHITE IN THE NATURE OF PAINT, APPLIED BY BRUSH; LIQUID CHEMICAL PAINT AND VARNISH REMOVER; RED LEAD; IRON OXIDE PAINT IN LIQUID FORM; RUST INHIBITOR IN THE NATURE OF A LIQUID PAINT; ALUMINUM PAINT; AND PRESERVATIVE AND SEALER IN THE NATURE OF PAINT FOR USE ON WOOD AND FABRICS.
Claims use since September 1901.

Ser. No. 561,916. FRANKLIN RESEARCH COMPANY, Philadelphia, Pa. Filed July 22, 1948. (Sec. 2f as to the surname "Franklin's.")

TWENTY-ONE

FOR FLOOR WAX.
Claims use since April 1940 as to "Franklin's"; and since Nov. 7, 1945, to the mark as shown.

Ser. No. 567,467. NOX-RUST CHEMICAL CORPORATION, Chicago, Ill. Filed Oct. 22, 1948.

NOX-SOUND

The word "Sound" is disclaimed.
FOR PASTE-LIKE MATERIAL ADAPTED TO BE SPRAYED, BRUSHED, OR TROWELED FOR UNDERCOATING AUTOMOBILE AND TRUCK BODIES.
Claims use since August 1947.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 578,689. HANDELSVENNOOTSCHAP ONDER DE FIRMA SMIT & TEN HOVE, Kampen, Holland. Filed May 12, 1949.

The words "Marca" and "Selecta" are disclaimed. Applicant claims ownership of Dutch Registration No. 74,696, dated Aug. 23, 1939.
FOR SMOKING TOBACCO, CIGARS, AND CIGARETTES.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 520,508. BRISTOL-MYERS COMPANY, New York, N. Y. Original filed, under act of 1905, Apr. 14, 1947; amended to application under act of 1946, Principal Register, May 13, 1949. (Sec. 2f.)

Sealtube

FOR PREPARATION FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP, IN SINGLE USE CONTAINER.
Claims use since July 22, 1936.

Ser. No. 571,238. ROBERT STUART, doing business as The Succinol Company, New York, N. Y., assignor, by mesne assignments, to Amfre Drug Company, Incorporated, New York, N. Y. Filed Dec. 28, 1948.

SUCCINOL

FOR MEDICINAL PREPARATION USED FOR THE TREATMENT OF ARTHRITIC AND RHEUMATOID CONDITIONS.
Claims use since Dec. 16, 1948.

Ser. No. 571,917. SCHICK & SONS, Fort Wayne, Ind. Filed Jan. 10, 1949.

The drawing is lined to indicate orange. The surname "Schick's" is disclaimed.
FOR MEDICINAL PREPARATION FOR TREATMENT OF ATHLETE'S FOOT IN POWDER AND LIQUID FORM.
Claims use since Sept. 16, 1948.

Ser. No. 572,020. CIBA LIMITED, Basle, Switzerland. Filed Jan. 12, 1949.

TRAFURIL

Applicant claims ownership of Swiss Registration No. 125,446 dated July 7, 1948.
FOR MEDICINAL RUBEFACIENT; SUBSTANCE CAUSING HYPEREMIA OF THE SKIN.

Ser. No. 572,063. G. S. STODDARD & CO., INC., New York, N. Y. Filed Jan. 12, 1949.

CAQUIN

FOR ANALGESIC AND ANTIPYRETIC USEFUL IN DIMINISHING MUCOUS SECRETIONS IN ACUTE HEAD COLDS.
Claims use since Jan. 14, 1948.

Ser. No. 573,172. DRUG SPECIALTIES, INCORPORATED, Winston-Salem, N. C. Filed Feb. 2, 1949.

NICOTAL

FOR MEDICINAL PREPARATION IN TABLET FORM FOR USE IN CEREBRAL SYMPTOMS ARISING FROM HYPERTENSION OR ARTERIOSCLEROSIS.
Claims use since Jan. 1, 1948.

Ser. No. 573,862. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Feb. 15, 1949.

Tri-Bac

FOR PREPARATIONS CONTAINING A COMBINATION OF BACTERINS OR VACCINES TO BE USED FOR THE IMMUNIZATION OF ANIMALS AGAINST DISEASES OF LIVESTOCK.
Claims use since Jan. 27, 1949.

Ser. No. 575,684. THE VALE CHEMICAL COMPANY, INC., Allentown, Pa. Filed Mar. 18, 1949.

SUCCINAL-C

The letter "C" is disclaimed.
FOR MEDICINAL PREPARATION FOR TREATMENT OF ARTHRITIS.
Claims use since Sept. 25, 1948.

Ser. No. 575,924. ORTHO PHARMACEUTICAL CORPORATION, Raritan, N. J. Filed Mar. 23, 1949.

Ortho zip kit

The words "Zip Kit" are disclaimed. Applicant claims ownership of Registrations Nos. 387,080, 394,998, 433,428, and 434,824.
FOR ZIPPERED BAG CONTAINING A PESSARY AND VAGINAL CREAMS AND JELLIES.
Claims use since Mar. 3, 1949.

Ser. No. 576,515. CASIMIR FUNK LABORATORIES, INC., New York, N. Y. Filed Apr. 2, 1949.

DELMETHINE

FOR PREPARATION CONTAINING A COMBINATION OF DEHYDROCHOLIC ACID AND DI-METHIONINE FOR USE AS A HYDROCHOLERETIC AND LIPOTROPIC MEDICATION.
Claims use since Oct. 11, 1948.

Ser. No. 578,019. PARK ODOR PRODUCTS COMPANY, Bangor, Maine. Filed May 11, 1949.

RAMBAM

FOR CORN REMOVER, AND OINTMENT FOR TREATMENT OF CORNS, AND CALLOUSES.
Claims use since Aug. 15, 1943.

Ser. No. 578,727. SUTLIFF & CASE CO., INC., Peoria, Ill. Filed May 12, 1949. (Sec. 2f.)

CRETA-TABS

The word "Tab" is disclaimed.
FOR GASTRIC ANTACID MEDICINAL TABLETS.
Claims use since Feb. 27, 1931.

Ser. No. 578,733. SUTLIFF & CASE CO., INC., Peoria, Ill. Filed May 12, 1949. (Sec. 2f.)

PIX-UNG

FOR NON-GREASY OINTMENT USEFUL WHERE A LOCAL ANESTHETIC, ASTRINGENT, AND ANTIPRURITIC IS REQUIRED.
Claims use since Sept. 29, 1934.

Ser. No. 579,980. KINNEY AND COMPANY, Columbus, Ind. Filed June 4, 1949.

FERCERON

FOR IRON AND YEAST EXTRACT USED AS A DIETARY SUPPLEMENT.
Claims use since May 4, 1949.

Ser. No. 580,692. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed June 17, 1949.

TETRONYL

FOR MEDICINAL PREPARATION—NAMELY, A PARASITICIDE AND ANTISEPTIC FOR TOPICAL APPLICATION.
Claims use since Apr. 26, 1949.

Ser. No. 582,815. CALVITAL COMPANY, INC., Mt. Vernon, N. Y. Filed Aug. 2, 1949.

Succidol

FOR MEDICINAL PREPARATION IN CAPSULE FORM FOR USE IN THE TREATMENT OF ARTHRITIS, RHEUMATISM, AND GOUT.
Claims use since July 1, 1948.

Ser. No. 585,546. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Sept. 29, 1949.

NATALID

FOR SULFONAMIDE PREPARATION FOR USE IN ANTIBACTERIAL THERAPY.
Claims use since Sept. 26, 1949.

Ser. No. 586,611. WYETH INCORPORATED, Philadelphia, Pa. Filed Oct. 20, 1949.

ESORB

FOR MEDICINAL VITAMIN E PREPARATION.
Claims use since Oct. 6, 1949.

Ser. No. 587,919. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed Nov. 16, 1949.

NEODROPS

FOR IMPROVED WATER SOLUBLE MULTIVITAMIN DIETARY SUPPLEMENT FOR INFANTS AND CHILDREN.
Claims use since Sept. 27, 1949.

Ser. No. 589,396. SCHIEFFELIN & CO., New York, N. Y. Filed Dec. 15, 1949.

PROSEIN

FOR DIETARY SUPPLEMENT FOR THE TREATMENT OF HYPOPROTEINEMIA.
Claims use since Nov. 21, 1949.

Ser. No. 589,863. JOSEPH I. MAURA, doing business under the name Maura's, New York, N. Y. Filed Dec. 22, 1949.

MAURA'S

The portraiture on the drawing is that of the applicant. The surname "Maura's" is disclaimed.
FOR LINIMENTS FOR RELIEVING MUSCULAR PAINS.
Claims use since June 28, 1949.

Ser. No. 590,077. ENDO PRODUCTS INC., Richmond Hill, N. Y. Filed Dec. 29, 1949.

NUMORPHAN

Applicant claims ownership of Registration No. 400,895.
FOR GENERAL ANALGESIC.
Claims use since Oct. 1, 1949.

Ser. No. 590,078. ENDO PRODUCTS INC., Richmond Hill, N. Y. Filed Dec. 29, 1949.

PERMORPHAN

Applicant claims ownership of Registration No. 400,895.
FOR GENERAL ANALGESIC.
Claims use since Oct. 1, 1949.

Ser. No. 590,710. SCHENLEY LABORATORIES, INC., New York, N. Y. Filed Jan. 11, 1950.

TIBIONE

FOR CHEMO-THERAPEUTIC AGENT CONSISTING OF TABLETS MADE OF A THIOSEMICARBAZONE FOR PULMONORY DISEASES.
Claims use since Sept. 20, 1949.

Ser. No. 594,060. NUMOTIZINE, INC., Chicago, Ill. Filed Mar. 16, 1950.

NUMET

FOR MEDICATED THROAT LOZENGES.
Claims use since Feb. 8, 1950.

Ser. No. 594,189. AMERICAINE, INC., Evanston, Ill. Filed Mar. 18, 1950.

Chlorothelium

FOR TOPICAL ANTISEPTIC OINTMENT CONTAINING PRINCIPALLY CHLOROPHYLL AND OXYQUINOLINE BENZOATE.
Claims use since Oct. 19, 1949.

Ser. No. 594,597. TABLEROCK LABORATORIES, Greenville, S. C. Filed Mar. 24, 1950.

TABOLINE

FOR LIQUID PREPARATION FOR THE TREATMENT OF LIVER DISEASE.
Claims use since Jan. 31, 1950.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 537,602. MANNING, MAXWELL & MOORE, INC., New York, N. Y. Filed Oct. 11, 1947. (Sec. 2f.)

'Load Lifter'

FOR ELECTRICALLY DRIVEN HOISTS.
Claims use since November 1921 in another form: and since May 1942 as shown.

Ser. No. 552,845. CROUSE-HINDS COMPANY, Syracuse, N. Y. Filed Mar. 24, 1948.

VISULARM

FOR ELECTRIC VISIBLE AND AUDIBLE ALARM SIGNALING APPARATUS FOR INDICATING NORMAL AND ABNORMAL CONDITIONS IN MANUFACTURING PROCESSES, SUCH AS TEMPERATURE, LIQUID LEVEL, SPEED, LOAD, ETC.
Claims use since Apr. 10, 1947.

Ser. No. 556,933. UNITED STATES ELECTRIC MFG. CORP., New York, N. Y. Filed May 12, 1948. (Sec. 2f.)

BEST

FOR ELECTRICAL SUPPLIES—NAMELY, ELECTRIC SWITCHES, PLUGS, CONNECTORS, SWITCH BOXES, INSULATORS, LAMP SOCKETS, CORD TERMINALS, LINE TAPPERS, SOCKET SHELLS, ELECTRIC LAMPS, ELECTRIC-LAMP FIXTURES, ELECTRIC WIRES AND CABLES, TERMINALS, CEILING BLOCKS, SUPPORTS AND HANGERS FOR CABLES AND THE LIKE, FLASHLIGHTS AND DRY CELLS.
Claims use since May 1, 1921.

Ser. No. 562,985. THE CIRCUL-AIR CORPORATION, Detroit, Mich. Filed Aug. 7, 1948.

CIRCUL-AIR

The word "Air" is disclaimed.
FOR CABINET TYPE FIRE HOSE DRYER USING ELECTRICAL ENERGY FOR HEATING THE AIR AND FOR MOVING THE SAME.
Claims use since April 1940.

Ser. No. 571,526. THE GLOLITE CORPORATION, Chicago, Ill. Filed Jan. 3, 1949. (Sec. 2f.)

GLOLITE
SYMBOL OF QUALITY

The words "Symbol of Quality" and the representation of an illuminated Christmas tree are disclaimed. Applicant claims ownership of Registrations Nos. 200,204 and 530,827.
FOR ELECTRIC DECORATIVE LIGHTING EQUIPMENT—NAMELY, CHRISTMAS LIGHTING OUTFITS FOR INDOOR AND OUTDOOR USE, ELECTRIC CANDELABRA, ILLUMINATED WREATHS AND SPRAYS, AND ILLUMINATED ARTIFICIAL CHRISTMAS TREES.
Claims use since February 1948 as to the form shown; and since June 1933 as to "Glolite" in a different form.

Ser. No. 571,743. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Jan. 6, 1949. (Sec. 2f.)

Phillips 66

The drawing is lined for mandarin orange and black. Applicant claims ownership of Registrations Nos. 305,466 and 424,841.
FOR STORAGE BATTERIES, BATTERY CABLES, AUTOMOBILE FUSES, SPARK PLUGS, AND RADIOS.
Claims use since Mar. 1, 1933.

Ser. No. 572,455. SCHULMERICH ELECTRONICS, INCORPORATED, Sellersville, Pa. Filed Jan. 19, 1949.

Schulmetronic

FOR AUDIO FREQUENCY ELECTRONIC AMPLIFIERS: AUTOMATIC PROGRAM CONTROLLED SOUND SYSTEMS SOLD AS A UNIT FOR USE FOR CHURCHES, INSTITUTIONS, BUILDINGS, ETC., SAID UNITS HAVING AN AMPLIFIER CONNECTABLE WITH A LOUD SPEAKER AND A SOURCE OF AUDIO VIBRATIONS INCLUDING RECORD PLAYERS AND RECORD CHANGERS; ELECTRICAL KEYBOARD AND MECHANICALLY OPERATED ELECTRIC CHIME AND BELL ELEMENTS HAVING A VIBRATOR WITH AN ASSOCIATED ELECTRIC PICK-UP CONNECTABLE WITH AN AMPLIFIER AND LOUD SPEAKER FOR PRODUCING A BELL TONE; ELECTRIC ROLL PLAYER INSTRUMENTS FOR CHIME AND BELL INSTRUMENTS USING PERFORATED ROLLS COOPERATING WITH SWITCHES CONTROLLING SAID CHIME AND BELL INSTRUMENTS; AND THE PARTS FOR THE AFORESAID GOODS.
Claims use since Dec. 23, 1948.

Ser. No. 578,399. MILROY ENTERPRISES INC., Middletown, Ohio. Filed May 7, 1949.

Q-Burger

FOR BROILER FOR ELECTRICALLY COOKING GROUND MEAT AND TOASTING BUNS.
Claims use since Sept. 20, 1948.

Ser. No. 578,768. CINCH MANUFACTURING CORPORATION, Chicago, Ill. Filed May 13, 1949.

FOR VARIOUS COMPONENT PARTS OF ELECTRICAL, ELECTRONIC, AND RADIO APPARATUS AND DEVICES—NAMELY, SOCKETS AND SHIELDS FOR VACUUM TUBES, FOR CONDENSERS, FOR COILS, FOR RESISTORS, FOR CRYSTALS, FOR VIBRATOR ASSEMBLIES, AND FOR CIRCUIT SUB-ASSEMBLIES; ADAPTER PLATES, BASES, MOUNTING MEMBERS, AND CLIPS, ALL FOR SUCH SOCKETS AND SHIELDS; CONNECTOR SOCKETS, PLUGS AND PLUG SHIELDS, CONTACTS, CONNECTORS, CONTACT PRONGS, CONTACT CLIPS, CONNECTOR CLIPS, GRID CLIPS, TERMINALS, TERMINAL STRIPS, CONTACT STRIPS, TIP JACKS, BINDING POSTS, SOLDERING LUGS, AND DIAL ASSEMBLIES; TUBE HOLDERS, MOUNTING LUGS, MOUNTING BRACKETS, CABLE CLAMPS, AND CUP WASHERS.
Claims use since Mar. 10, 1949.

Ser. No. 578,769. CINCH MANUFACTURING CORPORATION, Chicago, Ill. Filed May 13, 1949.

Applicant claims ownership of Registration No. 339,470.
FOR VARIOUS COMPONENT PARTS OF ELECTRICAL, ELECTRONIC, AND RADIO APPARATUS AND DEVICES—NAMELY, SOCKETS AND SHIELDS FOR VACUUM TUBES, FOR CONDENSERS, FOR COILS, FOR RESISTORS, FOR CRYSTALS, FOR VIBRATOR ASSEMBLIES, AND FOR CIRCUIT SUB-ASSEMBLIES; ADAPTER PLATES, BASES, MOUNTING MEMBERS, AND CLIPS, ALL FOR SUCH SOCKETS AND SHIELDS; CONNECTOR SOCKETS, PLUGS AND PLUG SHIELDS, CONTACTS, CONNECTORS, CONTACT PRONGS, CONTACT CLIPS, CONNECTOR CLIPS, GRID CLIPS, TERMINALS, TERMINAL STRIPS, CONTACT STRIPS, TIP JACKS, BINDING POSTS, SOLDERING LUGS, AND DIAL ASSEMBLIES; TUBE HOLDERS, MOUNTING LUGS, MOUNTING BRACKETS, CABLE CLAMPS, AND CUP WASHERS.
Claims use since Mar. 10, 1949.

Ser. No. 579,542. LANDERS, FRARY & CLARK, New Britain, Conn. Filed May 26, 1949.

Cook-a-matic

The syllable "Cook" is disclaimed.
FOR ELECTRICALLY-HEATED APPARATUS COMPRISING GRILLS AND WAFFLE MAKERS.
Claims use since Feb. 2, 1949.

Ser. No. 581,230. ZENITH RADIO CORPORATION, Chicago, Ill. Filed June 28, 1949.

STRATOSPHERE

Applicant claims ownership of Registration No. 321,371.
FOR RADIO AND TELEVISION RECEIVING SETS AND PARTS THEREOF, AND RADIO AND ELECTRIC TALKING MACHINE COMBINATIONS AND PARTS THEREOF.
Claims use since May 20, 1949.

Ser. No. 588,453. S & M PRODUCTS, Des Moines, Iowa. Filed Nov. 28, 1949.

"Dynalite"

FOR ELECTRIC LAMP AND BRACKET ASSEMBLY FOR ILLUMINATING THE INDICATOR DIAL OF AUTOMATIC VEHICLE TRANSMISSIONS.
Claims use since June 24, 1949.

Ser. No. 591,549. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky. Filed Jan. 27, 1950. (Sec. 2f.)

BELKNAP

FOR ELECTRIC STORAGE BATTERIES AND FLASHLIGHTS.
Claims use since Oct. 11, 1939.

Ser. No. 591,984. FIRST INDUSTRIAL CORPORATION, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware. Filed Feb. 4, 1950.

MICRO - LIMIT

The word "Limit" is disclaimed.
FOR PRECISION ELECTRIC SWITCH.
Claims use since Feb. 8, 1949.

Ser. No. 593,045. AMERICAN HEALTH AIR SYSTEMS, INCORPORATED, New Haven, Conn. Filed Feb. 25, 1950.

FOR AIR SANITIZING APPARATUS COMPRISING A CABINET CONTAINING ULTRA-VIOLET GERMICIDAL TUBES AND REFLECTORS.
Claims use since Feb. 14, 1950.

Ser. No. 593,791. ECONOMY FUSE AND MANUFACTURING COMPANY, Chicago, Ill., assignor, by mesne assignments, to Economy Fuse and Manufacturing Co. Filed Mar. 11, 1950.

TRANSPRO

FOR FUSES AND RECEPTACLES THEREFOR FOR USE IN HIGH VOLTAGE CIRCUITS.
Claims use since Jan. 12, 1950.

Ser. No. 594,228. W. N. MATTHEWS CORPORATION, St. Louis, Mo. Filed Mar. 18, 1950.

GOABS

FOR HIGH VOLTAGE POWER LINE SWITCHES.
Claims use since June 8, 1949.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 539,216. ROCHESTER ENTERPRISES, INC., Rochester, N. Y. Filed Oct. 27, 1947.

Fireside FOOTBALL

The word "Football" is disclaimed.
FOR BOARD AND CARD GAMES.
Claims use since Oct. 16, 1947.

Ser. No. 571,072. COLORSCOPE, INC., Moline, Ill. Filed Dec. 24, 1948.

Trigger Comics

The word "Comics" is disclaimed.
FOR TOY FILM VIEWER IN THE NATURE OF A STEREOSCOPE.
Claims use since June 4, 1948.

Ser. No. 578,468. DAVID C. TRAGER, doing business as Topic Toys, Chicago, Ill. Filed May 9, 1949.

MERRY GO SIP

FOR CHILDREN'S FEEDING DEVICE DESIGNED PRIMARILY FOR AN AMUSEMENT TOY, WHICH INCLUDES A CONTAINER FOR LIQUIDS AND HAS A COVER PORTION CONTAINING A ROTATABLE TOY MERRY-GO-ROUND, WHICH IS ACTIVATED BY SIPPING LIQUID THROUGH A TUBE.
Claims use since Mar. 14, 1949.

Ser. No. 587,728. IDEAL NOVELTY & TOY CO., Hollis, N. Y. Filed Nov. 14, 1949.

TUMMY

FOR DOLLS AND TOY STUFFED ANIMALS.
Claims use since Oct. 15, 1949.

Ser. No. 588,934. ELINOR BROCATO, San Francisco, Calif. Filed Dec. 7, 1949.

The word "Purp" is disclaimed.
FOR TOY DOGS.
Claims use since Oct. 3, 1949.

Ser. No. 590,320. R. H. MACY & CO., INC., New York, N. Y. Filed Jan. 4, 1950.

Formula Baby

The word "Baby" is disclaimed.
FOR DOLLS.
Claims use since Oct. 13, 1949.

Ser. No. 592,601. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Feb. 17, 1950.

Traveler

FOR BOWLING BAGS.
Claims use since February 1949.

Ser. No. 592,603. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Feb. 17, 1950.

Leaguer

FOR BOWLING BAGS.
Claims use since February 1949.

Ser. No. 600,203. WALTER T. WATSON, Washington, D. C. Filed July 3, 1950.

The drawing is lined for shading.
FOR MINIATURE BASKET-BALL GAME.
Claims use since Nov. 1, 1949.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 538,476. VON EQUIPMENT COMPANY, INC., Memphis, Tenn. Filed Oct. 20, 1947.

CUT-ALL

The word "Cut" is disclaimed.
FOR HARROWS—NAMELY, A CULTIVATING MACHINE USED PRIMARILY FOR PULVERIZING AND SMOOTHING THE SOIL.
Claims use since Sept. 11, 1947.

Ser. No. 541,817. DE LUXE PRODUCTS CORPORATION, Laporte, Ind. Filed Nov. 20, 1947.

CLEAR-EX

The word "Clear" is disclaimed.
FOR EXHAUST MANIFOLD ATTACHMENTS FOR INTERNAL COMBUSTION ENGINES — NAMELY, VACUUM ACCUMULATORS.
Claims use since June 1942.

Ser. No. 549,833. THE NICHOLAS COMPANY, Hartford, Conn. Filed Feb. 16, 1948.

ACTIVATED

FOR CARBONATOR, FOR CARBONATING LIQUIDS BY INCORPORATING CARBON DIOXIDE IN SAID LIQUIDS.
Claims use since Sept. 3, 1947.

Ser. No. 553,280. IMPERIAL KNIFE COMPANY, INC., Providence, R. I. Filed Mar. 29, 1948.

IMPERIAL

FOR POCKET KNIVES, PARING KNIVES, AND HUNTING KNIVES.
Claims use since 1917.

Ser. No. 558,344. BUCK BROS. INC., Millbury, Mass. Filed June 3, 1948.

The word "Bros." is disclaimed. Applicant claims ownership of Registration No. 56,914.
FOR CHISELS, GOUGES, PLANE IRONS, DRAWKNIVES, COUNTERSINKS, PUNCHES, WOOD TURN-

ERS' CUTTING, PARTING, PARING, AND SIZING TOOLS, WOOD CARVING TOOLS, SCREW DRIVER BITS, AWLS, NAIL SETS, REAMERS, AND HANDLES FOR WOOD CUTTING AND TURNING TOOLS.
Claims use since May 1875.

Ser. No. 565,265. ILLINOIS GEAR & MACHINE COMPANY, Chicago, Ill. Filed Sept. 16, 1948.

I

The trade-mark consists of the letter "I."
FOR ROLLER AND SILENT CHAIN SPROCKETS MADE OF IRON, STEEL, OR BRONZE; SPEED REDUCERS FOR THE MECHANICAL TRANSMISSION OF MOTION AND POWER IN ALL TYPES OF MACHINERY, PARTICULARLY CRUSHERS, PRESSES, MACHINE TOOLS, TRACTORS, MATERIALS HANDLING, EARTH MOVING, AND CONSTRUCTION EQUIPMENT, AND AGRICULTURAL AND FOOD PROCESSING EQUIPMENT; MACHINE GEARS MADE OF CAST, FORGED, OR ROLLED STEEL, CAST IRON, BRONZE, CANVAS IMPREGNATED WITH PHENOL-RESIN, RAWHIDE, OR PRESSED COTTON IMPREGNATED WITH OIL; SPECIAL MACHINE PARTS MADE OF STEEL AND CAST IRON—NAMELY, SPLINE AND/OR KEYWAYED SHAFTS, JAW AND TOOTHED CLUTCHES, AND GEAR AND CLUTCH HOUSINGS.
Claims use since 1938.

Ser. No. 565,266. ILLINOIS GEAR & MACHINE COMPANY, Chicago, Ill. Filed Sept. 16, 1948.

IG

FOR ROLLER AND SILENT CHAIN SPROCKETS MADE OF IRON, STEEL, OR BRONZE; SPEED REDUCERS FOR THE MECHANICAL TRANSMISSION OF MOTION AND POWER IN ALL TYPES OF MACHINERY, PARTICULARLY CRUSHERS, PRESSES, MACHINE TOOLS, TRACTORS, MATERIALS HANDLING, EARTH MOVING, AND CONSTRUCTION EQUIPMENT, AND AGRICULTURAL AND FOOD PROCESSING EQUIPMENT; MACHINE GEARS MADE OF CAST, FORGED, OR ROLLED STEEL, CAST IRON, BRONZE, CANVAS IMPREGNATED WITH PHENOL-RESIN, RAWHIDE, OR PRESSED COTTON IMPREGNATED WITH OIL; SPECIAL MACHINE PARTS MADE OF STEEL AND CAST IRON—NAMELY, SPLINE AND/OR KEYWAYED SHAFTS, JAW AND TOOTHED CLUTCHES, AND GEAR AND CLUTCH HOUSINGS.
Claims use since 1941.

Ser. No. 567,050. SMITHWAY MACHINE CO., INC., Seattle, Wash. Filed Oct. 15, 1948.

XL MOLDMATCHER

FOR WOODWORKING MACHINES—NAMELY, AN ELECTRICALLY POWER OPERATED MACHINE FOR PRODUCING WOODEN MOLDING AND TRIM IN PREDETERMINED SHAPES.
Claims use since May 10, 1947.

Ser. No. 568,195. JONAS & COLVER (NOVO) LIMITED, Sheffield, England. Filed Nov. 4, 1948.

INTRA

Applicant claims ownership of United States Registrations Nos. 57,461, 63,405, and British Registration No. 285,797-8/4224-5S, dated Aug. 30, 1906.
FOR MACHINE TOOLS AND PARTS THEREOF—NAMELY, MACHINE KNIVES, TWIST DRILLS, MILLING AND OTHER MACHINERY CUTTERS.

Ser. No. 569,495. HENRY A. VERBRUGGE, Port Washington, N. Y. Filed Nov. 26, 1948.

ROTO STIRRER

The term "Stirrer" is disclaimed.
FOR BAR SPOONS.
Claims use since June 20, 1948.

Ser. No. 569,817. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich. Filed Dec. 3, 1948.

The drawing is lined for red. The words "Motors" and "America's Standard" are disclaimed. Applicant claims ownership of Registrations Nos. 118,628, 232,103, 234,709, 344,456, 349,271, and 277,423.
FOR INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION—NAMELY, AUTOMOTIVE, MARINE, AND INDUSTRIAL POWER APPLICATION; MECHANICAL DRIVING UNITS FOR GENERATORS; REPLACEMENT AND SPARE PARTS FOR SAID ENGINES AND POWER PLANTS—NAMELY, CARBURETORS, GOVERNORS, GEARS AND TRANSMISSIONS, LUBRICANT PUMPS, FUEL PUMPS, POWER TAKE-OFF DRIVES, PULLEYS, SHAFT COUPLINGS, POWER SHAFTS, ENGINE HOUSINGS, COOLING BAFFLES FOR SAID ENGINES; ENGINE SPEED CONTROLLING AND REGULATING MECHANISMS, BASE STRUCTURES AND FRAME SUPPORTS FOR SAID ENGINES AND POWER PLANTS, EXHAUST GAS MUFFLERS, AND INTAKE AND EXHAUST MANIFOLDS FOR SAID ENGINES AND POWER PLANTS.
Claims use since Mar. 18, 1914.

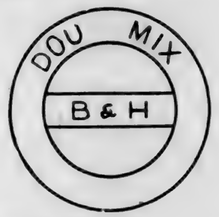
Ser. No. 579,994. BERNARD S. OREN, doing business as United States Industries, Chicago, Ill. Filed June 4, 1949.

Applicant disclaims the words "Product of Merit" and "United States Industries" and the term "U S."
FOR POWER DRIVEN SANDING MACHINES AND PARTS THEREOF.
Claims use since Jan. 29, 1949.

Ser. No. 581,483. HUBBARD AND COMPANY, Pittsburgh, Pa. Filed July 2, 1949.

FOR TOOLS AND SIMILAR DEVICES—NAMELY, MAULS, HAMMERS, SLEDGES, MATTOCKS, PICKS, HOES, WEDGES, BARS, CROWBARS, SPIKE BARS, DIGGING BARS, TAMPING BARS, WRENCHES, PUNCHES, CHISELS, DRIFT PINS, FULLERS, TONGS, AND RAIL FORKS.
Claims use since July 1948.

Ser. No. 584,524. BEASLEY AND HABERLE, Jacksonville, Tex. Filed Sept. 7, 1949.



The term "Mix" is disclaimed.
FOR AGITATOR EQUIPPED MACHINERY FOR MIXING AND DISSOLVING CHEMICALS.
Claims use since May 15, 1949.

Ser. No. 585,609. SPEED CONTROL CORPORATION, Wickliffe, Ohio. Filed Sept. 30, 1949.

SPECON

FOR POWER TRANSMISSIONS.
Claims use since July 1, 1948.

Ser. No. 587,490. H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 8, 1949. (Sec. 2f.)

HANDY

Applicant claims ownership of Registration No. 248,306.
FOR UNITARY HAND-OPERATED SPRAYERS, ALL ONE PIECE FOR DIFFUSING AND SPRAYING INSECTICIDES, FUNGICIDES, DISINFECTANTS, DEODORANTS, COLD WATER PAINTS, WHITEWASH, DETERGENTS AND SIMILAR PREPARATIONS IN SPRAYABLE FORM.
Claims use since Dec. 31, 1912.

Ser. No. 588,445. FRANCIS M. MITCHELL, doing business under the assumed name of Marvel Shear Manufacturing Co., Portland, Oreg. Filed Nov. 28, 1949.

"Marvel"

FOR BARBER SHEARS AND SHEARS FOR GENERAL HOUSEHOLD USE AND FOR TAILOR, BUTTONHOLE, EMBROIDERY AND PINKING SCISSORS AND SCISSORS FOR GENERAL HOUSEHOLD USE.
Claims use since Sept. 1, 1949.

Ser. No. 588,657. REEVES PULLEY COMPANY, Columbus, Ind. Filed Dec. 1, 1949. (Sec. 2f.)

MOTO DRIVE

Applicant disclaims the word "Drive."
FOR VARIABLE SPEED POWER UNITS FOR TRANSMITTING ROTARY MOTION AT VARYING OUTPUT SPEEDS.
Claims use since Feb. 19, 1935.

Ser. No. 589,370. THE V. D. ANDERSON COMPANY, Cleveland, Ohio. Filed Dec. 15, 1949.

RED A LION

The drawing is lined for red. Applicant claims ownership of Registration No. 323,657.
FOR MECHANICAL PRESSES FOR REMOVING OILS AND LIQUIDS, DRYERS FOR PROTEINACEOUS MATERIALS, EQUIPMENT WHEREBY SOLVENT EXTRACTION IS EFFECTED, SCREENING OR SETTLING TANKS WITH MECHANISM FOR REMOVING FOOTS; TOASTERS, AUTOCLAVES, AND CONDITIONERS ALL INCLUDING MECHANICAL AGITATING MEANS, AND PARTS THEREFOR.
Claims use since 1933.

Ser. No. 591,003. E. R. WAGNER MANUFACTURING COMPANY, Milwaukee, Wis. Filed Jan. 17, 1950.

Handi-Maid

The word "Handi" is disclaimed.
FOR CARPET SWEEPERS OF THE MECHANICAL TYPE.
Claims use since March 1949.

Ser. No. 591,512. THE PERMAFUSE CORP., Garden City, N. Y. Filed Jan. 26, 1950.

PERMAFUSE

Applicant claims ownership of Registration No. 390,596.
FOR BRAKE SHOE LINING BONDING APPARATUS—NAMELY, BONDING OVEN, PRESSURE BANDS, SPREADER JACK ASSEMBLIES, SHOE ADAPTERS, LOCATOR SLUGS, ASSEMBLY PLATE AND LINING REMOVING DEVICE, SOLD AS A UNIT; ALSO, HAND BRAKE BONDING SET, CONSISTING OF DUMMY DRUM, SCREW ASSEMBLY, AND HAND NUT, SOLD AS A UNIT; ALSO, CUTTER FOR DELINING BONDED BRAKE SHOES.
Claims use since Apr. 11, 1946.

Ser. No. 591,578. FRANK MITTERMEIER, New York, N. Y. Filed Jan. 27, 1950.

F.M.

FOR CARVING TOOLS—NAMELY, CHISELS AND GOUGERS, FILES AND RASPS.
Claims use since October 1936.

Ser. No. 591,808. J. K. SMIT & SONS, INC., Murray Hill, N. J., assignor to J. K. Smit & Sons, Inc. Filed Feb. 1, 1950.

FOR CAST

The term "Cast" is disclaimed.
FOR DIAMOND BITS.
Claims use since Jan. 13, 1950.

Ser. No. 592,320. JAMES C. HEINTZ & COMPANY, INC., Cleveland, Ohio. Filed Feb. 11, 1950.

TREAD MASTER

The word "Tread" is disclaimed.
FOR TIRE MOLDS.
Claims use since January 1950.

Ser. No. 592,542. BRAINARD STEEL COMPANY, Warren, Ohio. Filed Feb. 16, 1950.

Strap-O-Matic

The word "Strap" is disclaimed.
FOR MANUALLY OPERATED TOOL FOR TIGHTENING METAL BINDING STRIPS, FOR CUTTING THE SAME AND FOR APPLYING METAL SEALS TO SUCH STRIPS.
Claims use since Dec. 15, 1948.

Ser. No. 593,261. THE CLAYTON MANUFACTURING COMPANY, Bristol, Conn. Filed Mar. 2, 1950.

SABER-BLADE

The term "Blade" is disclaimed.
FOR SCISSORS AND SHEARS OF GENERAL HOUSEHOLD UTILITY.
Claims use since Feb. 1, 1950.

Ser. No. 594,656. THE OSBORN MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 25, 1950.

HELI-MASTER

FOR WIRE BRUSHES FORMING PARTS OF INDUSTRIAL MACHINES, BRUSHES MADE FROM WIRE FOR MOUNTING UPON SHAFTING, POWER OPERATED ROTARY BRUSHES FOR POLISHING AND CLEANING, AND SECTIONS AND PARTS OF SUCH BRUSHES.
Claims use since Feb. 2, 1950.

Ser. No. 598,716. EKCO PRODUCTS COMPANY, Chicago, Ill. Filed June 7, 1950.

Keepsake

FOR FLATWARE—NAMELY, TABLE KNIVES AND FORKS, SOUP SPOONS, TEASPOONS, TABLESPOONS, DESSERT SPOONS, SUGAR SHELLS, BUTTER KNIVES, AND SALAD FORKS, ALL MADE OF BASE METALS.
Claims use since Sept. 16, 1949.

Ser. No. 598,793. HAMMOND RESEARCH CORPORATION, Gloucester, Mass. Filed June 8, 1950.

STICWARE

FOR KNIVES, FORKS AND SPOONS.
Claims use since Dec. 21, 1948.

Ser. No. 598,871. SPIR-IT, INC., Malden, Mass. Filed June 9, 1950.

LOBSTIRRER

FOR NON-METALLIC MUDDLERS.
Claims use since April 21, 1950.

Ser. No. 598,904. FEDERATED DEPARTMENT STORES, INC., Cincinnati, Ohio. Filed June 10, 1950. (Sec. 2f.)

LEXINGTON

Applicant claims ownership of Registration No. 275,884.
FOR LAWN MOWERS.
Claims use since Jan. 1, 1927.

Ser. No. 599,245. THE RUSSELL JENNINGS MANUFACTURING COMPANY, New Britain, Conn. Filed June 16, 1950.

Russell Jennings

FOR AUGERS AND BITS.
Claims use since 1855.

Ser. No. 599,645. MORSE SEWING MACHINE AND SUPPLY CORP., New York, N. Y. Filed June 23, 1950.

PREMIER

FOR SEWING MACHINES.
Claims use since Apr. 4, 1950.

Ser. No. 599,713. THE MASSEY-HARRIS COMPANY, Racine, Wis. Filed June 24, 1950.

Depth-o-matic

FOR HYDRAULIC RAMS.
Claims use since Sept. 1, 1948.

CLASS 24
LAUNDRY APPLIANCES AND MACHINES

Ser. No. 594,235. SAGINAW MANUFACTURING CO., Saginaw, Mich. Filed Mar. 18, 1950.

Laundry Queen

The word "Laundry" is disclaimed. Applicant claims ownership of Registration No. 366,195.
FOR FOLDING IRONING TABLES.
Claims use since Feb. 3, 1950.

CLASS 26
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 578,179. WALLACE & TIERNAN PRODUCTS, INC., Belleville, N. J. Filed May 3, 1949.

THERMARINE

FOR INSTRUMENTS, SOMETIMES CALLED BATHYTHERMOGRAPHS, FOR MEASURING AND RECORDING WATER TEMPERATURE IN RELATION TO DEPTH, IN LARGE OR DEEP BODIES OF WATER.
Claims use since Feb. 11, 1949.

Ser. No. 589,849. HANKSCRAFT COMPANY, Reedsburg, Wis. Filed Dec. 23, 1949.

DEPEND A TROL

FOR TIME CONTROL SWITCH.
Claims use since January 1948.

Ser. No. 594,337. SMITH & UNDERWOOD, Royal Oak, Mich. Filed Mar. 21, 1950.

Inform Control

FOR THERMOMETERS FOR USE AS CONTROLS FOR INDICATING PROPER HEAT PROCESSING OF MILK AND MILK FORMULAS, AND FOR USE IN INFANT FORMULA AUTOCLAVING.
Claims use since Oct. 4, 1949.

Ser. No. 597,211. STEPHEN E. LASZLO, Brooklyn, N. Y. Filed May 10, 1950.

Pride

FOR OPERA GLASSES AND BINOCULARS.
Claims use since Apr. 25, 1949.

CLASS 28
JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 543,716. JO-ART'S JEWELRY COMPANY, Kansas City, Mo. Filed Dec. 8, 1947.

TRIPLE C PERFECT

The word "Perfect" is disclaimed.
FOR DIAMOND FINGER RINGS.
Claims use since Oct. 15, 1947.

Ser. No. 551,293. MARATHON COMPANY, Attleboro, Mass. Filed Mar. 5, 1948.

KIDDIE KRAFT

The word "Kiddie" is disclaimed. Applicant claims ownership of Registration No. 164,588.
FOR JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES—NAMELY, BIB HOLDERS, BABY PINS, CHAINS AND PENDANTS, LOCKETS, BRACELETS, FINGER RINGS, NECK-CHAINS, AND BROOCHES; FLATWARE; AND HOLLOW WARE, MADE WHOLLY OR IN PART OF STERLING SILVER, SILVERPLATE, GOLD, OR GOLDPLATE.
Claims use since Mar. 1, 1922.

Ser. No. 551,294. MARATHON COMPANY, Attleboro, Mass. Filed Mar. 5, 1948.

TEEN KRAFT

The word "Teen" is disclaimed. Applicant claims ownership of Registration No. 425,652.
FOR JEWELRY FOR PERSONAL ADORNMENT, NOT INCLUDING WATCHES — NAMELY, CHAINS AND PENDANTS, LOCKETS, BRACELETS, FINGER RINGS, NECK-CHAINS, BROOCHES, AND WATCH BANDS; COMPACTS; CIGARETTE CASES; AND COMBINATION CIGARETTE CASES AND LIGHTERS, MADE WHOLLY OR PARTLY OF STERLING SILVER, SILVERPLATE, GOLD, OR GOLDPLATE.
Claims use since Mar. 6, 1946.

Ser. No. 554,571. THE INSTITUTE OF RADIO ENGINEERS, INC., New York, N. Y. Filed Apr. 14, 1948.

FOR LAPEL BUTTONS, PINS, AND WATCH CHARMS.
Claims use since 1913.

Ser. No. 564,237. GROP MANUFACTURING COMPANY, Cleveland, Ohio. Filed July 28, 1948.

Talisman

FOR JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES—NAMELY, MEN'S AND LADIES' FINGER RINGS AND FINGER RING MOUNTINGS, LAPEL PINS, ORNAMENTAL PINS, BREAST PINS, DRESS CLIPS, BROOCHES, EARRINGS, NECKLACES, BRACELETS, TIE CLIPS, 14 K. GOLD AND PLATINUM CUFF LINKS, STICK PINS.
Claims use since Dec. 1, 1947.

Ser. No. 581,874. GEMEX COMPANY, Union, N. J. Filed July 13, 1949.

SONATA

FOR WATCH BANDS.
Claims use since June 29, 1949.

Ser. No. 582,083. EDWARD C. GRASSMANN, INC., Newark, N. J. Filed July 16, 1949.

The trade-mark consists in an arbitrary design simulating the letter "G."
FOR NECKLACE CLASPS.
Claims use since June 10, 1949.

Ser. No. 586,693. THE R. L. GRIFFITH AND SON COMPANY, Providence, R. I. Filed Oct. 22, 1949. (Sec. 2f.)

BARODA

Applicant claims ownership of Registration No. 312,034.
FOR IMITATION STONES FOR JEWELERS' USE, SOLD EITHER ALONE OR MOUNTED IN JEWELRY, SUCH AS FINGER RINGS, BROOCHES, PENDANTS, BRACELETS, AND SIMILAR ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES.
Claims use since 1912.

Ser. No. 587,196. JACQUES KREISLER MANUFACTURING CORPORATION, North Bergen, N. J. Filed Nov. 2, 1949.

FOR TIE CLIPS, CUFF LINKS, KEY CHAINS, WATCH BANDS, AND SHIRT STUDS MADE IN WHOLE OR IN PART OF, OR PLATED WITH, PRECIOUS METAL.
Claims use since Oct. 27, 1949.

Ser. No. 588,506. J. J. NEWBERRY CO., New York, N. Y. Filed Nov. 29, 1949.

LADY JOAN

FOR EARRINGS, FINGER RINGS, CHARMS, BROOCHES, BRACELETS, AND NECKLACES.
Claims use since Nov. 9, 1949.

Ser. No. 589,006. CORO, INC., New York, N. Y. Filed Dec. 8, 1949.

Mantelet

The trade-mark sought to be registered is "Mantelet."
FOR NECKLACES, BRACELETS, FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, PEARL EARRINGS, PEARL BROOCHES, PEARL BRACELETS, STRINGS OF PEARL.
Claims use since June 1949.

Ser. No. 589,597. SIGMA ALPHA EPSILON FRATERNITY, Evanston, Ill. Filed Dec. 19, 1949.

ΣAE

Applicant claims ownership of Registration No. 240,149.
FOR FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL MADE OF PRECIOUS METAL.
Claims use since Mar. 1, 1917.

Ser. No. 589,853. THE INTERNATIONAL SILVER COMPANY, Meriden, Conn. Filed Dec. 23, 1949. (Sec. 2f.)

NEW ENGLAND SILVER PLATE

The words "Silver Plate" are disclaimed.
FOR SILVER-PLATED TABLE WARE.
Claims use since November 1935.

Ser. No. 592,023. JAMES G. FLATAU, Chicago, Ill. Filed Feb. 6, 1950.

Don Juan

FOR WRIST WATCH BANDS.
Claims use since Aug. 15, 1949.

Ser. No. 594,271. LASKO STRAP COMPANY, New York, N. Y. Filed Mar. 20, 1950. (Sec. 2f.)

SNAP-ON

FOR WRIST WATCH STRAPS.
Claims use since March 1940.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 594,875. ZIMMERMAN BRUSH WORKS, INC., Chicago, Ill. Filed Mar. 29, 1950.

Dainty Maid

FOR BROOMS.
Claims use since Feb. 22, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 556,666. STEEL AND TUBE PRODUCTS CO., Milwaukee, Wis. Filed May 10, 1948.

STERICOLD

The word "Cold" is disclaimed.
FOR REFRIGERATED MILK STORAGE TANKS.
Claims use since Dec. 5, 1947.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 567,560. COLDEN MANUFACTURING CO., Newark, N. J. Filed Oct. 25, 1948.

Colden "716" with the DUXBAK Cover

The words "With the" and "Cover" are disclaimed.
FOR MATTRESSES.
Claims use since Sept. 27, 1948.

Ser. No. 588,219. EMMERICH T. IGLER, doing business as E. T. Igler Company, New York, N. Y. Filed Nov. 23, 1949.

"SHELFSERVICE"

FOR WARDROBE RACKS.
Claims use since Nov. 21, 1949.

Ser. No. 588,470. M. ARON CORPORATION, New York, N. Y. Filed Nov. 29, 1949.

Arco-Ty-Bar

The word "Ty" is disclaimed.
FOR NECKTIE DISPLAY RACK.
Claims use since Sept. 15, 1949.

CLASS 33

GLASSWARE

Ser. No. 589,878. ARNOLD VAN DEN BERG CO., INC., New York, N. Y. Filed Dec. 23, 1949.

BELLGLASS

FOR HAND BLOWN GLASSWARE, CLEAR OR COLORED—NAMELY, DRINKING GLASSES, BOWLS, VASES, AND TRAYS.
Claims use since 1946.

Ser. No. 589,879. ARNOLD VAN DEN BERG CO., INC., New York, N. Y. Filed Dec. 23, 1949.

CASTELGLASS

FOR CRYSTAL GLASSWARE—NAMELY, DRINKING GLASSES, BOWLS, VASES, AND TRAYS.
Claims use since 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 570,173. B. ALTMAN & CO., New York, N. Y. Filed Dec. 8, 1948.

The mark consists of a monogram comprising the notation "BA&CO."
FOR COMBINED AIR CONDITIONING AND HEATING OR COOLING UNITS; HEATING DEVICES—NAMELY, GAS BURNERS, STOVES AND RANGES,

FIREPLACES; OVENS, RADIATOR COVERS; NON-ELECTRIC LIGHTING FIXTURES, LAMPS, LAMP SHADES, AND CANDLE STICKS; EXHAUST FANS OR BLOWERS.
Claims use since 1915.

Ser. No. 572,067. GEORGE E. FLEMING, doing business as George E. Fleming Company, Darlington, S. C. Filed Jan. 28, 1949.

HEATERATOR

FOR ROOM HEATING COAL BURNING STOVES, FURNACES, BOILERS, AND PARTS THEREOF.
Claims use since Aug. 26, 1948.

CLASS 37
PAPER AND STATIONERY

Ser. No. 558,574. G. H. BÜHRMANN'S PAPIERGROOTHANDEL N. V., Amsterdam, Netherlands. Filed June 18, 1948.

1935 GHB HOLLAND

No claim is made to the word "Holland." Applicant claims ownership of Netherlands Registration No. 67,837, dated Feb. 22, 1935.
FOR WRITING PAPER AND ENVELOPES; BOND PAPER; BLANK BANK PAPER; LEDGER PAPER; SAFETY PAPER; MANIFOLD PAPER; MIMEOGRAPH PAPER; DRAWING PAPER; TRACING PAPER; BOOK PAPER; OFF-SET AND LITHOGRAPHIC PRINTING PAPERS; COATED PAPER; BLOTTING PAPER; COVER PAPER; MONOTYPE PAPER; CONDENSER PAPER IN THE SHEET; FILTER PAPER IN SHEETS AND ROLLS; GUMMED PAPER IN THE SHEET; WATER-PROOFED PAPER; STRAW PAPER; SULFITE, KRAFT, AND MANILA WRAPPING PAPER; TISSUE PAPER; TOILET TISSUE; FACIAL TISSUE; CIGARETTE PAPER IN THE SHEET; GREASE-PROOF PAPER; PARCHMENT PAPER; CELLOPHANE IN SHEETS AND ROLLS FOR WRAPPING; METAL PAPER; METAL COATED PAPER; BOX COVER PAPER; BRISTOL BOARD; POSTCARD STOCK; PLAYING CARD STOCK; CARD INDEX STOCK PAPER; PRESSBOARD STOCK PAPER; CORRUGATED BOARD AND PAPER; BRAILLE PRINTING PAPER; WRITING PADS; AND ENVELOPES AND WRITING PAPER SOLD IN BOXES, COMPENDIUMS, AND PACKETS.

Ser. No. 568,871. RUSSELL INDEX COMPANY, Pittsburgh, Pa. Filed Nov. 12, 1948.

l-m-n-r-t

Applicant claims ownership of Registration No. 162,172.
FOR INDEXES—NAMELY, INDEX FORMS, INDEX SHEETS, AND THE COVERS OF INDEX BOOKS, DOCKETS, AND RECORD BOOKS.
Claims use since 1911.

Ser. No. 572,678. NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J. Filed Jan. 24, 1949.

FROSTEX

FOR OPAQUE WAXED PAPER.
Claims use since April 1939.

Ser. No. 589,467. OXFORD FILING SUPPLY CO., INC., Garden City, N. Y. Filed Dec. 16, 1949. (Sec. 2f.)

Oxford

Applicant claims ownership of Registrations Nos. 130,874, 278,892, and 278,893.
FOR INDEX CARDS, INDEX GUIDES, GUIDE CARDS, FILING FOLDERS, PAPER CLIPS, FILE CLIPS, INDEX TABS, BLANK AND PARTIALLY PRINTED GUMMED LABELS, FILE POCKETS, FILING ENVELOPES, AND FILING JACKETS.
Claims use since Dec. 27, 1918.

Ser. No. 591,179. MARATHON CORPORATION, Rothschild, Wis. Filed Jan. 20, 1950.

BAKEtex

FOR BAKERS' WRAPPING PAPER.
Claims use since Oct. 31, 1949.

Ser. No. 591,180. MARATHON CORPORATION, Rothschild, Wis. Filed Jan. 20, 1950.

WHITEX

FOR BUTCHERS' WRAPPING PAPER.
Claims use since Nov. 2, 1949.

Ser. No. 591,393. APEX PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 25, 1950.

Mascot

FOR PENCILS.
Claims use since Aug. 24, 1949.

Ser. No. 591,485. INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed Jan. 26, 1950.

Puretest

FOR BUTCHERS' WRAPPING PAPER.
Claims use since Jan. 18, 1950.

Ser. No. 592,084. MOHAWK PAPER MILLS, INC., Cohoes and Waterford, N. Y. Filed Feb. 7, 1950.

DIANA

FOR TEXT AND COVER PAPERS.
Claims use since July 11, 1949.

Ser. No. 592,437. SHERMAN PAPER PRODUCTS CORPORATION, Newton, Mass. Filed Feb. 14, 1950.

CORRODEK 108

Applicant claims ownership of Registrations Nos. 309,625 and 518,305.
FOR CORRUGATED PAPER LINERS FOR BAKING PANS.
Claims use since July 1947.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 591,795. NATIONAL COMICS PUBLICATIONS, INC., New York, N. Y. Filed Feb. 1, 1950.

DANGER TRAIL

FOR CARTOON MAGAZINE PUBLISHED PERIODICALLY.
Claims use since Jan. 17, 1950.

Ser. No. 592,628. HEARST MAGAZINES INC., New York, N. Y. Filed Feb. 17, 1950.

FOR MAGAZINE FEATURE, SECTION, OR DEPARTMENT.
Claims use since Oct. 20, 1949.

Ser. No. 592,702. THE ELECTRONIC & HOBBYCRAFT STORES, INC., Philadelphia, Pa. Filed Feb. 18, 1950.

E-H IRON HORSE

FOR PUBLICATION, PUBLISHED FROM TIME TO TIME.
Claims use since Sept. 1, 1949.

Ser. No. 592,924. NEW YORK HERALD TRIBUNE INC., New York, N. Y. Filed Feb. 23, 1950.

Peter Rabbit

FOR COMIC STRIP.
Claims use since Aug. 15, 1920.

CLASS 39
CLOTHING

Ser. No. 506,862. TED COHEN INC., New York, N. Y. Original filed, act of 1905, Aug. 5, 1946; amended to application under act of 1946, Supplemental Register, Feb. 11, 1948; amended to Principal Register, Sept. 27, 1950.

STYLED BY Ted Cohen

Applicant disclaims the descriptive notation "Styled By." The mark "Ted Cohen" comprises the name of the president of applicant corporation.
FOR DRESSES FOR WOMEN, MISSES, AND GIRLS.
Claims use since July 20, 1943.

Ser. No. 515,883. KAUFMAN KNITTING COMPANY, Minneapolis, Minn. Original filed, act of 1905, Jan. 17, 1947; amended to application under act of 1946, Principal Register, Feb. 26, 1949.

nan dorsey

The name "Nan Dorsey" is fanciful.
FOR LADIES', GIRLS', AND CHILDREN'S SWEATERS, SKIRTS, BLOUSES, SLACKS, SLACK SUITS, BATHING SUITS, AND RAINCOATS.
Claims use since January 1941.

Ser. No. 529,006. GOOD LUCK GLOVE COMPANY, Carbondale, Ill. Filed July 21, 1947. (Sec. 2f.)

DOUBLE DUTY

FOR FABRIC WORK GLOVES.
Claims use since August 1936.

Ser. No. 537,050. LAMPL FASHIONS, INC., Cleveland, Ohio. Filed Oct. 7, 1947. (Sec. 2f.)

Lamfal

Applicant claims ownership of Registrations Nos. 347,305 and 357,294.
FOR WOMEN'S CLOTHING—NAMELY, DRESSES, SWEATERS, SWEATER COATS, BLOUSES, OUTER

SHIRTS, JACKETS, SKIRTS, COATS, SUITS, BATHING SUITS, OUTER SHORTS, SLACKS, SLACK SUITS, ROBES, AND RAINCOATS.
Claims use since Jan. 1, 1920.

Ser. No. 559,267. C. W. ANDERSON, doing business as C. W. Anderson Hosiery Co., Clinton, S. C. Filed June 16, 1948.

Dapperettes

FOR LADIES' HOSIERY.
Claims use since May 31, 1947.

Ser. No. 576,402. CLAMP-ON CORPORATION, New York, N. Y. Filed Mar. 31, 1949.

Cozy Jane

FOR APRONS.
Claims use since Apr. 28, 1948.

Ser. No. 578,430. ZONITE PRODUCTS CORPORATION, New York, N. Y. Filed May 7, 1949.

Weepers

FOR DIAPER PANTS.
Claims use since Mar. 16, 1949.

Ser. No. 581,738. I. SCHNEIERSON & SONS, INC., New York, N. Y. Filed July 9, 1949.

Glo-Satine

The word "Satine" is disclaimed. Applicant claims ownership of Registrations Nos. 246,775 and 321,305.
FOR LADIES' AND CHILDREN'S PRINCESS SLIPS, NIGHTGOWNS, PAJAMAS, CHEMISES, AND LADIES' UNIFORMS FOR WORK PURPOSES, OF A TEXTILE FABRIC.
Claims use since Feb. 1, 1926.

Ser. No. 584,807. FLEETWOOD SPORTWEAR, INC., New York, N. Y. Filed Sept. 14, 1949.

"KILTY-NAP"

The word "Nap" is disclaimed.
FOR KNITTED SWEATERS FOR LADIES, MISSES, AND CHILDREN.
Claims use since Aug. 12, 1949.

Ser. No. 585,179. MCLELLAN STORES COMPANY, New York, N. Y. Filed Sept. 22, 1949.

LADY LELLA

FOR HOSIERY.
Claims use since 1929 as to "Lella"; and since Aug. 22, 1949, as shown.

Ser. No. 587,198. HOWARD M. LORENTZEN, Boone, Iowa. Filed Nov. 2, 1949.

Soc-Nap

The term "Soc" is disclaimed.
FOR DISPOSABLE STOCKING SHIELDS USED AROUND THE ANKLES BY HUMANS WHILE THEIR SHOES ARE BEING SHINED.
Claims use since Oct. 1, 1949.

Ser. No. 587,433. EXCEL GARMENT MANUFACTURING COMPANY, Minneapolis, Minn. Filed Nov. 7, 1949.

FOR OUTER GARMENTS—NAMELY, SNOWSUITS AND STORMCOATS.
Claims use since Oct. 1, 1949.

Ser. No. 591,403. CHEVETTE, INC., New York, N. Y. Filed Jan. 25, 1950.

Petti Kilt

The drawing is lined for shading. The word "Petti" is disclaimed.
FOR GIRDLES, FOUNDATION GARMENTS, BRASSIÈRES, SLIPS, PANTIES, CHEMISES.
Claims use since Dec. 5, 1949.

Ser. No. 591,969. WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed Feb. 3, 1950.

Belle-Sharmeer
STOCKINGS
designed for the individual

No claim is made to the words "Stockings Designed for the Individual." Applicant claims ownership of Registrations Nos. 302,252, 341,893, and others.
FOR HOSIERY.
Claims use since August 1932.

Ser. No. 592,411. ARTCRAFT HOSIERY MILLS, INC., Darby, Pa. Filed Feb. 14, 1950.

FOTOGRAVURE

FOR LADIES' HOSIERY.
Claims use since Jan. 19, 1950.

Ser. No. 592,529. ELLEN TROY, New York, N. Y. Filed Feb. 15, 1950.

Ellen Troy

FOR LADIES' HOSIERY—NAMELY, STOCKINGS.
Claims use since June 1946.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 600,885. FOSTER GRANT CO., INC., Leominster, Mass. Filed July 19, 1950.

WILDWEST

FOR COMBS.
Claims use since June 9, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 559,789. CROMPTON COMPANY, West Warwick, R. I. Filed June 2, 1948.

KRUSHVEL

FOR FABRICS IN THE PIECE COMPOSED OF COTTON, WOOL, SILK, RAYON, NYLON, CELLULOSE ACETATE, PROTEIN FIBERS, OR MIXTURES THEREOF.
Claims use since Dec. 6, 1939.

Ser. No. 566,187. J. P. STEVENS & CO., INC., New York, N. Y. Filed Sept. 30, 1948.

The words "Industrial Denims" are disclaimed.
FOR DENIM FABRICS.
Claims use since 1921.

Ser. No. 580,122. NATHAN COHEN UPHOLSTERY & DRAPERY FABRICS, INC., New York, N. Y. Filed June 8, 1949.

The word "Fabrics" is disclaimed.
FOR UPHOLSTERY AND DRAPERY FABRICS, COMPRISING COTTON, RAYON, SILK, WOOL, AND COMBINATIONS THEREOF, SOLD BY THE PIECE OR BY THE YARD.
Claims use since Sept. 13, 1935.

Ser. No. 580,256. PACIFIC MILLS, Boston, Mass., and New York, N. Y. Filed June 10, 1949.

A PACIFIC CONTOUR SHEET

The words "Contour" and "Sheet" are disclaimed. Applicant claims ownership of Registrations Nos. 156,383, 352,001, 398,279, and 402,733.
FOR SHEETS.
Claims use since May 5, 1947.

Ser. No. 582,112. UNITED WALLPAPER, INC., Chicago, Ill. Filed July 16, 1949.

ENDURA-CLOTH

The word "Cloth" is disclaimed.
FOR PLASTIC COATED FABRIC USED FOR WALL COVERINGS.
Claims use since June 9, 1949.

Ser. No. 588,101. C. H. MASLAND & SONS, Carlisle, Pa. Filed Nov. 19, 1949.

Beautiblend

FOR TEXTILE CARPETS AND RUGS.
Claims use since Oct. 15, 1949.

Ser. No. 588,191. THOMASTON COTTON MILLS, Thomaston, Ga. Filed Nov. 22, 1949.

PAGE

Applicant claims ownership of Registrations Nos. 179,911, 179,963, and 181,789.
FOR BED SHEETS.
Claims use since December 1921.

Ser. No. 588,192. THOMASTON COTTON MILLS, Thomaston, Ga. Filed Nov. 22, 1949.

TAVERN

Applicant claims ownership of Registration No. 262,136.
FOR BED SHEETS.
Claims use since 1927.

Ser. No. 588,336. THOMASTON COTTON MILLS, Thomaston, Ga. Filed Nov. 25, 1949. (Sec. 2f.)

THOMASTON

Applicant claims ownership of Registration No. 228,811.
FOR BED SHEETS.
Claims use since Sept. 1, 1925.

Ser. No. 588,415. WIEBOLDT STORES, INC., Chicago, Ill. Filed Nov. 26, 1949. (Sec. 2f.)

Everwear

FOR TEXTILE CARPETING AND RUGS.
Claims use since Apr. 18, 1938.

Ser. No. 588,802. INDIAN RIVER FABRICS, INC., Marietta, Ga. Filed Dec. 5, 1949.

INDIAN RIVER Fabrics

The word "Fabrics" is disclaimed.
FOR TEXTILE FABRICS OF COTTON, WOOL, AND SYNTHETIC FIBERS.
Claims use since Jan. 1, 1948.

Ser. No. 589,013. FABRIC PRINTS, INC., New York, N. Y. Filed Dec. 8, 1949.

Cinquolyn

FOR PIECE GOODS OF NYLON, RAYON, AND COMBINATIONS OF NYLON AND RAYON.
Claims use since August 1949.

Ser. No. 589,014. FABRIC PRINTS, INC., New York, N. Y. Filed Dec. 8, 1949.

Nylo' Kool

The word "Kool" is disclaimed.
FOR PIECE GOODS OF RAYON, NYLON, AND COMBINATIONS OF RAYON AND NYLON.
Claims use since August 1949.

Ser. No. 589,015. FABRIC PRINTS, INC., New York, N. Y. Filed Dec. 8, 1949.

Nylo' Stitch

The word "Stitch" is disclaimed.
FOR PIECE GOODS OF NYLON, RAYON, AND COMBINATIONS OF NYLON AND RAYON.
Claims use since August 1949.

Ser. No. 589,256. D. B. FULLER & CO., INC., New York, N. Y. Filed Dec. 13, 1949.

CARTWHEEL

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF.
Claims use since Feb. 1, 1949.

Ser. No. 589,418. CHARLES BERNSTEIN & SON, doing business as Bernside Mills, New York, N. Y. Filed Dec. 16, 1949.

TRIXCORD

FOR PIECE GOODS (INCLUDING CORDUROY) OF COTTON, WOOL, RAYON, AND MIXTURES THEREOF.
Claims use since Mar. 1, 1949.

Ser. No. 589,925. THOMASTON COTTON MILLS, Thomaston, Ga. Filed Dec. 24, 1949.

The representation of the boy is fanciful. No claim is made to the words "Quality Muslin." Applicant claims ownership of Registrations Nos. 179,911, 179,963, and 181,789.
FOR BED SHEETS.
Claims use since December 1921.

Ser. No. 590,938. MERIT TEXTILE FABRICS INC., New York, N. Y. Filed Jan. 16, 1950.

EMTEX

FOR COTTON, LINEN, RAYON, SILK, AND WOOL TEXTILE FABRICS.
Claims use since Apr. 12, 1948.

Ser. No. 591,185. OPPENHEIM & BARUCH, INC., New York, N. Y. Filed Jan. 20, 1950.

Susan Glenn

The name "Susan Glenn" is fanciful.
FOR TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, AND SILK, AND VEILINGS, NETTINGS, AND LACE PIECE GOODS.
Claims use since July 1, 1947.

Ser. No. 591,256. SCHEIN WOOLEN CORP., New York, N. Y. Filed Jan. 21, 1950.

KING CORD

The word "Cord" is disclaimed.
FOR CORDUROY PIECE GOODS.
Claims use since Nov. 7, 1949.

Ser. No. 598,040. J. ROSENHOLZ, INC., New York, N. Y. Filed May 24, 1950.

CHECKALON

FOR PIECE GOODS WOVEN FROM ALL NYLON YARNS.
Claims use since May 12, 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 540,202. THE POPE FOUNDATION, INC., Chicago, Ill. Filed Nov. 5, 1947.

KLENZAK

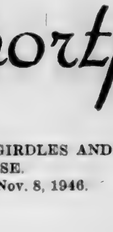
FOR ORTHOPEDIC BRACES.
Claims use since Jan. 11, 1940.

Ser. No. 548,498. HANKSCRAFT COMPANY, Madison, Wis. Filed Jan. 31, 1948.

Vapor-Master

The word "Vapor" is disclaimed.
FOR ELECTRICALLY-HEATED STEAM VAPORIZER.
Claims use since July 1, 1947.

Ser. No. 563,668. DUFRAME SPECIALTY COMPANY, Chicago, Ill. Filed Aug. 18, 1948.



The words "Anal Tubette" and the representation of the goods are disclaimed. The mark consists in the showing of the arrangement of the tubette and trocar along with the particular placing and design of the words "Duframe Anal Tubette," all as shown in the drawing.
FOR ANAL INSERTS SUCH AS RECTAL DILATORS.
Claims use since June 25, 1948.

Ser. No. 566,620. MAURICE KLINE, doing business as General Scientific Equipment Company, Philadelphia, Pa. Filed Oct. 7, 1948.

FOR SAFETY DEVICES FOR PROTECTION AGAINST INDUSTRIAL HAZARDS—NAMELY, DUST AND GAS MASKS, RESPIRATORS, DEVICES FOR REMOVING FOREIGN BODIES FROM THE EYE, AND FORCEPS FOR REMOVAL OF SPLINTERS.
Claims use since January 1947.

Ser. No. 570,793. ROOT ELASTIC FABRICS, INC., New York, N. Y. Filed Dec. 18, 1948.

Sportflex

FOR ELASTIC GIRDLES AND SUPPORTERS, BOTH FOR SURGICAL USE.
Claims use since Nov. 8, 1946.

Ser. No. 572,147. THE AMALGAMATED DENTAL COMPANY LIMITED, London, England. Filed Jan. 14, 1949. (Sec. 2f.)

ASH'S

FOR DENTAL INSTRUMENTS AND UTENSILS, NAMELY; BURS; EXCAVATORS; GAGS; HANDPIECES, I. E. BUR HOLDERS; SCULPTORS; FLASKS; DENTAL ENGINES; IMPRESSION TRAYS; SUCTION DISCS; SHAPING PLIERS; METAL BARS—STRENGTHENERS FOR VULCANITE DENTURES; RETAINING TAGS FOR VULCANITE DENTURES.

Claims use since January 1924 in Great Britain; and since January 1924 in commerce between Great Britain and the United States which may lawfully be regulated by Congress.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 547,212. JOSEPH WHEWELL & SONS, Burnley, Lancaster, England. Filed Jan. 15, 1948.

ST.ORA

Applicant claims ownership of United States Registration No. 233,525, and British Registration No. 264,031.

FOR MALTLESS EXTRACT USED IN THE PREPARATION OF SOFT DRINKS.

Claims use since 1905 in Great Britain; and first used in commerce between foreign countries and the United States since October 1927.

Ser. No. 560,909. MARYLAND BEVERAGE COMPANY, INC., Baltimore, Md. Filed July 8, 1948.

B Y - A

Applicant claims ownership of Registration No. 385,570.

FOR CANNED FRUIT FLAVORED BEVERAGES SOLD AS MALTLESS SOFT DRINKS.

Claims use since Apr. 24, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 507,273. OLD JUDGE COFFEE COMPANY, INC., St. Louis, Mo., and Louisville, Ky., by change of name from David G. Evans Coffee Company and assignee of The Ouerbacker Coffee Co. Original filed, act of 1905, Aug. 12, 1946; amended to application under act of 1946, Principal Register, Jan. 28, 1949. (Sec. 2f.)

OUERBACKER'S

FOR GRAPE JELLY, STRAWBERRY PRESERVES, CLOVES, PRUNE JUICE, OLIVES, PEANUT BUTTER, CINNAMON, DRIED BEANS, COFFEE, RICE, TEA, AND SALTED PEANUTS.

Claims use since Nov. 1, 1909.

Ser. No. 522,763. FURST-MCNESS COMPANY, Freeport, Ill. Original filed, act of 1905, May 21, 1947; amended to application under act of 1946, Principal Register, Dec. 5, 1947. (Sec. 2f as to "McNess.")

McNess

CHAMPION

FOR FOOD FLAVORING EXTRACTS, AND BAKING POWDER.

Claims use since Apr. 1, 1940.

Ser. No. 525,327. HOLLY HILL FRUIT PRODUCTS, INCORPORATED, Davenport, Fla. Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Sept. 11, 1947.

Golden Holly

Applicant claims ownership of Registration No. 352,748.

FOR FRESH AND CANNED CITRUS FRUITS, CANNED CITRUS FRUIT JUICES, AND CITRUS FRUIT JELLIES AND MARMALADES.

Claims use since Oct. 1, 1936.

Ser. No. 532,248. HARVEY S. MUDD, Los Angeles, Calif. Filed Aug. 23, 1947.

ROGUE

FOR FRESH DECIDUOUS FRUITS.

Claims use since Jan. 2, 1926.

Ser. No. 532,565. COMSTOCK CANNING CORPORATION, Newark, N. Y. Filed Aug. 27, 1947. (Sec. 2f as to "Comstock.")

No claim is made to the word "Pie" or the representation of a pie. The drawing is lined to indicate the color blue. Applicant claims ownership of Registrations Nos. 416,568, 373,785, 401,362, and others.

FOR CANNED AND FROZEN APPLES.

Claims use since Nov. 7, 1938.

Ser. No. 537,895. H. H. KEIM COMPANY, Nampa, Idaho. Filed Oct. 15, 1947. (Sec. 2f.)

KEIM'S Bestever PRODUCTS

The word "Products" is disclaimed.

FOR MEATS AND MEAT PRODUCTS—NAMELY, HAM, PORK SHOULDER, JELLIED BEEF, FRANKFURTERS, PORK SAUSAGE, BOLOGNA, DELUXE LOAF AND CHORIZOS—NAMELY, PORK SAUSAGES.

Claims use since April 1942.

Ser. No. 538,937. LINDSAY RIPE OLIVE COMPANY, Lindsay, Calif. Filed Oct. 24, 1947. (Sec. 2f.)

VALENCIA

Applicant claims ownership of Registration No. 366,772.

FOR CANNED OLIVES.

Claims use since 1933.

Ser. No. 540,144. ARMOUR AND COMPANY, Chicago, Ill. Filed Nov. 5, 1947. (Sec. 2f.)

FAULTLESS

FOR BACON.

Claims use since 1908.

Ser. No. 545,030. OLIVE HEIGHTS CITRUS ASSOCIATION, Olive, Calif. Filed Dec. 20, 1947. (Sec. 2f.)

TROY

Applicant claims ownership of Registration No. 204,328.

FOR FRESH CITRUS FRUITS.

Claims use since Jan. 1, 1914.

Ser. No. 545,432. BLISS STRUP & PRESERVING CO., Kansas City, Mo. Filed Dec. 26, 1947.

PALLAS

Applicant claims ownership of Registrations Nos. 81,358 and 83,279.

FOR FRUIT BUTTER, APPLE BUTTER, AND APPLE-CHERRY JELLY.

Claims use since February 1904.

Ser. No. 546,165. ATWOOD COFFEE COMPANY, doing business as Atwood Coffee Co., Minneapolis, Minn. Filed Jan. 5, 1948. (Sec. 2f as to "Atwood's.")

Atwood's
PRIVATE BRAND
The COFFEE of Good Taste

The words "Private Brand" and "The Coffee of Good Taste" are disclaimed.

FOR COFFEE.

Claims use since Aug. 1, 1945, as to the composite mark; since December 1943 as to "Atwood's" together with the words "The Coffee of Good Taste"; and since 1907 as to "Atwood's."

Ser. No. 546,166. ATWOOD COFFEE COMPANY, doing business as Atwood Coffee Co., Minneapolis, Minn. Filed Jan. 5, 1948.

Colonial Club

FOR COFFEE.

Claims use since Apr. 1, 1926.

Ser. No. 554,790. K. HOVDEN, doing business under the name and style of Western Fish Products Co., Monterey, Calif., assignor to Hovden Food Products Corporation, Monterey, Calif., a corporation of California. Filed Apr. 16, 1948. (Sec. 2f.)

OCEAN FRESH

Applicant claims ownership of Registration No. 416,601.

FOR CANNED FISH.

Claims use since July 2, 1940.

Ser. No. 555,012. THE PORTERVILLE CITRUS ASSOCIATION, Porterville, Calif. Filed Apr. 19, 1948.

THE PORTERVILLE
PRIDE

The words "The" and "Porterville" are disclaimed. Applicant claims ownership of Registration No. 233,274.

FOR FRESH CITRUS FRUITS.

Claims use since 1934.

Ser. No. 559,671. BASIC FOODS, INC., New York, N. Y., assignor to Curt Michaelis, Weehawken, N. J. Filed June 19, 1948.

DIXIE

FOR ICING FOR CAKES AND COOKIES.
Claims use since June 1, 1938.

Ser. No. 565,545. E. F. DREW & CO., INC., New York, N. Y. Filed Sept. 21, 1948.

PLANTATION

FOR SALAD OIL.
Claims use since Feb. 2, 1948.

Ser. No. 567,466. NEIL PRODUCTS INC., Los Angeles, Calif. Filed Oct. 22, 1948. (Sec. 2f.)

Neil

Applicant claims ownership of Registration No. 355,950.
FOR FRUIT, BERRY, BUTTER, AND VANILLA CONCENTRATES FOR FOODS; CHOCOLATE SYRUP FOR FOOD FLAVORING PURPOSES; CRUSHED FRUITS; CRUSHED STRAWBERRIES; CONSERVED FRUITS; LEMON OIL FOR FOOD FLAVORING PURPOSES; AND ORANGE OIL FOR FOOD FLAVORING PURPOSES.
Claims use since Mar. 31, 1937.

Ser. No. 567,485. C. A. BENNEN, Nogales, Ariz. Filed Oct. 23, 1948.

Yolanda

FOR FRESH TOMATOES.
Claims use since Dec. 1, 1940.

Ser. No. 573,670. L. H. MOORE CANNING COMPANY, McAllen, Tex. Filed Feb. 10, 1949. (Sec. 2f.)

MOORE'S

Applicant claims ownership of Registration No. 424,561.
FOR CANNED FRUITS, CANNED CITRUS FRUIT JUICES, AND CANNED VEGETABLES.
Claims use since December 1938.

Ser. No. 576,565. W. T. YOUNG FOODS, INC., doing business as Magic Gold Foods Co., Lexington, Ky. Filed Apr. 2, 1949.

P-T "Petey"

The drawing is lined for shading only.
FOR PEANUT BUTTER.
Claims use since Dec. 23, 1948.

Ser. No. 581,441. THE PLOEGER-ABBOTT COMPANY, Darien, Ga. Filed July 1, 1949. (Sec. 2f.)

SEA ISLAND

Applicant claims ownership of Registration No. 187,153.
FOR CANNED OYSTERS, CANNED CRAB MEAT, FRESH CRAB MEAT, FRESH HEADLESS SHRIMP, FRESH FISH PACKED IN ICE, FRESH FROZEN SHRIMP, AND FRESH FROZEN FISH.
Claims use since June 19, 1923.

Ser. No. 584,210. YAKIMA FRUIT & COLD STORAGE CO., Yakima, Wash. Filed Aug. 29, 1949.

Apple Road

The word "Apple" is disclaimed.
FOR FRESH APPLES.
Claims use since July 1, 1949.

Ser. No. 584,401. JOHNNY J. INC., Lansford, Pa. Filed Sept. 2, 1949.

POPPY

The words "A Product of Johnny J. Inc." and the representation of the goods are disclaimed. The representation of a girl is fanciful. The stippling shown on the drawing is for shading.
FOR PREPARED SALTED POPCORN.
Claims use since June 10, 1949.

Ser. No. 585,729. C. T. TAKAHASHI, doing business as C. T. Takahashi & Co., Seattle, Wash. Filed Oct. 3, 1949.

GREEN ARCH

Applicant claims ownership of Registration No. 256,420.
FOR CANNED CRAB MEAT.
Claims use since Apr. 1, 1927.

Ser. No. 586,048. DAISY PET FOOD CO., Hollywood, Calif. Filed Oct. 10, 1949.

DAISY

No claim is made for the words "from Hollywood."
FOR DOG AND CAT FOOD.
Claims use since Mar. 14, 1949.

Ser. No. 586,321. SINAM PRODUCTS CORP., New York, N. Y. Filed Oct. 14, 1949.

VE·YUEN

The words "Ve Yuen" are disclaimed. The Chinese words may be translated to mean "True Flavor."
FOR MONO-SODIUM GLUTAMATE SEASONING POWDER FOR FOOD PURPOSES.
Claims use since Dec. 31, 1941.

Ser. No. 586,735. DI GIORGIO FRUIT CORPORATION, San Francisco, Calif. Filed Oct. 24, 1949.

BLUE PARROT

Applicant claims ownership of Registration No. 186,281.
FOR FRESH PEARS.
Claims use since May 1, 1920.

Ser. No. 587,195. KRAFT FOODS COMPANY, Chicago, Ill. Filed Nov. 2, 1949.

Teez

Applicant claims ownership of Registration No. 441,170.
FOR CONDIMENT IN THE FORM OF A SAUCE CONSISTING PRINCIPALLY OF VEGETABLE SALAD OIL AND VINEGAR USED ESPECIALLY FOR SALADS, SEAFOODS, SANDWICHES, AND MEATS.
Claims use since September 1947.

Ser. No. 588,333. SWIFT & COMPANY, Chicago, Ill. Filed Nov. 25, 1949.

KOLLEST

FOR GLYCEROL DERIVATIVE OF SELECTED HYDROGENATED VEGETABLE FATS USED AS AN INGREDIENT OF ICE CREAM AND CANDY.
Claims use since June 1946.

Ser. No. 588,478. CHARLES A. CARI, doing business as Phoenix Candy Company, Brooklyn, N. Y. Filed Nov. 29, 1949. (Sec. 2f.)

PHOENIX

FOR CANDIES.
Claims use since February 1923.

Ser. No. 588,694. LIFE SAVERS CORPORATION, Port Chester, N. Y. Filed Dec. 2, 1949.

SALVAVIDAS

The word "Salvavidas" means in English "life preservers." Applicant claims ownership of Registrations Nos. 141,179, 141,181, and 235,060.
FOR CANDIES.
Claims use since Feb. 28, 1913.

Ser. No. 588,709. ROWNTREE AND COMPANY LIMITED, York, England. Filed Dec. 2, 1949.

DAIRY BOX

The word "Box" is disclaimed.
FOR CHOCOLATES.
First used in 1936 in Great Britain; and first used in commerce between Great Britain and the United States which may lawfully be regulated by Congress in December 1948.

Ser. No. 588,815. SELL'S SPECIALTIES, INC., New York, N. Y. Filed Dec. 5, 1949. (Sec. 2f.)

SELL'S

Applicant claims ownership of Registration No. 418,170.
FOR LIVER PASTE MIX.
Claims use since Sept. 28, 1944.

Ser. No. 588,818. WILBUR-ELLIS COMPANY, San Francisco, Calif. Filed Dec. 5, 1949.

Southern Star

FOR CANNED FISH.
Claims use since Jan. 25, 1949.

Ser. No. 589,681. WINDY CITY CONFECTIONS & SALES CO., INC., Chicago, Ill. Filed Dec. 23, 1949.
The drawing is lined for red.

AFFY-TAPPLE

FOR CANDIED FRUIT CONFECTION—NAMELY, CARAMEL AND NUT-COATED APPLES.
Claims use since Sept. 1, 1948.

Ser. No. 590,740. B. FILIPPONE & CO., INC., Passaic, N. J. Filed Jan. 12, 1950. (Sec. 2f.)

FILIPPONE'S

Applicant claims ownership of Registration No. 402,210.
FOR WHEAT FLOUR.
Claims use since June 1928.

Ser. No. 591,175. L. T. MALONE, doing business as L. T. Malone Company, Phoenix, Ariz. Filed Jan. 20, 1950.

Jeep

FOR FRESH LETTUCE, CARROTS, BROCCOLI, CAULIFLOWER, AND HONEYDEW MELONS.
Claims use since June 4, 1949.

Ser. No. 591,321. J. C. SHRYOCK, doing business under the firm name Odessa Ice Cream Company, Odessa, Mo. Filed Jan. 23, 1950.

TIZ-A-WHIZ

FOR FROZEN FOOD PRODUCTS—NAMELY, ICE CREAMS AND ICES.
Claims use since Jan. 1, 1948.

CLASS 47

WINES

Ser. No. 574,610. B. CRIBARI & SONS, Fresno, Calif. Filed Feb. 28, 1949.

Old Pride

The word "Old" is disclaimed.
FOR WINES.
Claims use since May 1948.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 584,597. SWEDISH BEER EXPORT CO. AKTIEBOLAG, Goteborg, Sweden. Filed Sept. 8, 1949.

Your drink
THREE TOWNS

The words "Your Drink," "Gothenburg," "Stockholm" and "Malmo" are disclaimed. Applicant claims ownership of Swedish Registration No. 66,715, dated July 1, 1949.
FOR BEER.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 538,302. LICORERIA OCCIDENTAL, S. A., Habana, Cuba. Filed May 16, 1950.

Jiqui

Applicant claims ownership of Cuban Registration No. 70,449, dated May 22, 1946.
FOR RUM.

Ser. No. 570,549. EBBECO DISTILLING CORPORATION, Stamford, Conn. Filed Dec. 15, 1948.

STRATHMORE CLUB

The word "Club" is disclaimed.
FOR WHISKEY.
Claims use since Aug. 30, 1934.

Ser. No. 582,393. STITZEL-WELLER DISTILLERY, Louisville and Shively, Ky. Filed June 16, 1949.

Lee McGill

The name "Lee McGill" is fictitious. Applicant claims ownership of Registration No. 358,468.
FOR WHISKIES.
Claims use since May 27, 1936.

Ser. No. 582,394. STITZEL-WELLER DISTILLERY, Louisville and Shively, Ky. Filed June 16, 1949. (Sec. 2f.)

Old Mock

Applicant claims ownership of Registration No. 310,036.
FOR WHISKIES.
Claims use since 1923.

Ser. No. 589,110. PARK & TILFORD DISTILLERS, INC., New York, N. Y. Filed Dec. 9, 1949.

JIM GREER

"Jim Greer" is the name of James Greer, now deceased. Applicant claims ownership of Registrations Nos. 328,456 and 366,303.
FOR WHISKEY.
Claims use since Feb. 7, 1938.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 559,118. LACY K. PENNINGTON, Fremont, Mich. Filed June 12, 1948.

SAFE-T-PEN

The wording "Saf-T" is disclaimed.
FOR PORTABLE AND ADJUSTABLE SCAFFOLDS.
Claims use since Aug. 5, 1946.

Ser. No. 572,974. HILE-DAMROTH, INC., New York, N. Y. Filed Jan. 28, 1949.

THE BLACK MAGIC BOARD

The word "Board" and the representation of a board are disclaimed.
FOR VISUAL PRESENTATION MATERIALS CONSISTING OF A BOARD AND A SET OF INDICIA ELEMENTS ATTACHABLE THERETO AND SEPARABLE THEREFROM AND INCLUDING INSTRUCTION BOOKLETS PERTAINING THERETO, ADAPTED TO BE USED TO ILLUSTRATE A TALK OR LECTURE.
Claims use since May 18, 1948.

Ser. No. 580,853. HENRY J. NORDENBROCK, Springdale, Ark. Filed June 21, 1949.

SERV-A-MEAL

The word "Meal" is disclaimed.
FOR POULTRY FEEDERS.
Claims use since Apr. 28, 1949.

Ser. No. 584,819. ABRAHAM P. LERMAN, doing business as Florence Art Co., Chicago, Ill. Filed Sept. 14, 1949.

Rock O'Stone

FOR PLASTER OF PARIS AND TERRA COTTA NOVELTIES—NAMELY, DECORATED STATUETTES, FIGURINES, PLAQUES.
Claims use since January 1940.

Ser. No. 593,368. PERFECT CIRCLE CORPORATION, Hagerstown, Ind. Filed Mar. 3, 1950.

MOODYSTAT

Applicant claims ownership of Registrations Nos. 519,705 and 522,686.
FOR ADVERTISING NOVELTY IN THE NATURE OF A MECHANICAL SIGN.
Claims use since Jan. 18, 1950.

Ser. No. 593,940. SEMBODJA CORPORATION OF NEW YORK, New York, N. Y. Filed Mar. 14, 1950.

WING "SUCCESS"

FOR MERCHANDISE DISPLAY FORMS FOR WOMEN'S, MEN'S, AND CHILDREN'S APPAREL ARTICLES.
Claims use since Mar. 9, 1950.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 582,339. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed July 22, 1949. (Sec. 2f.)

NOSHINE

Applicant claims ownership of Registration No. 294,176.
FOR ANTI-SHINE PREPARATION FOR APPLICATION TO THE SKIN.
Claims use since July 10, 1929.

Ser. No. 584,777. JACQUES ROMANO, doing business as The Jamol Co., New York, N. Y. Filed Sept. 13, 1949.

AVATAR

Applicant claims ownership of Registration No. 189,580.
FOR MASSAGING CREAMS, PERFUMES, ANOINT OIL A QUICK ACTING CLEANSER AND BASE FOR FACE POWDER, AND HAIR TONICS.
Claims use since Apr. 22, 1924.

Ser. No. 587,843. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y. Filed Nov. 16, 1949.

Bye-line

FOR LIQUID SKIN CREME PREPARATION.
Claims use since Jan. 10, 1949.

Ser. No. 589,470. JEAN PATOU, INC., New York, N. Y. Filed Dec. 16, 1949.

Pat
de
Jean Patou

The word "Pat" is disclaimed. The name "Jean Patou" is that of a deceased individual, the founder of applicant's business. Applicant claims ownership of Registrations Nos. 306,544 and 523,111.
FOR PERFUMES AND TOILET WATERS.
Claims use since Dec. 6, 1949.

Ser. No. 591,911. CARON CORPORATION, New York, N. Y. Filed Feb. 3, 1950.

PEAU FRAICHE

The word "Peau" is disclaimed. Applicant claims ownership of Registrations Nos. 333,447 and 333,448.
FOR FACE POWDER AND BATH POWDER.
Claims use since August 1947.

Ser. No. 593,476. CLAUDIA M. FARMER, doing business as Far-Mo Laboratories, Omaha, Nebr. Filed Mar. 6, 1950.

Far-Mo

FOR OIL FOR HAIR AND SCALP.
Claims use since 1929.

Ser. No. 594,898. GABRIELEEN CO., INC., Chicago, Ill. Filed Mar. 30, 1950.

TEPIDAIRE

FOR PERMANENT WAVE LOTION.
Claims use since May 1, 1942.

Ser. No. 595,594. CHERAMY, INC., New York, N. Y. Filed Apr. 12, 1950.

Keep Cool

FOR COLOGNE.
Claims use since Mar. 16, 1950.

Ser. No. 595,640. AVON PRODUCTS, INC., New York, N. Y. Filed Apr. 13, 1950.

BLUE ANGEL

FOR TOILET WATER, PERFUME, AND COLOGNE.
Claims use since Apr. 3, 1950.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 567,673. ARWELL, INC., Waukegan, Ill. Filed Oct. 27, 1948.

KING KLENZER

The word "Klenzer" is disclaimed.
FOR PREPARATION USED FOR GENERAL CLEANING AND REMOVING GREASE, HAVING INCIDENTAL WATER SOFTENING PROPERTIES.
Claims use since July 1, 1927.

Ser. No. 590,294. THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed Jan. 5, 1950.

Sterado

Applicant claims ownership of Registration No. 350,750.
FOR CHEMICAL GERMICIDAL CLEANSER, ANTISEPTIC AND DEODORANT FOR USE IN MEAT PACKING PLANTS, BAKERY ESTABLISHMENTS, ICE CREAM FACTORIES, AND THE LIKE.
Claims use since June 13, 1949.

Ser. No. 591,146. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Jan. 20, 1950.

MENTOR

FOR SUDSING CLEANER, CLEANSER, AND DETERGENT FOR INDUSTRIAL AND HOUSEHOLD USE.
Claims use since Jan. 5, 1950.

Ser. No. 591,402. ADOLFO N. CASTRO, New York, N. Y. Filed Jan. 25, 1950.

Nymf-Air

FOR FACIAL SOAP.
Claims use since Sept. 8, 1949.

Ser. No. 591,781. IOWA SOAP COMPANY, Burlington, Iowa. Filed Feb. 1, 1950.

White House
QUICK
Suds

The words "Quick Suds" are disclaimed. Applicant claims ownership of Registrations Nos. 148,091 and 308,456.
FOR POWDERED SOAP.
Claims use since 1931.

SERVICE MARKS

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 579,914. THE CENTRAL MANUFACTURERS' MUTUAL INSURANCE COMPANY, Van Wert, Ohio. Filed June 3, 1949.

PLanalysis

FOR MAKING INSURANCE SURVEYS (A WRITTEN RECORD OF (a) RISKS TO WHICH PROSPECTS ARE EXPOSED, (b) INSURANCE PROTECTION IN FORCE, AND (c) RECOMMENDATIONS FOR INSURANCE PROTECTION TO BE SECURED) FOR INDIVIDUALS, PARTNERSHIPS AND CORPORATIONS.
Claims use since Mar. 1, 1945.

Ser. No. 588,404. EDWIN A. STRAUSS, Cleveland, Ohio. Filed Nov. 26, 1949.

"It is My Business
to do Your Worrying"

FOR BROKERAGE IN INSURANCE—NAMELY, LIFE, ACCIDENT, HEALTH, FIRE, MARINE, CASUALTY, FIDELITY, AND SURETY.
Claims use since June 1936.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 563,297. MARIE SNYDER ALTERATION METHOD, San Francisco, Calif. Filed Aug. 12, 1948.

MARIE SNYDER
ALTERATION
METHOD

The words "Alteration Method" are disclaimed. Marie Snyder, president of the applicant corporation consents to the use of her name in the mark.
FOR INSTRUCTION IN FIGURE FITTING USED IN THE ALTERATION AND MAKING OF WOMEN'S GARMENTS.
Claims use since April 1934.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,344. MEDICINAL TABLETS FOR HYPER-ACIDITY. Louis J. Shapiro, doing business as Hepco Products Company, Providence, R. I.
Filed Sept. 6, 1945, Serial No. 488,055. Published Aug. 15, 1950. Class 18.

444,345. CUTTING TOOLS, HYDRAULIC ACTUATING UNITS, ETC. Odin Corporation, Chicago, Ill.
Filed Feb. 8, 1946, Serial No. 496,261. Published Aug. 29, 1950. Class 23.

444,346. HOUSE PUBLICATION DIRECTED TO THE FIELD OF MEDICINE AND DISTRIBUTED TO PHYSICIANS, DENTISTS, AND PHARMACISTS. Abbott Laboratories, North Chicago, Ill.
Filed May 31, 1946, Serial No. 503,033. Published June 10, 1947. Class 38.

444,347. ORNAMENTS CONSISTING OF PLASTIC DISKS ADAPTED FOR VARIOUS USES, ETC. Rocco Pontarelli, Providence, R. I.
Filed June 5, 1947, Serial No. 523,615. Published Aug. 15, 1950. Class 50.

444,348. THREAD. The Linen Thread Co., Inc., New York, N. Y.
Filed June 6, 1947, Serial No. 523,689. Published Aug. 15, 1950. Class 43.

444,349. MEN'S AND BOYS' SHEEPLINED COATS, LEATHER COATS, LEATHER VESTS, WOOL JACKETS, WOOL SHIRTS, AND MACKINAWS. F. Brody & Sons Co., Des Moines, Iowa.
Filed June 11, 1947, Serial No. 523,943. Published May 18, 1948. Class 39.

444,350. PREPARATIONS FOR HUMAN USE FOR THE TREATMENT OF BACTERIAL INFECTIONS OF THE SKIN, FOR THE TREATMENT OF SKIN DISEASES, AND FOR THE TREATMENT OF INFECTIONS OF WOUNDS. Geigy Company, Inc., New York, N. Y.
Filed June 18, 1947, Serial No. 524,394. Published Aug. 8, 1950. Class 18.

444,351. EAR DROPS. Charles Arnold, trading as Earco Company, Chicago, Ill.
Filed June 26, 1947, Serial No. 524,851. Published Aug. 22, 1950. Class 18.

444,352. TELEVISION PRODUCTION LAYOUT CONSISTING OF A MASTER SCRIPT AND SUGGESTIONS FOR CASTINGS AND REHEARSALS SOLD AS SUCH. Video Associates Inc., New York, N. Y.
Filed July 4, 1947, Serial No. 526,311. Published Aug. 15, 1950. Class 38.

ACT OF 1946, PRINCIPAL REGISTER

534,167. CRASH GOODS IN THE PIECE, TOWELS, AND TOWELING. Startex Mills, Tucapau, S. C.
Original filed, act of 1905, Oct. 3, 1945; amended to application under act of 1946, Principal Register, Apr. 19, 1948, Serial No. 489,363. Published Aug. 29, 1950. Class 42.

534,168. CHEMICAL PREPARATION FOR CLEANING AND PREPARING METAL SURFACES TO RECEIVE PAINT. Neilson Chemical Company, Detroit, Mich.
Original filed, act of 1905, June 20, 1946; amended to application under act of 1946, Principal Register, Nov. 12, 1947, Serial No. 504,858. Published Feb. 28, 1950. Class 52

534,169. ROLLER GRAVITY AND WHEEL GRAVITY CONVEYORS. Harry J. Ferguson Co., Jenkintown, Pa., assignee of Harry J. Ferguson.
Original filed, act of 1905, Oct. 11, 1946; amended to application under act of 1946, Supplemental Register, Apr. 22, 1948; amended to Principal Register, Mar. 2, 1950, Serial No. 510,671. Published Sept. 12, 1950. Class 23.

534,170. HOSE CLAMPS AND FITTINGS, ETC. H. B. Sherman Manufacturing Company, Battle Creek, Mich.
Original filed, act of 1905, Dec. 2, 1946; amended to application under act of 1946, Principal Register, May 5, 1948, Serial No. 513,586. Published Sept. 5, 1950. Class 13.

534,171. SLIDE FASTENERS INCLUDING SLIDE FASTENERS MADE FROM NYLON PLASTIC. Waldes Koh-I-Noor, Inc., Long Island City, N. Y.
Original filed, act of 1905, Jan. 17, 1947; amended to application under act of 1946, Principal Register, Nov. 4, 1947, Serial No. 515,921. Published Sept. 5, 1950. Class 13.

534,172. POTATOES IN THEIR NATURAL STATE. L. S. Taube & Co., Kansas City, Mo.
Original filed, act of 1905, Jan. 20, 1947; amended to application under act of 1946, Principal Register, Dec. 22, 1948, Serial No. 516,110. Published July 18, 1950. Class 46.

534,173. FRESH VEGETABLES. John W. Law Co., Santa Maria and Guadalupe, Calif.
Original filed, act of 1905, Mar. 19, 1947; amended to application under act of 1946, Principal Register, Oct. 13, 1947, Serial No. 519,277. Published June 27, 1950. Class 46.

534,174. MEN'S COLLEGE JACKETS, MEN'S T SHIRTS. Sigma Nu Fraternity, Indianapolis, Ind.
Original filed, act of 1905, June 2, 1947; amended to application under act of 1946, Principal Register, June 14, 1948, Serial No. 523,426. Published Aug. 22, 1950. Class 39.

534,175. MEN'S COLLEGE JACKETS, MEN'S T SHIRTS. Sigma Nu Fraternity, Indianapolis, Ind.
Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Principal Register, June 14, 1948, Serial No. 526,303. Published Aug. 15, 1950. Class 39.

534,176. MEN'S COLLEGE JACKETS, MEN'S T SHIRTS. Sigma Nu Fraternity, Indianapolis, Ind.
Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Principal Register, June 14, 1948, Serial No. 526,304. Published Aug. 22, 1950. Class 39.

534,177. MARINE AND STATIONARY DIESEL ENGINES, LOGGING MACHINERY—NAMELY, YARDERS, ETC. Washington Iron Works, Seattle, Wash.
Filed Aug. 1, 1947, Serial No. 530,274. Published Aug. 22, 1950. Class 23.

534,178. CONCRETE MIXERS, CONCRETE DISTRIBUTING MACHINES, ETC. Koehring Company, Milwaukee, Wis.
Filed Aug. 25, 1947, Serial No. 532,298. Published Aug. 29, 1950. Class 23.

534,179. WOMEN'S AND MISSES' FOUNDATION GARMENTS—NAMELY, BRASSIÈRES, PANTIE GIRDLES, GIRDLES, UNDERPANTS, AND COMBINATIONS THEREOF. The Formfit Company, Chicago, Ill.
Filed Aug. 21, 1947, Serial No. 533,227. Published Nov. 29, 1949. Class 39.

534,180. FREE DISCHARGE VALVES, GATE VALVES, BY-PASS VALVES, ETC. The Pelton Water Wheel Company, San Francisco, Calif.
Filed Sept. 15, 1947, Serial No. 534,552. Published Sept. 12, 1950. Class 23.

534,181. SAND SEPARATORS, SAND BLENDERS, SCRAP REMOVERS, SHAKE-OUTS, COMPOST MIXERS, AND SEWAGE SLUDGE DISINTEGRATORS. Royer Foundry & Machine Company, Kingston, Pa.
Filed Sept. 17, 1947, Serial No. 534,823. Published Aug. 15, 1950. Class 23.

534,182. BLOTTING PAPER. Albemarle Paper Mfg. Company, Richmond, Va.
Filed Sept. 24, 1947, Serial No. 535,444. Published May 2, 1950. Class 37.

534,183. DRAPERIES; UPHOLSTERY AND DRAPERY FABRICS IN THE PIECE AND ROLL, OF COTTON, LINEN, WOOL, AND SYNTHETIC FIBERS; COTTON CLOTH BY THE PIECE AND ROLL; AND COATED AND WATERPROOFED CLOTH IN THE PIECE AND IN THE ROLL, MADE OF COTTON, WOOL, RAYON, NYLON, SILK, AND JUTE. Joanna Western Mills Company, Chicago, Ill.
Filed Oct. 4, 1947, Serial No. 536,822. Published Sept. 14, 1948. Class 42.

534,184. MEN'S, WOMEN'S, BOYS', AND GIRLS' OVERALLS, JUMPERS, WORK JACKETS, WORK SHIRTS, WORK PANTS, MATCHED PANTS, DUNGAREES, BLANKET LINED COATS, COSSACK STYLE COATS, AND ONE-PIECE SUITS. Blue Bell, Inc., Greensboro, N. C.
Filed Oct. 7, 1947, Serial No. 536,993. Published Jan. 31, 1950. Class 39.

534,185. AUTOGRAPHIC REGISTERS. The Egry Register Company, Dayton, Ohio.
Filed Oct. 17, 1947, Serial No. 538,111. Published Aug. 15, 1950. Class 23.

534,186. WELL-DRILLING, SERVICING AND PRODUCTION EQUIPMENT AND PARTS THEREOF, COMPRISING DERRICK RIGS, ETC. International Derrick & Equipment Company, Columbus, Ohio.
Filed Oct. 29, 1947, Serial No. 539,419. Published Sept. 12, 1950. Class 23.

534,187. OVERSHOES MADE WHOLLY OR PARTLY OF RUBBER. The B. F. Goodrich Company, Akron, Ohio, and New York, N. Y.
Filed Nov. 5, 1947, Serial No. 540,188. Published July 25, 1950. Class 39.

534,188. CUSHION SEAL BUTTON USED IN TUFTING MATTRESSES. Walter H. Hadley, doing business as The Sof-Tuf Company, Indianapolis, Ind., assignor to The Sof-Tuf Company, Inc., Bloomington, Ind.
Filed Nov. 19, 1947, Serial No. 541,670. Published Sept. 12, 1950. Class 40.

534,189. KRAFT PAPER, BOND PAPER, MANILA PAPER, TRANSVERSELY-PERFORATED PAPER, ALL OF SAID PAPER INCLUDING UNGUMMED PAPER AND GUMMED PAPER, SOLD IN WIDE ROLLS. Mid-States Gummed Paper Co., Chicago, Ill.
Filed Sept. 9, 1947, Serial No. 543,012. Published May 2, 1950. Class 37.

534,190. CORDUROY FABRICS IN THE ORIGINAL PIECE COMPOSED OF COTTON OR RAYON OR MIXTURES THEREOF FREE OF WOOL OR WORSTEDS. Crompton Company, Crompton, R. I.
Filed Dec. 3, 1947, Serial No. 543,129. Published May 10, 1949. Class 42.

534,191. PUBLICATIONS IN CARD FORM FOR USE WITH ENLARGERS ON WHICH CARDS, PRINTING, PICTURES, LEGENDS AND THE LIKE, ARE PRODUCED IN REDUCED SIZE BY PRINTING, PHOTOGRAPHING OR OTHERWISE. The Micro Library Incorporated, La Crosse, Wis.
Filed Dec. 9, 1947, Serial No. 543,825. Published Jan. 24, 1950. Class 38.

534,192. MEN'S NECKTIES, HATS, CAPS, SHOES MADE OF LEATHER, ETC. The Erie Clothing Company, Inc., Chicago, Ill.
Filed Dec. 10, 1947, Serial No. 543,910. Published Aug. 29, 1950. Class 39.

534,193. MACHINED METAL CASTINGS READY TO USE AS MACHINE PARTS. The Dalton Foundries, Inc., Warsaw, Ind.
Filed Dec. 12, 1947, Serial No. 544,155. Published Aug. 29, 1950. Class 23.

534,194. UNDERWEAR AND OUTERWEAR—NAMELY, SWEATERS, SWEAT-SHIRTS AND POLO SHIRTS, BATHING SUITS AND HOSIERY. York Knitting Mills, Limited, Toronto, Ontario, Canada.
Filed Apr. 23, 1949, Serial No. 544,809. Published Aug. 22, 1950. Class 39.

534,195. LOOSE LEAF BOOK PAPER. National Blank Book Company, Holyoke, Mass.
Filed Dec. 19, 1947, Serial No. 544,897. Published May 23, 1950. Class 37.

534,196. TAPPING MACHINES AND PARTS THEREOF, ETC. Mueller Co., Decatur, Ill.
Filed Dec. 22, 1947, Serial No. 545,154. Published Sept. 5, 1950. Class 23.

534,197. SANDWICH SPREAD COMPOSED OF CREAM CHEESE, CAVIAR, AND SPICES. Perry H. Chipurnoi, Inc., New York, N. Y.
Filed Dec. 26, 1947, Serial No. 545,443. Published May 30, 1950. Class 46.

534,198. FLOUR SUPPLEMENT, CONTAINING WHEAT GERM, EDIBLE FATS, CALCIUM, AND MINERAL SALTS. The Bryo Company, Chicago, Ill.
Filed Jan. 7, 1948, Serial No. 546,356. Published July 25, 1950. Class 46.

534,199. COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOPCOATS, AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. J. Schoeneman, Inc., Baltimore, Md.
Filed Jan. 8, 1948, Serial No. 546,517. Published Aug. 22, 1950. Class 39.

534,200. FRESH VEGETABLES AND MELONS. M. O. Best, doing business as M. O. Best Company, Phoenix, Ariz.
Filed Jan. 10, 1948, Serial No. 546,644. Published July 11, 1950. Class 46.

534,201. MEAT PRODUCTS—NAMELY, HAM, BACON, PORK SHOULDER PICNICS AND PORK SHOULDER BUTTS; ETC. William Davies Co., Inc., Chicago, Ill.
Filed Jan. 10, 1948, Serial No. 546,671. Published July 18, 1950. Class 46.

534,202. CANNED PINEAPPLE, CANNED PINEAPPLE JUICE, AND FROZEN FRESH PINEAPPLE. Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, and San Francisco, Calif.
Filed Jan. 19, 1948, Serial No. 547,451. Published July 11, 1950. Class 46.

534,203. ACCUMULATORS AND HYDRAULIC POWER PRESSES. BIRDSBORO STEEL FOUNDRY AND MACHINE COMPANY, Birdsboro, Pa.
Filed Jan. 21, 1948, Serial No. 547,609. Published Sept. 5, 1950. Class 23.

534,204. ACOUSTIC SIGNALLING APPARATUS—NAMELY, SOUND SIGNALLING APPARATUS AND APPARATUS FOR PRODUCING MECHANICAL VIBRATIONS. KOCKUMS MEKANISKA VERKSTADS AKTIEBOLAG, Malmo, Sweden.
Filed Jan. 26, 1948, Serial No. 548,169. Published Aug. 29, 1950. Class 23.

534,205. HIGHWAY LANE DIVIDING MARKERS. INTERNATIONAL HIGHWAY MARKER CO., Chicago, Ill.
Filed Feb. 6, 1948, Serial No. 548,966. Published Aug. 15, 1950. Class 50.

534,206. BOB PINS. SOLO PRODUCTS CORPORATION, New York, N. Y.
Filed Feb. 11, 1948, Serial No. 549,477. Published Aug. 15, 1950. Class 40.

534,207. BITUMINOUS COAL. BOONE COUNTY COAL CORPORATION, Sharples, W. Va.
Filed Feb. 13, 1948, Serial No. 549,612. Published July 18, 1950. Class 1.

534,208. FISH HOOKS. S. ALLCOCK & COMPANY LIMITED, Redditch, Worcester, England.
Filed Feb. 20, 1948, Serial No. 550,203. Published Sept. 6, 1949. Class 22.

534,209. PERIODICAL RELATED TO MATERIALS, EQUIPMENT AND APPLICATIONS FOR ARCHITECTS, ENGINEERS, BUILDERS, CONTRACTORS, REALTORS, OWNER MANAGERS, DEALERS AND OTHER AFFILIATES. THOMAS PUBLISHING COMPANY, New York, N. Y.
Filed Feb. 24, 1948, Serial No. 550,461. Published Feb. 15, 1949. Class 38.

534,210. OTTOMANS AND MOUNTINGS THEREFOR. BIRGER NORDBY, Oslo, Norway.
Filed Feb. 28, 1948, Serial No. 550,823. Published Aug. 22, 1950. Class 32.

534,211. IMITATION METAL LEAF AND PIGMENT MOUNTED ON A ROLL OF PAPER. PEERLESS ROLL LEAF CO., INC., Union City, N. J.
Filed Mar. 6, 1948, Serial No. 551,399. Published Sept. 5, 1950. Class 11.

534,212. DUFFEL BAGS AND PACK SACKS. VON LENGERKE & ANTOINE, Chicago, Ill.
Filed Mar. 23, 1948, Serial No. 552,820. Published Aug. 15, 1950. Class 3.

534,213. FLEXIBLE FLOOR COVERING MADE OF RUBBER, ASPHALT, OR OTHER PLASTIC MATERIAL, AND COVE BASE MADE OF THE SAME MATERIAL. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
Filed Mar. 24, 1948, Serial No. 552,856. Published Aug. 29, 1950. Class 20.

534,214. ABRASION AND CORROSION RESISTING METALLIC ALLOY GRINDING BALLS AND LININGS FOR BALL AND PEBBLE MILLS. THE H. W. NORTH COMPANY, Erie, Pa.
Filed Mar. 24, 1948, Serial No. 552,870. Published Sept. 5, 1950. Class 23.

534,215. CERAMIC AND PORCELAIN GRINDING BALLS AND LININGS FOR BALL AND PEBBLE MILLS. THE H. W. NORTH COMPANY, Erie, Pa.
Filed Mar. 24, 1948, Serial No. 552,871. Published Sept. 5, 1950. Class 23.

534,216. STAINLESS STEEL COOKING, KITCHEN, HOUSEHOLD AND HOSPITAL WARE, ETC. CARROLLTON MANUFACTURING COMPANY, Carrollton, Ohio.
Filed Apr. 21, 1948, Serial No. 555,157. Published Sept. 5, 1950. Class 13.

534,217. NATIONALLY DISTRIBUTED WEEKLY MAGAZINE SUPPLEMENT FOR NEWSPAPERS. UNITED NEWSPAPERS MAGAZINE CORPORATION, New York, N. Y.
Filed Apr. 24, 1948, Serial No. 555,575. Published Aug. 22, 1950. Class 38.

534,218. COLLARS ATTACHED TO MEN'S OUTER SHIRTS. STETSON SHIRT CO. INC., New York, N. Y.
Filed Apr. 30, 1948, Serial No. 555,968. Published Aug. 29, 1950. Class 39.

534,219. FORMS INTERLEAVED WITH CARBON SHEETS. THE WORKMAN MANUFACTURING COMPANY, Chicago, Ill.
Filed May 5, 1948, Serial No. 556,302. Published Aug. 22, 1950. Class 37.

534,220. METALLIC VALVES USED IN CONNECTION WITH COMPRESSORS AND PUMPS. DURABLA MANUFACTURING COMPANY, New York, N. Y.
Filed May 14, 1948, Serial No. 557,027. Published Aug. 15, 1950. Class 23.

534,221. WRITING PAPER. EMPIRE PAPER COMPANY, Chicago, Ill.
Filed May 14, 1948, Serial No. 557,029. Published Aug. 15, 1950. Class 37.

534,222. PERIODICAL IN THE NATURE OF A HOUSE ORGAN, PUBLISHED AT REGULAR INTERVALS. FIRST INDUSTRIAL CORPORATION, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware.
Filed May 29, 1948, Serial No. 558,123. Published Aug. 29, 1950. Class 38.

534,223. POCKET PURSES, PURSE KITS IN THE NATURE OF A POCKETBOOK, PURSE, ETC. MARIONESS & CO., INC., New York, N. Y.
Filed June 2, 1948, Serial No. 558,307. Published Aug. 15, 1950. Class 3.

534,224. MACHINES FOR MAKING METAL STAYS AND MACHINES FOR APPLYING METAL STAYS TO PAPER BOXES. NATIONAL METAL EDGE BOX COMPANY, Philadelphia, Pa.
Filed June 5, 1948, Serial No. 558,579. Published Sept. 5, 1950. Class 23.

534,225. TROUSERS FOR MEN AND BOYS. STAG CLOTHES, INC., Philadelphia, Pa.
Filed June 8, 1948, Serial No. 558,760. Published Aug. 22, 1950. Class 39.

534,226. CANDY. EMILI H. GARDNER, Fort Worth, Tex.
Filed June 18, 1948, Serial No. 559,599. Published July 18, 1950. Class 46.

534,227. LAXATIVE HERB TEA INCLUDING A SENNA DRUG AS ONE OF ITS INGREDIENTS. JOHN J. GAPINSKI, doing business as Senoia Company, Chicago, Ill.
Filed June 22, 1948, Serial No. 559,918. Published Sept. 5, 1950. Class 18.

534,228. LEATHER. BOLTON LEATHERS LIMITED, Bolton, England.
Filed May 25, 1948, Serial No. 560,516. Published Aug. 29, 1950. Class 1.

534,229. LEATHER. BOLTON LEATHERS LIMITED, Bolton, England.
Filed May 25, 1948, Serial No. 560,517. Published Aug. 29, 1950. Class 1.

534,230. BOYS' AND YOUTHS' DRESS, NEGLIGEE, AND WORK SHIRTS AND BLOUSES, PAJAMAS, AND UNDERWEAR—NAMELY, SHIRTS, DRAWERS, UNION SUITS, RUNNING PANTS, AND DRAWERS OTHERWISE KNOWN AS SHORTS. MAYER SILPEN, doing business as Monroe Shirt Company, New York, N. Y.
Filed Mar. 17, 1948, Serial No. 561,410. Published Aug. 8, 1950. Class 39.

534,231. SALAD AND COOKING OIL, COFFEE, TEA, EVAPORATED MILK, TABLE SYRUPS, ETC. SCHLOSS & KAHN GROCERY COMPANY, Montgomery, Ala.
Filed July 28, 1948, Serial No. 562,408. Published July 18, 1950. Class 46.

534,232. LOCAL ANESTHETIC PRIMARILY USED IN DENTAL SURGERY. AKTIEBOLAGET ASTRA, APOTEKARNES KEMISKA FABRIKER, Sodertalje, Sweden.
Filed July 29, 1948, Serial No. 562,437. Published May 16, 1950. Class 18.

534,233. NAILS, HINGES, HASPS, BOLTS, LEAD FITTINGS, ETC. HALL & CO., INC., Spartanburg, S. C.
Filed Aug. 5, 1948, Serial No. 562,850. Published Sept. 5, 1950. Class 13.

534,234. RAZORS AND RAZOR BLADES. DURHAM-ENDERS RAZOR CORPORATION, Mystic, Conn.
Filed Aug. 10, 1948, Serial No. 563,113. Published Aug. 22, 1950. Class 23.

534,235. PERIODICALS PUBLISHED ANNUALLY IN VARIOUS FIELDS, ETC. F. W. DODGE CORPORATION, New York, N. Y.
Filed Aug. 18, 1948, Serial No. 563,666. Published Aug. 29, 1950. Class 38.

534,236. PLUG VALVES, GATE VALVES, GLOBE VALVES, ANGLE VALVES, NEEDLE VALVES, AND BALANCED CONTROL OR THROTTLING VALVES AS USED IN INSTRUMENT CONTROL OR METERING SYSTEMS. WEDGEPLUG VALVE COMPANY, INC., New Orleans, La.
Filed Apr. 21, 1948, Serial No. 564,020. Published Sept. 5, 1950. Class 13.

534,237. JEWELRY FOR PERSONAL WEAR NOT INCLUDING WATCHES—NAMELY, BRACELETS, CARD CASES, CUFF LINKS, COLLAR BUTTONS, ETC. ILLINOIS WATCH CASE CO., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill.
Filed June 17, 1948, Serial No. 564,078. Published May 16, 1950. Class 28.

534,238. MEDICINAL COMPOUND FOR THE TREATMENT OF CONSTIPATION, DISEASES OF THE LIVER, AND A GENERAL TONIC. SYLVIO A. CHAPUT, administrator of the estate of Henry E. Chaput (deceased), doing business as The Laxatine Company, Upper Darby, Pa.
Filed June 21, 1948, Serial No. 564,080. Published Aug. 15, 1950. Class 18.

534,239. LEATHER. JOHN R. EVANS & COMPANY, Camden, N. J.
Filed Sept. 1, 1948, Serial No. 564,506. Published Aug. 29, 1950. Class 1.

534,240. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, SALAD DRESSINGS, TOMATO JUICE, ETC. SCHLOSS & KAHN GROCERY COMPANY, Montgomery, Ala.
Filed Sept. 3, 1948, Serial No. 564,656. Published July 18, 1950. Class 46.

534,241. HOUSE ORGAN ISSUED PERIODICALLY. CORNING GLASS WORKS, Corning, N. Y.
Filed Sept. 4, 1948, Serial No. 564,712. Published Sept. 5, 1950. Class 38.

534,242. VELVET FABRICS IN THE PIECE COMPOSED OF SILK AND SYNTHETIC FIBERS. CROMPTON COMPANY, Crompton, R. I.
Filed Sept. 16, 1948, Serial No. 565,237. Published Aug. 29, 1950. Class 42.

534,243. NEWSPAPER COLUMNS. LOUIS G. COWAN, INCORPORATED, New York, N. Y.
Filed Sept. 20, 1948, Serial No. 565,481. Published Aug. 15, 1950. Class 38.

534,244. LITTER MATERIAL CONSISTING OF PEANUT HULLS FOR POULTRY AND OTHER DOMESTIC ANIMAL BEDDING. LEONARD F. WINSLOW, Richmond, Va.
Filed Sept. 24, 1948, Serial No. 565,834. Published Aug. 15, 1950. Class 1.

534,245. MILLINERY BRAIDS. EMBRUSA, INC., New York, N. Y.
Filed Sept. 27, 1948, Serial No. 565,914. Published Aug. 29, 1950. Class 40.

534,246. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, ROUGE, LIPSTICKS, BRILLIANTINE, LOTION FOR THE SKIN AND HAIR, BATH SALTS, DENTIFRICES. PAQUIN LIMITED, Paris, France.
Filed Oct. 2, 1948, Serial No. 566,359. Published Sept. 6, 1949. Class 51.

534,247. ANTI-FREEZE PREPARATION. C. G. WHITLOCK CHEMICAL COMPANY, Springfield, Ill.
Filed Oct. 7, 1948, Serial No. 566,680. Published July 25, 1950. Class 6.

534,248. EQUIPMENT AND APPARATUS USED IN THE HANDLING AND ADMINISTERING OF MEDICINAL GASES, ETC. NATIONAL CYLINDER GAS COMPANY, Chicago, Ill.
Filed Oct. 14, 1948, Serial No. 567,003. Published Aug. 29, 1950. Class 44.

534,249. SHOES CONSTRUCTED OF LEATHER. THE H. C. GODMAN COMPANY, Columbus, Ohio.
Filed Oct. 28, 1948, Serial No. 567,776. Published Aug. 22, 1950. Class 39.

534,250. INSULATED WIRE. CORNISH WIRE COMPANY, Paterson, N. J.
Filed Nov. 3, 1948, Serial No. 568,099. Published Aug. 22, 1950. Class 21.

534,251. CANNED SEA MUSSELS FOR CHOWDERS AND STEWS, CANNED CLAM CHOWDER, SARDINE COCKTAIL SPREAD, CANNED FLAKED FISH, SARDINES IN OIL, SARDINES IN TOMATO SAUCE AND SARDINES IN MUSTARD SAUCE, CANNED FRIED CLAMS; AND CANNED BLUEBERRIES. NORTH ATLANTIC PACKING COMPANY, Boston, Mass.
Filed Nov. 6, 1948, Serial No. 568,325. Published July 11, 1950. Class 46.

534,252. PLASTIC HAIR CURLERS. STERLING PLASTICS CO., Township of Union and Union, N. J.
Filed Nov. 6, 1948, Serial No. 568,335. Published Aug. 29, 1950. Class 40.

534,253. SHALE SHAKERS FOR WELL DRILLING MUD. HUTCHISON MANUFACTURING COMPANY, Houston, Tex.
Filed Nov. 12, 1948, Serial No. 568,621. Published Sept. 12, 1950. Class 23.

534,254. MEN'S SUITS, TOPCOATS, OVERCOATS, JACKETS, AND SLACKS. MANNIE WALKER & SONS CLOTHING CORP., New York, N. Y.
Filed Nov. 12, 1948, Serial No. 568,698. Published Aug. 22, 1950. Class 39.

534,255. PERFUMES AND/OR SCENTS IN A CREAM BASE FOR PERSONAL USE AND KNOWN AS CREME SACHET. CINDERELLA UNUSUAL COSMETICS, INC., Memphis, Tenn.
Filed Dec. 2, 1948, Serial No. 569,744. Published Sept. 5, 1950. Class 51.

534,256. WHEAT FLOUR. COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., also doing business under the trading name Omaha Flour Mills Co., Omaha, Nebr., assignee of Omar Incorporated.
Filed Dec. 3, 1948, Serial No. 569,883. Published June 27, 1950. Class 46.

534,257. MOUTHWASH, BRILLIANTINE, ALL PURPOSE LOTION, ETC. B. H. MACY & CO., INC., New York, N. Y.
Filed Dec. 7, 1948, Serial No. 570,108. Published Aug. 29, 1950. Class 51.

534,258. SYNTHETIC BRAIDS USED IN THE MANUFACTURE OF HAT BODIES. E. C. SCHERRER, INC., New York, N. Y.
Filed Dec. 22, 1948, Serial No. 570,988. Published Sept. 12, 1950. Class 40.

534,259. GROUP A—AUGER BITS, AXES, BACKSAWS, BREAST DRILLS, CHISELS, FILES, ETC. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Dec. 24, 1948, Serial No. 571,096. Published Aug. 22, 1950. Class 23.

534,260. COTTER PINS. AMERICAN CHAIN & CABLE COMPANY, INC., Bridgeport, Conn.
Filed Dec. 8, 1948, Serial No. 571,697. Published Aug. 22, 1950. Class 13.

534,261. HOME PERMANENT HAIR-WAVING KIT, CONSISTING OF CREME WAVING LOTION, PLASTIC CURLERS, END PAPERS, AND NEUTRALIZER SOLUTION. THE J. R. WATKINS COMPANY, Winona, Minn.
Filed Jan. 14, 1949, Serial No. 572,225. Published Aug. 29, 1950. Class 44.

534,262. TOILET PAPER. KATZ DRUG COMPANY, Kansas City, Mo.
Filed Jan. 25, 1949, Serial No. 572,749. Published Aug. 8, 1950. Class 37.

534,263. CHILDREN'S DRESSES. B. ALTMAN & CO., New York, N. Y.
Filed Feb. 1, 1949, Serial No. 573,110. Published Aug. 23, 1949. Class 39.

534,264. INSECTICIDE. ANCO LABORATORIES, Henderson, Ky.
Filed Feb. 1, 1949, Serial No. 573,111. Published Sept. 5, 1950. Class 6.

534,265. ORCHESTRAL ARRANGEMENTS AND OTHER MUSICAL ARRANGEMENTS PUBLISHED PERIODICALLY. GRANT JOHNSON, doing business as Stutz Henderson, South Bend, Ind.
Filed Feb. 4, 1949, Serial No. 573,325. Published Sept. 5, 1950. Class 38.

534,266. TOYS COMPRISING SEALED PLASTIC CONTAINERS, PARTIALLY TRANSPARENT, AND HAVING OBJECTS THEREIN. ALFRED A. ANTHONY, New York, N. Y.
Filed Feb. 5, 1949, Serial No. 573,350. CERTIFICATION MARK. Published Aug. 15, 1950. Class 22.

534,267. PARASITICIDES—NAMELY, INSECTICIDES AND AGRICULTURAL FUNGICIDES. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif.
Filed Feb. 5, 1949, Serial No. 573,353. Published Sept. 5, 1950. Class 6.

534,268. PUBLICATIONS ISSUED IN A SERIES OR FROM TIME TO TIME. ELBERN H. ALKIRE, doing business as Eddie Alkire Publications, Easton, Pa.
Filed Feb. 7, 1949, Serial No. 573,397. Published Aug. 15, 1950. Class 38.

534,269. PIZZA SAUCE. CONTE & SONS PACKING CO., Perkasie, Pa.
Filed Feb. 9, 1949, Serial No. 573,530. Published July 18, 1950. Class 46.

534,270. MEN'S, WOMEN'S, AND CHILDREN'S COATS, OVERCOATS, ETC. JONES, MORGAN & CO., INC., Waterbury, Conn.
Filed Feb. 15, 1949, Serial No. 573,881. Published Aug. 29, 1950. Class 39.

534,271. U. S. P. PETROLATUM. L. SONNEBORN SONS, INC., New York, N. Y.
Filed Feb. 17, 1949, Serial No. 574,063. Published Aug. 15, 1950. Class 18.

534,272. HEMORRHOIDAL SUPPOSITORIES. WHITEHALL PHARMACAL COMPANY, New York, N. Y.
Filed Feb. 17, 1949, Serial No. 574,071. Published Sept. 5, 1950. Class 18.

534,273. BUTTER AND EVAPORATED MILK. MILK PRODUCERS ASSOCIATION OF CENTRAL CALIFORNIA, Modesto, Calif.
Filed Feb. 28, 1949, Serial No. 574,633. Published July 18, 1950. Class 46.

534,274. STRAW HAT BODIES FOR WOMEN, MEN, AND CHILDREN. HENRY POLLAK, INC., New York, N. Y.
Filed Mar. 1, 1949, Serial No. 574,729. Published Aug. 29, 1950. Class 39.

534,275. LOOSE-LEAF CATALOGS, SECTIONS THEREOF, AND ADDITIONS THERETO PUBLISHED FROM TIME TO TIME. PORTE PUBLISHING COMPANY, Salt Lake City, Utah.
Filed Mar. 9, 1949, Serial No. 575,157. Published Aug. 22, 1950. Class 38.

534,276. WEARING APPAREL—NAMELY, MEN'S WORK SHIRTS AND TROUSERS, OVERALLS OR ONE-PIECE SUITS, COATS, SWEATERS, JACKETS, AND CAPS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed Mar. 14, 1949, Serial No. 575,429. Published Aug. 15, 1950. Class 39.

534,277. ELECTRIC STAND LAMPS, ELECTRIC PORTRAIT LIGHTS, INDIRECT ELECTRIC LAMPS, AND DECORATIVE COLUMNS WITH ELECTRIC LAMPS. NIEPOLD'S, Washington, D. C.
Filed Mar. 21, 1949, Serial No. 575,777. Published Aug. 22, 1950. Class 21.

534,278. WALL CALENDARS. SHAW-BARTON, INC., Coshocton, Ohio.
Filed Mar. 28, 1949, Serial No. 576,231. Published Aug. 15, 1950. Class 38.

534,279. SPORT SHIRTS, BASQUE SHIRTS, POLO SHIRTS, DRESS SHIRTS, ETC. NORRAD SPORTSWEAR, New York, N. Y.
Filed Mar. 30, 1949, Serial No. 576,350. Published Aug. 15, 1950. Class 39.

534,280. INJECTIBLE PHARMACEUTICAL PREPARATION FOR THE TREATMENT OF CERTAIN HEPATIC AFFECTIONS. LABORATORIO TORRES S. A., Sao Paulo, Brazil.
Filed Apr. 2, 1949, Serial No. 576,541. Published Sept. 5, 1950. Class 18.

534,281. NEWSPAPER SECTION DEVOTED TO THE FIELD OF TEXTILE MACHINERY, EQUIPMENT, AND SUPPLIES. FAIRCHILD PUBLICATIONS, INC., New York, N. Y.
Filed Apr. 5, 1949, Serial No. 576,636. Published Aug. 15, 1950. Class 38.

534,282. GREETING CARDS. NORCROSS, INC., New York, N. Y.
Filed Apr. 7, 1949, Serial No. 576,768. Published Aug. 29, 1950. Class 38.

534,283. ASPHALTIC MASTIC COATING FOR USE ON THE UNDERBODIES OF TRUCKS, AUTOMOBILES AND BUSES. WITCO CHEMICAL COMPANY, Chicago, Ill.
Filed Apr. 8, 1949, Serial No. 576,830. Published Aug. 8, 1950. Class 16.

534,284. LEATHER GOODS—NAMELY, FITTED AND UNFITTED TRAVELING CASES, PURSES, TOILET CASES, BILLFOLDS, TIE CASES, KEY CASES, AND PORTFOLIOS. TED M. SEGAL, doing business as Progressive Leather Goods Company, West New York, N. J., assignor to Progressive Leather Goods Corp., New York, N. Y., a corporation of New York.
Filed Apr. 9, 1949, Serial No. 576,887. Published Aug. 15, 1950. Class 3.

534,285. LIVESTOCK AND POULTRY FEEDS CONSISTING ESSENTIALLY OF OATS WITH PROTEINS, VITAMINS, AND MINERALS ADDED THERETO. FRED E. RIDDLE, doing business as Sioux City Dehydrating and Processing Company, Sioux City, Iowa.
Filed Apr. 8, 1949, Serial No. 577,018. Published July 18, 1950. Class 46.

534,286. WOOLEN YARN. BOTANY MILLS, INC., Passaic, N. J.
Filed Apr. 14, 1949, Serial No. 577,094. Published Aug. 15, 1950. Class 43.

534,287. SANDWICHES CONSISTING OF ICE CREAM FACED WITH A BAKERY PRODUCT. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed Apr. 14, 1949, Serial No. 577,114. Published July 18, 1950. Class 46.

534,288. WOMEN'S APPAREL COMPRISING SLIPS, BLOOMERS, PETTICOATS, NIGHTGOWNS, PAJAMAS, CHEMISES, STEP-INS, AND PANTIES. SEAMPRUFE, INCORPORATED, New York, N. Y.
Filed Apr. 14, 1949, Serial No. 577,144. Published Sept. 5, 1950. Class 39.

534,289. TWINE HAVING A FIBER CORE WITH A PAPER COVERING. COLUMBIAN ROPE COMPANY, Auburn, N. Y.
Filed Apr. 20, 1949, Serial No. 577,425. Published Aug. 15, 1950. Class 7.

534,290. CARTRIDGES CONTAINING COMPRESSED OXYGEN. OCCO PRODUCTS, Minneapolis, Minn., assignor to Occo Products Company, Minneapolis, Minn., a corporation of Minnesota.
Filed Apr. 21, 1949, Serial No. 577,492. Published Sept. 12, 1950. Class 6.

534,291. COMIC STRIP. PUBLISHERS SYNDICATE, Chicago, Ill.
Filed Apr. 26, 1949, Serial No. 577,732. Published Sept. 5, 1950. Class 38.

534,292. TEXTILE FABRICS MADE OF SYNTHETIC FIBERS, ALONE AND IN ADMIXTURE WITH COTTON, WOOL, OR SILK. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed Apr. 28, 1949, Serial No. 577,864. Published Aug. 22, 1950. Class 42.

534,293. LIQUID COMPOSITION OF A MEDICINAL NATURE FOR INTRODUCTION IN THE EAR CHANNELS. BERLE PRODUCTS, Minneapolis, Minn., assignor to Berle Products, Inc., a corporation of Minnesota.
Filed May 4, 1949, Serial No. 578,189. Published Sept. 5, 1950. Class 18.

534,294. THREAD AND TWINE OF SILK, NYLON AND OTHER SYNTHETIC FIBERS FOR SEWING. THE HEMINWAY & BARTLETT MFG. CO., Watertown, Conn.
Filed May 7, 1949, Serial No. 578,392. Published Aug. 15, 1950. Class 43.

534,295. PREPARATION HAVING AN ACTION ON THE CIRCULATION OF THE BLOOD. CIBA PHARMACEUTICAL PRODUCTS, INC., Summit, N. J.
Filed May 13, 1949, Serial No. 578,767. Published Aug. 22, 1950. Class 18.

534,296. PAPER EMERGENCY UMBRELLAS. WONDABRELLA INC., Brooklyn, N. Y.
Filed May 13, 1949, Serial No. 578,843. Published Sept. 5, 1950. Class 41.

534,297. HOSIERY. CHESTER H. ROTH CO., INC., New York, N. Y.
Filed May 14, 1949, Serial No. 578,900. Published Sept. 5, 1950. Class 39.

534,298. LOCAL ANAESTHETIC FOR EAR TROUBLES. CLARENCE E. ELGIN, doing business as Pediatric Products Co., Anderson, S. C.
Filed May 20, 1949, Serial No. 579,182. Published Aug. 22, 1950. Class 18.

534,299. LOCAL ANAESTHETIC FOR THE DISCOMFORT OF TEETHING AND GUM IRRITATION. CLARENCE E. ELGIN, doing business as Pediatric Products Co., Anderson, S. C.
Filed May 20, 1949, Serial No. 579,183. Published Aug. 22, 1950. Class 18.

534,300. WRITING PAPERS, TABLETS, NOTEBOOKS, LOOSE LEAF INDEXES, LOOSE LEAF INSERT PAGES, TYPEWRITING PAPERS, BLOTTERS, AND ENVELOPES. PRUDENTIAL PAPER PRODUCTS CO., INC., New York, N. Y.
Filed May 20, 1949, Serial No. 579,211. Published Aug. 15, 1950. Class 37.

534,301. POCKETBOOKS, HAND BAGS, BILLFOLDS, WALLETS, SUIT CASES, TRAVELING BAGS, PORTFOLIOS. ARKWRIGHT MERCHANDISING CORPORATION, New York, N. Y., assignor to Arkwright Incorporated, New York, N. Y., a corporation of New York.
Filed May 25, 1949, Serial No. 579,473. Published Aug. 15, 1950. Class 3.

534,302. BAG SEWING TWINE. BEMIS BRO. BAG COMPANY, St. Louis, Mo.
Filed May 28, 1949, Serial No. 579,654. Published Mar. 21, 1950. Class 7.

534,303. PUMP VALVES, PISTONS, LINERS, AND RODS. ALFRED E. EVANS COMPANY, Long Beach, Calif.
Filed May 31, 1949, Serial No. 579,743. Published Sept. 12, 1950. Class 23.

534,304. KNITTING SETS CONSISTING OF A BEGINNER'S KIT COMPLETE WITH COLORFUL WOOL YARN, KNITTING NEEDLES, AND AN INSTRUCTION BOOK. JOE LOWE CORPORATION, New York, N. Y.
Filed June 7, 1949, Serial No. 580,080. Published Sept. 12, 1950. Class 40.

534,305. YARNS AND THREADS WHOLLY OR MAINLY OF LINEN. HENRY CAMPBELL & CO. LIMITED, Belfast, Northern Ireland.
Filed June 10, 1949, Serial No. 580,222. Published Aug. 29, 1950. Class 43.

534,306. LEG PAINT FOR THE RELIEF OF BOWED TENDONS, RING BONES, LEG AND MUSCLE SORENESS, IN THE NATURE OF A LINIMENT. WILLIAM F. LUTZ, doing business as William F. Lutz Enterprises, Miami, Fla.
Filed June 16, 1949, Serial No. 580,606. Published Aug. 22, 1950. Class 18.

534,307. LADIES' AND MISSES' SPORTSWEAR—NAMELY, BEACH COATS, JACKETS, HALTERS, SHORTS, SKIRTS, SLACKS, PLAYSUITS, SUNSUITS, DRESSES, KNITTED T SHIRTS AND BLOUSES AND MEN'S POLO SHIRTS. LIVINGSTON & LIVINGSTON, New York, N. Y.
Filed June 17, 1949, Serial No. 580,667. Published Aug. 15, 1950. Class 39.

534,308. MEDICINAL PREPARATION—NAMELY, A SEDATIVE. DAHL PHARMACAL COMPANY, Minneapolis, Minn.
Filed June 20, 1949, Serial No. 580,773. Published Aug. 22, 1950. Class 18.

534,309. CURTAIN RODS, AND CURTAIN RODDING, AND SEAM AND EDGE BINDINGS. YOUNGSTOWN MANUFACTURING, INCORPORATED, Youngstown, Ohio.
Filed June 20, 1949, Serial No. 580,811. Published Aug. 29, 1950. Class 13.

534,310. ALFALFA SEEDS. ETABLISSEMENTS TOURNEUR FRERES (SOCIETE ANONYME), Coulommiers (Seine-et-Marne), France.
Filed June 23, 1949, Serial No. 580,931. Published Aug. 8, 1950. Class 1.

534,311. EXTERNAL MEDICINAL LOTION. LLOYD G. K. CARR, Staunton, Va.
Filed June 29, 1949, Serial No. 581,248. Published Aug. 22, 1950. Class 18.

534,312. CHEMICALS FOR EXTERMINATING WEEDS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed June 30, 1949, Serial No. 581,383. Published Sept. 5, 1950. Class 6.

534,313. OUTBOARD MOTORS. GAMBLE-SKOGMO, INC., Minneapolis, Minn.
Filed July 1, 1949, Serial No. 581,415. Published Aug. 29, 1950. Class 23.

534,314. GOLD CHLORIDE, IRON SULFATE, MAGNESIUM SULFATE, ETC. E. S. MILLER LABORATORIES, INC., Los Angeles, Calif.
Filed July 5, 1949, Serial No. 581,535. Published Aug. 29, 1950. Class 6.

534,315. ANTIBIOTIC PREPARATIONS, OF REPOSITORY FORM, LIBERATING THERAPEUTIC CONCENTRATIONS OVER PROLONGED PERIODS. MERCK & CO., INC., Rahway, N. J.
Filed July 7, 1949, Serial No. 581,603. Published Sept. 5, 1950. Class 18.

534,316. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 7, 1949, Serial No. 581,614. Published Sept. 5, 1950. Class 28.

534,317. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, LADLES, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 7, 1949, Serial No. 581,616. Published Sept. 5, 1950. Class 28.

534,318. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 7, 1949, Serial No. 581,617. Published Sept. 5, 1950. Class 28.

534,319. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, LADLES, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 7, 1949, Serial No. 581,618. Published Sept. 5, 1950. Class 28.

534,320. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, LADLES, CLASP PINS SIMULATING SPOONS FOR WEAR ON WOMEN'S GARMENTS, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 7, 1949, Serial No. 581,620. Published Sept. 5, 1950. Class 28.

534,321. SCARFS. ALLWAY SCARF CORP., New York, N. Y., assignor to Leon L. Wilson and Frederic C. Cooley, Jr., trading as Frederic C. Cooley, Jr., Associates, New York, N. Y., a co-partnership.
Filed July 9, 1949, Serial No. 581,697. Published Aug. 15, 1950. Class 39.

534,322. SYMPATHICOLYTIC PREPARATION FOR THE PURPOSE OF INHIBITING THE TRANSMISSION OF NERVE IMPULSE IN AUTONOMIC GANGLIA. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed July 11, 1949, Serial No. 581,777. Published Sept. 5, 1950. Class 18.

534,323. LADIES' AND MISSES' DRESSES, BLOUSES, JACKETS, SCARFS, HATS, AND VESTEES. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed July 13, 1949, Serial No. 581,850. Published Sept. 5, 1950. Class 39.

534,324. KNIVES, FORKS, SPOONS, FOOD PUSHERS, TONGS, LADLES, ETC. ROGERS, LUNT & BOWLEN COMPANY, doing business as Lunt Silversmiths, Greenfield, Mass.
Filed July 14, 1949, Serial No. 581,988. Published Sept. 5, 1950. Class 28.

534,325. LINOLEUM AND RESILIENT PLASTIC COMPOSITION FLOOR TILE. W. & J. SLOANE, New York, N. Y.
Filed July 15, 1949, Serial No. 582,066. Published Aug. 29, 1950. Class 20.

534,326. MEDICINAL PREPARATION OF CYCLOPENTAMINE HYDROCHLORIDE USED AS A VASOCONSTRICTOR IN THE TREATMENT OF NASAL CONGESTION. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed July 16, 1949, Serial No. 582,088. Published Aug. 29, 1950. Class 18.

534,327. LADIES' HANDBAGS. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed July 19, 1949, Serial No. 582,155. Published Aug. 22, 1950. Class 3.

534,328. THREAD AND TWINE OF NYLON AND OTHER SYNTHETIC FIBERS FOR SEWING, DARNING, AND MENDING. THE HEMINWAY & BARTLETT MFG. CO., Watertown, Conn.
Filed July 20, 1949, Serial No. 582,225. Published Aug. 15, 1950. Class 43.

534,329. HAND LUGGAGE CASES EQUIPPED WITH GARMENT CARRYING FIXTURES, SUITCASES, WARDROBE SUITCASES, AND OVERNITE CASES. HARTMANN COMPANY, Racine, Wis.
Filed July 21, 1949, Serial No. 582,304. Published Aug. 15, 1950. Class 3.

534,330. HAND LUGGAGE CASES EQUIPPED WITH GARMENT CARRYING FIXTURES, SUITCASES, WARDROBE SUITCASES, AND OVERNITE CASES. HARTMANN COMPANY, Racine, Wis.
Filed July 21, 1949, Serial No. 582,305. Published Aug. 15, 1950. Class 3.

534,331. POWDERED PREPARATION FOR TREATMENT OF BACTERIA IN SEPTIC TANKS AND CESSPOOLS TO MAINTAIN EFFECTIVE BACTERIAL ACTIVITY. MAX H. WEST, doing business as Max H. West Company, Fayetteville, Pa.
Filed July 21, 1949, Serial No. 582,333. Published Sept. 5, 1950. Class 6.

534,332. STRETCHABLE FABRIC BANDS WHICH CAN BE WORN AS A HAIR BAND, A NECKLACE, OR AS A BRACELET. BENNIE L. HARMON, doing business as Har-Mac Company, New York, N. Y.
Filed July 22, 1949, Serial No. 582,352. Published Aug. 29, 1950. Class 40.

534,333. FLEXIBLE HARD SURFACE, WALL, FLOOR, AND TABLE TOP COVERING MATERIALS. PAULSBORO MANUFACTURING COMPANY, Jersey City, N. J., and Philadelphia, Pa.
Filed July 23, 1949, Serial No. 582,444. Published Aug. 29, 1950. Class 20.

534,334. FLEXIBLE HARD SURFACE, WALL, FLOOR, AND TABLE TOP COVERING MATERIALS. PAULSBORO MANUFACTURING COMPANY, Jersey City, N. J., and Philadelphia, Pa.
Filed July 23, 1949, Serial No. 582,445. Published Aug. 29, 1950. Class 20.

534,335. UMBRELLAS. HUNTER DOUGLAS CORPORATION, New York, N. Y.
Filed July 28, 1949, Serial No. 582,604. Published Aug. 15, 1950. Class 41.

534,336. LADIES' AND MEN'S PLAY SHORTS. BRET MORRISON, New York, N. Y.
Filed July 28, 1949, Serial No. 582,641. Published Aug. 15, 1950. Class 39.

534,337. BELT BUCKLES MADE OF PLASTIC MATERIAL. PYRO PLASTICS CORPORATION, Union, N. J.
Filed July 28, 1949, Serial No. 582,647. Published Sept. 5, 1950. Class 40.

534,338. PERFUMES AND DEODORANTS. Y & Y DEODORIZER CO., Philadelphia, Pa.
Filed July 29, 1949, Serial No. 582,716. Published Aug. 1, 1950. Class 51.

534,339. MEDICAL LEAFLETS FOR DEALING WITH DIAGNOSIS AND TREATMENT OF DISEASE PUBLISHED AT IRREGULAR INTERVALS. AMES COMPANY, INC., Elkhart, Ind.
Filed Aug. 1, 1949, Serial No. 582,763. Published Aug. 15, 1950. Class 38.

534,340. COVERS OF CANVAS, PLASTIC AND SPORT TOPPING FOR SHOE CASES AND HAT CASES. SIRAC, INC., Brooklyn, N. Y.
Filed Aug. 2, 1949, Serial No. 582,863. Published Aug. 15, 1950. Class 3.

534,341. VENETIAN BLIND TAPE. HUNTER DOUGLAS CORPORATION, New York, N. Y.
Filed Aug. 3, 1949, Serial No. 582,900. Published Aug. 15, 1950. Class 40.

534,342. ASCORBIC ACID LOZENGES. FRANK L. IUNGERICH, St. Louis, Mo.
Filed Aug. 3, 1949, Serial No. 582,917. Published Aug. 8, 1950. Class 18.

534,343. PERIODICAL PUBLISHED FROM TIME TO TIME. PATROLMEN'S BENEVOLENT ASSOCIATION OF THE CITY OF NEW YORK, New York, N. Y.
Filed Aug. 3, 1949, Serial No. 582,922. Published Aug. 15, 1950. Class 38.

534,344. PREPARATION FOR KILLING RATS AND MICE. DR. SALSBURY'S LABORATORIES, Charles City, Iowa.
Filed Aug. 4, 1949, Serial No. 583,001. Published Aug. 29, 1950. Class 6.

534,345. WORSTED YARN FOR HAND KNITTING. CARON SPINNING COMPANY, Rochelle, Ill.
Filed Aug. 6, 1949, Serial No. 583,077. Published Aug. 15, 1950. Class 43.

534,346. HARNESS FOR INFANTS. LIFE MANUFACTURING COMPANY, INC., East Boston, Mass.
Filed Aug. 6, 1949, Serial No. 583,102. Published Aug. 15, 1950. Class 40.

534,347. ANTIBACTERIAL PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Aug. 6, 1949, Serial No. 583,125. Published Aug. 8, 1950. Class 18.

534,348. PREPARATION FOR THE TREATMENT OF ASTHMA, HAY FEVER, WHEEZING, AND SIMILAR MALADIES OF THE RESPIRATORY TRACT. OSCAR P. SMITH, Lincolnton, N. C.
Filed Aug. 15, 1949, Serial No. 583,496. Published Aug. 8, 1950. Class 18.

534,349. LINOLEUM AND FELT BASE TYPE FLEXIBLE COVERINGS FOR SUCH SURFACES AS FLOORS, WALLS, AND THE LIKE. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed Aug. 16, 1949, Serial No. 583,522. Published Aug. 29, 1950. Class 20.

534,350. BULLETINS, NOTICES, AND OTHER PUBLICATIONS ISSUED AT INTERVALS, ETC. PUBLIC SERVICE INTERSTATE TRANSPORTATION COMPANY, Newark, N. J.
Filed Aug. 16, 1949, Serial No. 583,548. Published Aug. 15, 1950. Class 38.

534,351. PLANT TIES. RESIN INDUSTRIES, Santa Barbara, Calif.
Filed Aug. 18, 1949, Serial No. 583,662. Published Aug. 15, 1950. Class 7.

534,352. SERIES OF ARTICLES, DISCUSSING SERVICE STATIONS FOR AUTOMOTIVE VEHICLES, APPEARING IN A PERIODICAL PUBLICATION. CARL A. PETERSEN, Chicago, Ill.
Filed Aug. 19, 1949, Serial No. 583,708. Published Sept. 5, 1950. Class 38.

534,353. LOCAL ANESTHETIC MATERIAL MADE IN THE FORM OF A SOLUTION. ATLANTIC MANUFACTURING CORPORATION, Brooklyn, N. Y.
Filed Aug. 20, 1949, Serial No. 583,729. Published Sept. 5, 1950. Class 18.

534,354. SCALP OIL AND CREAM. HUNT SISTERS, Chicago, Ill.
Filed Aug. 20, 1949, Serial No. 583,758. Published Aug. 8, 1950. Class 51.

534,355. PREPARATION FOR THE RELIEF OF COMMON COLDS, SIMPLE HEADACHE, MINOR NEURALGIA, AND DISCOMFORTS DUE TO COLDS. J. C. GALLAGHER, doing business under the name of Eutelos Manufacturing Co., Philadelphia, Pa.
Filed June 27, 1949, Serial No. 583,635. Published Aug. 22, 1950. Class 18.

534,356. WOOL YARN. SPINNERIN YARN CO., INC., South Hackensack, N. J., and New York, N. Y.
Filed Aug. 23, 1949, Serial No. 583,893. Published Aug. 15, 1950. Class 43.

534,357. LIPSTICK, NAIL POLISH, ROUGE, AND FACE POWDER. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed Aug. 24, 1949, Serial No. 583,905. Published Aug. 8, 1950. Class 51.

534,358. VENETIAN BLIND TAPE. HUNTER DOUGLAS CORPORATION, New York, N. Y.
Filed Aug. 24, 1949, Serial No. 583,919. Published Aug. 15, 1950. Class 40.

534,359. DOG BOOTS, CHAUFFEURS' WALLETS, DOG BLANKETS, DOG COLLARS, DOG COUPLERS, DOG HARNESS, DOG LEADS, DOG MUZZLES, AND BAGGAGE IDENTIFICATION TAG HOLDERS. BRAUER BROS. MFG. CO., St. Louis, Mo.
Filed Aug. 25, 1949, Serial No. 583,984. Published Sept. 5, 1950. Class 3.

534,360. DISPOSABLE READY-TO-USE UNIT CONSISTING OF A LENGTH OF FLEXIBLE TUBING WITH ATTACHED NEEDLE ADAPTERS AND PINCH CLAMP INTENDED FOR USE IN THE PARENTERAL ADMINISTRATION OF FLUIDS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed Aug. 26, 1949, Serial No. 584,046. Published Aug. 29, 1950. Class 44.

534,361. MAGAZINE ISSUED PERIODICALLY. PRECISION SCIENTIFIC COMPANY, Chicago, Ill.
Filed Aug. 26, 1949, Serial No. 584,076. Published Aug. 15, 1950. Class 38.

534,362. LADIES', MISSES', AND JUNIOR MISSES' SPORTSWEAR, AND CLOTHING—NAMELY, JACKETS, SKIRTS, BLOUSES, DRESSES, ETC. PARKLAND SPORTSWEAR CO., INC., Dallas, Tex.
Filed Aug. 27, 1948, Serial No. 584,150. Published Sept. 5, 1950. Class 39.

534,363. RAIN UMBRELLAS AND UMBRELLA FRAMES. THE FINKEL UMBRELLA FRAME COMPANY, INC., New York, N. Y.
Filed Aug. 31, 1949, Serial No. 584,276. Published Aug. 15, 1950. Class 41.

534,364. LEATHER. ALBERT TROSTEL & SONS COMPANY, Milwaukee, Wis.
Filed Aug. 31, 1949, Serial No. 584,299. Published Aug. 29, 1950. Class 1.

534,365. UMBRELLAS, PARASOLS, AND PARTS THEREFOR. COLUMBIA UMBRELLA CO., INC., Lancaster, Pa.
Filed Sept. 1, 1949, Serial No. 584,318. Published Aug. 15, 1950. Class 41.

534,366. SOLUTION OF POTASSIO-ARGENTIC IODIDE, ETC. THE ULEN CHEMICAL COMPANY, Toledo, Ohio.
Filed Sept. 1, 1949, Serial No. 584,365. Published Sept. 5, 1950. Class 18.

534,367. ESTROGENIC HORMONE PREPARATION. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed Sept. 3, 1949, Serial No. 584,471. Published Sept. 5, 1950. Class 18.

534,368. LIPSTICK, NAIL POLISH, ROUGE, ETC. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed Sept. 7, 1949, Serial No. 584,521. Published Aug. 15, 1950. Class 51.

534,369. MEN'S DRESS AND NEGLIGEE SHIRTS. NATIONAL SHIRT SHOPS OF DELAWARE, INC., New York, N. Y.
Filed Sept. 7, 1949, Serial No. 584,541. Published Aug. 15, 1950. Class 39.

534,370. MEN'S DRESS AND NEGLIGEE SHIRTS, UNDERWEAR, AND PAJAMAS. NATIONAL SHIRT SHOPS OF DELAWARE, INC., New York, N. Y.
Filed Sept. 7, 1949, Serial No. 584,542. Published Aug. 15, 1950. Class 39.

534,371. ANALGESIC PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed Sept. 7, 1949, Serial No. 584,554. Published Aug. 22, 1950. Class 18.

534,372. ASPIRIN AND NIACIN COMPOUND HAVING ANALGESIC PROPERTIES. OXFORD LABORATORIES, INCORPORATED, Dayton, Va.
Filed Sept. 8, 1949, Serial No. 584,591. Published Aug. 15, 1950. Class 18.

534,373. INDUSTRIAL SAFETY CLOTHING—NAMELY, HAND AND ARM PROTECTORS, LEGGINGS, APRONS AND FOOT PROTECTORS MADE OF LEATHER OR FABRIC AND SEWN OR REINFORCED WITH METAL. INDUSTRIAL GLOVES COMPANY, Danville, Ill.
Filed Sept. 10, 1949, Serial No. 584,671. Published Aug. 22, 1950. Class 39.

534,374. STRAW HATS FOR MEN. HAT CORPORATION OF AMERICA, Norwalk, Conn.
Filed Sept. 13, 1949, Serial No. 584,766. Published Aug. 29, 1950. Class 39.

534,375. MEDICINAL ANTISEPTIC PREPARATION FOR THE RELIEF OF SUNBURN. PEAU D'OR SALES CORPORATION, Miami, Fla.
Filed Sept. 13, 1949, Serial No. 584,773. Published Sept. 5, 1950. Class 18.

534,376. PREPARATION OF IRON FOR INTRAVENOUS INJECTION. AKTIEBOLAGET ASTRA, APOTEKARNES KEMISKA FABRIKER, Södertälje, Sweden.
Filed Sept. 14, 1949, Serial No. 584,787. Published Aug. 8, 1950. Class 18.

534,377. PLANTING SEEDS. LOCKETT SEED COMPANY, Vernon, Tex.
Filed Sept. 14, 1949, Serial No. 584,821. Published Aug. 29, 1950. Class 1.

534,378. SPORTSWEAR FOR MEN, WOMEN, AND CHILDREN—NAMELY, T-SHIRTS AND SWEATERS. JACO KNITWEAR INC., Griffin, Ga.
Filed Sept. 15, 1949, Serial No. 584,864. Published Aug. 29, 1950. Class 39.

534,379. PREPARATION FOR THE TREATMENT OF OBESITY. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed Sept. 15, 1949, Serial No. 584,877. Published Sept. 5, 1950. Class 18.

534,380. COSMETIC CASES, MADE OF LEATHER, FABRIC, PLASTICS AND COMBINATIONS THEREOF, SOLD EMPTY IN TRADE. ELIZABETH ARDEN SALES CORPORATION, New York, N. Y.
Filed Sept. 16, 1949, Serial No. 584,886. Published Aug. 15, 1950. Class 3.

534,381. MEN'S AND BOYS' WEARING APPAREL—NAMELY, SPORT JACKETS. DAVID D. DONIGER & Co. INC., New York, N. Y.
Filed Sept. 16, 1949, Serial No. 584,897. Published Aug. 22, 1950. Class 39.

534,382. ANNUAL PUBLICATION. STEEL PUBLICATIONS, Pittsburgh, Pa.
Filed Sept. 16, 1949, Serial No. 584,930. Published Aug. 15, 1950. Class 38.

534,383. MEDICINE FOR THE TREATMENT OF ANEMIA. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed Sept. 17, 1949, Serial No. 584,996. Published Sept. 5, 1950. Class 18.

534,384. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, GALOSHES, DRESS RUBBERS, STORM RUBBERS, AND OVERSHOES MADE OF RUBBER. THE ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y.
Filed Sept. 19, 1949, Serial No. 585,007. Published Aug. 22, 1950. Class 39.

534,385. PHARMACEUTICAL PREPARATIONS BASED ON BENZENE HEXACHLORIDE FOR THE TREATMENT OF PEDICULOSIS CAPITIS. IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, London, England.
Filed Sept. 19, 1949, Serial No. 585,025. Published Aug. 15, 1950. Class 18.

534,386. LETTER OPENERS AND PAPER WEIGHTS. S. & G. GUMP COMPANY, San Francisco, Calif., assignor to Gump's, Inc., a corporation of California.
Filed Sept. 20, 1949, Serial No. 585,080. Published Aug. 15, 1950. Class 37.

534,387. MEN'S SLACKS. BEICHMAN & VOGEL, Baltimore, Md.
Filed Sept. 21, 1949, Serial No. 585,100. Published Aug. 29, 1950. Class 39.

534,388. SPONGES. HENRY VON KOHORN, New York, N. Y.
Filed Sept. 21, 1949, Serial No. 585,149. Published Aug. 29, 1950. Class 1.

534,389. STAPLES USED FOR FASTENING PAPERS, CARDBOARD, FABRICS AND LIGHT GAGE METAL TOGETHER, ALSO FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND LIGHT GAGE METAL ON TO WOOD. MARKWELL MANUFACTURING COMPANY, INC., New York, N. Y.
Filed Sept. 22, 1949, Serial No. 585,175. Published Sept. 5, 1950. Class 13.

534,390. WEEKLY PERIODICAL. WASHINGTON PUBLICATIONS, INC., New York, N. Y.
Filed Sept. 22, 1949, Serial No. 585,199. Published Aug. 15, 1950. Class 38.

534,391. PAPER SIZE. STEIN, HALL & COMPANY, INC., New York, N. Y.
Filed Sept. 23, 1949, Serial No. 585,252. Published Aug. 29, 1950. Class 5.

534,392. KERCHIEFS AND HANDKERCHIEFS. KERCHIEF, INC., New York, N. Y.
Filed Sept. 24, 1949, Serial No. 585,287. Published Aug. 29, 1950. Class 39.

534,393. FRESH PEARS. MYRON ROOT AND COMPANY, INC., Medford, Oreg.
Filed Sept. 26, 1949, Serial No. 585,343. Published July 18, 1950. Class 46.

534,394. EMOLLIENT LOTION FOR THE SKIN AND FOR BODY MASSAGE. ROCK E. D'ONOFRIO, doing business as Donfield Co., Syracuse, N. Y.
Filed Sept. 27, 1949, Serial No. 585,360. Published Sept. 5, 1950. Class 18.

534,395. DENTIFRICE. THE STEVENS-WILEY MANUFACTURING CO., INC., Philadelphia, Pa.
Filed Sept. 27, 1949, Serial No. 585,400. Published Aug. 8, 1950. Class 51.

534,396. LADIES' HOSIERY. HANES HOSIERY MILLS COMPANY, Winston-Salem, N. C., and New York, N. Y.
Filed Sept. 27, 1949, Serial No. 585,378. Published Sept. 5, 1950. Class 39.

534,397. ELECTRIC HAND MANIPULATED SURFACE TREATING AND FINISHING MACHINES AND TOOLS—NAMELY, MACHINES AND PARTS THEREFOR FOR PRODUCING AND MAINTAINING A FINISH ON FLOORS OF ALL KINDS INCLUDING WOOD, ETC. THE AMERICAN FLOOR SURFACING MACHINE COMPANY, Toledo, Ohio.
Filed Sept. 28, 1949, Serial No. 585,414. Published Aug. 22, 1950. Class 21.

534,398. HOSIERY. MORRIS A. HODES, doing business as M. A. Hodes, Chattanooga, Tenn.
Filed Sept. 28, 1949, Serial No. 585,446. Published Sept. 5, 1950. Class 39.

534,399. MALE SEX HORMONE PREPARATION. WINTHROP-STEARNS INC., New York, N. Y.
Filed Sept. 28, 1949, Serial No. 585,469. Published Aug. 29, 1950. Class 18.

534,400. LEATHER. MILO TANNING CORPORATION, South Paris, Maine.
Filed Sept. 30, 1949, Serial No. 585,597. Published Aug. 29, 1950. Class 1.

534,401. CHILDREN'S OVERALLS AND PLAYSUITS. MOORE GROCERY CO., doing business as The Sledge Manufacturing Co., Tyler, Tex.
Filed Oct. 1, 1949, Serial No. 585,658. Published Aug. 29, 1950. Class 39.

534,402. MEN'S WORK SHIRTS, JACKETS, TROUSERS, AND OVERALLS. MOORE GROCERY CO., doing business as The Sledge Manufacturing Co., Tyler, Tex.
Filed Oct. 1, 1949, Serial No. 585,659. Published Aug. 29, 1950. Class 39.

534,403. ESTROGENIC HORMONE PREPARATION IN INJECTABLE DOSAGE FORM. WYETH INCORPORATED, Philadelphia, Pa.
Filed Oct. 1, 1949, Serial No. 585,693. Published Sept. 5, 1950. Class 18.

534,404. BUTTONS MADE IN WHOLE OR IN PART OF PLASTIC COMPOSITIONS. ROCHESTER BUTTON COMPANY, Rochester, N. Y.
Filed Oct. 5, 1949, Serial No. 585,813. Published Aug. 29, 1950. Class 40.

534,405. OUTERGARMENTS MADE OF COTTON, SILK, WOOL AND RAYON FOR WOMEN AND CHILDREN—NAMELY, VESTS. LINNEX CORP., New York, N. Y.
Filed Sept. 16, 1949, Serial No. 585,890. Published Aug. 29, 1950. Class 39.

534,406. ANALGESIC BALM. CLARENCE R. LARSON, doing business as Larson Laboratories, Erie, Pa.
Filed Oct. 7, 1949, Serial No. 585,944. Published Aug. 29, 1950. Class 18.

534,407. MAGAZINES, MAGAZINE SUPPLEMENTS AND SECTIONS AND STATISTICAL TABLES CONTAINING BUSINESS INFORMATION AND STATISTICS. DUN & BRADSTREET, INC., New York, N. Y.
Filed Oct. 11, 1949, Serial No. 586,082. Published Sept. 5, 1950. Class 38.

534,408. DRINKING STRAWS. MILKO CONE & BAKING CO., INC., Chicago, Ill.
Filed Oct. 11, 1949, Serial No. 586,102. Published Aug. 15, 1950. Class 50.

534,409. PENICILLIN TROCHES. WYETH INCORPORATED, Philadelphia, Pa.
Filed Oct. 11, 1949, Serial No. 586,122. Published Sept. 19, 1950. Class 18.

534,410. LADDER TAPES FOR VENETIAN BLINDS. INTERNATIONAL BRAID CORP., Fall River, Mass.
Filed Oct. 15, 1949, Serial No. 586,354. Published Sept. 12, 1950. Class 40.

534,411. BUTTONS MADE IN WHOLE OR IN PART OF PLASTIC COMPOSITIONS. ROCHESTER BUTTON COMPANY, Rochester, N. Y.
Filed Oct. 17, 1949, Serial No. 586,432. Published Sept. 12, 1950. Class 40.

534,412. LADLES. SUPERIOR METAL PRODUCTS COMPANY, New York, N. Y., and St. Paul, Minn.
Filed Oct. 21, 1949, Serial No. 586,662. Published Aug. 22, 1950. Class 23.

534,413. FOUNDATION GARMENTS, CORSETS, GIRDLES, BRASSIÈRES, AND UNDERWEAR FOR WOMEN. YOUTHCRAFT CREATIONS, INC., New York, N. Y.
Filed Oct. 22, 1949, Serial No. 586,715. Published Sept. 5, 1950. Class 39.

534,414. ANTI-ACID, EMOLLIENT, LUBRICATING, AND MILDLY LAXATIVE PHARMACEUTICAL PREPARATION. THE "NOFAST" MFG. & DISTR. COMPANY, Denver, Colo.
Filed Oct. 24, 1949, Serial No. 586,762. Published Aug. 29, 1950. Class 18.

534,415. GREETING CARDS. AMERICAN GREETING PUBLISHERS, INC., Cleveland, Ohio.
Filed Oct. 27, 1949, Serial No. 586,903. Published Sept. 5, 1950. Class 38.

534,416. ELECTRIC METER-TESTING SWITCHES AND ENCLOSURES FOR METER-TESTING SWITCHES. THE SUPERIOR SWITCHBOARD & DEVICES COMPANY, Canton, Ohio.
Filed Oct. 27, 1949, Serial No. 586,943. Published Aug. 29, 1950. Class 21.

534,417. CHEMICAL PRODUCT FOR DENATURING ALCOHOL. KAY-FRIES CHEMICALS, INC., West Haverstraw, N. Y.
Filed Aug. 27, 1949, Serial No. 586,999. Published Sept. 12, 1950. Class 6.

534,418. KNITTED MITTEN FOR THE PROTECTION OF HOSE WHILE HANDLING THEM. ELIZABETH E. GANNON, Seattle, Wash.
Filed Oct. 29, 1949, Serial No. 587,019. Published Sept. 5, 1950. Class 39.

534,419. LOZENGES FOR THE TREATMENT OF COUGHS, COLDS, AND SORE THROATS. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed Nov. 1, 1949, Serial No. 587,120. Published Aug. 29, 1950. Class 18.

534,420. MAGNETIC SEPARATORS FOR SEPARATING MAGNETIC FROM NON-MAGNETIC MATERIALS. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio.
Filed Aug. 25, 1949, Serial No. 587,141. Published Aug. 22, 1950. Class 21.

534,421. PATTERN PUBLICATIONS ISSUED SERIALLY. THE CLARK THREAD COMPANY, Wilmington, Del., and Clarkdale, Ga., now by change of name The Clark Thread Company, Inc.
Filed Nov. 3, 1949, Serial No. 587,248. Published Sept. 5, 1950. Class 38.

534,422. ANTIHISTAMINE PREPARATION FOR THE RELIEF OF COLDS AND HAY FEVER. BRISTOL-MYERS COMPANY, New York, N. Y.
Filed Nov. 5, 1949, Serial No. 587,378. Published Aug. 29, 1950. Class 18.

534,423. FRAMED LUMINESCENT PICTURES. NINA E. PARRISH, Kalamazoo, Mich.
Filed Nov. 8, 1949, Serial No. 587,499. Published Sept. 5, 1950. Class 38.

534,424. HAT BRAIDS. HENRY POLLAK, INC., New York, N. Y.
Filed Nov. 8, 1949, Serial No. 587,505. Published Aug. 15, 1950. Class 40.

534,425. PERIODICAL PUBLICATION. THE S. H. SMITH CO., Indianapolis, Ind.
Filed Nov. 9, 1949, Serial No. 587,567. Published Sept. 5, 1950. Class 38.

534,426. TWINE. JOHN F. REGAN, doing business under the trade name and style of The John F. Regan Co., New York, N. Y.
Filed Nov. 14, 1949, Serial No. 587,752. Published Sept. 12, 1950. Class 7.

534,427. CLOTHESLINES. JOHN F. REGAN, doing business under the trade name and style of The John F. Regan Co., New York, N. Y.
Filed Nov. 14, 1949, Serial No. 587,753. Published Aug. 15, 1950. Class 7.

534,428. GLOVES MADE OF FABRIC AND LEATHER. FAIRFIELD GLOVE CO., Fairfield, Iowa.
Filed Nov. 10, 1949, Serial No. 587,863. Published Sept. 5, 1950. Class 39.

534,429. GLOVES MADE OF FABRIC AND LEATHER. FAIRFIELD GLOVE CO., Fairfield, Iowa.
Filed Nov. 10, 1949, Serial No. 587,866. Published Sept. 5, 1950. Class 39.

534,430. LADIES' HANDBAGS. EMBASSY PLASTIC PRODUCTS, INC., New York, N. Y.
Filed Nov. 18, 1949, Serial No. 588,014. Published Aug. 15, 1950. Class 3.

534,431. MISSES' AND WOMEN'S DRESSES. JUNIOR FORMALS, INC., New York, N. Y.
Filed Nov. 19, 1949, Serial No. 588,097. Published Sept. 5, 1950. Class 39.

534,432. BUTTONS MADE IN WHOLE OR IN PART OF PLASTIC COMPOSITIONS. ROCHESTER BUTTON COMPANY, Rochester, N. Y.
Filed Nov. 30, 1949, Serial No. 588,597. Published Sept. 5, 1950. Class 40.

534,433. WEARING APPAREL—NAMELY, BRAS, OUTER SHORTS, SLACKS, PEDAL PUSHERS, SKIRTS, JACKETS, HATS, AND SUN-DRESSES. FOSTER-HOCHBERG CO., Seattle, Wash.
Filed Dec. 3, 1949, Serial No. 588,757. Published Sept. 5, 1950. Class 39.

534,434. TWINE AND CORD, ESPECIALLY TWINE AND CORD FOR FISH NETS. MT. VERNON-WOODBERRY MILLS, INC., Baltimore, Md.
Filed Dec. 5, 1949, Serial No. 588,807. Published Sept. 12, 1950. Class 7.

534,435. LITTLE GIRLS' PANTIES. PHILIP BERNSTEIN, Flushing, N. Y.
Filed Dec. 8, 1949, Serial No. 589,003. Published Sept. 5, 1950. Class 39.

534,436. HAT BRAIDS. HENRY POLLAK, INC., New York, N. Y.
Filed Dec. 10, 1949, Serial No. 589,169. Published Aug. 29, 1950. Class 40.

534,437. BRASSIÈRES MADE OF RAYON, COTTON, AND RUBBER OR COMBINATIONS OF THE SAME. FRANCINE OF FRANCE, INC., Chicago, Ill.
Filed Dec. 13, 1949, Serial No. 589,253. Published Sept. 5, 1950. Class 39.

534,438. LADIES', MISSES', AND CHILDREN'S HANDBAGS, POCKET BOOKS, AND PURSES, OF LEATHER, FABRIC, LEATHERETTE PLASTIC MATERIAL, AND COMBINATIONS THEREOF. YOUTH MODE BAGS, INC., New York, N. Y.
Filed Dec. 13, 1949, Serial No. 589,292. Published Aug. 29, 1950. Class 3.

534,439. CHILDREN'S AND MISSES' DRESSES AND FROCKS. JACOBS, GROSSMAN & ROSENBERG, INC., Philadelphia, Pa.
Filed Dec. 16, 1949, Serial No. 589,448. Published Sept. 5, 1950. Class 39.

534,440. THREAD AND YARN OF COTTON, WOOL, LINEN, RAYON, AND MIXTURES THEREOF. SOCIETE A RESPONSABILITE LIMITEE J. THIRIEZ PERE & FILS & CARTIER-BRESSON, Paris, France.
Filed Dec. 16, 1949, Serial No. 589,477. Published Sept. 5, 1950. Class 43.

534,441. HANDBAGS. CITY STORES MERCANTILE COMPANY, INC., New York, N. Y.
Filed Dec. 19, 1949, Serial No. 589,562. Published Aug. 29, 1950. Class 3.

534,442. THREAD OF NYLON, OTHER SYNTHETIC FIBERS, AND COTTON FOR SEWING, DARNING, AND MENDING. THE HEMINWAY & BARTLETT MANUFACTURING COMPANY, Watertown, Conn.
Filed Dec. 20, 1949, Serial No. 589,655. Published Sept. 12, 1950. Class 43.

534,443. CIGARETTE LIGHTERS. DOWI PRODUCTS, INC., Milwaukee, Wis.
Filed Dec. 22, 1949, Serial No. 589,776. Published Sept. 12, 1950. Class 8.

534,444. BOOTS AND SHOES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. HEALTH SPOT SHOE COMPANY, Oconomowoc, Wis.
Filed Dec. 23, 1949, Serial No. 589,852. Published July 25, 1950. Class 39.

534,445. BRASSIÈRES. ARTISTIC FOUNDATIONS, INC., New York, N. Y.
Filed Dec. 28, 1949, Serial No. 590,007. Published Sept. 5, 1950. Class 39.

534,446. CROCHET HOOKS AND KNITTING NEEDLES FOR HAND USE. C. J. BATES & SON, Chester, Conn.
Filed Dec. 29, 1949, Serial No. 590,067. Published Aug. 29, 1950. Class 40.

534,447. CIGARETTE HOLDERS. BIRO OF LONDON, INC., New York, N. Y.
Filed Dec. 30, 1949, Serial No. 590,133. Published Sept. 12, 1950. Class 8.

534,448. CIGARETTE HOLDERS. BIRO OF LONDON, INC., New York, N. Y.
Filed Dec. 30, 1949, Serial No. 590,134. Published Sept. 12, 1950. Class 8.

534,449. CURL CLIPS. THE I. LEON CO., INC., Massapequa, N. Y.
Filed Jan. 3, 1950, Serial No. 590,274. Published Aug. 29, 1950. Class 40.

534,450. SCHOOL BAGS. LIT BROTHERS, Philadelphia, Pa.
Filed Jan. 7, 1950, Serial No. 590,510. Published Aug. 29, 1950. Class 3.

534,451. TWINE, TYING THREAD, CLOTHESLINE, SASH CORD, AND ROPE. JOHN F. REGAN, doing business under the trade name and style of the John F. Regan Co., New York, N. Y.
Filed Jan. 10, 1950, Serial No. 590,619. Published Aug. 29, 1950. Class 7.

534,452. PURSES AND BILLFOLDS. BERNARD CAHN CO., INC., New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,734. Published Aug. 29, 1950. Class 3.

534,453. BRAIDS USED IN THE MANUFACTURE OF HAT BODIES. E. C. SCHERRER, INC., New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,763. Published Sept. 5, 1950. Class 40.

534,454. MILLINERY WIRE AND ARTIFICIAL FLOWER WIRE. FRASER MANUFACTURING CO., INC., New York, N. Y.
Filed Jan. 18, 1950, Serial No. 591,026. Published Aug. 29, 1950. Class 40.

534,455. FABRICS OF SILK, WOOL, COTTON, MAN-MADE FIBERS, AND COMBINATIONS THEREOF. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y.
Filed Jan. 19, 1950, Serial No. 591,111. Published Aug. 29, 1950. Class 42.

534,456. ROPE LARIATS AND LARIAT ROPE. GEORGE L. SOREGHEN, doing business as Diamond Whip Company, Chicago, Ill.
Filed Jan. 19, 1950, Serial No. 591,115. Published Aug. 29, 1950. Class 7.

534,457. TEXTILE FABRICS IN THE PIECE OF 100% FILAMENT OF RAYON AND NYLON. HEGO FABRICS, INC., New York, N. Y.
Filed Jan. 20, 1950, Serial No. 591,165. Published Aug. 29, 1950. Class 42.

534,458. BILL FOLDS, WALLETS, POCKETBOOKS, AND LADIES' HANDBAGS. THE ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y.
Filed Jan. 27, 1950, Serial No. 591,548. Published Aug. 29, 1950. Class 3.

534,459. MARINE GLUE, CANVAS CEMENT, TILE CEMENT, LINOLEUM CEMENT, AND WATERPROOF ADHESIVE USED FOR THE PATCHING OF CANVAS COVERS, SAILS, AWNINGS, AND THE LIKE. H. B. FRED KUHLS, Brooklyn, N. Y.
Filed Feb. 1, 1950, Serial No. 591,784. Published Aug. 29, 1950. Class 5.

534,460. AUTOMOBILE FUEL PUMPS. GRANT STORAGE BATTERY COMPANY, Minneapolis, Minn.
Filed Feb. 8, 1950, Serial No. 592,144. Published Aug. 29, 1950. Class 23.

534,461. DENTAL, MEDICAL, AND SURGICAL DRESSINGS AND BANDAGES. THE KENDALL COMPANY, Boston, Mass.
Filed Feb. 21, 1950, Serial No. 592,815. Published Aug. 29, 1950. Class 44.

534,462. HAND SAWS, CROSSCUT SAWS, AND SAW HANDLES. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky.
Filed Apr. 7, 1950, Serial No. 595,354. Published Aug. 29, 1950. Class 23.

534,463. CHILDREN'S AND INFANTS' WEAR—NAMELY, DRESSES, SUN DRESSES, BLOUSES, SHIRTS, DRESSING AND NIGHT GOWNS, KIMONAS, BATHROBES, ETC. SONIA INFANTS WEAR CO., INC., New York, N. Y.
Filed Apr. 14, 1949, Serial No. 597,032. Published Sept. 5, 1950. Class 39.

Service Marks

534,464. PLANNING AND PERSONALLY CONDUCTING TOURS BY AIRPLANE BUT INCLUDING THE USE OF OTHER VEHICLES, AND THE AIR TRANSPORTATION OF PASSENGERS ON SUCH TOURS. RESORT AIRLINES, INC., Pinehurst, N. C.
Filed July 5, 1947, Serial No. 527,587. Published Aug. 29, 1950. Class 105.

534,465. OIL WELL DRILLING, GEOLOGICAL SURVEYING, AND GENERAL OIL FIELD PETROLEUM ENGINEERING, AS CONTRACTOR FOR OTHERS. DRILLING AND EXPLORATION COMPANY, INC., Los Angeles, Calif.
Filed Oct. 13, 1947, Serial No. 537,667. Published Aug. 29, 1950. Class 100.

534,466. DESIGNING METAL WORK FOR BUILDING CONSTRUCTION PURPOSES, AND FOR INSTALLING METAL WORK INTO BUILDINGS IN THE PROCESS OF CONSTRUCTION, SAID METAL WORK BEING OF IRON, BRASS, BRONZE, ALUMINUM, AND THE LIKE, AND REPAIRING SUCH METAL WORK. FRED S. GICHNER IRON WORKS, INC., Washington, D. C.
Filed Oct. 21, 1947, Serial No. 538,530. Published Sept. 12, 1950. Class 103.

534,467. ADVERTISING SERVICE CONSISTING IN THE DISTRIBUTION OF BASKETS CONTAINING SAMPLE PRODUCTS AND ADVERTISING MATTER FROM MANUFACTURERS TO NEWLY WEDS. BRIDAL-ETTE BRIDE BASKET, New York, N. Y.
Filed Mar. 19, 1949, Serial No. 575,695. Published Aug. 29, 1950. Class 101.

534,468. RECONDITIONING AND REPAIRING VENETIAN BLINDS. REEVE-FOSTER COMPANY, INC., Teaneck, N. J.
Filed Aug. 18, 1949, Serial No. 583,661. Published Sept. 5, 1950. Class 103.

534,469. AIRPLANE TRANSPORTATION AND SHIPPING OF PASSENGERS, PROPERTY AND MAIL. BRANIFF AIRWAYS, INCORPORATED, Dallas, Tex.
Filed Sept. 23, 1949, Serial No. 584,943. Published Sept. 12, 1950. Class 105.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

534,470. (CLASS 39. CLOTHING.) BERKSHIRE KNITTING MILLS, Wyomissing and Reading, Pa. Original filed, act of 1905, Apr. 12, 1947; amended to application under act of 1946, Principal Register, Apr. 20, 1948; amended to Supplemental Register, June 5, 1950, Serial No. 520,547.

Sheer Sheer Berkshire

FOR HOSIERY.
Claims use since July 12, 1946.

534,471. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Original filed, act of 1905, May 9, 1947; amended to application under act of 1946, Supplemental Register, May 24, 1950, Serial No. 522,126.

FREE-LIFT

FOR BRASSIÈRES AND COMBINATIONS OF CORSETS AND BRASSIÈRES.
Claims use since Mar. 13, 1947.

534,472. (CLASS 43. THREAD AND YARN.) THE GRADY-TRAVERS COMPANY, INC., New York, N. Y. Original filed, act of 1946, Principal Register, July 17, 1947; amended to application, Supplemental Register, Sept. 14, 1948, Serial No. 528,785.

SUPER-TEST

FOR NON-MERCERIZED COTTON THREAD AND YARN.
Claims use since May 1927.

534,473. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WM. KRATT CO., Union, N. J. Original filed, act of 1946, Principal Register, Sept. 17, 1947; amended to application, Supplemental Register, June 3, 1950, Serial No. 534,793.

WM. KRATT CO.

FOR HARMONICAS.
Claims use since Aug. 11, 1945.

534,474. (CLASS 39. CLOTHING.) CHARLES REUBEN GOLDBLATT, trading as The Elton Weatherproof Co., Manchester, England. Original filed, act of 1946, Principal Register, Oct. 20, 1947; amended to application, Supplemental Register, July 3, 1950, Serial No. 538,398.

FOR RAINPROOF COATS AND RAINPROOF JACKETS ALL MADE FROM COTTON PIECE GOODS.
First used on Jan. 10, 1936, in Great Britain, and first used in commerce between Great Britain and the United States which may lawfully be regulated by Congress since June 1946.

534,475. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) S. STEIN & CO., INC., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 12, 1947; amended to application, Supplemental Register, Aug. 9, 1949, Serial No. 540,933.

KOOLKLOTH

The lines in the drawing are for shading. Applicant claims ownership of Registration No. 174,294.
FOR WOOLEN FABRICS IN THE PIECE AND IN CUT LENGTHS.
Claims use since Mar. 30, 1922.

534,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MENNER PACKING CORP., Newark, N. J., a corporation of New Jersey, assignee of Menner Packing Company. Original filed, act of 1946, Principal Register, Nov. 4, 1949; amended to application, Supplemental Register, Aug. 4, 1949, Serial No. 542,776.

Menner's

FOR CANNED SPANISH RICE, CANNED MACARONI WITH CREOLE SAUCE, CANNED BEEF STEW, CANNED CORNED BEEF HASH, AND CANNED LAMB STEW.
Claims use since Nov. 18, 1947.

534,477. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) THE TIMKEN-DETROIT AXLE COMPANY, Detroit, Mich. Original filed, act of 1946, Principal Register, Jan. 12, 1948; amended to application, Supplemental Register, Mar. 28, 1949, Serial No. 546,804.

The Accepted Standard

FOR FURNACES, BOILERS, WATER HEATERS, AND BURNERS AND COMPONENT PARTS THEREOF, AND AIR CONDITIONING APPARATUS—NAMELY, ROOM-TYPE UNITS FOR COOLING, HUMIDIFYING, FILTERING, AND CIRCULATING AIR, FOR USE IN HOMES, HOSPITALS, HOTELS, AND OFFICES; AND AIR CONDITIONING FLUID FUEL BURNING FURNACES FOR HEATING, HUMIDIFYING, FILTERING, AND CIRCULATING AIR IN BUILDINGS, AND COMPONENT PARTS THEREOF.
Claims use since August 1947.

534,478. (CLASS 39. CLOTHING.) I. SCHNEIERSON & SONS, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 30, 1948; amended to application, Supplemental Register, May 8, 1950, Serial No. 548,414.

SEW-EASY

FOR PRINCESS SLIPS, NIGHTGOWNS, LADIES' UNIFORMS FOR WORK PURPOSES, PAJAMAS, CHEMISES, AND CHILDREN'S PRINCESS SLIPS, NIGHTGOWNS, PAJAMAS AND CHEMISES.
Claims use since Nov. 26, 1947.

534,479. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) RAINWEAR SUPPLY, INCORPORATED, Passaic, N. J. Original filed, act of 1946, Principal Register, Nov. 8, 1947; amended to application, Supplemental Register, Aug. 1, 1949, Serial No. 549,338.

FILMETTE

FOR WATERPROOF COATED RAYON TAFFETA.
Claims use since Apr. 20, 1944.

534,480. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FORMAN, FORD AND CO., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Feb. 20, 1948; amended to application, Supplemental Register, Feb. 2, 1950, Serial No. 550,223.

SHINGL-DRES

Applicant claims ownership of Registration No. 429,718.
FOR DECORATIVE SIDING AND ROOF COATINGS IN THE NATURE OF PAINT.
Claims use since Jan. 14, 1948.

534,481. (CLASS 27. HOROLOGICAL INSTRUMENTS.) DAVID TAYLOR, doing business as Taylor Jewelry Company, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 8, 1948; amended to application, Supplemental Register, Oct. 3, 1950, Serial No. 551,496.

FOR LAPEL WATCHES.
Claims use since Apr. 15, 1945.

534,482. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) DAVID TAYLOR, doing business as Taylor Jewelry Company, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 8, 1948; amended to application, Supplemental Register, Sept. 28, 1950, Serial No. 551,497.

FOR INSIGNIA, INSIGNIA PINS, AND SERVICE MEDALS ALL MADE OF OR PLATED WITH GOLD, SILVER, OR OTHER PRECIOUS METAL, ALL FOR USE OF OFFICERS AND ENLISTED MEN OF THE ARMED FORCES OF THE UNITED STATES; FOR FLAT WARE AND HOLLOW-WARE MADE OF OR PLATED WITH PRECIOUS METAL; AND COSTUME JEWELRY.
Claims use since Apr. 15, 1945.

534,483. (CLASS 39. CLOTHING.) STANDARD KNITTING MILLS, INC., Knoxville, Tenn. Filed Apr. 14, 1948, Serial No. 554,625.

Cantilever Action

FOR MEN'S AND BOYS' KNITTED UNDERWEAR OF THE SUPPORT TYPE.
Claims use since May 1, 1941.

534,484. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FRANK SMITH SILVER COMPANY, Gardner, Mass. Original filed, act of 1946, Principal Register, May 12, 1948; amended to application, Supplemental Register, Sept. 12, 1950, Serial No. 556,927.

Woodlily

FOR STERLING SILVER TABLEWARE.
Claims use since November 1947.

534,485. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Original filed, act of 1946, Principal Register, June 16, 1948; amended to application, Supplemental Register, Feb. 21, 1950, Serial No. 559,349.

Posture-Fit

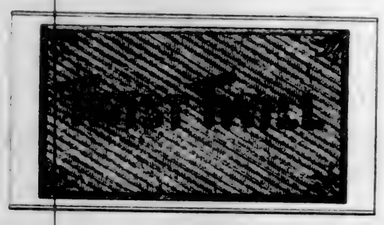
FOR MEN'S, YOUNG MEN'S, AND YOUTHS' OUTER CLOTHING—NAMELY, OVERCOATS, SUITS, TROUSERS, RAINCOATS, TOPCOATS, SPORTCOATS, VESTS.
Claims use since January 1939.

534,486. (CLASS 39. CLOTHING.) E. P. REED & CO., Rochester, N. Y. Original filed, act of 1946, Principal Register, Aug. 13, 1948; amended to application, Supplemental Register, Nov. 26, 1949, Serial No. 563,367.

TYLESS

FOR LADIES' SHOES.
Claims use since March 1931.

534,487. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) J. P. STEVENS & Co., INC., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 30, 1948; amended to application, Supplemental Register, Aug. 28, 1950, Serial No. 564,411.



The drawing is lined for shading purposes and according to conventional lining for the color blue, as indicated.
FOR COTTON FABRICS.
Claims use since Aug. 19, 1948.

534,488. (CLASS 39. CLOTHING.) BERNHARD ULMANN CO. INC., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Sept. 25, 1948; amended to application, Supplemental Register, Sept. 9, 1950, Serial No. 565,893.

WOOLSET

FOR KNITTED BABY GARMENTS, MADE IN WHOLE OR IN SUBSTANTIAL PART OF WOOL, AS FOLLOWS: HELMETS; SWEATERS—NAMELY, PULLOVERS AND CARDIGANS; JACKETS; SACQUES; STOCKINGS; SOAKERS; AND BABY BUNTING.
Claims use since Aug. 26, 1948.

534,489. (CLASS 18. MEDICINES AND PHARMACEUTICAL PREPARATIONS.) EDWIN J. ISLER, doing business as A-E Laboratories, Seattle, Wash. Original filed, act of 1946, Principal Register, Sept. 8, 1948; amended to application, Supplemental Register, Nov. 2, 1949, Serial No. 566,825.

ASTHMA-EASE

FOR INHALENT FOR THE SYMPTOMS OF ASTHMA AND HAY FEVER.
Claims use since July 20, 1947.

534,490. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CINEFOT INTERNATIONAL CORP., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 26, 1948; amended to application, Supplemental Register, Sept. 12, 1950, Serial No. 567,623.

Cinechrome

FOR PHOTOGRAPHIC AND CINEMATOGRAPHIC SENSITIZED FILMS AND PLATES.
Claims use since May 28, 1948.

534,491. (CLASS 38. PRINTS AND PUBLICATIONS.) VANCE PUBLISHING CORPORATION, Chicago, Ill. Filed Oct. 1, 1948, Serial No. 568,154.

Food Packer

Applicant claims ownership of Registration No. 412,207.
FOR MAGAZINE.
Claims use since November 1943.

534,492. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) NATIONAL SILVER COMPANY, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 10, 1948; amended to application, Supplemental Register, Sept. 15, 1950, Serial No. 568,519.

GLADIOLA

FOR SILVERPLATED FLATWARE.
Claims use since Oct. 14, 1948.

534,493. (CLASS 39. CLOTHING.) MCCOY, JONES & COMPANY, INC., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 8, 1948; amended to application, Supplemental Register, June 16, 1950, Serial No. 570,215.

ELECTROWELD

FOR RAIN CAPES, RAIN COATS, HOODS, AND SCARFS, FOR MEN, WOMEN, AND CHILDREN.
Claims use since Nov. 8, 1948.

534,494. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) TAB-LON OF HOLLYWOOD, Los Angeles, Calif. Filed Jan. 15, 1949, Serial No. 572,281.

Lok-Tooth

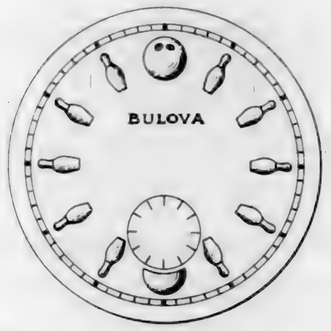
FOR TEETH LOCKING COMBS.
Claims use since Nov. 15, 1947.

534,495. (CLASS 39. CLOTHING.) GILBERT OF CALIFORNIA, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 18, 1949; amended to application, Supplemental Register, Sept. 1, 1950, Serial No. 572,401.

Holdapleat

FOR MEN'S AND WOMEN'S CLOTHING—VIZ, SUITS, COATS, TROUSERS AND SLACKS.
Claims use since Oct. 18, 1948.

534,496. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BULOVA WATCH COMPANY, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 24, 1949; amended to application, Supplemental Register, Feb. 2, 1950, Serial No. 574,407.



FOR WATCHES, MORE ESPECIALLY WRIST OR STRAP WATCHES.
Claims use since Jan. 22, 1949.

534,497. (CLASS 39. CLOTHING.) HOLEPROOF HOSIERY CO., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Mar. 17, 1949; amended to application, Supplemental Register, Apr. 14, 1950, Serial No. 575,582.

KRIMP SET

FOR HOSIERY.
Claims use since Mar. 10, 1949.

534,498. (CLASS 2. RECEPTACLES.) STEPHEN SCURICH, Watsonville, Calif. Original filed, act of 1946, Principal Register, Mar. 17, 1949; amended to application, Supplemental Register, Mar. 10, 1950, Serial No. 575,603.

FOR CARTON-LIKE BOX MADE UP OF WOOD ENDS WITH CORRUGATED PAPER SIDES AND BOTTOMS.
Claims use since Nov. 20, 1948.

534,499. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) MARTIN WEINER, doing business as Martin Weiner Co., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 17, 1949; amended to application, Supplemental Register, July 14, 1950, Serial No. 575,615.

All The Hues Fit To Print

FOR RAYON PIECE GOODS.
Claims use since Jan. 5, 1949.

534,500. (CLASS 39. CLOTHING.) BARKIN, LEVIN & CO., INC., New York, N. Y. Filed Apr. 29, 1949, Serial No. 577,935.

The portrait of the girl is fanciful. Applicant claims ownership of Registrations Nos. 228,767 and 378,276.
FOR LADIES', MISSES', AND SMALL WOMEN'S COATS.
Claims use since Feb. 16, 1948.

534,501. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHANDLER HEIGHTS CITRUS GROWERS, Chandler Heights, Ariz. Original filed, act of 1946, Principal Register, May 2, 1949; amended to application, Supplemental Register, July 10, 1950, Serial No. 578,073.

CHANDLER HEIGHTS

FOR FRESH CITRUS FRUITS.
Claims use since Dec. 2, 1948.

534,502. (CLASS 39. CLOTHING.) JOSEPH GOLDBERG & SONS, INC., Paterson, N. J. Original filed, act of 1946, Principal Register, May 6, 1949; amended to application, Supplemental Register, Oct. 5, 1950, Serial No. 578,380.

Paterson Maid

FOR WOMEN'S SKIRTS, DRESSES, COATS AND SUITS.
Claims use since Dec. 6, 1948.

534,503. (CLASS 39. CLOTHING.) HYDE PARK CLOTHES, INC., Newport, Ky. Original filed, act of 1946, Principal Register, May 13, 1949; amended to application, Supplemental Register, Sept. 30, 1950, Serial No. 578,796.

MultiTone

FOR MEN'S SUITS AND TOPCOATS.
Claims use since Feb. 9, 1949.

534,504. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) FULTON BAG & COTTON MILLS, Atlanta, Ga. Original filed, act of 1946, Principal Register, May 19, 1949; amended to application, Supplemental Register, July 5, 1950, Serial No. 579,095.

BLAZE BRAKER

FOR FIRE-RESISTANT BRATTICE CLOTH.
Claims use since May 9, 1949.

534,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) PACIFIC MILLS, New York, N. Y., and Boston, Mass. Original filed, act of 1946, Principal Register, June 18, 1949; amended to application, Supplemental Register, July 26, 1950, Serial No. 580,744.

HALIFAX

FOR WOOLEN FABRICS IN THE PIECE.
Claims use since June 9, 1949.

534,506. (CLASS 39. CLOTHING.) B. ALTMAN & CO., New York, N. Y. Original filed, act of 1946, Principal Register, June 24, 1949; amended to application, Supplemental Register, July 20, 1950, Serial No. 580,968.

SUPERWEVE

FOR MEN'S NEGLIGEE SHIRTS.
Claims use since Mar. 1, 1949.

534,507. (CLASS 38. PRINTS AND PUBLICATIONS.) M. C. SALMON, doing business as K. C. Medical Press, North Kansas City, Mo. Original filed, act of 1946, Principal Register, July 13, 1949; amended to application, Supplemental Register, Oct. 2, 1950, Serial No. 581,904.

The Little Doctor Book Series

FOR BOOKS AND SERIES OF BOOKS.
Claims use since June 15, 1948.

534,508. (CLASS 39. CLOTHING.) BRYAN FULL FASHIONED MILLS, Chattanooga, Tenn. Original filed, act of 1946, Principal Register, Aug. 8, 1949; amended to application, Supplemental Register, Sept. 12, 1950, Serial No. 583,141.

"54 40 AND RIGHT"

FOR DRESSES FOR WOMEN AND CHILDREN.
Claims use since July 14, 1949.

534,509. (CLASS 39. CLOTHING.) THE FRANK H. LEE COMPANY, Danbury, Conn., and elsewhere. Filed Aug. 16, 1949, Serial No. 583,540.

"Don't Take Less Than The Best
—Don't Take Less Than A LEE"

Applicant claims ownership of Registrations Nos. 274,050, 321,027, 321,346, 337,786, 360,303, 372,299, and 387,477.
FOR MEN'S HATS.
Claims use since July 1946.

534,510. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) FRANKLIN MANUFACTURING COMPANY, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 18, 1949; amended to application, Supplemental Register, June 20, 1950, Serial No. 583,648.

SUMMERIZED

FOR PIECE GOODS OF COTTON, RAYON, AND COMBINATIONS OF THE SAME.
Claims use since 1916.

534,511. (CLASS 39. CLOTHING.) HARRY ROSENBERG, doing business as Cardinal Neckwear, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 9, 1949; amended to application, Supplemental Register, Aug. 24, 1950, Serial No. 584,641.

FOR MEN'S NECKWEAR—NAMELY, FOUR-IN-HAND TIES, BOW TIES, AND SCARVES.
Claims use since January 1942.

534,512. (CLASS 39. CLOTHING.) THE ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 19, 1949; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 585,008.

Sheldon

FOR MEN'S SHOES MADE WHOLLY OR IN PART OF LEATHER.
Claims use since Aug. 5, 1949.

534,513. (CLASS 38. PRINTS AND PUBLICATIONS.) CLEWORTH PUBLISHING CO., INC., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 3, 1949; amended to application, Supplemental Register, Sept. 14, 1950, Serial No. 587,249.

INDUSTRIAL WOODWORKING

FOR PERIODICAL PUBLISHED MONTHLY.
Claims use since Sept. 1, 1949.

534,514. (CLASS 2. RECEPTACLES.) ETHEL M. HESS, doing business as Hide-A-Brush Container Co., Brook, Ind. Original filed, act of 1946, Principal Register, Nov. 14, 1949; amended to application, Supplemental Register, Oct. 5, 1950, Serial No. 587,727.

Hide-A-Brush

FOR METAL HOLDER THAT SITS ON THE FLOOR IN A CORNER FOR A TOILET BRUSH WHICH HOLDER IS SOLD EMPTY.
Claims use since Sept. 30, 1947.

534,515. (CLASS 39. CLOTHING.) LAMBERT MANUFACTURING COMPANY, Chillicothe, Mo. Original filed, act of 1946, Principal Register, Nov. 14, 1949; amended to application, Supplemental Register, Sept. 13, 1950, Serial No. 587,734.

Lambert

FOR MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY; GLOVES, MADE OF LEATHER, RUBBER, FABRIC, AND/OR ANY COMBINATIONS THEREOF; HATS AND CAPS FOR MEN AND BOYS.
Claims use since July 1, 1946.

534,516. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn., now by change of name Green Giant Company, a corporation of Minnesota. Filed Jan. 16, 1950, Serial No. 590,940.

Sweet as a kiss
Honest as Mother Earth!

FOR CANNED CORN AND CANNED PEAS.
Claims use since Sept. 28, 1947.

534,517. (CLASS 39. CLOTHING.) CORSETRY, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 3, 1950; amended to application, Supplemental Register, Sept. 14, 1950, Serial No. 591,913.

TAKES INCHES-AWAY

FOR CORSETS, GIRDLES, AND FOUNDATION GARMENTS.
Claims use since June 6, 1949.

534,518. (CLASS 39. CLOTHING.) JOSEPH A. AYOUB, doing business as Blou-Slip Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Apr. 12, 1950; amended to application, Supplemental Register, Oct. 3, 1950, Serial No. 595,586.

The end of the Shirt Tale

FOR LADIES' AND MISSES' BLOUSES, SKIRTS, AND COMBINATION GARMENTS CONSISTING OF SLIPS AND BLOUSES.
Claims use since Aug. 1, 1941.

Service Mark

534,519. (CLASS 102. INSURANCE AND FINANCIAL.) LIBERTY MUTUAL INSURANCE COMPANY, Boston, Mass. Filed Apr. 27, 1949, Serial No. 577,798.

We work to keep you safe

FOR UNDERWRITING OF ACCIDENT, LIABILITY, AND PROPERTY INSURANCE AND REINSURANCE—NAMELY, GENERAL LIABILITY, WORKMEN'S COMPENSATION, AUTOMOBILE AND AIRCRAFT DAMAGE AND LIABILITY, DISABILITY, FIDELITY, SURETY, BURGLARY, FORGERY, AND WATER DAMAGE.
Claims use since Mar. 1, 1945.

TRADE-MARK REGISTRATIONS RENEWED

74,717. STARS AND BORDER DESIGN LINED FOR GOLD. Registered Aug. 3, 1909. Oscar Altpeter. Renewed Aug. 3, 1949, to O. Altpeter & Son, also known and doing business as Baraboo Bottling Works, Baraboo, Wis., a firm. GINGER-ALE. Class 45.

79,318. "BALDWIN'S PERFUMES" ETC. AND DRAWING. Registered Aug. 30, 1910. The Baldwin Perfumery Co. Re-renewed Aug. 30, 1950, to Walter W. Baldwin, doing business as Baldwin Perfumer, Chicago, Ill. PERFUMERY, TOILET WATER, SACHET POWDERS, AND FACE POWDERS. Class 51.

80,334. WINDSOR. Registered Dec. 6, 1910. The Windsor Print Works, North Adams, Mass., and New York, N. Y. Re-renewed Dec. 6, 1950, to Consolidated Textile Co., Inc., New York, N. Y., a corporation of Delaware. PLAIN WHITE, DYED, AND PRINTED PERCALE. Class 42.

80,390. PIONEER. Registered Dec. 13, 1910. Tide Water Oil Company. Re-renewed Dec. 13, 1950, to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware. LUBRICATING OILS. Class 15.

80,553. CRESATIN. Registered Jan. 3, 1911. Schieffelin & Co., New York, N. Y. Re-renewed Jan. 3, 1951, to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland. ANALGESIC AND ANTISEPTIC FOR BOTH EXTERNAL AND INTERNAL USE. Class 18.

80,870. REPRESENTATION OF HANDGRIP DESIGN. Registered Feb. 7, 1911. Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Feb. 7, 1951. FLEXIBLE METALLIC TUBING. Class 35.

80,969. "LA SEVILLANA" AND DRAWING. Registered Feb. 21, 1911. Arguimbau & Ramee, New York, N. Y. Re-renewed Feb. 21, 1951, to Mawer-Gulden-Annis, Inc., Brooklyn, N. Y., a corporation of New York. OLIVES. Class 46.

81,043. HAWCO. Registered Feb. 21, 1911. Horace A. Whittemore. Re-renewed Feb. 21, 1951, to H. A. Whittemore & Company, Inc., Boston, Mass., a corporation of Massachusetts. HOCKEY-STICKS AND FISHING-TACKLE, CONSISTING OF FISH HOOKS, AND LINES, SPOON-BAITS, ETC. Class 22.

262,694. "CAMPARI" ETC. AND DESIGN. Registered Oct. 22, 1929. Davide Campari. Renewed Oct. 22, 1949, to Davide Campari-Milano, Milan, Italy, a limited liability firm organized under the laws of the Republic of Italy. LIQUOR TO BE DRUNK WITH SIMPLE OR CARBONATED WATER AND GENERALLY USED AS AN APERIENT. Class 18.

263,100. "A/B SF" AND DRAWING. Registered Oct. 29, 1929. Aktiebolaget Svenska Fläktfabriken, Stockholm, Sweden, a joint-stock company organized under the laws of the Kingdom of Sweden. Renewed Oct. 29, 1949. CENTRIFUGAL FANS AND PROPELLER FANS FOR HEATING AND VENTILATING PURPOSES, ETC. Class 34.

264,761. "STYLE STEP" AND DRAWING. Registered Dec. 3, 1929. Best Made Silk Hosiery Company, Quakertown, Pa., a corporation of Pennsylvania. Renewed Dec. 3, 1949. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Class 39.

271,831. "CLUB MANAGEMENT" ETC. Registered June 17, 1930. Management Magazines, Inc., Chicago, Ill. Renewed June 17, 1950, to Commerce Publishing Company, St. Louis, Mo., a corporation of Missouri. PERIODICAL. Class 38.

274,550. COLT. Registered Sept. 2, 1930. Colt's Patent Fire Arms Manufacturing Co. Renewed Sept. 2, 1950, to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut. DISH, SILVER, AND GLASS CLEANING MACHINES AND METAL-PARTS CLEANING MACHINES. Class 23.

274,598. TEMPERA=TEX. Registered Sept. 2, 1930. The O-P Craft Co., Inc., Sandusky, Ohio, a corporation of Ohio. Renewed Sept. 2, 1950. MEDIUMS USED IN SETTING COLORS TO PRODUCE A TEXTILE PAINT. Class 16.

274,603. "TOSCA" AND DESIGN. Registered Sept. 2, 1930. Paul Peter Mulhens, doing business as Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferedepost von Ferd. Mulhens, Cologne-on-the-Rhine, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Sept. 2, 1950. SOAPS, INCLUDING TOILET SOAPS AND SHAVING STICKS. Class 51.

274,604. "TOSCA-CREME" AND DESIGN. Registered Sept. 2, 1930. Paul Peter Mulhens, doing business as Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferedepost von Ferd. Mulhens, Cologne-on-the-Rhine, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Sept. 2, 1950. SOAPS, INCLUDING TOILET SOAPS AND SHAVING STICKS. Class 51.

274,781. "SPORT STYLES KOLLEGE KICKS" ETC. AND DESIGN. Registered Sept. 9, 1930. The Walker T. Dickerson Co., Columbus, Ohio, a corporation of Ohio. Renewed Sept. 9, 1950. SHOES MADE OF LEATHER, LEATHER AND FABRIC, AND THE COMBINATION OF LEATHER, RUBBER, AND FABRIC. Class 39.

275,129. NARCOSET. Registered Sept. 16, 1930. North American Refractories Company, Cleveland, Ohio, a corporation of Delaware. Renewed Sept. 16, 1950. HIGH TEMPERATURE BONDING MORTAR. Class 12.

275,133. PYROPLY. Registered Sept. 16, 1930. Loren W. Marsh, Arlington, Mass. Renewed Sept. 16, 1950, to Skydyne, Inc., Port Jervis, N. Y., a corporation of New York. COMPOSITE SHEET TO BE USED PRIMARILY AS A THERMAL INSULATION. Class 12.

275,189. VELVETEX. Registered Sept. 16, 1930. Edward J. Moran, Chicago, Ill. Renewed Sept. 16, 1950, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. GASSED RUBBER COMPOSITION MADE IN SHEETS FOR USE UNDER MATS, RUGS, AND FLOOR COVERINGS AND OTHER ARTICLES. Class 50.

275,807. GLASIRON. Registered Sept. 30, 1930. Wolverine Porcelain Enameling Co., Detroit, Mich., a corporation of Michigan. Renewed Sept. 30, 1950. VITRIFIED METALLIC TILE. Class 12.

276,083. "THE AMERICAN AUTOMOBILE" ETC. Registered Oct. 7, 1930. Business Publishers International Corporation. Renewed Oct. 7, 1950, to McGraw-Hill International Corporation, New York, N. Y., a corporation of New York. PERIODICAL RELATING TO AUTOMOTIVE AND ALLIED PRODUCTS. Class 38.

276,896. "NEW YORKER" AND DESIGN. Registered Oct. 28, 1930. Isador Alter, doing business as A'Cadia Powder Puff Co. Renewed Oct. 28, 1950, to A'Cadia Powder Puff Co., Inc., New York, N. Y., a corporation of New York. POWDER PUFFS. Class 29.

277,080. "ARCH KEEPER" ETC. AND DRAWING. Registered Nov. 4, 1930. J. M. Connell Shoe Co., South Braintree, Mass. Renewed Nov. 4, 1950, to J. M. Connell Shoe Co. Inc., Braintree, Mass., a corporation of Massachusetts. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. Class 39.

277,665. "JUNIOR-DEB". Registered Nov. 25, 1930. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 25, 1950. GIRLS' AND YOUNG WOMEN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATION OF THOSE MATERIALS. Class 39.

277,677. THE NATURE BILT. Registered Nov. 25, 1930. Forbes & Wallace, Inc., Springfield, Mass., a corporation of Massachusetts. Renewed Nov. 25, 1950. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. Class 39.

277,826. A K U. Registered Nov. 25, 1930. Algemeene Kunstzijde Unie N. V., Arnhem, Netherlands, a corporation organized under the laws of the Kingdom of the Netherlands. Renewed Nov. 25, 1950. ARTIFICIAL-SILK THREADS. Class 43.

278,218. MARVL-KOTE. Registered Dec. 9, 1930. Kreuter-Faasen Company. Renewed Dec. 9, 1950, to Kreuter Paint Company, Grand Rapids, Mich., a corporation of Michigan. FILLER-PRIMER, SEALER, OR SUCTION STOPPER APPLICABLE TO READY-MIXED, SEMI-PASTE, AND PASTE PAINTS, ETC. Class 16.

278,229. JR. DEB. Registered Dec. 9, 1930. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Dec. 9, 1950. GIRLS' AND YOUNG WOMEN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, AND OR COMBINATIONS OF THOSE MATERIALS. Class 39.

278,511. MANOR HOUSE. Registered Dec. 23, 1930. L. Bamberger & Co., Newark, N. J. Renewed Dec. 23, 1950, to R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. BON-BONS, CHOCOLATES, AND CANDIES. Class 46.

278,521. HARVEST QUEEN. Registered Dec. 23, 1930. The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado. Renewed Dec. 23, 1950. WHEAT FLOUR. Class 46.

279,037. "PIG-HIP" ETC. AND DESIGN. Registered Jan. 6, 1931. John C. Dinsmore, Amarillo, Tex. Renewed Jan. 6, 1951. SANDWICHES. Class 46.

279,128. "LOR-RITA" AND DESIGN. Registered Jan. 6, 1931. Loretta R. Hoffman, East Cleveland, Ohio. Renewed Jan. 6, 1951. LADIES' DRESSES, AND MORE PARTICULARLY LADIES' FUNERAL GOWNS. Class 39.

279,281. DUREXPAR. Registered Jan. 13, 1931. Durex Abrasives Corporation, Jersey City, N. J. Renewed Jan. 13, 1951, to Durex Abrasives Corporation, New Rochelle, N. Y., a corporation of Delaware. ABRASIVES—NAMELY, ABRASIVE COATED CLOTH OR PAPER, AND COMBINATIONS OF ABRASIVE PAPER AND CLOTH. Class 4.

279,381. ROTENOL. Registered Jan. 13, 1931. Kay Laboratories, Inc., assignor to Kay-Fries Chemicals, Inc. Renewed Jan. 13, 1951, to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., a corporation of New York. AGRICULTURAL INSECTICIDES. Class 6.

279,389. PENETHRUM. Registered Jan. 13, 1931. Kay Laboratories, Inc., assignor to Kay-Fries Chemicals, Inc. Renewed Jan. 13, 1951, to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., a corporation of New York. AGRICULTURAL INSECTICIDES. Class 6.

279,562. PAUL BUNYAN. Registered Jan. 20, 1931. Bone Dry Shoe Mfg. Co., Tacoma, Wash., a corporation of Washington. Renewed Jan. 20, 1951. LEATHER LOGGER SHOES. Class 39.

279,641. "IDEAL" AND DRAWING. Registered Jan. 20, 1931. Wilson & Toomer Fertilizer Company, Jacksonville, Fla., a corporation of Florida. Renewed Jan. 20, 1951. FERTILIZERS AND FERTILIZER MATERIALS. Class 10.

280,020. CHARGA-PLATE. Registered Feb. 10, 1931. Farrington Manufacturing Company, Boston, Mass. Renewed Feb. 10, 1951, to Farrington Manufacturing Company, Jamaica Plain, Boston, Mass., a corporation of Massachusetts. EMBOSSING AND PRINTING MACHINES AND PARTS THEREOF. Class 23.

280,054. "WANSKONA" ETC. AND DESIGN. Registered Feb. 10, 1931. Metcalf Brothers & Co., New York, N. Y., a firm. Renewed Feb. 10, 1951. WOOLEN PIECE GOODS AND FOR WOOLEN PIECE GOODS TO BE USED IN THE MANUFACTURE OF OVERCOATS. Class 42.

280,187. SUMMER SWEET. Registered Feb. 10, 1931. Taylor & Caldwell, Inc., Walkerton, Va., a corporation of Virginia. Renewed Feb. 10, 1951. CANNED LIMA BEANS. Class 46.

280,643. BREAK O'MORN. Registered Feb. 24, 1931. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Feb. 24, 1951. COFFEE. Class 46.

280,648. FINE'N DANDY. Registered Feb. 24, 1931. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Feb. 24, 1951. COFFEE. Class 46.

280,695. FLEISCHMANN'S. Registered Feb. 24, 1931. Standard Brands Incorporated, Dover, Del., Cincinnati, Ohio, and New York, N. Y. Renewed Feb. 24, 1951, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. FROZEN EGGS—NAMELY, FROZEN WHOLE EGGS, FROZEN EGG WHITES, AND FROZEN EGG YOLKS. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

271,165. DAREX. Registered May 27, 1930. Dewey & Almy Chemical Company, North Cambridge, Mass. SEPARATOR PLATES FOR STORAGE BATTERIES. Class 21. Amended as follows: In the statement, line 7, "235 Harvey Street" is deleted, and *62 Whittemore Avenue* is inserted in lieu thereof; and the drawing is amended to appear as follows:

DAREX

This amendment supersedes the one issued Oct. 10, 1950.

275,413. MAG-NA-LINE. Registered Sept. 23, 1930. The Electro Refractories Corporation, Buffalo, N. Y. REFRACTORY CEMENT. Class 12. Corrected as follows: In the certificate, line 4; and in the statement, line 3, "New York" should be *Delaware*.

291,673. RHEINGOLD. Registered Feb. 23, 1932. United States Brewing Co. of Chicago, Chicago, Ill. MALT BEVERAGE OF LESS THAN ONE-HALF OF ONE PERCENT ALCOHOL BY VOLUME. Class 48. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 for that area of the United States excluding the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New York, New Jersey, Delaware, Maryland, North Carolina, South Carolina, Florida, Georgia, Virginia, District of Columbia, Oregon, California, Louisiana, New Mexico, Arizona, Texas (south of the thirty-fourth parallel), Alabama (south of the thirty-third parallel), Mississippi (south of the thirty-second parallel); and excluding the territories of Alaska, Virgin Islands, Puerto Rico, Canal Zone, Guam, and Hawaii, as well as all other territorial possessions under the jurisdiction and control of the United States, by order of the Assistant Commissioner dated Nov. 7, 1950, following decision in Concurrent Use Proceeding No. 31, *Liebmann Breweries, Inc.* v. *United States Brewing Co. of Chicago*.

320,606. RHEINGOLD. Registered Jan. 1, 1935. United States Brewing Co. of Chicago, now by change of name The Elston Company, assignor to United States Brewing Co., Chicago, Ill. MALT BEVERAGES WITH NOT MORE THAN THE LEGAL ALCOHOLIC CONTENT. Class 48. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 for that area of the United States excluding the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New York, New Jersey, Delaware, Maryland, North Carolina, South Carolina, Florida, Georgia, Virginia, District of Columbia, Oregon, California, Louisiana, New Mexico, Arizona, Texas (south of the thirty-fourth parallel), Alabama (south of the thirty-third parallel), Mississippi (south of the thirty-second parallel); and excluding the territories of Alaska,

Virgin Islands, Puerto Rico, Canal Zone, Guam, and Hawaii, as well as all other territorial possessions under the jurisdiction and control of the United States, by order of the Assistant Commissioner dated Nov. 7, 1950, following decision in Concurrent Use Proceeding No. 31, *Liebmann Breweries, Inc.* v. *United States Brewing Co. of Chicago*.

409,573. DAREX. Registered Oct. 10, 1944. Dewey and Almy Chemical Company, Cambridge, Mass. CHEMICAL COMPOUND ESPECIALLY SUITABLE FOR USE AS AN AIR-ENTRAINING AGENT FOR PORTLAND CEMENT CONCRETE. Class 12. Amended as follows: In the statement, column 1, line 13, after "the" *containers for the* is inserted; column 2, line 2, "stencilling the mark on" is deleted and *applying a label to* is inserted in lieu thereof; and the drawing is amended to appear as follows:

DAREX

420,205. PRESTO. Registered Apr. 2, 1946. Presto Electric Co., Union City, N. J. ELECTRICAL APPLIANCES—TO WIT, ELECTRIC FANS, ETC. Class 21. Amended as follows: In the statement, lines 10 and 11, "electric coffee makers, electric toasters," is deleted.

421,159. DAREX. Registered May 21, 1946. Dewey and Almy Chemical Company, Cambridge, Mass. POLYMERIC MATERIALS FOR USE AS SYNTHETIC RUBBER AND FOR USE AS AN INGREDIENT IN RUBBER COMPOUNDS. Class 1. Amended as follows: In the statement, column 1, line 13, after "the" *containers of the* is inserted; column 2, line 5, "stencilling" is deleted and *applying a label to* is inserted in lieu thereof; same line 5, "brand marking" is deleted and *mark* is inserted in lieu thereof; line 6, "bales or packages," is deleted and *containers* is inserted in lieu thereof; and the drawing is amended to appear as follows:

DAREX

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 421,729. Registered June 18, 1946. FOOTE MINERAL COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.

ZIRMET

FOR DUCTILE ZIRCONIUM METAL.
Claims use since July 31, 1944.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Reg. No. 212,201. Registered Apr. 27, 1926. KREUTER-FAABEN CO., Grand Rapids, Mich. Republished by Kreuter Paint Company, Grand Rapids, Mich., a corporation of Michigan.

KRAFTSMAN

SHUMAN PROCESS

The words "Shuman Process" are disclaimed apart from the mark as shown.
FOR VARNISH AND PAINT ENAMEL PRODUCTS.
Claims use since July 20, 1925.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 398,137. Registered Oct. 13, 1942. CHICAGO PHARMACAL COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

URISED

FOR PHARMACEUTICAL PREPARATION FOR THE PROMOTION OF URINARY ANTISEPSIS AND SEDATION IN THE TREATMENT OF GENITO-URINARY INFECTION.
Claims use since Nov. 14, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 377,309. Registered Apr. 30, 1940. DAY & NIGHT WATER HEATER CO., LTD., Monrovia, Calif. Republished by Affiliated Gas Equipment, Inc., Cleveland, Ohio, and Monrovia, Calif., a corporation of Delaware.

LECTRO-GLO

FOR GAS SPACE HEATERS.
Claims use since Jan. 24, 1939.

CLASS 37

PAPER AND STATIONERY

Reg. No. 283,363. Registered May 26, 1931. JOSEPH BERG, New York, N. Y. Republished by Joseph Berg Manufacturing Stationer Inc., New York, N. Y., a corporation of New York.

EVEN-RITE

FOR CHECK BOOKS, ACCOUNT BOOKS, AND LEDGERS.
Claims use since Jan. 21, 1931.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 267,695. Registered Feb. 25, 1930. CARSON PIRIE SCOTT & Co., Chicago, Ill. Republished by E. H. Patterson Company, Chicago, Ill., a corporation of Illinois.

Chicago Market News

FOR PUBLICATION DEVOTED TO MARKET NEWS AND OTHER INTERESTS.
Claims use since about Sept. 23, 1929.

CLASS 39

CLOTHING

Reg. No. 267,535. Registered Feb. 25, 1930. LOUIS LEVINE & SONS, Cincinnati, Ohio. Republished by Louis Levine & Sons, Inc. of Ohio, Cincinnati, Ohio, a corporation of Ohio.

The expression "Haf-Siz Model" is disclaimed apart from the mark as shown.
FOR LADIES' DRESSES AND COATS.
Claims use since Mar. 1, 1929.

Reg. No. 276,503. Registered Oct. 21, 1930. LOUIS LEVINE & SONS, Cincinnati, Ohio. Republished by Louis Levine & Sons, Inc. of Ohio, Cincinnati, Ohio, a corporation of Ohio.

The word "Model" is disclaimed apart from the mark as shown.
FOR LADIES' AND MISSES' COATS, SUITS, DRESSES, OVERCOATS, BLOUSES, SKIRTS FOR OUTER WEAR, HATS, AND HOSIERY.
Claims use since 1919.

Reg. No. 291,811. Registered Feb. 23, 1932. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Alexandre
SINCE 1876

FOR GLOVES MADE OF LEATHER AND FABRIC AND OF COMBINATIONS OF THE SAME.
Claims use since Jan. 1, 1866.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 275,448. Registered Sept. 23, 1930. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

Canda

FOR PILE FABRICS IN THE PIECE AND IN CUT LENGTHS.
Claims use since Aug. 13, 1929.

Reg. No. 333,754. Registered Mar. 24, 1936. LEEWOOD FABRICS, INC., New York, N. Y., a corporation of Delaware. Republished by registrant.

LEEWOOD

FOR PILE FABRICS IN THE PIECE.
Claims use since Sept. 6, 1935.

Reg. No. 399,686. Registered Jan. 26, 1943. LEEWOOD FABRICS, INC., New York, N. Y., a corporation of Delaware. Republished by registrant.

LEEWOOD

FOR FLAT FABRICS CONSISTING OF MEN'S AND WOMEN'S WEAR FABRICS IN THE PIECE AND CUT LENGTHS, MADE FROM WOOL, MOHAIR, RAYON, SYNTHETIC ANIMAL FIBERS, AND COTTON, ALONE OR BLENDED.
Claims use since Sept. 6, 1935.

Reg. No. 438,721. Registered May 11, 1948. COLLINS & AIKMAN CORPORATION, Philadelphia, Pa., a corporation of Delaware. Republished by registrant.

CAMAIR FABRICS

The word "Fabrics" is disclaimed apart from the mark as shown.
FOR DRAPERY, UPHOLSTERY, AND CARPETING FABRICS SUITABLE FOR INTERIOR TRIM OF AIRSHIPS, SAID FABRICS CONSISTING OF MOHAIR DRAPERY, FRIZE, BEDFORD CORD, GABARDINE, AND PILE FABRICS ALL IN THE PIECE AND CUT LENGTHS.
Claims use since on or about Dec. 11, 1944.

Reg. No. 444,064. Registered July 4, 1950. JULIUS N. WERK FABRICS, INC., New York, N. Y., a corporation of New York. Republished by registrant.

TEMPETE

FOR RAYON PIECE GOODS.
Claims use since March 1943.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 171,599. Registered Aug. 7, 1923. THE GRAND FORKS BOTTLING WORKS, Grand Forks, N. Dak. Republished by Grand Forks Coca-Cola Bottling Company, Grand Forks, N. Dak., a corporation of North Dakota.

NODAK BEVERAGES

The word "Beverages" is disclaimed apart from the mark as shown.
FOR GINGER ALE, CREAM SODA, ROOT BEER, AND THE FOLLOWING FLAVORED SOFT DRINKS: CHERRY, GRAPE, LEMON, LEMON SOUR, LIME, ORANGE, RASPBERRY, AND STRAWBERRY.
Claims use since Apr. 1, 1922.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 316,323. Registered Aug. 21, 1934. THE D. L. CLARK COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Republished by registrant.

ZAG-NUT

The word "Nut" is disclaimed apart from the mark as shown.
FOR BULK CANDY AND CANDY BARS.
Claims use since Apr. 1, 1918.

Reg. No. 436,250. Registered Jan. 27, 1948. TIMERSON CANNING CO., INC., Martville, N. Y., a corporation of New York. Republished by registrant.

TIMCO

FOR CANNED DOG AND CAT FOOD.
Claims use since Aug. 15, 1945.

Reg. No. 438,050. Registered Apr. 6, 1948. TIMERSON CANNING CO., INC., Martville, N. Y., a corporation of New York. Republished by registrant.

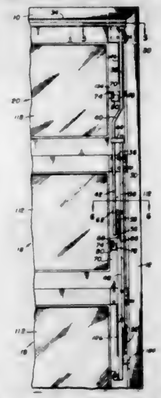
Rayco

FOR CANNED DOG AND CAT FOOD.
Claims use since Mar. 28, 1947.

REISSUES

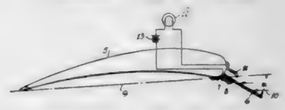
DECEMBER 5, 1950

23,301
WINDOW STRUCTURE
Attilio D. Carani, Miami, Fla.
Original No. 2,479,602, dated August 23, 1949, Serial No. 41,440, July 30, 1948. Application for reissue December 30, 1949, Serial No. 136,100
9 Claims. (Cl. 20—53)



1. A window structure comprising a frame, a plurality of windows hinged to said frame for outward swinging movement relative to said frame and including an upper window and a plurality of lower windows, upper and lower actuating bars slidably secured to said frame, means pivotally securing said upper actuating bar to said upper window, means pivotally securing said lower windows to said lower actuating bar, a lever pivoted to said frame, means carried by one of said actuating bars securing said actuating bars together whereby said upper actuating bar may be lowered independently of said lower actuating bar, means actuated by said lever for detaching the actuating bars from each other and forming a connection between said lever and said means securing said actuating bars together, counterbalancing means forming a connection between the windows and the frame and retaining said actuating bars in a selected lowered position, and liquid retaining means carried by said upper window for receiving a predetermined quantity of liquid, said counter-balancing means being responsive to an external pressure on said upper window from liquid disposed in said liquid retaining means for overcoming the counter-balancing action and urging all of said windows to a closed position.

23,302
STALL WARNING DEVICE FOR AIRPLANES
Leonard Greene, Scarsdale, N. Y.
Original No. 2,478,967, dated August 16, 1949, Serial No. 535,265, May 12, 1944. Application for reissue December 31, 1949, Serial No. 136,341
3 Claims. (Cl. 177—311)



1. The combination with an airfoil having a front separation point which shifts over the outer surface thereof with respect to a limit as the angle of attack varies, the approach to said limit substantially coinciding with the approach to stalling conditions, sensing means comprising a movable vane having at least one portion located within the range of influence of said shifting separation point and arranged to function on approach of said point to said stalling conditions, and indicating means controlled by said sensing means.

PLANT PATENTS

GRANTED DECEMBER 5, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

996
ROSE PLANT
Fred H. Howard, deceased, late of Montebello, Calif., by Minnie J. Howard, executrix, Montebello, Calif., assignor to Howard & Smith, Montebello, Calif.
Application December 12, 1949, Serial No. 132,506
1 Claim. (Cl. 47—61)

The new and improved variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its very strong and vigorous growth; its exceedingly prolific production of good flowers; its very large, dark green, substantial, disease-resistant foliage, with unusual rounded leaflets; its long, sturdy flower stems; its long, pointed bud; and the substantial petals of its flowers.

PATENTS

GRANTED DECEMBER 5, 1950

2,532,276

PRODUCTION AND RECOVERY OF PARA-XYLENE

Stanley Francis Birch, Frederick Arnold Fidler, and John Norman Haresnape, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

No Drawing. Application April 3, 1947, Serial No. 739,261. In Great Britain April 12, 1946
6 Claims. (Cl. 260—668)

1. A process for the production of para-xylene from an aromatic hydrocarbon mixture boiling in the range 135° C. to 150° C. and derived from a mineral oil selected from the group coal tar and petroleum, wherein the mixture is fractionally distilled to provide an overhead fraction rich in ethyl benzene, para-xylene and meta-xylene, an intermediate cut rich in meta-xylene and a residue fraction rich in ortho-xylene, the overhead fraction being passed to a low temperature filtration zone wherein para-xylene is separated as a solid, fractionally distilling the residue obtained from said low temperature filtration to obtain a para-xylene enriched fraction containing at least 25% by weight of para-xylene and a meta-xylene enriched fraction containing less than 10% by weight of para-xylene and thereafter subjecting the para-xylene enriched fraction to low temperature filtration for the recovery of para-xylene and subjecting the said meta-xylene enriched fraction together with said intermediate cut rich in meta-xylene to catalytic isomerisation at a temperature within the range of 260° C. to 677° C. to convert at least part of said meta-xylene to para-xylene, and recovering para-xylene from the isomerisation product.

2,532,277

1,6 HEXANEDIAMINE DERIVATIVES

John E. Castle, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 21, 1948, Serial No. 28,532
11 Claims. (Cl. 260—583)

1. A process for the simultaneous addition of a compound to a double bond of a 1,4-dicyanobutene and hydrogenation of the nitrile groups thereof to amino groups, which comprises passing continuously under alkaline conditions over a hydrogenation catalyst selected from the group consisting of cobalt and nickel hydrogenation catalysts at a temperature in the range of 50° to 250° C. and under a pressure in excess of 400 lbs./sq. in. a mixture of a 1,4-dicyanobutene, hydrogen and a compound selected from the group consisting of monohydric alcohols of not more than 18 carbon atoms which are entirely hydrocarbon except for the hydroxyl oxygen, monohydric ether alcohols which are entirely hydrocarbon except for the ether and hydroxyl oxygens, ammonia, primary and secondary monoamines of not more than 18 carbon atoms which are entirely hydrocarbon except for the amino nitrogen, and primary monoamines of not more than 18 carbon atoms in which a lower alkoxy lower alkyl radical is attached to the amino nitrogen and which are entirely hydrocarbon except for ether oxygen and the amino nitrogen.

11. The chemical compound 1,3,6-hexanetriamine.

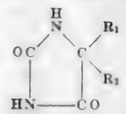
2,532,278

PRODUCTION OF HYDANTOIN FORMALDEHYDE RESINS

Albert F. Chadwick, Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 24, 1948, Serial No. 23,148
6 Claims. (Cl. 260—67.5)

1. A process for the production of hydantoin formaldehyde resins which comprises bringing together a hydantoin having the formula



wherein R_1 and R_2 are taken from the class consisting of hydrogen, monovalent aliphatic, and cyclo aliphatic groups and formaldehyde in the presence of a buffer salt taken from the group consisting of alkali metal salts of unsubstituted aliphatic mono- and di-carboxylic acids containing not to exceed four carbon atoms, alkali metal salts of boric acid, and alkali metal salts of phosphoric acid, said salts being present in a sufficient amount that the initial pH of the reaction mixture is not less than 5.0, and heating said mass while blowing air therethrough until a resin of a higher softening point is obtained.

2,532,279

HYDROGENATED FURFURALACETOFURAN

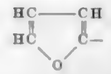
Kliem Alexander, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application February 15, 1949, Serial No. 76,637
8 Claims. (Cl. 260—345)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

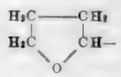
1. A compound of the formula

$$R—CH_2—CH_2—R'—R$$

where R is selected from the monovalent radicals consisting of



and

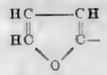


and R′ is selected from the divalent radicals consisting of

and

R′ of the selection

appearing only when R is the selection

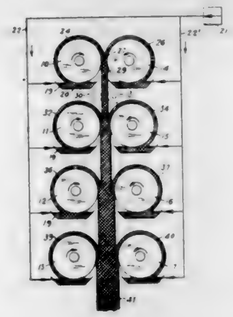


2,532,280

CONTINUOUS WAX MOLDING PROCESS

Ralph G. Atkinson, Maple Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application June 18, 1947, Serial No. 755,512
5 Claims. (Cl. 18—55)



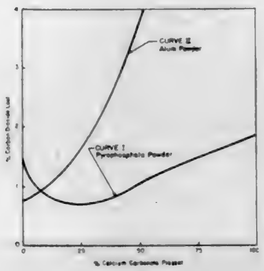
1. A continuous wax molding process comprising forming a layer of paraffin wax in a molten state upon a moving surface, forming a second layer of said wax in a molten state upon a second moving surface, cooling said layers while on said surfaces to change said wax from a molten to a semi-solid to solid state, and joining said first and second layers while at least one of said layers is on the surface on which it is formed to form a unitary sheet of wax.

2,532,281

PYROPHOSPHATE BAKING POWDER

William E. Barch, New York, N. Y., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

Application October 15, 1947, Serial No. 779,911
7 Claims. (Cl. 99—95)



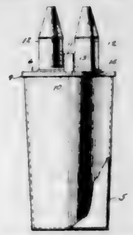
1. A pyrophosphate baking powder having improved keeping qualities wherein the filler comprises calcium carbonate in an amount between about 7% and about 75% of the total weight of the filler.

2,532,282

INHALER

Jimmie Myron Benson, Miami, Fla.

Application May 27, 1949, Serial No. 95,680
5 Claims. (Cl. 128—198)



1. An inhaler comprising a container, a cover therefor, said cover having an air inlet, nozzles mounted in said cover, and valve discs in the nozzles adapted to permit air to move out of the container, while yet preventing the admission of air into the container through the nozzles.

2,532,283

NICKEL PLATING BY CHEMICAL REDUCTION

Abner Brenner, Chevy Chase, Md., and Grace E. Riddell, Washington, D. C.

No Drawing. Application May 5, 1947, Serial No. 746,151
11 Claims. (Cl. 117—50)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An autocatalytic chemical reduction process for continuously plating nickel on metallic objects consisting essentially of a metal selected from the group consisting of iron, platinum, silver, nickel, gold, cobalt, palladium, aluminum, and copper, said process comprising the steps of: providing an aqueous solution of a nickel salt and an alkaline hypophosphite, the nickel ion being present in an amount not substantially in excess of about 3 parts by weight to about 100 parts by weight of said solution, the hypophosphite radical being present in an amount not substantially in excess of about 3 parts by weight to about 100 parts by weight of said solution, immersing an object of one of said metals in said solution, nickel plating said immersed object by autocatalytic reaction of said salt and said hypophosphite, removing said plated object from said solution, maintaining said solution throughout the period of said immersion at a temperature in the range of about 90 degrees centigrade to about 100 degrees centigrade and at a substantially uniform pH value in the range of about 3 to about 9 by the presence in the solution of at least one of the salts selected from the group consisting of sodium salts of carboxylic acids and ammonium salts, and introducing throughout said immersion period and at substantially regular intervals additional hypophosphite into said solution in amounts of about 5 grams per liter of said solution.

2,532,284

COBALT PLATING BY CHEMICAL REDUCTION

Abner Brenner, Chevy Chase, Md., and Grace E. Riddell, Washington, D. C.

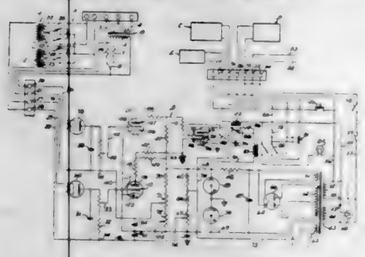
No Drawing. Application May 5, 1947, Serial No. 746,152
5 Claims. (Cl. 117—50)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An autocatalytic chemical reduction process

for continuously plating cobalt on metallic objects consisting essentially of a metal selected from the group consisting of iron, nickel, cobalt, palladium, and copper, said process comprising the steps of: providing an aqueous solution of a cobalt salt and an alkaline hypophosphite, the cobalt ion being present in an amount not substantially in excess of about 2.5 parts by weight to about 100 parts by weight of said solution, the hypophosphite radical being present in an amount not substantially in excess of about 10.7 parts by weight to about 100 parts by weight of said solution, immersing an object of one of said metals in said solution, cobalt plating said immersed object by autocatalytic reaction of said salt and said hypophosphite, removing said plated object from said solution, maintaining said solution throughout the period of said immersion at a temperature in the range of about 90 degrees centigrade to about 100 degrees centigrade and at a substantially uniform pH value in the range of about 8 to about 11 by the presence in the solution of at least one of the salts selected from the group consisting of sodium citrate, Rochelle salts and ammonium chloride, and introducing throughout said immersion period and at substantially regular intervals additional hypophosphite into said solution in amounts of about 5 grams per liter of said solution.

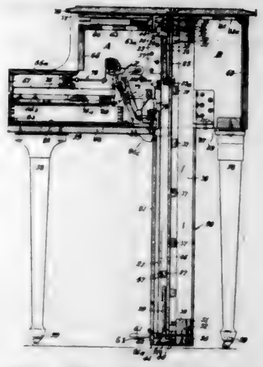
2. A process as defined in claim 1 wherein the metallic object consists essentially of copper and prior to immersion in the cobalt plating solution is dipped in a solution of palladium chloride and hydrochloric acid.

2,532,285
PROTECTIVE DEVICE
Everett C. Brill, Granby, Conn., assignor of one-half to James G. Schnell, Granby, Conn.
Application July 8, 1949, Serial No. 103,660
19 Claims. (Cl. 175—294)



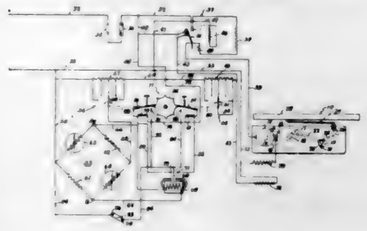
5. A protective device for use with electrically operated means having a current and a voltage input comprising, in combination, a protective circuit, means for energizing said circuit comprising a gas filled tube having a pair of elements for receiving a plurality of opposed voltages and constructed and arranged to discharge when an increment in one of said opposed voltages in a positive direction exceeds a compensating decrement in a positive direction of the other of said opposed voltages, means operatively connected to one element of the tube for developing one of said opposed voltages and for varying said voltage in a positive direction in increments having a linear relationship to increases in one of said inputs, and means operatively connected to the other element of the tube for developing the other of said voltages and for varying same in a positive direction in decrements having a hyperbolic relationship to decreases in the other of said inputs, the amount of said decrements being sufficient to compensate for said increments when one of the inputs varies approximately inversely with respect to the other of said inputs.

2,532,286
VERTICALLY STRINGED GRAND PIANO
Alexander P. Brown, Beechhurst, N. Y.
Application June 7, 1947, Serial No. 753,186
11 Claims. (Cl. 84—240)



1. In a piano, the combination of a case of grand piano configuration, a vertically disposed soundboard, a vertically disposed string plate connected with the soundboard, a vertically disposed back frame parallel with and secured to said soundboard, and extending below the grand piano case, the upper parts of the frame, plate and soundboard extending from side to side of said case and dividing the grand piano case into a forward sound resonance chamber and a rearward sound resonance chamber, and a vertically disposed casing enclosing the parts extending below the grand piano case, said last named casing being intermediate the front and rear of the grand piano case.

2,532,287
SPEED CONTROL SYSTEM
Roger M. Buckeridge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 22, 1948, Serial No. 34,440
9 Claims. (Cl. 318—306)



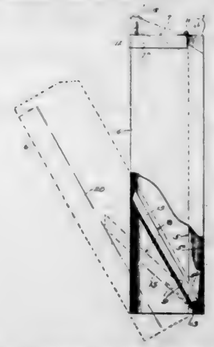
1. In a speed control for a rotating electrical machine having a field and a supply line at variable voltage supplying power to said rotating machine, a circuit having a bridge therein having said line voltage impressed thereacross and balanced for a particular line voltage, said bridge having current carrying arms including a resistance element therein having a negative temperature coefficient of resistance, a polarized relay adapted to operate when said bridge is unbalanced, a switch adapted to be operated intermittently, a stepping relay adapted to be operated by the operation of said switch and said polar relay, a voltage divider in circuit with said bridge circuit adapted to be operated by said stepping relay to rebalance said bridge, and a rheostat adapted to be operated by said stepping relay for maintaining the proper voltage across the field of said rotating machine to produce constant speed irrespective of the line voltage.

2,532,288
HEAT EXCHANGE UNIT
Herman F. Buschow, North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application June 21, 1946, Serial No. 678,464
7 Claims. (Cl. 257—228)

1. A heat exchanger fin comprising a plate-like member of foil-like thickness of high heat conducting material having a central opening defined by an integral flange, a second integral flange on the periphery thereof and having in the face thereof a multiplicity of closely-spaced passages formed by cutting the plate-like member along closely spaced lines disposed substantially radially of said central opening and deflecting the material between contiguous lines to provide vanes defining the side walls of said passages, each of said vanes extending substantially equidistantly above and below the original plane of said plate-like member and having the opposite terminal ends thereof integral with the said flanges, substantially the entire surface of the face of said plate-like member being thus deflected without waste to produce said vanes and being thus utilized as a heat exchange surface, said member adapted to be stacked with at least one of said flanges of each member except one terminal member in substantially abutting relationship with the face of a contiguous member to provide a relatively large mass of high heat conducting material per unit of heat exchanger volume permeated by a multiplicity of said passages for flow of a fluid medium therethrough in surface contact with said vanes.

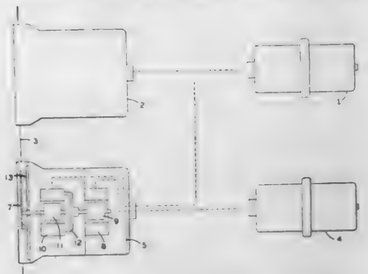
2,532,289
OPEN BOTTOM DEPOSIT AND COLLECTION RECEPTACLE
John Lewis Cahill, Dayton, Ohio
Application April 20, 1949, Serial No. 88,662
3 Claims. (Cl. 232—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A deposit and collection receptacle for papers and the like comprising a back wall member adapted to be fixed to a wall or other vertical support; a lid member hinged to the top of the back wall member with its hinge arranged so that the front end of the lid member lifts up; a front section or member adapted to form a receptacle in co-operation with the lid and the back wall member, said front section or member being open at its top and bottom and being pivotally connected at its bottom to the lower end of the back wall member and swingable outwardly therefrom at its top; the lid member when closed fitting over the upper end of the front section or member and



holding it adjacent the back wall member; a paper holder movably mounted within the receptacle; and a spring actuating the paper holder to hold it pressing yieldably against the inside wall of the front section or member, so that the paper holder will yield when papers are thrust upwardly through the open bottom end of the receptacle and will engage such papers to hold them by friction within the receptacle; said spring being of such strength as to swing the pivoted front section or member outwardly when the lid member is swung open.

2,532,290
COMPOUND INDICATING INSTRUMENT
Charles W. Cochran, Jr., United States Navy, Yeadon, Pa.
Application December 29, 1945, Serial No. 637,811
3 Claims. (Cl. 235—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A compound indicating instrument comprising in combination a plurality of sensing units each having an autosyn transmitter unit adapted to transmit a logarithmic function of a sensed indication, and a remote receiver device comprising a plurality of autosyn receiver units each having a field winding and a rotor and each connected to

one of said autosyn transmitter units and having the rotor of one of said receiver units drivably connected to the field winding of a second of said receiver units whereby the output indication of said second receiver is the arithmetical computation of the indications of both said receivers.

2,532,291
PHENYLMERCAPTOACRYLATES AND PHENYLMERCAPTOMALEATES
Willard J. Croxall, Bryn Athyn, and Louis R. Freimiller, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,609
7 Claims. (Cl. 260—470)

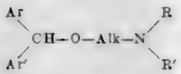
1. A process which comprises reacting one mole of an ester of the formula

$$(RO)_nCCH_2COOR$$
$$\quad\quad R''$$

wherein R represents a saturated non-tertiary aliphatic hydrocarbon group of not over eight carbon atoms, R'' represents a member of the class consisting of hydrogen and the —COOR group, and n represents an integer from one to two, with one mole of a monohydric phenyl mercaptan by heating at a temperature between 90° C. and 250° C. in the presence of an alkali metal acid sulfate as catalyst and separating the alcohol ROH therefrom.

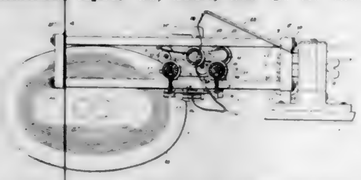
2,532,292
DIARYLMETHYL ETHERS OF AMINO ALKANOLS
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application December 12, 1947, Serial No. 791,456
19 Claims. (Cl. 260—570)

1. A di-aromatic-substituted-methyl hydroxyalkylaminoalkyl ether, having the formula



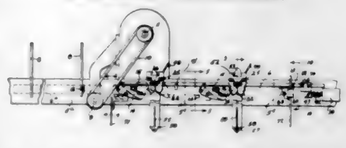
wherein Ar and Ar' are monocyclic aromatic radicals, Alk is a lower alkylene radical, R is a lower alkyl radical substituted with at least one hydroxyl group and R' is a member of the group consisting of hydrogen, lower alkyl and lower hydroxyalkyl radicals, and salts thereof.

2,532,293
TONE ARM CARRIAGE
Eugene R. De Weese, Arlington, Va.
Application July 12, 1946, Serial No. 683,197
4 Claims. (Cl. 274—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. A carriage for a tone arm of the nature described comprising two vertically spaced substantially parallel bars, a frame, a plurality of wheels for supporting said frame on the lower of said bars, another bar pivotally mounted adjacent one of its ends in said frame for movement toward and away from said upper bar in a plane substantially parallel to the plane of said bars, another wheel mounted in said last-mentioned bar spaced from said pivot and in the plane of the first-mentioned bars and thereby adapted normally to run along the lower surface of the upper of said two first-mentioned bars, means secured to the second end of said last-mentioned bar including a spring, a support for said spring said support being mounted in said frame for variably urging said last-mentioned wheel toward said upper bar, and means including a stop in said frame beneath said last-mentioned bar for variably limiting its movement away from said upper bar.

2,532,294
MACHINE FOR ASSEMBLING VENETIAN BLINDS
Robert D. Edwards and Frank E. Edwards, Miami, Fla.
Application February 10, 1949, Serial No. 75,574
20 Claims. (Cl. 29—241)

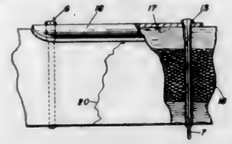


3. In a machine for assembling Venetian blind slats with the conventional tapes and their component ladders, means for feeding slats endwise into the machine, spaced guides for receiving the slats, said guides comprising means adapted to permit the slats to move endwise through them but capable of permitting the slats to be thrust sidewise from said guides, ladder engaging elements shaped to engage the ladder which overlies a slat and hold it separated from the ladder below the slat until the slat has completed its endwise movement, and means controlled by the endwise movement of the slat for thrusting the slat bodily sidewise out of the guides upon such completion of endwise movement of the slats, said ladder engaging elements being constructed to yield to permit the overlying ladder to pass and to then engage the next succeeding ladder to separate it from the just passed ladder, preparatory to the entry of a next succeeding slat between said ladders.

2,532,295
THERMAL PROCESS FOR PRODUCING THE CARBIDES OF TANTALUM AND COLUMBIUM
Daniel Gardner, New York, N. Y.
No Drawing. Application September 14, 1946, Serial No. 697,154
10 Claims. (Cl. 23—208)

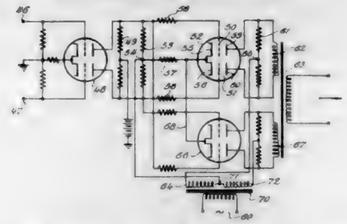
1. The process for producing the carbide of a metal of the metal group consisting of tantalum, columbium and mixtures thereof, from a starting material which contains as a compound of such group metal a halide of the halide group consisting of the pentachloride and the pentafluoride of such metal; comprising reacting the same in gaseous phase at a temperature of the order of about 600° to 760° C., in mixture with a hydrogeniferous agent providing at such temperature gaseous hydrogen to combine chemically with and remove the halogen constituent of such halide, and a carboniferous agent yielding at such temperature freed carbon to combine chemically with the group metal constituent of such halide; and separating the resulting carbide from the byproducts of the reaction.

2,532,296
BONE SCREW AND METHOD OF FASTENING
Joseph H. Giesen, Waterville, Maine
Application November 9, 1948, Serial No. 59,179
4 Claims. (Cl. 128—92)



1. A bone screw comprising a drilling point merging into a tapered tap portion; an elongated, threaded holding portion of uniform diameter integral with said tap portion and merging into a second and enlarged tap portion; a second threaded holding portion of uniform diameter extending from said enlarged tap portion; and a substantially flat and relatively thin head integral with said second holding portion.

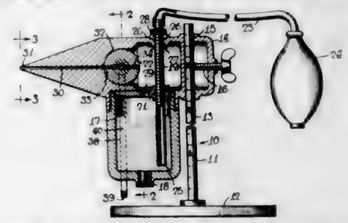
2,532,297
MODULATING CIRCUITS HAVING A FULL WAVE ALTERNATING VOLTAGE OUTPUT
Raymond C. Goertz, Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 5, 1946, Serial No. 707,954
14 Claims. (Cl. 332—24)



2. A modulator circuit comprising a source of direct voltage, a pair of electron discharge paths, a source of alternating voltage, means connecting said alternating voltage in series with each of said paths, means for oppositely controlling the discharge along said paths under control of said direct voltage, in such manner that one path will be conductive for one polarity of said direct voltage and the other path will be conducted for reverse polarity of said direct voltage, and means for connecting the outputs of said paths in series opposition to form a net output, so that the net output will contain an alternating output voltage whose phase corresponds to the polarity of said direct voltage.

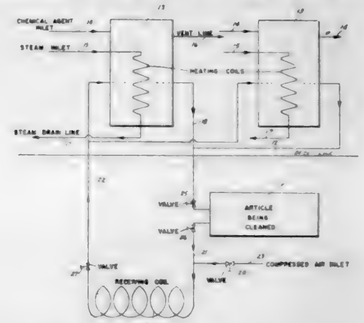
2,532,298
SKIRT MARKER
Samuel R. Goldstein, New York, N. Y.
Application March 19, 1947, Serial No. 735,658
3 Claims. (Cl. 33—9)

1. In a skirt marker having a nozzle and including a marking material retaining chamber and having pneumatic means for expelling said marking material from said chamber through the nozzle connected by a passage with said chamber, and supported upon a tiltable standard, valving means trunnioned for rotation in said nozzle for controlling the flow of marking material through said passage to said nozzle and a gravitationally



actuated plumb arm connected with said valve to limit the discharge of marking material in tilting the nozzle and its standard from a predetermined position whereby flow through the nozzle is prevented in a tilted position and to expel the marking material substantially only along a predetermined level.

2,532,299
APPARATUS FOR CLEANING EQUIPMENT WITH A CHEMICAL AGENT
Pasquale Greco, New York, N. Y.
Application September 10, 1945, Serial No. 615,489
1 Claim. (Cl. 34—104)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

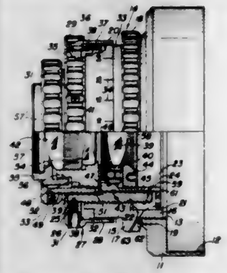


A cleaning system for use on board ship comprising a tank for a chemical agent heating means for said tank to vaporize said agent, a first descending pipe between said tank and the object to be cleaned, a second descending pipe between the object to be cleaned and a receiving coil, a compressed air line connected to said second pipe, a third ascending pipe between said receiving coil and said tank, a valve in said first pipe, a valve in said second pipe between the object to be cleaned and said compressed air line, a valve in said compressed air line, and a valve in said third pipe.

2,532,300
FOCUSING OBJECTIVE
James E. Harvey, Ann Arbor, Mich., assignor to Argus, Incorporated, Ann Arbor, Mich., a corporation of Michigan
Application September 24, 1947, Serial No. 775,786
4 Claims. (Cl. 88—57)

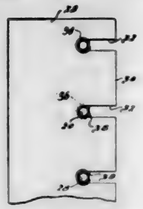
1. In a lens mount assembly, a support having a threaded bore, a lens mount member rotatably

threaded in said bore for axial focusing adjustment, a focusing ring releasably secured to said member and adapted to be secured thereto in any angular relation therewith, a barrel on said ring extending over a portion of said support, oppositely extending axial stop projections on



said support and ring housed mainly by said barrel, engagement of said projections limiting axial displacement of said member in one direction, and coacting scale and index markings on said ring and support correlated with the relative positions of said projections.

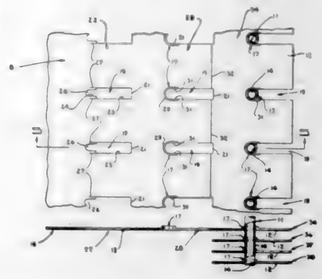
2,532,301
CONDENSER
James R. Hayward, Washington, Ind., assignor, by mesne assignments, to McCord Corporation, Detroit, Mich., a corporation of Maine
Application November 29, 1945, Serial No. 631,540
4 Claims. (Cl. 257—262.11)



3. A heat exchanger comprising a flat fin having an open slot in an edge thereof, a round tube extending through said slot, said fin having an integral continuous flange portion at the inner end of said slot projecting laterally from said fin to form a seat for said tube, said flange portion having the ends thereof separated from said fin and deflected across said slot and toward the closed end thereof into engagement with said tube on the open side of said slot for securing said tube in assembled relation with said fin.

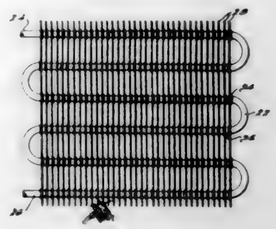
2,532,302
METHOD OF MAKING HEAT EXCHANGERS
James R. Hayward, Washington, Ind., assignor to McCord Corporation, Detroit, Mich., a corporation of Maine
Application January 2, 1948, Serial No. 307
8 Claims. (Cl. 113—118)

1. A method of forming heat exchange devices which comprises moving a sheet of fin stock in the direction of its length, successively forming openings at longitudinally spaced points in said sheet of fin stock by removing strips of metal from said fin stock inwardly from a point corresponding to the forward edge of a fin to be formed so as to define a tube slot approximately of tube width at a front portion of said slot and of less than tube width at a rear portion of said slot, forming in the leading slot a U-shaped flange around said rear portion of said slot with the legs of said flange extending along the sides of said slot, projecting a tube within said leading slot against the bend of said flange by relative lateral movement of said fin stock and said tube, cutting a



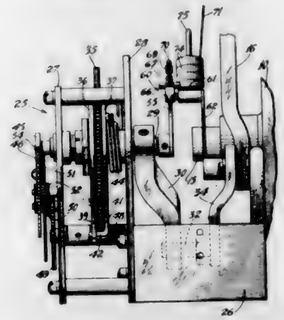
fin from said fin stock by severing said fin stock between the front end of the succeeding tube slot and the adjacent side edges of said fin stock, projecting said flange legs of said leading tube slot inwardly around the front of said tube, and indexing said tube and fin transversely out of the plane of said fin stock to provide space on said tube for repeating the aforesaid operations.

2,532,303
APPARATUS FOR MAKING FINNED TUBE HEAT EXCHANGERS
James R. Hayward, Washington, Ind., assignor to McCord Corporation, Detroit, Mich., a corporation of Maine
Original application November 29, 1945, Serial No. 631,540. Divided and this application February 6, 1948, Serial No. 6,663
10 Claims. (Cl. 153—48)



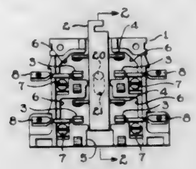
1. Apparatus for securing a slotted sheet material fin to a round tube extending through the slot in said fin comprising a die having a slot for receiving said tube and a transverse slot for receiving said fin with the tube extending through the slot in said fin, said fin having portions capable of being deflected around the tube, said tube slot in the die having a seat for receiving and holding said tube when the fin is pressed onto said tube and said die having means adjacent the bottom of said tube slot therein for engaging said portions of the fin adjacent the slot and deflecting said portions of said fin around the tube on the open side of said slot when said fin is pressed onto said tube.

2,532,304
CONTROL DEVICE FOR WINDING MACHINES
Edward J. Heizer, West Caldwell, and Meredith R. Stuart, Belleville, N. J., assignors to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application December 19, 1946, Serial No. 717,188
11 Claims. (Cl. 242—18)



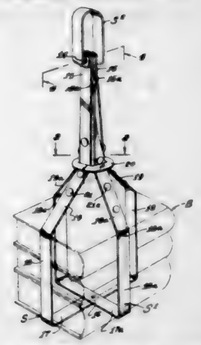
1. In a winding machine comprising a rotatable package support and thread guide supporting means, the supporting means and the package support being relatively movable into separated position under the influence of gravity; the combination of means for contacting the package adapted to be operated thereby as the package grows in size, means for retarding separation of the supporting means and the package support including locking means controlled by said contacting means, and a spring member for assisting the force of gravity to effect separation of the supporting means and the package support.

2,532,305
ELECTRIC SWITCH
Herbert E. Heller, West Allis, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application August 17, 1949, Serial No. 110,720
5 Claims. (Cl. 200—165)



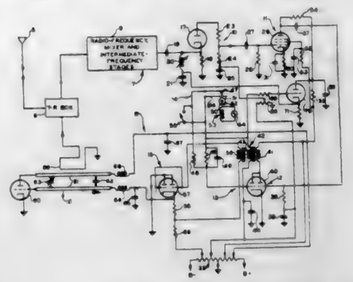
1. In a contact device, in combination, a carrier having a through slot therein and having in said slot oppositely disposed end projections which are aligned endwise but spaced apart, a helical spring mounted on said projections and a contact receivable between said projections and perforated to slide onto one of said projections, said carrier having an entrance for an end of said contact into said slot beyond an end of said spring thus to enable said contact to be used to push said spring off of one of said projections for insertion of said contact between said projections and alignment of the perforation of said contact with the projection from which the spring has been removed.

2,532,306
ARTICLE CARRYING DEVICE
Oscar A. Herbert, Hollywood, Calif.
Application April 29, 1947, Serial No. 744,579
11 Claims. (Cl. 224—49)



1. An article carrying device, including: a plurality of straps secured to each other to form a sling for the reception of articles to be carried; means supported solely by means of said plurality of straps and operable for constricting the sling into clamping relation to the articles therein; and means fixed on said straps for holding the first mentioned means in sling constricting position so that the articles will be confined in the sling when the device is suspended by the person carrying it.

2,532,307
SIGNAL RESPONSIVE SYSTEM
Gerard C. Hess, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War
Application July 29, 1944, Serial No. 547,242
9 Claims. (Cl. 250—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a responder for a radio beacon, in combination: receiving apparatus, including at least a detector and an amplifier, receptive of interrogating signals from craft seeking to "home" on the beacon; normally inoperative transmitting apparatus adapted to generate "homing" signals; an antenna system common to said receiving and transmitting apparatus; modulating apparatus, responsive to the output of said receiving apparatus, for keying said transmitting apparatus; and means, receptive of a portion of the output of said modulating apparatus, for decreasing the power normally supplied to said amplifier to reduce the sensitivity of said receiving apparatus in synchronism and for periods at least coextensive

with the operating periods of said transmitting apparatus, whereby said transmitting apparatus is prevented from triggering itself.

2,532,308

PROCESS OF RECOVERING COPPER OXIDE AND A D-TARTRATE FROM A SPINNING SOLUTION

Hugo Hofmann, Elizabethton, Tenn., assignor, by mesne assignments, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York

Application August 8, 1946, Serial No. 689,150
2 Claims. (Cl. 106—167)

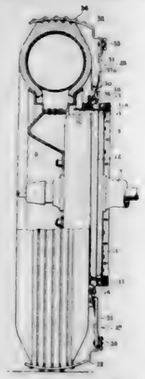
1. The process of recovering a mixture of copper oxide and a tartrate from waste solutions occurring in the manufacture of rayon involving the extrusion of a cuprammonium cellulose spinning solution containing d-tartaric acid in the form of ammonium d-tartrate into funnels in which slightly alkaline water is continuously circulated to form cellulose filaments and alkaline blue water as a waste product, combining said filaments to form a filament bundle, treating the filament bundle with an acid to extract copper therefrom in the form of a soluble copper salt and with the formation of a waste acid containing said copper salt, d-tartaric acid and an ammonium salt, which comprises the steps in sequence of mixing said blue water with said waste acid at a pH of about 6.4 to 7.8 whereby a slurry containing essentially copper hydroxide and ammonium tartrate together with a supernatant solution containing essentially a salt formed by chemical interaction of said acid with ammonia contained in said cuprammonium cellulose solution is produced, allowing said slurry to settle and removing supernatant solution therefrom, further concentrating said slurry and further removing said supernatant solution therefrom, treating the thus concentrated slurry with caustic at an elevated temperature at a pH of about 10.5 to 11 to convert copper hydroxide into copper oxide while substantially retaining the d-tartrate therewith, and dissolving said copper oxide and d-tartrate in an acid to form a stock solution for utilization in the preparation of the cuprammonium cellulose spinning solution.

2,532,309

ANTISKID DEVICE FOR MOTOR VEHICLES

Edward J. Hoffman, William G. Hardy, and Adam J. Fries, Pittsburgh, Pa.

Application April 14, 1948, Serial No. 21,078
14 Claims. (Cl. 152—214)



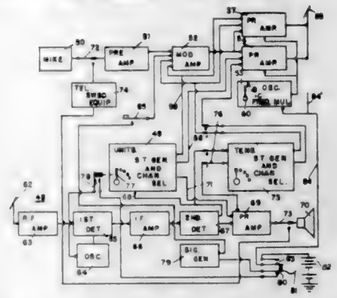
11. Antiskid apparatus for vehicle wheels, comprising cleats each having a free end adapted to be moved across the tread of a tire, a radially-extending arm connected to the other end of each cleat, a supporting member upon which the inner ends of the arms are pivotally mounted, and which is supported for free rotative movement about the axis of the wheel when the cleats are free of engagement with the tire tread, means yieldably urging the arms in a direction to move the cleats through arcuate paths into crosswise engagement with the tire tread, the cleat arms being held against radially outward movement when the cleats are on the tire tread but being flexible toward the axis of the wheel to allow radially-inward movement of the cleats upon deflation of the tire, and a manually-controlled device for rocking the cleats out of engagement with the tire tread in opposition to said yielding means, and for restraining rotative movement of the supporting member when the cleats are disengaged from the wheel tread, and no cleat is engaged between the tire and the road.

2,532,310

TIME-DIVISION MULTIPLEX RADIOPHONE SYSTEM

John H. Homrighous, Oak Park, Ill.

Application July 24, 1947, Serial No. 763,251
32 Claims. (Cl. 250—9)



3. In a radio communication station, means to produce successive timing waves, means including a multi-position dial switch and associated circuits controlled thereby to select an outgoing channel comprising a certain period of time in each of the said timing waves and an incoming channel comprising another period of time in each of the said timing waves, means to produce a carrier wave, means to modulate said carrier wave with signaling current signals, means to modulate said carrier wave, following signaling current signal modulation, with message signals representative of a first message, means to transmit portions of said modulated carrier wave through said outgoing channel, and means to receive other message signals representative of a second message in answer to said first message through said incoming channel.

2,532,311

GAS PHASE HYDROGENATION OF DIHYDROMUCONONITRILE TO ADIPONITRILE

Benjamin W. Howk and Mark W. Farlow, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 7, 1948, Serial No. 37,510
8 Claims. (Cl. 260—465.8)

1. A process for preparing adiponitrile which comprises contacting a vaporous mixture comprising a 1,4-dicyanobutene and at least one mole of hydrogen per mole of dicyanobutene, at a pressure of from 0.5 to 5.0 atmospheres and at a temperature of from 200° to 350° C., with a palladium catalyst.

2,532,312

HYDROGENATION OF DICYANOBUTENE TO ADIPONITRILE

Llewellyn E. Romilly, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 7, 1948, Serial No. 37,511
12 Claims. (Cl. 260—465.8)

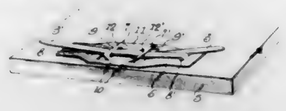
1. A process for preparing adiponitrile which comprises contacting a 1,4-dicyanobutene in the liquid phase at a temperature of from 25° to 200° C. with at least 1 mole of hydrogen per mole of 1,4-dicyanobutene in the presence of a palladium catalyst.

2,532,313

PAPER FILE FASTENER

Frank L. Innacelli, Red Bank, N. J.

Application March 28, 1946, Serial No. 657,736
3 Claims. (Cl. 24—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



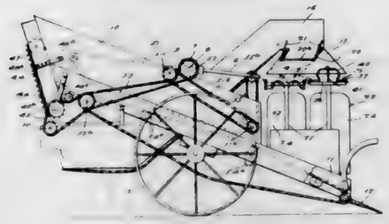
2. A paper file fastener comprising a base member provided with spaced tongues, and a compressor plate cooperating with the base member and provided with terminal apertures arranged to receive the said tongues and dual locking devices formed integrally on the compressor plate intermediate the terminal apertures substantially equidistantly therefrom, the locking devices comprising flaps bent outwardly from the compressor plate along a connecting edge extending in opposite directions and having slots therein through which the tongues are threaded in opposed relation and in frictional contact with each other.

2,532,314

POTATO HARVESTING MACHINE

Carl E. Johnson, Idaho Falls, Idaho

Application April 20, 1944, Serial No. 531,909
5 Claims. (Cl. 55—51)



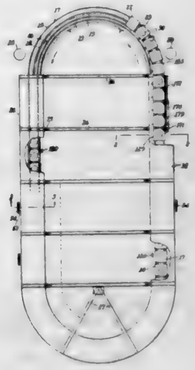
1. A potato harvester including a frame a digger carried by said frame, an elevator supported on said frame rearwardly adjacent to said digger, a second elevator supported on said frame disposed generally parallel to but oppositely inclined to said first elevator, a transverse conveyor carried by said frame extending from the discharge end of said first elevator and delivering to the lower end of said second elevator, a separator carried by said frame interposed between the conveyor and said second elevator and overlying the lower end of the latter, an endless vine removing unit pivotally and adjustably secured to said frame adjacent the upper end of the first elevator for removing vines before the elevator's contents are delivered to said conveyor, said separator including a rotatable helix between said conveyor and said second elevator, and means drivingly interconnecting said first elevator, said second elevator, said conveyor, said separator, and said vine removing unit.

2,532,315

APPARATUS AND PROCESS FOR EVACUATING ELECTRONIC TUBES AND THE LIKE

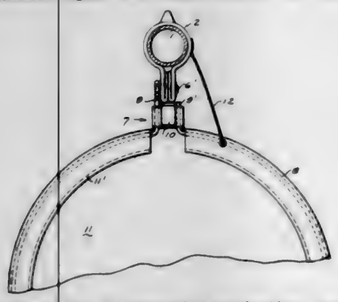
Merriam E. Johnson and Horace G. Warren, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 2, 1949, Serial No. 85,204
20 Claims. (Cl. 316—30)



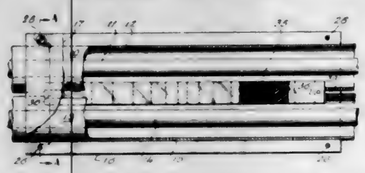
1. In apparatus for evacuating in continuous fashion vacuum tubes having metallic elements therein, guiding means, vacuum tube heating means positioned adjacent said guiding means, a plurality of movable members adapted to move along the guiding means, means for moving the movable members, each movable member carrying apparatus comprising an independent vacuum pumping system adapted to evacuate a vacuum tube attached thereto during travel of the movable member, means for supporting the vacuum tube being evacuated in heating relation with the tube-heating means during travel of the movable member, individual means mounted on each movable member for inductively heating the metallic elements of the vacuum tube during travel of said movable member along said guiding means, means carried by each movable member for supplying an energizing current for the tube elements, and means positioned adjacent the guiding means and in the region of said tube heating means for selectively and sequentially operating the tube energizing and inductive heating means during travel of the moving member and while the tube is in heating relation with the heating means.

2,532,316
AUTOMATICALLY RELEASABLE COVER FOR AIRCRAFT PITOT TUBES
George R. Larkin, Dayton, Ohio
Application August 2, 1948, Serial No. 42,122
9 Claims. (Cl. 150—52)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cover for a forwardly projecting member carried on an aircraft comprising, a fabric cover body adapted to enclose the free end of said forwardly projecting member, latching means for retaining said cover body in member-enclosing relation, and air pressure responsive means adapted to automatically release said latching means upon forward movement of said aircraft after reaching a predetermined rate of speed.

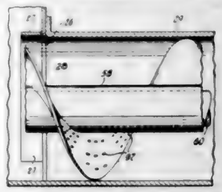
2,532,317
ULTRA HIGH FREQUENCY COUPLER
Oscar Lundstrom, Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application August 25, 1947, Serial No. 770,474
15 Claims. (Cl. 178—44)



15. An ultra-high-frequency energy directional coupler comprising a first section of transmission line, a second section of transmission line oriented parallel to said first section and having a common wall section therewith, said common wall section having an axially directed slot, a dielectric strip member mounted in said slot and a plurality of spaced coupling elements supported by said dielectric member.

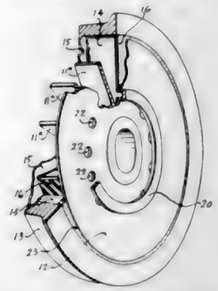
2,532,318
BLOWING MACHINE
William H. Mackey, Teaneck, and Archibald L. Wedebrock, Westwood, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application November 17, 1945, Serial No. 629,268
6 Claims. (Cl. 302—50)

3. A blowing machine for insulation and like fibrous material comprising a hopper for receiving said material, a blower, a discharge conduit leading from the blower, a passageway leading from said hopper and connecting into said conduit, a screw conveyor extending from said hopper into said passageway for conveying said material from the hopper to the conduit, and integral projections struck up from the material of



a flight of said conveyor within said passageway to retard movement of the material along said flight.

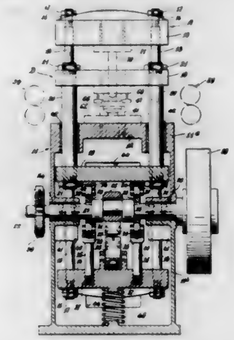
2,532,319
ENCLOSED RESILIENT WHEEL
James Matthew MacLean, Detroit, Mich.
Application December 7, 1946, Serial No. 714,743
12 Claims. (Cl. 295—11)



1. A wheel of the class having a rim member, a hub member, and a web component of comparatively large radial depth with respect to the radial depth of the rim and hub members and extending therebetween, wherein the web component comprises: blades extending radially from each of said members toward the other in intermeshing relationship, each blade being of substantial length but slightly less than the radial depth of the web component, a plate enclosing each side of the web component joined to one member and extending toward but spaced from the other, and a resilient filler disposed between adjacent blades of the rim and hub members and extending radially for at least the entire overlapping surfaces of the blades to space one member and its blades and side plate from physical contact with the other member and the blades thereof.

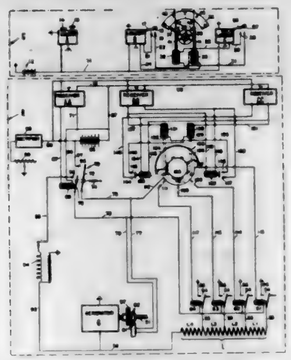
2,532,320
BLANKING AND DRAWING PRESS
Frederick K. Maussnest, Queens Village, N. Y., assignor to Hedwig Maust, Queens Village, N. Y.
Application February 17, 1948, Serial No. 8,815
9 Claims. (Cl. 113—42)

1. In a press of the character described, a main frame, a drawing slide, a coactive blanking slide, a press bed located below both said slides and forming part of said main frame, a blanking cross-head located underneath said press bed, tubular means for connecting said blanking cross-head and said blanking slide; a drawing cross-head positioned below said blanking cross-head, cylindrical draw-rods for connecting said drawing cross-head and said drawing slide, said cylindrical draw-rods being guided in said tubular connecting means; common driving means located between said blanking and said drawing cross-heads for reciprocating said blanking slide and said drawing slide in predetermined



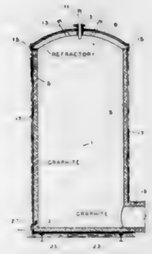
timed relation to one another, adjustable guiding means associated with said main frame and in sliding engagement with said blanking slide to maintain alignment between said press bed and said blanking slide.

2,532,321
ELECTRIC BRAKING SYSTEM
Frank McCurtain, Los Angeles, Calif., assignor to Wendell R. McKenzie, Montebello, Calif.
Application May 20, 1947, Serial No. 749,395
18 Claims. (Cl. 172—285)



1. In a braking system including an electric generator connected to a vehicle to be braked to provide a braking load thereon, a resistance load connected in the circuit of said generator, and switch means to cut said resistance in and out of the circuit in increments, control means comprising: means to actuate said switch means to add and to withdraw resistance including a signal responsive unit responsive to a signal of one frequency to effect the addition of resistance and a second signal responsive unit responsive to a signal of a second frequency to effect the withdrawal of resistance, signal sending means physically spaced from said responsive units adapted selectively to send signals to effect responses in each of said units, and means to indicate to the operator the braking adjustment at any given time.

2,532,322
PHOSPHORUS COMBUSTION FURNACE
Charles J. McFarlin, near Sheffield, Ala., assignor to Tennessee Valley Authority, a corporation of the United States of America
Application June 1, 1946, Serial No. 673,885
2 Claims. (Cl. 23—277)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a phosphorus combustion furnace comprising a combustion chamber having an outlet for hot combustion gases adjacent to an end thereof, a burner adapted to burn phosphorus disposed in said chamber adjacent to an end thereof farthest from said outlet, and means for introducing air in quantity sufficient to maintain an oxidizing atmosphere within said chamber disposed adjacent to said burner, that improvement which comprises, in combination, a container for a pool of water; supporting members disposed in said container; a flat metal pan disposed in said container adapted to be supported by said supporting members in intimate contact with said pool of water in said container; a circular hearth floor formed of a single thickness of graphite blocks disposed in said metal pan; a vertical cylindrical wall formed from a single thickness of graphite blocks disposed upon the periphery of said hearth floor; a substantially dome-shaped top disposed upon said cylindrical wall to cooperate with said wall and said hearth floor to enclose a vertical combustion chamber having a ratio of height to diameter of from 2:1 to 3:1; a burner adapted to burn phosphorus centrally disposed in said combustion chamber adjacent to said top; an outlet for hot combustion gases disposed adjacent to said hearth floor; and means for continuously flowing a film of water of substantial thickness downward over the exterior surface of said wall disposed adjacent to the exterior of said chamber.

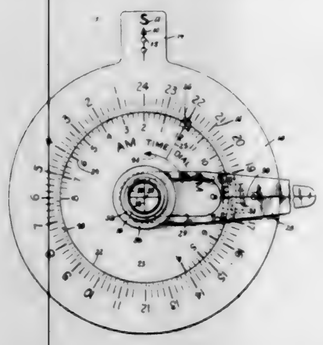
2,532,323
BULLET
George A. Miller, Jr., Weirsdale, Fla.
Application March 30, 1942, Serial No. 436,818
7 Claims. (Cl. 102—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

7. A projectile comprising a tubular body portion, a jacket fitted over and completely inclosing the side walls of said body portion and tapering to an ogive forwardly of said body portion, the wall of said jacket being weakened by a reduction in wall thickness forwardly of said body portion, a charge in said ogive, a boattailed rear end on said tubular body portion, a

closure cup with a skirt complementary to said boat-tailed end and nesting therewith and with

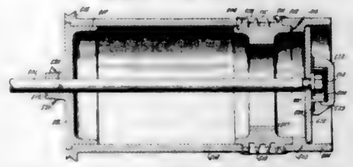
the jacket, said jacket being turned over the base of said closure cup.

2,532,324
STAR WATCH
Harry B. Milligan, Waveland, Ind.
Application November 5, 1948, Serial No. 58,540
8 Claims. (Cl. 235—83)



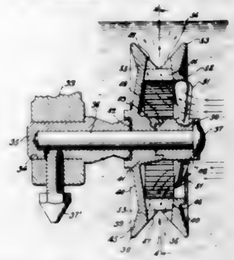
7. In a device of the class described, a sky dial provided with a graduated circular scale and with a view port located at the center of said scale, indicator means associated with said sky dial for orienting the device relative to the visible celestial dome, a time dial assembled with said sky dial for rotation relative thereto about said center and provided with a graduated arcuate scale concentric with said first-named scale, a pointer assembled with said dials for rotation relative thereto about said center and adapted to be aimed at any selected celestial body when said sky dial is properly oriented and positioned to permit the user to view Polaris through said view port, said time dial being shiftable to align with said pointer that graduation of the time dial scale corresponding to the standard time at the moment of adjustment, and indicator means moving with said time dial relative to said sky dial and positioned on said time dial to indicate the position which will be occupied by said selected body at midnight, standard time.

2,532,325
APPARATUS FOR TREATING YARN
Herbert O. Naumann, Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application June 3, 1943, Serial No. 489,552, which is a division of application Serial No. 450,934, July 14, 1942. Divided and this application August 6, 1945, Serial No. 609,172
5 Claims. (Cl. 68—205)



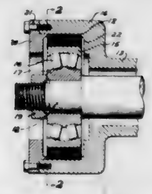
2. Apparatus for the treatment of wet spun synthetic thread and the like, including a driven thread-advancing thread-storage cylinder comprising a plurality of cylindrical sections made of a dense carbon and graphite composition impermeable and resistant to thread-treating liquids, said sections being retained in co-axially assembled relation, at least one of said sections being provided with liquid conveying grooves and with bridging members over said grooves adapted to permit smooth uninterrupted passage of thread over the section containing said grooves said sections being retained in said assembled relation by compression axially and in shear relation vertically.

2,532,326
FLUID CIRCULATING THREAD GUIDE ROLLER
Herbert O. Naumann, Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application August 17, 1945, Serial No. 611,005
3 Claims. (Cl. 68—175)



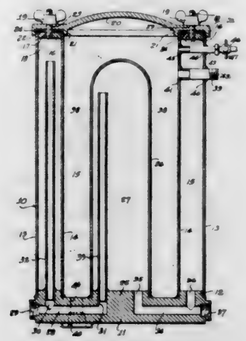
1. A guide roller for the liquid treatment of multi-filament high denier high strength synthetic thread comprising an interiorly hollow pulley-like body formed of two mutually facing members each having lug-like portions extending laterally from one side at a distance below the edge, the lug-like portions of one member interfitting in alternate relation between those of the other member to provide a plurality of closely spaced radial slit-like passages leading to the internally hollow portion of the roller, the walls of the members above said lugs serving to provide flanges defining a thread receiving groove, the tops of the lugs constituting the floor of said groove, impeller blades integrally incorporated with one of said members below the lugs thereon, openings in said roller coaxial with the axis of rotation of the roller for admitting liquid from a portion of a bath remote from said groove to said impeller blades when said roller is submerged, said blades being adapted to force said liquid under pressure through said slit-like passages and into contact with and through thread reposing on the floor of said groove.

2,532,327
BEARING
Walter J. Parks, Aurora, Ohio
Application June 26, 1948, Serial No. 35,433
8 Claims. (Cl. 308—184)



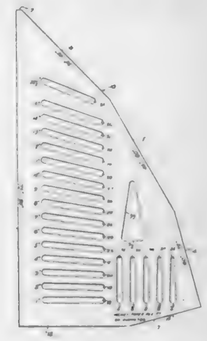
1. A bearing mounting structure comprising a support member and a cylindrical bearing member, one of said members being disposed within the other and spaced therefrom, and a body compactly interposed between said members and comprising at least one spirally wound coil of substantially incompressible material having adjacent surfaces of the convolutions in contact and arranged with said surfaces extending parallel to the axis of the bearing and being displaceable relative to one another axially of the bearing member, whereby substantially all radial movement between the support and bearing member is prevented.

2,532,328
BEVERAGE COOLER
Jackson W. Penning, Roseville, Mich.
Application April 11, 1946, Serial No. 661,401
7 Claims. (Cl. 62—141)



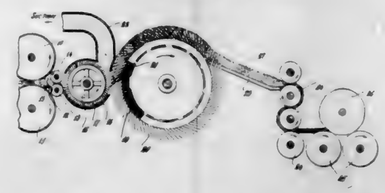
1. A beverage cooler comprising a base member, an annular outer refrigerant container connected to said base member, a central refrigerant container likewise connected to said base member, the walls of said refrigerant containers defining a beverage chamber therebetween, means for supplying refrigerant to said refrigerant containers, and removable closure means engaging the open end of said beverage chamber, said base member having a beverage outlet passageway therethrough.

2,532,329
ANGLE LAYOUT AND CHECKING INSTRUMENT
Owen D. Premo, Muskegon Heights, Mich.
Application March 28, 1947, Serial No. 737,921
1 Claim. (Cl. 33—104)



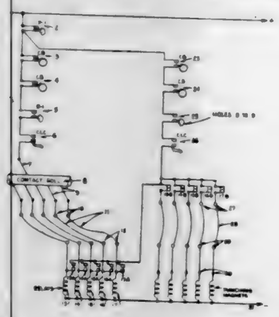
An angle layout and checking instrument for laying out and measuring angles comprising a polygonal plate-like member having an altitude edge, a base edge perpendicular to said altitude edge, one of said edges constituting a reference edge, an oblique base edge inclined at an angle of fifteen degrees relatively to said perpendicular base edge, a lower hypothenuse edge perpendicular to said oblique edge, a middle hypothenuse edge inclined at an angle of fifteen degrees relatively to said lower hypothenuse edge, an upper hypothenuse edge inclined at an angle of fifteen degrees to said middle hypothenuse edge, and a set of fifteen rectilinear angle guides disposed in fixed locations within said member and inclined at progressively increasing angles relatively to said reference edge by increments of one degree between adjacent guides.

2,532,330
EVENER FOR COTTON PICKERS
Thomas S. Ramsdell, Great Barrington, Mass.
Application February 15, 1945, Serial No. 577,964
16 Claims. (Cl. 19—156)



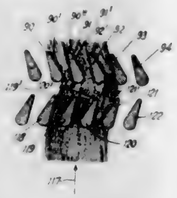
1. The method of forming a substantially homogeneous picker lap, which method comprises subjecting a fibrous web as it comes from a picker to a picking and thickness reducing action to provide a web which is much thinner than that delivered by the picker, transferring without packing said thinned web to a condensing means moving at a much slower rate than that at which the web is fed thereto so that the web will accumulate and build up in thickness on said condensing means and mechanically removing and carrying off with the aid of suction the fibers in excess of those required to form a deposit of substantially uniform depth on the condensing means.

2,532,331
PUNCHING CIRCUIT
Ernest Rose, United States Navy
Application January 5, 1946, Serial No. 639,394
5 Claims. (Cl. 164—115)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



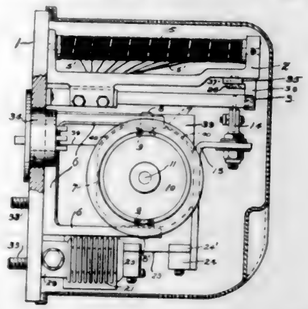
1. A machine for reproducing perforated records in which all blanks in a pattern card are reproduced as perforations and all perforations as blanks in the resultant record comprising means for sensing perforations in a pattern card, punching magnets energizable when a blank space is sensed, and means responsive to energization by said sensing means for selectively rendering inoperative certain ones of the punching magnets when a perforation is sensed.

2,532,332
SEPARATOR
Will H. Rowand, Madison, N. J., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application May 31, 1946, Serial No. 673,290
5 Claims. (Cl. 183—75)



2. In a gas and liquid separator, successive spaced rows of transversely spaced elements of airfoil type cross section extending across a high velocity fluid stream, said elements having their major transverse axes disposed at an angle of from 15° to 27° to the general direction of flow of the approaching fluid stream, at least the major portions of the downstream faces of each of said elements being disposed at an angle to said general direction of the approaching stream greater than the angle made by said major transverse axes with said general direction, this construction and arrangement setting up on the downflow sides of said elements eddy current zones of lower pressures in which the said particles are separated from the fluid, said airfoil elements in each row being of tapering section with their portions of maximum thickness near their edge portions confronting the oncoming fluid stream.

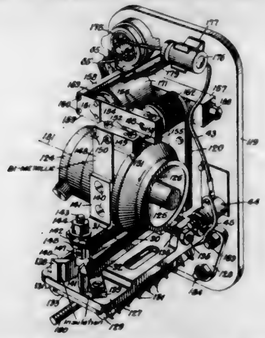
2,532,333
GYROSTABILIZER
Jeff Smith Rhyne, Detroit, Mich., assignor to the United States of America as represented by the Secretary of War
Application February 18, 1943, Serial No. 476,296
9 Claims. (Cl. 74—5.22)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In apparatus for stabilizing a pivotally-mounted object angularly about its mounting axis and wherein power means is arranged to apply forces to the object about the mounting axis to oppose angular motion thereof about such axis, a gyro including a support, a frame or casing pivotally carried by the support about a precession axis, and a rotor journaled in the frame or casing; means for mounting the support for angular movement with the object as the latter moves about its mounting axis with the precession axis normal both to the axis of angular movement of the support and to the rotor spin axis and with the latter axis extending transversely of the axis of angular movement of the support so that angular velocity of the latter about its axis of angular movement is accompanied by proportional torque of the gyro about the precession axis; a control device for the power means and including an actuated member and an actuating member movable from mid-position relative to the actuated member to control the direction and magnitude of force applied by the power means to the object; an element unitary with the support and upon which said actuated member is mounted; and means for connecting the gyro frame or casing to the actuating member with the latter eccentric to the precession axis so that torque about the latter is effective for operation of the actuated member to control the power means to apply force opposing motion of the object about its mounting axis in response to the velocity of such motion.

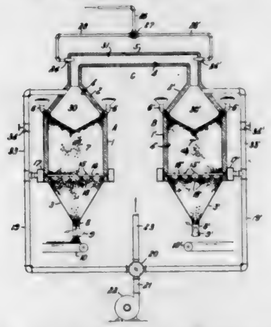
2,532,334
GYROSTABILIZER
Jeff Smith Rhyne, Marianna, Fla., and Richard E. Holmes, Milton, Mass.
Application July 15, 1947, Serial No. 761,126
5 Claims. (Cl. 89—41)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. A stabilizer comprising a support pivotally mounted on a horizontal axis, a gyroscope carried by said support and having a gimbal frame on a vertical precession axis and a flywheel on a horizontal spinning axis, a resistor carried rigidly by said support and including spaced contactor blades, an actuator carried by said gimbal frame and extending to a position adjacent to said blades and adapted to engage said blades on precession of the gyroscope, and a mass attached



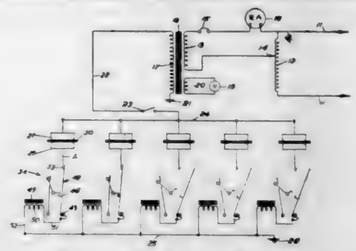
to said gimbal frame laterally of the plane of said precession and spinning axes.

2,532,335
PROCESS FOR HEAT-TREATING SOLIDS
Percy H. Royster, Raleigh, N. C., assignor to Pickands Mather & Co., Cleveland, Ohio, a co-partnership
Application July 3, 1945, Serial No. 602,988
5 Claims. (Cl. 75—5)



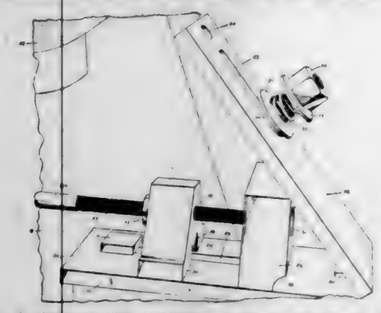
1. Process of indurating consolidated masses, such as briquets, spheres, pellets, or the like, consisting of moist oxidic iron ore fines and similar finely divided metallurgical materials preparatory to reduction of the iron oxides in a reduction furnace such as a blast furnace, involving heating such pellets to an elevated temperature at which induration of the pellets occurs, which comprises establishing two substantially vertical gas-traversable columns of previously indurated pellets which columns are relatively shallow with respect to their cross-sectional area, maintaining at least the top portion of at least one of said columns, called the first column, at substantially indurating temperature, periodically adding a layer of raw moist pellets to the top of the other column, called the second column, said layer being limited in vertical height so as to avoid crushing therein, passing a current of air upwardly through at least the upper portion of the first column whereby to transfer heat from hot pellets therein to the air current, burning a fuel in the so-preheated air, after the same has traversed said first column, in quantity sufficient to raise the temperature of the air to indurating temperature, passing the so-heated air and products of such combustion downwardly through at least the upper portion of the second column, in the ratio of from about 8 to about 15 cubic feet of the heating gas per each 1 pound of initially raw moist pellets in said layer, whereby promptly to raise the temperature of the freshly charged layer of initially raw moist pellets therein by heat transfer from the heated gaseous current to and through the water-vaporizing temperature to indurating temperature, exhausting the resulting cooled gas to atmosphere, terminating the passage of gas serially through said first and second columns before the bottom portion of the second column has become materially heated, removing a layer, of limited thickness of indurated and cooled pellets from the bottom of said first column and adding a like volume of raw moist pellets to the top of said first column, passing a current of air upwardly through at least the upper portion of said second column, burning a fuel in the so-preheated air current, after the same has traversed said second column, in quantity sufficient to raise its temperature to indurating temperature, passing the so-heated current of gas downwardly through at least the upper portion of said first column, in the ratio of from about 8 to about 15 cubic feet of the heating gas per each 1 pound of initially raw moist pellets in the layer so added, whereby promptly to raise the temperature of the top layer of initially raw moist pellets therein by heat transfer from said heated gaseous current to and through the water-vaporizing temperature and to indurating temperature, exhausting the resulting cooled gas to atmosphere, terminating the passage of gas serially through said second and first columns before the bottom portion of said first column has become materially heated, and repeating the alternation of steps.

2,532,336
DIELECTRIC TEST APPARATUS
Anthony Rufolo, New York, N. Y.
Application April 20, 1945, Serial No. 589,447
3 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



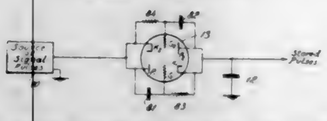
1. An electrical system for testing the dielectric properties of insulating material, said system including a power-input circuit and a power-utilization circuit; said power-utilization circuit comprising a feeder line, a return line, a plurality of pairs of electrodes connected in parallel between said feeder line and said return line, each pair of electrodes being adapted to have a test specimen disposed therebetween, said electrodes and test specimen under normal conditions forming a static condenser, a plurality of circuit breakers one in series with each of said pairs of electrodes between said feeder line and said return line, each circuit breaker being connected for actuation by current flow through its corresponding pair of electrodes to break the circuit through the pair of electrodes between said feeder line and said return line; and a recording time galvanometer in one of said circuits for recording the time of current flow through a specimen.

2,532,337
FIXTURE FOR GRINDING CUTTERS
Ralph Sabatini, Rego Park, N. Y.
Application September 26, 1945, Serial No. 618,802
3 Claims. (Cl. 51—218)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



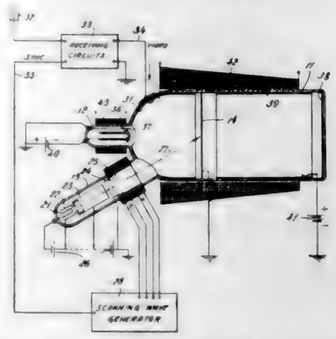
1. A fixture for holding a piece of work in a machine having a tool for operating upon the work, said fixture comprising a base having an elongated slot formed therein and adapted to have a bolt extend therethrough to lock said base to the machine in selected position of adjustment; a holder having an elongated adjustment slot therein, said holder being hinged to said base and adapted to extend toward the tool; means for securing a piece of work relative to said holder including a bolt extending through the holder adjustment slot in selected position and adapted to have a piece of work mounted thereon adjacent said holder; and means for regulating the position of said holder relative to said base including a bracket mounted on said base, a shaft threaded through said bracket and extending towards said holder, a stop on said shaft adapted to move relative to said holder upon turning of said shaft, said holder being mounted for free swinging movement in one direction away from the stop and for swinging movement in the other direction into contact with said stop.

2,532,338
PULSE COMMUNICATION SYSTEM
Kurt Schlesinger, New York, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application November 15, 1945, Serial No. 628,847
4 Claims. (Cl. 250—27)



1. In pulse signaling, apparatus for producing a stored modulation signal output which comprises a source of amplitude modulated signal pulses, a storage capacitor, a circuit including a plurality of electronic tube sections connected between said source and the storage capacitor providing paths for the flow of current therebetween in either direction, means for deriving keying pulses from said signal pulses and applying the keying pulses to said circuit to allow flow of current between said source and capacitor during said signal pulses, said paths being of sufficiently low conductance between said keying pulses to allow substantial storage of charges on the storage capacitor, whereby a stored signal output of amplitude varying in accordance with the signal pulse amplitudes may be obtained.

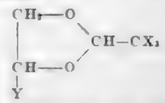
2,532,339
CATHODE-RAY TUBE RECEIVING SYSTEM
Kurt Schlesinger, New York, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application May 9, 1946, Serial No. 668,453
19 Claims. (Cl. 315—13)



1. In a cathode-ray tube system for reproducing image signals, the combination which comprises a bidimensional foraminous grid of substantial area having a secondary-electron emissive charge-storage surface on one side thereof, a source of a scanning electron beam positioned to direct the beam toward said one side of the grid, deflection means for deflecting the scanning beam in two dimensions to scan an area of the grid, a collector positioned to collect secondary electrons liberated from said grid by the scanning beam, circuit connections for modulating the potential of said collector in accordance with an image signal to produce a charge image on said grid, a source of a low velocity flooding electron beam positioned and adapted to direct electrons to said grid in a broad beam of substantial cross-sectional area, and target means for utilizing flooding electrons passing through said grid under the control of the charge image thereon to produce an image.

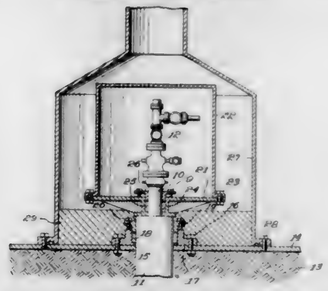
2,532,340
2-TRIHALOMETHYL-1,3-DIOXOLANE-4-CARBOXYLIC ACIDS AND DERIVATIVES THEREOF
Elmer F. Schroeder, Chicago, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application January 28, 1948, Serial No. 4,930
12 Claims. (Cl. 260—338)

1. A new composition of matter having the structural formula



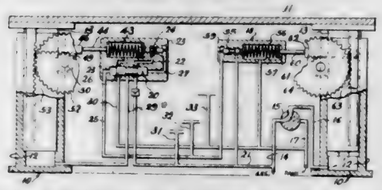
wherein X is halogen of the group consisting of chlorine and bromine and Y is a member of the group consisting of carboxyl, carboxylic acid salt, carboxylic acid amide and carboxylic acid ester radicals.

2,532,341
CAP FOR MARINE OIL WELLS
Joseph Shannon, Beaumont, Tex.
Original application March 20, 1947, Serial No. 735,832. Divided and this application February 8, 1949, Serial No. 75,187
3 Claims. (Cl. 166—14)



1. In an undersea oil pipe head arrangement, the combination with an outer casing, an oil pipe positioned within said casing and provided with outlet fittings on its upper end, a bottom piece supported by the sea bottom, a base supported on the top of said casing, a cover supported by said base and detachably secured to the latter for enclosing said outlet fitting, and a concrete foundation surrounding said outer casing and supported on said bottom piece.

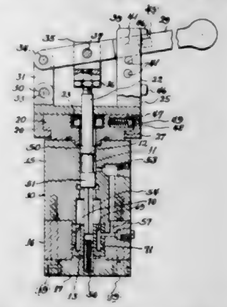
2,532,342
FLUID OPERATED LIFTING DEVICE
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 18, 1947, Serial No. 792,393
10 Claims. (Cl. 60—97)



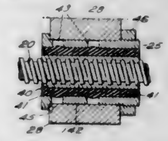
2. In a fluid operated lifting device, load supporting means comprising a plurality of fluid operated lifting jacks, means for controlling operation of said jacks and causing them to maintain level support including a fluid pressure line, a valve for controlling the admission of fluid under pressure from said pressure line to one of said jacks, separate valve means individually associated with each of said jacks, each such valve means being operatively responsive to a predetermined vertical movement of its associated jack, and a shuttle valve operated by said valve means for supplying fluid to or releasing fluid from or holding fluid in the other of said jacks, depending upon the rate of movement of said other jack with respect to said first jack.

2,532,343
HYDRAULIC CONTROL VALVE
Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 5, 1947, Serial No. 726,644
5 Claims. (Cl. 277—11)

1. In a hydraulic control valve, a casing having a valve chamber extending therealong, a piston valve rectilinearly movable along said valve chamber, a valve rotor within said valve chamber and spaced from said piston valve, said piston valve including a valve rod having a plurality of pistons thereon and said valve rod having an irregular portion having slidable engagement with said valve rotor for turning said rotor upon turning movement of said piston valve when said piston valve is in its various operative positions, and said valve casing having pressure and relief passageways leading into and out of said valve chamber and arranged to supply or release fluid from either of said valves when the other is in an operative or a neutral position.



2,532,344
FEED SCREW MOUNTING FOR PERCUSSION DRILLS
William G. Smith, Portland, Oreg.
Application June 1, 1948, Serial No. 30,365
2 Claims. (Cl. 287—85)

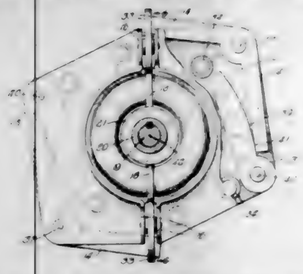


1. In a shock absorbing nut mounting for the feed screw of a percussion drill, a uniform outer surface for the nut, a sleeve therefor substantially larger in internal diameter than the diameter of the nut, characterized by said sleeve being provided with a plurality of staggered circumferential through, elongated slots, the slotted area being spaced from each end of the sleeve and the total area of the slots being of the same general order as that of the lands between them, and a resilient rubber cushion between the nut and the sleeve and firmly vulcanized to both parts leaving the slots of the sleeve unfilled with rubber.

2,532,345
SPEED GOVERNOR FOR MOTORS
Charles H. Sparklin, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application February 28, 1945, Serial No. 580,114
29 Claims. (Cl. 200—80)

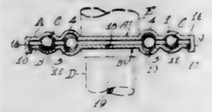
1. A speed governor for a motor having a shaft and comprising a rotatable plate attached at right angles to the shaft, a plurality of arms hingedly attached at one end to the plate and lying substantially in the plane of rotation, a plurality of bell cranks mounted on said plate each contacting one of said arms at one end of the bell

crank, a plurality of second bell cranks each mounted substantially at right angles to one of the first bell cranks and contacting the other ends of the first bell cranks, and a make and break electrical contact mechanically connected



to the other ends of said second bell cranks for breaking electrical contact to the motor when centrifugal forces in said arms exceed a certain predetermined value and making electrical contact when said forces fall below said value.

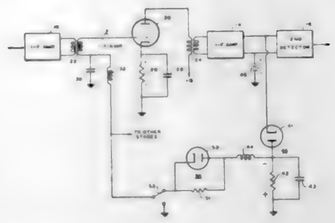
2,532,346
MECHANICAL SILENT TAPPET
Clifton L. Stancliff, Bakersfield, Calif.
Application June 18, 1946, Serial No. 677,552
13 Claims. (Cl. 123—90)



9. A mechanical silent tappet comprising two wafer-like members arranged one above the other in confronting relation and movable into face-to-face contact so as to transmit thrust from one member directly to the other, and adapted to be interposed between operating and operated parts of a valve-actuating mechanism; the upper member having a depending annular flange on its periphery having a dust-tight and sliding telescoping fit with the periphery of the lower member; the flange defining a downwardly-facing opening at its bottom through which the lower member is insertable; camming means confined within the peripheries of the members for separating them when one member is rotated relative to the other in one direction; the camming means being shaped to gradually bring the members into sliding contacting relation with a spiral movement when the direction of rotation is reversed; and spring means for rotating the members in the direction to separate the members to maintain them continually in engagement with the operated and operating parts, respectively, of the valve-actuating mechanism.

2,532,347
RADAR RECEIVER AUTOMATIC GAIN CONTROL CIRCUIT
Edwin K. Stodola, Neptune, N. J., assignor to the United States of America as represented by the Secretary of War
Application July 26, 1944, Serial No. 546,726
3 Claims. (Cl. 250—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. In a pulse-echo object detection system wherein pulses of radio carrier wave energy are intermittently transmitted and echoes thereof received, the duration of said pulses being a minor fraction of the intervals therebetween, a carrier-wave channel having a number of cascaded stages each including a grid-controlled electron tube, a detector energized by the output of said channel and having a load circuit for deriving the modulation envelope of said output, means responsive to the output of said detector to control the amplification of a prior stage of the receiver, said last-named means comprising a capacitor connected between the



cathode and grid of the electron tube in said stage, a charging circuit between said load circuit and said capacitor, comprising a resistive path of such resistance that the time constant of said charging circuit is a minor fraction of the interval between pulses, but not more than ten times the pulse duration, and a discharging circuit for said capacitor comprising an electron discharge tube having at least a pair of electrodes so connected to said resistive path that the time constant of said discharging circuit is a minor fraction of that of said charging circuit.

2,532,348
BLOOD CLOTTING PREPARATION
Albert Szent-Gyorgyi, Woods Hole, Mass., and Kálmán Laki and Mihály Gerendás, Budapest, Hungary.
No Drawing. Application November 29, 1947, Serial No. 788,966. In Hungary December 12, 1946
3 Claims. (Cl. 167—65)

1. A blood-clotting composition consisting of an aqueous solution containing thrombin and catechin.

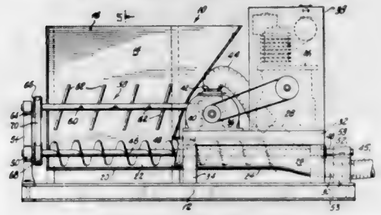
2,532,349
PESTICIDAL OR INSECT-REPELLENT FUMIGATING COMPOSITIONS
James Taylor, Saltcoats, and John Macfie Holm, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 25, 1947, Serial No. 757,070. In Great Britain August 14, 1946
7 Claims. (Cl. 167—40)

1. A fumigating composition consisting of a mixture comprising a thermally vaporizable pesticidal compound, at least one nitrogen-containing compound selected from the group consisting of nitroguanidine and guanidine nitrate, and a quantity of a thermal decomposition sensitizer of from 5% to 100% of the weight of the nitrogen-containing compound present, said quantity being sufficient to permit a self-sustained flameless thermal decomposition of said nitrogen-containing compounds in the presence of said pesticidal compound.

2,532,350
PRODUCTION OF INSOLUBILIZED PROTEIN ARTIFICIAL FILAMENTARY PRODUCTS
Robin Hamilton Kendall Thomson, Kilwinning, and Walter Anderson Caldwell, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 2, 1946, Serial No. 681,152. In Great Britain July 30, 1945
6 Claims. (Cl. 8—127.6)

1. A method for insolubilizing artificial filamentary products obtained by the spinning of aqueous alkaline solutions of vegetable seed globulins into acidified saline coagulating solutions which comprises treating the filamentary products having a solubility substantially the same as that immediately after coagulation at a temperature between 20° to 40° C. while in an untensioned condition in an aqueous bath comprising about 1 to 3 per cent formaldehyde and saturated with sodium chloride having a pH between 4 to 6, and immediately thereafter, treating the resulting products in untensioned condition at a temperature between 35° and 50° C. in an aqueous insolubilizing solution comprising formaldehyde and at least 30 parts of sodium chloride per 100 parts of water by weight having a pH below 1.

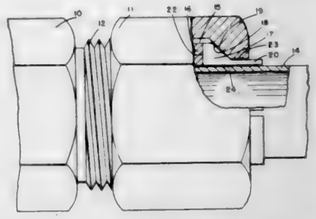
2,532,351
BLOWING MACHINE FOR INSULATION AND THE LIKE
Archibald L. Wedebrock, Westwood, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application June 2, 1945, Serial No. 597,303
7 Claims. (Cl. 302—50)



1. A blowing machine for insulation and the like comprising a hopper having relatively converging side walls, a blower, a discharge conduit leading from the blower, a restricted passageway leading from said hopper and forming a Y-connection with said conduit, a screw conveyor extending substantially the length of said hopper along the bottom thereof and closely adjacent one wall to leave a space between it and the opposite wall, said conveyor projecting into said passageway to deliver material from said hopper to said conduit, and means for rotating the screw conveyor toward said opposite wall.

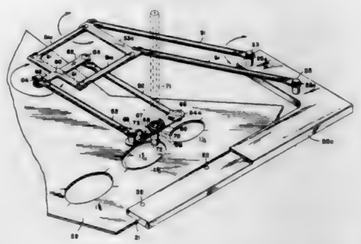
2,532,352
FLEXIBLE BUT SUPPORTED TUBE COUPLING SLEEVE
George V. Woodling, Cleveland, Ohio
Application March 18, 1949, Serial No. 82,226
1 Claim. (Cl. 285—122)

In a sleeve connection, a first sleeve having a bore adapted to closely receive an insertable member having a substantially cylindrical outer surface, said sleeve comprising a continuous annular body and a plurality of segmental contractible fingers integrally anchored to and extending away from the continuous annular body, said fingers at their anchored ends having provided thereon an external cam shoulder having a longitudinal length less than that of the fingers, the remaining part of said fingers extending away from the cam shoulder and constituting a flexible tail portion contractible inwardly about the insertable member, a second sleeve surrounding the first sleeve and having an internal clamping shoulder for engaging the cam shoulder on the first sleeve to contract the tail portion about the insertable member, said second sleeve having an



annular internal surface closely surrounding said tail portion and defining an annular clearance space therewith ranging from approximately 1 to 6 thousandths of an inch thereacross with the fingers in their uncontracted position, said tail portion having a thin wall thickness of less than 30 thousandths of an inch and being readily flexible upon vibration or other lateral movement of the insertable member, said annular internal surface of the second sleeve supporting said tail portion against excessive flexible movements and thereby preventing the thin wall of the tail portion from becoming deformed.

2,532,353
ELLIPSE GENERATOR
Paul F. Boehm, Greenwich, Conn.
Application October 18, 1945, Serial No. 623,002
7 Claims. (Cl. 33—30)

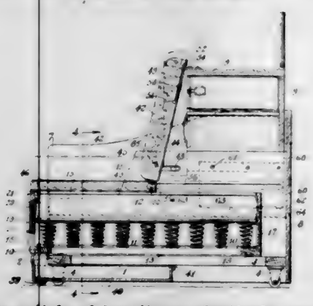


1. In a device for generating elliptic curves, in combination, an elliptically-shaped guiding element, and elliptically-shaped guided element, the ellipses of said elements being of the same elliptic proportions but differing in size from one another, means mounting said guided element for movement around said guiding element with the elliptically-shaped edges of said elements in contact with each other, and means for maintaining the major axes of said ellipses at all times parallel with respect to each other, whereby the axis of said guided element generates an ellipse concentric to the ellipse of said guiding element.

2,532,354
SLACK ADJUSTER AND STAY ATTACHMENT FOR FINGER RINGS
Jack Hirsh Bratman, Long Beach, Calif.
Application June 9, 1948, Serial No. 31,947
1 Claim. (Cl. 63—17)

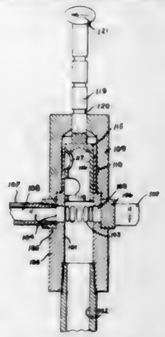
In a construction of the class shown and described, in combination, a finger ring having the usual semi-circular shank portion, and a readily applicable and removable ring guard, said ring guard being in the form of a coiled spring having its coils wrapped around said shank portion, said coils being of diameters greater than the cross-section of said shank and being light in weight and possessed of delicate resilient properties providing the desired slack take-up facilities and also providing comfortable cushioning properties adapted to promote comfort to the wearer, the endmost coils terminating in comparatively small, ball-shaped heads which minimize injury to the wearer's finger and facilitate the steps of attaching the guard to said shank and, whenever necessary or desired, removing it from said shank.

2,532,355
CONVERTIBLE BED, DRESSER AND DAVENPORT
William R. Brown, Cleveland, Ohio
Application March 27, 1947, Serial No. 737,461
4 Claims. (Cl. 5—2)



1. An article of furniture selectively convertible for use as a bed, dresser and davenport, comprising a main supporting frame having vertically disposed side and rear walls, a spring and mattress carrying bed frame slidably supported by and guided within the main frame permitting rearward and forward movement thereof, channel rails horizontally disposed and carried inwardly of and by said main frame side walls, a plurality of rollers aligned horizontally and carried by and within the channel rails, a dresser unit disposed above and transversely of the bed frame, supporting plate members depending therefrom and having a flanged lower portion movable along said channel rails in engagement with said rollers to slidably support said dresser unit and to permit forward and rearward movement thereof, vertically disposed object carrying side plates attached to the inner surface of the side members of the main frame, extending upwardly of the base of the main frame and inwardly of the said channel rails and separated therefrom sufficiently to permit free movement of said supporting plate members therebetween, such object carrying plates being provided with aligned slots disposed substantially horizontally, a seat cushion slidably supported at its sides by and between said object carrying side plates and adapted for movement rearwardly of said main frame to a position above and free of the bed and also adapted to movement forwardly of said main frame rear wall, a back rest positioned forwardly of and by the dresser unit when said dresser is in its rearward position, outwardly disposed carrying means on each end of said back rest projecting into and slidable in said slots, said back rest being thereby rotatable in said side plates forwardly from a substantially vertical position adjacent said dresser unit to a horizontal position to be supported by the bed at a level sufficiently below the dresser unit to permit the dresser unit to be moved forwardly thereover to its forward position flush with the front of the bed in its rearward position when it is desired to use the article of furniture as a dresser, said back rest being further adapted to movement from its support by the bed to a substantially vertical position after the dresser has been moved thereover to its rearward position, said back rest being supported and releasably held in such position by the dresser and thus permitting the bed to be moved to its forward position when it is desired to use the article of furniture as a bed, and permitting the bed to be returned to its rearward position and the seat cushion to be moved to its forward and lowered position to be supported by the bed when it is desired to use the article of furniture as a davenport.

2,532,356
LAWN SPRINKLER
Robinson Brown and Hugh E. Metcalf, San Antonio, Tex., assignors to Institute of Industrial Research, San Antonio, Tex., a foundation of Texas
Application March 25, 1948, Serial No. 16,908
8 Claims. (Cl. 299—18)

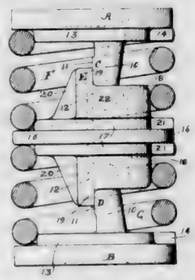


7. A sprinkler consisting of, a body having a central chamber to receive water under pressure, said body having a water inlet opening for said chamber, a spinner around said body and having outlet passages therein for distributing water in a circular area inscribed about said body by the water discharging from the spinner, outlet passages in said body adapted to communicate with said spinner outlet passages, and a sleeve valve slidably rotatable on said body and having water flow passages therein in the same plane as the outlet passages in said body on rotation of said sleeve valve to confine the water flow to the spinner outlet passages to selected segments of the circular area inscribed selectively around said body.

2,532,357
AUTOMATIC BRAKE RELEASING APPARATUS
William H. Callender and Genovero S. Cesena, San Diego, Calif.
Application August 8, 1949, Serial No. 109,219
4 Claims. (Cl. 192—3)

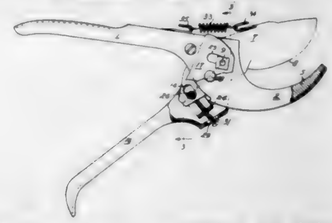
1. In a brake releasing apparatus, an emergency brake plunger handle having an electrical conducting portion grounded to a vehicle chassis, a solenoid stationarily mounted relative to said plunger handle and having a movable member axially angular to the axis of said plunger handle, and engageable therewith for maintaining said plunger handle in certain position longitudinally of its axis, and electrical switch means for energizing said solenoid and retracting said movable member, a spring for retracting said plunger handle and releasing the emergency brake connected therewith, insulation contact means in connection with said plunger handle, a brush contact stationarily mounted relative to said plunger handle, engageable by said insulation contact means when said plunger handle is in released position, said brush contact means electrically connected with said solenoid for supplying ground current connection therefor when said brush contacts said electrical conducting portion grounded to said vehicle chassis.

2,532,358
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application October 25, 1948, Serial No. 56,350
6 Claims. (Cl. 267—9)



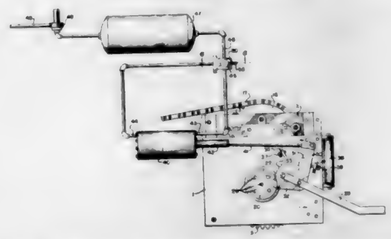
1. In a friction shock absorber, the combination with top and bottom friction posts relatively movable toward and away from each other; of an intermediate friction shoe with which said posts have longitudinal sliding engagement; and top and bottom springs reacting between said shoe and said top and bottom posts, respectively, yieldingly opposing relative lengthwise movement of the posts toward each other, said springs being canted to exert lateral inward pressure on said posts and shoe to force the same together.

2,532,359
PRUNING SHEARS
Stipan A. Drmic, Watsonville, Calif.
Application September 10, 1945, Serial No. 615,364
3 Claims. (Cl. 30—258)



1. Pruning shears comprising an integrally formed handle and jaw having a blade receiving slot, a blade extending through the slot and pivoted to the jaw, the blade having a pair of slots rearwardly spaced from the pivot axis of the blade, a blade actuating handle provided with arms engaging opposite sides of the jaw, a pin pivotally securing the blade actuating handle to the jaw and extending through one of the blade slots, and means adjustably connecting the blade handle to the blade in association with the second slot.

2,532,360
WINCH CONTROL MECHANISM
Alfred W. Evans, Gloucester, Va.
Application April 30, 1947, Serial No. 744,882
2 Claims. (Cl. 74—397)

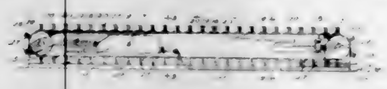


1. In a winch gear shifting mechanism means to control the movement of an eccentrically mounted shaft comprising, a segmental gear concentric with and carried by the eccentric mounting of said shaft, a bell crank pivoted at a point remote from said shaft mounting and having one arm forming a gear sector to mesh with said segmental gear, fluid means to rock said bell crank, a cover plate of larger diameter than said segmental gear mounted concentrically to said gear to prevent lateral movement of said gear sector and disengagement of said segmental gear and gear sector, and adjustable stops positioned in the path of movement of said bell crank to limit its rocking movement in both directions.

2,532,361
REQUISITION HOLDER
George C. Franklin, Anaheim, Calif.
Application May 21, 1946, Serial No. 671,293
1 Claim. (Cl. 40—32)

A check holder comprising an endless belt having elongated upper and lower reaches, rollers around which said belt is trained, mounting means for said rollers, check holders secured to and projecting outwardly from said belt, said

check holders being spaced apart longitudinally of said reaches and each having a front wall and a back wall between which to insert the lower end of a common paper check, said front and back walls being in permanently fixed relation with each other, extending transversely of said belt, and being curved longitudinally to stiffen



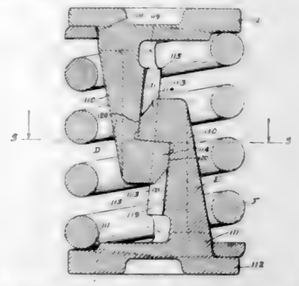
the checks by bowing them into transversely curved form, thereby insuring that the checks shall stand erectly, said belt and walls being constructed from flexible transparent material, and an illuminator mounted between said upper and lower belt reaches for projecting light rays through said transparent belt and walls, thereby illuminating the checks held by said holders.

2,532,362
DEVICE FOR FORMING TROUSER CUFFS
Charles Halek, Cleveland, Ohio
Application October 2, 1947, Serial No. 777,530
9 Claims. (Cl. 223—37)

9. A trouser cuff forming apparatus comprising a support, a cylinder on said support and having an open upper end of a diameter greater than that of the remaining portion of the cylinder, a forming cylinder axially removable in said first cylinder, a forming member insertable between said cylinders, said forming member being of cylindrical form and having an outwardly extending flange arranged to overlie the edge of the first cylinder defining its said open end when the said forming member is in assembled position in said first cylinder, and means for moving said second cylinder in said first cylinder to a position opposite said forming member.

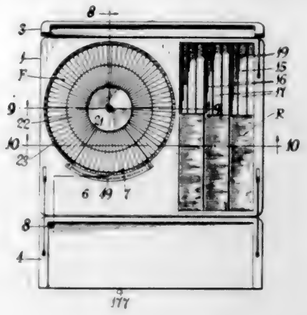
2,532,363
FRICTION SHOCK ABSORBER
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 18, 1946, Serial No. 641,994
1 Claim. (Cl. 267—9)

In a friction shock absorber, the combination with a pair of followers at opposite ends of the device, said followers being movable toward and away from each other lengthwise of the device; of an inwardly projecting friction post on each follower having a lengthwise extending friction surface engaging the corresponding friction surface of the other post; a lug on each post at the outer end thereof protruding from the friction surface of the post, said lug having a flat, lengthwise extending friction surface; a lengthwise extending guide slot rearwardly of the lug of each post,



said slot having a lengthwise extending inner wall presenting a flat friction surface, the lug of each post being guided in the slot of the other post, with the friction surface of said lug in engagement with the friction surface of said inner wall of said slot, the lug of each post being engageable with the lug of the other post to limit lengthwise separation of said posts; and a coil spring bearing at opposite ends on said followers and yieldingly opposing relative lengthwise movement of said posts toward each other.

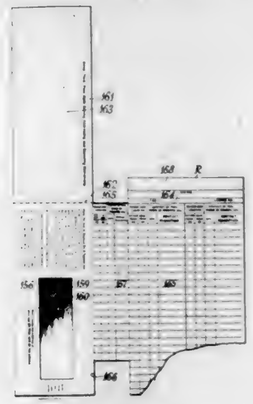
2,532,364
MACHINE FOR ENABLING SYSTEMATIZED CUSTOMER NOTIFICATION SERVICE
Evert F. Johnson, Oil City, Pa., assignor to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania
Application October 1, 1947, Serial No. 777,203
21 Claims. (Cl. 161—6)



1. An automatic follow-up card file holding and designating machine comprising a card carrier movable through an orbital path and having a series of pockets for customer service cards, carrier operating means including a shaft which makes one revolution daily and effects the movement of the carrier through its orbital path in a determined number of days and its movement each day through the distance of a pocket, the

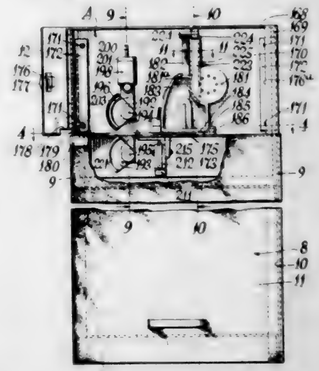
pockets corresponding in number to the number of days required for the orbital movement of the carrier, means operative daily for deploying the service cards in the several pockets at a fixed point in the orbital path of the carrier and including a vertically movable post having a normal position below the card carrier, a motor for the carrier, gearing between the motor and the shaft, and operative connections between the shaft and the card deploying means consisting of an arm upon the shaft and a projection provided as a part of the card deploying means, the arm engaging and disengaging the projection at successive periods of each revolution of the shaft, the arm during its engagement with the projection effecting the upward movement of the post and the post in its upward movement effecting the deployment of the vertically adjacent service cards.

2,532,365
RECORD CARD
Evert F. Johnson, Oil City, Pa., assignor to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania
Application November 8, 1947, Serial No. 784,912
2 Claims. (Cl. 101—127.1)



1. A record card for filing reference and for cooperation with an address and stamp applying mechanism comprising integrally connected outer and inner sections delimited by a common folding line, the sections as folded upon one another being adapted to receive between them a mailing piece, having the usual stamp and address bearing portions with one of its edges abutting the folding line by which the sections are delimited, the inner section being provided at one end and adjacent the outer section with a recess through which the stamp bearing portion of the mailing piece is exposed, being also provided with a panel of stencil material so located as to be in registry with the address bearing portion of the inserted mailing piece, and being further provided at its opposite end with an integral foldable extension to which it is joined along a transverse folding line, the extension being projected when the record card is used in cooperation with the stamp and address applying mechanism and being folded upon the outer face of the inner section when the record card is used for the purpose of filing reference, and the outer section being marked off into entry spaces and a space for identifying data.

2,532,366
MECHANISM FOR ADDRESSING AND APPLYING POSTAGE STAMPS TO MAILING PIECES
Evert F. Johnson, Oil City, Pa., assignor to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania
Application December 18, 1947, Serial No. 792,470
3 Claims. (Cl. 216—1)

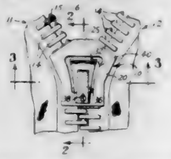


1. Mechanism for applying an address and a postage stamp to a mailing piece fitted within a stencil bearing holder, comprising, in combination, a horizontal supporting shelf for the holder, a reciprocatorily movable stamp applying element located above the shelf and having an operating cycle of movement which includes its movement toward the shelf and in the discharge of its stamp applying function and its movement away from the shelf into an inoperative position in which it is normally maintained, a pair of companion roller elements located respectively above and below the shelf and cooperative with one another in the operations of printing an address upon the mailing piece and effecting the ejectile movement of the holder, the upper roller element being in the form of a quadrant and having an operating cycle of a revolution, the upper roller element being provided with an ink applying feature, the shelf having a recess through which the surface of the lower roller element is exposed for cooperation with the holder, the shelf also having in right angular relation a transverse guide shoulder and a longitudinal guide shoulder, said guide shoulders being cooperative with the holder, a motor, and gearing operated by the motor for simultaneously moving the stamp applying element and the roller elements through their operating cycles, the printing operation of the roller elements succeeding the operation of the stamp applying element and the roller elements in their printing operation also cooperating to effect the ejectile movement of the holder along the shelf in the direction prescribed by the longitudinal guide shoulder.

2,532,367
SLIDE FASTENER SLIDER
John M. Richardson Lyeth, New York, N. Y.
Application March 28, 1946, Serial No. 657,777
7 Claims. (Cl. 24—205.15)

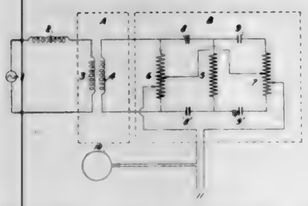
1. A slider for bringing together progressively into interlocking engagement the successive fastener elements of confronting stringers having tapes with the slide fastener elements secured thereon in spaced relation to one another, said slider comprising front and rear wings, each of

which is of greater width at its upper end, flanges along the side edges of the wings, the flanges of each wing extending toward the flanges of the other wing to leave a clearance for the tapes of the slide fastener stringers, and the flanges on the front wing being higher than the flanges on the rear wing so that the clearances for the tapes are nearer the rear wing than the front wing, a neck portion connected with the upper ends of both wings for holding the wings in the desired spaced relation to one another, said neck portion dividing the space between the upper ends of the wings into branch passages



for bringing slide fastener stringers together to engage the fastener elements of said stringers, and said neck portion being a bent-over part of the same piece of material as the front and back wings and having a box-like depression therein for stiffening the construction, the rear wing having surface areas on its inside face disposed at an angle of the order of 174° to one another and meeting along a center ridge that extends generally parallel to the stringers, and spring means secured to the slider and in position to urge the fastener elements of the respective stringers against said surface areas of the rear wing on opposite sides of said ridge.

2,532,368
VOLTAGE PHASE CONTROL CIRCUIT
Johan David Malmqvist, Boliden, Gotthard Viktor Arnold Gustafsson, Hoglandstorget, and Sten Sture Tobias Werner, Akeslund, Sweden, assignors to Bolidens Gruvaktiebolag, Skelleftehamn, Sweden, a joint-stock company limited of Sweden
Application February 9, 1948, Serial No. 7,218
In Sweden November 11, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 11, 1964
1 Claim. (Cl. 323—111)



An alternating current compensator for use in inductively detecting subterranean deposits, that comprises two center-tapped potentiometers with their center taps connected together, connections for supplying alternating current to the opposite ends of one of said potentiometers, a condenser connected to each of the ends of said potentiometer, a resistor connected between the opposite sides of said condensers, a second pair of condensers connected to the opposite ends of said resistor and having their opposite sides connected to the opposite ends of the second potentiometer, and connections between the sliders of said potentiometers and the circuit to be compensated.

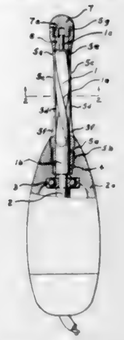
2,532,369
SYNTHETIC WAXLIKE MATERIALS
Joseph C. Patrick, St. Petersburg, Fla., and Franklin O. Davis, Trenton, N. J., assignors to Thiokol Corporation, Trenton, N. J., a corporation of Delaware
No Drawing. Application July 24, 1947, Serial No. 763,436
12 Claims. (Cl. 260—608)

1. Process which comprises reacting an alkaline polysulfide reagent containing a mercaptide chain stopper and constituting a polysulfide reagent corresponding in effective sulfur content to an alkaline polysulfide having the formula

$$M_2S_{1.05-1.13}$$

where M is a cation of the group consisting of ammonium and alkali metals and S is sulfur, with a mixture of dihalogenated compounds each of which has one halogen atom connected to each of two different methylene carbon atoms at least one of said dihalogenated compounds being an alkylene dihalide said dihalogenated compounds having the general formula XRX where R is a divalent radical of the group consisting of aliphatic hydrocarbon, oxahydrocarbon and thiahydrocarbon radicals and araliphatic radicals in which the aromatic portion is hydrocarbon and in which the aliphatic portions are selected from the group consisting of hydrocarbon and oxahydrocarbon radicals, the mol per cent of the alkylene dihalide in the mixture varying from 60 to 95, the mol ratio of alkaline polysulfide to the organic reactants lying within the range of 1.02 to 1.10.

2,532,370
FINGERNAIL CUTTER
Harlan Knox Perrill, San Diego, Calif.
Application February 13, 1948, Serial No. 8,136
6 Claims. (Cl. 30—29)

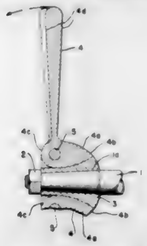


1. In a finger nail cutter of the class described, a combination of a motor shaft, a revolving blade cutter in connection therewith, a casing surrounding said revolving cutter having slotted portions therein through which finger nails may be projected, the sidewalls of said casing through which slotted portions extend varying in thickness providing a varying gauge for cutting finger nails to different lengths.

2,532,371
FEATHERING REVERSIBLE PROPELLER
Werner H. Petersen, San Diego, Calif.
Application July 19, 1946, Serial No. 684,736
5 Claims. (Cl. 170—160.12)

1. A feathering reversible propeller, consisting of a drive shaft, a hub on said drive shaft, blades

having outwardly diverging thickness toward the tips thereof pivotally connected to said hub and extending radially therefrom, said blades having a stop portion arranged to limit the pivotal move-

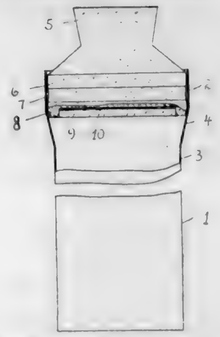


ment thereof in one direction longitudinally of said drive shaft, the center of gravity of said blades being nearer the tip portion than said hub portion.

2,532,372
SAFETY RAZOR WITH MAGNETIC GUARD
Laurence Collier Sanders, New York, N. Y.
Application November 4, 1948, Serial No. 58,190
3 Claims. (Cl. 30—36)

1. In a razor of the type comprising a cap and a guard having a blade clamped therebetween so as to expose a cutting edge of the blade, a magnetized bar carried by the face of the guard remote from the blade and extending lengthwise along and directly opposite the cutting edge in spaced relation thereto, said bar having a cross sectional dimension materially less than one half the width of the blade so as to localize the magnetic pull of the bar along said edge, the marginal portion of the guard adjacent each bar having cut away portions providing substantial unobstructed space extending lengthwise of and located between and in alinement with the bar and cutting edge.

2,532,373
COCKTAIL SHAKER
Peter Schlumbohm, New York, N. Y.
Application July 6, 1946, Serial No. 681,744
2 Claims. (Cl. 220—42)



1. In a cocktail shaker having a bottom wall, side walls and an open top, a cork stopper for closing said open top, said cork stopper having a cylindrical outer surface and an annular sealing lip at its bottom, the side walls of said cocktail shaker flaring upwardly and outwardly below the top thereof and having a cylindrical portion extending directly upwardly above said flared portion, said cylindrical surface of said cork stopper contacting the cylindrical portion of said side walls and said sealing lip contacting both the said flared portion of said side walls adjacent the cylindrical portion and the upwardly extending cylindrical portion above said flared portion.

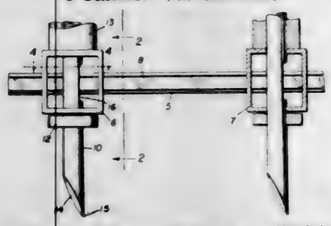
2,532,374
RUBBER-PHENOLIC RESIN COMPOSITION
Alvin F. Shepard, Tonawanda Township, Erie County, and Joseph F. Boiney, Tonawanda, N. Y., assignors to Durez Plastics and Chemicals, Inc., North Tonawanda, N. Y., a corporation of New York
No Drawing. Application May 26, 1945, Serial No. 596,076
1 Claim. (Cl. 260—43)

Process which consists in curing by means of heat a mixture consisting of a normally permanently fusible resinous condensation product of a normally permanently fusible phenol aldehyde resin and a substance of the group consisting of raw cashew nut shell liquid, heat-treated cashew nut shell liquid and Cardanol, a rubbery butadiene acrylonitrile copolymer and hexamethylenetetramine as a hardening agent for the resin, the resin and butadiene acrylonitrile copolymer being used in the proportion of 100 parts by weight of said resin to 100 parts by weight of said copolymer.

2,532,375
GARMENT
Frances Sider, New York, N. Y.
Application September 9, 1950, Serial No. 183,965
4 Claims. (Cl. 2—78)

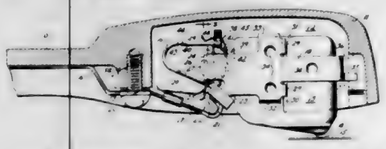
1. The combination of a foundation garment and an outer garment, said foundation garment comprising a strapless brassière portion and a panty portion, said brassière portion comprising a pair of breast pockets and a front portion between said breast pockets and the waistline, a body encircling back strap for said brassière portion having means for attaching and detaching said back strap at the rear center thereof, a pair of panties having an elastic at the upper back, said panties attached at its front portion to the bottom front of said brassière portion, an outer garment comprising an upper portion and a skirt portion, the top edge of the front of said brassière portion conforming to the shape and outline of the top edge portion of the front of the outer garment and attached to the top edge of the front of said upper portion of said outer garment.

2,532,376
BEAM TRAMMEL
Robert Smith, Buffalo, N. Y.
Application January 9, 1947, Serial No. 721,015
9 Claims. (Cl. 33—158)



1. A trammel comprising a cylindrical bar having a flattened side, a head slidably mounted on the bar said head being of open frame construction and including at least a pair of parallel walls, a rod rotatably mounted in the parallel walls of the head at right angles to the bar, said rod projecting vertically through the head and having a manipulating handle at its upper end and a pointed lower work contacting end, said rod being cylindrical and having a flattened side for confronting arrangement with the flattened side of the bar, and said rod camming against the bar upon rotation of the rod to move its rounded side into engagement with the flattened side of the bar.

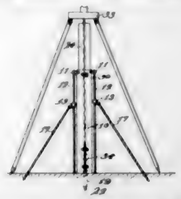
2,532,377
PHONOGRAPH PICKUP APPARATUS HAVING A REMOVABLE CARTRIDGE
Herman B. Spiegel, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 4, 1948, Serial No. 42,381
4 Claims. (Cl. 179—100.41)



1. In a phonograph tone-arm, a hollowed head portion rigid with the tone-arm, a support fixed to the tone-arm and enclosed in said head portion, a pickup holding member also enclosed in said head portion and connected with said support for pivotal movement in relation thereto, said member being provided with a closed end portion and two spaced confronting side portions, a pickup cartridge received between said side portions of said member for movement therewith, said cartridge and said side portions of the holding member having interengaging tongues and grooves, resilient terminals on the closed end portion of said member, and rigid terminals disposed on the pickup cartridge and pressingly engaging said resilient terminals, said resilient terminals and said rigid terminals cooperating to urge the pickup cartridge in a direction to effect engagement between said tongues and grooves.

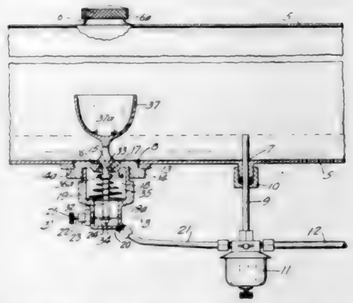
2,532,378
WINDSHIELD FOR PLUMB BOBS
Tilmon B. Starnes, Port Arthur, Tex.
Application March 26, 1948, Serial No. 17,339
1 Claim. (Cl. 160—135)

A device of the character described comprising a transparent main windshield, brackets carried on the upper inner side of said main windshield, a transparent extension windshield vertically slidable in said brackets, means carried at the upper end of the main windshield for locking the extension windshield in selected positions, a



vertically extending rod carried in spaced relation at either side of the main windshield, a ground-engaging rod slidably adjustable upon each of said vertical rods and a vertically dependant stake slidably mounted at the lower end of the main windshield.

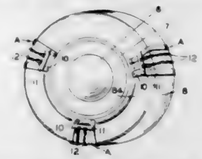
2,532,379
DEVICE FOR MAINTAINING RESERVE SUPPLY IN LIQUID SUPPLY TANKS
Eugene D. Trom, Blooming Prairie, Minn.
Application July 2, 1948, Serial No. 36,743
4 Claims. (Cl. 158—46.5)



1. A device for maintaining a reserve supply in a liquid supply tank of the type having a reserve outlet at the extreme bottom thereof as well as a normal outlet disposed in spaced relation above the bottom thereof, said device comprising a valve seat formed around said reserve outlet, a valve adapted to be received in said seat to close off said outlet, a spring latch mechanism for normally holding said valve in closed position, a resilient element for urging said valve into open position when said latch mechanism is released, and an element connected with said valve and responsive to the impingement of a stream of inflowing liquid discharged thereagainst to close said valve when said tank is refilled, said spring latch mechanism locking said valve in normally closed position.

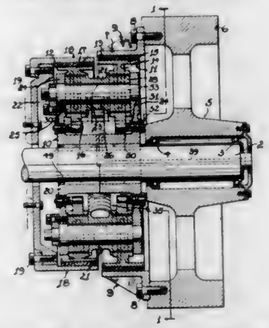
2,532,380
TRACTION GRIP
Harry J. Tschohl and Earl M. Hanson, Mankato, Minn.
Application October 30, 1946, Serial No. 706,626
1 Claim. (Cl. 152—223)

A traction grip comprising two spaced substantially U-shaped individual spring clips adapted to resiliently embrace a tire casing mounted on a wheel, each clip including an intermediate portion and a pair of opposed spring clamping arms integrally formed therewith and said arms forming the sole clamping means for holding said traction grip on said tire casing, the adjacent arms of the respective clips converging inwardly so that when applied the arms of the clips extend radially relative to the wheel, cross-members ex-



tending between adjacent arms of the two clips and connecting the same, said cross-members holding said clips in said radial convergent position, and a flexible traction element, the ends of which are anchored to the said cross-members, said flexible traction element being adapted to fit about the tire casing.

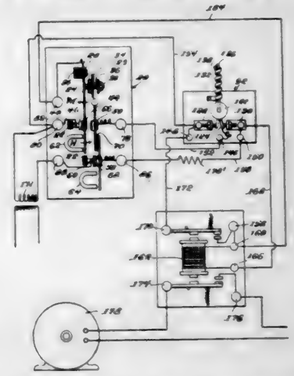
2,532,381
CLUTCH AND BRAKE MECHANISM
John N. Weiland, Cleveland, Ohio, assignor to The Cleveland Punch & Shear Works Co., Cleveland, Ohio, a corporation of Ohio
Application September 1, 1948, Serial No. 47,205
13 Claims. (Cl. 192—17)



1. In a clutch mechanism a circular driving member, a second circular member arranged coaxial with said first member, a third member arranged coaxial with said first two members, individual friction shoes cooperating with said first member, individual friction shoes cooperating with said second member, and lever means pivotally coupled with the central portions of said friction shoes for pivotally supporting said friction shoes for said first and second members, said lever means being pivoted to said third member and including symmetrically arranged circular eccentric portions adapted to pivotally mount the said friction shoes and positively shift same in opposite directions with respect to each other when the lever means are rocked on their pivots on said third member.

2,532,382
CONSTANT TEMPERATURE MAINTENANCE SYSTEM
Edgar Guy White, Peru, Ill., assignor to Sampsel Time Control, Inc., Spring Valley, Ill., a corporation of Illinois
Application November 5, 1945, Serial No. 626,606
6 Claims. (Cl. 236—9)

1. In an automatic heating system, an electrically operated heat generating apparatus, a thermostatic device having a thermal element disposed in a heat reserve storage space of said apparatus including a pair of oppositely placed electrical contacts, a contactor movable between and alternatively engageable with said pair of oppositely placed contacts, a friction coupling between said thermal element and said movable contactor, a room thermostat comprising a heat responsive contactor movable between a stationary heat calling contact and a floating heat satiety contact, a shiftable member in said room thermostat carrying electrically insulated one from another said heat satiety contact and a locking circuit contact, a stationary contacting point cooperating with said locking circuit contact, detent means for influencing said shiftable member to present its carried locking circuit con-

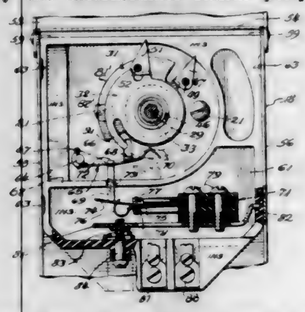


tact into engagement with said locking circuit stationary contact, an electric relay controlling a heat generating apparatus contact and a self-locking contact, and an energizing circuit for said relay including, in circuit communication, said room thermostat heat calling contact, said room thermostat locking circuit contact, said locking circuit stationary contact, and a shunt path for said relay including said thermostatic device contactor and one of its said pair of oppositely placed contacts for de-energizing said relay to arrest further operation of said heat generating apparatus in response to a heat sufficiency signal movement by said thermostatic device contactor, and a secondary energizing circuit for said relay including the other of said pair of oppositely spaced contacts and the floating heat satiety contact.

2,532,383
WARM AIR LIMIT CONTROL SWITCH
Edgar G. White, Peru, Ill., assignor to Sampsel Time Control, Inc., Spring Valley, Ill., a corporation of Illinois
Application March 20, 1947, Serial No. 735,923
1 Claim. (Cl. 200—138)

In a temperature responsive instrumentality for accomplishing an electrical control the combination including a spiral bimetallic element, a torque shaft secured to one end of said element for rotation in accordance with temperature fluctuations upon said element, a double-pole contactor, a spring tensioned actuator blade having an over-centering spring connection with said contactor, a cam follow lever pivoted adjacent said actuator blade, a link connecting said lever with said actuator blade, the spring tension of said blade maintaining said lever in

cam following condition, a first external periphery cam adjustably carried by said shaft having a low radius periphery and a high radius periphery, a second external periphery cam having an intermediate radius periphery, and means for adjusting said cams radially of said torque shaft whereby the intermediate radius periphery of



said second cam is made to subtend a predetermined angle between said low and high radius peripheries of said spring connection maintaining said contactor engaged with either of its poles last engaged during the rotation of said shaft and cams in either direction as during heat change effects on said bimetallic element.

2,532,384

SHARPENER FOR MECHANICAL PENCILS

John L. Worden, San Diego, Calif.
Application September 16, 1947, Serial No. 774,285
2 Claims. (Cl. 120—15)

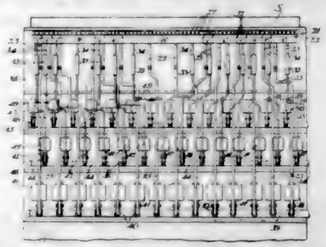
1. In a sharpener for mechanical pencil leads of the class described, the combination of a mechanical pencil having a lead projecting therefrom and a plurality of opposed resilient fingers reciprocally mounted longitudinally of the axis of said mechanical pencil having sharp inwardly directed extremities, engageable with the outer side of said lead, the ends of resilient fingers being sharp and disposed inwardly toward the axis of said lead, a hollow cylindrical portion connected to said fingers telescopically connected with a portion of mechanical pencil, and stop means in connection with said mechanical pencil for limiting the longitudinal play of said resilient fingers on said lead and said pencil.

2,532,385

APPARATUS FOR SCARFING SLABS OF DIFFERENT WIDTHS

James L. Anderson, Closter, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application February 23, 1946, Serial No. 649,549
10 Claims. (Cl. 158—27.4)

1. A machine adapted to scarf slabs of any width up to a certain maximum width comprising a plurality of torches having block tips assembled in end-to-end relation, each tip having oxygen jet passages terminating in discharge orifices in the discharge face of the tip, the discharge orifices in the tips being arranged so that in the assembly of tips they form a continuous series in which the orifices are substantially uniformly spaced throughout the assembly, the assembly of tips comprising a center tip and a plurality of other tips located outwardly of the center tip at both ends thereof, the center tip



having a length which adapts it to scarf slabs up to a predetermined width and each of said other tips being shorter than the center tip, and each of the torch tips having its own independently controlled oxygen supply means.

2,532,386

COLORED PHOSPHATE GLASS

William H. Armistead, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application September 27, 1949, Serial No. 118,200
8 Claims. (Cl. 106—52)

1. A colored phosphate glass comprising essentially 45% to 80% P_2O_5, 8% to 25% Al_2O_3, 1% to 30% SiO_2, 0.1% to 5% CuO, and 0.1% to 3% CeO_2, the weight percentage ratio P_2O_5/Al_2O_3 being between 3/1 and 6/1 and the total percentage of the essential constituents being at least 80% of the total glass composition.

2,532,387

PRODUCTION OF METHYLCHLOROSILANES

Donald L. Bailey, Buffalo, and George H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
No Drawing. Application September 13, 1949, Serial No. 115,546
2 Claims. (Cl. 260—448.2)

1. Process for making methylchlorosilanes which comprises reacting hydrogen with a compound of the type

$$R—C_2H_4—SiCl_3$$

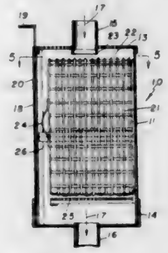
where R is hydrogen or trichlorosilyl, said reaction occurring in the presence of a boron halide at a temperature above 400° C. and at a pressure above 2500 p. s. i.

2,532,388

DRAINPIPE FILTER

Albert Batt, Jr., Buffalo, N. Y.
Application March 5, 1947, Serial No. 732,551
1 Claim. (Cl. 210—90)

A debris separating trap for drain pipes comprising an elongated casing including a pair of side walls, a pair of end walls and upper and lower walls, one of said end walls having a longitudinal access opening, a slidable closure carried by the casing for closing the access opening, guide means fixed within the casing slidably receiving the closure, inlet means carried by the upper wall of said casing and outlet means carried by the lower wall of said casing, a screened receptacle positioned within the casing and having a bottom, an elongated substantially horizontal support arm fixed to and projecting laterally from one end wall of said casing, said arm being spaced between the side walls of said casing and disposed above the lower wall of said casing, said arm bearing against the bottom of said

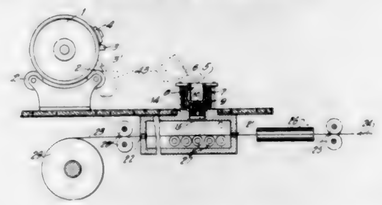


receptacle and forming the sole support for said receptacle, and horizontal spacer strips fixed to the inner faces of said side walls and bearing against said receptacle to space the receptacle from the side walls of said casing.

2,532,389

METAL COATING DEVICE

Clements Batcheller, Glens Falls, N. Y.
Application February 3, 1944, Serial No. 520,971
2 Claims. (Cl. 91—12.2)



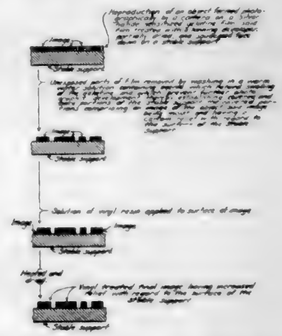
1. In a device for depositing molten metal at a controlled and comparatively slow rate, the combination with refractory container adapted to contain said molten metal, of means for heating the metal in said container and maintaining it therein in a fluent, molten condition, a refractory element defining an attenuated passage communicating with the lower interior portion of said container and through which molten metal from said container may flow by gravity, and means for controlling the outflow of metal from said container through said passage comprising means for heating the metal in said passage by the action of electric current.

2,532,390

PREPARATION OF A PRINTING SURFACE

Charles W. Bennett, Rochester, N. Y., and William F. Alexander, Cleveland, Ohio, assignors to Rochester Institute of Technology, Rochester, N. Y., a corporation of New York
Application May 28, 1945, Serial No. 596,410
1 Claim. (Cl. 41—25)

The process of producing a printing surface which comprises forming photographically in a camera a reproduction of an object on a silver-halide sensitized gelatine film, treating the film with a tanning developer, partially drying the developed film, and squeegeeing the film face down on a stable support; removing the unexposed parts of the film by washing in a warm water solution containing agents which retard swelling of the gelatine and which prevent further photographic development, thereby establishing covered and bare portions of the stable support, the covered portions comprising an image of the object, said image being moist and having a certain relief with regard to the surface of the stable support; subjecting the moist gelatine image thus established to a saturated sodium chloride solution to remove excess water from the gelatine; treating the moist gelatine image substantially for 2 minutes in a 40% formaldehyde solution containing 2 to 3 ounces of tannic acid and approximately 12 to 18 ounces



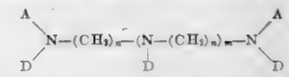
of glycerine per gallon to partially harden the image; rinsing and removing excess water by treating with the saturated salt solution; subjecting for approximately ½ minute the moist partially hardened gelatine image to a water solution containing approximately 2 ounces of ammonium dichromate per gallon; rinsing well with water, and removing the excess water to leave the gelatine image relief in a moist condition; applying a solution of vinyl resin to the surface area of the image; removing the excess of said resin, heating, and drying; and utilizing the dried image surface for printing purposes.

2,532,391

ALKYLENE POLYAMINE DERIVATIVES

Frederick C. Bersworth, Verona, N. J.
No Drawing. Application March 15, 1947, Serial No. 735,018
3 Claims. (Cl. 260—404.5)

1. A compound having the formula



wherein n is an integer selected from the group consisting of 2 and 3; m has a value equal to one of the group consisting of zero, the numeral 1, and any multiple thereof; D is a member of the group consisting of —CH_2COOH,

—$CH_2 \cdot CH_2 \cdot COOH$

and their alkali metal salts; A is an alkyl group containing at least seven carbon atoms and having not more than two hydrogen atoms thereof replaced by a member of the group consisting of —COOR, —COOM, —SO_3H, —SO_3M, —OR, and —OR′OR wherein R is one of the group consisting of alkyl and hydrogen, M is an alkali metal, and R′ is an alkylene group, each said replacing groups being spaced from the N atoms of the compound by at least two carbon atoms of the hydrocarbon group containing the same.

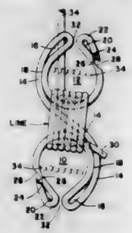
2,532,392
ADDITION PRODUCTS OF SULFURIC ACID AND POLYCARBOXYLIC TERTIARY AMINO ACIDS
Frederick C. Bersworth, Verona, N. J.
No Drawing. Application October 4, 1947, Serial No. 778,046
9 Claims. (Cl. 260—534)

1. An addition product consisting of a polycarboxylic tertiary amino acid and sulfuric acid, in the ratio of at least 0.55 molecules of sulfuric acid per nitrogen atom of said amino acid.

2,532,393
HYDROCHLORIDES OF STREPTOMYCIN OXIME AND STREPTOMYCIN AMINE
Norman G. Brink, Princeton, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application October 26, 1946, Serial No. 706,042
5 Claims. (Cl. 260—210)

5. The process that comprises reacting streptomycin hydrochloride with hydroxylamine hydrochloride and pyridine in aqueous solution, recovering the streptomycin oxime trihydrochloride thus formed and reacting the same in aqueous solution with hydrogen in the presence of platinum oxide catalyst, filtering off the catalyst, concentrating the reaction mixture to dryness, and dissolving the residue in alcoholic hydrochloric acid, thereby forming streptomycin amine tetrahydrochloride.

2,532,394
LINE HOLDER
Paul M. D'Amico, Philadelphia, Pa.
Application June 1, 1945, Serial No. 597,104
2 Claims. (Cl. 242—96)



1. A line holder including a body member, and open loops at the opposite ends of said body member, the openings in said loops being relatively small and being disposed near the extremities of said body member and the closed portions of said loops being disposed in juxtaposition to the central portion of said body member, said body member being made of wire and the end of said wire being beveled to provide cutting edges and being so bent as to cause said cutting edges to abut against the adjacent portions of said loops.

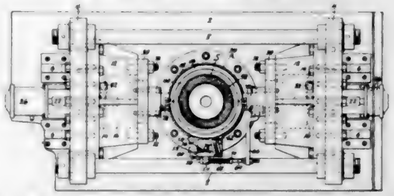
2,532,395
CORD
Camille Dreyfus, New York, N. Y.
No Drawing. Application February 4, 1947, Serial No. 726,447
2 Claims. (Cl. 57—140)

1. A tire cord comprising a cabled structure containing two ends of plied yarn, one end of which comprises a cotton yarn plied with a steel filament, and the other end of which comprises a nylon yarn plied with a regenerative cellulose yarn.

2,532,396
UREA-FORMALDEHYDE RESINS OF HIGH NAPHTHA TOLERANCE
George Edward Eilerman, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application October 13, 1948, Serial No. 54,357
12 Claims. (Cl. 260—70)

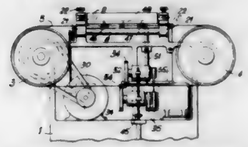
11. A process of preparing urea formaldehyde resin of high naphtha tolerance, which comprises condensing 1 mol of urea and 2 to 2.4 mols of formaldehyde dissolved in an alkyl monohydric alcohol containing 4 to 8 carbon atoms per molecule, by refluxing the mixture with distillation of water until water ceases to evolve but the product is still liquid, then reacting the resultant product with .5 to 3 moles of additional aldehyde until water again ceases to evolve.

2,532,397
BAND GROOVE SERRATING MACHINE
Morris S. Evans, Abraham O. Kleckner and Edmund A. Watson, Buffalo, N. Y., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 10, 1944, Serial No. 534,926
5 Claims. (Cl. 78—45)



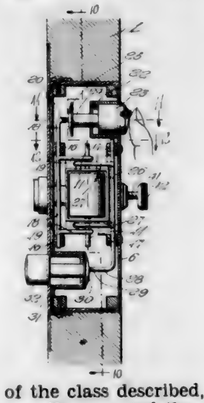
4. In a serrating machine, a pair of opposed inner cylinders, a pair of opposed outer cylinders spaced from and horizontally aligned with said inner pair of cylinders, a piston in each of said cylinders, means rigidly connecting the pistons of the inner pair of cylinders with the pistons of the outer pair of cylinders, opposed serrating tools carried by the pistons of the inner pair of opposed cylinders, a standard located intermediate the opposed serrating tools, a horizontal turntable for supporting the object to be serrated mounted on said standard, a source of controlled high pressure connected with said inner pair of cylinders for moving the pistons therein to advance the serrating tools in unison to impress serrations upon the object, a source of continuous relatively lower pressure connected with said outer pair of cylinders acting against the pistons therein to constantly urge the serrating tools toward retracted position, a ratchet wheel fixed around the periphery of the turntable, a bracket extending from said standard adjacent the ratchet wheel, a slide member mounted on the bracket, a spring-pressed click pivotally connected to the slide member and engaging said ratchet wheel for rotation of the turntable a predetermined amount in one direction, and means including an arm secured to the piston of one of the inner cylinders operatively connected with the slide member for actuating the click to rotate the turntable during retraction of the serrating tools.

2,532,398
LEATHER SPLITTING MACHINE
Henri Fehlmann, Courtelary, Switzerland
Application July 6, 1948, Serial No. 37,147
In Switzerland July 7, 1947
2 Claims. (Cl. 69—10)



1. In a leather splitting machine comprising two grinding wheels and a band cutter mounted on a driving and a driven pulley, a first lever, a swing lever fulcrumed on said first lever, two back guides hingedly mounted on said swing lever intended to bear against the operative part of the band cutter, a second lever, a back guide hingedly mounted on said second lever intended to bear against the nonoperative part of said band, a common shaft to which both said first and second levers are secured, a common adjusting member for controlling said shaft, whereby the band cutter can be fed accordingly as it wears against said grinding wheels.

2,532,399
LOCK FOR DOORS AND THE LIKE
Fortunato Pozo Fernandez, Madrid, Spain
Application April 17, 1946, Serial No. 662,662
4 Claims. (Cl. 292—166)

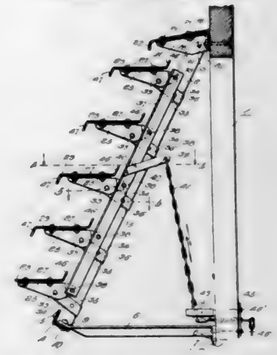


4. In a lock of the class described, a casing, a latch bolt reciprocally mounted therein, a housing for said bolt having longitudinal slots in opposite side walls thereof, laterally extending pins on said bolt projected through the slots of said housing whereby the movement of said bolt outwardly is limited, spring means normally directing said bolt to its extended position with respect to the casing, a rod oscillatingly mounted within said casing provided with lateral arms adapted to rest upon the lateral pins of said bolt, a push button slidable through the front wall of said casing and having a plunger thereon operable on an axis at right angles to the plane of movement of said latch bolt, the one end of said rod being bent laterally to form a lever having the free end thereof curved for normal contact with the inner end of the plunger on said button, whereby inward pressure on the plunger will swing the lever and cause oscillation of said rod and move the arms into pressing engagement with the pins to cause retraction of said latch bolt against the action of the spring means.

2,532,400
SIZING COMPOSITIONS
Fred Fortess, Summit, N. J., and Marshall Duke, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 8, 1948, Serial No. 64,234
8 Claims. (Cl. 260—23)

1. A composition for the sizing of textile yarns, comprising a mixture in water of polyvinyl alcohol, a humidifying agent; a lubricant composition comprising a mixture of mineral oil, an oxidized vegetable oil, a dialkyl phenol, an alkylolamine and a higher fatty acid; and a conditioning agent comprising the desalted and dehydrated alkali-neutralized reaction product of oleum with a mixture of a higher fatty acid, a vegetable oil and mineral oil, which reaction product has been diluted with mineral oil.

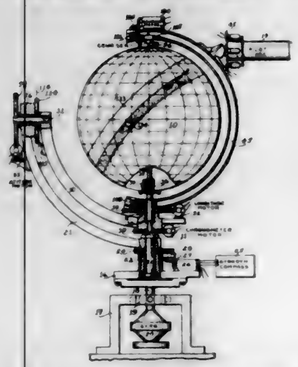
2,532,401
METAL VARIABLE SHUTTER AWNING
Roland D. Goodwin, Lakewood, Ohio
Application November 14, 1946, Serial No. 709,702
1 Claim. (Cl. 20—57.5)



A shutter awning comprising a frame including side bars formed of angle metal and having outwardly extending flanges along front edges, an upper blade extending transversely of the frame between upper ends of the side bars, brackets connecting ends of said upper blade with upper ends of said side bars, said brackets being formed of sheet metal and each having a vertically disposed rear wall formed with an opening for receiving a fastener for securing the bracket against a window frame, a lip projecting forwardly along the upper edge of the rear wall, a side wall projecting forwardly from the outer end edge of said rear wall, a flange extending along the upper edge of said side wall and projecting inwardly therefrom and having its rear portion overlapping said lip, bolts passing through the side walls of the brackets and through upper ends of the side bars and pivotally mounting the side bars, said upper plate having its end portions resting upon the overlapped portions of the lips and the flanges of the brackets, bolts passed through aligned openings formed through ends of the upper blade and through the overlapped portions of the said side flanges and the said lips and securing the upper blade to said brackets, anchoring brackets

secured against inner faces of said side bars and projecting forwardly from the side bars, hinge brackets pivotally connected with the forwardly projecting ends of said anchoring brackets at opposite sides of the frame, louvers extending transversely of the frame and having their end portions secured to said hinge brackets, and means for simultaneously tilting the hinge brackets and holding the louvers in adjusted positions.

2,532,402
NAVIGATING INSTRUMENT FOR CRAFT AND PILOT GUIDANCE
Robert J. Herbold, Denver, Colo., assignor to Lafayette M. Hughes, Denver, Colo.
Application March 15, 1947, Serial No. 735,030
23 Claims. (Cl. 318—489)

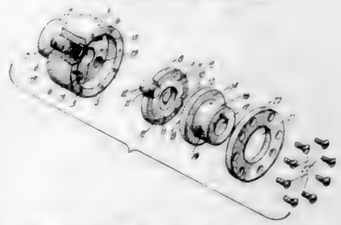


23. A navigating instrument for craft having craft guidance apparatus comprising an equatorially mounted light seeking electronic device which is automatically controlled by the radiant energy directed from and movable to maintain a fix on a celestial body during the craft movement, a chart having a course to a destination plotted thereon according to latitude and longitude and to correct for instrument errors but without being limited to a great circle, a course follower movable over the chart, latitude and longitude determining mechanism governed by said device which responds to changes in the latitude and longitude of the craft position, mechanism governed by the latitude and longitude determining mechanism while the electronic device maintains its fix which causes the course follower to move over the chart and to be positioned in accordance with the instantaneous latitude and longitude position of the craft, and electrical mechanism rendered operative by a deviation of the follower from the plotted course which governs the craft guidance apparatus and causes the craft to approach and substantially follow the course.

2,532,403
PYROGEN REMOVAL FROM STREPTOMYCIN SALTS
Eugene E. Howe, Linden, and Max Tishler, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application November 8, 1946, Serial No. 708,818
5 Claims. (Cl. 260—210)

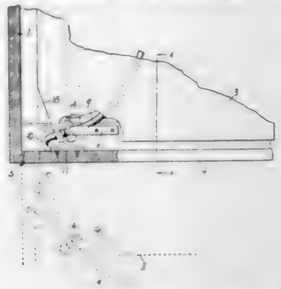
1. The process that comprises adding powdered charcoal to an aqueous solution of a pyrogenic streptomycin acid salt, agitating the mixture for about one hour, and filtering off the charcoal, thereby recovering a solution of the streptomycin acid salt free of pyrogens.

2,532,404
RATCHET DRIVE
Ivan D. Jagger, Albany, N. Y., assignor to Wheeler Paper Corporation, Albany, N. Y., a corporation of New York
Application December 19, 1945, Serial No. 635,931
2 Claims. (Cl. 192—46)



1. A unitary ratchet driving mechanism, comprising a cylindrical casing having a hub thereon adapted to receive a shaft on which said casing may be rotatably mounted and provided in the interior end wall thereof about said hub with a plurality of circumferentially spaced recesses, a first cylindrical disc in said casing provided on one side face thereof with pins slidably receivable in said recesses, whereby relative rotation of said casing and disc is prevented, and, on the other side, with a multiplicity of ratchet teeth extending radially inwardly from the periphery thereof, a second cylindrical disc in said casing coaxial with said first disc and provided with a multiplicity of similar ratchet teeth on the side thereof adjacent said first disc and adapted to cooperate with the teeth on said first disc; said second disc being provided with means adapting it to be fixed to said shaft; a cover forming the other end wall of said casing and securing said discs in said casing but providing relative axial movement of said discs to effect a disengagement of said teeth, and resilient means yielding holding said teeth in cooperative engagement.

2,532,405
DRAWER SLIDE ACTUATING MECHANISM FOR CABINETS AND THE LIKE
Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application July 9, 1945, Serial No. 603,869
7 Claims. (Cl. 312—186)



1. The combination with a compartment, of a vertically hinged door for said compartment, a drawer slide mounted within said compartment to be partially withdrawn therefrom, a rod-like member having cam-like surfaces extending longitudinally thereof along opposite sides thereof, said rod-like member being mounted on the inner side of the door adjacent the hinge thereof and projecting therefrom below the drawer slide, a bracket mounted on the under side of said slide, a roller support pivotally mounted on the under side of said bracket, and grooved rollers on said roller support in spaced relation to receive said rod-like member between them and to coactively engage said cam surfaces whereby the drawer slide is automatically withdrawn from and moved into the compartment with the opening and closing of the door.

2,532,406
NEON TUBE AND ELECTRODE HOLDER
William B. Jernigan, Waskom, Tex.
Application March 23, 1948, Serial No. 16,403
4 Claims. (Cl. 294—99)

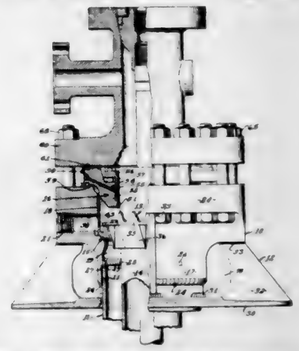
1. A holder for cylindrical neon tubes or the like, said holder comprising a pair of longitudinally elongated coextensive jaws, having facing concavities of semi-circular cross section extending therealong, spring means connected to and between the rear ends of said jaws and normally spreading said jaws, the concavity of one of said jaws being sufficiently small in diameter to fit the smallest diameter tube or the like to be held and the concavity of the other jaw being larger in diameter than the concavity of said one jaw and sufficiently large in diameter to fit the largest diameter tube to be held, and means embracing said jaws and slidable forwardly therealong to contract said jaws to hold a neon tube or the like lengthwise therebetween with said concavities engaging diametrically opposite sides of the tube or the like.

2,532,407
CORROSION INHIBITING COMPOSITIONS
Sven Christian Johansson, Goteborg, Sweden
No Drawing. Application August 29, 1946, Serial No. 693,816. In Sweden September 5, 1945
2 Claims. (Cl. 106—14)

1. A corrosion inhibiting, surface treating composition consisting essentially of a liquid, metal surface coating agent which is a member of the class consisting of a lubricant, paint, varnish, lacquer, and disinfectant, and containing therein a minor amount of an alkali salt of a nitroparaffin sufficient to impart to said liquid coating agent when applied to the metal surface the capacity to inhibit the corrosion of the metal surface, said nitroparaffin being a member of the class consisting of nitromethane, nitroethane, and nitrophenylnitromethane.

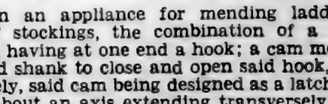
2,532,408
CASING HEAD
Glenn D. Johnson, Compton, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Original application December 22, 1943, Serial No. 515,223. Divided and this application December 30, 1944, Serial No. 570,694
7 Claims. (Cl. 166—14)

1. A head applicable to a well casing including, a base plate with a casing opening, a tubular body spaced above the plate and including a sleeve portion directly over the casing opening, the upper end of the casing extending upwardly through the opening in the plate, the lower end of the sleeve portion being fully exposed at the



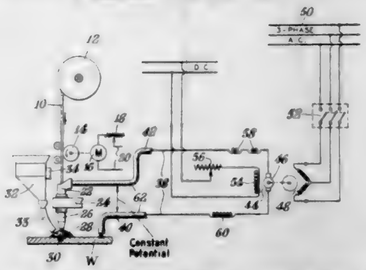
exterior of the head and being a substantial distance above the plate for the reception of a weld to weld the sleeve portion on the casing, and means spaced from the lower end of the sleeve connecting the plate and body.

2,532,409
APPLIANCE FOR MENDING LADDERS
Olga Joho, Basel, Switzerland
Application July 17, 1947, Serial No. 761,497
In Switzerland August 8, 1946
9 Claims. (Cl. 66—117)



1. In an appliance for mending ladders of ladies' stockings, the combination of a hollow shank having at one end a hook; a cam mounted in said shank to close and open said hook, alternatively, said cam being designed as a latch rockable about an axis extending transversely of the plane of the hook; and a spring connected to said cam for adjustably biasing said cam.

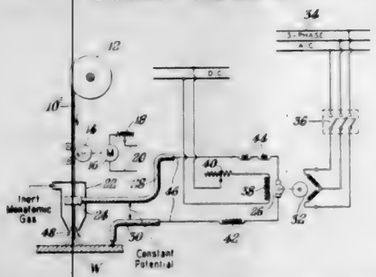
2,532,410
INERT MONATOMIC GAS SHIELDED METAL-ARC WELDING PROCESS
Harry E. Kennedy, Berkeley, Calif., assignor to The Linde Air Products Company, a corporation of Ohio
Application October 29, 1949, Serial No. 124,399
3 Claims. (Cl. 219—10)



1. An inert monatomic gas-shielded metal-arc welding process which comprises applying a rela-

tively low voltage of the order of 20 to 28 volts from a welding current source of constant potential across a bare metal welding rod and metal work composed of a refractory-oxide metal selected from the class consisting of aluminum, stainless steel and magnesium, discharging a stream of inert monatomic gas around the end portion of such rod and against the work, feeding the rod toward the work at a substantially constant relatively rapid rate sufficient for fusing the end of such rod and the adjacent work metal with welding current flowing from such source through the end portion of the rod and the work under such stream of inert gas, and moving the rod and gas stream along a desired path to be welded on the work while maintaining substantially constant both the rapid rate of rod feed and the relatively low voltage of such potential.

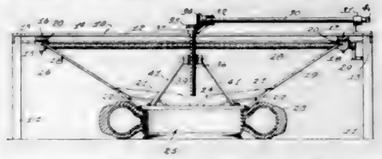
2,532,411
CONSTANT-POTENTIAL SUBMERGED-MELT METAL-ARC WELDING
Harry E. Kennedy, Berkeley, Calif., assignor to The Linde Air Products Company, a corporation of Ohio
Application October 29, 1949, Serial No. 124,400
4 Claims. (Cl. 219—8)



1. A constant potential metal-arc welding system comprising a constant potential source of welding current having a current supplying capacity of the order of 19,000–81,000 amperes per square inch of welding rod cross-section, means for feeding a bare welding rod composed of metal at a constant rate toward a welding zone on work composed of metal, leads connecting said source of welding current directly to the work and to the welding rod, so that welding current flows through such rod and the work at a current density of the order of 19,000-81,000 amperes per square inch of welding rod cross-section, forming a welding arc which fuses the end of the rod and the adjacent metal of the work, and means supplying a granular flux medium to such welding zone which in such current density range stabilizes the welding arc, whereby for a rod of given size the amount of welding current inherently depends upon the speed at which such rod is fed toward the welding zone, and the resulting welding operation is so stable that the need for rod feed and voltage controls, as well as stabilizing resistors and reactors in the welding circuit is eliminated.

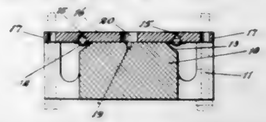
2,532,412
TIRE REMOVING DEVICE
James I. Larman, Kensett, Ark.
Application October 28, 1949, Serial No. 124,086
4 Claims. (Cl. 157—1.2)

1. A device for removing a tire casing from a rim having a bead, comprising a table to be arranged over the tire casing and rim, opposed longitudinally slidable plates slidably mounted upon the table for movement toward and from each other, mechanical means connected with the slidable plates to move them, bars pivotally connected with the slidable plates and extending below the table and having parts for engagement between the bead of the rim and tire casing, a vertically disposed screw shaft mounted upon



the table above the tire casing and rim and disposed at the centers thereof, a nut mounted upon the screw shaft for vertical movement when the screw shaft rotates, vertically swingable arms connected with the nut and having parts to engage about the rim bead for pulling the rim out of the tire casing when the nut moves upwardly, and mechanical means to rotate the screw shaft.

2,532,413
MAGNET STRUCTURE FOR LOUD-SPEAKERS
Sidney E. Levy, Brooklyn, N. Y. assignor to University Loudspeakers, Inc., New York, N. Y., a corporation of New York
Application December 31, 1946, Serial No. 719,430
1 Claim. (Cl. 179—117)



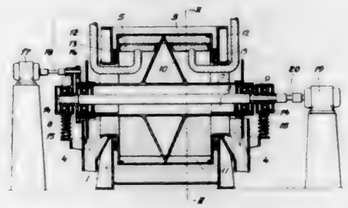
A magnet assembly for a loudspeaker or the like comprising a generally cylindrical block of magnetized metal having the cross-sectional shape of an E forming an outer rim and inner cylindrical portion, the outer rim of said magnet having one magnetic polarity and the inner cylindrical portion the other magnetic polarity, a cover plate assembly comprising an outer annular plate and an inner circular plate fixed together, said assembly being mounted on said magnet and forming an annular magnetic gap, a plurality of slots extending radially inwardly through the rim portion and annular groove of the magnet, holes in said cover plate mating with said slots and forming means to mount said magnet assembly, an opening in said inner circular plate and a groove in the face of said inner cylindrical portion of the magnet, said groove communicating with said opening.

2,532,414
PERMANENT MAGNET ELECTRODYNAMIC LOUD-SPEAKER STRUCTURE ADAPTED FOR READY ASSEMBLY
Sidney E. Levy, Brooklyn, N. Y., assignor to University Loudspeakers, Inc., New York, N. Y., a corporation of New York
Application December 31, 1946, Serial No. 719,433
4 Claims. (Cl. 179—115.5)

1. In a transducer of the type described, having a frusto-conical diaphragm supporting basket and a permanent magnet structure supported thereon to produce an annular magnetic gap into which a voice coil carried by the diaphragm projects, means for locating the elements of the magnetic structure relative to the diaphragm and voice coil, comprising, in combination, an inwardly-extending flange at the apex of the basket, projections on said flange, an outer magnetic pole piece having a central aperture therein, hollow bosses on said pole piece into which said projections fit to fix the position of said pole piece relative to said diaphragm, an inner pole piece, a non-magnetic washer mounted on said inner pole piece and having an outwardly-extending flange in contact with said outer pole piece, depressions in said washer flange into which said

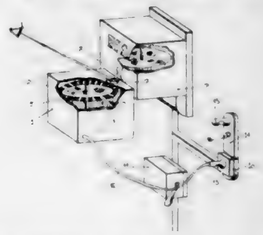
bosses fit to locate said washer in a definite position with respect to said outer pole piece to thereby fix the position of said inner pole piece with respect to said outer pole piece and form an annular magnetic gap in which the voice coil is centered, a doubly-polarized plate magnet in contact with said inner and outer pole pieces, respectively at the center and the ends thereof, and a cup-shaped member for holding said pole pieces and magnet in adjusted position, said member bearing against the base of said magnet and being fixed at its rim to the said flange of the basket.

2,532,415
ROTARY SCREENING DRUM
Karl Roland Lindblad, Sundsbruk, Sweden, assignor to Svenska Cellulosa Aktiebolaget, Stockholm, Sweden, a joint-stock company of Sweden
Application April 19, 1946, Serial No. 663,393
In Sweden April 25, 1945
4 Claims. (Cl. 92—36)



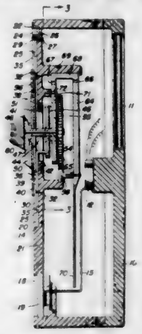
1. Apparatus for screening liquid suspensions such as a fibrous suspension comprising a trough for receiving the suspension, a screening drum in said trough adapted to be at least partly immersed in the suspension and being provided with an outlet for screened material in at least one end wall thereof, a hollow shaft arranged coaxially with and extending through and supporting said drum, elastic journals at opposite sides of said drum mounting said shaft, said journals being axially aligned with the common axis of said shaft and drum means for rotating said shaft, a second shaft arranged coaxially within said hollow shaft, said second shaft being loaded eccentrically with respect to its axis, bearing means carried by said hollow shaft for journalling said eccentrically loaded shaft, and means for rotating the latter to thereby impart vibratory motion to said hollow shaft and drum through said bearing means.

2,532,416
STANDARD ELECTRIC METER PROVIDED WITH PORTABLE STROBOSCOPIC DEVICE
Gustave Ernest Maillat, Seine-et-Oise, France, assignor to Electricite de France, Paris, France, a body corporate of France
Application April 9, 1946, Serial No. 660,593
In France March 3, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 3, 1964
2 Claims. (Cl. 175—183)



1. A stroboscopic device for checking and adjusting, by means of a standard meter, a service meter having a disk, radial graduation marks on the edge of the lower face of said disk, a window on the front of a casing containing said service meter for observing said graduation marks and means for readily connecting the standard meter to the meter to be checked, wherein the said standard meter comprises a casing, a disk rotating at the same angular speed as the disk of the service meter, alternately translucid and opaque radial graduation marks of equal width on the periphery of said standard meter disk, a punctual source of light positioned under the last said disk for throwing over the lower face of the disk of the meter to be checked enlarged images of said opaque and translucid marks.

2,532,417
PHOTOELECTRIC EXPOSURE METER
Robert S. Norman, Killeen, Tex.
Application October 5, 1948, Serial No. 52,906
1 Claim. (Cl. 88—23)



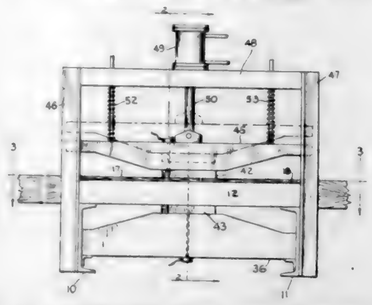
An exposure meter with a current generating photoelectric cell and a galvanometer pointer for measuring the illumination to which said cell is exposed, comprising a casing provided with a window, displaying a portion of the galvanometer pointer, an adjustable annular scale plate, provided with a window and with elastic means of fixation in a plurality of positions, a filter factor scale plate fixedly mounted in the casing provided with filter factor indicating marks, adapted

to be displayed through the window of the adjustable scale plate and further provided with means for receiving the fixation means so as to fixedly adjust the scale plate in a selected position corresponding to a filter factor, a concentric rotatable annular scale plate, cooperating with the first named scale plate, and provided with a coupling arm, one of said scale plates carrying shutter speed indications and the other relative aperture indication marks, a third concentric scale plate provided with a window, a fixed scale plate carrying indication marks indicating emulsion speeds, two concentric axles in the center of said concentric scale plates, each axle carrying an adjustment knob, one of said knobs being fixedly coupled with the last named rotatable scale plate, the axle carrying said knob also being fixedly connected with a spur wheel, a U-shaped shiftable member with two parallel spaced racks, one of said racks being operatively connected with said spur wheel, a follow up pointer, a pivot for the same, a toothed segment connected with said pointer meshing with the second rack on the U-shaped member, a second knob attached to the second one of the concentric axles, the said second axle carrying a spur wheel, a further rack meshing with said spur wheel, said rack being shiftable in substantial parallelism to the U-shaped member and carrying the pivot of the follow up pointer, a freely rotatable spur wheel on the said concentric axles coupled with the coupling arm of the first named rotatable scale plate, and a crown wheel mechanism for establishing a gear connection between the spur wheel on the second axle and the said freely rotatable wheel, adapted to transmit the follow up movement of the follow up pointer to the first named rotatable scale plate.

2,532,418
HYDRAULICALLY OPERATED ANCHOR FOR TUBING OR THE LIKE
John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California
Application April 21, 1947, Serial No. 742,937
7 Claims. (Cl. 103—219)

1. A tubing anchor including, an elongate tubular body carrying a piston, a wedge carried by the body, slips cooperating with the wedge, and operating means for the slips including, a barrel surrounding the body with clearance and with the piston slidably engaged therein, a spring around the body and within the barrel normally yieldingly urging the barrel in one direction along the body, and a head closing one end of the barrel, there being a port in the body admitting fluid from within the body to within the barrel between the head and piston.

2,532,419
SCARF JOINT GLUING PRESS
Henry H. Payzant, Seattle, Wash., assignor, by mesne assignments, to Timber Structures, Inc., Portland, Oreg., a corporation of Delaware
Application July 8, 1946, Serial No. 681,943
10 Claims. (Cl. 144—281)

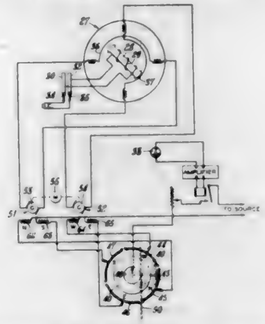


1. In a scarf joint gluing press the combination comprising a fixed clamping member having a length somewhat greater than the length of the scarf on the board ends, a pin fixedly mounted in a spaced relation forwardly of said fixed clamping member a distance slightly greater than the thickness of the boards, and a movable clamping member for cooperatively clamping the overlapped scarfed board ends against said fixed clamping member and a slot in said second clamping member for cooperatively receiving said pin.

2,532,420
VENTILATOR DEVICE FOR KITCHEN RANGES
William A. Pledger, San Francisco, Calif., assignor to Mangrum Holbrook and Elkus, San Francisco, Calif., a corporation of California
Application June 19, 1945, Serial No. 600,337
8 Claims. (Cl. 126—299)

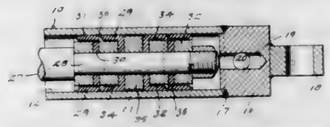
1. In a ventilator device for a cooking range, the combination with the cooking surface and oven of said range; of a hood formed of a back wall, a top, front walls, and end walls, and having an inlet formed at the bottom thereof spaced above the cooking surface of said range, a filter wall extending across the passage in said hood from one end wall to the other and from the front wall to the back wall, said hood having an outlet for conducting air passed through said filter wall, said filter wall being adapted to trap grease and impurities from the air passing therethrough, a hollow conduit extending from the oven of said range to the inlet of said ventilator, and means to regulate the flow of air and fumes from said oven through said conduit.

2,532,421
LINE TRACKER CONTROL
Edward Rathje, Jr., Cranford, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application June 19, 1946, Serial No. 677,807
11 Claims. (Cl. 318—162)



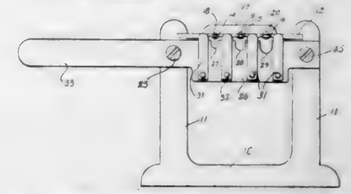
11. Apparatus for line tracker control, which comprises a steerable member having a tracer thereon comprising a rotary shutter having an eccentric orifice interposed between a source of light and a photoelectric cell, a first motor coupled to said steerable member for propelling the same over a plane surface, means for relatively moving said tracer and a contour as said tracer is propelled along the contour, means for generating voltages in space quadrature controlled by said photoelectric cell in accordance with changes in direction of said contour with respect to said tracer, and a second motor coupled to said steerable member for steering the same, said second motor having separate windings spaced ninety degrees apart and energized respectively by said voltages, and said means for relatively moving said tracer and contour comprising a third motor for rotating said shutter.

2,532,422
HYDRAULIC RAM AND SEALING RINGS
Walter B. Richardson, Bridgton, Maine
Application October 2, 1946, Serial No. 700,674
1 Claim. (Cl. 309—33)



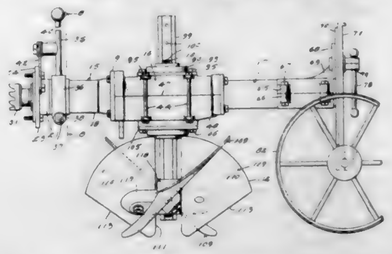
In a hydraulic ram having a cylindrical body, a piston rod slidable in said body, said rod formed with a reduced diameter portion on the end thereof in said body, a pair of sealing rings on said reduced diameter portion of said rod, a second pair of sealing rings on said reduced portion, a spacer between said pairs of rings, each of said sealing rings having a disc shaped base portion and an annular flange extending from the periphery of said base in a direction away from said spacer, washers on said piston rod within said sealing rings, said washers having a depth slightly less than the depth of said flanges and a diameter less than the diameter of said flanges for providing a space between said washers and said rings, the base of each of said rings being clamped between adjacent washers, the outermost only of said rings being formed with an orifice through the base communicating with the space between the adjacent washer and ring and means securing said washers and said rings on said rod.

2,532,423
JEWEL-SETTING TOOL
Leslie Rigney, Detroit, Mich.
Application May 2, 1947, Serial No. 745,366
3 Claims. (Cl. 81—7)



1. In a jewel-setting tool, a frame, a top plate mounted on said frame, said top plate formed with a jewel receiving groove thereon, a front bar secured to said frame and formed with a roller receiving recess in alignment with said groove in said top plate, spring fingers on said front bar for holding a roller in alignment with said groove, and a plunger in said groove for moving a jewel into engagement with the roller.

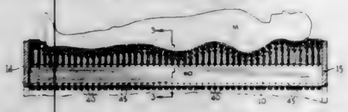
2,532,424
ROTARY PLOW
Eustace Loring Rose, Charleston, W. Va., assignor to Gravely Motor Plow & Cultivator Company, Dunbar, W. Va.
Application April 30, 1945, Serial No. 590,994
13 Claims. (Cl. 97—43)



12. A rotary plow attachment for a tractor comprising a rear tubular housing, an intermediate gear housing, a supporting member extending forwardly from said gear housing and aligning with said rear housing, a drive shaft rotatable in said rear housing, means to connect the rear housing to the gear housing, means to couple the drive shaft to the power means of the tractor, a plow shaft carried by said gear housing, at right angles to said drive shaft, means between the connecting means and rear housing to angularly adjust the latter on the drive shaft

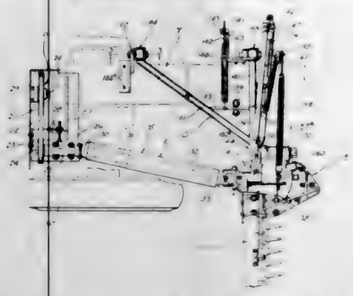
as an axis, a gear connection between said drive and plow shafts, a traction means at the forward end of said supporting member, a sleeve rotatably carried by said supporting member, a vertically slotted plate adjustably secured to the traction means with the sleeve boltingly secured to said slotted plate for adjustably securing said sleeve to said traction means whereby said supporting member may be vertically adjusted, a rear sleeve loosely disposed in said rear housing, means for securing said rear sleeve to a tractor, and means adjustably locking said rear housing and plow shaft in circumferentially adjusted position relative to said rear sleeve.

2,532,425
BED OR BODY SUPPORT
Samuel W. Schenker, New York, N. Y.
Application July 31, 1946, Serial No. 687,286
2 Claims. (Cl. 5—91)



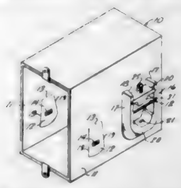
1. In a bed construction of the class described, a pair of longitudinal side rails, a plurality of relatively rigid rods transversely disposed with respect to said rails, said rods being relatively closely spaced so as to afford support to substantially all areas of the body, means for independently resiliently supporting each of said rods on said rails, means for adjusting the degree of tension of said independent resilient support means, said last-named independent resilient support means being characterized by the fact that certain selected rigid rods are supported with a lesser degree of tension than others and means whereby regardless of the degree of resilience of said resilient supporting means, said rigid rods will all be at substantially uniform level when the bed is not in use.

2,532,426
MOWER
Paul R. Schroeppel, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application July 14, 1945, Serial No. 605,004
3 Claims. (Cl. 56—25)



1. In a tractor mounted mower having a drag-bar including a journal portion extending substantially in the direction of progress of the tractor, an inner shoe pivotally associated with the drag-bar, a cutter bar rigid with the shoe, the pivotal connection including a part-spherical portion on said journal portion on which said shoe is seated and an eccentric bushing on said journal portion spaced from said part-spherical portion, shifting of said eccentric bushing serving to change the relation of said shoe and its associated parts in relation to said drag-bar, but said shoe being pivotable about said journal portion always about the center-line of said journal, whereby adjustment of said shoe by turning said bushing will affect the lead of the cutter bar while maintaining a predetermined tilt of the cutter bar when swung up-or-down about said journal.

2,532,427
ELECTRIC JUNCTION BOX AND THE LIKE AND CABLE CLAMP FOR THE SAME
Arthur L. Smith, Scotch Village, Nova Scotia, Canada
Application January 4, 1949, Serial No. 69,118
10 Claims. (Cl. 285—35.2)

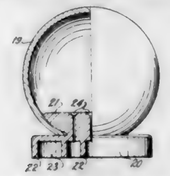


1. An electric junction box and the like and a cable clamp therefor, said box including a wall having a laterally-directed lug struck from the stock of said wall to provide a cable opening therethrough adjacent said lug, said lug comprising a stationary clamp jaw, a yoke, said yoke including a pair of legs slidably engaging opposite side edges of said lug, a bight connecting said legs together at one end to provide a movable clamp jaw, a crosshead spanning the opposite ends of said legs, actuating means for said movable jaw carried by said crosshead, said actuating means being engageable with said lug to move said yoke relative thereto in a cable-clamping direction.

2,532,428
ELLIPTICAL POLARIZATION ELECTROMAGNETIC ENERGY RADIATION SYSTEM
Carl E. Smith, Cleveland, Ohio, assignor of one-half to United Broadcasting Company, a corporation of Ohio
Application November 14, 1946, Serial No. 709,737
12 Claims. (Cl. 343—100)

5. A radio system comprising, at least a radio receiver and a radio transmitter, means for radiating from said transmitter radio energy waves which are substantially circularly polarized in all directions of radiation in at least a given plane and which have a given rotational direction, receptor means at said receiver capable of receiving said circularly polarized energy waves of said given rotational direction, and means at said receptor means for selectively rejecting circularly polarized waves of the opposite rotational direction.

2,532,429
WINDSHIELD CLEANING DEVICE
J. B. Sparkman, Dallas, Tex.
Application August 14, 1947, Serial No. 768,569
1 Claim. (Cl. 15—136)



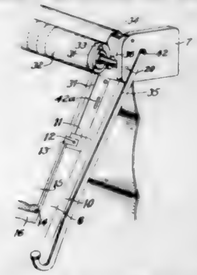
A windshield cleaning device comprising a substantially circular body of inelastic material having a work engaging surface composed of concentric rings with spaces therebetween and effective to dislodge extraneous material from a plane surface over which said device is moved, a circular and peripherally undercut boss formed integrally on said body opposite said work engaging surface having fluid passages therethrough communicating with the spaces between said concentric rings and a collapsible rubber bulb having an opening receiving said boss and effective to forcibly expel through said fluid passages liquid drawn thereinto through said fluid passages.

2,532,430
METHOD FOR PREPARATION OF VINYL SILICON CHLORIDES
Corneille O. Strother, Buffalo, and George H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
No Drawing. Application January 3, 1947, Serial No. 720,108
5 Claims. (Cl. 260—448.2)

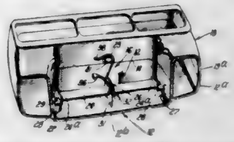
1. Process of preparing vinyl silicon chlorides which comprises reacting silicon with stannous chloride to reduce the latter and thereby produce a mix containing silicon and tin, and reacting said mix with vinyl chloride.

2,532,431
TYPEWRITER MANIFOLDING DEVICE
Anton Peter Rasmussen Thunbo, Copenhagen, Denmark, assignor to Dansk Skrivemaskinefabrik ved Foss, Rindom & Lauritzen, Copenhagen, Denmark, a firm
Application August 5, 1947, Serial No. 766,253
In Denmark May 20, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 20, 1964
4 Claims. (Cl. 197—126)

1. In a typewriter manifolding device having a frame for mounting on the platen roll carriage of a typewriter a transfer sheet holder slidably mounted on said frame for movement to and from the platen roll and a power accumulating device connected with said holder so as to accumulate power when the holder is moved toward the platen roll and deliver it again during the oppositely directed movement of the holder, a rotary member for engaging directly by friction that strip of the paper which in its further movement will directly contact the platen roll, means for transferring power from said rotary member to the power accumulating device during movement of the paper toward the platen roll, means for providing friction involving pressure for said strip with respect to said rotary member, and means for releasing the friction involving pressure between the strip and the rotary member.

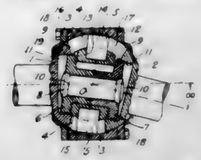


2,532,432
CASING MEMBERS OF VACUUM CLEANERS AND LATCHES THEREFOR
Edgar P. Turner, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 24, 1948, Serial No. 16,716
14 Claims. (Cl. 220—4)



4. In a vacuum cleaner having a casing formed from an upper casing shell and a lower casing shell, a single connecting means arranged to fasten said casing shells together, said single connecting means comprising a spring secured to one of said casing shells, a latch member carried by said spring, and a cooperating latch member secured to the other casing shell.

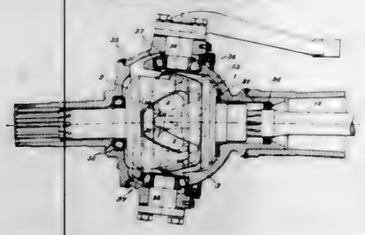
2,532,433
UNIVERSAL JOINT
Sven Gustaf Wingquist, Goteborg, Sweden
Application June 26, 1945, Serial No. 601,557
In Sweden July 4, 1944
10 Claims. (Cl. 64—21)



1. Universal joint having a single centre of deflection and comprising a driving and a driven joint member, arms on the joint members, outer spherical surfaces on the arms of the same radius, races on the arms, rollers interposed between the races, an undivided housing member surrounding the joint members and extending on both sides of a radial plane through the center of the joint, an inner spherical surface on the housing member fitting on the outer spherical surfaces on the

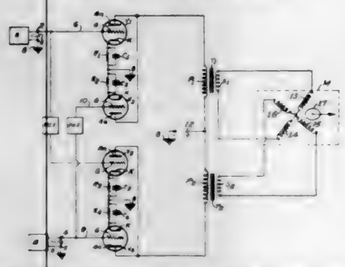
arms of the joint members, and axially directed recesses on the inside of the housing member adapted for introducing the joint members.

2,532,434
UNIVERSAL JOINT
Sven Gustaf Wingquist, Goteborg, Sweden
Application July 17, 1947, Serial No. 761,526
In Sweden August 9, 1946
1 Claim. (Cl. 64—21)



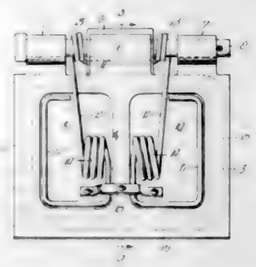
Universal joint comprising in combination a driving and a driven joint member, arms on the joint members, each arm in section having an inwardly directed and a peripherally directed portion so as to form a T, the peripherally directed portion increasing in width towards the base of the arm, races on the sides of the said inwardly directed portions of the arms, and rollers between the races for transmitting the motion.

2,532,435
FREQUENCY COMPARATOR
John Forbes Allen, Maroubra, Sydney, New South Wales, Australia, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia, a company of Australia
Application June 20, 1947, Serial No. 755,843
In Australia October 23, 1946
6 Claims. (Cl. 318—207)



2. The combination of first and second electron discharge means each including input and output terminals, first and second frequency sources, means connected to apply from said first source to the input terminals of said first and second electron discharge means potentials which are of said first frequency and are in phase quadrature, means connected to apply from said second source to the input terminals of said first and second electron discharge means potentials which are of said second frequency and are in phase quadrature, an electric motor having first and second field windings disposed in space quadrature, means connecting the output terminals of said first electron discharge means to the first of said field windings, means connecting the output of said second electron discharge means to the second of said field windings, and an armature inductively related to said field windings and movable in accordance with difference in the phase of the magnetic fields of said windings.

2,532,436
JOURNAL BOX LID
Nicholas H. Arnold, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application September 7, 1946, Serial No. 695,406
5 Claims. (Cl. 308—47)



1. In a journal box having a hinge lug projecting upwardly therefrom and provided with angularly disposed surfaces and a hinge pin associated with said lug for pivotally connecting an associated lid therewith; a unitary spring adapted to be mounted upon said lid and formed with a portion engageable with said lug to hold said lid in open or closed position upon said box, said spring having coils formed therein adjacent said portion encircling said pin on opposite sides of said lug, and other coils formed therein spaced from said portion, said lid having an extension bearing against one of said surfaces when in closed position and against the other of said surfaces when in open position, said coils cooperating to bias said lid toward closed position.

2,532,437
DYEING ACRYLONITRILE POLYMERS BY APPLYING AN INSOLUBLE AZO DYESTUFF AND THEN HEATING
Ralph B. Baker, Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 15, 1949, Serial No. 81,635
7 Claims. (Cl. 8—4)

1. A method of dyeing shaped articles comprising an acrylonitrile polymer which comprises treating the article with an aqueous dyebath containing a water-insoluble azo dyestuff selected from the group consisting of

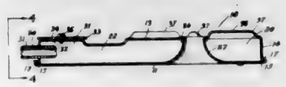
Benzene azo-m-phenylenediamine
p-Dimethyl amino azo benzene
p-Nitro benzene azo-β-hydroxyethyl aniline
p-Nitro benzene azo-β-hydroxyethyl-ethylaniline
p-Nitro benzene azo-β-hydroxyethyl-methylaniline
p-Nitro benzene azo-β-hydroxyethyl-o-toluidine
p-Nitro benzene azo-di(β-hydroxyethyl)-aniline
p-Nitro benzene azo dimethylaniline
2-methoxy-4-nitro benzene azo-β-hydroxyethyl aniline
2-methoxy-4-nitro benzene azo-β-hydroxyethyl methylaniline
2-methoxy-4-nitro benzene azo-β-hydroxyethyl o-toluidine
2-methoxy-4-nitro benzene azo-β-hydroxyethyl m-toluidine
2-methoxy-4-nitro benzene azo dimethylaniline
2,4-dinitro benzene azo-β-hydroxyethyl aniline
2,4-dinitro benzene azo-β-hydroxyethyl-ethylaniline
2,4-dinitro benzene azo-β-hydroxyethyl-methylaniline
2,4-dinitro benzene azo-β-hydroxyethyl-o-toluidine
2,4-dinitro benzene azo-β-hydroxyethyl-m-toluidine
2,4-dinitro benzene azo dimethylaniline
m-Nitrobenzene azo-β-hydroxyethyl aniline
O-methoxy benzene azo-β-hydroxyethyl aniline
2,6-dichlor-4-nitro benzene azo-β-hydroxyethyl-methylaniline

drying the dyed article, and thereafter heating the article at a temperature of from 120 to 125° C., for at least one hour.

2,532,438
PROCESS FOR SEVERING OF CONNECTED TAMPONS
Harry C. A. Behr, Delhi, N. Y., assignor to Sanitary Tampon Corporation, Chambersburg, Pa., a corporation of Pennsylvania
Application April 15, 1947, Serial No. 741,590
4 Claims. (Cl. 154—125)

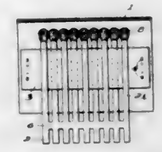
1. A process for severing of connected tampons of an absorbent cellulosic nature connected by a cord structure of a fusible plastic comprising passing a connected series of said tampons in proximity to a heated severing member, periodically tensioning said cord structure to bring the same into firm engagement with said severing member at a point immediately adjacent said tampons, and heating said severing member to a temperature sufficiently high to sever said cord but insufficient to affect tampons.

2,532,439
SHEET-METAL GAS BURNER
Albert H. Berger, Rocky River, Ohio, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 22, 1945, Serial No. 636,627
4 Claims. (Cl. 158—114)



3. A burner for fuel gas comprising a one piece cover and a one piece base both formed from sheet metal united to enclose therebetween a mixing chamber, said mixing chamber comprising a larger main portion, and a smaller end portion, both portions being generally circular in horizontal planes, and a neck portion connecting said main and end portions, said cover having a peripheral depending side wall and being generally of downwardly open cup form, said base being generally planar and spaced from the cup bottom of the cover, the peripheral edges of the base and side wall being crimped together to hold said base and cover together, the depending cup side wall of said end portion being provided with an opening to permit intake of fuel gas therethrough to said mixing chamber, the cup bottom at the end portion being provided with an air intake port, said port being variable in size by means of a mixing plate adjustably mounted thereupon, the cup bottom at the main portion being perforated to permit discharge of a combustible fuel mixture therethrough.

2,532,440
PULL MATCH PACKAGE
John Arlon Buick, Norfolk, Va.
Application October 10, 1947, Serial No. 779,028
3 Claims. (Cl. 206—29)

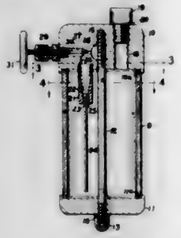


3. A pull match package comprising a flexible elongated sheet folded between its ends to provide a U-shaped cover having front and back cover parts, the inner surface of said front and back cover parts carrying near their free ends narrow strips of igniting material, a flexible separator comprising an elongated relatively narrow strip disposed substantially centrally between the front and back cover parts with its upper edge adjacent to but spaced from the fold of the cover and its lower edge spaced from the ignition strips by a distance greater than the height of a match head, means loosely securing the ends of said separator strip to the side portions of said front and back cover parts, and matches arranged in a block with severable means connecting adjacent matches near their stem ends and their heads located within the fold of said cover and above said separator strip, alternate match stems engaging the forward and rear faces of said separator strip, the separator strip being arranged to form a baffle between the heads of the matches remaining in the package and an ignition chamber formed within the cover adjacent the ignition strips, whereby any flame caused by contact of a pulled match with an ignition strip is prevented from reaching the heads of the remaining matches.

2,532,441
AIR-LINE LUBRICATOR
Parker G. Cox, Rochester, N. Y., assignor to Waldo F. Congdon
Application October 23, 1948, Serial No. 56,090
8 Claims. (Cl. 184—55)

1. In an air line lubricator of the class described, embodying a transparent bowl, a cap and a bottom on said bowl, and said cap having an air passage formed therethrough; a liquid container mounted within said bowl and adapted for receiving at one end lubricant from said bowl, and communicating at its opposite end through a passage in said head with said air passage, said container being of increasing inside diameter proceeding from its liquid receiving end to its opposite end; and a non-buoyant member loosely positioned in said container and adapted for be-

ing moved in said container to various positions of inside diameter of said container in response



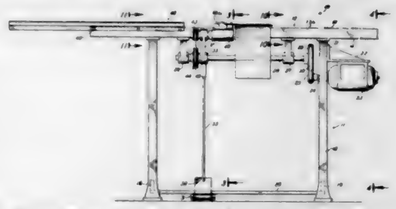
to the quantity of flow of liquid through said container.

2,532,442
MOLDED ARTICLE
Le Grand Daly, Birmingham, Mich.
Original application March 9, 1942, Serial No. 433,943, now Patent No. 2,420,522, dated May 13, 1947. Divided and this application April 2, 1947, Serial No. 738,960
3 Claims. (Cl. 2—3)

3. A one-piece helmet molded from a plurality of pieces of plastic impregnated substantially unstretchable fabric, said pieces being cut to form developments of the corresponding portions of the helmet with additional material along the adjacent edges of said developments, the hollow of said helmet being at least in one place larger than the largest opening of the helmet, said pieces having assumed as a result of molding the shape of the helmet, the meeting adjacent edges of said pieces overlapping each other for substantial distances, the outside surface of said helmet being smooth and the inside surface having molded raised spots produced by the overlaps, the thickness of the wall of the helmet in any particular place thereof being substantially proportional to the number of fabric layers thereat.

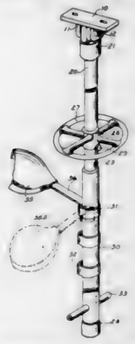
2,532,443
BOOKBINDING MACHINE
Albert Freundlich, Bronx, N. Y., assignor to Nu-Plast Binding Co. Inc., Flushing, N. Y.
Application February 19, 1947, Serial No. 729,633
17 Claims. (Cl. 11—1)

1. In combination, means for suspending a book of superposed sheets having rows of registering openings forming a row of passages through the book, including means passing through a plurality of said passages, and means



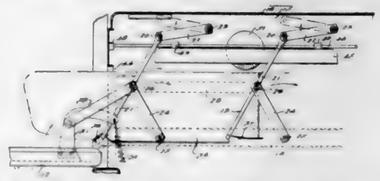
for threading a helical binder through said row of passages.

2,532,444
PLAYGROUND SWING
Carmel Germana, Cleveland, Ohio
Application November 6, 1946, Serial No. 708,130
4 Claims. (Cl. 155—58)



1. A swing, comprising in combination, a support member, a depending shaft pivotally mounted on the support member, the said shaft being non-rotatable and being swingable on one plane, the said shaft having a flange on its free lower end, a wheel fixedly mounted around the shaft between its upper and lower ends, and a tube rotatably mounted on the shaft between the wheel and flange, the said tube having an adjustable seat and foot rest thereon.

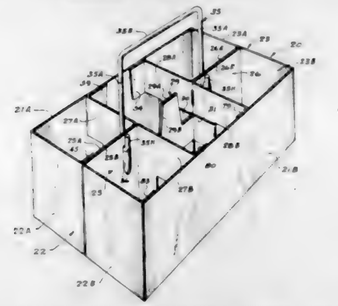
2,532,445
BROILER
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application November 13, 1944, Serial No. 563,149
15 Claims. (Cl. 126—41)



1. In a broiler compartment having a door, a plurality of links having one end pivoted near the top of the compartment, a pair of U-shaped stirrups having their upper ends pivoted to the free ends of said pivoted links, a pair of additional links pivoted at each side at the lower portion of the broiler compartment and pivotally secured

to the side portions of the stirrups intermediate the top and bottom thereof to have the length of the bottom portion substantially equal the length of the additional links, and a broiler unit supported on the bottom portion of the stirrups for movement in a horizontal plane.

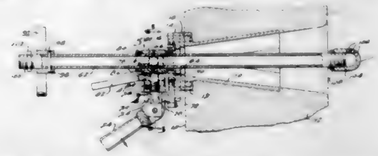
2,532,446
BOTTLE CARRIER
Maynard G. Hall, Rutherford, N. J., assignor to Empire Box Corporation, Garfield, N. J., a corporation of Delaware
Application October 2, 1947, Serial No. 777,409
7 Claims. (Cl. 229—28)



1. A pre-formed collapsible bottle carrier formed from cardboard or like material and comprising, when erected, a pair of similar bottom wall panels joined along a central fold line, a pair of side walls joined along their respective lower edges along fold lines to the respective other edges of said bottom panels, end walls for the respective ends of the carrier and each joined at opposite edges along vertical fold lines to the adjacent end edges of said side walls, each of said end walls comprising a pair of similar panels joined at their adjacent edges in a foldable relation, a pair of handle sections disposed parallel to and medially between said side walls and located in spaced relation to each other and adjacent said end walls, said handle sections each being foldably joined to said end walls at the foldable connection between the panels of such end walls, said handle panels having handle receiving openings formed respectively therein for receiving the opposite end portions of a separate handle, weight supporting and bottle separating panels extended between and foldably related to the opposite edges of each of said handle sections and each of said side walls in parallel relation to said end walls, a supporting web pivoted on vertical fold line at the half points of each weight supporting panel and formed from the material of the weight supporting panel to which it is joined, and a central bottle separating panel disposed in the plane of said handle panels and joined along vertical fold lines to two of said webs at each of the ends of said central separating panel.

2,532,447
MANUALLY OSCILLATABLE AND ROTATABLE PORTABLE SOOT BLOWER
Percy G. Handoll and Philip R. Bettle, London, England, assignors to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application July 27, 1944, Serial No. 546,831
5 Claims. (Cl. 15—316)

1. A boiler tube cleaner of the character described comprising a tube for conducting cleaning fluid, pivot means lying a plane transverse to the tube for pivotally mounting said tube whereby said tube may be oscillated in a plane transverse to the axis of the pivot means, a member pivoted on an axis normal to and in the same plane as said tube pivotal mounting, a pair of



cams on said member positioned one at each side of said member's pivotal mounting, said cams engaging said tube at opposite sides of said tube's pivotal mounting, and manual means for oscillating said member to thereby oscillate said tube through the medium of said cams.

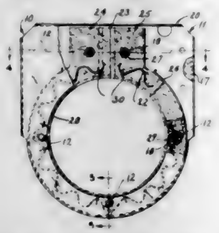
2,532,448
BELLOWS
Walter C. Hasselhorn, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application March 22, 1945, Serial No. 584,047
6 Claims. (Cl. 137—156.5)

6. An expansible and contractible unit comprising spaced annular walls defining an annular chamber, said walls consisting of a number of sectional parts constructed to form inwardly extending flexible elements whereby to permit expansion and contraction of said walls, the inwardly extending flexible elements of one wall overlapping the inwardly extending flexible elements of the other wall.

2,532,449
RAILWAY JOURNAL BOX DUST GUARD
James J. Hennessy, Montclair, N. J.
Application August 9, 1946, Serial No. 689,439
2 Claims. (Cl. 286—6)

1. In a dust guard for a journal box having a car axle journaled therein and having a dust guard pocket, a pair of plates apertured for the car axle, spring means for urging said plates apart, a felt-like pad on one of the plates for engaging the rear wall of the dust guard pocket to provide a seal between the wall and plate, a felt-like annular sheet between said plates and provided with an opening adapted to receive the car axle, a spring about the periphery of said sheet tending to contract said sheet into engagement with the car axle to provide a seal around

the same, and a spring extending sinuously between one of said plates and said sheet and extending sinuously between the inner and outer



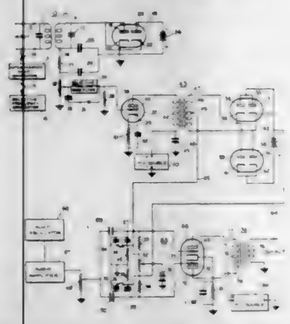
edges of said sheet and about said opening and urging said sheet into sealing engagement with the other plate substantially throughout the annulus formed by said sheet.

2,532,450

PULSE RECEPTION SYSTEM

Donald L. Hings, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware

Application August 6, 1945, Serial No. 609,260
In Canada July 20, 1945
8 Claims. (Cl. 250—20)



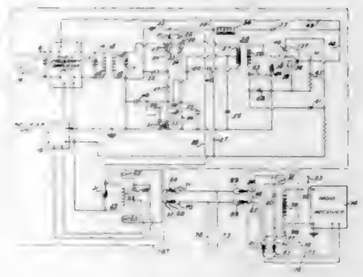
1. A radio reception system for obtaining signal intelligence from an electromagnetic carrier wave having recurring first periods with a potential less than a determinable voltage and having recurring second periods with a potential greater than said determinable voltage, said carrier wave having present therein an interference wave having an envelope of a frequency lower than said carrier wave and with said envelope having at least periodically a magnitude less than said determinable voltage, said system comprising circuit means, means for applying said carrier wave to said circuit means, a single stage detector connected to said circuit means and including first and second rectifiers connected in opposition, differential means for establishing an influencing voltage at substantially the magnitude of said determinable voltage for influencing said second rectifier to reduce the voltage output of said second rectifier, said rectifiers producing a differential output alternating voltage during said first period from energy from said interference wave and producing a differential output voltage during said second period from energy from said carrier and interference waves with said output voltage having a characteristic patterned in accordance with said influencing voltage.

2,532,451

RADIO-FREQUENCY INVERTER RELAY CIRCUIT

Donald L. Hings, Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware

Application March 20, 1946, Serial No. 655,692
9 Claims. (Cl. 250—15)



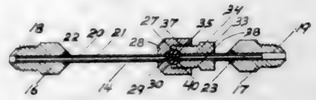
1. A radio frequency system comprising, in combination, a primary modulated carrier wave source, a secondary carrier wave source having a frequency different from the frequency of the primary carrier wave source, means for detecting the modulated energy wave of the primary modulated carrier wave source, an amplifier circuit including an amplifier tube having a cathode, a plate, and a grid, a biasing element through which the detected modulated energy wave flows, means for connecting the biasing element to the cathode, means for exciting the grid from the secondary carrier wave source, an output circuit connected to the plate having energy appearing therein which comprises both radio frequency from the secondary carrier wave source and a low frequency which is inverse to the modulated wave of the primary modulated carrier wave source, and means for also connecting the grid to the biasing element whereby the output energy in the output circuit varies in time in sympathy with the energy of the primary carrier wave source.

2,532,452

EXTERNALLY ADJUSTABLE TUBULAR FLUID FLOW RESTRICTOR FOR REFRIGERATION SYSTEMS

Anthony F. Hoesel, Chicago, Ill., assignor, by mesne assignments, to Albert Wittlin, Chicago, Ill.

Application June 14, 1945, Serial No. 599,489
2 Claims. (Cl. 138—45)



1. An externally adjustable tubular fluid flow restrictor assembly for passing a controlled volatile refrigerant fluid flow to a cooling unit, which comprises the combination of a fine bore compressible metal tube, of given length, hermetically sealed to an inlet fitting and to an outlet fitting, an outer short length ferrule on the tube intermediately of the inlet and outlet fittings, and two inter-engaged threaded compression members mounted on the tube at opposite ends of the ferrule and arranged to engage the same and capable of compressing both the ferrule and the tube wall during wrench-up, so that the tube bore may be contracted for controlling the flow rate of the volatile refrigerant fluid through the assembly.

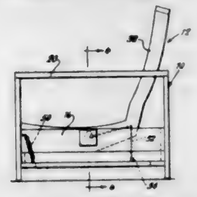
2. For interposition in the liquid circuit of a refrigeration system having an evaporator, a pressure restrictor comprising a tube of compressible metal having a potential refrigerant liquid flow rate in excess of the vaporizing capacity of the evaporator, and compression means comprising a ferrule arranged on the tube between the ends thereof, said ferrule being oppositely tapered toward its ends, and two inter-engaged threaded compression members slidably mounted on the tube at opposite ends of the ferrule and having tapered portions arranged to engage the tapered portions of the ferrule and capable of relative adjustment to compress the ferrule radially to reduce the size of the opening in the ferrule and compress the tube inwardly and reduce the diameter of the bore and simultaneously increase the wall thickness of the reduced portion of the tube.

2,532,453

CHAIR HAVING A TILTING SEAT AND BACK UNIT

Paul A. James, Louisville, Ky.

Application September 18, 1946, Serial No. 697,785
6 Claims. (Cl. 155—77)



1. A rocker comprising a supporting frame, a seat and back unit, pivot means mounting said seat and back unit upon said supporting frame, means for adjusting the position of said pivot means, said frame including spaced lateral supporting members, said seat including spaced lateral members parallel to and received within said frame supporting members, said pivot means including an axle mounted in said frame lateral members and said seat lateral members, each of said lateral members having a set of contiguous axle receiving notches, the sets of notches in said frame lateral members being inversely positioned but registering with the sets of notches in said seat lateral members.

2,532,454

ELECTRICAL CONNECTOR

Stanley E. Kane, Pittsburgh, Pa., assignor to Mosebach Electric & Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 29, 1949, Serial No. 90,345
2 Claims. (Cl. 200—115.5)

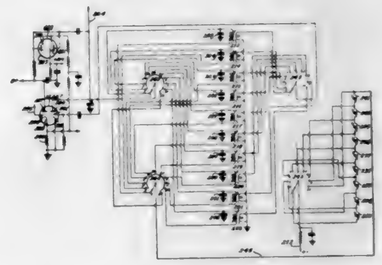
1. An electrical connector comprising a tubular insulating casing having a fuse socket and a conductor in one end thereof, a plug having screw-threaded connection with the other end of the casing, to serve as a removable closure therefor, a clutch element on this other end of the casing, a fuse socket on the inner end of the plug, a shank carried by and projecting outwardly from the plug, a clamping member rotatably carried by the shank, a second clamping member carried by the shank and threaded thereon in position to be moved toward or from the other clamping member, when the casing and the plug are rotated as a unit and the clamping members are held against rotation, and means for releasably locking the plug against rotative movement relative to the casing, during rotation of the casing to operate the clamping members, the last-named means comprising a clutch collar non-rotatable on the shank and slidable thereon into and out of locking engagement with the clutch element on the end of the case, whereby the casing can be unscrewed from the plug without operating the clamping members.

2,532,455

OSCILLATION GENERATOR

Olin L. MacSorley, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 23, 1947, Serial No. 743,266
1 Claim. (Cl. 250—36)



The combination of an oscillation generator having anode and grid circuits, a plurality of tuning units each including primary and secondary windings and each tuned to frequencies separated by equal and relatively wide steps, means for applying operating potential to said anode, circuit control means operable to successive closed positions for successively connecting each of said units to said oscillator so that said operating potential is applied to said anode through its primary winding and its secondary winding is connected in said grid circuit, a plurality of inductors having constants adapted to change the frequency of said generator by steps which are submultiples of said relatively wide steps, and circuit control means for selectively connecting different ones of said inductors between said operating potential applying means and said primary windings.

2,532,456

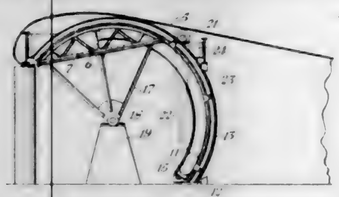
AIRPLANE HANGAR DOOR CONSTRUCTION

Glenn W. Merritt, Bowerston, Ohio

Application May 14, 1945, Serial No. 593,709
8 Claims. (Cl. 20—16)

1. In door construction, a door member, an inwardly projecting frame carried by said door member, means for pivotally mounting the inner end of said frame for swinging movement about a horizontal axis, an arcuate extension movable

bodily with said door member and forming a component part thereof, a vertically disposed cantilever-type supporting post structure having one end thereof secured to a stationary foundation and disposed immediately adjacent to said door member extension in concentric relation about the



axis of turning movement of said door member, an arcuate guide formed by said post structure, antifriction devices carried by said extension and engageable in the guide of said post structure, and counterbalancing means for said member carried by said extension.

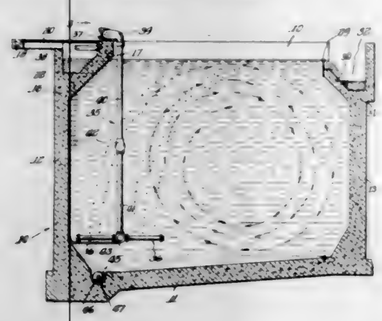
2,532,457

METHOD AND APPARATUS FOR REMOVING GRIT

Philip F. Morgan, Elmhurst, and Charles E. Lawrenz, Chicago, Ill., assignors to Chicago Pump Company, a corporation of Delaware

Application March 1, 1945, Serial No. 580,460

11 Claims. (Cl. 210—3)



1. An apparatus for removing grit and other heavy solids from a liquid containing the same in suspension comprising a tank having a bottom and side walls, an inlet adjacent the top of one of said side walls through which the grit-containing liquid is entered into the tank, an overflow weir for maintaining the liquid within the tank at a desired level and an outlet for the liquid in communication therewith, said overflow weir and said outlet being remote from said inlet, means to introduce air into the body of the liquid from a region above the bottom of the tank and adjacent the said inlet wall thereof to circulate the liquid in a generally vertical plane in the direction of said overflow weir, a trough in the tank bottom beneath the said air introducing means into which heavy solids which precipitate from the body of the liquid are carried by the circulating liquid, conveying means in said trough to move the solids to one end of the trough, a sump at the said one end of the trough into which the solids from the trough are delivered and means to remove the solids from the sump.

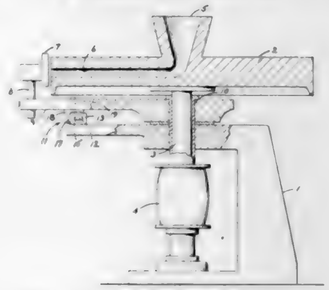
2,532,458

STAPLE FIBER CUTTER

Harry E. New, Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application August 25, 1947, Serial No. 770,434

5 Claims. (Cl. 164—38)



1. Cutting apparatus comprising a rotatable disc-like shear member having a channel for guiding material to be cut outwardly through the disc periphery, a knife having a cutting edge adjacent the periphery of the shear member for cutting the material, a support for the knife, means for mounting the support for rotation on the axis of the shear member, means for rotating the shear member, a stationary frame member, and shock-absorbing means interconnecting the support with the frame member for permitting a limited swinging motion of the support.

2,532,459

STRIP TICKET AND METHOD OF MAKING AND APPLYING THE SAME

Floyd H. Ogden, Arlington, Mass., assignor, by direct and mesne assignments, to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts

Application October 1, 1946, Serial No. 700,511

7 Claims. (Cl. 40—2)

1. The method which comprises adhesively securing a pair of superposed sheet material pieces to each other along a median zone while free from each other adjacent to side edges on opposite sides of said zone, applying the pair of pieces to the surface of a fabric, placing a length of thread with its ends lying between said pieces at said free edges and its intermediate portion extending through one of said pieces on each side of said median zone and extending into and beneath the adjacent face of the fabric, and then adhesively securing said free edge portions and said thread ends together.

2,532,460

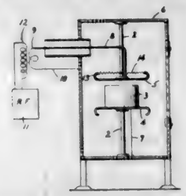
HIGH-FREQUENCY APPARATUS FOR DRYING MATERIALS ELECTROSTATICALLY

John E. Phillips, Jr., Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application December 24, 1947, Serial No. 793,682

4 Claims. (Cl. 219—47)

1. Apparatus comprising spaced electrodes, means for impressing a high frequency current across the electrodes, and a resistance element disposed in the field adjacent one of the electrodes receiving current exclusively from the field to heat the electrode thereby, at least one end



of the element being connected conductively to the electrode.

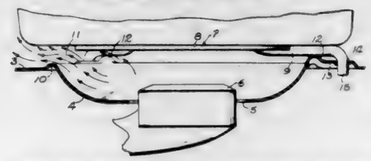
2,532,461

COMBINATION GRATE AND BURNER BOWL STRUCTURE FOR GAS COOKSTOVES

Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts

Application August 30, 1945, Serial No. 613,478

6 Claims. (Cl. 126—214)



3. In a gas cookstove, the combination of a sheet metal top plate having a depressed burner bowl with a burner opening therein, a grate for supporting a cooking utensil above the burner opening and in spaced relation to the top plate, projections extending above the surface of said top plate externally of said burner bowl, said grate comprising a disk having a plurality of radially projecting arms adapted to rest on said projections, and cooperating means on said arms and said top plate for maintaining said arms in alinement with said projections.

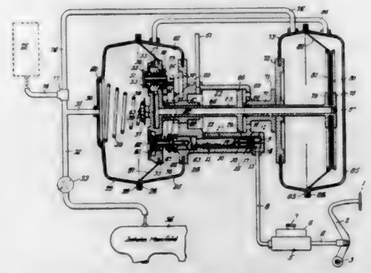
2,532,462

COMPACT POWER UNIT

Edward A. Rockwell, Shaker Heights, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application August 22, 1945, Serial No. 611,984

10 Claims. (Cl. 60—54.6)



1. A power unit comprising a connection on the power unit adapted to be connected to a source of pressure differing from the atmospheric pressure, a movable wall, an auxiliary movable wall on the same axis as the first-mentioned wall, chambers for both said walls, valve means controlling the application of said pressure and atmospheric air to each of the movable walls, manual hydraulic means for operating the valve means, and a hydraulic intensifier piston and cylinder located between the chambers of said movable walls, having a hydraulic connection to a device for performing work.

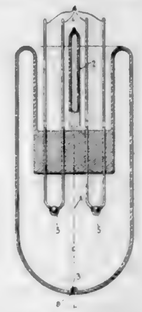
2,532,463

TEMPERATURE CALIBRATED METAL VAPOR DISCHARGE LAMP

Rudolf W. Samer, Elizabeth, N. J., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J., a corporation of New Jersey

Application March 23, 1949, Serial No. 83,004

4 Claims. (Cl. 176—122)



1. A metal vapor discharge lamp for maintaining substantially uniform intensity under changing ambient temperatures, comprising a light transmissive glass envelope containing at least a normally liquid vaporizable metal and a pair of spaced electrodes, said envelope having an inverted dome-shaped portion, the inner surface of said dome-shaped portion being concave, said electrodes being spaced from said inner surface so that the distance from a point between said electrodes to a location at the vertex of said concave inner surface is greater than any other distance from said point to any other location on said concave inner surface, a rotatable mounting means for said lamp, said rotatable mounting means having a rotational axis perpendicular to a vertical line from said point to a location on the said inner surface of said dome-shaped portion, said metal being displaceable along the said inner surface upon rotation of said mounting and the distance between said point and said metal being thereby changeable for regulating the rate of vaporization of said metal to maintain substantially uniform intensity.

2,532,464

CORNER STRUCTURE

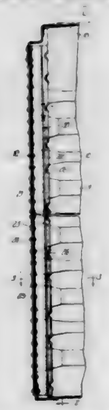
Edgar E. Schlesinger, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application February 1, 1949, Serial No. 74,018

3 Claims. (Cl. 105—410)

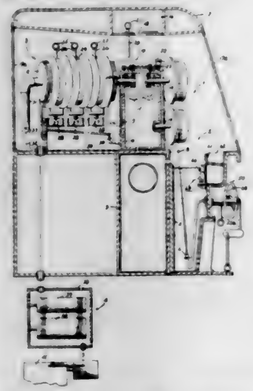
1. In a railway car having an end wall comprising a body part provided with a side flange extending substantially normal to the general plane of said wall and a plurality of spaced parallel horizontal corrugations extending to and merging into said side flange, a corner stiffener

comprising angularly disposed arms, means to secure the flange of said wall sheet to one of said arms, a flange along the other of said arms positioned flatwise against the apices of said corrugations and spanning the spaces therebetween, a portion of the parts of the stiffener flange which rest against said apices being cut away, and weld-



ments securing the edges of said cut away portions to the apices of said corrugations and the material adjacent thereto contacted by said edges, whereby when said end wall is subjected to bulging loads a portion of said weld metal will be in compression, thereby increasing the effectiveness of said weldments.

2,532,465
METHOD FOR SPINNING ARTIFICIAL FILAMENTS
Richard W. Stanley, Lakewood, Ohio, assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Original application April 22, 1944, Serial No. 532,328. Divided and this application November 3, 1949, Serial No. 125,188
5 Claims. (Cl. 18—54)

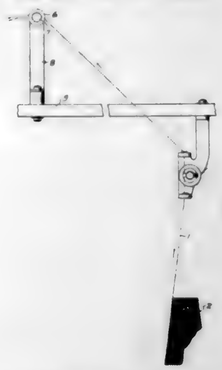


1. A method of producing artificial thread comprising the steps of spinning the thread generally vertically upwardly through a coagulating medium, passing the thread through a generally helical path outside the medium while permitting further coagulation by medium carried thereby, then passing the thread approximately horizontally through a plasticizing medium, stretching the thread during its horizontal travel, then passing the thread through a single continuous helical path, and subjecting the thread in succeeding zones of the helix to each of a plurality of treating liquids.

2,532,466
REINFORCED SHEET METAL ROOF
Robert Stemmons, Middletown, Ohio, and Walter L. Edel, Louisville, Ky., assignors to Clayton & Lambert Manufacturing Company, Louisville, Ky., a corporation of Delaware
Application July 21, 1947, Serial No. 762,252
8 Claims. (Cl. 108—32)

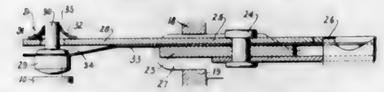
1. A reenforced sheet metal structure comprising a plurality of sheets having the opposite edges thereof bent to form hooked edges; a reenforcing member having a laterally extending portion overlying the proximate hooked edges of adjacent sheets and a median portion extending therefrom and received between adjacent sheets; and a connector strip having hooked edges overlying said laterally extending portion and interlocking with the hooked edges of said adjacent sheets.

2,532,467
METHOD FOR CONTROLLING YARN
Eugene St. Pierre, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application December 11, 1947, Serial No. 791,051
1 Claim. (Cl. 66—146)



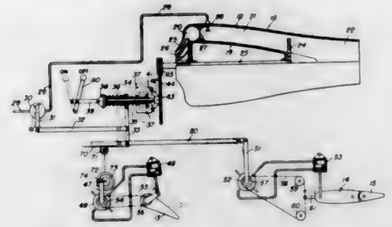
A method of controlling a length of twisted nylon yarn running from a source of supply to a point where it is used progressively, such as to a knitting needle, under conditions causing an alteration in the twist of said yarn and a consequent tendency to pigtail if slack occurs adjacent said source of supply, which includes the steps of drawing said yarn from the source of supply under no tension other than that resulting from the withdrawing of said yarn to a tensioning device and thereafter forming a loop in said yarn and maintaining said loop in a single plane to prohibit transmission of alterations in yarn twist and consequent tendency to pigtail in the length of yarn between said source of supply and said tensioning device.

2,532,468
MOVABLE CONTACT STRUCTURE
Russell P. Sweger, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application May 31, 1945, Serial No. 596,908
1 Claim. (Cl. 200—166)



In a movable contact structure for a sensitive relay having an armature movable through only a few degrees of arc, the combination comprising an elongated supporting arm fashioned from sheet material and mounted on said armature in freely projecting position for broadwise swinging movement, said arm having an aperture in its free end portion, a contact having a stud on its rear side dimensioned to project freely through said aperture, a cooperating fixed contact, a resilient spring finger having a body portion and an end portion mounted on said arm, said end portion engaging said contact to urge the same outwardly with respect to the aperture, a collar member on said stud embracing the rearwardly projecting portion thereof and positioned to span said aperture and hold said stud captive thereon, the body portion of said resilient spring finger being positioned to lie flatly alongside said arm with the end portion thereof bent outwardly therefrom at a point closely adjacent the contact to provide a short radius of swing therefor so that appreciable wiping movement occurs between said contacts even under very limited swinging movement of the armature, said collar member being so positioned on said stud as to retain the end portion of said spring preloaded against movement in the inward direction.

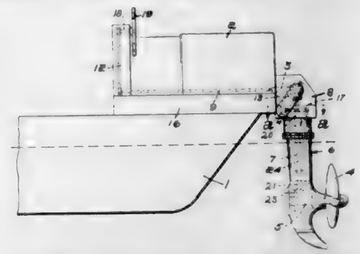
2,532,469
AIRPLANE CONTROL SYSTEM
Walter C. Trautman, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 13, 1945, Serial No. 610,625
6 Claims. (Cl. 244—76)



1. A control system for a jet engine having means for supplying fuel to the engine at a controlled variable rate and means for supplying combustion air at a rate dependent upon the speed of the engine, said system comprising: a throttle; an actuating member connected to the fuel supply means for varying the rate of fuel supply to the engine; spring means applying a force to said actuating member to urge it in direction to reduce the rate of fuel supply; means for varying the loading of said spring means in response to movement of said throttle; and means responsive to the speed of the engine for increasingly opposing the force exerted on said actuating member by said spring means as the speed of the engine increases; whereby the rate of fuel supply to the engine is jointly responsive to the setting of the throttle and the speed of the engine.

5. In a jet-propelled airplane having a jet engine displaced from the center of drag of the airplane and having a stabilizer for trimming the airplane, said engine having a turbine-driven blower: a throttle for said engine; a fuel control member for varying the rate of fuel supply to the engine; spring means applying a force to said member to urge it in such direction as to reduce the rate of fuel supply; means for varying the loading of said spring means in response to movement of said throttle; means responsive to the speed of the blower for increasingly opposing the force exerted on said member by said spring means as the speed of the blower increases; whereby the rate of fuel supply to the engine is jointly responsive to the setting of the throttle and the speed of the blower; and means coupling said member to said stabilizer for varying the setting of said stabilizer to compensate for changes in the torque resulting from variations in the speed of the blower, and the throttle setting.

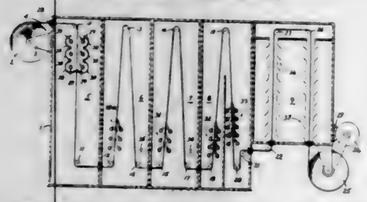
2,532,470
OUTBOARD PROPELLER MECHANISM FOR BOATS WITH ECCENTRICALLY MOUNTED SHAFT HOUSINGS
Arthur W. Wanzer, Quincy, Mass., assignor to Murray & Tregurtha, Inc., Quincy, Mass., a corporation of Massachusetts
Application May 28, 1948, Serial No. 29,710
2 Claims. (Cl. 115—35)



1. Propeller mechanism for boats comprising a vertically extending propeller-supporting member, a propeller carried by said member, means for operating the propeller including a driving shaft extending longitudinally of the propeller supporting member and a horizontal propeller shaft on which the propeller is mounted, said propeller supporting member having an upper section and a lower section separable from said upper section, said driving shaft presenting an upper shaft section journaled in the upper section of the propeller supporting member, a lower shaft section journaled in the lower section of said propeller supporting member, and an intermediate section connecting said upper and lower shaft sections, the axes of the upper and lower shaft sections being parallel but having a permanent fixed offset relation in a lateral direction and the axis of the lower shaft section intersecting that of the propeller shaft, means for turning the propeller supporting member bodily about the axis of the upper shaft section to steer the boat, and means detachably connecting the upper and lower sections of the propeller supporting member with the propeller shaft in any

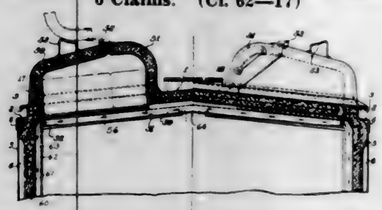
one of various radial positions relative to the axis of the lower shaft section, thereby to vary the amount which the propeller shaft is offset from said vertical axis.

2,532,471
SPRAY APPLICATION OF DYESTUFF AND OTHER MATERIALS
Frederick C. Wedler, Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 10, 1947, Serial No. 740,639
5 Claims. (Cl. 68—5)



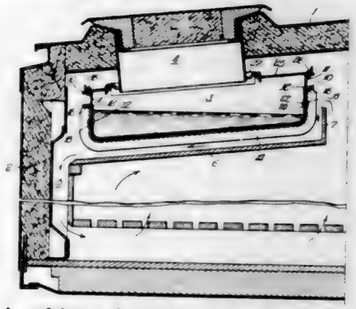
1. Apparatus for treating fabrics comprising a plurality of juxtaposed chambers including a primary treating chamber, a drying chamber, and at least one treating chamber intermediate of the primary and drying chambers, each intermediate chamber having entrance and exit passages in opposite walls thereof, rollers within the chamber, one roller being adjacent each of the passages for guiding the fabric proceeding therethrough, and at least one other roller being mounted on an axis displaced from the plane of the axes of those adjacent the passages for guiding the fabric through a devious path through the chamber, a fabric exit passage in the wall of the primary chamber registering with the fabric entrance passage of the adjacent intermediate chamber, a fabric entrance passage in the wall of the drying chamber and a roller associated therewith adjacent the fabric exit passage of the adjoining intermediate chamber, and means adjacent the fabric path in the primary and intermediate chambers for spraying treating liquids in controlled amounts directly upon the fabric.

2,532,472
REFRIGERATOR CAR HATCH CONSTRUCTION
Victor E. West, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 10, 1946, Serial No. 689,665
6 Claims. (Cl. 62—17)



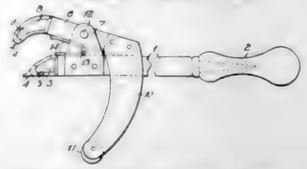
2. A combined hatch frame and refrigerant bunker structure for a railway refrigerator car, said structure comprising a metallic sheet having a hatch frame formed within said sheet providing a hatch opening therein, the walls of said hatch frame projecting downwardly considerably below the plane of said sheet so as to also form the walls of a refrigerator bunker, inner carlines secured at their ends to certain of said walls, and a car ceiling secured to the underside of said inner carlines.

2,532,473
REFRIGERANT CONTAINER FOR RAILWAY CARS
Kurt E. Zeidler, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 9, 1945, Serial No. 598,507
2 Claims. (Cl. 220—71)



2. A refrigerant container for use in a railway refrigerator car, said container comprising a bottom, spaced apart side and end walls, a pair of spaced apart purlins forming part of said spaced apart side walls, a plurality of spaced U-shaped stiffeners each underlying the bottom of said container and extending upwardly adjacent the sides of said container and secured at their ends to said purlins to support said container under load, spacer means positioned at spaced points between and secured and sealed to said U-shaped stiffeners, spacer means aligned with said first mentioned spacer means and secured and sealed to said container, and fastening means passing through the stiffener, both spacer means and the container, whereby to secure said parts together and to maintain said container in spaced relation to said stiffeners.

2,532,474
NAIL EXTRACTOR
Amable Alvarez Vazquez, Buenos Aires, Argentina
Application June 14, 1947, Serial No. 754,694
In Argentina June 21, 1946
4 Claims. (Cl. 254—22)

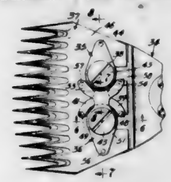


1. A nail and spike extractor comprising in combination a first substantially rectilinear lever; a handle provided at one end of said first lever; a tooth provided at the other end of said first lever; a pair of bearings; a pair of spaced supports for said bearings, said supports being carried by said first lever and projecting therefrom; an axle maintained in said bearings, the said axle being arranged at right angles with respect to said bearings; a second lever pivoted on said axle, the said second lever having a first substantially rectilinear portion and having a second portion connected to the rear end of said first portion and extending therefrom substantially at right angles and being directed toward said first lever and extending beyond the same; a jaw provided at the front end of said first portion of said second lever, the said jaw curving toward said first lever; and a roller mounted for free rotation on the rear end of said second portion of the second lever.

2,532,475
ALKYD RESIN STABILIZED WITH AN N-ARYL-HYDROXY-3-NAPHTHAMIDE
Thomas F. Anderson, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application August 29, 1949, Serial No. 113,019
6 Claims. (Cl. 260—45.9)

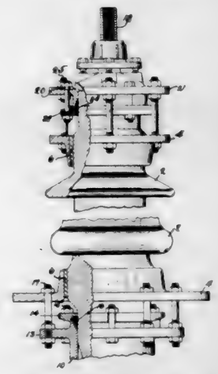
1. A stabilized thermosetting composition, comprising (1) a polymerizable unsaturated alkyd resin; (2) a catalyst of the class consisting of organic peroxides and organic ozonides; and, (3) as an agent for increasing the stability of the composition at atmospheric temperatures without proportionately decreasing the curability of the composition, an N-aryl-hydroxy-3-naphthamide in which each nitrogen atom is connected only to atoms other than nitrogen and oxygen, and in which any halo substituent has an atomic weight greater than 35; carried on a filler in contact with air.

2,532,476
DEFLECTION EQUALIZING MEANS FOR SHEARING COMBS
Edwin S. Bartlett, Forest Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application August 16, 1948, Serial No. 44,566
6 Claims. (Cl. 30—221)



3. In a shearing handpiece, the combination of a handle, a comb projecting outwardly from the handle and having a base portion seated on said handle, a blade movable back and forth across said comb between extreme lateral positions, tensioning means engageable with the blade for applying a pressure thereto to urge the blade into engagement with the comb throughout its path of travel, a first forked member having projections on each of its arm portions engageable with the base portion at spaced axial positions disposed centrally thereof and having a projection on its stem portion engageable with the base portion along one lateral edge thereof, a second forked member having projections on each of its arm portions engageable with the base portion at spaced axial positions disposed centrally thereof and having a projection on its stem portion engageable with the base portion on its other lateral edge, and means for securing the forked members and the comb to the handle so that the forked members are under stress and the projections are constantly urged into engagement with the comb to provide a reinforcement for the comb for preventing displacement thereof at either lateral edge or an intermediate position during the movement of the cutter between its extreme positions.

2,532,477
TERMINAL FOR ELECTRIC POWER CABLE SYSTEMS
Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Application December 15, 1945, Serial No. 635,344
1 Claim. (Cl. 174—19)

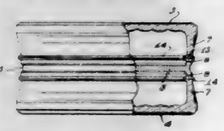


A terminal for terminating electric power cable systems, said terminal comprising, in combination, a fluid-filled insulator for the reception of the conductor to be terminated, a flanged cap piece resting upon the top of the insulator; a mounting ring encircling and permanently sealed to the insulator adjacent each end of the insulator; a sealing gasket and a compression ring therefor encircling the insulator adjacent its lower end; a sealing gasket and a compression ring therefor encircling the upper end of the insulator below the mounting ring and cap piece at this end of the insulator; bolts passing through the flange of the cap piece and the adjacent compression ring for compressing said gasket; bolts passing through the cap piece flange and bushing mounting ring for securing the cap piece in place; a hollow member at the lower end of the insulator through which the cable conductor extends to the top of the interior of the insulator; a flange encircling the said hollow member at its upper end; a sealing gasket and a compression ring therefor encircling the insulator between the adjacent insulator mounting ring and the lower end of the insulator; bolts passing through the last-mentioned compression ring and the adjacent insulator mounting for compressing said gasket; and bolts passing through the flange of the hollow member and the adjacent insulator mounting ring for attaching the insulator to the hollow member.

2,532,478
BUILDING BLOCK
Donald A. Bridges, Muncie, Ind., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application January 11, 1945, Serial No. 572,362
6 Claims. (Cl. 72—41)

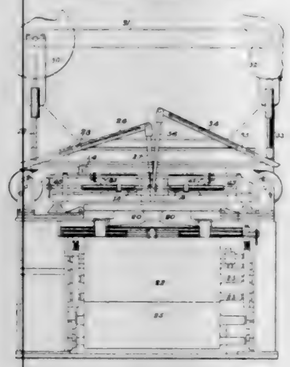
1. A glass building block comprising an upper, a lower, and an intermediate section, each formed with vertically disposed marginal flanges, all of said flanges being in vertical alignment and positioned with the flanges of the upper and lower sections abutting the flanges on the intermediate

section and welded thereto, the edge portions of the said flanges being spread to form beads ex-



tending along the lines at which the flanges abut and thereby enlarging the area of the weld.

2,532,479
METHOD AND MACHINE FOR GLUING AND FOLDING PAPER BOXES
Frank H. Burgess, Philadelphia, Pa.
Application January 8, 1947, Serial No. 720,803
8 Claims. (Cl. 93—49)

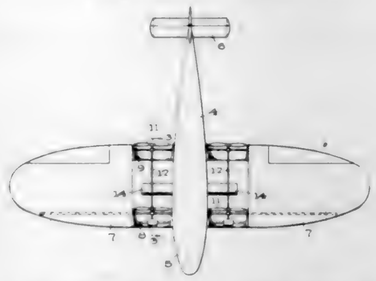


1. A machine for folding and gluing paper box blanks, said blanks comprising bottom portions, side walls, end walls and oppositely projecting ears extending from two of said walls, which machine comprises pairs of spaced glue-applying means, plungers to force a blank between said glue-applying means so that glue is applied to the blank's ears and said ears are simultaneously folded angularly from the plane of the blank, whereby they are capable of being folded between said intervening walls, a spaced pair of blank bottom-folding rolls, a pair of pilot rolls, a central plunger to successively force the blank between and past said folding and pilot rolls, a pair of oppositely inwardly extending stationary folders to reversely fold as gussets the ends of the blank inwardly and the blank's ears between its other walls, and means to thereafter compress the blank so that the glued ears adhere to the blank's intervening walls.

2,532,480
POWER DRIVEN TOOTHBRUSH
John F. Cannon, Springfield, Ill.
Application July 26, 1947, Serial No. 763,900
12 Claims. (Cl. 15—24)

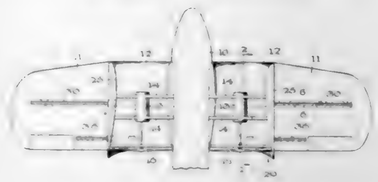
8. A tooth brush comprising a casing providing a magazine for a dentifrice and a shaft housing, a hollow brush rotating shaft journaled in said casing, a reversing motor for driving said hollow shaft in either direction, a spiral conveyor mounted on said shaft in said magazine and there being a valve controlled inlet port to said hollow shaft adjacent each end of the spiral conveyor through which port the spiral conveyor feeds dentifrice to the hollow shaft, and manually operated clutch means for clutching the spiral conveyor to the hollow shaft.

2,532,481
MULTIPLE CHANNEL WING AIRPLANE
Willard R. Custer, Hagerstown, Md.
Application October 9, 1946, Serial No. 702,211
5 Claims. (Cl. 244—12)



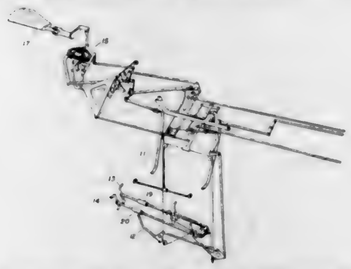
1. An aircraft having a lifting surface, said lifting surface being provided with multiple upwardly opening channels, the channels arranged at intervals in axial alignment from the front to the rear edge of the surface, propellers mounted on said surface, one being operable aft of each channel, each of said propellers being disposed to produce a rearward flow of air over the inside channel wall, the plane of rotation of each propeller disc being substantially in the transverse plane defined by the rear edge of its respective channel, the rear edge of each channel generally coinciding with the lower half of the periphery of the respective propeller disc.

2,532,482
BOUNDARY LAYER REMOVER FOR AIRPLANES
Willard R. Custer, Hagerstown, Md.
Application August 6, 1947, Serial No. 766,587
3 Claims. (Cl. 244—12)



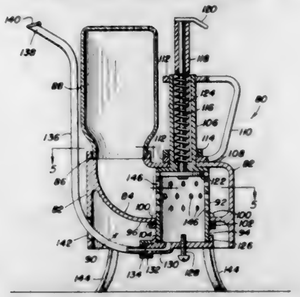
1. In an airplane wing: an upwardly-opening fore-and-aft-running channel portion, and a propeller mounted to rotate therein and disposed in such manner as to be effective to produce a rearward flow of air over the inside channel wall; a second wing portion adjacent the channel portion, being provided with a boundary layer removal slot; and a conduit leading from said slot to an opening in the channel portion immediately behind the plane of rotation of the propeller.

2,532,483
CONTROL FOR TANDEM ROTORED HELICOPTERS
Elliot Daland, Wallingford, and Donald N. Meyers, Philadelphia, Pa., assignors, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa., a corporation of Pennsylvania
Application January 2, 1948, Serial No. 216
3 Claims. (Cl. 170—135.24)



1. A helicopter control system comprising two equivalent lift rotors mounted in tandem, each of said rotors having one or more blades and being provided with blade pitch changing means, pilot actuated means for controlling the attitude of the helicopter about its pitching axis, means connecting the pilot actuated means to said blade pitch changing means to simultaneously increase the pitch of the blades of one rotor and decrease the pitch of blades of the other rotor on imparting one kind of movement to the pilot actuated means, said connecting means and rotor blades being so adjusted that the angle of incidence of the rear rotor blades is greater than the angle of incidence of the forward rotor blades when the pilot actuated means is at the center of travel of said one kind of movement.

2,532,484
CATCHUP DISPENSER
Frank Damiano, Newburgh, N. Y.
Application October 4, 1948, Serial No. 52,685
2 Claims. (Cl. 222—323)

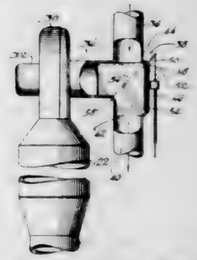


1. In a dispenser of the character described, the combination of a hollow body affording a well and including a top wall and a bottom wall, said bottom wall being provided with a circular opening and with a plurality of spaced notches at the edge of said opening, a vertical pump cylinder including a top and a lateral wall having a foraminous upper portion and an externally screw-threaded lower portion, a plurality of circumferentially spaced and outwardly projecting keeper lugs provided intermediate the ends of said lateral wall and receivable in said notches, said cylinder projecting through said opening into said well and said lugs engaging the upper surface of said bottom wall, a keeper nut provided on said lateral wall under said bottom wall, a removable cap provided at the bottom of said cylinder and having an internally screw-threaded marginal flange engaging said lateral wall, said cap being provided with an outlet passage, a piston reciprocable in said cylinder, and means provided at the top of the cylinder and projecting upwardly through said top wall for reciprocating said piston.

2,532,485
ANTISLIP TREAD
Leslie Horace Dowling, Sutton Coldfield, England
Application April 26, 1947, Serial No. 744,235
In Great Britain January 16, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires January 16, 1966
2 Claims. (Cl. 36—59)

1. Anti-skid tread for sports footwear comprising an open link chain connected at intermediate positions of its length to thin studs adapted to be secured to the tread surface of footwear, the respective lengths of chain between adjoining studs constituting flexible sections capable when fitted to a tread surface of limited displacement and operating as abutments between ground and tread surfaces, said chain being connected to said studs by split pins, said split pins engaging the links and central holes in said studs, the heads of said split pins forming anchorages for said chain and the shanks of said pins being clinched against the upperside of said studs.

2,532,486
HEATING AND VENTILATING SYSTEM
Gordon J. Fairbanks and Vernon N. Tramontini, Indianapolis, Ind., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 9, 1947, Serial No. 746,980
2 Claims. (Cl. 98—2)



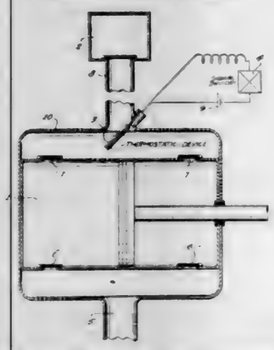
1. A heating and ventilating system for an automotive vehicle having a passenger space com-

prising a duct opening forwardly in an uncontaminated region and leading into the passenger space, a valve chamber in said duct dividing said duct into an inlet portion and a ventilating portion, a branch duct leading from said valve chamber, an air heater connected on its inlet side to said branch and on its outlet side to said passenger space, blower means for circulating air through said branch duct and heater, a pivoted valve plate in said chamber, said plate being pivotable to a first position extending across said chamber shutting off flow between said ventilating portion and said chamber and connecting said inlet portion to said branch, said plate being pivotable to a second position extending across said chamber shutting off flow between said inlet and said chamber and connecting said ventilating portion to said branch, said plate being pivotable into a third position in which said inlet portion is connected to said ventilating portion, and means for pivoting said plate.

2,532,487
NOTEBOOK CLAMP
Roy M. Faulkner, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application July 26, 1948, Serial No. 40,670
3 Claims. (Cl. 120—28)

1. A note book clamp comprising a resilient flat metal strip bent at each end along lines converging upwardly to form a pair of end walls, and bent again in reverse direction to form ears spaced outwardly of said end walls.

2,532,488
CONTROL AND SAFETY DEVICE AGAINST EXPLOSIONS OF TUBING AND RECEIVERS IN AIR COMPRESSING PLANTS
Emile Etienne Feneron, Clichy, France, assignor to Société Airseco, a société of France
Application August 4, 1947, Serial No. 765,954
In France March 28, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires March 28, 1959
1 Claim. (Cl. 177—311)

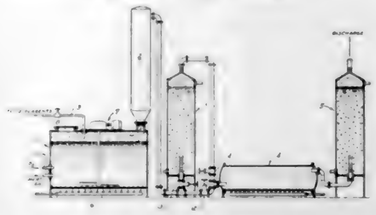


Apparatus for detecting the existence of an incipient explosion hazard in a compressed air-oil vapor mixture produced by air compressing arrangement including air delivery valve means and adapted to deliver, in the event of proper operation of said air delivery valve means, an air-oil vapor mixture having a predetermined compression and a corresponding predetermined compression temperature which is reached in the event of proper operation of said air delivery valve means and which is lying, due to heat radiation, below a critical temperature which is reached in the event of improper operation of said air delivery valve means and at which critical temperature the air-oil vapor mixture present is apt to explode, said apparatus comprising in combination a signal device; and a thermostatic device mounted in exposed relation to the compressed air-oil vapor mixture close to the point of discharge of the same from said air compressing arrangement and operating said signal device when the temperature at the point of mounting of said thermostatic device reaches a predetermined signal temperature lying between said predetermined compression temperature reached in the event of proper operation of said air delivery valve means and said critical temperature reached in the event of improper operation of said air delivery valve means and at which critical temperature the air-oil vapor mixture present is apt to explode.

2,532,489
COMPOSITION FOR PRESERVING ARTICLES OF FOOD AND THE LIKE
Carl S. Ferguson, Newton, Mass.
No Drawing. Application February 18, 1946, Serial No. 648,557
2 Claims. (Cl. 106—125)

1. A new composition of matter for coating and preserving articles of food, said composition consisting of an aqueous solution of propylene glycol, gelatin and gum arabic in the proportion of 1 to 2 gallons of propylene glycol, 6 to 9 pounds of gelatin, and 6 to 9 pounds of gum arabic.

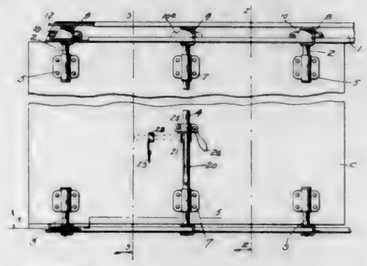
2,532,490
PROCESS FOR RECOVERY OF C^{14} ACTIVITIES
Bernard A. Fries, El Cerrito, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 28, 1948, Serial No. 51,623
16 Claims. (Cl. 23—209)



1. In a method for recovering C^{14} activities contained in neutron irradiated metal nitrides, the step comprising reacting said neutron irradiated nitrides containing C^{14} activities with mineral acid, thereby releasing said activities from said nitrides.

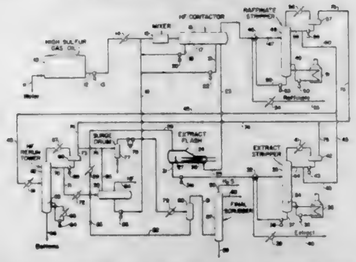
2,532,491
SLIDING DOOR MECHANISM
John J. Frueh, Maywood, Calif.
Application June 27, 1945, Serial No. 601,774
5 Claims. (Cl. 20—23)

1. A door operating mechanism for a freight carrying vehicle having a door opening in the side wall thereof and a door seatable in said opening, said mechanism comprising, a tubular beam rectangular in cross section and horizontally extending along the wall of the vehicle above the door opening, the beam having cut through the outer side wall thereof an opening parallel with the upper and lower surfaces of the beam, the portions of the outer wall above and below the opening forming flanges, stems vertically mounted on the outer surface of the door for axial rotation thereon, a head on each



stem having a horizontally disposed top plate extending through the side wall opening of the beam, wheel trucks fitted to ride in the beam within the flanges thereof, the ends of the plates extending into the beam being pivotally secured to the wheel trucks, and means on the outer surface of the door connected to rotate said stems to cause the heads thereof to turn horizontally on the wheel trucks to swing the door into and out of the door opening.

2,532,492
HF EXTRACTION OF HIGH SULFUR GAS OIL
John J. Giachetto, Calumet City, and John F. Snuggs, Chicago, Ill., and James A. Bock, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 25, 1948, Serial No. 46,154
13 Claims. (Cl. 196—31)

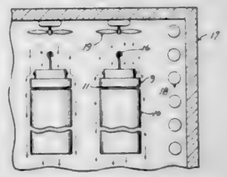


1. In a process for extracting a sulfur-containing hydrocarbon charging stock with hydrogen fluoride which includes the steps of contacting the charging stock with hydrogen fluoride in amounts and under conditions including a contacting temperature in the range of 80° to 150° F. for forming separate liquid phases, separately stripping each of said phases for removing hydrogen fluoride therefrom and dehydrating and recycling removed hydrogen fluoride, in which process H_2S tends to accumulate at a plurality of places, the improved method of operation which comprises removing streams of H_2S from the places at which it tends to accumulate, combining the removed H_2S streams to form a single gas stream, compressing said gas stream, cooling the compressed stream and removing hydrogen fluoride from said stream after said cooling step.

2,532,493
PRODUCTION OF SILANES
David B. Hatcher, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application July 8, 1949, Serial No. 103,668
2 Claims. (Cl. 260—448.2)

1. A method of producing silanes that comprises reacting ethylene with silicochloroform in the presence of zinc aluminum chloride at temperatures from 320° C. to 450° C. and at pressures from 200 to 2000 pounds per square inch gauge.

2,532,494
METHOD OF MAKING PAPER TUBES
Elmer G. Hensler, Barton, Wis., assignor to McGraw Electric Company, a corporation of Delaware
Application November 23, 1946, Serial No. 711,988
1 Claim. (Cl. 92—66)

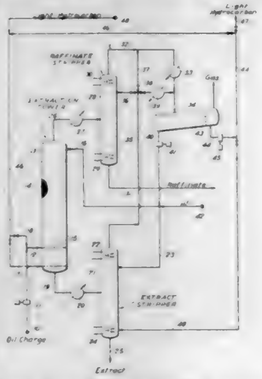


The method of making paper tubes comprising winding paper pulp on a metal sleeve in two sections with one of the sections relatively short axially of the metal sleeve and located adjacent one end of the metal sleeve, directing a blast of heated air towards that end of the metal sleeve having the relatively short section of paper tube thereon, whereby the relatively short section of paper tube acts as a shield and guards the adjacent end of the longer section of paper tube from fraying due to the blast of heated air, continuing the drying process until the paper tube is thoroughly dried and set and maintaining a fixed relation between the short and longer sections of said paper tube throughout the entire drying process, cooling the paper tube and metal sleeve, and withdrawing the metal sleeve from the paper tube.

2,532,495
REMOVAL OF HF FROM HF-OIL AND OIL-HF SOLUTIONS
Waldemar R. Hertwig, Whiting, and James D. Bushnell, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 13, 1947, Serial No. 791,646
3 Claims. (Cl. 196—13)

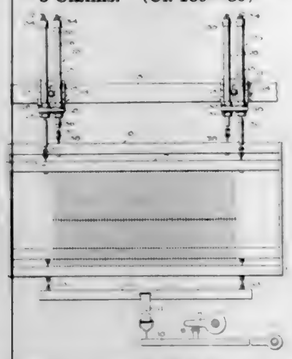
1. The method of preventing the fouling of equipment employed in a system for treating an oil with HF wherein one fraction is obtained which is soluble in HF and another fraction is obtained which is insoluble in HF and which contains only a small amount of dissolved HF, which method comprises stripping HF from the soluble fraction in a first stripping zone, stripping HF from the insoluble fraction in a second stripping zone, cooling and condensing overhead materials

produced in the operation of both stripping zones, and introducing at least a part of the overhead



material from the first stripping zone into the upper part of the second stripping zone before separating HF from the condensed materials.

2,532,496
LOOM HARNESS LIFTER
Primus T. Hipp, La Grange, Ga.
Application February 3, 1949, Serial No. 74,456
3 Claims. (Cl. 139—89)



1. The combination, with a vertically movable loom-harness and means to depress it, a lifting device for the harness comprising an adjustable bracket mounted on the arch of the loom, a tubular member, inter-engaging means on the bracket and on the tubular member for securing the latter at a selected position of adjustment on the bracket in vertical alignment with the harness, a spring located within and anchored at one end thereof to the tubular member, and a plunger secured at one end to the free end of the spring and at its opposite end to the harness.

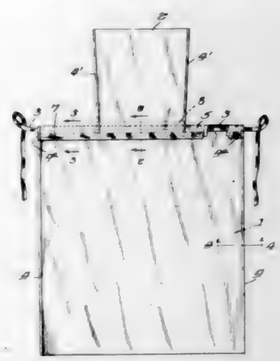
2,532,497
PREPARATION OF INORGANIC OXIDE PARTICLES
James Hoekstra, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 28, 1947, Serial No. 751,125
15 Claims. (Cl. 252—448)

1. A method of preparing silica particles of low density and of substantially evenly distributed uniform pores, which comprises commingling an acid, an alkali metal silicate and a soap solution containing at least 0.01% of an alkali metal soap, reacting the mixture under a pH controlled to form silica particles containing soap molecules, thereafter drying the same to form firm silica particles, and washing the dried particles to remove soap molecules.

2,532,498
POLYMERIZABLE POLYESTERS
Harold A. Hoppens, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application June 22, 1948, Serial No. 34,551
8 Claims. (Cl. 260—75)

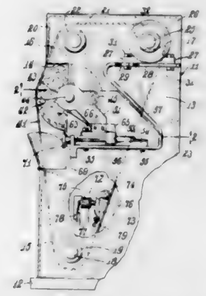
1. A linear unsaturated polyester of improved stability which is capable of hardening by addition polymerization to a body having high compressive strength and which is the product of the esterification reaction, without substantial addition polymerization, of ingredients consisting essentially of three mols of an unsubstituted butenedioic acid, from one to two mols of ethylene glycol and from one to two mols of propylene glycol.

2,532,499
APRON TIE MEANS ASSEMBLY
Herbert W. Jackson, Clarendon Hills, and Harry B. Goldsmith, Jr., Evanston, Ill.
Application January 14, 1950, Serial No. 138,538
2 Claims. (Cl. 2—52)



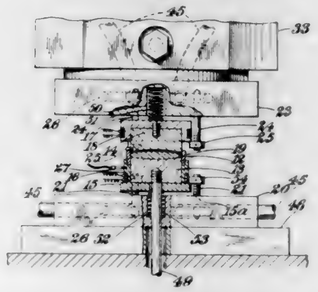
1. An apron, comprising a sheet-like pliant body, a sheet-like pliant bib having a lower end portion of less width than that of the upper end of said body positioned adjacent said upper end portion and intermediately of the opposite sides of the same, said upper end portion of the body being folded upon itself transversely of the body, the lower end portion of said bib overlying the fold in the body upper end portion, a flat pliant tie strip of greater length than the width of said body in and disposed longitudinally through the fold having the opposite ends thereof extended therebeyond, a flat binding strip engaged with and along the free edge portion of said fold, adjacent normally outer side portions of said body and over and with the overlying outer side portion of said bib, uniting the same, and a second flat binding strip engaged with and along adjacent end portions and the normally inner sides of the body and bib, uniting the same.

2,532,500
BELT GRINDER AND POLISHER
Leo D. Jensen, Chicago, Ill., assignor to Dover Industries, Inc., Chicago, Ill., a corporation of Illinois
Application January 26, 1948, Serial No. 4,430
1 Claim. (Cl. 51—135)



In a machine of the character described the combination of a housing, an endless belt and a plurality of rollers over which said belt is trained, drive means for one of said rollers, adjustable mounting means for said drive means and said one roller a mounting integral with said housing, a bearing plate adjustably slidably mounted on said mounting, a bearing bracket adjustably rotatably mounted on the bearing plate, a journal on said bearing bracket, a spindle mounted in said journal and extending into the housing, a contact wheel on the extended spindle end in circumferential surface contact with the belt surface, mechanical means to rotate said bearing bracket to adjust the plane of the contact wheel circumferential surface relative to the belt surface plane, and mechanical means for slidably adjusting said bearing plate toward or away from said belt.

2,532,501
MOLDING OF PLASTICS
John Johnson, Slough, England, assignor to Combined Optical Industries Limited, Slough, England, a British company
Application November 23, 1944, Serial No. 564,795
In Great Britain January 27, 1944
13 Claims. (Cl. 18—17)

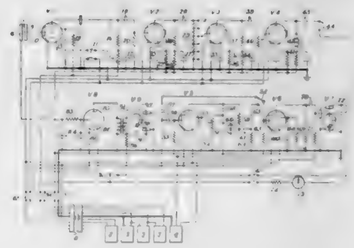


1. In moulding apparatus, the combination of a support for a blank to be moulded, an upper press member reciprocable above the same, a cooling member carried thereby, cooling means in said cooling member, a heating member carried by said cooling member below the same, normally spaced therefrom and movable relatively thereto, means for supplying heat to the heating member at required times, and a die member carried by said heating member below the same, said parts being adapted for the lowering of said die member into light contact with the blank leaving the cooling member spaced from the heating member during the heating of the die member and blank, further downward movement of said press member thereafter causing relative movement between said cooling and heating members to cause contact therebetween and direct transmission of pressure through the same and said die member to the blank.

2,532,502
DENTURES, COMPOSITIONS, AND METHODS
Homer van Beuren Joy, Montclair, N. J., assignor, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey
No Drawing. Application February 5, 1946, Serial No. 645,713
10 Claims. (Cl. 260—45.5)

1. A denture of a denture resin plasticized with a plasticizer selected from the group consisting of a dimethacrylate of a saturated straight chain glycol having the formula $C_xH_yO_2$, where x is 2 to 4, and y is an even number from 6 to 10, a diacrylate of a saturated straight chain glycol having the formula $C_xH_yO_2$, where x is 2 to 3, and y is an even number from 6 to 8, and glycerol trimethacrylate, in which the denture resin includes vinyl chloride-acetate copolymer denture resin and polyvinyl butyral denture resin in which the ratio of resins is from 85:15 to 30:70, and the ratio of resins to plasticizer is 100 to from approximately 50 to 70, the stated ratios being in parts by weight.

2,532,503
ELECTRONIC COUNTING CIRCUITS
Joseph W. Kennedy, Santa Fe, N. Mex., William R. Baker, Berkeley, Calif., and Clyde E. Wiegand, Santa Fe, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application April 24, 1944, Serial No. 532,566
4 Claims. (Cl. 250—83.6)



1. A self-contained portable counter comprising an ionization chamber, a power supply for furnishing a high potential to said ionization chamber, a pulse amplifier, a scaling circuit the input thereto being the amplified pulses, a register, and switching means for impressing the output of the scaling circuit or the amplified pulses to said register.

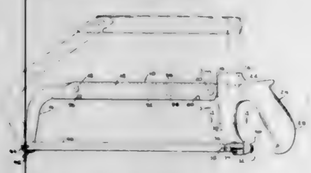
2,532,504
METHOD AND APPARATUS FOR INSTALLING ELECTRIC CABLE SYSTEMS
Rhea P. Lapsley, Rutherford, N. J., assignor to The Okonite Company, Passaic, N. J., a corporation of New Jersey
Application October 7, 1948, Serial No. 53,229
16 Claims. (Cl. 175—376)

1. The method of installing a plurality of cable conductors in a raceway, which method comprises continuously twisting the conductors together as they are being drawn from their respective reels and into the raceway, and simultaneously rotating each conductor on its own axis in the same hand as the said conductor twist.

2,532,505
COMBINATION COMB AND HAIRBRUSH
Louis L. Love, Philadelphia, Pa.
Substituted for application Serial No. 560,936, October 30, 1944. This application March 24, 1948, Serial No. 16,661
2 Claims. (Cl. 132—85)

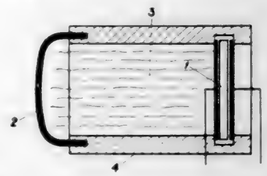
1. In a combined comb and hair brush having a brush body formed at one end with a handle and with a longitudinal dove-tailed groove opening to the end thereof opposed to the handle and a comb having a dove-tailed back portion slidably engaged into said dove-tailed groove, the handle being formed with a passageway arranged in end alignment with the groove of the brush body; a comb handle integrally formed with the end of the comb adjacent the handle of the brush body and slidably received in said passageway, said comb handle being formed along one side with a plurality of spaced notches, and means within the handle of the brush body for selectively engaging said notches of said comb handle for releasably holding the comb in desired shifted position relative to the brush body.

2,532,506
HACK SAW OR THE LIKE
George H. Mansfield, Akron, Ohio
Application November 29, 1947, Serial No. 788,879
8 Claims. (Cl. 145—34)



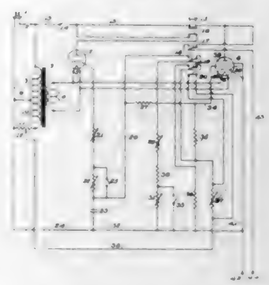
1. A hack saw or the like comprising an inverted U-shaped handle portion, one leg of the U comprising a pistol grip, the other leg of the U terminating in an eye having a square bore therein, the side of the last-named leg nearest to the pistol grip being outwardly flared to provide a guard for fingers grasping the pistol grip, said handle portion having a pair of sockets at right angles to each other open to the periphery of the handle portion near the base of the U, a bar adapted to be received in either socket, a channel receiving the outwardly extending end of the bar, means securing the channel to the bar, an L-shaped bar received in the other end of the channel, means for securing the L-shaped bar either with one leg thereof in alignment with the channel or at an angle thereto, blade fastening means on the end of the L-shaped bar, fastening means having a square periphery slidably received in the eye of the handle portion, a saw carried between the fastening means, and a wing-nut screwed onto a rounded end of the square-bodied fastening means for tightening the whole assembly on the handle portion.

2,532,507
FEELER FOR ELASTIC WAVES
Marcel Meunier, Cuesmes, Belgium, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium, a Belgian societe anonyme
Application July 18, 1946, Serial No. 684,614
In France August 13, 1945
2 Claims. (Cl. 171—327)



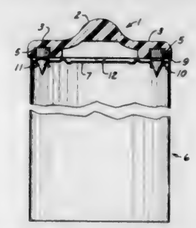
1. In the art of applying elastic waves to a material object, a feeler comprising a container, a flexible wall and a wave emitter forming component parts of said container, a liquid filling said container between said wall and said emitter, said wall being slightly permeable by said liquid and adapted to make close and liquid-moistened contact with said object, and said liquid being a good transmitter of elastic waves.

2,532,508
ELECTRONIC INTERRUPTER
Walter P. Menkhaus, Philadelphia, Pa.
Application December 27, 1946, Serial No. 718,863
1 Claim. (Cl. 175—373)



An electronic interrupter, comprising a rectifier tube and a thyratron tube, an auto-transformer having a two-section primary and a secondary, the filaments of said tubes being heated from said secondary, one section of said primary being connected to a source of alternating current and the other section being connected to one side of said current source through an adjustable resistance, a relay connected to said source and having a normally closed contact controlling the passage of current from said source to the plate of said rectifier tube, a second contact normally open and controlling the passage of current from said source to a discharge terminal, the cathode of said rectifier tube being connected through a pair of variable resistances in series, the second resistance being provided with a switch-controlled shunt, and a condenser connected with the first-mentioned current source, the rectifier side of said condenser being connected through a normally open relay contact, a variable resistance, a fixed resistance and a switch-shunted switch to the opposite side of said condenser, the rectifier side of said condenser being also connected through a fixed resistance to the control grid of said thyratron tube and through a fixed resistance and a variable resistance to an adjustable contact on said auto-transformer resistance, said last-mentioned adjustable resistance being shunted by a normally closed relay contact, the connection between said last-mentioned pair of fixed and variable resistances being connected through a normally open relay contact and another fixed resistance with the second-mentioned section of said transformer and current source, and the suppressor grid and cathode of said thyratron tube being connected to a second discharge terminal and one side of said current source.

2,532,509
PERFORATING AND CLOSING DEVICE
Phillip Monnett, Toledo, Ohio, assignor to Meco, Inc., Napoleon, Ohio, a corporation of Ohio
Application June 15, 1948, Serial No. 33,117
1 Claim. (Cl. 220—51)

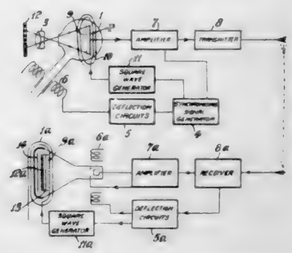


A combined perforating and closing device for condensed milk cans comprising a web-like body molded of a non-toxic resin and having two longitudinally extending arms and shorter laterally extending arms, all of said arms having a substantially planar lower surface free of dirt retaining crevices, a perforating punch mounted in the lower side of each of said longitudinally extending arms and extending downwardly therefrom, said body having a maximum dimension through said longitudinally extending arms slightly greater than the diameter of the top of a commonly used condensed milk can and a dimension through said laterally extending arms less than such diameter, a centrally located, upwardly extending, manually graspable handle portion on said body, and downwardly extending protuberances on the undersides of said laterally extending arms, said protuberances being of a length substantially equal to the height of the rims formed on such cans.

2,532,510
THERMALLY RESPONSIVE INDICATOR
Rolland D. Nelson, Hales Corners, Wis., assignor to McGraw Electric Company, a corporation of Delaware
Application May 20, 1944, Serial No. 536,636
2 Claims. (Cl. 74—2)

1. In a device of the class described including a member biased for movement from a first position to a second position, the combination with a movable latching lever normally holding said member in said first position, of tripping mechanism including a biased operating lever, a flexible connection between said latching lever and operating lever, said operating lever biased for movement to withdraw said latching lever from latching position through the medium of said flexible connection, and a thermally responsive latch normally holding said operating lever against releasing movement.

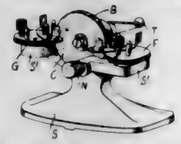
2,532,511
TELEVISION
Ferenc Okolicsanyi, London, England
Application November 12, 1947, Serial No. 785,417
In Great Britain November 16, 1946
9 Claims. (Cl. 178—5.2)



1. In a television system employing a cathode ray tube including a surface scanned in discrete lines by an electron beam, the provision of a cylindrical electron-optical system including a master grid within said tube in close proximity to said surface, said electron optical system including a plurality of co-planar conductors serving to impose a line structure on the electron distribution over said surface, means for applying the same voltage to all of said conductors, means for periodically varying the voltage applied to said

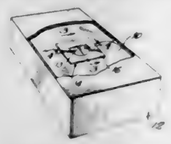
conductors for periodically deflecting said line structure into at least two alternate positions, and colour selective means arranged in fixed spatial relationship to said positions, said lines of scanning and said imposed line structure being displaced at an angle to one another.

2,532,512
APPLIANCE FOR GRINDING THE CONTACT POINTS OF CONTACT BREAKERS
Peter Samuel Paget, Mangotsfield, near Bristol, England
Application October 10, 1949, Serial No. 120,449
In Great Britain October 12, 1948
1 Claim. (Cl. 51—125)



An appliance for grinding the contact faces of contact breakers comprising a stand, at least one carrier member having a plurality of pins for selective engagement with a contact breaker rotatably mounted on said stand, means for locking said carrier member against rotation in any one of a number of predetermined positions and a grinding wheel rotatably mounted on said stand, said grinding wheel comprising a face plate having a slight concavity on one face and a flexible abrasive disc mounted on said face so as to conform to the concavity thereon, whereby a slight degree of convexity is imparted to the contact face being ground.

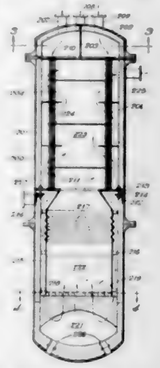
2,532,513
OLEOMARGARINE PACKAGE
Leo Peters, Evanston, Ill.
Application November 14, 1947, Serial No. 786,050
13 Claims. (Cl. 99—179)



1. A package, comprising a container formed of flexible, translucent material and adapted to enclose a body of oleomargarine for the kneading thereof, a frictional sealing member releasably engaging a portion of the container less than the width thereof to form a temporary compartment in said container, and coloring material in said compartment, said coloring material being brought into communication with the oleomargarine upon the release of the seal.

2,532,514
METHOD AND APPARATUS FOR MAKING HYDROGEN-CARBON MONOXIDE MIXTURES
John A. Phinney, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 14, 1945, Serial No. 610,845
4 Claims. (Cl. 48—196)

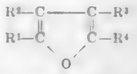
1. In the reforming of methane with air and carbon dioxide to produce hydrogen and carbon monoxide, the improvement which comprises preheating separately confined streams of methane, air, and carbon dioxide and avoiding coke deposits in the separately confined preheating zones by passing successively therethrough,



methane, carbon dioxide, air and carbon dioxide whereby coke produced in the preheating of methane is oxidized by the air and each zone is purged by carbon dioxide before and after the introduction of air.

2,532,515
CATALYTIC CONDENSATION OF FURANS WITH COMPOUNDS CAPABLE OF YIELDING HYDROCARBON RADICALS
Herman Pines, Chicago, and Jerome A. Vesely, Evanston, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application January 29, 1947, Serial No. 725,150
7 Claims. (Cl. 260—345)

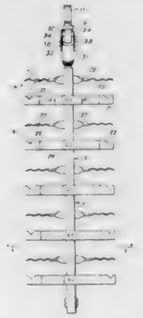
1. A process for producing an alkenyl furan which comprises reacting a diolefin with a molecular excess of a furan in the presence of a catalytic amount of a boron fluoride alkylation catalyst at a temperature within the range of from about −20° C. to about 175° C. and a pressure sufficient to maintain a substantial portion of the reactants in the liquid phase, said furan having the following structural formula:



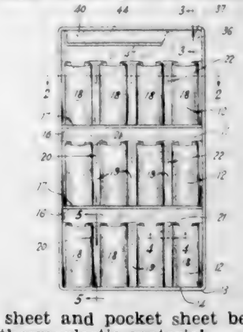
in which at least one of the groups R^1, R^2, R^3, and R^4 is a hydrogen atom and the other R groups are selected from the group consisting of hydrogen, alkyl, cycloalkyl, aryl, aralkyl, alkaryl, and naphthyl radicals.

2,532,516
ELECTROPLATING RACK
Max Stefan Schneider, Chicago, Ill.
Application February 23, 1946, Serial No. 649,707
1 Claim. (Cl. 204—297)

A rack adapted to be suspended and to support a plurality of articles in an electroplating bath or the like having a transverse bus bar over the same comprising, in combination, a pair of closely adjacent metal bars in parallel alignment and electrical engagement with each other, said bars being relatively adjustable longitudinally, one of said bars having a hook at its upper end adapted to hook over the bus bar and thereby to supportingly suspend the rack in the bath and electrically connect it with the bus bar, transverse arms with article-holding free ends secured centrally to said bars in a plurality of groups of three arms each, a pair of the arms of each group being secured to one of said bars and the other arm of each group secured to the other bar, the free ends of said pair of arms forming a support for the lower edge portion of an article to be plated, said free ends each having an article edge receiving notch in the upper surface thereof and said free ends being laterally bendable to enable them to be spaced apart as desired to hold the particular article, the free end of the other arm of each group being resilient and located above said pair of ends and adapted resiliently to engage and hold the upper edge portion of the article and press it down against said pair of ends during plating, said upper resilient end having a series of article edge engaging depressions on its lower side to accommodate articles in different inclinations to the vertical for rim drainage, said resilient ends enabling the articles to be individually loaded into the respective groups of the rack, a handled lever pivoted to one of said bars and lying alongside thereof when in closed position, and a link pivoted at one end to the other of said bars longitudinally beyond the pivot of the lever, the other end of said link being pivoted to said lever toward the handle end thereof and inside a line joining the pivots of the link and the lever to the bars, said link being longer than the distance from its pivotal attachment on the lever to the pivot of the lever, whereby pivotal movement of said lever from and to its closed position imparts a longitudinal relative shifting of said bars to free the articles from the ends of said arms and to reset said ends in article-holding position, said lever and link connections preventing the shifting of the bars in a direction to free the articles when the lever is in closed position.



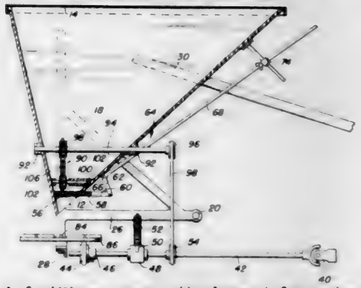
of the bottom edges of the pockets, whereby the bottom edges of the pockets communicate, said backing sheet and pocket sheet being made of flexible thermoplastic material.



2,532,517
SHOE BAG
Daniel B. Schwartzman, Glen Garden, and William Jindella, North Bergen, N. J., assignors to Protex Company, Jersey City, N. J., a corporation of New Jersey
Application May 15, 1948, Serial No. 27,176
2 Claims. (Cl. 150—1)

1. In combination a backing sheet, a pocket sheet attached to the front of the backing sheet at its sides and bottom edges, portions of the pocket sheet being fused to the backing sheet along parallel spaced lines forming pockets therebetween, said fused portions terminating short

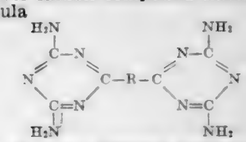
2,532,518
FERTILIZER SOWER ATTACHMENT FOR TRACTORS
Freer E. Scott, Hammondsport, N. Y.
Application July 21, 1948, Serial No. 39,920
4 Claims. (Cl. 275—8)



1. A fertilizer sower attachment for a tractor having a rear power take-off shaft and drawbar comprising a hopper detachably secured to the tractor frame and drawbar, having a fertilizer outlet at the bottom, means for adjustably varying the opening of said outlet, means beneath said outlet for receiving and dispersing fertilizer, further means for conveying fertilizer to said outlet, said further means including a first shaft rotatably journalled in said hopper, means drivingly interconnecting said first shaft with said power take-off shaft, a second shaft rotatably journalled in said hopper beneath said first shaft, sprockets secured to said first and second shafts, and an endless conveyor about said sprockets.

2,532,519
ARYL DIGUANAMINES
John Kenson Simons, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application January 2, 1948, Serial No. 347
8 Claims. (Cl. 260—249.9)

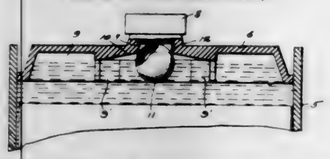
1. A novel carbon compound having the general formula



wherein —R— is a divalent aromatic radical in

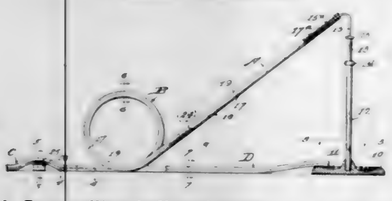
which the free valences are attached to different nuclear carbon atoms, containing two benzene nuclei that contain at least ten carbon atoms and are connected by not more than twelve atoms in series, any atom in said radical other than carbon and hydrogen being an oxygen atom in an ether linkage.

2,532,520
NONOVERFILL INDICATOR FOR BATTERY CELLS
David M. Simpson, Long Beach, Calif.
Application December 24, 1947, Serial No. 793,607
1 Claim. (Cl. 136—182)



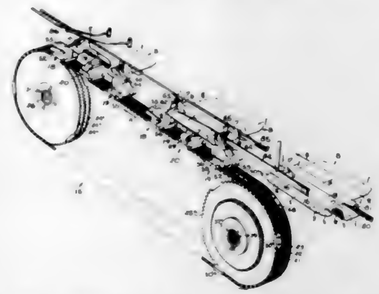
A storage battery including a cover, having a filling opening, a depending annular flange formed on the inner surface of the cover surrounding the filling opening, said flange having slots extending inwardly from the free edge thereof, terminating at the base of the annular flange, the inner edge of the filling opening being formed with a notch, where gases escape from the battery, the inner surface of the cover within the confines of the annular flange being inclined upwardly from said annular flange towards the filling opening, and a ball float disposed within the space formed by the annular flange for engagement with the inner edge of the wall of the filling opening, substantially closing the filling opening, said ball extending through the filling opening with its upper edge flush with the top of the storage battery.

2,532,521
ROLLING BALL AND TRACK TOY
Ray L. Stair, San Fernando, Calif.
Application November 13, 1946, Serial No. 709,488
3 Claims. (Cl. 46—43)



1. In a rolling ball and track toy, a base provided in its top with a shallow recess, a tubular standard projecting upwardly from said base, a tubular member mounted for vertical adjustment in said tubular standard, a stop adjustably mounted on said tubular member, a rod mounted for vertical adjustment in the upper portion of said tubular member, a stop adjustably mounted on said rod, an inclined arm projecting from the upper end of said rod, a track rail having one end supported by said inclined arm, and comprising a plurality of sections of flexible material, each provided in its top with a longitudinally disposed groove and in its body with a continuous bore, pins removably seated in the ends of the bores in adjacent rail sections for connecting same and inflexible rods inserted in the bores of certain of said rail sections to render same rigid.

2,532,522
METHOD AND MECHANISM FOR FOLDING PAPER BOXES
Edwin G. Staude, Minneapolis, Minn., assignor to The Sperry Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1946, Serial No. 718,941
9 Claims. (Cl. 93—49)



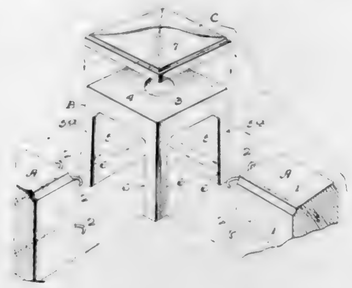
1. The method of infolding a box blank having a pair of opposed side panels and at least one additional side panel along a side of the blank lying at right angles to said pair and said additional panel having tabs on its ends articulated thereto along diagonal crease lines, said method comprising a preparatory inward turning of said opposed pair of panels into partially infolded position in which they are upwardly and inwardly inclined over the body portion of the blank, then infolding said additional panel against said body portion of the blank, while wiping said tabs rearward with reference to said additional panel by pressure on the same from the partially folded opposed panels, and completing the infolding of said opposed pair of panels to overlie the reversed tabs on said additional panel.

2,532,523
PREPARATION OF CAKES WITH LIQUID OIL
Larry G. Trempel, Decatur, Ill., and Marilyn E. Frink, Tacoma, Wash., assignors to A. E. Staley Manufacturing Co., Decatur, Ill., a corporation of Delaware
No Drawing. Application April 10, 1946, Serial No. 661,058
2 Claims. (Cl. 99—92)

1. In the preparation of cakes wherein the batter ingredients include liquid triglyceride oil as the shortening agent and glycerol monostearate as an emulsifying agent, the improvement comprising: mixing together and heating said oil and monostearate to form a solution and mixing said solution, at a temperature of at least about 120° F., with the other batter ingredients; said monostearate being present at a concentration of 4 to 6% based on the weight of the oil.

2,532,524
CEMETERY LOT CURBING
Francis S. Walker, Temple, Tex.
Application July 9, 1948, Serial No. 37,882
1 Claim. (Cl. 72—87)

A curbing structure for marking the boundry of cemetery lots and the like, comprising, in combination, a plurality of precast connecting units, each unit including top and side walls defining a chamber opening at the bottom of the unit, the top wall having an opening communicating with said chamber and certain of said side walls having angular openings extending through the bottom edge of the unit, elongated precast curbing sections of angular cross section and each having anchoring elements projecting from the end portions thereof, said end portions inwardly of said anchoring elements fitted in the openings of the side walls for a distance substantially equal to the thickness of said side walls having said openings to hold the curbing sections against lateral twisting relative to the



corner units, and the anchoring elements extending into said chamber, a cap fitted to each top wall of each connecting unit, each cap having anchoring elements projecting from the bottom thereof and entering the opening in said top wall, and a settable cementitious filling within said chamber embedding the anchoring elements of the curbing sections and the cap and securing the curbing sections and caps to the connecting units to provide a monolithic structure.

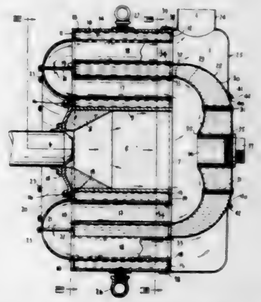
2,532,525
PREPARATION OF A HYDROCARBON CONVERSION CATALYST
Glenn M. Webb, Western Springs, and Reno W. Moehl, Congress Park, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 25, 1947, Serial No. 763,736
5 Claims. (Cl. 252—457)

1. A method of manufacturing a silica-magnesia catalyst which comprises commingling silica hydrogel with a preformed slurry of magnesium hydroxide in the presence of an ammonium salt solution having a pH below about 9 and containing from about 0.2 to about 2 mols of ammonium salt per mol of said magnesium hydroxide.

2,532,526
ADJUSTABLE HAND RAKE
Frank W. Wells, Pasadena, Calif.
Application September 5, 1947, Serial No. 772,318
7 Claims. (Cl. 56—400.18)

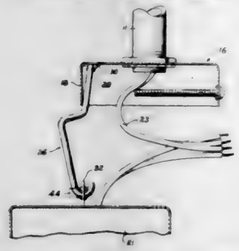
4. An adjustable rake comprising a handle, a head attached to one end of the handle formed by two flat plates secured in spaced relation to each other, a plurality of tines disposed between said plates and lying in a common plane, pivotal connections between the outermost tines and the head whereby said tines may swing in said common plane, a guide means carried centrally of the rake head for receiving a center tine whereby said tine may reciprocate along the longitudinal axis of the rake handle, an operating bar slidably mounted upon the rake handle and at the end of which said center tine is formed, a plurality of guide and spacing means on the head intermediate the pivoted tines and the reciprocating tine for receiving the inner ends of intermediate tines whereby said tines may swing in the common plane of the rake and may move longitudinally, and a pair of actuating bars pivotally connected to each other and the center tine at their inner ends and pivotally connected to the pivoted tines at their outer ends, the said intermediate tines being pivotally connected to the actuating bars at uniform spaced relation to each other between the center and the pivoted tines, whereby reciprocation of the operating bar and the center tine will simultaneously move all of the tines and cause them to assume equal spaced relation to each other while maintaining the working ends of the tines in a substantially straight line normal to the longitudinal axis of the rake handle.

2,532,527
WATER BOILER AND HEATER
Horace E. Woolery, St. Paul, Minn.; Myra Lillian Woolery, executrix of said Horace E. Woolery, deceased, assignor to Woolery Machine Company, Minneapolis, Minn., a corporation of Minnesota
Application April 5, 1945, Serial No. 586,728
9 Claims. (Cl. 122—75)



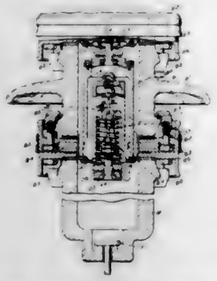
1. A water boiler of the character described comprising a fire box, means forming an annular water chamber about the fire box, inner and outer rows of fire tubes in the water chamber and adapted to carry heat and gases from the fire box, the said water chamber having end closures and one of said closures having openings between said inner and outer rows of tubes, and a water collar having an annular chamber connected to said openings to circulate water therethrough.

2,532,528
MOUNTING FOR OVERHEAD LIGHTING FIXTURES
Edward A. Zuley, Chicago, Ill., assignor to Leader Electric Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 13, 1947, Serial No. 773,821
5 Claims. (Cl. 240—51.11)



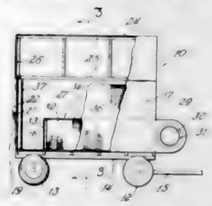
1. A mounting for an overhead lighting fixture comprising the combination of a holder including a mounting plate adapted for attachment to a rigid overhead support, said holder also being adapted to receive electrical wiring for the fixture, hook means for detachably hanging the fixture from said holder in a pendulous and approximately level condition but displaced below the same to provide easy access to the electrical wiring for the fixture, said hook means also permitting said fixture to be swung upward thereon and into abutment with said holder, latching means for maintaining said fixture in abutting relationship with said holder while allowing horizontal sliding movement between the former and the latter without disengagement of said hook means, and locking means for precluding disengagement of said latching means while permitting adjustment of said fixture in a horizontal plane and relative to said holder.

2,532,529
FLUID-BLAST ELECTRIC CIRCUIT BREAKER
Donald Foster Amer, Newcastle-on-Tyne, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a British company
Application January 20, 1948, Serial No. 3,243
In Great Britain February 3, 1947
14 Claims. (Cl. 200—148)



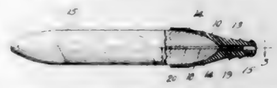
4. A contact unit for a multi-break fluid-blast circuit-breaker having a plurality of contact units arranged in a series assembly or stack, comprising a contact enclosure means whereby fluid under pressure is supplied to the enclosure, a movable contact operated by the fluid pressure within the enclosure and arranged within and towards one end of the enclosure, a flexible mounting device within the enclosure and constituting the sole guiding means for said movable contact within the enclosure, a fixed contact arranged within and towards the other end of the enclosure, and means electrically interconnecting the said fixed and movable contacts which respectively cooperate with the corresponding movable and fixed contacts of the adjacent units in the stack.

2,532,530
CROP DRYING APPARATUS
Arthur A. Andersen, Crystal Lake, and Bernard C. Mathews, Chicago, Ill., assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill., a corporation of Illinois
Application December 14, 1946, Serial No. 716,218
4 Claims. (Cl. 34—233)



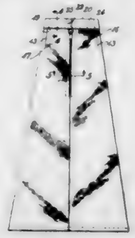
1. A portable farm crop collector and dryer comprising a wagon having a wagon box with a bottom and with front and rear end walls and two side walls extending around and forming an elongated drying compartment which extends from front to rear of the wagon, each of said side walls comprising laterally spaced, substantially coextensive outer and inner wall members, each of the latter members having a multiplicity of air openings therethrough distributively arranged throughout the area thereof, an elongated air distributor in the lower half of said compartment midway between said compartment side walls and comprising two laterally spaced side walls and a top wall forming a duct which extends lengthwise of the compartment, each of said air distributor walls having a multiplicity of air openings therethrough and uniformly distributed throughout the area thereof to supply air from the interior of the duct to the compartment space at the opposite sides of and above the duct, said duct having an air inlet through which air is supplied thereto from the exterior of the compartment.

2,532,531
CIGAR HOLDER
Jack J. Angert, Chicago, Ill.
Application September 5, 1946, Serial No. 694,877
4 Claims. (Cl. 131—188)



1. A cigar holder comprising a flexible and elastic cigar receiving portion and a mouthpiece of one-piece construction therewith, said mouthpiece being substantially more rigid than the cigar-receiving portion and having a plurality of protuberances formed thereon, said cigar receiving portion being formed on its inner face with a plurality of flexible and elastic annular ribs of decreasing diameter, a smoke passage extending through said cigar holder, said smoke passage being formed with a relatively large substantially diamond shaped recess in the more rigid mouth piece portion to secure and anchor a cigar impaling member and a rigid cigar impaling member securely anchored in said smoke passage.

2,532,532
UNDERSKIRT
Rena G. Baldrica, Plains, Pa.
Application March 18, 1948, Serial No. 15,561
2 Claims. (Cl. 2—211)

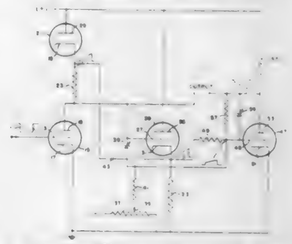


1. An underskirt comprising: a skirt body formed of a single, integral sheet of woven material formed with a single longitudinal seam at the back thereof; the weft threads of said material extending vertically at the front of said body; the material cut on the bias at the hip and rear portions of said body; the raw bias-cut margins at the rear of the body turned throughout the length of body and united by a seam throughout a major portion of said turned edges; closure securing means to hold the unsewn portions of said margins together; and with strips of the woven material cut on the straight of the goods secured in the folds of the margins along the portions provided with closure securing means by the stitching attaching the latter, to prevent bias stretch of said portions.

2,532,533
COMBINATION POST PULLER AND JACK
Philip Baldwin and Mark L. Baldwin, Humboldt, Minn.
Application September 26, 1947, Serial No. 776,308
1 Claim. (Cl. 254—132)

An implement of the character described comprising a base adapted to rest on a supporting surface, a standard fixed to and rising therefrom, a lever fulcrumed adjacent one of its ends on said standard, a clevis pivotally connected at the terminal of its legs directly to the shorter end of said lever for slidably engaging a post to be pulled when said lever end is swung downwardly, and a web extending between the legs of the clevis and spaced from the bight portion thereof to combine with said bight portion to define a post receiving opening, said web having a flat edge disposed adjacent said bight portion, said bight portion being of arcuate cross section on its inner side, and said lever being canted with respect to the post by upward movement of the shorter end of the lever to cause the post to be gripped between the bight portion of the clevis and said flat edge of the web.

2,532,534
SWEEP-VOLTAGE GENERATOR CIRCUIT
Persa R. Bell, Jr., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application June 21, 1946, Serial No. 678,224
5 Claims. (Cl. 250—27)

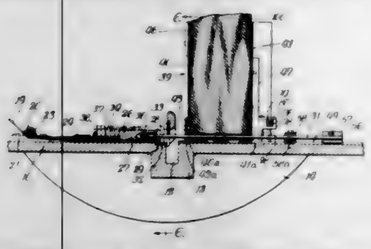


1. In a sweep-voltage generating circuit, a first vacuum tube comprising at least an anode, a control grid and a cathode connected to ground; means for applying a negative square wave voltage coupled to the grid of said first vacuum tube; a first resistor; a diode comprising an anode and a cathode; means connecting said first resistor between the anode of said first vacuum tube and the diode cathode; means connecting the diode anode to a source of positive potential; a second vacuum tube comprising at least a cathode, a control grid and an anode; means connecting said anode of said first vacuum tube to said control grid of said second vacuum tube; a second resistor; means connecting said cathode of said second vacuum tube to ground through said second resistor; a first capacitor; means connecting said first capacitor between said cathode of said second vacuum tube and the diode cathode; means connecting said anode of said second vacuum tube to a source of positive potential; a third vacuum tube comprising at least a cathode connected to ground, a control grid and an anode; a third resistor; means connecting said third resistor between said anode of said third vacuum tube and a source of positive potential; a fourth resistor; means connecting said fourth resistor between the grid and the anode of said third vacuum tube; a second capacitor; means connecting said second capacitor between the grid and the anode of said third vacuum tube; a third capacitor; a fifth resistor; a potentiometer; means connecting said third capacitor between said anode of said first vacuum tube and said fifth resistor; means connecting said grid of said third vacuum tube to the arm of said potentiometer through said fifth resistor; means connecting said potentiometer between a source of negative potential and ground; a sixth resistor; and means connecting said sixth resistor between said cathode of said second vacuum tube and said grid of said third vacuum tube.

2,532,535
TAPE THREADING MACHINE
Arthur W. Biesen, Whiting, Ind., assignor to W. B. Conkey Company, Hammond, Ind., a corporation of Illinois
Application October 3, 1946, Serial No. 700,886
11 Claims. (Cl. 11—1)

1. A machine for threading a plurality of tapes through books, catalogs or the like, or portions thereof, comprising vertical spaced plates for supporting a book in vertical position on a side edge thereof, a plurality of needles mounted in parallel, spaced relationship in a horizontal plane on one side of said book supporting means

with their same respective ends free and adapted to be reciprocated in a horizontal direction through and beyond said book and return in a direction at right angles to the plane of the pages thereof, means for reciprocating said needles, and a tape pickup member mounted in a horizontal position on the other side of said book



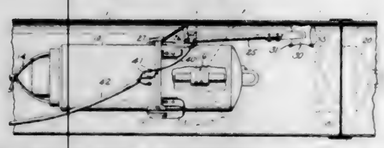
supporting means in spaced relation therefrom and adapted to position end portions of the tapes in angular relation to the path of movement of said needles, said needles being adapted to extend into said member upon movement of the needles horizontally through and beyond said book whereby to pierce the angularly disposed portions of the tapes.

2,532,536

METHOD AND APPARATUS FOR LOCATING WELDS IN HOLLOW METAL BODIES

Cormack E. Boucher, Seattle, Wash.

Application June 9, 1948, Serial No. 32,028
9 Claims. (Cl. 250—65)



1. An apparatus for locating a weld in a hollow, metal body, said apparatus comprising a support adapted for movement inside said body, a member mounted on said support and adapted for rubbing along the inner surface of said body, said member including a portion normally inactive in passing over smooth surface portions of said body but active to cause actuation of said member upon engagement thereof with an irregularity on the inner surface of said body, and means operatively associated with said member for providing an indication upon actuation of said member.

2,532,537

PROTRACTOBOARD

Charles C. Brown, Spokane, Wash.

Application July 2, 1945, Serial No. 602,765
1 Claim. (Cl. 33—78)

In a drafting implement, a base board, a rigid side bar on the upper face of said base board at one side edge thereof, a retaining bevelled bead on the under face of said board at said side edge and parallel with the side bar, a T-square having a blade resting on the side bar and extending over said board and spaced therefrom by said bar whereby to receive a drawing board between the blade and the base board, the T-square having a slide head to which the blade is secured, said slide head having a front face extending along and guided by the outer side edge of said side bar and extending below the adjacent edges of the base board and bead, a latch plate slidably mounted for limited movement toward and away from the base board on the under face of said slide head, and having side rails extending under the base board, said slide head having a depending portion slidably engaging with said rails, a

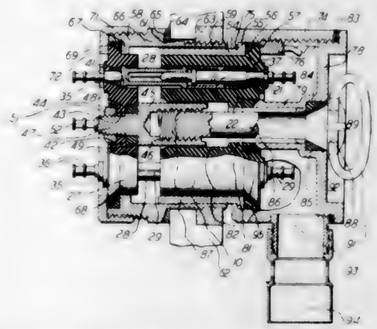
bevelled bead on the front of said plate interlocked with the bead on said board, and spring means interposed between the depending portion of said slide head and the plate edge between said rails, yieldingly holding the beads in engagement and said slide head against the base board.

2,532,538

SELF-SEPARATING ELECTRICAL CONNECTOR

Horatio H. Burtt, Hartsdale, Carl E. Soderstrom, New York, and William W. Koenig, Flushing, N. Y., assignors to Winchester Electronics Company, New York, N. Y.

Application May 26, 1949, Serial No. 95,476
1 Claim. (Cl. 173—328)



An electric cable connector comprising insulating parts, each of said insulating parts having openings therein arranged in circumferentially spaced relationship and central openings, male contact assemblies mounted in the circumferentially spaced openings of one of the insulating parts, said male assemblies including spring ejecting means, the other insulating part having female contacts assembled in the circumferentially spaced openings thereof, the female contacts entering the openings of the male assemblies and engaging with the ejector means thereon, a female ground contact having a shank portion extending through the central opening of the insulating part having the female contacts and said ground contact being internally threaded, means for securing the insulating part having the female contacts within a wall opening, a shell assembly surrounding the insulating part having the male contact assemblies adapted to be fitted within the means

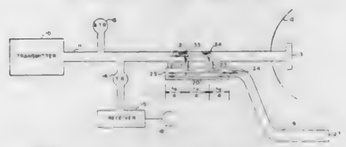
securing the insulating part having the female contacts to the wall, a ground screw threaded at one end thereof and extending through the shell assembly and the insulating part having the male assemblies for engagement with the female ground contact whereby to forcibly cause the engagement of the male contacts with the female contacts and to retain the same in contact relationship against the action of the ejecting means of the male contact assemblies, said means adapted to secure the insulating member having the female contacts to a wall opening including a sleeve secured to the wall opening, said shell assembly surrounding the insulating member having the male contact assemblies including a sleeve surrounding the insulating member and adapted to enter the sleeve supporting the insulating member with the female contacts and an internally threaded shell member, said insulating member with the male contacts having an external flange, a ground ring threaded to the internally threaded member and engaging with the flange of the insulating member with the male contacts to retain the insulating member with the male contacts in rigid engagement with the sleeve surrounding the same and with the shell, said shell member having a cap threaded therein with an inwardly extending sleeve portion engaging with the insulating member with the male contacts, said ground contact screw having engagement with the cap and extending through the sleeve portion thereof and engagement with the female ground contact whereby ground currents can pass to the ground ring through the ground screw, the cap, the shell member and ground ring, said shell assembly having a fitting through which cable wires may be extended for connection with the ground ring and with the male contacts.

2,532,539

TESTING DEVICE FOR RADIO OBJECT DETECTION SYSTEMS

Virgil A. Counter and William M. Fairbank, Cambridge, and Julius Halpern, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 3, 1945, Serial No. 620,129
4 Claims. (Cl. 343—5)



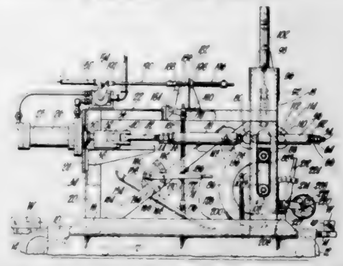
1. In combination, a first and second transmission circuit, coupling means interconnecting said first and second transmission circuits for extracting a signal traveling in one direction through said first transmission circuit, and for applying said extracted signal to said second transmission circuit, said second transmission circuit including means for allowing said extracted signal to traverse said second transmission circuit for a predetermined distance and for reflecting substantially all of said extracted signal back to said coupling means whereby a portion enters said first transmission circuit in a direction opposite to the direction said extracted signal was traveling, and a means for causing the successive remainders of said reflected signals to again traverse said second transmission circuit for said predetermined distance and be reflected back to said coupling means.

2,532,540

AUTOMATIC BILLET STAMPER

Lawrence A. Dailey, Elizabeth, and Ernest A. Erickson, Clairton, Pa.

Application March 7, 1947, Serial No. 733,240
11 Claims. (Cl. 101—4)



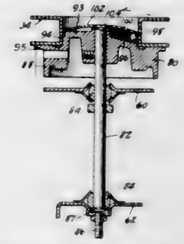
1. An apparatus for impressing identifying characters to an upright end face of a billet, comprising a conveyor for moving the billet endwise, a floatingly mounted unit carrying stamps adapted to impress identifying characters in the end face of a billet on said conveyor, hammer means mounted on said unit for actuating said stamps, guiding means forming part of said unit for centering said unit relative to the free end of said billet, said guiding means including a bell-mouthed member and laterally adjustable billet engaging members, means for simultaneously shifting the latter to suit billets of different sizes so that the stamps will be properly centered with the end face of the billet, and means for moving said guiding means either upwardly or laterally in accordance with the height and width of the billet.

2,532,541

MOUNTING FOR WIRE RECORDER SUPPLY SPOOLS

Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois

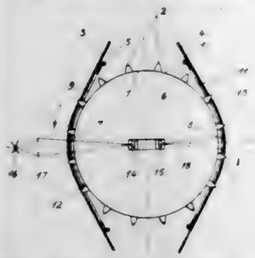
Original application March 10, 1947, Serial No. 733,654. Divided and this application March 31, 1947, Serial No. 738,437
4 Claims. (Cl. 242—68)



1. For use with a wire recorder having a cover plate wherein is a recess extending through the major portion of a circle, a spool-supporting rotatable chuck disposed wholly within the recess, the chuck comprising an annular base, a hub projecting from said annular base and adapted to fit within the central opening of a spool when the latter is mounted on the hub with one of the spool ends adjacent the annular base and with the opposite spool end lying substantially flush with the cover plate adjacent the edge of the circular recess therein, said hub terminating in a circumferentially relieved peripheral portion and the amount of relief on said peripheral portion con-

forming at every point substantially with an arc struck from a diametrically opposite point on the hub and adjacent said annular base whereby the supported spool may be freely disengaged from the hub in response to an outwardly directed force applied peripherally to one side of the spool center, and a friction lock carried by the hub engageable with the spool at a point relatively close to the annular base of the chuck for normally retaining the spool thereon.

2,532,542
MEANS FOR THE DRIVING OF MOTION-PICTURE FILM
Raymond Fernand Adrien Valentin d'Avitaya, Marseille, France
Application December 7, 1948, Serial No. 63,942
In France December 23, 1947
3 Claims. (Cl. 88—24)

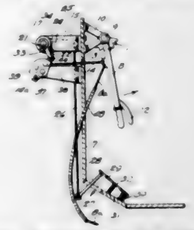


1. Motion picture film copying mechanism comprising, in combination, a sprocket drum adapted to drive a developed film and a raw film in diametrically opposite relation and having teeth engageable in apertures in the films; a pair of diametrically opposite guides respectively formed to support the film to be copied and the raw film in spaced parallel relation to the drum periphery; and formed to provide for engagement of said teeth with a film on the guide; each of said guides having a light transmitting window formed therein, and said windows being diametrically opposite each other; independently operable means supporting each guide for radial adjustment relative to the drum periphery; and a pair of mutually cooperable optical systems arranged between said windows and effective to concentrate light directed through the film to be copied and its associated window, and to focus the light upon the raw film through the window associated with the latter.

2,532,543
BUMPER CONSTRUCTION FOR LOOM PICKERS
William D. Dodenhoff, Greenville, S. C.
Application September 20, 1948, Serial No. 50,118
5 Claims. (Cl. 139—166)

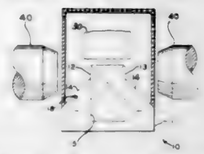
1. A form bumper adapted to be mounted on a picker shaft of a box-type loom to check the movement of a picker guided by the shaft, comprising a primary flexing strap formed of a plurality of rubber impregnated fabric laminae bonded into an integral structure and having apertures formed at its ends to freely receive said shaft therethrough, and a secondary flexing strap formed of leather secured to said primary member and having apertures formed at its ends to receive said shaft therethrough in tight gripping engagement, said secondary flexing strap serving to mount said primary flexing member on said shaft in a U-shaped configuration while maintaining said primary member out of abrasive engagement with said shaft, said flexing straps being capable of flexing movement when struck by said picker to check the movement of the picker along the shaft.

2,532,544
BRAKE CONTROLLED ACCELERATOR LINKAGE
George M. Etnyre, Oregon, Ill.
Application July 24, 1948, Serial No. 40,578
8 Claims. (Cl. 192—3)



1. A safety mechanism to prevent driving of an automotive vehicle when its parking and emergency brake is not completely released which comprises the combination of a brake-lever, means connecting said lever with the parking and emergency brake of said vehicle, actuating means comprising a crank arm operatively connected with said lever and two concentric torque-transmitting members rigidly connected at one end to said crank arm but with the free ends thereof capable of limited movement relative to each other, the free end of one of said transmitting members being connected by means of a cable with the accelerator pedal of said vehicle to permit only slight movement thereof when the brake is not completely released but permitting full movement when the brake is fully released.

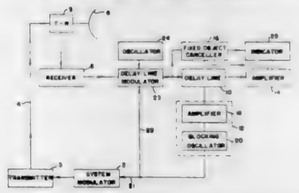
2,532,545
MAGNETRON OSCILLATOR
Edgar Everhart, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 8, 1945, Serial No. 581,693
3 Claims. (Cl. 250—27.5)



3. A magnetron oscillator comprising a base member of conducting material having two portions thereof spaced in substantially parallel relation with respect to each other, and two sets

of elements fixed respectively to said portions and extending across the space therebetween, said elements being substantially equally spaced with respect to the ones adjacent thereto, the elements of one set being alternately disposed with respect to those of the other set and forming therewith and with said base member and with said two portions of the latter a resonant-cavity.

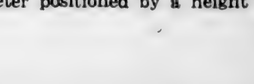
2,532,546
MOVING TARGET INDICATING SYSTEM
Gordon Donald Forbes, Sudbury, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 1, 1945, Serial No. 608,311
9 Claims. (Cl. 343—13)



1. In a radio object locating system having an exploratory pulse transmitter adapted to transmit short duration high carrier frequency exploratory pulses of radiant energy and having a first pulse generating means adapted to periodically actuate said transmitter; a delay type transmission line, said delay type transmission line having a transmitting piezo electrical crystal, a receiving piezo electrical crystal, a synchronizing piezo electric crystal, an adjustable reflector and a transmitting medium, a second pulse generating means, a first portion of each output pulse issuing from said second pulse generating means synchronizing said first pulse generating means, means for applying a second portion of each pulse issuing from said second pulse generating means to said transmitting crystal to set up compressional wave energy in said transmitting medium, a first portion of said compressional wave energy being reflected by said adjustable reflector and impinging on said synchronizing crystal to produce a charge thereon, means for applying said charge as a synchronizing signal to said second pulse generating means whereby the interval between pulses issuing from said second pulse generating means is predetermined by said adjustable reflector in said delay type transmission line, a second portion of said compressional wave energy generated by said transmitting crystal impinging on said receiving crystal to likewise produce a charge thereon, the path lengths traveled by said compressional wave energy being such that the time taken by said first portion of said compressional wave energy to travel from said transmitting crystal to said synchronizing crystal is less than the time taken by said second portion of said compressional wave energy to travel from said transmitting crystal to said receiving crystal by an amount substantially equal to the finite time delay incurred in said second pulse generating means, a target echo pulse receiver coupled to said transmitting crystal, an indicator, and pulse cancelling means having its output coupled to said indicator, said pulse cancelling means being receptive of the output of said receiving crystal and the output of said receiver, whereby the interval between successive exploratory pulses is substantially equal to the time taken for compressional wave energy to travel from said transmitting crystal to said receiving crystal, said interval between successive exploratory pulses remains substantially constant, and echoes from only moving targets will appear on said indicator.

2,532,547
2-AMINOALKYL-GLYOXALINE DERIVATIVES AND PROCESS FOR THE PRODUCTION THEREOF
Alan August Goldberg, Shepton Mallet, and Leo Philipp Ellinger, Halewood, Liverpool, England, assignors to Ward, Blenkinsop & Company Limited, London, England, a British company
No Drawing. Application October 31, 1947, Serial No. 783,438. In Great Britain September 12, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 12, 1966
9 Claims. (Cl. 260—309.6)

1. As new products 2-aminoalkyl glyoxalines having the general formula



in which n is a positive integer and R^1 and R^2 are both selected from the group consisting of hydrogen, alkyl, aryl and aralkyl, and salts thereof.

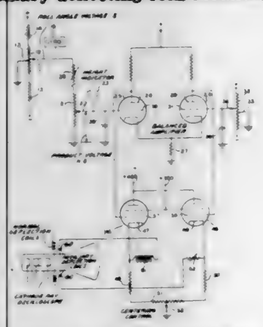
2,532,548
METHOD FOR DISPOSAL OF WASTE PICKLE LIQUOR
Samuel S. Heide, Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Alabama
No Drawing. Application April 7, 1948, Serial No. 19,650
4 Claims. (Cl. 71—31)

1. In a method of disposing of waste pickle liquor comprising small amounts of sulphuric acid and ferrous sulphate in aqueous solution, the steps including bringing molten blast-furnace slag into contact with said liquor whereby the water of the liquor quenches and granulates the slag and is largely evaporated by the heat of the slag, and the basic components of the slag react with the solute of the liquor.

2,532,549
AIRCRAFT RADAR-MAP ROLL CORRECTION SYSTEM
William A. Higinbotham, Sante Fe, N. Mex., and Raymond Pepinsky, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 9, 1945, Serial No. 604,037
9 Claims. (Cl. 343—5)

9. In a radio pulse-echo device carried on aircraft and adapted to form a map-like representation of the underlying surface of the earth on the face of a cathode ray oscilloscope, means for neutralizing the distortion arising in said map-like representation due to roll of the aircraft about its longitudinal axis comprising, means for producing a voltage proportional to the product of the angle of roll and the height above ground, means for amplifying said product voltage, and means for applying the output of said amplifier to that deflecting system of the cathode ray oscilloscope experiencing distortion due to roll, said product voltage means comprising a first potentiometer positioned by a gyroscope, a second potentiometer positioned by a height indicator, a

source of constant potential connected across the first potentiometer, and a connection from the arm of the first potentiometer to one end of the second potentiometer, said applying means including auxiliary deflecting coils mounted on said



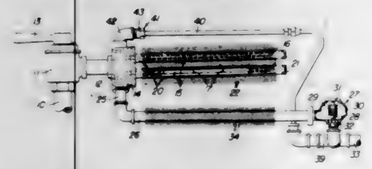
oscilloscope and disposed to cooperate magnetically with one set of normal deflecting coils, and a connection from the output of said amplifying means to said auxiliary coils whereby distortion due to roll is compensated.

2,532,550

STEAM HEATING SYSTEM

Arthur F. Hubbard, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois

Application May 21, 1948, Serial No. 28,322
15 Claims. (Cl. 237—9)



1. In steam heating apparatus comprising a steam supply header, a heating element connected thereto, an exhaust header communicating with said element and a condensate return line, the improvement which comprises a condensate trap disposed at a lower elevation than said heating element and connected to said return line, a condensate cooling duct below said exhaust header interconnecting said trap and said exhaust header, and a pressure equalizing line connecting said exhaust header directly with said return line, said equalizing line including valve means arranged and constructed to prevent steam from flowing from said exhaust header to said return line but permitting air to flow from said return line into said exhaust header.

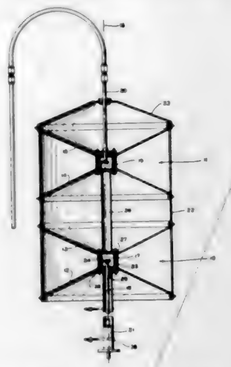
2,532,551

BICONICAL ELECTROMAGNETIC HORN ANTENNA

George A. Jarvis, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 19, 1945, Serial No. 578,764
2 Claims. (Cl. 250—33.63)

1. An assembly for a pair of biconical antennae comprising two sets of truncated, conical, reflecting surfaces oppositely disposed along a common axis, the said surfaces being flanged about their bases and provided with a plurality of circumferentially arranged, equally spaced, longitudinal bores about their truncated surfaces, the uppermost and the lowermost of said conical surfaces being axially apertured; a nonconductive spacing collar positioned between each set of conical surfaces along the axis thereof and provided with a plurality of equally spaced longitudinal bores; a circular, metallic, recessed disc positioned against the inner truncated surface of each of said conical surfaces and about the common axis thereof, the said discs being provided with a plurality of equally spaced bores, the bores in said surfaces, collars and discs being aligned to permit passage therethrough of conductive clamping bolts, the uppermost and the lowermost of said discs being axially apertured complementary to the apertured area of the conical surface adjacent thereto; an annular, metallic bushing having a downwardly extending axial portion adapted to be inserted through the aper-



tured areas of said conical surfaces and discs, the said apertured conical surfaces and discs and the said bushings constituting extreme upper and lower antenna elements of said assembly; radiating elements positioned equidistant between each pair of reflecting surfaces, a pair of transmission lines fixed through the said bushings and connecting one of said radiating elements to a transmitter and the other of said radiating elements to a receiver; a rigid supporting member connected between the two antennae and fixed in the intermediate recessed discs; a hollow second rigid supporting member coaxial with the lower of said transmission lines and fixed in the lower of said recessed discs; a waterproofing sleeve positioned about said antennae and fixed to the flanged bases of said conical surfaces; and a conical waterproofing cover having a downwardly extending flange and fixed about the upper portion of said sleeve, the said cap being centrally apertured to allow passage therethrough of the upper of said transmission lines.

2,532,552

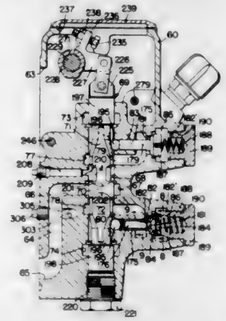
SPEED CONTROL MEANS FOR HYDRAULIC MECHANISMS

Emil F. Jirsa, Merlin Hansen, and Cecil W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co., a corporation of Iowa

Application November 5, 1945, Serial No. 626,626
8 Claims. (Cl. 121—46.5)

1. In hydraulic control mechanism for a fluid motor, a fluid supply duct therefor connectible

to means for supplying fluid at substantially constant rate to said duct, an exhaust passage connected with said supply duct, a control valve connected in said duct and having a member shiftable from an inactive position, in which fluid is free to discharge through said exhaust passage, to a first operating position to close said exhaust passage to allow fluid pressure to build up in said duct to drive the motor, a restricted bleeder



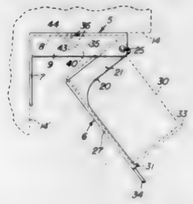
duct separate from said exhaust passage and leading from said supply duct for by-passing a portion of the fluid to cause the motor to operate at reduced speed, said valve member being shiftable from said first operating position to a second operating position in which said member keeps the exhaust passage closed and also closes said bleeder duct thereby causing the motor to operate at its maximum speed.

2,532,553

CAN OPENER

Bert H. Johnson, Moline, Ill., assignor to Quad-City Engineering Co., Rock Island, Ill., a corporation of Illinois

Application July 3, 1948, Serial No. 36,961
7 Claims. (Cl. 30—8)



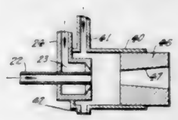
6. A can opener comprising in combination, an overhanging support, a piercing tool depending from said support, a can-carrying cradle swingably disposed beneath said piercing tool and comprising an upper bail portion having its ends normally extending generally forwardly toward the operator to receive a can therebetween and pivotally mounted on said support by means providing for upward and rearward swinging movement about a transverse axis extending between the ends of said bail portion, into a can-piercing position in which said bail straddles said tool, said cradle also having a can carrying portion depending from the rear portion of the bail and having a forwardly projecting lip for supporting the bottom edge of the can, said cradle being swingable upwardly to guide a can therein upwardly into piercing engagement with said tool.

2,532,554

METHOD FOR ATOMIZING BY SUPERSONIC SOUND VIBRATIONS

Thomas D. Joeck, Westfield, N. J.

Application January 29, 1946, Serial No. 644,005
4 Claims. (Cl. 299—1)



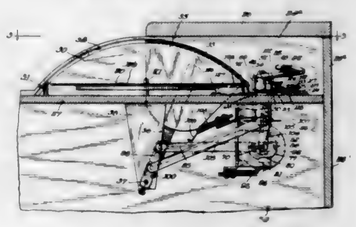
1. The method of intimately mixing liquids which comprises discharging concentric streams of said liquids under pressure into a sound augmenting resonance chamber, and subjecting said liquids to a jet of supersonic sound vibrations in said chamber, whereby the liquids are homogeneously and intimately mixed, said chamber being resonant to the frequency of said supersonic sound vibrations.

2,532,555

TONE ARM PROTECTING MECHANISM

Benedict R. Kamler, South Haven, Mich., assignor to Edward Gray, Chicago, Ill.

Application August 27, 1945, Serial No. 612,836
16 Claims. (Cl. 274—9)



1. In phonograph mechanism, in combination, a cabinet, a turntable and means for rotating the same housed by the cabinet, canopy means for covering said turntable having an open and a closed position with the cabinet, said canopy means in open position rendering the turntable accessible to the operator for changing a record and in closed position covering said turntable in combination with the cabinet for protecting the record, a tone arm having a position of rest within the cabinet and rearwardly of the canopy means when in open position, and means for actuating the tone arm from said position of rest to an operative position and return for playing the record, said canopy means having movement from an open to a closed position in synchronism with the tone arm.

2,532,556

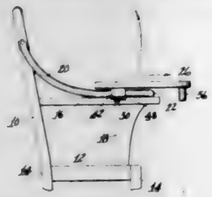
HIGH CHAIR CONSTRUCTION

Patrick J. Keough, Gardner, Mass., assignor to Arlington Chair Co., Gardner, Mass., a corporation of Massachusetts

Application November 20, 1946, Serial No. 711,058
4 Claims. (Cl. 155—127)

1. An article of manufacture comprising a seat, an upstanding support, and a pair of spaced horizontal supports, a frame pivoted to the first support and including a cross piece resting on and across the horizontal supports in spaced relation to the first support, and a detachable

tray on the frame adapted to form a substantially horizontal article support with the cross



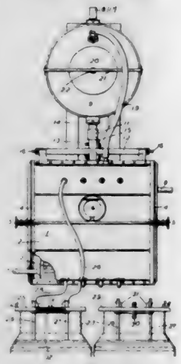
piece in position on the arms, the frame being otherwise free of the arms.

2,532,557

APPARATUS FOR COOLING MILK AND FOR FILLING MILK CONTAINERS

Jonas A. Kingston, Reading, England, assignor to Gascoignes (Reading) Limited, Reading, England, a British company

Application May 20, 1947, Serial No. 749,379
In Great Britain October 31, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 31, 1965
2 Claims. (Cl. 226—70)



1. Apparatus for cooling milk and for filling milk cans comprising in combination a support; a vacuum vessel mounted on said support and adapted to receive milk from vacuum-operated milking machinery; a dust-proof tunnel-like chest detachably and horizontally mounted on said support below said vacuum vessel; a milk cooler removably installed within said chest; a first pipeline connecting said vacuum vessel to said chest to supply milk to the cooler in the chest; a second pipeline connecting said vacuum vessel to said chest so as to provide in the chest the same condition of vacuum as obtains in the vacuum chest; at least one can head adapted to rest on the rim of an open-top milk can to cover the can mouth in air-tight manner, said can head being connected to said chest by first and second pipelines respectively for conveying cooled milk from the chest to the covered can and to provide in said covered can the same condition of vacuum as obtains in the interconnected vacuum vessel and chest and both of said pipelines being stopped off by and when milk accumulating in the can reaches a predetermined level, further inflow of milk to the can being thereby arrested automatically.

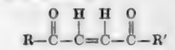
2,532,558

PEST CONTROL COMPOSITIONS FOR THE CONTROL OF BACTERIA AND FUNGI CONTAINING 1,2-DIACYLETHYLENE

James E. Kirby, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 14, 1946, Serial No. 654,513
7 Claims. (Cl. 167—22)

1. A pest control composition for the control of bacteria and fungi comprising in dilute aqueous solution a wetting agent and a 1,2-diacylethylene having formula



where in the acyl groups

contain from 2 to 7 carbon atoms and are selected from the class consisting of alkanoyl and aroyl groups, said 1,2-diacylethylene being an essential active ingredient therein.

2,532,559

HYDROCARBOSILICON ISOCYANATES

David X. Klein, Andover, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 3, 1946, Serial No. 701,059
14 Claims. (Cl. 117—123)

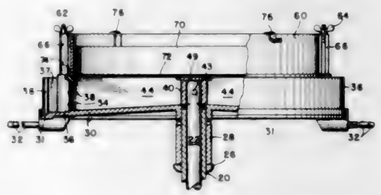
1. An alkylsilicon isocyanate.

2,532,560

MECHANISM FOR STRAINING PAINT AND THE LIKE

Harry Lamb, Madison, Wis., assignor to C. M. Ambrose Co., Inc., Seattle, Wash., a corporation of Washington

Application February 14, 1948, Serial No. 8,376
6 Claims. (Cl. 210—152)



1. A mechanism for straining paint fluids and the like, comprising: wall means forming a relatively flat and broad chamber the upper wall of which is foraminous; wall means for containing and pooling fluid to be strained above said chamber and upon said upper foraminous wall; an upright septum for completely dividing said chamber into a pair of laterally adjacent cells, said septum being reciprocally movable horizontally to progressively increase the lateral dimensions of one cell while at the same time decreasing the lateral dimensions of the other cell; means for reciprocally moving said septum horizontally; said cells each having a unidirectional outlet means of a capacity to permit the outflow of fluid from the cell at a rate to insure a slight pressure upon the fluid in front of the advancing septum.

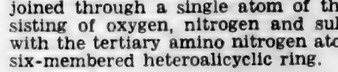
2,532,561

BETA-TERTIARY-AMINOADIPONITRILES

Carl M. Langkammerer, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 21, 1948, Serial No. 28,522
8 Claims. (Cl. 260—247)

1. A beta-tertiary-aminoadiponitrile having the formula



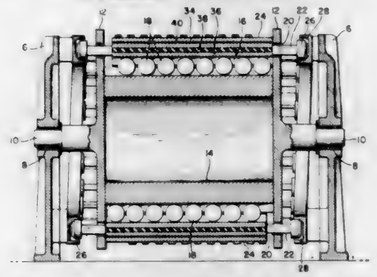
wherein R and R′ are selected from the group consisting of alkyl radicals containing from 1 to 16 carbon atoms, monoalkenyl radicals containing from 3 to 16 carbon atoms, hydrocarbon radicals joined to each other to form with the tertiary amino nitrogen atom a five- to six-membered heteroalicyclic ring, and hydrocarbon radicals joined through a single atom of the class consisting of oxygen, nitrogen and sulfur to form with the tertiary amino nitrogen atom a five- to six-membered heteroalicyclic ring.

2,532,562

CONTINUOUS STRAND HELICAL CONVEYING AND HEATING APPARATUS

Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application September 12, 1949, Serial No. 115,141
3 Claims. (Cl. 219—19)



1. A continuous strand helical conveying and heating reel comprising a pair of spaced apart housings, a roll body extending between and rotatably mounted in said housings, a plurality of non-rotatable splines arranged around the periphery of said body, heating elements in said splines, each of said housings having a helically formed cam groove therein facing the opposite housing, the ends of said splines extending into said cam grooves, the bottom of said cam grooves over a portion of their periphery being arranged at an angle with a plane perpendicular to the axis of the reel to move the splines axially in one direction, and the remaining portion of said cam grooves having the bottom thereof arranged at an oppositely extending angle to move the splines axially an equal amount per degree of reel revolution in the opposite direction.

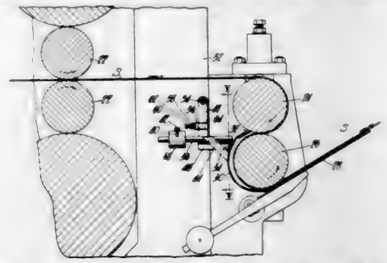
2,532,563

STRIP GUIDING APPARATUS

Glenn R. Markle, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application November 27, 1945, Serial No. 631,016
3 Claims. (Cl. 271—2.1)

2. Apparatus for guiding strip through a two roll tensioning device mounted in a housing and around each of which rolls the strip is wrapped over a substantial arc comprising a bent guide surrounding one of the rolls throughout a substantial part of the distance that the strip is in contact therewith, said guide being spaced from said last named roll a sufficient distance to provide clearance for the strip, a pivot support for said guide at each end thereof outside the path of travel of said strip, said pivot supports



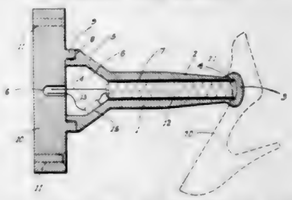
being above the top of the last named roll, said pivot supports being located so that the guide will normally swing into position around the roll, a stop mounted on said housing outside the path of travel of said strip, a bracket attached to and extending from said bent guide toward said stop, and a bolt adjustably mounted in said bracket with one end thereof bearing against said stop to limit the inward movement of said guide.

2,532,564

RESHAPING DEVICE FOR SHOES

Arthur W. McKay, Sacramento, Calif.

Application January 31, 1949, Serial No. 73,741
1 Claim. (Cl. 12—51)



In a shoe reshaping device which includes an elongated mandrel having an enlarged rounded shoe-engaging head on its outer end, a supporting block for the mandrel adapted to be secured against a vertical surface, a ring-like boss projecting from the outer face of the block, the latter having a wire-passage leading to said outer face within the boss, an enlarged base on the mandrel removably engaged with the boss, the mandrel having an enlarged chamber in the base extending to the outer end thereof and a smaller cylindrical bore extending in the mandrel to the head from the inner end of the chamber, a cylindrical heating element in the bore and circuit wiring leading from the element into the block passage; there being a thermostat interposed in said wiring within the base chamber.

2,532,565

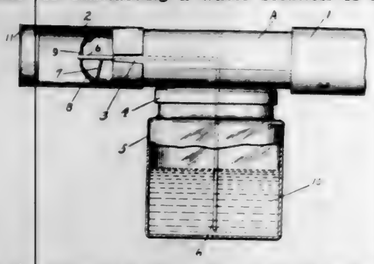
LATHER-PRODUCING DEVICE

Ralph Miller, Muncie, Ind.

Application February 19, 1948, Serial No. 9,352
5 Claims. (Cl. 259—4)

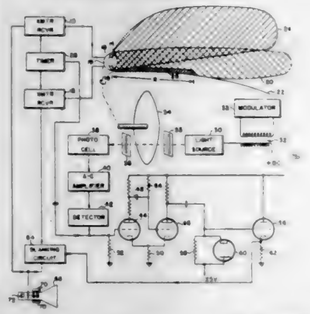
1. A lather-producing device comprising a barrel having at one end an inlet for a current of air, means for supplying air under pressure to

said inlet, a plurality of wire mesh discs filling the barrel adjacent to its other end, and a tube having an outlet in an intermediate part of the barrel for conducting a water solution of soap



into the current of air so that a jet of said solution will be blown through the plurality of discs and be aerated thereby to produce a lather, the side walls of the barrel being imperforate between the outlet of the tube and the wire mesh discs.

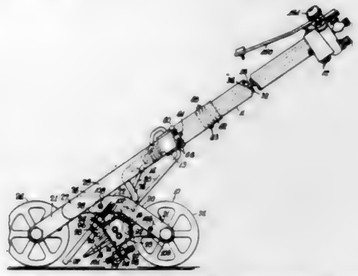
2,532,566
PHOTOELECTRIC GATE CONTROL FOR PULSE-ECHO SYSTEMS
Jacob Millman, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 26, 1945, Serial No. 624,909
5 Claims. (Cl. 343—5)



3. In combination, a plurality of transmitter-receiver means for transmitting a plurality of beams of electromagnetic pulses and for receiving and producing a video pulse output from electromagnetic echo pulses, indicating means, means for photoelectrically controlling the production of a periodic voltage pulse the duration of which varies according to predetermined requirements, means for utilizing said periodic voltage pulse to effect the application of a selected portion of the video pulse output of certain of said transmitter-receiver means to said indicating means, and means for applying the video pulse output of the remainder of said transmitter-receiver means to said indicating means.

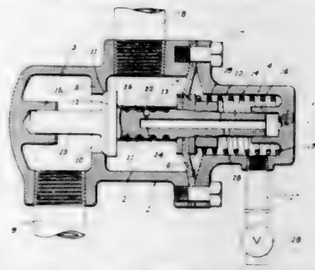
2,532,567
DESCALING BURNER
Chester Mott, Evanston, and Alfred F. Chouinard and Mitchell A. Tylutki, Chicago, Ill., assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application August 7, 1945, Serial No. 609,360
14 Claims. (Cl. 263—9)

1. A burner for progressively heating a metal member along the surface thereof, said burner including a burner head having two separate parallel passages for an oxygen-acetylene mixture and two rows of tips, each row leading from a separate passage, and the tips of each row being slightly inclined toward those of the other row and being of such length as to align the outlet ends of all of said tips in substantially a single straight line extending lengthwise of said burner head.



12. An apparatus for heat treating a metal surface, including a portable frame, a burner body extending transversely of said frame and having a row of nozzles directed toward the surface to be treated, means for supporting said frame and the burner nozzles carried thereon in spaced relation to the surface to be treated, said supporting means being located both in advance and behind the burner body for effecting relative movement thereof with respect to the surface to be treated, and a plurality of guard means for protecting the tips of said burner nozzles, each of said guard means being supported by said frame adjacent to one of said burner nozzles but spaced therefrom and directed toward the surface to be treated, the terminal portion of each of said guard means being located at a point closer to the surface to be treated than the tip of the adjacent burner nozzle.

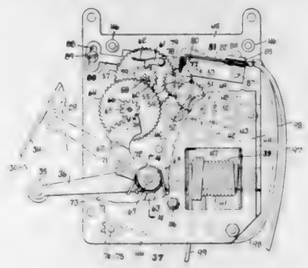
2,532,568
VALVE UNIT
William M. Myers, Fresno, Calif.
Application March 29, 1946, Serial No. 658,004
2 Claims. (Cl. 137—139)



1. In a valve unit, a hollow body, a diaphragm mounted therein to form a main pressure chamber and another chamber, a valve in the body, a stem on the valve extending from the main chamber into the other chamber axially through and attached to said diaphragm, spring means urging the stem in a valve closing direction, there being passage means formed in the stem to bleed pressure from the main chamber to the other chamber, and means to release pressure from said other chamber; said passage means being formed by providing the stem with an axial bore open to

the other chamber, a radial bleed duct in the stem extending from said bore into communication with the main chamber, a screen sleeve surrounding the portion of the stem in said main chamber, that portion of the stem in the main chamber being formed with a plurality of spaced circumferential grooves, and a longitudinal channel connecting said grooves, the radial bleed duct opening into said channel.

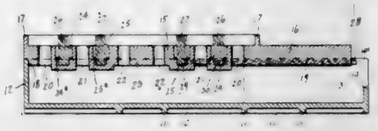
2,532,569
AUTOMATIC ELECTRIC TOASTER AND THE LIKE
Arthur B. Poole, Harwinton, and Peter H. Morganson, Winsted, Conn., assignors to The William L. Gilbert Clock Corporation, Winsted, Conn., a corporation of Connecticut
Application January 29, 1948, Serial No. 4,988
2 Claims. (Cl. 99—333)



1. An electrically-heated and electrically-timed automatic toaster or the like, including in combination: a food-holder; electric heating-means located adjacent the said food-holder for heating the contents thereof; an electric switch controlling the supply of current to the said electric heating-means; a unitary timing-device for controlling the said electric switch and including a frame, a synchronous electric motor carried by the said frame; actuating-means for the said electric switch and also carried by the said frame, a gear-train operatively connecting the said synchronous electric motor to the said actuating-means, a movable adjusting-member carried by the said frame adjacent the said gear-train, and a heat-distortable retarding-member carried by the said adjusting-member and movable therewith as well as with respect thereto and constructed and arranged when cool to engage with the said gear-train to retard the movement thereof against the urge of the said motor and when heated to distort and retire out of retarding relationship with respect to the said gear-train, the said movable adjusting-member being movable with respect to the gear-train to selectively determine the temperature at which the said heat-distortable retarding-member will retire out of engagement with the said gear-train; and electrical connecting-means connecting the said synchronous electric motor and the said heat-distortable retarding-member in series.

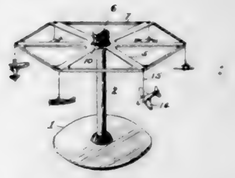
2,532,570
WICK TYPE OIL BURNER
John F. Meyer, Indianapolis, Ind.
Application March 12, 1947, Serial No. 734,088
1 Claim. (Cl. 158—94)

A burner having a main body, a tray type base having an outline substantially corresponding to that of the body, an extension on each, the base extension projecting beyond the body extension and forming at the remote ends thereof a throat with a restricted mouth for air supply, the body being supported on the base to form a cover for the same and an air supply chamber therewith, an upstanding rim upon and defining the outline of the body, walls in said body forming a plurality of fuel supply troughs, same being substantially equidistant from each other, said body having a plurality of sequentially spaced air passages extending therethrough and disposed between each pair of troughs, certain of said



air passages being disposed between the rim and the trough closest thereto, the inner side walls of each trough having a lateral shoulder spaced between the top and bottom of the trough for exposure of the mid-portions of the opposite sides of the wick, and a wick seated in the bottom of each trough and extending upwardly toward the top thereof and terminating above the level of the adjacent shoulders and approximately in the plane of the top edge of the rim.

2,532,571
TOY ROUNDABOUT
Reuben G. Reeves, Camden, N. J.
Application March 5, 1946, Serial No. 652,086
2 Claims. (Cl. 272—31)

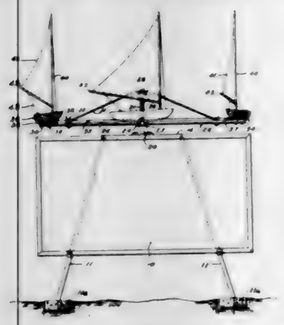


1. A toy comprising a horizontal base member provided with an aperture, a vertical post frictionally engaged in the aperture having a reduced upper end forming a journal pin, a revoluble head provided with a circular aperture having notches, said head having arms provided with elongated slots at their extremities, a knurled twirling knob having a flange fitting within said head aperture, and provided with a recess receiving the journal pin, a clamping band encircling the flange on the knob and having fingers extending through the aforesaid notches for locking the knob on the head, flat plates having hooked ends engaging the slots in said arms and objects freely suspended from said plates.

2,532,572
DEVICE FOR ATTRACTING ATTENTION TO BILLBOARDS
Reuben G. Reeves, Camden, N. J.
Application September 19, 1947, Serial No. 774,935
1 Claim. (Cl. 272—31)

An attachment for bill boards comprising a base plate adapted to be secured to a bill board, a vertically extending hub fixed to said plate and having an axial bore therein, the upper surface of the hub having a cylindrical recess therein, a vertical post having its lower end jour-

nailed in the hub bore, ball bearing means resting on said plate and contacting the end of the post for sustaining said post, a collar on the post and fitting within said hub recess, anti-friction bearings within said recess contacting said collar to laterally support the post, a plate mounted on the post above the hub having radial projections rectangular in cross section, radially extending

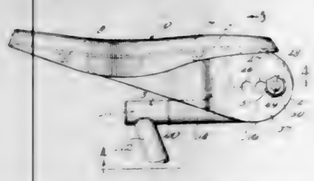


tubular struts having their inner ends swaged to embrace said projection, a collar attached to the upper end of the post having a plurality of vertical apertures therein, radially extending suspension members corresponding in number with the struts and having hooked inner ends adapted to fit in said vertical apertures, said members having hooked outer ends for detachably connecting the members to said struts.

2,532,573
PROCESS FOR PREPARING VINYLTHIAZOLES
Leroy Frank Salisbury, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 19, 1946, Serial No. 677,919
11 Claims. (Cl. 260—302)

1. A process for preparing vinylthiazoles which comprises bringing a beta-thiazolylethanol in contact with an alkali metal hydroxide catalyst at a temperature between 130° C. and 225° C. and at a subatmospheric pressure below the vapor pressure of the vinylthiazole produced in said process, and removing said vinylthiazole from the catalyst by distillation.

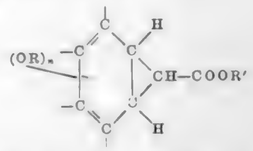
2,532,574
SADDLE MOUNTING
Frank W. Schwinn, Chicago, Ill.
Application September 13, 1944, Serial No. 553,844
4 Claims. (Cl. 155—5.17)



1. In a saddle mounting for bicycles, the combination of a saddle structure having a pair of rigid frame members secured to the lower surface thereof and extending forwardly from the rear of the saddle toward the nose thereof, said frame members being provided with a pair of relatively large flat end portions disposed with their flat surfaces extending longitudinally of the saddle nose and substantially perpendicular to the general plane of the saddle structure, said end portions having a plurality of longitudinally displaced and aligned apertures therein, a seat post mast having a forwardly extending and flat enlarged end portion of substantially the same size and shape as and disposed between the end portions of the frame members, said end portions of the frame members and seat post mast being spaced apart and connected together through layers of live resilient material bonded to the adjacent flat surfaces thereof so that a load on the saddle structure effects shearing stress in the resilient material, said enlarged end portion of the seat post mast and said resilient material having apertures therein registering with the apertures in the end portions of the frame members, and a clamping element extending through a selected set of said registering apertures for clamping all of said end portions together and providing a fulcrum for relative movement of the enlarged end portion of the seat post mast and the end portions of the frame members, the apertures selected determining the center of said shearing stress and thereby adapting the resiliency of the assembly to the need of the user.

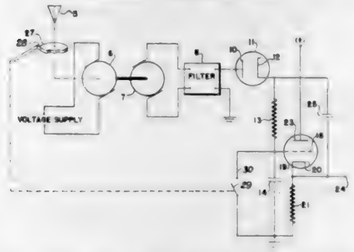
2,532,575
OXYBICYCLO(4.1.0)HEPTA-2,4-DIENE-7-CARBOXYLIC ESTERS
Norman E. Searle, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 3, 1947, Serial No. 783,843
10 Claims. (Cl. 260—468)

1. An ester of a fused ring carbocylic compound consisting of a cyclopropane ring fused with an oxy-substituted cyclohexadiene ring having a four-carbon atom conjugated diene system, said ester having the following structural formula



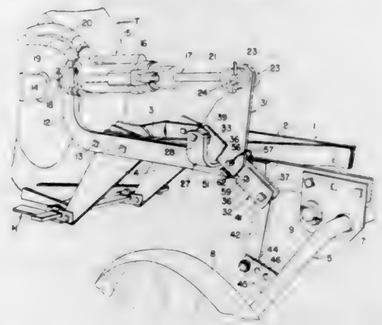
wherein OR is selected from the class consisting of the hydroxyl group and alkoxy groups of from 1 to 6 carbon atoms, n is an integer from 1 to 2 inclusive, each OR group is directly attached through the oxygen thereof to an annular carbon atom of the four-carbon atom conjugated diene system of said cyclohexadiene ring, R′ is a saturated monovalent hydrocarbon radical of from 1 to 12 carbon atoms, at least one of the annular carbon atoms of the four-carbon atom conjugated diene system of said cyclohexadiene ring is directly attached to a hydrogen atom and any remaining annular carbon atoms of the four-carbon atom conjugated diene system of said cyclohexadiene ring are each directly attached to a member selected from the class consisting of hydrogen, halogen, alkyl radicals of from 1 to 6 carbon atoms and a divalent four-carbon atom conjugated diene radical having terminal valences which are directly attached to adjacent doubly-bonded annular carbon atoms of said cyclohexadiene ring.

2,532,576
ELECTRICAL APPARATUS
Chalmers W. Sherwin, Belmont, and Henry A. Straus, Brookline, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application August 1, 1945, Serial No. 608,305
3 Claims. (Cl. 250—36)



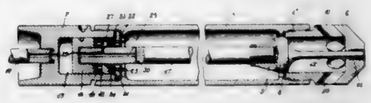
1. An apparatus for generating a saw-tooth voltage including a resistor and capacitor in series, said capacitor being shorted by switching means operable at a variable frequency, and a source of voltage across said resistor and capacitor varying as the frequency of switching varies for charging said capacitor through said resistor, said voltage variations being coordinated with the switching frequency of said switching means and with the charging characteristics of said resistor-capacitor combination to provide a saw-tooth voltage of substantially constant maximum amplitude across said capacitor at all switching frequencies.

2,532,577
DETACHABLE POWER UNIT FOR PLOWS
Walter H. Silver and John I. Cantral, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 30, 1945, Serial No. 632,074
18 Claims. (Cl. 97—50)



1. For use with an agricultural machine having frame means and a part rockably mounted thereon, a two-way acting power device and means detachably connecting said power device with said frame means: the improvements comprising a first arm member, means swingably connecting said first arm member with said frame means, means detachably connecting the free end of said arm member with said power device, a second arm member, means swingably connecting said second arm member with said frame means about the same axis as said first arm member, means operatively connecting the second arm member with said implement part, said second arm member including stop means adapted to be engaged by said first arm member when said power device is operated in one direction, whereby swinging of said first arm member acts through said second arm member for swinging said part from one position to another, said arm members having registering apertures adapted to move into registry when said first arm member engages said stop means on said second arm member, and means insertable through said apertures and removable therefrom for detachably connecting said arm members so that the latter and said implement may be moved in either direction by operation of said power device in either direction.

2,532,578
MATERIAL BREAKING SHELL
Russell Spencer, Sullivan, Ind., assignor to Cardox Corporation, Chicago, Ill., a corporation of Illinois
Application August 15, 1946, Serial No. 690,767
9 Claims. (Cl. 102—25)



1. A material breaking shell comprising a container having a chamber to receive a high pressure gaseous charge and having a discharge orifice therefrom, a valve means for closing said orifice, a valve operating means having a connection to said valve means to control its position, said container having an inlet for connection to a source of charging gas, said valve operating means including means acted upon by the flow of charging gas into said chamber from said inlet for causing rotation of the valve means as it moves toward said orifice, and means to prevent rotation of said valve means as it moves away from said orifice.

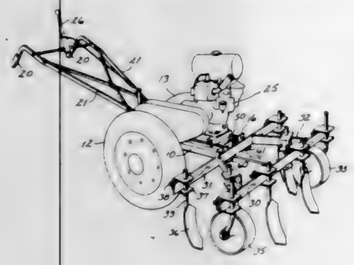
2,532,579
PEST CONTROL COMPOSITIONS CONTAINING BETA-ACYL ACRYLATES
John C. Thomas, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 6, 1946, Serial No. 688,716
10 Claims. (Cl. 167—22)

6. A pest control composition comprising in aqueous medium a wetting agent and, as an essential active ingredient therein, a beta-acyl acrylate having the formula RCOCH=CHCOOR′ where R is a member of the group consisting of aryl radicals, chloroaryl radicals, and alkyl radicals containing from 1 to 6 carbon atoms and R′ is a member of the group consisting of aryl radicals and alkyl radicals containing from 1 to 6 carbon atoms.

2,532,580
POWER GARDEN TRACTOR
John E. Tom, East Cleveland, Ohio, assignor, by mesne assignments, to Earl Realty Company, Cleveland, Ohio, a corporation of Ohio
Application July 25, 1946, Serial No. 686,226
5 Claims. (Cl. 97—48)

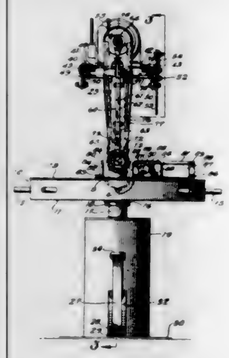
3. In a two-wheeled power driven tractor having a frame, a tool frame comprising a pair of

parallel bars, a centrally disposed bar rigidly attached to the parallel bars and extending transversely thereof, said last-mentioned bar projecting beyond the rearward end of the tool frame and terminating adjacent the mid-portion of the tractor frame, a loosely fitting pin providing a detachable connection between the tractor frame and the terminating end of said last-mentioned



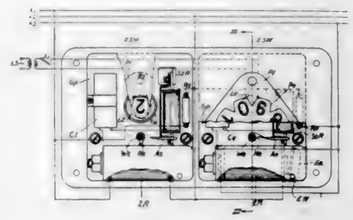
bar, and another pin providing a pivotal connection between said last-mentioned bar at an intermediate point thereof and the tractor frame, the pivotal connection being disposed adjacent the forward end of the tractor frame, and an abutment on the tractor frame for limiting the pivotal movement of the tool frame with respect to the tractor frame.

2,532,581
POLISHING MACHINE
Melvin V. Triggs, Alhambra, Calif.
Application January 23, 1948, Serial No. 3,860
3 Claims. (Cl. 51—32)



3. A polishing machine, including a turntable formed with openings for receiving work, a polishing wheel positioned above the turntable openings for receiving work, a dirigible carriage, means for mounting the carriage above said turntable and for diametric movement relative to said turntable; an electrical motor and its shaft supported on the dirigible carriage, means between the motor shaft and said polishing wheel for rotating same when the motor is energized, and a freely movable swing support carried by the motor shaft for the polishing wheel.

2,532,582
SYNCHRONIZING DEVICE FOR STEPPING MECHANISMS
Otto Tschumi, Soleure, Switzerland, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland
Application December 30, 1947, Serial No. 794,576
In Switzerland February 26, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 26, 1963
3 Claims. (Cl. 177—353)

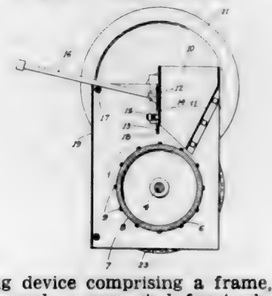


1. In an installation for the optical indication of indicia, the combination of a rotatable shaft, a disc carrying said indicia and a toothed wheel fixed on the shaft, an oscillatable actuator carrying spaced fingers engageable with the teeth of said wheel, a direct current electromagnet for moving said actuator in one direction to move said wheel one half pitch by engagement of one of said fingers with a tooth of the wheel, a spring for moving the actuator in the opposite direction to move said wheel a second half pitch by engagement of the other finger with a tooth of the wheel, a locking cam fixed on said shaft, a locking magnet comprising an armature normally in the path of said cam in a position to block said cam and thereby lock the shaft prior to the last half pitch before reaching a predetermined zero position, and an alternating current coil for retracting said armature out of the path of said cam, an electric light for illuminating said indicia, a source of electric current for the light, a relay for connecting the light to said source of current, an audible alarm including a coil and condenser and a contact circuit comprising a pair of conductors, the electromagnet for moving the actuator and the coil of the locking magnet being connected in parallel with one another across said pair of conductors, a condenser in series with the locking magnet coil, a third conductor, the light relay and the audible alarm being connected in parallel with one another between the third conductor and one conductor of said pair, with the condenser and coil of the audible alarm in series with one another, sources of direct current and of alternating current, switching means for intermittently connecting said pair of conductors to a direct current source to energize the electromagnet for moving the actuator to turn the toothed wheel, shaft and disc until blocked by the engagement of said cam with the armature of the locking magnet in a position one half pitch before said zero position, switching means for connecting said pair of conductors to an alternating current source to energize the locking magnet and thereby unlock said shaft, switching means for connecting said third conductor and one conductor of said pair to a direct current source to energize the relay controlling the light and means for connecting the third conductor and one conductor of said pair to an alternating current source to actuate said alarm.

2,532,583
SILICON-CONTAINING POLYMER PREPARATION
Leo Walter Tyran, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 24, 1945, Serial No. 606,875
2 Claims. (Cl. 260—80)

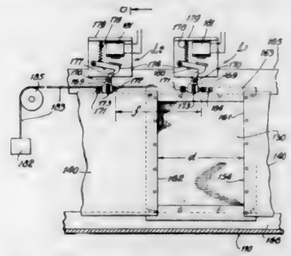
2. A resinous homopolymer of vinyl silicon trichloride.

2,532,584
FEEDING DEVICE FOR NONFREE-FLOWING MATERIALS IN BULK WITH ADJUSTABLE FLOW CONTROL PLATE AND ELONGATED HANDLE THEREFOR
Edward J. Vagim, Fresno, Calif.
Application March 28, 1945, Serial No. 585,365
1 Claim. (Cl. 222—314)



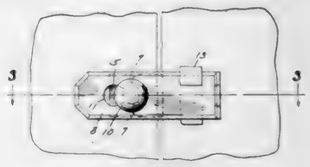
A feeding device comprising a frame, spaced side plates and a connected front plate rigid with the frame, a driven horizontal-axis material feeding drum journaled on the frame and extending between the side plates and spaced back from the front plate, a hopper mounted above the drum in material supplying relation thereto and including a front wall unit having a vertically adjustable flow control plate whose bottom edge terminates short of the drum whereby to form a material feeding slot, an elongated handle hinged on the front face of the control plate and extending thence forwardly over the front plate to a termination some distance in front of the same, and a fulcrum member adjacent the top of the front plate on which the handle rests intermediate its end.

2,532,585
APPARATUS FOR THE PRODUCTION OF DOT-COMPOSED NEGATIVES
Ludwig Mies van der Rohe and Walter Peterhans, Chicago, Ill.
Application June 26, 1946, Serial No. 679,308
4 Claims. (Cl. 88—24)



1. In a photographic apparatus for the production of dot-composed negatives from a positive, a stationary holder for a negative in said apparatus, a negative disposed in said holder, a mask adjacent said negative and having a window, and a dot-composed half-tone screen mounted in said window and adjacent said negative and being smaller than said negative and including a pattern of alternating transparent and opaque dots, each two adjoining like dots being spaced from each other for a certain distance in a predetermined direction, said screen being movable, with said mask, along said negative in a direction at a fixed angle to said predetermined direction, in combination with, means for moving said screen from one position to another along said negative comprising guiding means and a series of registry means intermediate said movable screen and said stationary holder, said registry means arranged to be spaced from each other for a distance constituting a multiple of said certain distance for preserving substantially exact dot-pattern continuity on said negative throughout the screen reproductions, and comprising a latch secured with relation to said screen and movable therewith, and a series of abutment means spaced from each other for said last named distance and associated with relation to said stationary holder and operable to be moved into the path of said latch engaging the same and to be moved out of said path for disengagement from said latch and for subsequent movement of said screen, and electrically controlled means for impelling said abutment means at least during one of said movements.

2,532,586
PORTABLE LOCK FOR SWINGING DOORS
Bertram N. Wickwire, Pelham Manor, N. Y.
Application August 30, 1946, Serial No. 693,928
1 Claim. (Cl. 292—288)

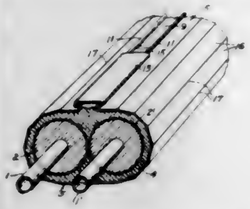


A portable lock for swinging closures, comprising a supporting plate having a right-angled portion terminating in prongs extending therefrom in parallel spaced relation with the supporting plate, a pivot pin extending from the supporting plate, the shank of the pivot pin being square in cross section, a locking bar having a keyhole slot in which the shank of the pivot pin operates, the keyhole slot being disposed longitudinally of the locking bar, said shank engaging the walls of the slot, holding the locking bar in its horizontal locking position over the closure, one end of the locking bar being extended at right angles providing a finger piece, and said prongs and right-angled end portion being fitted over one edge of a door frame securing the supporting plate in position on a door frame.

2,532,587
THERMAL INSULATED PIPE
Thomas F. M. Williamson, San Francisco, Calif., assignor to Alexander H. Isenberg, Woodside, Calif.
Application March 4, 1946, Serial No. 651,848
5 Claims. (Cl. 154—44)

1. An insulated pipe comprising a conveyor pipe enclosed in thermal insulation and spacedly

supported within an outer deformable tubular casing shell having an arcuate wall portion and a pourable filling of moisture impervious material in the space, said casing shell having in its arcuate wall portion a plurality of successively connected relatively angularly disposed



flat areas arranged arcuately, said flat areas being non-rigid and axially longitudinal of and integral with the wall of the casing shell to provide for radial expansion of the filling, the angle vertex between said flat areas being radially outward relative to the longitudinal axis of the enclosed pipe.

2,532,588

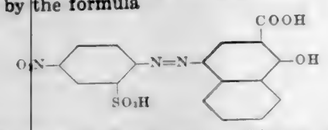
AZO DYESTUFF FOR DYEING ANIMAL FIBERS IN SHADES OF BROWN

Harold E. Woodward, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 4, 1947, Serial No. 778,028

1 Claim. (Cl. 260—202)

The compound which in its acid form is represented by the formula



the disodium salt of said compound being a brown dye for hair and being readily soluble in water.

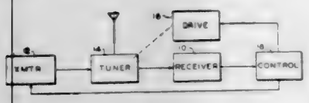
2,532,589

SIGNAL-SEEKING TRANSCEIVER

William Ieu-liang Wu, New York, N. Y., assignor to the United States of America as represented by the Secretary of War

Application July 9, 1945, Serial No. 604,066

5 Claims. (Cl. 250—15)



5. Radio apparatus for transmitting in response to a received signal, including a receiver, a transmitter, means for tuning said receiver in a given direction, means for reversing the direction of said tuning in response to a received signal, means for restoring said tuning to said given direction after a predetermined interval, means for activating said transmitter only during said interval, and means for tuning said transmitter through the frequency range traversed by said receiver tuning during said interval, whereby the apparatus is enabled to alternately search for a signal and transmit in response to it.

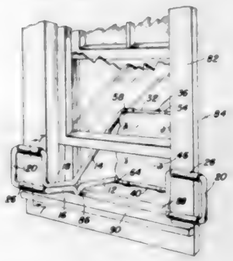
2,532,590

SAFETY SEAT FOR WASHING WINDOWS

Anthony Anastasi, Dorchester, Mass.

Application October 6, 1947, Serial No. 778,178

7 Claims. (Cl. 20—71)



1. A window seat comprising a pair of side members, angular cross bars carried by each of said side members, connecting bars slidably engaging said cross bars of said side members, means for selectively adjusting said cross bars relative to said connecting bars, a back rest carried by said connecting bars, and means carried by said side members for engaging the facing strips of a window frame.

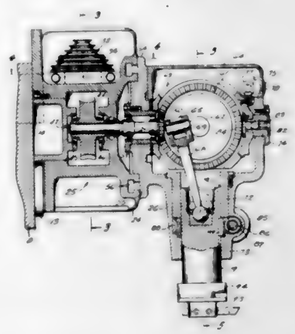
2,532,591

SLOTTING MACHINE

Joseph B. Armitage, Wauwatosa, and James N. Flannery, West Milwaukee, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin

Application July 11, 1946, Serial No. 682,788

16 Claims. (Cl. 90—44)



6. In a slotting attachment for a milling machine of the knee and column type, a frame arranged to be secured to the column of the milling machine, a cutter carrying ram slidably mounted in said frame for vertical reciprocatory movement toward and from the work supporting knee, a connecting rod pivotally attached to said ram and extending upwardly therefrom, a driving crank pivotally attached to said connecting rod, power operated means connected to gyrate said crank for actuating said connecting rod to reciprocate said ram, and means to adjust the inclination of the plane of gyration of said crank to the vertical for regulating the length of stroke of said cutter carrying ram.

2,532,592

REFRACTORY LINER MATERIAL

David Meyer, Canton, and Mathias G. Balzer, Dover, Ohio, assignors to Meyer-Balzer Fuel Unit, Incorporated, Dover, Ohio, a corporation of Ohio

No Drawing. Application November 23, 1948, Serial No. 61,725

7 Claims. (Cl. 106—61)

2. A porous refractory liner composition consisting of a body of non-shrinking high fusion basic flint clay and a binder selected from the class consisting of Sagger clay, Ball clay, and dolomite, said body containing a small quantity of a mixture of equal parts of powdered alum, permanganate of potash and salicylic acid and sixteen parts of plaster of Paris, the ratio of the mixture to the total composition being approximately sixteen pounds to the ton.

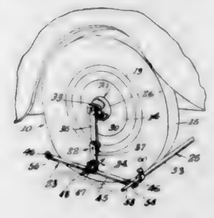
2,532,593

MEANS FOR MEASURING WHEEL ALIGNMENT

John H. Bender and Donald H. Shooter, Maywood, Calif.

Application November 6, 1946, Serial No. 708,178

7 Claims. (Cl. 33—203.2)



6. In a device for measuring the alignment of a pair of wheels, a horizontal member extending parallel to the plane of each wheel, means magnetically mounting each horizontal member on the hub of each respective wheel, each member having a stop at each end thereof and the stops being uniformly distant from the vertical middle of each respective wheel, and a member adapted to be positioned against the two aligned stops on each side of the wheels to span each aligned pair of ends of said horizontal members for measuring the difference of the distances between said aligned pairs of ends, said latter member being adjustably extensible and having scale graduations for reading the difference of said distances with respect to zero in said scale.

2,532,594

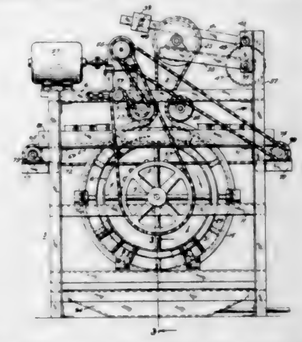
DRAINER WITH ROTATABLE DRUM AND ENCIRCLING BELT FOR CONFINING CANS THEREBETWEEN

Raymond B. Bentley, Pacific Grove, Calif.

Application April 10, 1945, Serial No. 587,643

6 Claims. (Cl. 226—22)

1. A drainer comprising a frame; a drainer wheel within said frame and including a wheel or drum rotatably supported by said frame, a channel supported by said frame concentric with and surrounding said wheel, and spaced therefrom by a distance slightly less than the height of a can to be drained, said channel being split at the top and having a peripheral slot slightly greater in width than the diameter of a can, and extending the full periphery of said channel; a drainer belt encircling said channel in contact therewith in the absence of cans in said wheel; means for driving said wheel at a predetermined angular velocity; and means for moving said belt around said channel at the same angular velocity.



2,532,595

FUEL TANK BOWL CONNECTION

Albert H. Berger, Rocky River, Ohio, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application December 22, 1945, Serial No. 636,625

3 Claims. (Cl. 285—211)

1. In an oil stove of the character described wherein said stove is provided with a fuel supply bowl having an exteriorly flat bottom and a fuel supply pipe in fuel flow communication therewith through the bottom, novel connection means for uniting said pipe and said bowl bottom comprising a drawn metal connector of generally thimble form having a hollow body portion sleeved over and permanently secured to the pipe end, the side wall of the body portion having an external flat surface fitting and seated against the flat bottom of the bowl, said connector being spot welded to the bowl at one point, and brazed thereto over the entire area of the said flat surface, said connector and said bowl bottom being provided with aligned openings to permit liquid communication between said pipe and said bowl.

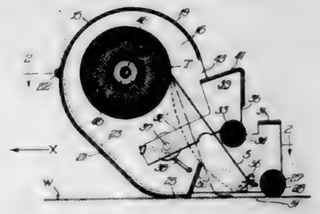
2,532,596

TAPE DISPENSER AND APPLIER

Samuel H. Bobrov, Chicago, Ill.

Application January 20, 1948, Serial No. 3,315

5 Claims. (Cl. 216—33)



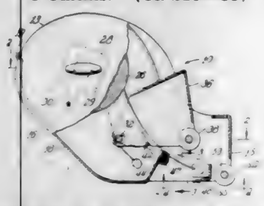
1. A machine for holding a roll of pressure sensitive tape and applying desired lengths of

such tape to a work surface, said machine comprising a housing having a mouth, means for supporting said roll in said housing so that tape may be paid out, said housing having a portion defining a forward end of said mouth, said portion and work surface defining a plane, means carried by said housing adjacent the rear end of the mouth for pressing tape against the work surface, a cutter within the housing extending transversely of said housing near the rear portion of the mouth, said cutter having teeth some of which are at least $\frac{1}{16}$ inch long with the teeth pointing generally toward the tape supply, spring means cooperating with the teeth so that the cut end of the tape is retained in position against the teeth in preparation for a new cutting and tape dispensing cycle, a tape applier having at least an edge for cooperation with the non-adhesive side of tape, means for mounting said applier so that it normally rests well within the housing remote from the work surface but is freely movable to an active position toward the work surface so that the applying edge reaches the plane of the housing mouth at a point between the forward end of the mouth and the projection of the teeth upon the mouth, said tape applier being adapted to deflect the tape out of a tension span extending between the tape roll and teeth and into contact with the work surface, said tape applier when returned to a normal position at the end of a tape applying operation allowing the tape to assume a tension span and thus force the tape against the cutter teeth during forward movement of the machine to result in severance of the tape.

2,532,597

TAPE DISPENSER AND APPLIER

Samuel H. Bobrov and Sol A. Bobrov, Chicago, Ill.
Application July 14, 1949, Serial No. 104,784
5 Claims. (Cl. 216—33)



1. A machine for holding a roll of pressure sensitive adhesive tape and applying desired lengths of such tape to an object, said machine comprising a housing having a mouth at the housing bottom, means in said housing for supporting said roll so that tape may be paid out, said housing having a bottom portion defining the rear of said mouth, said bottom portion and applied tape defining a plane, a cutter supported across the mouth opening near the forward portion of the mouth, said cutter having its edge facing rearwardly of the housing above said plane, a tape applier having at least an edge for cooperation with the non-adhesive side of tape, means for mounting said applier so that it normally rests above said plane but is freely movable generally vertically so that the applying edge at least reaches said plane to the rear of said cutting edge, at least one holding tape guide disposed between the tape roll and applier within the housing and well above said plane, said applier and guide normally contacting the non-adhesive and adhesive sides respectively of the tape during taping with the applier being clear of the tape during tape severing and stand-by conditions.

2,532,598

GUARD DEVICE FOR SYRINGES FOR USE WITH HEAT-FLUENT MATERIALS

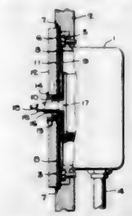
Henry F. Boeger, Beverly Hills, Calif., assignor to Surgident, Ltd., West Los Angeles, Calif., a corporation of California
Application December 8, 1947, Serial No. 790,351
5 Claims. (Cl. 128—234)

1. A guard device for a syringe for use with heat-fluent materials, said syringe having an elongated hollow body for holding said materials, a plunger movable in said body, handle means on said plunger, and a hollow needle forming an outlet from said body inclined at an angle to the longitudinal axis thereof, comprising: a casing for said body having wall means substantially enclosing said body and having an opening at one end for entry of said body thereinto, and having an internal diameter greater than the external diameter of said body; friction means on the interior of said casing engageable with said body so as to resist, while still permitting, longitudinal movement of said body relative to said casing and so arranged as to hold said body annularly spaced from said wall means; and a finger-grip on the exterior of said casing adjacent said opening adapted to cooperate with said handle to form a hand grip; said casing having a slot extending between positions adjacent said finger-grip and adjacent the other end of said casing through which said needle may extend.

2,532,599

CLOCK MOUNTING MEANS

Edgar Bourquin, Los Angeles, Calif.
Application September 15, 1947, Serial No. 774,089
12 Claims. (Cl. 58—53)

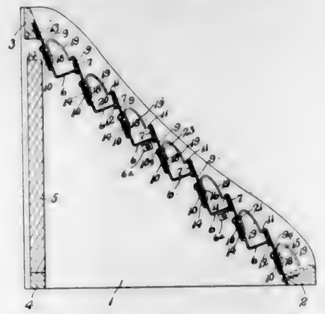


1. Improved means for removably mounting a dial face and a crystal with respect to a clock movement, including concentrically, coaxially arranged driven hour and minute hand sleeves, centrally extending through aligned ports in said dial face and crystal and an open forward end of a housing therefor in which the clock movement is held, comprising: a hollow, threaded bushing concentrically, coaxially arranged around said driven sleeves extending forwardly through said ports in said dial face and crystal; a hollow, threaded nut concentrically arranged around said driven sleeves on the opposite side of the dial face and crystal from the threaded bushing and adapted to threadedly engage said bushing, said nut being provided with a circular flange adapted to abut the surface of the crystal; a transverse supporting member connected to said bushing; and a rim connected to the open end of the housing positioned around said dial face and provided with two oppositely disposed, inwardly directed, retaining ears adapted to engage opposite ends of the supporting member for releasably, effectively locking the crystal and dial face with respect to the housing.

2,532,600

DISPLAY RACK

Robert J. Broersma, Grand Haven, Mich., assignor of one-half to Henry T. Parker, Grand Haven, Mich., and one-half to Norwood E. Hubbell, Zeeland, Mich.
Application January 19, 1948, Serial No. 3,080
7 Claims. (Cl. 211—55)



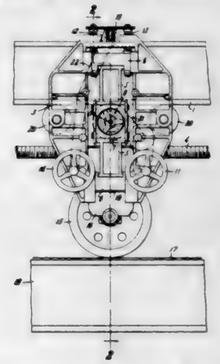
7. A rack comprising, a supporting structure including a lower front horizontal bar, an upper rear horizontal bar, a lower rear horizontal bar, and spaced vertical ends of generally triangular outline connected to said horizontal bars at the ends thereof, and a holding structure for articles of merchandise, said structure being located between the lower front and upper rear horizontal bars comprising, a plurality of units each having a back, bottom and front, means at the upper portion of the back of each unit for longitudinal slidable connection with the front of the next upper unit, means on the upper rear bar for slidable connection with said mentioned means on the back of the uppermost unit, a plate connected to the front lower bar, said plate being identical with the back of each unit for slidable connection with the front of the lowermost unit, a channel at the front side of the back of each unit, a plurality of card holders slidably located in said channels, and an inverted U-shaped divider having a rear and front leg, said rear leg having permanent connection to its associated card holder between the ends thereof.

2,532,601

MACHINE FOR SMOOTHING OR IRONING LEATHER, PARTICULARLY SHOE SOLE LEATHER

Adolf Buček, Otrokovice, Czechoslovakia, assignor to Bata, národní podnik, Zlin, Czechoslovakia
Application August 17, 1948, Serial No. 44,768
In Czechoslovakia August 27, 1947
3 Claims. (Cl. 69—46)

1. In a bridge rolling machine including a carriage, a pressure exerting device mounted on the carriage comprising spring biased toggle levers and vertically movable thrust plates actuated by said toggle levers, and a vertically movable working roll having bearings engaged by said thrust plates, the arrangement of the bearings of the working roll so as to be completely separate from the pressure exerting device of the machine and to be freely movable up and down along a path and in a space confined by the walls of the carriage frame and by the thrust plates of the toggle

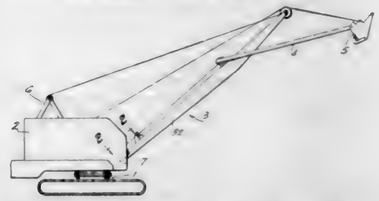


levers of the pressure exerting device, the latter being mounted as an adjustable unit in the carriage frame in such a way that the clearances between the bearings of the working roll and the thrust plates of the toggle levers of the pressure exerting device are variable as required, within the limits of a free movement, not loaded by the said pressure exerting device, of the working roll.

2,532,602

CRANE BOOM MOUNTING

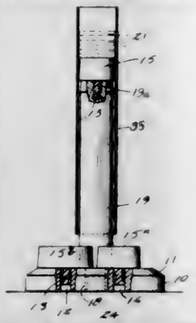
Will S. Burdick, Wauwatosa, and Karl Schneider, Greendale Village, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application February 9, 1948, Serial No. 7,207
5 Claims. (Cl. 212—144)



1. In a crane having a frame and a boom, a mounting for said boom comprising a transversely extending base secured to and forming a part of the inner end of said boom, inwardly facing medially disposed main thrust transmitting means secured to said transversely extending base, main thrust receiving means secured to said frame adapted to be engaged by and to hold said main thrust transmitting means, a supplementary thrust transmitting abutment member secured to said boom base on one side thereof at a point laterally spaced from said main thrust transmitting means, a supplementary thrust receiving member secured to said frame in position to receive thrust transmitted by said supplementary thrust transmitting abutment upon transverse loading of said boom, tension resisting means anchored at one end to said boom in substantial alignment with said supplementary thrust transmitting abutment member and at its opposite end to said

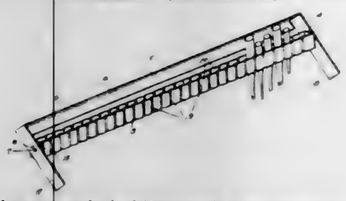
frame near said supplementary thrust receiving member, a second supplementary thrust transmitting abutment member secured to the opposite side of said boom base, a second supplementary thrust receiving member secured to said frame to receive thrust transmitted by said second supplementary thrust transmitting abutment member upon transverse loading of said boom, and a second tension resisting means anchored at one end to said boom in substantial alignment with said second supplementary thrust transmitting abutment member and at its opposite end to said frame near said second supplementary thrust receiving member.

2,532,603
DEVICE FOR STACKING AND WRAPPING COINS
Earl W. Carper, Parkersburg, W. Va.
Application February 18, 1946, Serial No. 648,224
3 Claims. (Cl. 226—14)



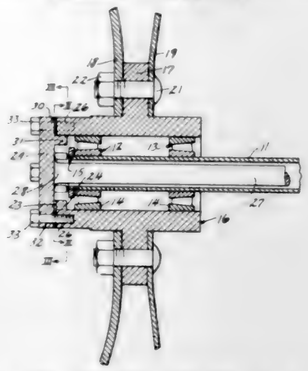
1. A device as described consisting of a rigid base formed with a central upstanding post, any of a series of paper tubes of graduated diameters and of the same length adapted interchangeably to be fitted around said post upon said base, said post being substantially the same length as said paper tubes, a frusto conical member resting upon the upper end of said post effective to peripherally engage said tube when enclosed thereby and match its particular diameter so that coins of the same diameter as said tube may be stacked upon said member in said tube and said tube may be moved upwardly about said member and said coins.

2,532,604
AMPOULE HOLDING RACK
Theodore J. Carski, Baltimore, Md., assignor to Baltimore Biological Laboratory, Baltimore, Md., a corporation of Maryland
Application June 18, 1947, Serial No. 755,329
3 Claims. (Cl. 211—74)



1. An ampoule holding rack comprising a support member and a channel member, said support member consisting of a base portion having a side portion adjacent and perpendicular to and longitudinally coextensive with said base portion, an upright portion adjacent each end of said base portion, said channel member having each of its ends associated with one of said upright portions by means of a pivot pin whereby said channel member is rotatable about an axis parallel to its central longitudinal axis, at least one upright portion being provided with locking means adapted by cooperation with an adjacent end portion of said channel member to hinder rotation of said channel member, the middle portion of said channel member being provided along its central longitudinal axis with a plurality of openings and the side portions of said channel member being provided with corrugations providing a plurality of parallel ridges extending perpendicular to the long axis of the channel adapted to hold ampoules in alignment.

2,532,605
AUTOMOBILE AXLE
Jack Castleberry, Jasper, Ala.
Application March 10, 1947, Serial No. 733,537
6 Claims. (Cl. 301—1)

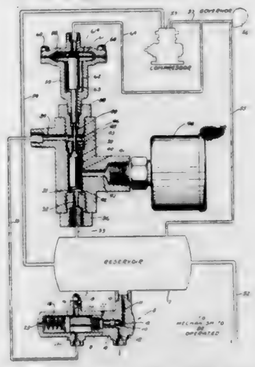


1. In a hub and axle assembly for a driven wheel, teeth projecting inwardly of the bore of the hub, a flange on the outer end of the axle disposed to cover the outer end of the hub, projections on the inner face of the flange disposed to interlock with the teeth in the hub, a gasket interposed between the end of the hub and the flange, and studs passing through the flange and into the hub to hold the teeth in interlocked relation.

2,532,606
PEBBLE HEATER
J. Frank Church, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 5, 1948, Serial No. 591
8 Claims. (Cl. 196—55)

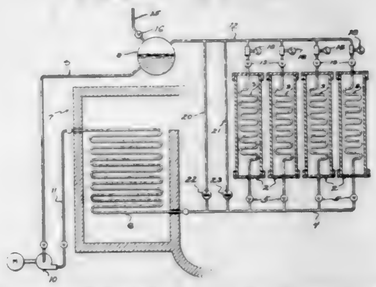
7. In a process for effecting vapor phase conversion of hydrocarbons compr'sing continuously contacting a contiguous downwardly flowing mass of hot pebbles in an enclosed zone of cylindrical horizontal cross-section with a stream of hydrocarbon vapor under conversion conditions of time, pressure, and temperature so as to effect conversion thereof, wherein said pebbles are introduced to the upper portion of said zone at a point contiguous the periphery thereof and are withdrawn from said zone axially thereto, thereby effecting more rapid pebble flow down the inlet side of said zone with concomitant non-uniform heating and conversion of said hydrocarbon, the method of effecting improved pebble flow and hydrocarbon conversion comprising continuously withdrawing pebbles from said zone at a point eccentric thereto in the range of 1/100 to 1/8 of the inside diameter of said vessel and diametrically opposite said point of introduction.

2,532,607
VALVE USED AS A CONTROL
Russell C. Churchman, Des Moines, Iowa; Nellie Churchman executrix of said Russell C. Churchman, deceased
Application December 29, 1947, Serial No. 794,387
2 Claims. (Cl. 230—1)



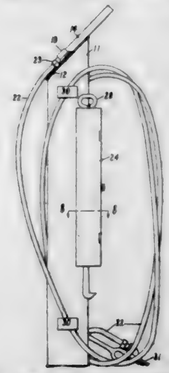
1. In an air compressor wherein the compressor continuously operates but compresses air only when the air in a storage tank connected with the compressor reaches a predetermined low, a governor connected between the air storage tank and the compressor, said governor opening to allow air under pressure to flow to the compressor when the air in the storage tank reaches the predetermined low pressure, said air under pressure acting on the compressor placing the compressor into operation to compress air and deliver the compressed air to the air storage tank, said governor closing off flow of air under pressure to the compressor when the air under pressure in the storage tank reaches the predetermined high pressure, said air storage tank having a valve means opened by air under pressure connected therewith to drain accumulated moisture from the air storage tank each time the compressor is placed into operation, the improvement comprising a second valve structure having a valve housing with an inlet into the housing connected to the air storage tank and an outlet therefrom connected into the first mentioned valve, a chamber within the valve housing connecting the inlet and outlet, a valve stem within the chamber alternately closing the inlet and outlet, an air reservoir associated with the chamber, said valve stem being smaller than the chamber to form a passageway between the valve stem and chamber to the outlet from the air reservoir when the inlet is closed, and means associated with the second valve actuated by air under pressure from the air storage tank when the governor is open to contact the valve stem of the second valve to move the valve stem across the inlet and open the outlet.

2,532,608
METHOD OF HEATING
David Dalin, Stenkullen, Ronninge, Sweden
Application January 7, 1948, Serial No. 868
In Sweden May 7, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 7, 1966
5 Claims. (Cl. 237—81)



3. The hereindescribed method of heating materials in a heat absorbing device, which comprises: generating a steam-water emulsion in the tubes of a boiler system at a pressure high enough to bring the temperature of the emulsion to a value at least equal to the temperature to which the materials are to be heated; effecting forced circulation of such steam-water emulsion through the heat absorbing device under said pressure and at a rate permitting only partial condensation of the steam content of the emulsion so as to effect heat transfer between said materials and the emulsion without substantial drop in temperature of the emulsion; and returning the steam-water emulsion leaving the heat absorbing device to the steam dome of the boiler system for use of the steam fraction of said emulsion as desired.

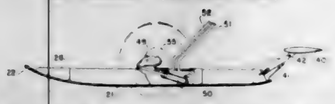
2,532,609
COOLING HOTBOXES
George H. Danis, Oakland, Calif.
Application July 9, 1946, Serial No. 682,332
1 Claim. (Cl. 299—89)



In a train of railway cars provided with a compressed air line running therethrough and hav-

ing flexible connections with interfitting coupling members between adjacent cars, a portable water container having a spray nozzle, and an air hose for conducting air under pressure from said train air line to said water container to discharge the water through said nozzle; the combination therewith of a connecting member at the end of said hose remote from said container, said connecting member having two opposite faces formed to couple respectively with the coupling members of the train air line, said connecting member having an air passage through it from face to face and forming when coupled to said coupling members an operative part of said train air line, and said connecting member having a branch passage leading from the first mentioned air passage out through one edge, said hose being connected with said branch passage to draw air therethrough for operation of said spray nozzle.

2,532,610
AIRCRAFT SKI
Francis J. Ditter, Minneapolis, Minn.
Application July 9, 1948, Serial No. 37,895
13 Claims. (Cl. 244—108)



1. An aircraft ski having a pedestal intermediate the ends thereof, a lever arm pivoted on said pedestal and extending upwardly therefrom, means on the upper end of said lever arm for pivotally mounting said lever on the wheel shaft of an airplane said lever arm also extending downwardly from said pivotal connection on said pedestal and means on the ski for moving said lever arm about said pivot.

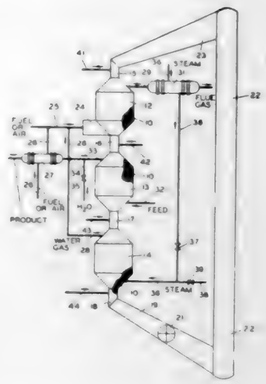
2,532,611
AIRCRAFT SKI
Francis J. Ditter, Minneapolis, Minn.
Application June 18, 1949, Serial No. 99,899
7 Claims. (Cl. 244—108)

3. An aircraft ski comprising a pair of ski sections extending generally parallel, a base shoe of generally U-shaped form, the arms of the U forming the bottom surface of the ski sections, the base of the U extending between the ski sections at the forward end thereof, a lever arm pivotally supported on one of said ski sections, a lever arm pivotally supported on the other of said sections, means on one end of each of said lever arms for attachment to the landing wheel shaft of an airplane, driving means mounted on the ski, and means connecting said driving means and the other end of each said lever arm for pivotal movement of said lever arms.

2,532,612
PREPARATION OF UNSATURATED THIO-ETHERS
Thomas F. Doumani, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application August 29, 1945, Serial No. 613,417
11 Claims. (Cl. 260—609)

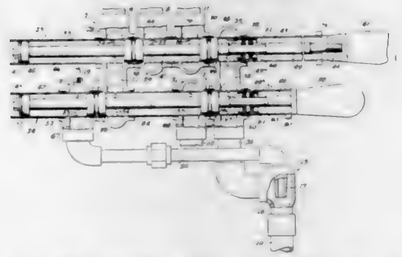
1. A process for the preparation of an unsaturated thioether which comprises contacting a dihydroxy-substituted thioether having the formula $R_1—S—R_2$ in which R_1 and R_2 are hydroxy-substituted hydrocarbon groups having at least two carbon atoms with a solid alkali metal hydroxide maintained at a temperature above 150° C., for a time sufficient to split out at least one molecule of water from the molecule and form an unsaturated thioether, and continuously removing said water as formed.

2,532,613
HYDROCARBON CONVERSION IN PEBBLE HEATERS
Harris A. Dutcher, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 8, 1946, Serial No. 681,967
12 Claims. (Cl. 196—55)



12. In a process of converting hydrocarbons to more desirable hydrocarbons at elevated temperatures to desirable products wherein a fluent contiguous mass of refractory pebbles is circulated by gravity thru a series of zones comprising a pebble heating zone and a conversion zone communicating thru a relatively narrow elongated zone and permitting relatively free flow of pebbles therethru, said zones being substantially filled with said mass of pebbles; wherein that portion of said mass of pebbles flowing thru said pebble heating zone is continuously contacted with a stream of hot combustion gas to heat said pebbles to a temperature substantially above a predetermined conversion temperature in the range of 1500 to 3000° F. and that portion of said mass of pebbles flowing thru said conversion zone is continuously contacted with a stream of hydrocarbons to heat and convert the same to desirable hydrocarbon products; and wherein carbonaceous matter is deposited on said pebbles in said conversion zone; the improvement which comprises flowing said mass of pebbles from said conversion zone thru a pebble cooling zone separated from said conversion zone and there continuously contacting said mass of pebbles at an initial pebble temperature in the range of 1300 to 2600° F. with a stream of steam at a temperature and flow rate regulated to insure substantially complete removal of said carbonaceous matter from said pebbles by the water gas reaction and substantially cooling of said pebbles to a temperature in the range of 500 to 900° F.

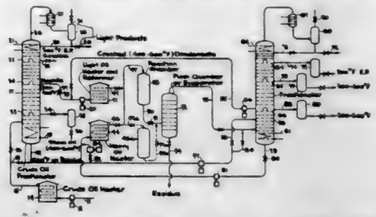
2,532,614
VALVE FOR WATER SOFTENING APPARATUS
John Evans, Salt Lake City, Utah, assignor to Mountain Valve Company, Inc., Salt Lake City, Utah, a corporation of Utah
Application April 25, 1946, Serial No. 664,820
2 Claims. (Cl. 251—76)



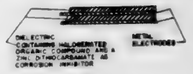
1. A flow control valve comprising an elongated tube open at both ends and having four equally spaced sets of radial ports arranged along the tube, a fitting around the tube and having a chamber in register with each set of ports, a piston within the tube between each open end thereof and the respective end set of ports to seal said open ends to flow from said latter sets of ports, an axial member rigidly connecting said pistons, a handle on said axial member beyond one end of the tube for moving said pistons endwise between the ends of the tube and the respective end sets of ports, a third piston in the tube and fixed to the axial member for movement between a position between one end set of ports and the adjacent set of ports and a position between the latter set of ports and the next adjacent set whereby selective communication between the latter end set of ports and the adjacent set and between their chambers is effected, a fourth piston in the tube and fixed to the axial member for moving between a position between the other end set of ports and the adjacent set of ports and a position between said other end set of ports and the adjacent end of the tube whereby simultaneous selective communication between said latter adjacent sets of ports and between their chambers is effected, a projection carried by the tube at the handle end thereof, spaced abutments carried by the handle and associated with the projection to limit the above movement of the four pistons, one of said abutments being rotationally movable out of engagement with said projection, and a third abutment in the path of further endwise movement of the handle and the axial member whereby upon said further movement said third piston is moved to the initial position of the fourth piston and common communication among one end set of ports and the two next adjacent sets of ports and their chambers is effected.

2,532,615
THERMAL CONVERSION OF HYDROCARBONS
Robert Bartlett Ewell, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 3, 1948, Serial No. 451
3 Claims. (Cl. 196—48)

1. A thermal process of conversion of a low octane number naphtha cut to give a higher octane number product simultaneously with deep cracking of a heavy oil cut, which process comprises: heating a low octane number straight run naphtha cut having an end boiling point of about 400° F. to a cracking and reforming temperature therefor of from about 1050° to 1100° F. at a pressure of about 330 p. s. i. a. while separately and simultaneously heating a petroleum residual heavy oil cut having an initial boiling point of at least about 600° F. to a lower cracking temperature therefor of about 905° F. at a pressure of about 330 p. si .i a. for a time insufficient to cause appreciable coking thereof; combining the thus heated naphtha products and the thus heated heavy oil in the ratio of from about 1:1 to about 2:1 of heavy oil to light oil and passing the combined products without further addition of heat thereto from an external source through a reaction zone of enlarged cross-section and thereby effecting deeper cracking and conversion of the heavy oil by raising the temperature thereof by excess of sensible heat in the heated naphtha products; separating a vaporous product having a wide boiling range from the reaction zone; fractionating the separated vaporous product into a plurality of fractions comprising a high octane number gasoline naphtha fraction, a residual heavy oil fraction having an initial boiling point of at least about 600° F. and a light cracked oil fraction of intermediate boiling range of from about 450° to 550° F. and substantially free from straight run petroleum hydrocarbons boiling within the same boiling range; recycling at least a substantial portion of said light cracked oil fraction to the first-mentioned reforming zone for further treatment therein under conditions the same as those in the first above-described cracking and reforming temperature operation; and recycling at least a substantial portion of said heavy oil fraction to the first-mentioned cracking zone for further treatment therein under conditions similar to those used in the previous operation.



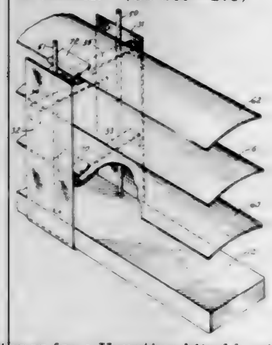
2,532,616
COMPOSITIONS OF MATTER COMPRISING HALOGENATED ORGANIC COMPOUNDS
Edgar E. Hardy, Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application October 9, 1948, Serial No. 53,695
19 Claims. (Cl. 252—63.5)



1. A composition of matter consisting essentially of a halogenated aromatic compound and as a scavenger therefor a compound selected from the group consisting of zinc dithiocarbamate and the alkyl, cyclic and aryl substituted derivatives thereof, said scavenger being employed in an amount sufficient to render the decomposition products of said halogenated aromatic compound substantially innocuous.

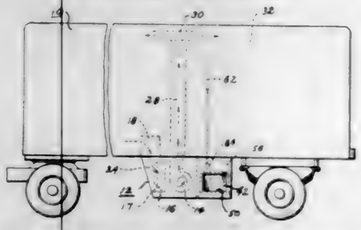
9. A dielectric composition consisting essentially of chlorinated biphenyl and as a scavenger therefor about 0.05% to about 1% by weight of zinc N,N-dimethyl dithiocarbamate, said chlorinated biphenyl containing from 42% to 60% by weight of chlorine.

2,532,617
VENETIAN BLIND
George H. Hauser, Berkeley, and Fred R. Wagner, Oakland, Calif., assignors to Brooks Walker, Piedmont, Calif.
Application December 28, 1945, Serial No. 637,585
4 Claims. (Cl. 160—178)



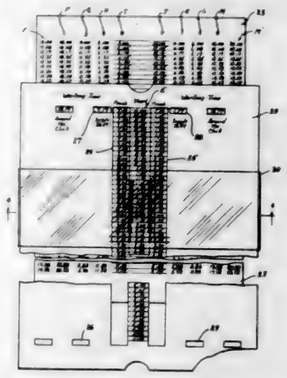
1. A fastener for a Venetian blind having cross-straps and slats comprising a compound clip having one clip adapted to grip a cross-strap and another clip adapted to grip a slat at the upper and lower faces thereof, and being slidable over the edge of said slat.

2,532,618
REFRIGERATED VEHICLE
Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 13, 1944, Serial No. 563,148
9 Claims. (Cl. 62—4)



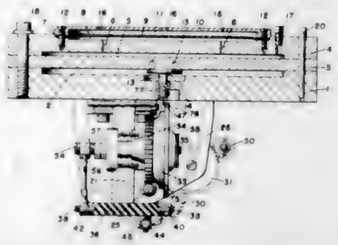
1. In a system for supplying refrigerated air to a space, an evaporator for cooling said air, a condenser, a compressor for withdrawing refrigerant vapor from said evaporator and for discharging compressed refrigerant into said condenser, compressor operating means, clutch means between said compressor and said compressor operating means, selective means for selectively directing either recirculated air or outside air in thermal exchange with said evaporator, and clutch control means for said clutch, and interlock means between said selective means and said clutch control means for insuring that said clutch is in the declutched position when outside air is directed in thermal exchange with said evaporator.

2,532,619
CALCULATING DEVICE
Edgar W. Heerich, Westfield, N. J.
Application June 28, 1948, Serial No. 35,568
4 Claims. (Cl. 235—89)



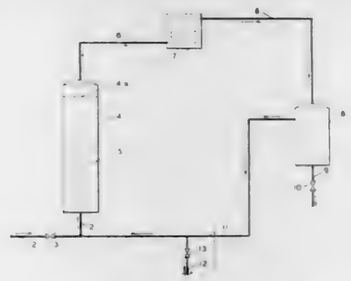
1. A calculating device of the slide rule type having a fixed part, a second part movable with respect to the fixed part, a first scale on the fixed part representing six hours, a second scale on the movable part representing six hours of a twelve hour period, a third scale on the movable part representing the remaining six hours of said twelve hour period, means for aligning any given point on said first scale with any given point on said second scale or with any given point on said third scale, a fourth scale on the movable part, an index on the fixed part, said index indicating a point on said fourth scale that represents the elapsed time between any point on said first scale and an aligned point on said second scale, a fifth scale on the movable part, and a second index on the fixed part, said second index indicating a point on said fifth scale that represents the elapsed time between any point on said first scale and an aligned point on said third scale.

2,532,620
LINEAR TIME AXIS PRESSURE RECORDER
Paul M. Higgs, Seattle, Wash., assignor to the United States of America as represented by the Secretary of the Navy
Application September 29, 1949, Serial No. 118,648
5 Claims. (Cl. 73—391)



1. A pressure recorder comprising a diafragm, a stylus carried by said diafragm, means securing said diafragm at its peripheral portions, means for delaying the application of the pressure to the diafragm, means for damping the motion of the diafragm in response to pressure, a record-receiving blank, and means for rotating said blank while maintaining it in contact with the stylus, whereby a record of the pressure is made on said blank.

2,532,621
PRETREATMENT OF HYDROCARBON SYNTHESIS CATALYSTS
John Paul Hogan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 22, 1947, Serial No. 743,171
6 Claims. (Cl. 260—449.6)

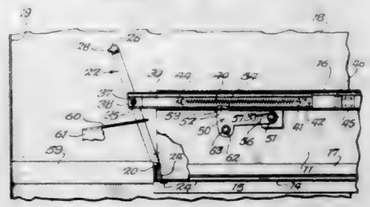


1. In a process for the conversion of carbon monoxide-hydrogen mixtures to form normally liquid hydrocarbons, the improvement which comprises modifying the high initial activity of fresh catalysts for the reaction which tend to produce high yields of normally gaseous products during the initial stages of the reaction in the following manner; (*a*) charging a synthesis gas containing essentially hydrogen and carbon monoxide in a volume ratio within the range of 1.5:1 to 2:1 to a reactor containing fresh synthesis catalyst at atmospheric temperature and at a desired operating pressure for the reaction; (*b*) gradually increasing the reactor temperature until the synthesis reaction begins, (*c*) recycling all of the reactor effluent gas to the reactor while introducing only sufficient fresh synthesis gas to maintain the pressure constant until the carbon monoxide content of said effluent gas is decreased to 2–3 volume per cent; (*d*) thereafter gradually increasing the reactor temperature to the desired synthesis temperature while charging only sufficient synthesis gas to the reactor to maintain the pressure constant and simultaneously withdrawing sufficient effluent gas at a gradually increasing rate until the carbon monoxide content of the effluent gas increases from 2–3 to 6–12 volume per cent.

2,532,622
ORGANO SILICON DERIVATIVES OF CELLULOSE
Melvin J. Hunter, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application February 23, 1949, Serial No. 77,991
5 Claims. (Cl. 260—215)

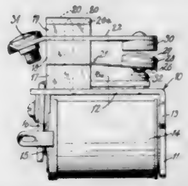
1. A cellulose derivative selected from the group consisting of cellulose ethers and cellulose esters having from 1 to 2.75 ether and ester groups per glucose unit and in which derivative there are from 0.25 to 2 triorganosilyl radicals per glucose unit, said radicals being ($R_2R'Si$—) where R is an aryl radical and R′ is selected from the group consisting of aryl and alkyl radicals, the silicon atoms of said organosilyl radicals being attached through an oxygen atom to a carbon atom of a glucose unit, which carbon atom would normally carry a hydroxyl group.

2,532,623
FILING CABINET DRAWER
James R. Jones, Lakewood, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.
Application July 16, 1948, Serial No. 39,129
9 Claims. (Cl. 312—273)



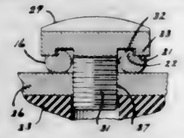
8. In a filing cabinet drawer including a compression plate having its lower portion pivotally mounted on said drawer, a pair of slide bars slidably mounted one on each side of the drawer, one of said slide bars having a slot therein, connections between said slide bars and said compression plate, springs for urging said compression plate to swing forwardly with reference to said drawer, a latch member pivoted on said drawer and having a tooth formed to enter said slot of said slide bar for holding said slide bar against forward movement when said compression plate has been swung rearwardly to a predetermined extent, a roller mounted on said latch, and a release bar mounted on said cabinet in position to engage said roller before said drawer moves to its inner position within said cabinet, said release bar being inclined in a direction to swing said latch on its pivot out of engagement with said slide bar.

2,532,624
ELECTRIC RELAY
August C. Kircher, Queens Village, N. Y., assignor, by mesne assignments, to Allied Control Company, Inc., a corporation of New York
Application July 8, 1946, Serial No. 681,821
8 Claims. (Cl. 200—87)



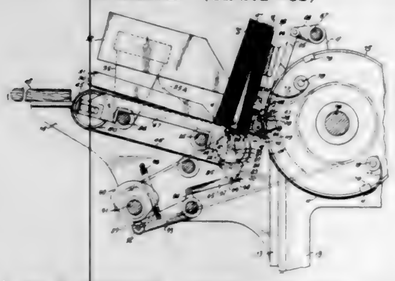
1. A relay comprising a frame, an armature pivoted on said frame and having an extension, a block of insulating material fixed with respect to said frame, a resilient sheet metal plate supported by said insulating block in overlying relation to said armature extension, said plate having a neck and arms forming a Y-shaped section and a tongue-like extension from the apex of said arms with a free end projecting between said arms, said extensions being juxtaposed for mutual engagement whereby said armature extension may engage said tongue-like extension to bend said plate.

2,532,625
BINDING SCREW CONNECTION
Roy F. Kieser, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application April 22, 1949, Serial No. 89,095
3 Claims. (Cl. 173—259)



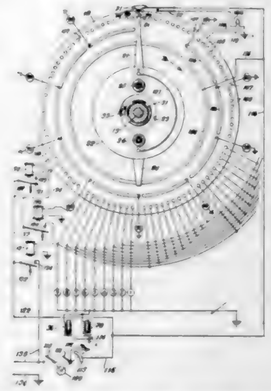
1. An electrical connection including a terminal and a substantially round insulated solid wire having a part thereof stripped of its insulation and contacting said terminal, means for attaching said stripped part of the wire directly to said terminal, said means comprising a screw having a head and a shank part projecting therefrom and threaded into said terminal, the underside of said screw head about said shank part being provided with a flat bottomed counterbore and a ring around the counterbore, said stripped part of the round wire being deformed at the point of attachment thereof to said terminal to provide an arcuate shaped recessed surface and a raised portion substantially coextensive therewith adjacent the shank part of said screw, and said ring on said screw being clamped against said recessed surface of said wire with said raised portion thereof fitting in the counterbore of said screw head for locking the wire against slippage from beneath the screw.

2,532,626
SIGNATURE HOPPER MECHANISM
Paul E. Kleineberg, Easton, Pa., assignor to T. W. & C. B. Sheridan Company, New York, N. Y., a corporation of New York
Application July 31, 1946, Serial No. 687,498
13 Claims. (Cl. 271—31)



1. In a signature hopper mechanism of the kind described having a traveling web on which the signatures are stacked edgewise and fed frontward for front extraction, with rear loading, a variable feed drive for the feed web, said drive comprising a feed wheel connected to drive the web and a variable-stroke oscillating carrier carrying pawl means cooperating with said wheel, means for controlling such drive comprising a shiftable feeler bearing resiliently rearward on the stack front and thereby taking a variable position responsive to the degree of looseness of the signatures, and connections from the feeler to the carrier operating to cause increase of carrier return and advance stroke with increasing looseness of stack due to depletion of signatures, and vice versa, thereby to cause the stack feed to keep pace substantially with the rate of extraction of signatures; the connections from the feeler to carrier comprising extensions in the form of separate pieces in mutual thrusting relation, the feeler piece having a strong rearwardly-pressing spring and the carrier piece a weak frontwardly-pressing whereby the former controls the carrier return stroke.

2,532,627
MULTIPLE SWITCH
Jerry C. Koci, Riverside, Ill., assignor, by mesne assignments, to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application October 2, 1946, Serial No. 700,756
2 Claims. (Cl. 200—5)

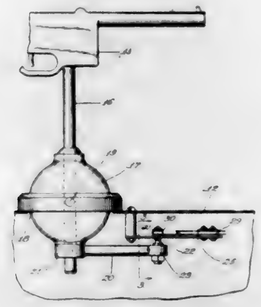


1. A switching system for counters and the like comprising a stationary disc having a group of contacts mounted along the arc of a circle and being spaced uniformly from each other except between the end contacts, said end contacts being spaced a distance substantially greater than the distance between other adjacent contacts, a rotatable wiper cooperating with said contacts, count-indicating circuits having a common return through said wiper and having individual connections to said contacts so that when a wiper touches a contact a circuit corresponding to a certain count is closed, a switch disposed in proximity to said disc, said switch having relatively movable contacts, circuit means controlled by said switch, said circuit means including count-indicating means, an arm for operating said switch, and means rotatable with said wiper for operating said arm, said means being so oriented with respect to the wiper as to operate said arm and change the condition of said last named switch when the wiper of said group of contacts reaches the space between the end contacts whereby said group of contacts may be made to cover a greater counting range by operation of said last named switch.

2,532,628
GAME APPARATUS
Jerry C. Koci, Riverside, Ill., assignor to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application December 9, 1948, Serial No. 64,390
2 Claims. (Cl. 200—52)

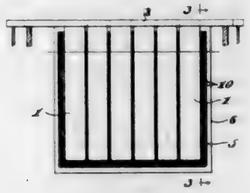
1. An electric switch structure for a target aiming type of game, said structure including an arm having an actuating finger with a rounded tip, a flat base over which said tipped finger is

adapted to play, said base having a pair of switch contact leaves carried thereon with the planes of said leaves being generally parallel to the base, a pin-pointed feeler carried by one contact member and extending generally perpendicu-



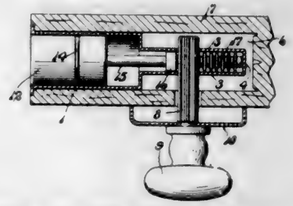
lar to the base, said feeler being adapted to change the electrical condition of said switch upon slight movement longitudinally of said feeler, said tipped finger being adapted to move said feeler and operate the switch when said arm and finger are moved to a predetermined position.

2,532,629
METHOD OF ELECTRODEPOSITING IRON
Erich H. Konrad and William E. C. Eustis, South Strafford, Vt., assignors to Sulphide Ore Process Company, Inc., New York, N. Y., a corporation of Delaware
Application November 7, 1947, Serial No. 784,686
2 Claims. (Cl. 204—48)



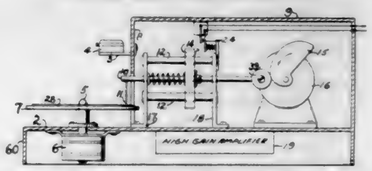
1. A method for the electrodeposition of iron, comprising as steps the passing of an electric current through an aqueous electrolyte containing ferrous chloride, between a cathode surface and a graphite anode bar, in spaced, opposed position to each other in the aqueous solution, and separated by a diaphragm which is pervious to said aqueous solution, the anode bar, on its surface opposed to the cathode surface, being in contact with a layer of granules of graphite having individual cross-sectional dimensions upward from one-eighth inch, and the granules being in electrical contact with each other and presenting a surface area to the aqueous solution of ferrous chloride which is greater than the area of the graphite anode bar, and electrodepositing iron on the cathode.

2,532,630
NIGHT LATCH
Albert F. Lickteig, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application January 5, 1948, Serial No. 556
4 Claims. (Cl. 292—142)



1. A latch comprising a housing having a cylindrical outer portion and a flattened inner portion, a latch bolt slidably mounted in said cylindrical portion, a stem rotatably connected to said bolt, a rack formed integrally with said stem and slidably located in the flattened portion of the housing, said rack being square in cross section and of approximately the same thickness as the width of the flattened portion of the casing and having rack teeth on more than one of its sides, and a spindle extending transversely through said flattened part of the housing and having gear teeth meshing with the teeth on one side of the rack.

2,532,631
TIMEPIECE CALIBRATION RECORDING APPARATUS
Walter J. Loria and Jerome Suhre, New York, N. Y.
Application September 13, 1945, Serial No. 615,958
9 Claims. (Cl. 73—6)



1. Timepiece calibration recording apparatus comprising: an electrical pickup effective to derive periodic electrical signals precisely related in frequency to the timing of a timepiece being calibrated; a standard source of periodic reference electrical signals; a moving carriage adapted to receive a calibration chart movable therewith; a recording stylus movable across a chart on said carriage to scan the same; and means responsive jointly to said derived signals and said reference signals for causing said stylus to make two groups of periodic traces on a chart on said carriage, each positioned in dependence upon the frequency of one of said signals, whereby the relative patterns of said traces are representative of the calibration of said timepiece.

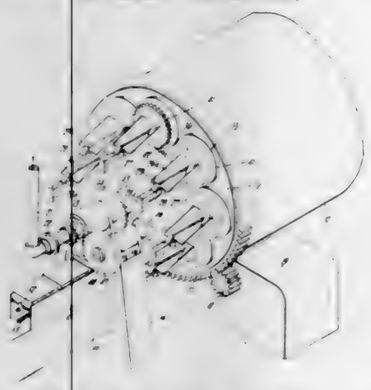
2,532,632
TUBING AND TUBING JOINT
Melvin D. MacArthur, Los Angeles, Calif., assignor to Hydril Corporation, Los Angeles, Calif., a corporation of California
Application October 4, 1948, Serial No. 52,675
3 Claims. (Cl. 285—146)

1. A tubing joint embodying mating, tubular pin and box members, an annular internal shoul-

der at the free end of the pin member and an annular external shoulder on the pin member and axially spaced from said internal shoulder, the box member having a counterbore receiving the pin member, an annular internal shoulder on the box member, the last named shoulder being within the counterbore and facing toward the free end of the box member, an external annular shoulder at the free end of the box member, mating threads on the box and pin members

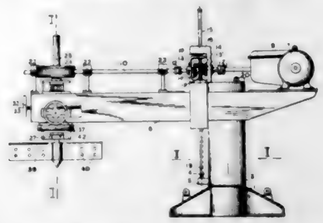
between the internal and external shoulders, the external and internal shoulders of one member facing the external and internal shoulders, respectively, of the other member, the axial spacing between the shoulders of one member with respect to the axial spacing between the shoulders of the other member being such that, when the external shoulders first engage one another, the internal shoulders of the two members are spaced apart by not more than ten one-thousandths of an inch.

2,532,633
QUICK-FREEZE APPARATUS
Roy M. Magnuson, Campbell, Calif., assignor of one-third to George H. Ballantyne, San Jose, Calif., and one-third to Cassius L. Kirk, Bozeman, Mont.
Application January 10, 1947, Serial No. 721,384
14 Claims. (Cl. 62—114)



1. Quick freeze apparatus comprising a rotatable support structure carrying a plurality of circumferentially spaced quick-freeze paths disposed in longitudinal parallel relation therein, each path having a loading opening and a discharge opening, means for progressing material along each of said paths from its loading opening to its discharge opening so that the material passes through the support structure in a plurality of parallel paths, a loading station adjacent said structure, a discharge station adjacent said structure, and means for operating said structure to present said freezing paths successively to said stations with the respective openings of a path registering simultaneously with the respective stations.

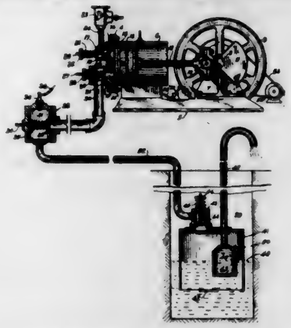
2,532,634
STRICKLING MACHINE
Odon Ghislain Joseph Meunier, Fayt-lez-Manage, Belgium
Application June 30, 1947, Serial No. 757,959
In Belgium December 14, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 14, 1962
1 Claim. (Cl. 22—24)



In a strickling machine, the combination of a vertical independent upright, an undeformable rigid radial member fitted over said upright adapted to revolve unrestrictedly around same and provided with a longitudinal slideway, a strickling tool holding means including a vertical spindle portion, a socket rotatably carrying said spindle, a carrier for said socket adapted to slide in the longitudinal slideway of the radial member, a motor carried by the radial member near the rotary axis thereof, a horizontal shaft carried by the radial member and controlled by the motor, a vertical threaded rod rotatably carried by the tool socket, a gearwheel engaging said threaded rod and held permanently at an invariable level with reference to the radial member, hand-operated means controlling the angular setting of said gearwheel and thereby the vertical location of the tool socket with reference to said radial member, and control means for adjusting the longitudinal position of said carrier and consequently of the spindle and wormwheel on the slideway.

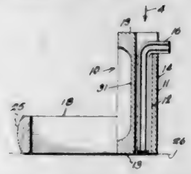
2,532,635
EXPLOSION OPERATED PUMP
Isaac C. Miller, Denver, Colo.
Application August 23, 1947, Serial No. 770,277
1 Claim. (Cl. 103—249)

Apparatus for pumping liquids, comprising: a combustion chamber, expansible chamber means for intermittently delivering a carbureted combustible mixture to the combustion chamber, means for operating the expansible chamber means, means for igniting the mixture in the combustion chamber to intermittently produce products of combustion, means for preventing retrogressive flow of the products of combustion from the combusion chamber to the intermittent delivery means, a pipe for delivering a mixture of liquid and products of combustion having the lower end thereof disposed within an inverted bell having its lower end submerged in a liquid supply, means for permitting flow of the liquid supply to the pipe and for preventing retrogressive flow of fluid in the pipe therethrough, conduit means for delivering all of the products of combustion from the combustion chamber to the bell for subsequent delivery to the pipe, whereby a fluid consisting of the products of combustion and



the liquid flow through the pipe, and means interposed between the pipe and the combustion chamber for preventing retrogressive flow of the products of combustion and the liquid supply into the conduit means.

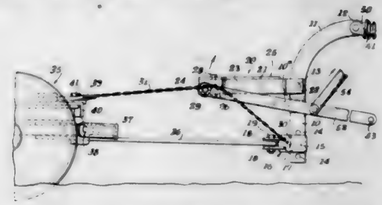
2,532,636
SOCKET WRENCH CABINET
Gilbert A. Minnich, Elyria, Ohio
Application September 18, 1946, Serial No. 697,729
1 Claim. (Cl. 206—16)



A socket wrench cabinet comprising a substantially rectangular body including a lower face, an upper face, substantially vertical side faces and a forward face, said body having a plurality of spaced parallel substantially vertical open ended bores provided therein, notches provided in the forward face of the body communicating with the open upper ends of the bores, means carried by the body for retaining the body perpendicular to a supporting structure for accessibility to wrenches positioned in the bores, and means for locking the retaining means relative to the body for closing the open upper ends of the bores, said retaining means including a substantially U-shaped member having spaced leg portions pivoted to the lower portions of the vertical side faces and a web portion connecting the leg portions, the leg portions and web portion including rear bearing edges coplanar with the lower face of said body when the member is pivoted to a position perpendicular to said body for resting against a supporting surface contacted by the lower face of said body to prevent tipping of the body.

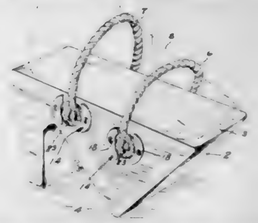
2,532,637
HITCH
Clarence E. Newkirk, Lynwood, Calif.
Application March 13, 1945, Serial No. 582,532
5 Claims. (Cl. 97—50)

1. A hitch comprising a substantially upright member adapted to be pivotally connected at its upper end to the hydraulic control of a tractor, a universal connection at the lower end of said member adapted to receive the forward end of the hitch bar of an agricultural machine having a part to be adjusted, an element of substantial length connected at its forward end to an intermediate part of said upright member, the rearward portion of said element being of substantial width and having a plurality of spaced holes arranged along said width, power-operated lift



drawbars connected at their rear ends to said rearward portion of the element and adapted to be connected at their forward ends to the rear end of a tractor, an elongated flexible member connected at its forward end to said universal connection and adapted to be connected at its rear end to said agricultural machine, and a pin selectively positioned in the mentioned holes to effectively deflect said elongated flexible member so as to vary the tensioning effect of the latter member as desired.

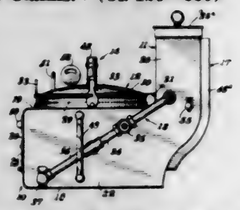
2,532,638
SANDAL TYPE SHOWER SHOE WITH ADJUSTABLE FOOT-RETAINING MEANS
Albert L. Niccoli, Phoenix, Ariz.
Application November 22, 1948, Serial No. 61,356
3 Claims. (Cl. 36—11.5)



1. A shower shoe composed of a thick sole block having an elevated foot suporting surface, a hole extending transversely through said block at a forward position to receive the ends of a forward foot retaining rope adapted to engage the foot of the wearer just to the rear of the toes, a hole extending transversely through said block at a rearward position to receive the ends of a rearward foot retaining rope adapted to engage over the foot of the wearer just forward of the ankle, metal bearings having disks centrally pierced to receive the shank of an adjusting screw, and each secured within one of the ends of each of said holes, foot retaining ropes having knots formed at each end extending over said foot supporting surface, a closed looped band enclosing the knot at one end of each of said ropes and having threaded holes to receive adjusting screws, adjusting screws having shanks inserted through each of the knots at the ends of said ropes not enclosed by said bands, and through said bearing disks and extending through said holes in said block and being adapted to hold each of said knots through which they pass in each of said

holes, and being threaded through said bands, so as to draw each of the knots enclosed thereby into the opposite ends of each of said holes in said block.

2,532,639
FOOD COOKER
Thomas H. Payne, Los Angeles, Calif.
Application November 18, 1946, Serial No. 710,704
7 Claims. (Cl. 126—380)

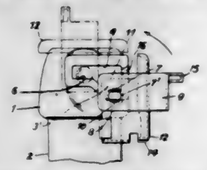


2. In a cooker of the character described, a pressure sealed pot, means for heating said pot extending therethrough, an open cooking oil reservoir located to be mainly above said pot, a flow connection between the pot and the reservoir whereby cooking oil passes from the latter to the former gravitationally and passes from the former to the latter under pressure in the former, said connection extending between a point of the pot below the reservoir and the lower portion of the reservoir and means for controlling said flow connection.

2,532,640
PROCESS OF ENAMELING
Wilbur H. Pfeiffer, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
No Drawing. Application August 24, 1946, Serial No. 692,921
3 Claims. (Cl. 117—53)

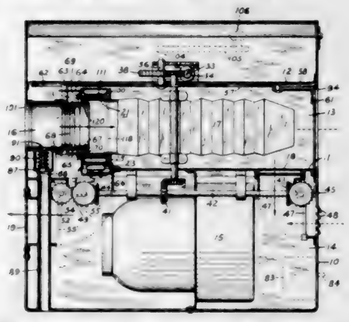
1. The process of providing a smooth white enamel porcelain finish coating upon bare enameling iron and steel which consists in first heating the bare iron and steel in a non-oxidizing atmosphere at a temperature of at least 1400° F. for at least a half hour to remove gases in the iron and steel and cooling the iron and steel in a non-oxidizing atmosphere substantially to room temperature and thereafter applying a milled white porcelain enamel coating in the form of a liquid suspension directly to the surface of the bare iron and steel, drying this coating, and heating the coated iron and steel at a temperature of at least 1500° F. for at least two minutes to provide a fused white porcelain enamel coating upon the surface of the bare iron and steel.

2,532,641
CONTAINER WITH CAP LOCKING DEVICE
Josef Ruetz, Biel, Switzerland
Application November 19, 1945, Serial No. 629,430
In Switzerland December 8, 1944
3 Claims. (Cl. 222—505)



1. A closure for a container having cavities in opposite faces of the neck with the upper boundary of the cavities substantially parallel to the plane of the mouth opening comprising, a cap member, a strap depending from each side of the cap and each overlying one of the cavities, each of said straps having a hole therein substantially opposite one of the cavities, a clamp member having legs straddling said neck, a pin carried by each leg of the clamp extending through the opening in said strap for engagement with said upper boundary of the cavity, a tubular pin secured to each of the legs of said clamp member and engaging the opening in an associated strap, and said first pin being eccentrically arranged with reference to axis of said tubular pin.

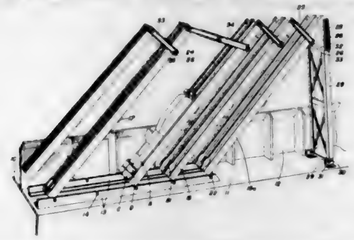
2,532,642
VACUUM CLEANER WITH DIRT-BAG FEED AND EJECTION
Edgar P. Senné, Rockville Centre, N. Y.
Application December 28, 1946, Serial No. 719,060
29 Claims. (Cl. 183—37)



1. In a vacuum cleaner chassis, in combination, a fan, a filtering compartment having an exit, a movable member adapted in a first position to secure the neck of a filtering bag while the bag is inflated within said filtering compartment and in a second position to release the neck of the bag, a movable door adapted in a first position to block said exit from the filtering compartment and in a second position to unblock said exit, and air valves and operating mechanism for each thereof movable to a position in which a current of air propelled by said fan is directed against the outside of the bag during the time the member and the door are in their second positions, whereby to expel the bag from the chassis by air pressure.

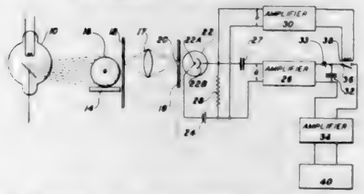
2,532,643
ROCKET LAUNCHER
Lorenzo A. Richards, Riverside, and Frederick C. Lindvall, Altadena, Calif., assignors to the United States of America as represented by the Secretary of the Navy
Application August 13, 1945, Serial No. 610,656
2 Claims. (Cl. 89—1.7)

1. A rocket launcher comprising an elongated horizontal base having laterally spaced and confronting flanged uprights, bracket members in virtual continuation of the uprights but spaced beyond one extremity of the base, an end frame erected from said bracket members, a plurality of rocket guiding units supported on the base, each of the units having at one of its ends pins by which it is journaled in the flanged uprights for turning into a tilted position, means securing the top of the end frame to the nearest unit to establish the amount of tilt, and interconnections between said nearest unit and the succeeding units



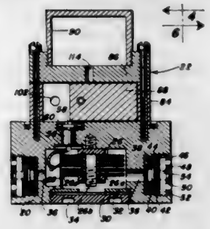
to support the latter in parallelism to said nearest unit.

2,532,644
SORTING APPARATUS
Charles F. Robinson, Pasadena, Calif.
Application February 18, 1949, Serial No. 77,158
18 Claims. (Cl. 250—52)



1. A method for automatically selecting between a plurality of objects based on the X-ray transparency characteristics of each object which comprises detecting relative variations in X-ray transparency from part to part of each object and segregating the objects on the basis of uniformity and non-uniformity of X-ray transparency between different parts of each object.

2,532,645
HYDROSTATIC FUSE
Gaynor O. Rockwell, Houston, Tex., assignor to the United States of America as represented by the Secretary of the Navy
Application February 20, 1946, Serial No. 649,093
3 Claims. (Cl. 102—70.2)

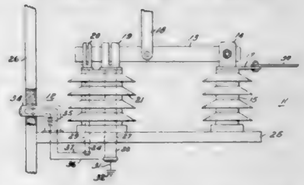


2. A hydrostatic fuze including an electrically detonatable squib and a delayed action sea water battery having an entry port normally closed by a diaphragm capable of being fractured at a predetermined pressure for permitting the entry of sea water for activating the battery, in combination, a slidable connecting member having an armed and an unarmed position, said member having a groove and a communicating opening, resilient means urging said member toward said armed position, detent means operable beside said member and having a projection occupying the opening to detain said member in the unarmed position, and spring-loaded fluid-pressure operated means coupled to said detent means, being operable by a fluid pressure different from the predetermined pressure aforesaid, for moving said detent means counter to its spring loading and in respect to said connecting member to displace the projection into the groove.

2,532,646
SIMULATED GOLF GAME PROJECTOR WITH FALLING HEAD FOR STRIKING A BALL
Gordon H. Severin, Oklahoma City, Okla.
Application September 2, 1949, Serial No. 113,694
9 Claims. (Cl. 273—129)

8. In a ball game wherein a ball is to be projected, the improvement comprising a striking element for moving said ball on impact therewith, and an elongated member slidably engaged by said striking element in such manner that when the lower end of said elongated member is placed on a surface adjacent said ball resting on said surface and said striking element allowed to slide down the said member by gravity the ball is struck by said element and thereby moved away from the striking element and elongated member.

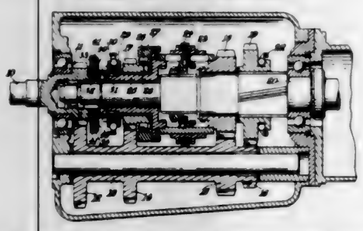
2,532,647
MEANS OF SWITCH POSITION INDICATION
Thomas G. A. Sillers, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 13, 1947, Serial No. 791,551
4 Claims. (Cl. 177—311)



2. A ground safety device comprising an electro-responsive indicating means and a source of current exclusively therefor, said source of current having terminals of opposite polarities, one of said terminals being connected to said indicating means, a ground lead, a conductor, a switch comprising a movable contact and first and second contacts conductively engageable by said movable contact for connecting said conductor to said ground lead through said first

contact, said second contact interconnecting said indicating means with the other terminal of said source of current through said movable contact for causing energization of said indicating means only if said movable contact connects said conductor to said ground lead through said movable contact and said first contact.

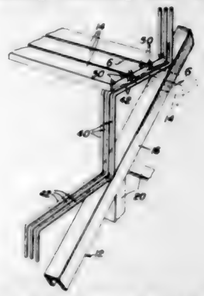
2,532,648
SYNCHROMESH COUPLING
Frank Henry Tarlton, Alvaston, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application August 11, 1947, Serial No. 767,904
In Great Britain August 19, 1946
6 Claims. (Cl. 74—339)



1. A coupling mechanism comprising a pair of rotatable coaxial toothed members capable of relative axial movement into and out from engagement with one another; means to apply axial pressure to one at least of said toothed members to effect said relative axial movements; a pair of co-operating friction members whereof the friction surfaces are annular and contained in a plane at right angles to the axis of the toothed members, said friction members being connected to rotate one with each of said toothed members, one of said toothed members having formed therein a number of axially-directed slots and having at the end of each slot an intercepting face which is contained in a plane at right angles to the axis of rotation of the toothed members, and the friction member rotatable with said one of the toothed members having a number of axially-extending tails disposed radially inwards from its friction surface, there being one tail for each of said slots, said tails each having a portion of a less angular extent than its associated slot, said portion being normally engaged within its associated slot to permit a limited rotative freedom of said friction member with respect to said one of the toothed members, and having a wider portion which can only enter its associated slot to permit said axial engaging movement of the toothed members when the tail is centrally disposed with respect to its associated slot; said wider portion being formed with an intercepting face contained in a plane at right angles to the axis of rotation of the toothed members, said intercepting face being arranged to co-operate with the intercepting face at the end of its associated slot to prevent said wider portion entering the slot until the tail is centrally disposed with respect to its slot; and spring means arranged lightly to press the friction members into contact with one another.

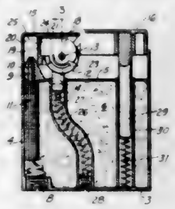
2,532,649
BLEACHER STRUCTURE
James W. Thompson, Alexandria, La.
Application November 23, 1948, Serial No. 61,594
1 Claim. (Cl. 20—1.126)

In a bleacher structure, the combination of an inclined stringer, a set of three spaced parallel rods affording stepped horizontal supports and secured at longitudinally spaced points to the upper edge of said stringer, a set of tread forming boards extending transversely of said supports and having abutting end edges disposed



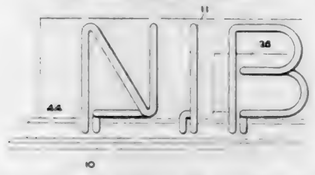
above the axis of the center rod in the set, and fastening elements provided in the abutting end portions of said boards and extending through the spaces between said rods, whereby the boards are adjustably and removably secured to said supports.

2,532,650
POCKET LIGHTER
Eberhard Tigges, San Francisco, Calif.
Application June 12, 1948, Serial No. 32,667
1 Claim. (Cl. 67—7.1)



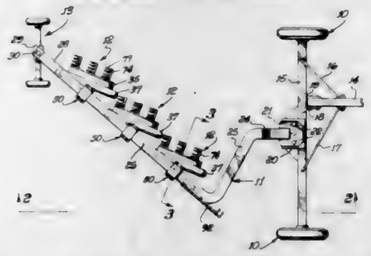
A lighter consisting of a housing with a wick and flint positioned therein and both exposed at the upper portion thereof, a friction wheel engageable with the said flint, the said friction wheel being mounted on a shaft at the upper portion of the housing, a snuffer pivotally mounted on said shaft and of substantially U-shape in cross section and closed at its forward end, top and sides and open at its other end and bottom, a vertically movable thumb piece also being of substantially U-shape in cross section and having a depending plunger attached thereto, a recess in the housing within which the plunger is positioned, spring means to normally maintain the plunger and thumb piece in an upward position, the said thumb piece having a closed end, top and sides and an open end and bottom, the said open ends of the snuffer and thumb piece being in slightly overlapped relationship, a pin extending laterally inwardly from the said open end of the thumb piece, the open end of the snuffer having an inclined straight slot in one of its sides that extends toward the open end thereof and includes a closed inner end, and the inner closed end of the slot terminates closely adjacent the pivotal connection of the snuffer with the housing in spaced relation thereto and rearwardly thereof with the pin normally disposed at the closed end of the slot, whereby upon depression of the thumb piece, the thrust of the pin in the slot due to the position of the same therein and with respect to the pivotal mounting of the snuffer initially resists downward movement but, upon further downward movement, the snuffer is moved on its pivot and has a snap action from a closed or horizontal position to a substantially vertical position, and when in such position, the pin is moved away from the closed end of the slot toward the open end thereof.

2,532,651
ILLUMINATED SIGN WITH INTERCHANGEABLE SIGN ELEMENTS
Louis R. Tschopp, Buffalo, N. Y.
Application January 30, 1945, Serial No. 575,245
1 Claim. (Cl. 40—130)



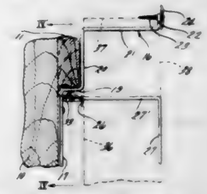
A sign element for use in combination with others in a relatively flat longitudinally channeled holder having horizontally spaced longitudinal flanges, one formed to interfit with the sign elements and the other having resilient contact elements normally urged toward the one flange; said sign element comprising a generally symbol portion and a mounting portion extending rearwardly from the base of the symbol portion, said mounting portion having a face formed to interfit with said one flange and spaced electrical terminals at its opposite face for engagement with spaced contact elements for energizing said sign element, and an insulating projection formed on said mounting portion between said terminals to disengage one of said contact elements upon assembly of said element in the holder whereby engagement of said electrical terminals with contact elements at opposite sides of the displaced contact element establishes a circuit for said sign element.

2,532,652
ROTARY SIDE-DELIVERY RAKE
Alexander J. Wray, Sr., Pomona, Calif.
Application July 6, 1948, Serial No. 37,181
9 Claims. (Cl. 56—377)



1. In a side delivery hay rake, a frame, means for attaching a source of power to said frame to drag said frame over the ground, a plurality of raking members resiliently suspended from said frame, said raking members being in echelon formation and having their planes of rotation at an angle oblique to the direction of travel of said frame, each of said raking members comprising a horizontally disposed axle, a wheel rotatably mounted on said axle, a rake support rotatably disposed on said axle, said rake support being formed with a plurality of bearing journals at the outer periphery thereof, a horizontally disposed tine support rotatably supported by each of said bearing journals, a plurality of raking tines supported by each of said horizontal tine supports, each of said horizontal arms being formed with a crank arm at the inner end thereof, a flange non-rotatably disposed over said horizontal shaft and formed with a plurality of roller bearings, a spider having an enlarged aperture disposed over said bearing means and adapted to rotate thereabout, said spider being formed with a plurality of arms adapted to rotatably connect with said crank arms, each of said raking assemblies being pivotally mounted to said frame and means for causing each of said raking members to pivot with respect to said frame, said means comprising a bar connected to each of said raking members and a lever adapted to move said bar.

2,532,653
DRAPERY FIXTURE
Mildred B. Wright, Berwyn, Ill.
Application October 2, 1947, Serial No. 777,427
6 Claims. (Cl. 160—348)

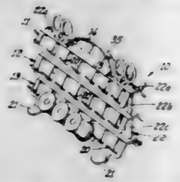


1. In a drapery fixture of the class described, a bracket member having a vertical portion and means for securing the same to a window frame, a horizontal flange extending outwardly from the plane of the bracket, a plurality of drapery fold spreader elements each having a vertically extending downwardly curved portion and a horizontally extending portion, means for clamping the inner ends of said horizontal portions to the horizontal flange of said bracket in spaced apart positions, and means connected with the bracket for supporting and gripping gathered folds of a drape above the level of the horizontal portions of the spreader elements, said horizontal portions being substantially perpendicular to the plane of the curved portions, the horizontal and curved portions of adjoining spreader elements defining spaces for the individual reception of separate drapery folds for holding the folds in curved formations controlled by said spreader elements.

2,532,654
SPOOL AND SCISSORS HOLDER
Herman A. Zierold, Burbank, and Merle J. West, Los Angeles, Calif.; said West assignor to said Zierold
Application March 16, 1948, Serial No. 15,186
10 Claims. (Cl. 223—106)

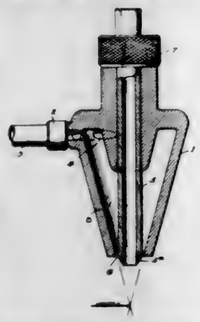
10. A sewing equipment holder comprising three or more vertically spaced shelf plates, having means disposed on opposite sides of a central strip thereof to support a plurality of spools of thread, the center strips in each of said shelf plates except the lowermost having open apertures therein and said apertures being aligned to receive a closed pair of scissors therein with the points of said scissors resting on the lowermost of said plates, and a strap extending through

aligned slots in said plates, the portions of said strap on opposite sides of each of said plates being twisted in opposite directions, whereby the edges



of said strap overlie and engage the margins of said slots to provide interlocking connection between the strap and said plates for holding said plates together in spaced relation.

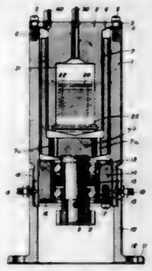
2,532,655
METHOD OF SANDBLASTING
Stanley Backer, Primos, Pa.
Application September 27, 1949, Serial No. 118,001
4 Claims. (Cl. 51—282)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A method of creating a stream of sand suitable for sandblasting which consists in permitting sand to flow in a straight line to a point or vertex, the sand during such flow being under no pressure except that arising from its own weight, and causing a whirling conical jet of gas to travel at high velocity to said point or vertex where it picks up the sand and forms a conical whirling stream of sand, the two cones being nappes of a complete cone.

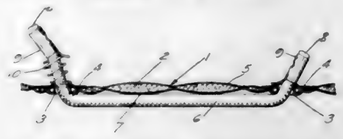
2,532,656
HYDRAULIC DAMPER
Walter M. Backus, Jr., and Charles W. Jarvis, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Navy
Application March 21, 1947, Serial No. 736,322
1 Claim. (Cl. 188—90)

In a damper, a hermetically sealed vessel having a generally circular-cylindrical bore, a concentric member therein and secured to the vessel, to define a cavity of annular cross section between said bore and the outer surface of said member, a tubular member mounted in said cavity, a shaft extending through one end of the vessel and mounted for rotation, said shaft carrying said tubular member to cause it to turn therewith, within the cavity, about the axis of the vessel, two anti-friction bearings for said shaft, spaced along said shaft, the bearing nearer the cavity being in open communication with said cavity, a sealing gasket between said bearings, a liquid within said cavity, and readily compressible means submerged in said liquid to prevent damage upon expansion of the liquid, said liquid fill-



ing all the space within the vessel, within the first named bearing, and up to the gasket, not occupied by said members therein or by the compressible means.

2,532,657
HANDLE FOR MATTRESSES AND THE LIKE
Michael Bechik, St. Paul, Minn., assignor to Bechik Products, Inc., St. Paul, Minn., a corporation of Minnesota
Application September 24, 1949, Serial No. 117,633
1 Claim. (Cl. 5—345)

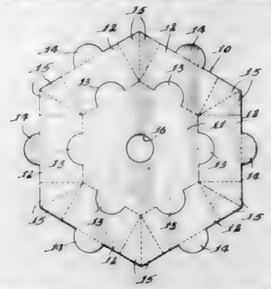


In combination with a mattress wall, a pair of washers, a pair of grommets extending through said mattress wall and said washers in spaced relation and securing the latter to the inside wall of the former, a flexible handle extending along the outer surface of said wall with its free ends projecting one each through one of said grommets, anchoring heads on the opposite ends of said handle within said wall, said heads normally being incapable of passing outwardly through said grommets and being longitudinally-spaced on said handle a distance greater than the distance between said grommets, and a coil compression spring interposed between one of said heads and the adjacent grommet on the inside of said mattress wall whereby to stretch the handle intermediate said grommets taut along the exterior of said mattress wall.

2,532,658
WINDING SPOOL
Albert P. D. Belanger, Alton, Ill., assignor to Alton Box Board Company, Alton, Ill., a corporation of Delaware
Original application February 5, 1944, Serial No. 521,224, now Patent No. 2,432,501, dated December 16, 1947. Divided and this application September 13, 1947, Serial No. 773,774
4 Claims. (Cl. 242—118)

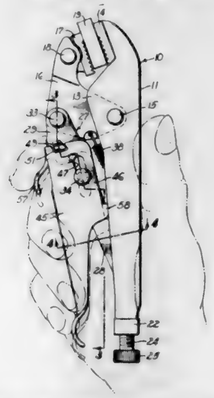
3. A winding spool in the form of a cup folded into shape from a piece of comparatively stiff sheet material, comprising in combination a base panel, side wall portions formed integrally with the base panel on all sides of the panel and standing at right angles thereto, inwardly extending corner tabs formed integrally with the side wall

portions and normally preventing the side wall portions from swinging inwardly beyond their normal positions at right angles to the base panel, lugs extending outwardly at the sides of the transverse base panel at right angles to the side



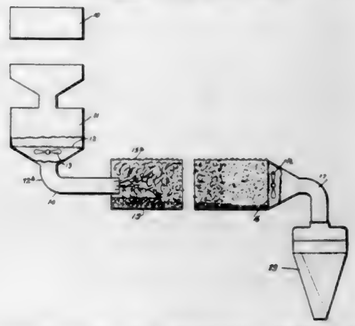
wall panels, and other lugs formed integrally with the side wall panels in position to be bent outwardly into parallelism with said first-named lugs for holding the material wound on the spool from movement axially out of position on the spool.

2,532,659
SNAP-LOCK WRENCH
Bruce Burns, Yucca Valley, Calif.
Application June 1, 1948, Serial No. 30,336
8 Claims. (Cl. 81—84)



1. A vise-grip wrench comprising: a first pivot pin; a handle member on which said first pin is carried, said handle member having a fixed jaw on its upper portion above said first pin and a handle portion extending downwardly below said first pin; an adjusting bolt threaded in the lower end of said handle with its head below the end of said handle, the axis of said bolt pointing in the general direction of said first pin; a movable jaw member having a movable jaw so placed on its upper portion as to grip an object placed between said jaws; a second pivot pin carried on said movable jaw member, said second pin being positioned to the left of a plane passing through the axis of said first pin and between the jaws, the axis of said second pin being parallel to the axis of said first pin; a first toggle link pivoted at its upper end on said second pin and carrying a third pivot pin, said first toggle link having an extension below said third pin; a second toggle link pivoted at its upper end on said third pin, its lower end abutting against the upper end of said adjusting bolt; a locking and releasing handle bent in channel form, the flanges of said channel extending inwardly from the web of the channel and enclosing the junction of said first and second toggle links, each of said flanges having a short slot therein, said slots being approximately parallel to the web of the channel and said third pin projecting through and sliding freely in said slots; spring means pulling said locking and releasing handle upwardly so that the third pin is held normally in the bottom of said slot; mutually engaging means between said first toggle link above said third pin and the upper end of said locking and releasing handle so placed that said locking and releasing handle is locked to and can actuate said first toggle link; and a projection on said locking and releasing handle which contacts said handle portion of said stationary handle member at a point below said third pin when the toggle formed of said first and second toggle links is near its locked position.

2,532,660
APPARATUS FOR PRODUCING FIBER STAPLES
Arthur J. P. Care, Toronto, Ontario, Canada
Application May 11, 1944, Serial No. 535,171
1 Claim. (Cl. 241—51)

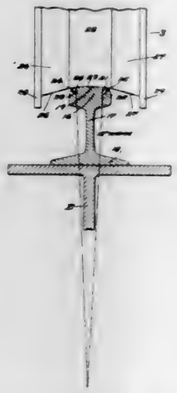


Apparatus for the production of fibre staples comprising in combination a hammer mill for separating dried pulp into individual fibre staples, a closed, elongated collection chamber for receiving individual fibre staples from the hammer mill, said collection chamber having an air outlet closed by porous material, a conduit extending from the hammer mill a short distance into the collection chamber, a finely screened outlet for said collection chamber in alignment with said conduit, suction means for drawing a mixture of air and finely divided particles through said screened outlet, blower means adapted to create an air current for maintaining the fibres in the hammer mill in air suspension, said air current being effective for conveying sized fibres from the hammer mill to the collection chamber in a turbulent air suspension and for maintaining individual fibres in the collection chamber in an air suspension.

2,532,661
MONORAIL WHEEL
Presley S. Combs, Los Angeles, Calif., assignor to P. S. Combs and Anson S. Bilger, both of Los Angeles, Calif., as trustees
Application June 22, 1945, Serial No. 600,973
2 Claims. (Cl. 105—150)

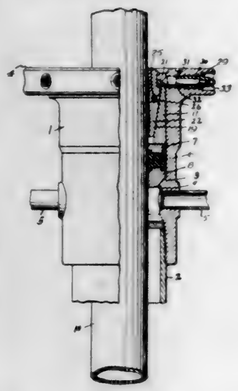
1. In a suspended monorail system of the character described, a railway rail having a head por-

tion presenting a curved upper surface of a predetermined radius, a load-carrying wheel adapted to ride on said rail, said wheel presenting a central annular surface engaging the surface of and of substantially the same width as the rail and said surface having a radius substantially complementary to the radius of the rail surface.



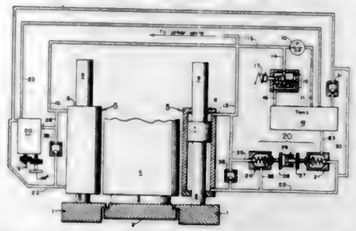
and a pair of secondary conical surfaces on the wheel, one on each side of the central surface and forming a continuation thereof, said secondary surfaces being disposed at acute angles with relation to the axis of rotation of the wheel and diverging away from said central surface.

2,532,662
WELLHEAD ASSEMBLY
John E. Eckel and Marvin R. Jones, Houston, Tex., assignors to Oil Center Tool Company, Houston, Tex., a corporation of Texas
Application February 12, 1948, Serial No. 7,738
11 Claims. (Cl. 285—22)



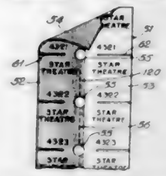
1. In a well head assembly, a sectional slip bowl, an annular split sealing assembly associated with the bowl and attached to the sections of said bowl, said sealing assembly including a seal ring formed of resilient material and open at one side and forming, in effect, a hinge on which the sections of the bowl and sealing assembly may be opened and closed.

2,532,663
CLAMPING MECHANISM FOR DRAW PRESSES
Charles G. Ellis, Union, N. J., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 3, 1946, Serial No. 681,371
11 Claims. (Cl. 60—52)



1. In a press having a downward acting member for clamping work to be operated upon by said press, the combination of a vertical clamping motor for urging said member against said work and including a differential piston the lower face of which is larger than the upper face thereof, means for supplying liquid at a substantially constant pressure to the upper end of said motor, and a pressure control valve having two inlets connected to the upper and lower ends of said motor respectively and an outlet connected to exhaust, said valve having means to resist the flow of liquid through said inlets and thereby enable said valve to maintain in the lower end of said motor a pressure lower than said constant pressure in the upper end of said motor.

2,532,664
TICKET
Benjamin H. Freedman, New York, N. Y., assignor to General Register Corporation, New York, N. Y., a corporation of New York
Application June 1, 1946, Serial No. 673,852
3 Claims. (Cl. 281—5)

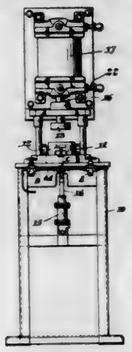


1. A ticket composed of a shape retaining material having a main weakened line extending only longitudinally of the ticket and intermediate its longitudinally extending edges dividing the ticket into two columns of stub areas, each ticket as initially issued corresponding in size to a multiple of transversely extending unit areas corresponding in number to the number of patrons for which the ticket is issued, the main weakened line defining the division along which the ticket is to be separated into its respective stub areas, transversely extending demarcations consisting of weakened lines defining the ticket into successive ticket areas, said transversely extending demarcations forming a guide to predetermine where to divide and to facilitate dividing the successive ticket areas from one another in case of an emergency along such transversely extending demarcations, said transverse demarcations being less weak in degree than said main weakened line so that there is little danger of separating said ticket transversely along said transverse weakened lines when separating said ticket into its respective stub areas along said main weakened line, said transverse demarcations extending inwardly from the outer edges of the ticket part way across the respective stub areas to facilitate starting the transverse divisions along the transverse demarcations when desired, and pin hole receiving openings intercepting said main weakened line at points in alinement with said transverse demarcations.

2,532,665
CALCIUM SILICATE-RUBBER COMPOSITIONS CONTAINING CARBONATE ESTERS AND METHODS OF COMPOUNDING THEREOF
Frederick W. Gage, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application August 31, 1948, Serial No. 47,139
11 Claims. (Cl. 260—31.4)

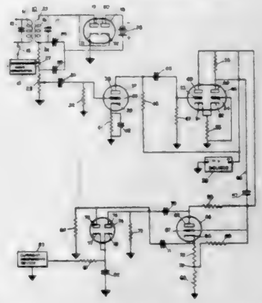
1. A vulcanizable rubber composition comprising a hydrocarbon interpolymer of a major proportion of isobutylene with a minor proportion of a polyolefin having 4 to 12, inclusive, carbon atoms per molecule, finely divided calcium silicate having an average particle size less than one micron and having a ratio of SiO_2 to CaO not less than 2 to 1 nor more than 4 to 1, and a small amount, sufficient to diminish stickiness but not over 5 percent by weight based on the weight of the interpolymer, of a carbonate ester of (*a*) a polyhydroxy saturated aliphatic compound in which the hydroxy groups are esterifiable with acids and (*b*) an acid ester of carbonic acid and an aliphatic saturated monohydroxy compound which contains a single hydroxy group which is esterifiable with acids; wherein the hydroxy groups of (*a*) are esterified with (*b*).

2,532,666
MANUALLY CONTROLLED SOAP PRESS
James Garvey, Vancouver, British Columbia, Canada
Application October 8, 1948, Serial No. 53,405
10 Claims. (Cl. 25—10)



1. In a manually controlled soap press of the type having a fixed die adapted to receive a cake of soap, a moveable die adapted to close thereon to compress the cake of soap, a fluid-operated double acting cylinder and piston assembly, and a multi-way valve operable to connect fluid under pressure to said assembly to move the moveable die to open and closed positions, an improved safety operating arrangement comprising means normally holding the multi-way valve in position to connect said cylinder and piston assembly to move the moveable die to one of said positions, means operable by a gaseous fluid under pressure and adapted in response to a given pressure to actuate the multi-way valve to connect said cylinder and piston assembly to move the moveable die to the other of said positions, a line connecting the last mentioned means to a source of gaseous fluid under pressure, safety valve means in said line comprising, two hand operated valves, each adapted in a first position to interrupt the line and exhaust the same on the low pressure side of each hand operated valve, and in a second position to open the line, and, between the hand operated valves, valve means adapted on actuation of the multi-way valve and equalization of pressure in the line, to close the line and maintain the same closed until the hand operated valves are both returned to said first position.

2,532,667
HIGH-SPEED PULSE RECEPTION SYSTEM
Donald L. Hings, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application August 6, 1945, Serial No. 609,261
In Canada July 20, 1945
3 Claims. (Cl. 250—20)



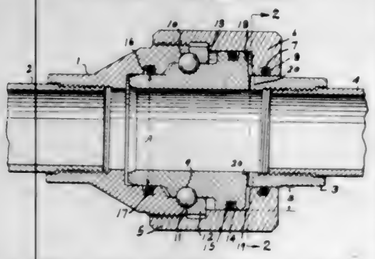
2. In a pulsed continuous wave reception system having on and off periods producing alternate spacer and marker intervals, means for producing interference waves having a component of frequency lower than said continuous wave in the pulsed continuous wave reception system, means adapted to receive both continuous wave and interference energy during the spacer intervals for detecting the interference wave energies, a square wave amplifier for amplifying and limiting the detected interference energies, inverter tube means for inverting the amplified and limited square wave interference energies into voltages of opposite phases above ground, a full-wave rectifier tube for rectifying the two voltages, and current responsive means controlled by the rectified energies of the rectifier tube.

2,532,668
PURIFICATION OF BRANCHED CHAIN PARAFFINS
Alfred E. Hirschler, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application May 27, 1946, Serial No. 672,686
3 Claims. (Cl. 260—676)

1. A process for purifying a branched chain paraffin hydrocarbon from a liquid mixture com-

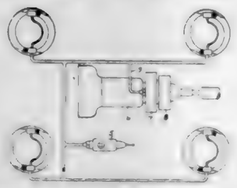
posed of more than 80% of said paraffin hydrocarbon together with a small amount of a naphthene hydrocarbon as impurity which comprises filtering the mixture through a body of activated carbon, thereby selectively adsorbing said naphthene, and separating from the activated carbon a filtrate fraction containing said branched chain paraffin hydrocarbon in more nearly pure form.

2,532,669
BALANCED THRUST SWIVEL JOINT
Marvin R. Jones, Houston, Tex., assignor to Oil Center Tool Co., Houston, Tex., a corporation of Texas
Application May 19, 1947, Serial No. 748,909
6 Claims. (Cl. 285—97.3)



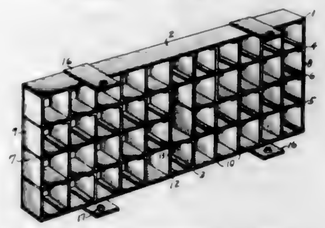
1. A swivel joint including, a pair of tubular joint members having their end portions telescoping each other, bearing means engaging the joint members for rotatably securing the telescoping members to each other and for preventing relative axial movement of said members with respect to each other, and means on each member exposed to the fluid pressure within each joint for balancing the pressure acting on said joint members, whereby the pressure which would normally urge said members toward a separated position is nullified and end thrust on the bearing means is eliminated.

2,532,670
BRAKING SYSTEM FOR MOTOR VEHICLES
Ludger E. La Brie, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application November 20, 1946, Serial No. 711,114
4 Claims. (Cl. 188—18)



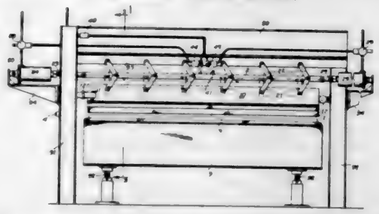
1. In a braking mechanism for motor vehicles, a set of hydraulically operated self-energizing wheel brakes self-energizing in the forward but not the rearward movement for retarding the forward movement of the vehicle, an individual cylinder for each of the wheel brakes, a master cylinder, driver operated means for applying liquid from the master cylinder to the individual wheel cylinders, a propeller shaft, a brake drum surrounding the propeller shaft, a hydraulically operated brake band for frictionally retarding the propeller shaft drum, a cylinder for controlling the brake band energized by the driver operated means, and roller clutch means between the propeller shaft and the propeller shaft brake drum operable in the reverse movement of the propeller shaft to engage the propeller shaft and brake drum in driving relation.

2,532,671
MIXING DEVICE FOR GAS BURNERS
Laclede Lients, Kansas City, Mo.
Application April 20, 1946, Serial No. 663,744
1 Claim. (Cl. 158—106)



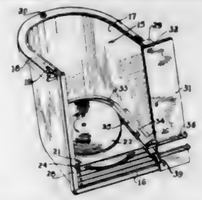
A mixing device fabricated of sheet metal strips for use with multiple jet burners, including a plurality of spaced horizontal parallel sheet metal bar members, U-shaped sheet metal members having legs turned inwardly and secured to the respective ends of said spaced parallel members for forming end walls of the device, a plurality of spaced vertical parallel sheet members partitions extending between and transversely of adjacent horizontal members and having the same width as said horizontal members for dividing said device into a plurality of substantially square through openings each of which is adapted to be aligned with a burner jet to form an unimpeded through mixing chamber of uniform cross sectional area for each jet, said vertical partitions being arranged in spaced vertically aligned rows, and right angular flanges on the partition edges adjacent the horizontal members, said flanges being secured to said horizontal members, the flanges on each partition being turned in an opposite direction to the flanges on the adjacent partitions in the same vertical row and flanges on the partition at one end being turned in an opposite direction to the flanges on the partitions between the same horizontal members at the other end of said device.

2,532,672
VENEER CLIPPERS
Stephen L. Michael, Tacoma, and Victor E. Anderson, Pacific City, Wash., assignors to The Wheeler, Osgood Company, Tacoma, Wash., a corporation of Washington
Application December 18, 1946, Serial No. 716,992
2 Claims. (Cl. 164—47)



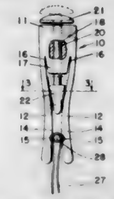
1. A wood veneer clipper comprising an upper and a lower rigid frame element spaced apart for passage of a wood veneer sheet therebetween, a resistance member carried by the lower frame member in position to contact and support the passing veneer sheet, a sharp-edged knife disposed above said resistance member, and guided for downward movement into contact with the resistance member, and then upward movement to clear the veneer sheet, multiple toggle links for said knife supporting the latter from the upper frame element, the links being of such length as, when fully extended, to bring the knife's edge into contact with the resistance member, an operating rod connected to the joint between all the toggle links, in common, single-acting motor means connected to the opposite ends of the operating rod to shift the links between a retracted position at one side of their fully extended position to a similar retracted position at the opposite side, and means to energize said motor means alternatively as required.

2,532,673
PHONOGRAPH RECORD FILE
James W. Mossett, New York, N. Y.
Application August 14, 1947, Serial No. 768,633
2 Claims. (Cl. 312—15)



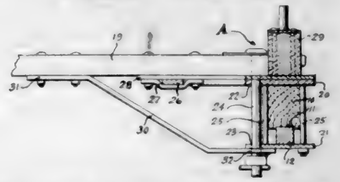
1. A phonograph record file comprising a casing having a rounded rear wall portion and an open front portion, partitions adapted to be extended into the front of the casing and supported therewithin, spacing elements on the opposite faces of the partition to retain the partitions in vertically spaced relationship, an extracting band for the records connected to the top face of a partition and having an extension adapted to be pulled forwardly out of the partition in order to extract the records therefrom, said band extending from one side of the partition to the other and at the side opposite to the extension being pivoted to the partition, and a pivoted pull member adapted to be pivoted outwardly from a laterally extending position when the record is to be pulled and adapted to be returned to the lateral position after the record has been reinserted, and a stop for limiting the outward pivotal movement of the pull handle.

2,532,674
CLOTHESPIN
Magnus O. Nelsen, Los Angeles, Calif.
Application October 21, 1946, Serial No. 704,575
2 Claims. (Cl. 24—137)



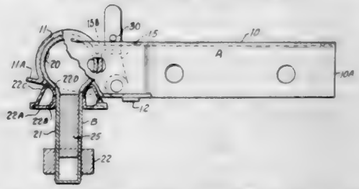
1. A clothes pin comprising a body having a head a pair of converging, inherently resilient legs extending a substantial distance therefrom, said head and legs being formed to define a wedge-shaped space between the legs adjacent the head, said legs being normally positioned closely together beyond said wedge-shaped space for gripping engagement with a clothes line and an article to be attached thereto, and a stem slidably mounted in the head and extending into said space in the same general direction as said legs, said stem having a wedge at its inner end in said space whereby, upon inward movement of said stem, said wedge effectively spreads said legs, said stem projecting outwardly beyond said head for manual engagement.

2,532,675
WAGON AXLE AND REACH CONNECTION CONSTRUCTION
Ross William Phelps, Orillia, Ontario, Canada
Application October 1, 1947, Serial No. 777,303
2 Claims. (Cl. 280—125)



1. In a wagon a reach, an axle having a wooden and a metal section, said wooden section being formed with a longitudinal groove to snugly receive the metal section, means for shackling said sections together, means for pivotally connecting the reach to said axle comprising two connecting plates, one plate overlying the other and abutting the top surface of the axle and projecting beyond the front and back edges of the top surface of the axle, the other plate abutting the bottom surface of the axle and projecting beyond the front and back edge of the bottom surface of the axle, bolts, the projecting portions of said plates being formed with aligned bores to receive said bolts in abutting relation to the front and back surfaces of the axle, the projecting portions of said plates to the front of said axle being formed with aligned reach king pin bores.

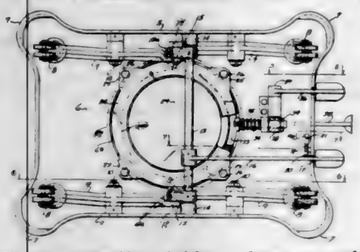
2,532,676
TRAILER HITCH
George A. Shaieb, Detroit, Mich., assignor to Active Tool & Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 9, 1947, Serial No. 747,098
2 Claims. (Cl. 280—33.17)



1. In a trailer hitch consisting of a socket member adapted to be fixed to the trailer and a ball member adapted to be secured to the draft vehicle, a ball member consisting of a ball having an integral threaded shank or stem and an abutment member adapted to resist thrust longitudinally of said shank, said ball and shank consisting of sheet metal halves each comprising ball and shank portions and said abutment mem-

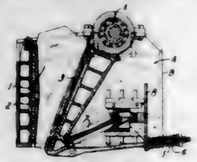
ber consisting of coaxial rings surrrounding said shank, the said halves and rings being brazed together to form an integral whole.

2,532,677
ELEVATING MECHANISM FOR OPERATING AND EXAMINING TABLES
Hyman Robert Shampaine, Clayton, Mo.
Original application February 22, 1943, Serial No. 476,699, now Patent No. 2,416,410, dated February 25, 1947. Divided and this application April 28, 1945, Serial No. 590,755
7 Claims. (Cl. 280—44)



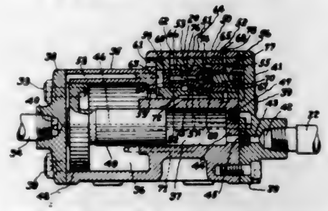
1. In an operating table, a base, a pedestal on the base, a table-top on the pedestal, and means for elevating the table for traveling movement, said means including a rotary shaft on the base, a pair of oppositely extending levers provided on opposed sides of the base, said levers pivoted intermediate their ends on the base, casters on the outer ends of the levers, rollers on the inner ends of the levers, cam-members on the shaft having actuating engagement with the rollers on the inner ends of the levers, and a pedal for rotarily actuating the shaft.

2,532,678
TOGGLE BLOCK ADJUSTING DEVICE FOR JAW CRUSHERS
Harry J. Shelton, University City, Mo., assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo., a corporation of Missouri
Application March 31, 1947, Serial No. 738,375
1 Claim. (Cl. 241—217)



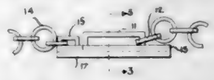
A jaw crusher having a housing, a movable jaw, a toggle plate for rockably supporting the lower end of said jaw, a toggle block for rockably supporting the toggle plate, a back-support in said housing, a plurality of removable shims disposed between the toggle block and back-support for adjusting the position of the toggle block in relation to the back-support, bracket means within the housing for supporting the shims, openings in the housing adjacent the ends of the shims for permitting ready insertion and removal thereof, a cross-bar interposed between the block and the shims and projecting at its ends outwardly through the openings, and means engaging the projecting ends of the cross-bar for optionally shifting the cross-bar and its associated toggle block away from the back-support for relieving pressure against the shims to facilitate removal thereof.

2,532,679
PRESSURE BOOSTER
Fred M. Slater, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application April 11, 1944, Serial No. 530,525
3 Claims. (Cl. 230—52)



1. A pressure booster, comprising a casing having a bore to define a power chamber and a compression chamber of smaller diameter than the power chamber, a piston in the chambers, a supply passage in the casing for supplying pressure fluid to the compression chamber for compression to a higher value and to actuate the piston in one direction, a discharge passage in the casing for the compression chamber, check valves to control the passages, inlet and exhaust passages in the casing for the power chamber, a valve to control the inlet and exhaust passages and having opposed actuating surfaces, and crossed kicker passages in the casing having their inlet ends covered and uncovered by the piston to valve pressure fluid intermittently to the actuating surfaces for actuating the valve.

2,532,680
CLASP COMPRISING INTERLOCKING MEMBERS HAVING MATCHING SURFACES
Gladys Snyder, Toronto, Ontario, Canada
Application June 18, 1947, Serial No. 755,377
1 Claim. (Cl. 24—201)

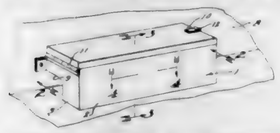


A clasp of the class described comprising a first member and an orificed second member, matching principal surfaces on said first and second members, a staple extending from the matching principal surface of said first member to a height substantially less than the width of said first member, the longitudinal axis of said staple being substantially perpendicular to the width of said first member, the length of the orifice in said second member being of sufficient dimensions to accommodate the width of said first member and to snugly receive said staple when said matching surfaces abut in clasping relationship, the maximum width of said orifice being substantially less than the width of said first member and the length of said staple and being of sufficient dimensions to accommodate the elevation of the staple on the first member together with a chain attachable thereto when said first member is passed through said second member.

2,532,681
EXTERMINATOR PROTECTING DEVICE
William J. Stover, Detroit, Mich.
Application January 19, 1946, Serial No. 642,160
2 Claims. (Cl. 43—131)

1. A protecting device for exterminating material embodying a casing having a front wall and

two end walls extending rearwardly therefrom, the bottom rear corners of the end walls having notches to provide apertures through which rodents may enter and leave the casing when the apertures are completed by the wall and floor to



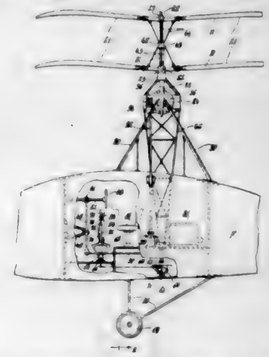
which the device is secured, a supporting bar secured to the rear edges of the end walls and disposed across the rear open face of the casing, said bar containing at least one aperture located between the end walls by which the bar and casing are secured to a support, and a cover for said casing hinged to one of said walls.

2,532,682
HONING MANDREL
Joseph Sunnen, Clayton, Mo.
Application February 15, 1949, Serial No. 76,591
4 Claims. (Cl. 51—184.3)

1. In a honing mandrel for use in finishing small bores in metal structures, a body including an enlarged, hollow head portion, a relatively slender mandrel shaft extending concentrically from said body, said shaft being formed throughout with a straight uniform axial bore of rectangular cross section, a relatively wide transverse hone carrier slot extending through the outer end portion of the shaft, and intersecting said bore, the width of the slot being such as to provide lateral hone carrier receiving recesses at each side of said axial bore, an elongated wedge bar of rectangular cross section snugly arranged in said bore for longitudinal movement, said wedge bar being formed with parallel angularly extending wedge slots at each side, and hone carrier elements having portions snugly seating in said recesses and constructed and arranged for radial movement therein, said hone carriers being formed with parallel angularly arranged wedge projections normally extending into the wedge slots of said wedge bars, and including angular hone carrying portions overlying the edge portions of said wedge bar.

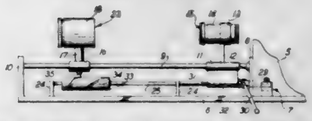
2,532,683
HELICOPTER HAVING ADJUSTABLE ROTORS AND STABILIZING FINS
Harry G. Traver, Cranford, N. J.
Application November 15, 1943, Serial No. 510,261
8 Claims. (Cl. 244—17.23)

6. In a helicopter including a fuselage and a prime mover mounted therein, a supporting frame mounted on and extending upwardly from the fuselage, rotor means, means connected to the supporting frame to have pivotal movement on a horizontal axis in line with the transverse center of the fuselage and rotatably supporting the rotor means to rotate on an axis coincident with the center of gravity of the fuselage, means to operatively connect and rotate the rotor means from the prime mover, means to adjust said rotor supporting means about its horizontal axis of support to position the rotor means to revolve in a horizontal plane and in planes inclining forwardly or rearwardly of the fuselage relative to the horizontal, fins mounted on the supporting frame below the rotor means to extend outwardly from the opposite sides thereof and have adjustment on horizontal axes extending transversely of the fuselage, a sector associated with and pivotally supported concentric of each fin, means for connecting and transmitting movement of the sectors to the fins, lever mechanism pivotally supported in the fuselage, and means to connect



said lever mechanism to the sectors and adapted by actuation of the lever mechanism to simultaneously actuate said sectors to adjust the fins to vertical position transversely of the line of flight and to positions to incline forwardly or rearwardly of the vertical and to positions with one fin inclining in one direction relative to the vertical and the other fin to incline relative to the vertical in a direction opposite to the direction of inclination of the first fin, and means to releasably lock the lever mechanism against movement and the fins in adjusted position.

2,532,684
LENS ADJUSTING MECHANISM FOR CAMERAS
Joseph B. Walker, Hollywood, Calif.
Application June 10, 1948, Serial No. 32,160
5 Claims. (Cl. 88—57)

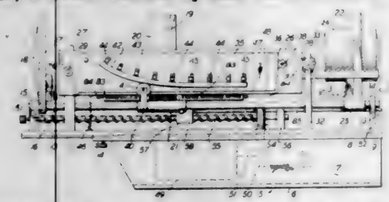


1. In a camera lens system, a lens assembly, means to move said lens assembly axially for varying the magnification of the subject, a secondary lens assembly, and focusing means for moving said secondary lens assembly axially coincident with movement of said first-named lens assembly and in optical alignment with the latter to maintain the focus of said lens system during movement of the first-named lens assembly, said secondary lens assembly comprising two negative lenses axially movable relative to one another to compensate for variations in distance between the subject and lens system.

2,532,685
LENS ADJUSTING MECHANISM
Joseph B. Walker, Hollywood, Calif.
Application July 23, 1949, Serial No. 106,435
9 Claims. (Cl. 88—57)

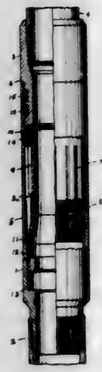
1. In a lens adjusting mechanism, a base, a pair of lens carriers, a primary lens and a secondary

lens mounted in said carriers, respectively, means to support said primary and secondary lens carriers for coaxial movement of said lenses over said base, a motor carried by said base, means actu-



ated by said motor to shift said carriers and lenses coaxially relative to one another, and means actuated by said carriers to stop said motor at the end of a pre-determined range of movement of said carriers.

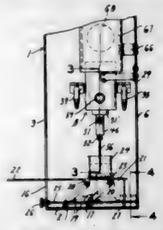
2,532,686
SAFETY JOINT
Cecil Ware, Houston, Tex.
Application September 18, 1945, Serial No. 617,099
3 Claims. (Cl. 255—28)



1. A safety joint comprising, an internally threaded box member, a longitudinally slitted pin member having an externally threaded expansible pin whose threads intermesh with the threads of the box member, an expander releasably secured in the pin member expanding the same so that its threads will intermesh with the threads of the box member when the pin is in expanded position in the box member, an internal shoulder forming an impact face on the expander disposed to receive an impact tool for releasing the expander to allow the pin to contract and release said intermeshing threads.

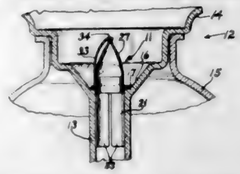
2,532,687
METHODS AND FLAME GENERATING APPARATUS FOR SPECTROPHOTOMETRIC QUANTITATIVE ANALYSIS
Theodore E. Weichselbaum, Normandy, Mo., assignor to Applied Research Corporation, a corporation of Missouri
Application October 21, 1948, Serial No. 55,754
11 Claims. (Cl. 88—14)

1. A method of spectro-photometric analysis of liquid which comprises generating a substantially colorless intensely hot flame, and injecting the liquid to be analyzed directly into the interior portion of the flame and at the base thereof in a high-pressure blast of oxygen to impart color thereto, imposing the light from the colored flame upon an electronic device capable



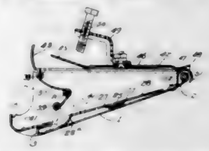
of emitting a measurable electric impulse directly proportional to the light stimulus and measuring said electric impulse.

2,532,688
BEVERAGE MAKING FILTER
Frank D. Wulff, Chicago, Ill.
Application April 28, 1949, Serial No. 90,153
6 Claims. (Cl. 210—162)



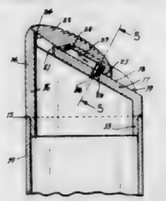
1. A filter for use in a beverage maker containing a tubular throat having an outwardly extending upper part, said filter comprising a lower tubular neck adapted to fit in said throat, means around the neck to rest on said upper part and support the filter, a hollow head arising from the neck and having its opposite wall parts converging toward the top providing slightly spaced ridges having a restricted slot therebetween, said head and its slot being positioned closely adjacent said throat, and a deflecting lip extending across and close to the slot, thus preventing solid particles from settling directly upon the slot and further providing a filtering part between the lip and the ridges as well as by the restricted slot between the ridges.

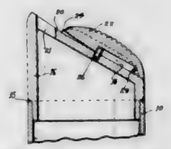
2,532,689
CIGARETTE CONTAINER, DISPENSER, AND LIGHTER
Peter J. Zanardo, Chicago, Ill.
Application March 22, 1948, Serial No. 16,235
2 Claims. (Cl. 312—78)



2. A cigarette container, dispenser and lighter comprising in combination, a magazine having means to which cigarettes disposed therein move singly by gravity to a supported position ready to be engaged and removed, manually operable means associated with said magazine to engage a so supported cigarette and remove and release same for further movement by gravity to a rest position, an igniter element carried by said magazine in a position contiguous to one end of a cigarette at rest position, switch means controlled through the movements of said manually operable means for providing energizing current to said igniter element to light a cigarette, heat responsive means carried by said manually operable means and thereby disposed in contiguity to said igniter element in one position of said manually operable means, and a bracket carried by said magazine for releasable engagement with said heat responsive means, in said one position of said manually operable means, said bracket releasing said heat responsive means when same has been heated to a predetermined degree.

2,532,690
APERTURED CAP FOR COLLAPSIBLE TUBE, HAVING FRICTION-BIASED RECIPROCABLE CLOSURE FOR THE APERTURE
Jay V. Zimmerman, St. Louis, Mo.
Application June 17, 1946, Serial No. 677,185
7 Claims. (Cl. 222—92)





1. In a container of collapsible type for dispensing materials of a paste or cream consistency, the combination comprising a hollow deformable body, a cap member secured at one end of the body and provided with a dispensing port, a port controlling element displaceably carried on said cap member for opening and closing the port, said cap member having a first inclined surface through which the port opens and a second inclined slide-forming surface, said port controlling element also having first and second inclined surfaces corresponding respectively to the first and second surfaces of the cap member, the first surface of the port controlling element being adapted for sliding movement over the first surface of the cap member and the second surface of the port controlling element being adapted for sliding engagement with the second surface of the cap member as the port controlling element is moved into port closing position to afford a limited degree of elevation of the element, and means on the cap member engageable by said element upon elevation thereof for effecting its releasable retention in port closing position.

2,532,691
WATER-REPELLENT FIBROUS STRUCTURES AND PROCESS FOR OBTAINING SAME
Kenneth L. Berry, Hockessin, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 5, 1947, Serial No. 726,717
15 Claims. (Cl. 260—29.6)

1. A composition of matter which comprises a colloidal aqueous dispersion of polytetrafluoroethylene containing from 2% to 40% of polytetrafluoroethylene and from 0.1% to 10% by weight of the polytetrafluoroethylene of a salt of the class consisting of ammonium and water-soluble basic amine salts of an N-monoalkyl substituted polymeric amic acid of an interpolymer of a polymerizable organic compound containing an ethylenic double bond as the sole aliphatic carbon-to-carbon unsaturation with a butenedioic acid anhydride, the recurring two non-oxo carbonyl groups in said polymeric amic acid being attached directly to adjacent carbon atoms of the polymeric chain which contains structural units in which the amide nitrogen atom has attached thereto hydrogen and a long-chain monoalkyl substituent of at least seven carbon atoms, the basic amines of said salts being those having an ionization constant value greater than 1×10^{-6} when measured at 25° C.

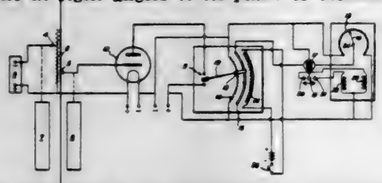
2,532,692
MEANS TO SUPPORT PORTABLE LOUD-SPEAKERS
Willy Borberg, Astoria, N. Y., assignor to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware
Application March 12, 1949, Serial No. 81,191
3 Claims. (Cl. 179—146)

1. In a support for portable speaker units, the combination with a receptacle having an open upper end, and a throat communicating at its upper end with the front edge of the upper opening, the throat leading downwardly and rearwardly; of a speaker unit; a projection extending rearwardly from one end of the speaker unit and of a width to slidably fit in the throat; and lugs carried by the projection, and extending laterally beyond the opposite side edges thereof, to engage the side walls of the throat and prevent disconnection of the speaker unit and receptacle when the projection is properly entered in the throat.

2,532,693
ODDS COMPUTING MEANS FOR RACE TOTALIZATORS
Edward Thomas Both, Cremorne, near Sydney, New South Wales, Australia, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia, a company of New South Wales, Australia
Application September 9, 1948, Serial No. 48,502
In Australia September 24, 1947
2 Claims. (Cl. 235—61)

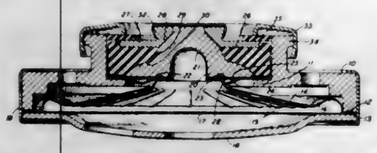
1. An odds computing device for race track totalizators including a grand total unit, a competitor unit, and a distributor, a rheostat having two movable arms, a source of constant electro-

motive force connected between one end of said rheostat and one movable arm thereof, a connection from the grand total unit to the latter arm for moving the latter in proportion to the grand total count, a connection from the competitor unit to the second rheostat arm for moving the latter in proportion to the competitor count, a circuit for operating an indicator according to the voltage drop between said arms comprising conductors from the end of said rheostat and the second rheostat arm, a moving coil relay having an oscillatory arm swingable in a plane at right angles to its plane of oscillation,



said relay having its oscillatory coil connected in said circuit, a bridge circuit comprising a transmitter potentiometer including a resistance underlying said oscillatory arm, and a receiver potentiometer having an arm, a contact strip also underlying the arm of the moving coil relay and connected by a conductor to the arm of the receiver potentiometer, a solenoid adjacent the path of movement of the arm of the moving coil relay and adapted to pull same into engagement with both the resistance of the transmitter potentiometer and the contact strip, and a local circuit for energizing said solenoid including a switch operated by the distributor.

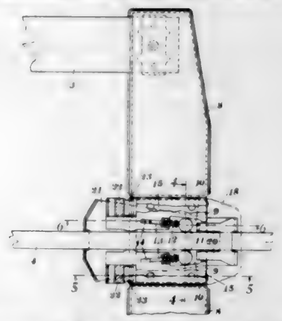
2,532,694
TELEPHONE TRANSMITTER HAVING FRUSTOCONICAL BACK ELECTRODE
Herbert W. Bryant, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1947, Serial No. 783,324
12 Claims. (Cl. 179—122)



1. A telephone transmitter comprising a fixed and a vibratile electrode having juxtaposed dished surfaces one of which is convex and substantially hemispherical and the other of which is frusto-conical and has its larger end toward the hemispherical surface, means including said surfaces bounding a chamber, and comminuted resistance varying material in said chamber.

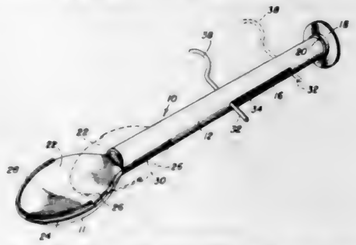
2,532,695
LOOSE-LEAF BINDER
Harold Arthur Cherry, Northfield, Birmingham, England, assignor to Kalamazoo Limited, Birmingham, England
Application July 11, 1944, Serial No. 544,357
In Great Britain August 5, 1943
2 Claims. (Cl. 129—41)

1. Means for securing the covers of a loose leaf binder of the kind specified, comprising the combination with at least one of the covers, of a longitudinal bar secured to the cover, cover-tightening thongs arranged parallel with said longitudinal bar, a cross bar attached to said thongs and slidable relatively to said longitudinal bar, at least one member carried by and capable of a limited amount of transverse sliding movement relatively to said cross bar, said member being formed with an inclined edge at a position alongside said longitudinal bar, spring-loaded frictional gripping means situated between and co-operating with said inclined edge and the adjacent edge of said bar, a slide mounted on said longitudinal bar and provided at one end with an inwardly directed projection for acting on and releasing said gripping means when said



slide is moved in one direction, an abutment on the other end of said slide, a second abutment on said cross bar, and a finger lever pivoted to said member and movable about its pivot axis into and out of a normal position in which it is folded over said cross bar, said lever being shaped and arranged so that when moved out of its normal position it serves by acting on the first mentioned abutment to actuate said slide for releasing said gripping means, and when returned to its normal position it serves to move said cross bar relatively to said member for the purpose of exerting a supplementary pinching action on the leaves of the binder.

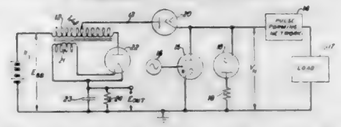
2,532,696
MEDICAL SPOON
Edison S. Comstock, Lincoln, Nebr., assignor of fifty per cent to John H. Comstock, Lincoln, Nebr.
Application October 15, 1947, Serial No. 779,941
2 Claims. (Cl. 30—326)



1. A medical spoon comprising a concavo-convexed member, a tubular handle carried by said member, a longitudinal slot provided in one end of said handle adjacent said member, a closure for said member slidably mounted in said slot, a spring urged plunger slidably mounted in said handle, said plunger being rigidly secured to said closure, a longitudinal slot intermediate the ends of said handle, a finger grip secured transversely to said plunger and slidably mounted in said last

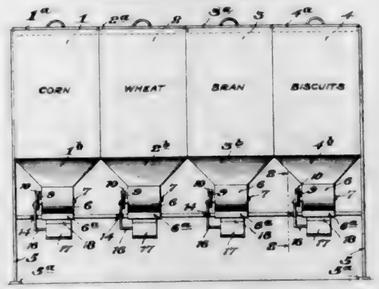
slot for actuating said closure into said first slot, a peripheral channel shaped beading about the forward end of said member, a pair of arcuate flanges at the rear portion of said closure slidably engaging the rear portion of said member and disposed exteriorly of said member, and an arcuate upstanding reinforcing and strengthening flange at the forward portion of said member.

2,532,697
VOLTAGE SUPPLY APPARATUS
Joseph E. Corbin, West Orange, and Russell C. Newhouse, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1948, Serial No. 48,896
7 Claims. (Cl. 171—97)



5. In combination, a pulse forming network predominantly capacitive at the charging frequency, unidirectional current means in series with a charging inductance to charge said network electrically, said inductance comprising the low voltage winding of an auto-transformer, unidirectional conducting means interposed between said inductance and said network to readily pass charging current from said inductance to said network but substantially preventing the flow of current from said network to said inductance, a load circuit, unidirectional conducting switching means to periodically and at predetermined intervals discharge said network through said switching means to said load, unidirectional conducting means connected in parallel to said last-named means to provide a conducting path in the direction opposite to that provided by said switching means, rectifying means connected to the high voltage side of said auto-transformer and said source in series, means to derive from said rectifying means a substantially constant direct voltage of large magnitude relative to said source.

2,532,698
DISPENSING APPARATUS FOR DISPENSING MEASURED AMOUNTS OF GRANULAR MATERIAL
Lloyd A. Corkins, Battle Creek, Mich.
Application October 12, 1945, Serial No. 621,997
11 Claims. (Cl. 222—135)

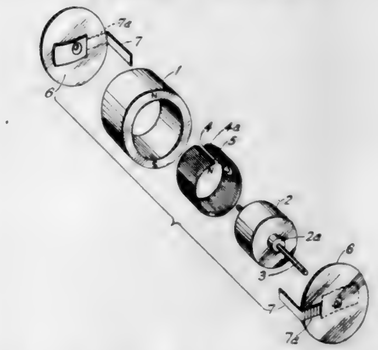


11. In a dispensing apparatus of the character described, the combination of a hopper, the lower end of the hopper contracting into a throat, a measuring and dispensing assembly joined to said throat for receiving material therefrom for measuring, said measuring assembly having a rotary measuring wheel mounted therein, a pusher means, means for joining said pusher means to said measuring wheel so that the latter is rotated by actuation of the pusher means, and a brake to hold said measuring wheel in substantially fixed position except when being actuated by said pusher means.

2,532,699
SEALING COMPOSITION
John B. De Coste, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 3, 1947, Serial No. 789,567
7 Claims. (Cl. 260—27)

1. A composition comprising from about 50 per cent to about 94 per cent of a viscous liquid polybutene, from about 5 per cent to about 30 per cent of hydrogenated rosin, and from about 1 per cent to about 10 per cent of an amide wax soluble in said composition at elevated temperatures.

2,532,700
ELECTRIC MOTOR AND GENERATOR
Joe Emil George Eurich, Manchester, and James Victor Eurich, Bolton, England
Application November 19, 1946, Serial No. 710,787
In Great Britain November 23, 1945
8 Claims. (Cl. 172—36)

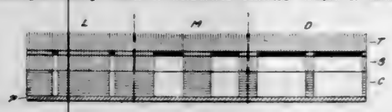


1. An electric machine comprising a magnet, a ring-wound core of magnetic material for co-operation with said magnet, said core and its winding being gapped to provide a separate C-shaped armature assembly for each pair of magnet poles, the winding being bared from end to end of such assembly to provide a commutator track, at least one pair of brushes for engagement with said track and supporting means providing for relative rotation of said magnet and ring-wound core.

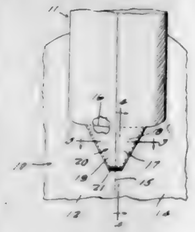
2,532,701
METHOD OF MAKING INTAGLIO OR GRAVURE PRINTING PLATES
William H. Falconer, Ridgewood, and Louis Calder Estler, Wortendyke, N. J.
Application March 20, 1947, Serial No. 736,088
3 Claims. (Cl. 95—5)

1. A two-exposure method of making a resist for intaglio etching by means of a single structured positive transparency having transparent

portions and opaque portions of uniform density so arranged that in each part of the picture the tone of the original is represented by the ratio between opaque area and transparent area on that part of the transparency and the darkest tone is represented by substantially separate opaque dots, which comprises assembling said transparency and a carbon tissue with a transparent spacer between them, and making two successive exposures of the carbon tissue through the structured transparency and the spacer, one with direct light which casts a sharp shadow of the dots of the structured transparency upon the carbon tissue and the other with diffused light which cuts under the dots of the structured transparency and casts a blurred shadow of them upon the carbon tissue.

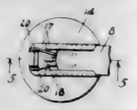


2,532,702
GARMENT WITH BREATHING SLEEVE ACTION
Irving Isaac Flasher, St. Paul, Minn.
Application December 7, 1948, Serial No. 63,883
5 Claims. (Cl. 2—115)



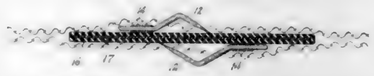
1. A garment of the kind described comprising a body-covering member formed with a cut-out armhole, a sleeve member secured to said body member about the major portion of the edge of said armhole and free therefrom below the armpit providing a ventilating opening, and a substantially triangular flap overlying said opening and having one end secured to one of said members and having the other end secured to the other of said members with the sides of the flap free for admission of air to said opening.

2,532,703
RUG HOLDING MEANS
Jay B. Frazelle, Manhattan Beach, Calif., assignor to Wallace D. Chewning, Santa Monica, Calif.
Application May 19, 1947, Serial No. 749,112
2 Claims. (Cl. 16—8)



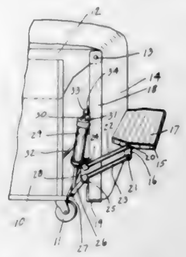
1. A fastening means adapted for use with a rug-holding frame and consisting of a disc-like member of flexible material with an annular flange-like portion adapted to engage the floor, a thin metal member, shaped to form a slideway, secured to said disc-like member and adapted to slidably receive the end portion of a frame member, a prong pivoted at one of its ends to said metal member in a position such that its distal end is adapted to extend into said slideway, said distal end being adapted to be thrust through a rug and be positioned between the end portion of the frame member and said slideway when said frame is in said slideway, whereby to attach said disc-like member and the end of said frame member to the rug.

2,532,704
STAPLE PIN ATTACHING MEANS
Jay B. Frazelle and Wallace D. Chewning, Santa Monica, Calif., said Frazelle assignor to said Chewning
Application November 4, 1947, Serial No. 784,014
4 Claims. (Cl. 16—8)



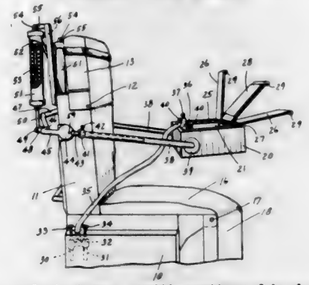
1. A strip of thin spring metal, bowed transversely to normally hold it straight, an attaching prong having its base secured to said metal strip lengthwise thereof, and having its prong bent upwardly and thence downwardly to position the point adjacent the surface of said metal strip, said metal strip being resiliently bendable away from said point to facilitate the insertion of said prong into an article to which said metal strip is to be attached, said strip of metal automatically returning to straight condition adjacent said point as soon as released.

2,532,705
ADJUSTABLE FOOTREST FOR CHAIRS AND INVALID BEDS
Robert R. Freund, Mount Carmel, Ill.
Application July 13, 1946, Serial No. 683,533
4 Claims. (Cl. 5—80)



1. In a foot rest structure for an articulated bed, the combination with a tiltably mounted leg section frame and a foot rest disposed across the same and substantially transverse thereto, of a pair of parallel links pivotally carried at each side of the section frame and pivotally connected to the foot rest, an arm rigid with one link, a cylinder pivotally mounted upon the section frame at the adjacent side thereof, and a piston rod slidable relative to the cylinder and tiltable therewith and pivotally connected to the said arm in spaced relation to the link pivotal support of same, whereby relative sliding movement between said piston rod and said cylinder effects movement of said foot rest relative to said section frame.

2,532,706
ADJUSTABLE LAVATORY FOR ARTICULATED BEDS
Robert R. Freund, Mount Carmel, Ill.
Application October 11, 1946, Serial No. 702,841
5 Claims. (Cl. 5—92)



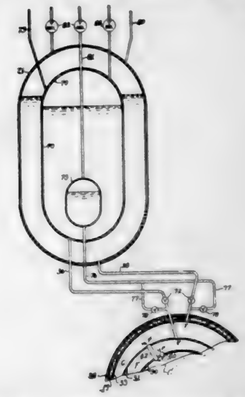
1. In a chair type, multi-sectioned bed including a seat supporting frame having a width at least equal to the width of said bed and a length appreciably less than the over-all length of said bed, a seat section supported by the frame and having a width approximately equal to the width of said frame, and a back section pivoted at one end to said frame, the combination therewith of a head section pivoted upon the back section at the other end thereof and capable of being positioned at opposite sides of the general plane of said back section, a structure having a width approximately that of said seat section and being disposed transversely of said back section, and means at opposite sides of said back section and said structure for pivotally supporting said structure upon said back section, said structure being disposable in foot board relation to the back and head sections when aligned.

2,532,707
METHOD OF PREPARATION OF NEPTUNIUM TRIFLUORIDE
Sherman Fried, Chicago, Ill., and Norman R. Davidson, Sierra Madre, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application August 11, 1947, Serial No. 768,059
12 Claims. (Cl. 23—14.5)

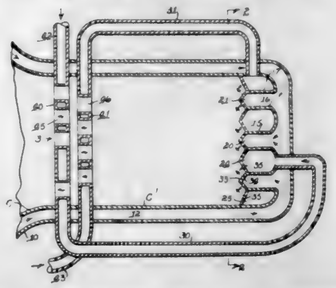
1. The process for the preparation of a fluoride of neptunium comprising contacting a neptunium compound of the group consisting of neptunium oxide, neptunium hydroxide, neptunium oxalate, neptunium nitrate, and neptunyl nitrate, and mixtures thereof with hydrogen fluoride to form a neptunium fluoride and further contacting said neptunium fluoride with hydrogen fluoride and hydrogen to form the trifluoride of neptunium.

2,532,708
SCAVENGING SYSTEM FOR ROCKET MOTORS UTILIZING LIQUID NITROGEN
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Original application November 19, 1940, Serial No. 366,316, now Patent No. 2,396,567, dated March 12, 1946. Divided and this application February 1, 1946, Serial No. 644,847
3 Claims. (Cl. 60—44)

1. In combustion apparatus including a double jacketed combustion chamber, that improvement in feeding apparatus which comprises an outer tank for a low-temperature oxidizing liquid, an inner tank for a low-temperature combustible liquid, feeding connections from said tanks to separate chamber-jacketing spaces, means to control the flow of said liquids to said jacket spaces, feeding connections from said jacket spaces to said combustion chamber, and separate means to supply a low temperature inert liquid to scavenge all of said feeding connections and said jacket spaces after flow of said combustion liquids is discontinued.

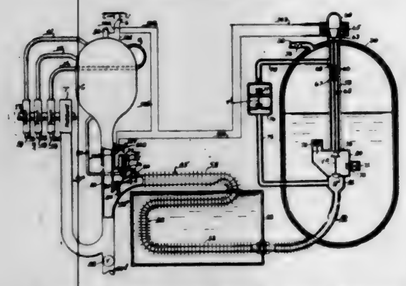


2,532,709
LIQUID COOLED BAFFLES BETWEEN MIXING AND COMBUSTION CHAMBERS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application November 30, 1946, Serial No. 713,311
2 Claims. (Cl. 60—44)



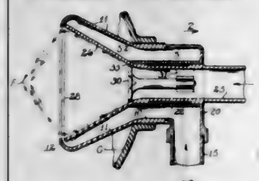
1. In a combustion apparatus, a casing enclosing a combustion chamber and having an extension enclosing a mixing chamber having a closed end, means to feed liquid fuel under pressure and a liquid oxidizer under pressure to said mixing chamber, and hollow liquid-cooled baffle devices positioned between the mixing chamber and the combustion chamber to intercept drops of liquid fuel and liquid oxidizer, each baffle device having a plurality of openings therethrough for passage of combustion gases and mixed combustion vapors and the openings in adjacent parallel baffle devices being staggered and being out of alignment with respect to the path of flow of said gases and vapors.

2,532,710
VAPOR GENERATING AND CONTROL APPARATUS FOR COMBUSTION CHAMBERS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application June 25, 1947, Serial No. 756,865
6 Claims. (Cl. 62—1)



1. A vapor-generating and control apparatus for a combustion chamber comprising a tank of very cold liquid under pressure, a small inner tank, a vapor-generating device connected to said small tank, a receiver for the vapor, a double valve for said small tank which when in raised position permits flow of liquid from said tank to said vapor-generating device, and which when lowered allows said small tank to fill from said large tank, a by-pass connection around said double valve, and a check valve in said connection and opening upward.

2,532,711
EXPANDED CONICAL NOZZLE FOR TWO COMBUSTION LIQUIDS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application March 4, 1948, Serial No. 13,057
5 Claims. (Cl. 60—44)

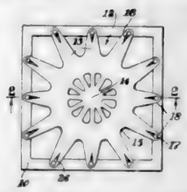


1. In combustion apparatus which includes a combustion chamber, a feeding construction comprising an inner tubular feeding member having a substantially expanded conical inner end portion, means to supply a combustion liquid to said tubular member, a spreader in said tubular member and adjacent the entrance end of said expanding end portion and producing an expanding liquid film covering the inner conical surface of said inner end portion, an outer tubular feeding member having a substantially expanded conical inner end portion with the edge part thereof inwardly displaced and positioned adjacent the inner end of said inner tubular member, said adjacent parts defining an annular feeding slot and said inner and outer tubular members and the conical inner end portions thereof being spaced apart to provide a jacket space, and means to supply a second combustion liquid to said jacket space and to said chamber through said annular slot.

2,532,712
VANE STRUCTURE FOR ROTATING COMBUSTION CHAMBERS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application March 24, 1948, Serial No. 16,865
9 Claims. (Cl. 60—44)

1. A combustion chamber having a rotating wall, a casing enclosing a jacket space for a cooling liquid outside of said wall but adjacent thereto, and a plurality of vanes mounted on said wall and in said jacket space, which vanes assist in circulating said liquid and have their leading faces positioned to provide pockets extending lengthwise of said vanes, and each vane having a plurality of small transverse feed passages extending therethrough near the base thereof, which passages are effective to deliver portions of the cooling liquid to the combustion chamber wall directly at the rear of each vane.

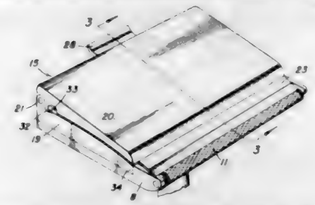
2,532,713
RESILIENT SEAT SUPPORT
Alois Gottfried, Los Angeles, Calif.
Application June 28, 1946, Serial No. 682,116
1 Claim. (Cl. 155—179)



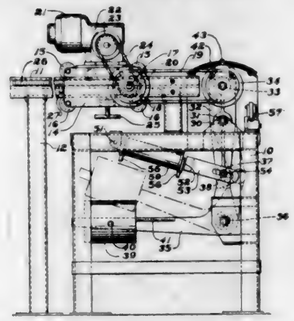
A resilient seat support comprising a flat unitary rubber network structure provided with a plurality of regularly arranged cut-outs arranged so as to form a plurality of radially arranged rubber strips integrally connected to each other at the center of said flat unitary rubber network structure and at least one substantially circular rubber strip arranged concentrically about said center of said flat unitary rubber network structure and integrally connected to said radially arranged rubber strips at their points of intersection, and attaching loop members arranged at the peripheral ends of said rubber strips forming part of the same.

2,532,714
SAFETY RAZOR
Ramon A. Griffin, Oklahoma City, Okla.
Application October 20, 1947, Serial No. 780,873
4 Claims. (Cl. 30—46)

1. A safety razor comprising a flat head, a blade holder mounted for sliding movement on the head and including upper and lower blade clamping plates, means pivotally connecting the rear edges of the plates to each other, catches holding the lower plate in slidably mounted position on the head, and reciprocating means for the blade holder carried by the head, said reciprocating means comprising a roller journaled at the front edge of the head, and a double helix screw having a reversing reciprocating driving engagement with the blade holder and having driving engagement with the roller.



2,532,715
BELT MEASURING MACHINE
Urban C. Haren, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 6, 1947, Serial No. 772,553
4 Claims. (Cl. 33—125)



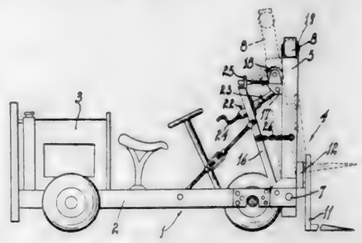
4. Apparatus for measuring the length of an endless belt running under tension, said apparatus comprising driving and driven pulleys for engaging the belt in running relation thereto, a support having a rail, a carriage adjustable along said rail, said carriage having means for supporting and driving said driving pulley, an oscillating lever pivotally mounted on said support, said lever having means for rotatably supporting said driven pulley, a bell crank pivotally mounted on said support, said bell crank having a vertical arm engaging said lever and a horizontal-weighted arm for applying a tensioning load to the belt, and means engageable with said bell-crank lever to lift said weighted arm to relieve the belt from tension and facilitate removal of the belt.

2,532,716
DOUBLE TUBE CORE BARREL FOR CORE DRILLING
Jesse L. Havlick, Spokane, Wash., assignor of forty per cent to Gerben Meidema, Spokane, Wash.
Application November 28, 1947, Serial No. 788,427
5 Claims. (Cl. 255—72)

1. A core barrel comprising a head section for attachment to a hollow drill stem to be rotated thereby, an outer core barrel section fixed to and depending from said head section for rotation therewith, a tubular drill bit depending from the lower end of the outer core barrel section and fixed thereto for drilling a core, an inner core barrel section for receiving said core, means to mount the inner core barrel section on said head section to provide for relative endwise advance and retraction of said outer and inner core barrel sections comprising a bolt depending axially from said head section, and a sleeve fixed to the upper

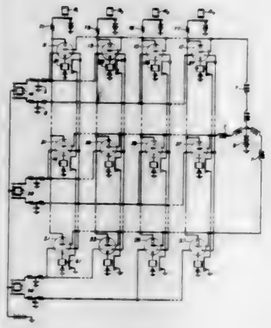
end of the inner core barrel section and slidable and rotatable on said bolt, and an annular core lifter slidably fitted on the lower end of the inner core barrel section and in said bit for sliding off said end and being engageable by the lower end of the outer core barrel section to be thrust downwardly off the inner core barrel section upon advance of said outer section relative to said inner section, said lifter being resilient for contraction in sufficient degree to grip the core in said bit when said lifter is thrust off the inner core barrel section.

2,532,717
PICKUP TRUCK WITH AUTOMATIC TILT
Roe C. Hawkins, Long Beach, Calif.
Application June 24, 1947, Serial No. 756,751
7 Claims. (Cl. 214—113)



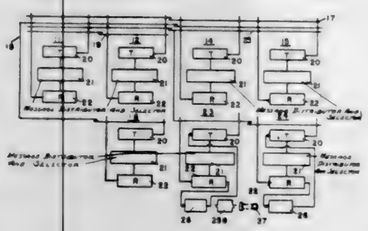
1. An automatic tilting pickup truck comprising, vertically movable and tiltable slides, load fingers mounted in said slides and means attached at one end to the load fingers and at the other end to a stationary part, spaced from the load fingers said attachment to the stationary part being substantially horizontal and spring return means engaging the slides and urging said slides into vertical position.

2,532,718
COORDINATE SELECTING AND LOCKOUT CIRCUIT
George Hecht, Astoria, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 27, 1949, Serial No. 90,001
6 Claims. (Cl. 315—323)



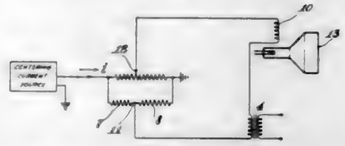
1. In combination, a plurality of gaseous conduction tubes arranged in groups, means for applying discharge initiating potentials to groups of said tubes in rotation, parallel connections between a corresponding electrode of a tube in each of said groups and a common lock-out impedance element to permit a discharge to be established between predetermined elements in only one tube of a group at a time, and circuit means controlled by the establishment of a discharge between said predetermined elements of said tubes.

2,532,719
DIMENSIONAL RADIO COMMUNICATION SYSTEM
John H. Homrighous, Oak Park, Ill.
Application October 16, 1944, Serial No. 558,931
56 Claims. (Cl. 250—9)



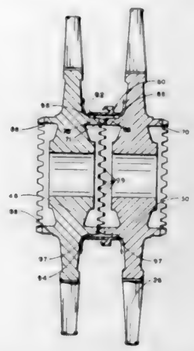
26. In a radio selectve communication system, a group of transmitter receiver stations, means at a first one of said stations to produce a carrier wave capable of reception at all other stations in said group, means at said first station including a member capable of being variably actuated according to the call designation of said stations to individually signal any other station in said group over said carrier wave, and means at said first station including receiver circuits to receive other signals from any station signaled in said group.

2,532,720
CATHODE-RAY TUBE CIRCUIT
Peter Johannes Hubertus Janssen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 29, 1949, Serial No. 102,098
In the Netherlands July 9, 1948
2 Claims. (Cl. 315—27)



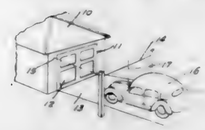
1. A beam centering circuit arrangement for a cathode ray tube having a magnetic deflection coil with a given resistance value, comprising a substantially non-capacitative impedance network constituted by a first resistance element having an adjustable tapping thereon, second and third resistance elements, means intercoupling one end of each of said second and third resistance elements to define a junction and means to couple the other ends of said second and third resistance elements each to respective ends of said first resistance element, means to couple one end of said deflection coil to said adjustable tapping and the other end of said deflection coil to said junction, and means to pass a current through said first resistive element, the resistance value of each of said resistance elements being substantially lower than said given resistance value of said deflection coil.

2,532,721
COOLING TURBINE ROTOR
Andrew Kalitinsky, Eagleville, Conn., and Carl R. Soderberg, Weston, Mass., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application August 23, 1944, Serial No. 550,885
15 Claims. (Cl. 60—41)



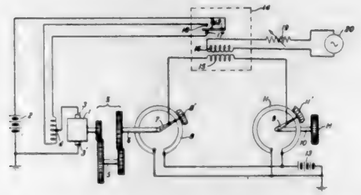
1. A turbine rotor including a number of discs, each having a row of blades thereon, each of said discs having annular side surfaces engaging similar surfaces on adjacent discs, means for introducing gas to the interior of the rotor and passages for escape of gas between said engaging surfaces.

2,532,722
GARAGE DOOR AND A REMOTE CONTROL THEREFOR
John C. Kaytor, Lynwood, Calif.
Application October 22, 1945, Serial No. 623,785
4 Claims. (Cl. 318—266)



1. In combination, a motor, a power relay switch, an electric circuit including the driving motor, the power relay switch and a source of electric energy, a normally open electric control circuit for the power relay including a source of electric energy, a control relay for closing said control circuit, a partial electric operating circuit for said control relay including a fixed contact member, and a mobile source of electric energy including a member to be moved into engagement with said fixed contact whereby a circuit to the control relay will be completed to actuate the same.

2,532,723
SERVOMOTOR CIRCUIT
William A. Knoop, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 10, 1946, Serial No. 702,442
14 Claims. (Cl. 318—29)

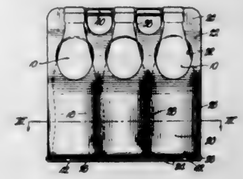


1. A system of apparatus for equalizing in magnitude a derived voltage and a given voltage comprising a first source of voltage, a relay having a magnetic core and provided with a first and a second magnetizing winding, a pair of opposed contacts and an armature reversibly operable therebetween in response to variation in magnetization of the core, means for deriving from the first source a variable voltage, said deriving means including a source of direct current voltage and a direct current motor having a rotor winding and a stator winding, the direct current voltage source being connected between the relay armature and one terminal of the rotor winding while the other terminal thereof is connected to the mid-point of the stator winding of which the terminals are individually connected to the relay contacts, whereby the rotor is driven in a direction reversing with reversal of armature operation, means for establishing in the first winding a current proportional to the difference between the derived and the given voltage thereby varying the magnetization and operating the armature to effect control of the deriving means in the direction to decrease the voltage difference, a second source of voltage, means for applying the second source to the second winding to vary the magnetization in a selected one of two opposite senses and means controlled by the deriving means and controlling the applying means in each direction of rotor driving to select that sense of variation effective to reverse the operation of the armature when the voltage difference becomes zero.

2,532,724
DUAL SEAL CLOSURE
Carroll P. Krupp, Barberton, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 11, 1947, Serial No. 791,076
11 Claims. (Cl. 24—205.1)

1. A sealing closure for adjacent margins, said closure comprising separable fastener elements at said margins for detachably uniting the same, a sealing member at one of said margins having a marginal portion of resilient rubber-like material projecting toward the other margin, said portion presenting a sealing surface and tapering to an edge, and a closing member at said other margin having a pair of marginal portions of said rubber-like material overlying one another in spaced-apart relation and projecting toward said sealing member for closing said margins by an overlapping intercalated relation of all said portions, one marginal portion of said pair having a sealing surface for contact by lip-action with said edge of said sealing member in the closed condition, and the other marginal portion tapering to an edge for contact by lip-action with said sealing surface of said sealing member in said closed condition, the construction and arrangement being such that the edges of said members in said closed condition are each disposed to flex resiliently against the sealing surface of the other member with the directly opposed faces of said members adjacent such edge in spaced-apart relation to one another.

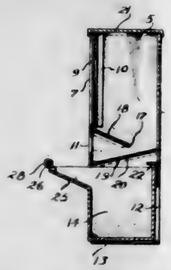
2,532,725
BOTTLE CARRIER
Joseph K. Laier, Kansas City, Mo.
Application October 20, 1947, Serial No. 780,845
1 Claim. (Cl. 224—45)



A sheet metal bottle carrier comprising a pair of opposed, identical sections, each including a bottom wall, a side wall perpendicular to the bottom wall, a top wall extending inwardly and upwardly at an angle from the uppermost edge of the side wall in overlying relationship to said bottom wall, and a partition wall extending upwardly from the uppermost edge of the top wall and disposed within a plane parallel with the side wall and passing through that edge of the bot-

tom wall opposite to the side wall, said walls all being integral, said side wall being undulated to present a number of elongated, side-by-side, concavo-convex bottle-receiving portions, coextensive in length with the height of the side wall; a bottle-receiving opening formed in said top wall for each of said portions respectively; a hinge joining said edges of the bottom walls of the sections, said partition walls being normally in face-to-face engagement and having aligned, hand opening formed therein; and feet on said bottom walls, cooperable with said hinge in supporting the carrier, the feet of one bottom wall being offset with respect to the feet of the other bottom wall whereby said sections are swingable to and from a position with said bottom walls parallel.

2,532,726
BIRD FEEDER
Louis J. Lajoie, Belleville, and Theodore F. Rosinski, Elizabeth, N. J.
Application October 16, 1946, Serial No. 703,570
1 Claim. (Cl. 119—52)

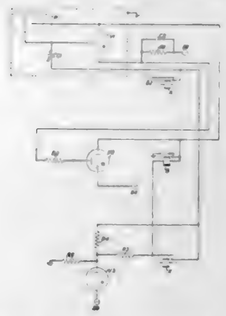


A bird feeder comprising a box-like feed chamber having an open bottom and downwardly extending sides, inturned horizontal flanges on the lower ends of the sides, a tray slidably supported on said flanges for positioning under the bottom of the chamber, a feed opening in one wall of the chamber, a screen supported in the bottom of the chamber above the tray and sloping downwardly toward the opening, a sloping baffle supported in the chamber above the lower edge of the screen to guide feed to the upper end of the screen to sift the feed as it moves toward the opening said baffle and said screen having their side edges received in openings in the sides of the chamber and formed with downwardly extending flanges to hold the baffle and screen stationary in the chamber, and a perch supported on the tray adjacent the opening.

2,532,727
PROCESS FOR OBTAINING VINYL CHLORIDE/STYRENE POLYMERS
Arthur W. Larchar, Mendenhall, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 8, 1947, Serial No. 746,880
2 Claims. (Cl. 260—87.5)

1. A process for obtaining vinyl chloride/styrene polymers which comprises heating at a temperature of from 50° C. to 100° C. in the presence of a polymerization catalyst and under a pressure of at least 3000 atmospheres a mixture of vinyl chloride and styrene in a mole ratio of from 6.5 to 30 moles of vinyl chloride per mole of styrene.

2,532,728
GAS-FILLED TUBE CIRCUIT
Benjamin F. Lewis, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 13, 1949, Serial No. 110,138
7 Claims. (Cl. 315—355)

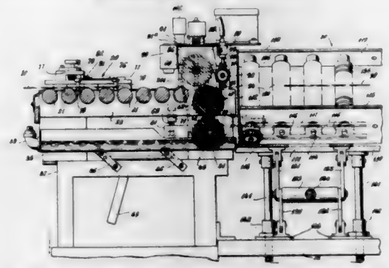


1. An electric circuit comprising in combination a gas-filled tube having a plurality of control electrodes, means for applying detection breakdown potential to said control electrodes, and means including a condenser for applying to said electrodes a priming breakdown potential in advance of said detection breakdown potential.

2,532,729
CANDY CONTAINING NOVELTY
Jacob H. Millstein, Jeannette, Pa.
Application April 14, 1947, Serial No. 741,261
1 Claim. (Cl. 46—11)

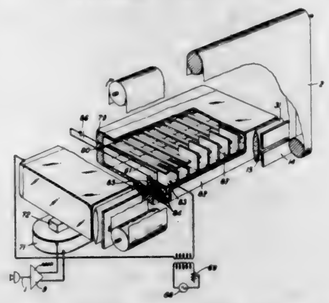
A container novelty for candy and the like comprising a hollow glass form having a body characterized by differently configurated front and rear portions and a neck open at the top and joined to the body by a rounded shoulder portion, and a plastic cap member screw fitting said neck and having differently configurated front and rear portions respectively mating with the front and rear portions of the body and including an apron surrounding said neck, said apron having downwardly extending portions at its front and rear closely engaging said rounded shoulder portion, the said shouldered portion being of greater dimension from front to back than from side to side whereby the apron extensions will firmly grip the bottle when positioned on the front and rear of the shoulder portion the screw fitting between the cap and neck being operative to effect mating of the front and rear portions of the cap with corresponding portions of the body.

2,532,730
APPARATUS FOR COATING PLATES
Ernest Penker, Flushing, and Martin Bulin, Jackson Heights, N. Y., assignors to Etched Products Corporation, Long Island City, N. Y., a corporation of New York
Application October 10, 1947, Serial No. 778,998
8 Claims. (Cl. 91—50)



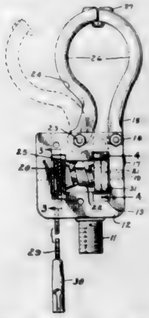
2. In apparatus for applying a coating to the under surface of a sheet of material, a rotatable coating roller arranged to engage such surface and apply a coating thereto; mechanism for feeding the sheet into engagement with said coating roller; and a conveyor for receiving the coated sheet from said roller, said conveyor including longitudinally spaced pairs of sheet supporting rollers, the rollers of each pair being arranged with their axes forming an upwardly opening V bisected by a perpendicular to the center line of the sheet, and engaging only the lower corners of the longitudinal edges of the sheet.

2,532,731
VISUALIZATION OF COMPLEX WAVES
Ralph K. Potter, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 28, 1946, Serial No. 719,017
15 Claims. (Cl. 179—1)



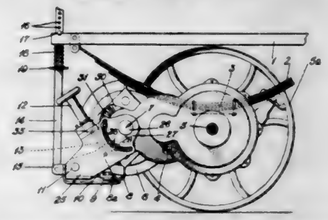
1. In combination, an element having a luminescent surface movable continuously relatively to and transversely of a line extending across the said surface, a multiplicity of light sources, means for directing the light from the several said sources to respectively corresponding parts of said line whereby the light from each of said sources tends to produce a luminous track on the moving luminescent surface, a multiplicity of frequency selective elements responsive to applied waves, said last-mentioned elements being differently responsive to wave energy components in corresponding different parts of the wave frequency range, and means including said selective elements for varying the luminosity of each track under the control of the wave energy components appearing in the corresponding part of the frequency range.

2,532,732
MECHANICAL HAND
Thomas B. Sansbury, Orlando, Fla.
Application February 6, 1948, Serial No. 6,741
4 Claims. (Cl. 3—12)



1. In an artificial hand, a body, an article-gripping arm immovably fixed to said body, a second arm pivotally mounted intermediate its ends on said body and movable toward and from the fixed arm, said second arm having an outwardly extending article-gripping portion and a second portion extending inwardly of said body, an operating screw extending transversely of said body, a nose on the second portion of said second arm directly engaging said screw, said screw being elongated and of less diameter in its center than at its ends and presenting a concavely arcuate pitch surface, and means to rotate said screw in each direction.

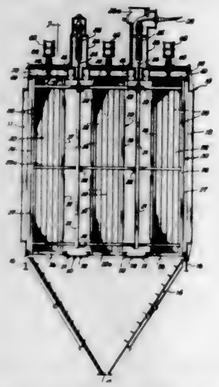
2,532,733
LAWN MOWER
Edmund Rossiter Sawtelle, Shawnee-on-Delaware, Pa., assignor to Worthington Mower Company, Stroudsburg, Pa., a corporation of Delaware
Application August 23, 1946, Serial No. 692,445
2 Claims. (Cl. 56—249)



1. A heavy duty mower of the type comprising a generally horizontal draft frame and a pair of ground wheels connected thereto, wherein: a side member is mounted rotatably on the axis of rotation of each wheel adjacent thereto, a fly-knife reel is mounted between the side members on an axis spaced from and parallel to the wheel axis, a bracket is mounted on each side member rotatably about the reel axis, each side member and respective bracket being provided with a broad face, the said broad faces being held in a selected position of juxtaposition by fastening means, a second bracket pivoted at one end to

each of said brackets on an axis spaced from and parallel to the reel axis, a bed knife attached to the other end of said second bracket, a screw means acting on the intermediate portion of said member for movement of the bed-knife radially of the reel, a rod adjustably attached at one end to the frame of the mower and at the other end pivotally attached to the brackets for moving the side members, brackets, bed knife, and reel as a unit about the wheel axis for selecting the height of the reel above the ground.

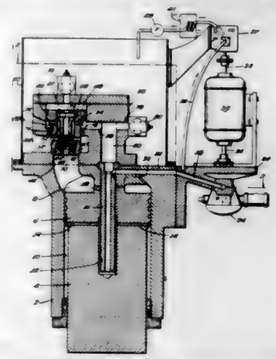
2,532,734
ELECTRODE CONSTRUCTION FOR ELECTRICAL PRECIPITATORS
Walter Malcolm Schmidt, Los Angeles, Calif., assignor to Western Precipitation Corporation, Los Angeles, Calif., a corporation of California
Application March 22, 1948, Serial No. 16,244
6 Claims. (Cl. 183—7)



1. A collecting electrode structure for an electrical precipitator comprising: a flexible sheet-like member; a rigid hanger attached across the top edge of the flexible member and adapted to suspend the flexible member; a vertically extending guide at each vertical edge of the flexible member loosely restraining the flexible member against horizontal movement but permitting relative vertical movement; and supporting means for supporting the guides independently of the hanger.

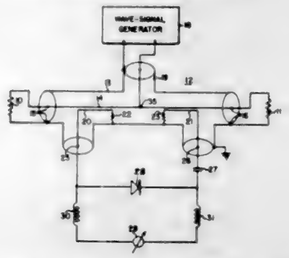
2,532,735
HYDRAULIC PRESS WITH AUXILIARY PUMP IN COOLING BY-PASS
Robert K. Sedgwick, Oak Park, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 6, 1949, Serial No. 91,839
3 Claims. (Cl. 60—52)

3. In an hydraulic circuit for an hydraulic motor having advance and pullback chamber means containing ram means, said circuit comprising valve means having an opening area acted on by fluid pressure in the advance chamber means and having a closing area acted on by fluid pressure in the pullback chamber means, said valve means being adapted when open to connect an associated reservoir of low pressure fluid to the pullback chamber means and being adapted when closed to cut off communication between the reservoir and the pullback chamber means, a reversible pump with opposite sides thereof connected to respective chamber means, and a motor operatively connected to the pump for driving the same, a second pump connected to the motor, the suction side of the second pump having a connection to the pullback chamber means, and a connection between the second pump and said circuit



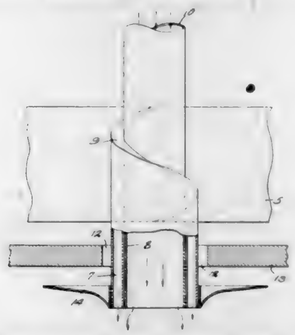
independent of the pullback chamber means, and means for treating fluid flowing through the second pump, the combined suction rates of said pumps being no greater than that at which fluid is delivered thereto by said valve means when open.

2,532,736
ARRANGEMENT FOR COMPARING ELECTRICAL CHARACTERISTICS
Charles B. Sheppard, Cheltenham, Pa., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application August 21, 1946, Serial No. 692,073
8 Claims. (Cl. 175—183)



1. An arrangement for comparing, at high frequencies, electrical characteristics of two elements comprising: a wave guide; coupling means by which said elements may be coupled to said wave guide at spaced points thereon; means for supplying high frequency wave signals to said wave guide, at a point equidistant said spaced points, to supply high frequency wave signals to said elements; individual directional coupling means coupled to said wave guide in corresponding relationships between individual ones of said spaced points and said equidistant point and responsive to reflected high frequency wave signals traveling along said wave guide between individual ones of said spaced points and said equidistant point but only in a direction away from said first-mentioned coupling means for deriving wave signals having electrical characteristics dependent on said electrical characteristics of said two elements; and means responsive jointly to said last-mentioned wave signals for obtaining a comparison of said electrical characteristics of said elements.

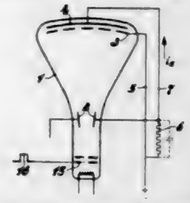
2,532,737
AIR SUPPLY OUTLET
Robert Simpson, Morro Bay, Calif.
Application November 22, 1946, Serial No. 711,597
3 Claims. (Cl. 98—40)



1. In combination with an air supply duct for supplying new air to a room, an air supply outlet including an outer shell having an inlet opening from the duct and an outlet opening into the room, said outer shell being extended through an aperture in the ceiling of the room and being spaced a substantial distance from the edge of said aperture, said outer shell being free of connections to said ceiling to define an open space surrounding the outer shell and communicating between the room interior and the area above the room ceiling, thus to lead stratified air otherwise tending to collect against the ceiling from the room into said area, the outlet opening being in a plane parallel to and substantially lower than the plane of the room ceiling; an inner shell in the outer shell and having a discharge opening in substantially the same plane as the outlet opening of the outer shell; said shells being cylindrical and concentric to define an annular passage for new air surrounding the inner shell; and a flange surrounding and projecting laterally from the outer shell, said flange being spaced wholly from the ceiling and being free of engagement with the ceiling to provide a shield preventing inter-mixing of air issuing from the shells with stratified air to be led from the room.

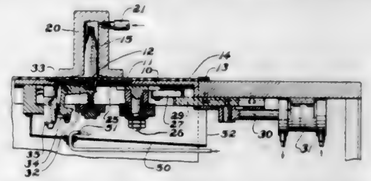
2,532,738
ARRANGEMENT COMPRISING A CATHODE-RAY TUBE HAVING MEANS FOR DEFLECTING THE CATHODE-RAY BEAM
Willem Six and Johan Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 17, 1949, Serial No. 76,924
In the Netherlands March 20, 1948
2 Claims. (Cl. 315—21)

1. An electrical circuit arrangement, comprising an electron discharge tube having in the order named a source of an electron beam of given electron density, deflecting means adapted to shift the position of said beam, a first collecting electrode and a second collecting electrode, an output circuit comprising an impedance element coupled to said second collecting electrode, means to derive a control voltage from said impedance element and to apply said control voltage to said deflecting means thereby to cause said beam to impinge on said first and second collecting electrodes, and means to vary the current distribution between said first and second collecting electrodes comprising means to apply



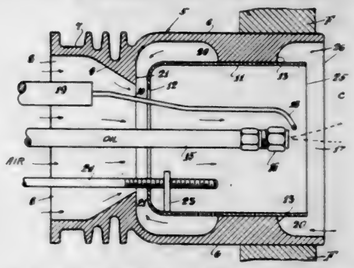
a signal voltage pulse to said source thereby to vary the electron density of said beam for a time interval equal to the duration of said pulse.

2,532,739
FORMING APERTURES IN ELASTIC ARTICLES
Frank Slusher, Carpinteria, Calif., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 24, 1947, Serial No. 763,282
6 Claims. (Cl. 164—41)



1. Apparatus for forming an aperture in the wall of an elastic article in communication with a tubular valve stem attached to the wall thereof, said apparatus comprising a support having an aperture therethrough, means for applying pressure to the portion of the wall surrounded by the valve stem to distend the elastic wall of the article through said aperture, and means for removing the distended portion from the article to provide an aperture therein.

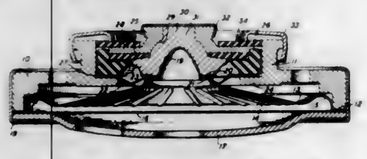
2,532,740
FUEL BURNER PROVIDED WITH COMBUSTION GAS RECIRCULATING MEANS
William H. Speer, Moosup, Conn.
Application February 10, 1948, Serial No. 7,370
4 Claims. (Cl. 158—76)



1. A fuel burner adapted to project a flame into the combustion chamber of a furnace comprising a forward member having an outer wall adapted to fit into the furnace wall and formed with a nozzle chamber and with a rear air supply opening, a fuel nozzle at the forward portion of said chamber adapted to atomize a liquid fuel supply and direct the atomized jet into the com-

bustion chamber, a rear conduit providing a fresh air supply flowing through said opening forward into the rear air supply opening of said nozzle chamber, an inward directed wall member around said rear air supply opening, and a liner spaced from said outer wall surrounding said fuel nozzle to provide a passage and having a rear wall cooperating with said inward directed wall to form an inward directed passage opening into said air supply at the rear of said nozzle chamber to feed auxiliary gases into said air supply on the way to said nozzle, said passage leading from the combustion chamber to said inward directed passage for withdrawing gases from said chamber and leading said withdrawn gases into said inward directed passage for blending with the said air flow on its way to the nozzle.

2,532,741
MICROPHONE WITH OPPOSITE ELECTRODES BEING OF VARYING AND CONSTANT CURVATURE
Ralph R. Stevens, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1947, Serial No. 783,239
8 Claims. (Cl. 179—122)

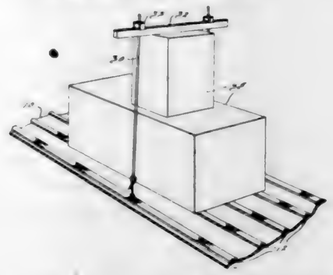


1. A telephone transmitter including a pair of electrodes having opposed surfaces bounding a chamber, comminuted resistance-varying material in the chamber and means for vibrating one of the electrodes relatively to the other, the opposed electrodes being respectively convex and concave toward the other and shaped in accordance with different geometrical formulae having different points of origin to provide a spacing between the opposed surfaces which varies continuously thereover in any phase of vibration of the one electrode.

2,532,742
CUSHION HEEL
Stephen Stoiner, Cleveland, Ohio
Application February 17, 1949, Serial No. 76,968
5 Claims. (Cl. 36—35)

1. In combination, a shoe having a main heel, and an outer heel fixed thereto, said outer heel including a resilient member of substantial thickness, a hollowed out portion, having sides and a bottom, in said resilient member of less depth than the thickness of said outer heel, a separate resilient cushioning member of greater thickness than the depth of said hollowed out portion seated in the opening in said portion in contact with the said main heel and the bottom of said portion, and a confined air space between the cushioning member and the bottom of the hollowed out portion aforesaid.

2,532,743
WEAR STRIP AND FLOOR RING
Harold A. Storch, Pontiac, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application December 22, 1945, Serial No. 636,922
14 Claims. (Cl. 248—361)

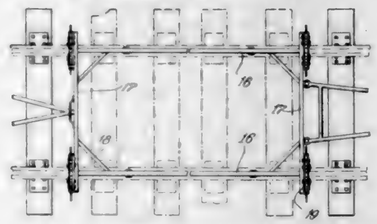


5. A combined wear strip and hold-down element for cargo compartments and the like, comprising an elongated strip member having a substantially continuous top web and a plurality of supporting walls spaced from one another and extending longitudinally therebeneath, said top web having depressed portions defining a pocket lying between said walls, and fastening means located in said pocket and attached to said walls.

2,532,744
DIAZOTYPE CONTAINING AS THE AZO COMPONENT A QUATERNARY SALT OF 2-METHYL - 6 - METHOXY - BENZOSELENAZOLE
James M. Straley, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 4, 1945, Serial No. 603,253
1 Claim. (Cl. 95—6)

A light-sensitive diazotype photoprinting material comprising a suitable base carrying a light-sensitive layer containing a light-sensitive diazo derivative of a p-diamino compound of the benzene series and as an azo coupling component a quaternary salt of 2-methyl-6-methoxy-benzoselenazole.

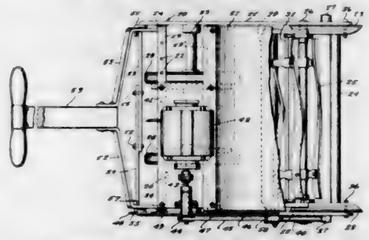
2,532,745
TRACK GAUGING APPARATUS
Edwin M. Thornley, Bloomington, Ill.
Application May 19, 1945, Serial No. 594,747
6 Claims. (Cl. 254—43)



6. Gaging apparatus for accurately positioning one rail of track with respect to the other rail while the apparatus is moving along the rails, including at least three gage bars, means for moving the gage bars in tandem along the track each perpendicular to the track and with a spacing between the last two appropriate for a worker

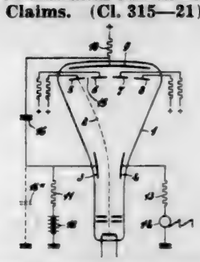
to walk between the rails while driving rail spikes between the gage bars as the gage bars are moved along the track, two pairs of rollers carried by each gage bar, with the pairs on each bar spaced apart to engage the two rails of one track and with a first roller of each pair positively positioned on the gage bar and accurately spaced from the similarly positioned roller of the other pair on said bar, the second roller of each pair being firmly positioned to move the rail to within a predetermined proximity of the first roller, as the apparatus is moved along, to bring the rails to a predetermined spacing with a predetermined degree of accuracy.

2,532,746
FRAME FOR MODIFYING LAWN MOWERS
Ross J. Turman, Medford, Oreg.
Application August 20, 1948, Serial No. 45,247
2 Claims. (Cl. 56—26)



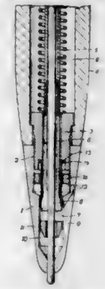
2. An attachment for a standard lawnmower including a rotatable shaft carrying a cutting reel, said attachment comprising a frame including a pair of longitudinally extending side frame members arranged in parallel spaced relation with respect to each other, at least two spaced saddle members positioned transversely of said side frame members intermediate the ends thereof and fixedly secured to said side frame members, a stub shaft on one end of each of said side frame members, a dust cap carried by each of said stub shafts, said dust caps being arranged in spaced opposed relation with respect to each other, and means provided on said dust cap for rotatably receiving said shaft carrying the cutting reel.

2,532,747
CIRCUIT ARRANGEMENT COMPRISING A CATHODE-RAY TUBE
Zeger van Gelder and Adrianus Johannes Wilhelmus Marie van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 11, 1949, Serial No. 75,916
In the Netherlands March 16, 1948
4 Claims. (Cl. 315—21)



1. An electrical circuit arrangement, comprising a discharge tube having a source of an electron beam, a plurality of collecting electrodes spaced apart and spaced from said source, means to deflect said beam and an electrode member having conductive portions arranged in the path of said beam between the spacings of said collecting electrodes, means to apply a signal of given phase to said deflecting means to deflect said beam in a given direction and with a given velocity thereby to cause said beam to impinge successively on said collecting electrodes and said conductive portions, and means to accelerate the deflection of said beam between adjacent of said collecting electrodes comprising an impedance element intercoupling said electrode member and said deflecting means and applying an auxiliary signal voltage to said deflecting means in the same phase as said given phase.

2,532,748
PUSH-CAP OPERATED PENCIL
Vójtěch Votruba, Ceske Budejovice, Czechoslovakia, assignor to Koh-I-Noor L. & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia
Application August 24, 1949, Serial No. 112,123
In Czechoslovakia September 14, 1948
2 Claims. (Cl. 120—17)

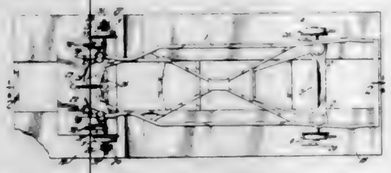


1. A push-cap operated pencil, comprising: a casing, a slotted hollow tip at the front end of the casing, the internal cavity of the tip terminating in a frusto-conical portion at its front end, a gripper longitudinally displaceable in the casing and capable of gripping an axially movable pencil lead, releasable squeezing means controlling the gripper, a thrust ring, externally frusto-conical at its forward end, longitudinally displaceable within the tip before the front end of the gripper, and means for pushing forward the gripper, and thereby releasing it from the squeezing means and impelling the thrust ring forward into the conical end of the cavity in the tip and thus splaying open the tip and allowing the lead to slide freely through the tip and the gripper under the action of gravity.

2,532,749
CASTER AND CAMBER CHECKING EQUIPMENT
Cecil C. Aurand, Cranford, and Constant H. Watrous, North Plainfield, N. J., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 16, 1947, Serial No. 748,418
5 Claims. (Cl. 73—432)

1. In the manufacture of automobiles, apparatus for the setting of front wheel kingpin inclination for correct caster and camber adjustment as soon as front and rear wheel structures are subassembled on the chassis frame and before chassis supported units are completely assembled therewith including means to support

the rear of a given chassis frame subassembly at a predetermined height, means to support the front wheel structure at a given height in relation to the first mentioned means so that the frame extends in selected fore and aft level when the front springs are compressed in simu-



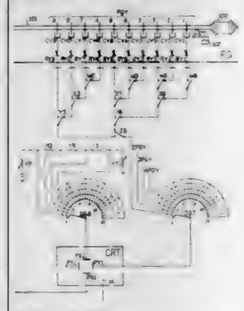
lation of curb loading, and mechanism operable to compress the front springs in simulation of curb loading and thereby enable kingpin inclination to be gauged and set to predetermined standards specified for curb loading of a completely assembled automobile.

2,532,750

CALLING LINE IDENTIFIER HAVING DISPLAY DEVICE AT OPERATOR'S POSITION

George Thomas Baker, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company

Application June 13, 1947, Serial No. 754,562
In Great Britain August 3, 1946
5 Claims. (Cl. 179—27)



1. In a line identification system, a line, means for transmitting signals representative of the digits forming the numerical designation of said line, a receiving arrangement for receiving said signals, control means responsive to the operation of said receiving arrangement, registering means for each of said digits, a display device and means operative by said control means for connecting the registering means for one digit to said receiving arrangements and for simultaneously causing the display of the preceding digit on said display device under the control of the registering means for such digit.

2,532,751

HIGHLY CORRECTED OBJECTIVE HAVING TWO INNER DIVERGENT MENISCUS COMPONENTS BETWEEN COLLECTIVE COMPONENTS

James G. Baker, Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn., a corporation of New York

Application September 29, 1949, Serial No. 118,627
8 Claims. (Cl. 88—57)

1. An optical objective made of glass components throughout and corrected for coma, astigmatism, field curvature, distortion, chromatic aberration, and both axial and oblique spherical aberrations, which comprises a pair of meniscus components each of net dispersive effect lying concave to each other at opposite ends of a central air space and a plurality of collective components disposed at opposite ends of the meniscus components, the length of the air space and the axial thicknesses of the meniscus components being such that the geometrical axial distance λ between the outside convex vertices

F=1000 f/2

LENS	No.	ν	RADII	SPACINGS AND THICKNESSES
I	1.617	55.0	R_1 = 0.578	t_1 = 0.088
			R_2 = 1.896	S_1 = 0.005
II	1.611	57.2	R_3 = 0.381	t_2 = 0.125
III	1.605	38.9	R_4 = plano	t_3 = 0.038
			R_5 = 0.216	S_2 = 0.282
IV	1.605	38.0	R_6 = −0.272	t_4 = 0.038
V	1.620	60.3	R_7 = plano	t_5 = 0.109
			R_8 = −0.352	S_3 = 0.003
VI	1.620	60.3	R_9 = 5.902	t_6 = 0.069
			R_{10} = −0.835	

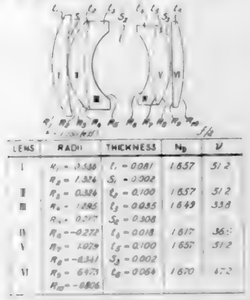
of the meniscus components ranges from 0.5 F and 0.65 F, F being the equivalent focal length of the objective, the objective being further characterized in that T′ ranges between 0.1λ and 0.4λ, T″ ranges between 0.1λ and 0.325λ, R_5 ranges between 0.31λ and 0.45λ, and R_6 ranges between 0.31λ and 0.50λ, T′ and T″ being, respectively, the axial thicknesses of the first (long conjugate side) and the second meniscus components, R_5 and R_6 being, respectively, the radii of the inner concave surfaces of the first and second meniscus components, and the radii being considered to be of positive algebraic sign.

2,532,752

HIGHLY CORRECTED FOUR COMPONENT OBJECTIVE LENS

James G. Baker, Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn., a corporation of New York

Application September 29, 1949, Serial No. 118,628
8 Claims. (Cl. 88—57)



LENS	RADII	THICKNESS	N_D	V
I	r_1 = 3.588	t_1 = 0.081	1.657	51.2
	R_2 = 1.374	S_1 = 0.002		
II	R_3 = 0.384	t_2 = 0.100	1.657	51.2
III	R_4 = 1.285	t_3 = 0.035	1.649	33.8
	R_5 = 0.297	S_2 = 0.308		
IV	R_6 = −0.277	t_4 = 0.018	1.617	36.6
V	R_7 = 1.029	t_5 = 0.100	1.657	51.2
	R_8 = −0.341	S_3 = 0.002		
VI	R_9 = 0.473	t_6 = 0.069	1.670	47.2
	R_{10} = −0.806			

1. An optical objective made of glass components throughout and corrected for coma, field curvature, distortion, and chromatic aberration and having greatly reduced oblique spherical aberration and astigmatism at points far off-axis together with an unusually perfected state of correction of zonal spherical aberration, which comprises a pair of meniscus components each of net dispersive effect lying concave to each other at opposite ends of a central air space and a plurality of collective components disposed at opposite ends of the meniscus components, the length of the air space and the axial thicknesses of the meniscus components being such that the geometrical axial distance λ between the outside convex vertices of the meniscus components lies between 0.5F and 0.65F, F being the equivalent focal length of the objective, the objective being further characterized in that

T′ ranges between 0.1λ and 0.4λ
T″ ranges between 0.1λ and 0.325λ
R_5 ranges between 0.31λ and 0.50λ
R_5 ranges from 0.75R_6 to 0.95R_6,
The value of the ratio R_8/λ is less than 1.00,
The value of the ratio R_{10}/λ is less than 5.00 and less than 5 times the value of the ratio R_8/λ, and
The value of the expression

$$\frac{R_{10}}{\lambda}+1.192\frac{R_8}{\lambda}-2.542\frac{R_8}{\lambda}\cdot\frac{R_{10}}{\lambda}$$

is less than 0,

T′ being the thickness of the first (long conjugate side) meniscus component, T″ being the thickness of the second meniscus component, R_5 being the radius of the concave inner surface of the first meniscus component, R_6 being the radius of the concave inner surface of the second meniscus component, R_8 being the radius of the outermost convex surface of the second meniscus component, and R_{10} being the radius of the last surface of the system, all values of the radii being considered to be of positive algebraic sign.

2,532,753

TRANSONIC AIRFOIL DESIGN

Ward W. Beman, Glendale, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application July 5, 1947, Serial No. 759,020
4 Claims. (Cl. 244—40)

1. A high speed airfoil having a dominant basic section, and one or more depressions in the surfaces of the airfoil within the profile of said basic section, said depressions being generally triangular in shape and having one side, parallel to the line of airflow over the airfoil, forming a relatively abrupt ridge, another side being formed by the trailing edge of the airfoil and the third side gradually merging into the basic airfoil section in a line diagonally disposed relative to the line of airflow over said airfoil, said diagonally disposed line being so disposed as to predetermine the crest of the compressibility shock wave formed at transonic airflow speeds.

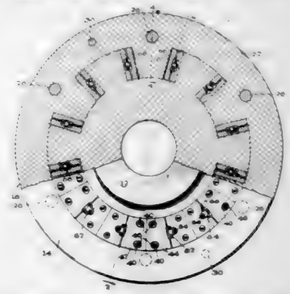
2,532,754

ADJUSTABLE COUPLING

Bartlett A. Beck, Sr., Portsmouth, Va.

Application October 15, 1948, Serial No. 54,639
7 Claims. (Cl. 64—23)

1. In a jaw type coupling having a pair of coaxial members with intermeshed teeth arranged in driving relation, gibs mounted on the opposite faces of the teeth of one of said members, each of said gibs being formed to provide an outturned channel extending axially thereof, means adjustably securing the channeled gibs to the respective teeth for adjustment of each channel perpendicularly to the plane of the tooth face on which it is mounted, other gibs mounted on the opposite faces of the teeth of the other of said members, and an extended ball bearing assembly detach-



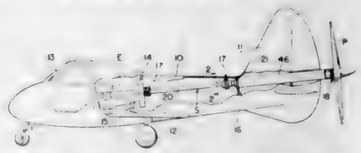
ably mounted axially in the outer side of each of said other gibs and constructed and arranged for engagement of the ball bearings with the channels of the gibs on the teeth of the said one member.

2,532,755

AIRCRAFT PROPELLER DRIVE

John J. Bloomfield, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application February 21, 1946, Serial No. 649,339
8 Claims. (Cl. 244—65)



1. In an airplane having a fuselage and an empennage the combination of, an engine mounted in the fuselage, a propeller spaced to the rear of the empennage, a drive shaft coupled with the engine and extending to the propeller to drive the same, a tubular member spaced around the shaft and having its forward portion in the fuselage, the member passing freely through the empennage to adjacent the propeller, means fixedly securing the forward portion of said member in the fuselage so that the member constitutes a cantilever, and thrust bearing means for the shaft carried by the rear portion of the member.

2,532,756

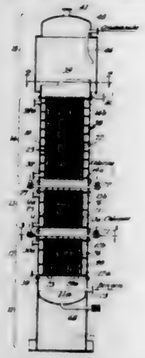
TOWER REACTOR

Austin S. Brunjes, Plandome, N. Y., and Marcel J. P. Bogart, Teaneck, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application February 20, 1946, Serial No. 649,060
2 Claims. (Cl. 23—288)

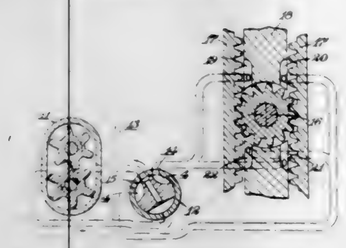
1. Apparatus for conducting a reaction between a liquid and a gas, comprising an elongated vertically extending shell, vertically spaced transverse partitions dividing said shell into a plurality of superposed chambers, the lowermost one of said chambers forming a feed chamber for a liquid reactant, the chamber immediately above it forming a reaction chamber and the remaining chambers forming secondary reaction chambers and a vapor-disengaging chamber above the uppermost one of the reaction chambers, vertically extending transversely spaced

tubes within each of said reaction chambers and fixed in the partitions forming the upper and lower ends of the chamber, a support in each of said tubes for a fixed bed of catalyst, a gas delivery manifold above the tubes of the lowermost reaction chamber, a plurality of gas-distributing conduits, substantially smaller than the reaction tubes, leading from said manifold and extending into the upper ends of the respective reaction



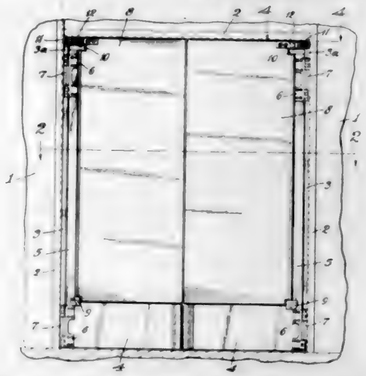
tubes and downwardly along a major portion of the length thereof and opening thereinto, the tubes of the lowermost reaction chamber opening into the feed chamber to receive the liquid reactant therefrom, and means to pass a cooling medium in contact with the exterior of the tubes within each reaction chamber the intermediate adjacent ends of the tubes being in liquid communication.

2,532,757
DIFFERENTIAL GEAR FOR MOTOR VEHICLES OR THE LIKE
Archibald James Butterworth, Camberley, England
Application October 8, 1945, Serial No. 621,117
In Great Britain October 9, 1944
8 Claims. (Cl. 74—710.5)



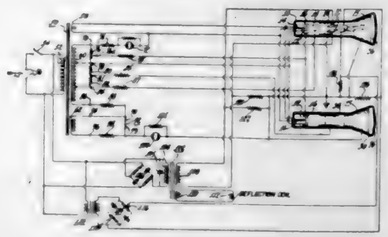
1. A differential gear comprising in combination a rotatable casing substantially filled with oil and acting as a planet carrier, a planet pinion mounted in and enclosed within said casing, gear wheels meshing with said planet pinion and enclosed within said casing, a shroud member closely approaching the teeth of said gear wheels and planet pinion and providing two isolated chambers one on each side of the point of engagement of the pinion with a gear wheel, means to force an oil circulation from chamber to chamber by way of the meshing teeth to rotate the planet pinion about its own axis, thereby effecting the differential drive on the gear wheels, and means to reverse the direction of oil circulation.

2,532,758
DOOR
George Wallace Carr, Chicago, Ill.
Application February 16, 1946, Serial No. 648,094
7 Claims. (Cl. 160—188)



1. In a door construction, a door member comprising relatively movable upper and lower panel members, means mounting said lower panel member for swinging movement about a vertical axis adjacent to the rear edge of said door member, means mounting said upper panel member for swinging movement with the lower panel member about said vertical axis and for swinging movement relative to said lower panel member about a second axis adjacent to and substantially parallel to said vertical axis, said panel members extending radially from their respective axes in substantially the same direction when the door member is in closed position, said upper panel member projecting from said second axis substantially the full width of the door member and extending upwardly above said lower panel to substantially the full height of the door member, and motion transmission means operatively connected between a fixed support and said second panel member for swinging said second panel member about said second axis in response to and in the same direction as swinging movement of the first panel member about said first axis.

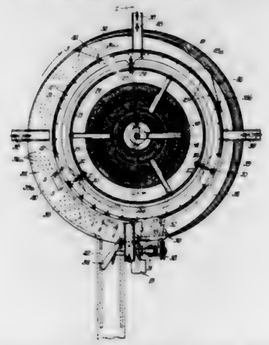
2,532,759
CATHODE-RAY TUBE TESTER
Ralph S. Coate, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1949, Serial No. 118,911
7 Claims. (Cl. 315—365)



1. An alternating current apparatus for testing cathode ray tubes of the type including an anode and a cathode for generating an electron

beam, an electrode for controlling the intensity of said beam, and means for deflecting said beam, said apparatus comprising a pair of input terminals adapted to be connected to a source of alternating voltage, a transformer having a primary winding connected to said input terminals and a secondary winding having output terminals, circuit means to connect one of said output terminals to said cathode and another of said output terminals to said anode to apply between said anode and cathode an alternating voltage derived from said source, a phase shifting network connected to said input terminals, and means to connect said network to said beam deflecting means to furnish to said deflecting means an alternating voltage shifted in phase with respect to the voltage between said anode and said cathode.

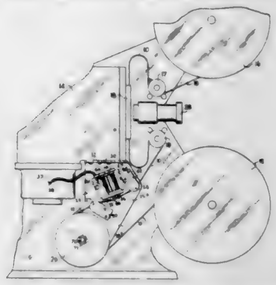
2,532,760
ARRANGING AND FEEDING APPARATUS
Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application July 10, 1944, Serial No. 544,305
14 Claims. (Cl. 209—72)



10. Apparatus for arranging and feeding closure caps or similar articles of predetermined size and form comprising, in combination, a circular wall disposed in a sloping position so that the intended articles may slide down it, means for rotating said wall about its center in the plane of its inclination, means for depositing articles on an upper portion of the wall for sliding movement down it, means associated with the downwardly moving side of the wall to provide a selecting passage for reception of caps from the wall, and a directing strip disposed close to the same side of the wall in the path of caps moving downwardly on it, said directing strip extending in a generally horizontal direction and being of less height than the caps.

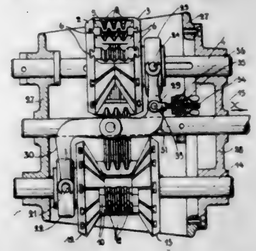
2,532,761
MAGNETIC RECORDER ADAPTER FOR MOTION-PICTURE PROJECTORS
Conrad G. De Blasio, Red Bank, N. J.
Application February 10, 1947, Serial No. 727,516
3 Claims. (Cl. 179—100.2)

1. A sound film adaptor for a motion picture projector having load and take-up reels for guiding the normal course of running film, said adaptor comprising a support for connection to said projector, a magnetic pick-up formed with an air gap mounted on said support and adapted to translate magnetic variations upon film running through the projector, and guide roller means effectively interposed between the load reel and take-up reel of the projector and operative to divert said film from a normal course between said reels to a position of coaction with said magnetic pick-up whereby said film may be restored to said normal course after such coaction has been effected, said guide roller means



comprising a pair of rollers each disposed on respective sides of said magnetic pick-up and immediately adjacent thereto and so as to act against opposite sides of the running film whereby the film may be tensioned against said air gap, said rollers and magnetic pick-up all being tensioned against successive portions of the film which are substantially continuous.

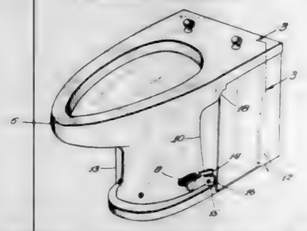
2,532,762
SPEED VARIATOR
Emile Deletaille, Woluwe-St. Pierre, Belgium
Application January 28, 1947, Serial No. 724,813
In Belgium March 22, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 22, 1963
4 Claims. (Cl. 74—230.17)



2. A speed variator comprising a driving shaft, a first pair of coaxial conical discs at a variable mutual distance mounted on said driving shaft so as to be driven in rotation by the latter, a second pair of coaxial conical discs at a variable mutual distance, a driven shaft parallel to the driving shaft and which is driven in rotation by said second pair of discs, a flexible band passing from one pair of discs to the other for transmitting the rotation of the driving shaft to the driven one, arms located on the opposite sides of the flexible band, means for connecting said arms to the adjacent conical discs in such a manner as to displace the latter along their shaft if said arms are displaced parallel to the latter, a pivoting lever with which said arms are integral and the pivot of which is movable in a direction parallel to the shafts, said pivot being moreover situated at the same distance from said shafts and at the same distance from the points of connection of said arms to the adjacent conical

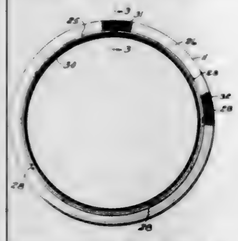
discs, means for displacing said pivot in a direction parallel to the shafts, a threaded rod pivoted with respect to said lever, and a nut in which this threaded rod is engaged, this nut being mounted so that it can be rotated about its axis but that it is axially immovable with respect to said pivot.

2,532,763
SHIELDED WATER CLOSET
Sven Duner, Chicago, Ill., assignor to Duner Company, Chicago, Ill., a corporation of Illinois
Application November 22, 1946, Serial No. 711,556
2 Claims. (Cl. 4—8)



1. A sanitary, easily cleaned, water closet hopper for railway cars and the like, consisting of: a water closet bowl having integrally formed therein two substantially vertical offsets and two horizontal offsets, said vertical offsets being respectively positioned opposite one another in the sides of said bowl in the front portions thereof, said horizontal offsets being respectively positioned opposite one another in the sides of said bowl in the upper portions thereof and extending rearwardly from the upper limits of said vertical offsets; a dump pan to empty said bowl during the flushing operation; operating mechanism coacting with said dump pan positioned about the rear portion of said bowl; a foot lever actuating said operating mechanism and extending outwardly therefrom; two support brackets rearwise of said vertical offsets, on opposite sides of said bowl; two formed metallic shields on opposite sides of said bowl abutted against the corresponding offsets, one of said shields secured to its corresponding bracket, the other of said shields having an opening formed therein through which said foot lever extends; and a closure plate positioned beneath said foot lever, said other shield clamped between its corresponding bracket and said closure plate.

2,532,764
SEPARABLE TIRE RIM
Louis J. Ebert, Little Valley, N. Y.
Application March 4, 1948, Serial No. 12,988
2 Claims. (Cl. 152—412)

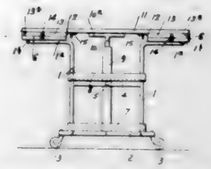


1. A separable rim of the type described comprising a section adapted to be fixed to the brake drum of an automobile to support a tire and tube and a section removably connected to the first section to retain the tire on the first section, said first section having a centrally located concavo-convex portion to receive the tube therein and an annular receiving portion secured at its inner periphery to the bottom surface of said last mentioned portion to form an annular slot which is adapted to receive the second section, pins carried by the first section and hook shaped slots formed in the second section, which are adjusted to engage said pins to retain said sections in fixed yet removable relation to each other and relatively spaced and opposed knurled surfaces on said second section to provide gripping surfaces for said second section.

2,532,765
COPYHOLDER
Edward L. Elliott, Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C., a corporation of Delaware
Application August 13, 1946, Serial No. 690,187
6 Claims. (Cl. 120—29)

1. In a copy holder comprising a copy holding unit and an upright plate for supporting the same in vertical operative position or in horizontal inoperative position, a stud projecting from the back of the copy holding unit, spaced terminal slots in said plate providing abutments for limiting movement of the stud and positioning the same with the copy holding unit in a selected position, and means carried by said stud and bearing on said upright plate for securing the copy holding unit thereto.

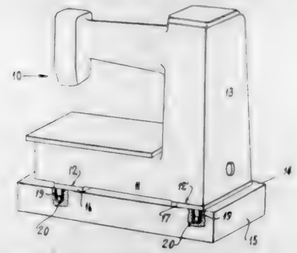
2,532,766
CONVERTIBLE TABLE WITH VERTICALLY ADJUSTABLE MECHANISM
Paul François Galleret, Le Havre, France
Application November 14, 1947, Serial No. 785,923
In France July 10, 1947
2 Claims. (Cl. 311—35)



1. A transformable table comprising a frame, a vertical tube mounted centrally in said frame, a vertical shaft rotatably and slidably mounted in said vertical tube, a horizontal rectangular board

mounted on the upper end of said vertical shaft, and two fixed horizontal panels mounted on said frame and on opposite sides of said vertical tube for selectively supporting said board, said panels being spaced the width of said rectangular board for selectively receiving said board therebetween, said board may rest upon said panels or be turned through an angle of 90° on said vertical shaft and lowered, with said vertical shaft sliding in said vertical tube, to fit between said panels in the same horizontal plane.

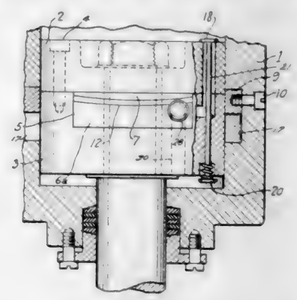
2,532,767
VIBRATION ABSORBING MOUNTING FOR SEWING MACHINES
Joseph Galkin, New York, N. Y.
Application July 7, 1948, Serial No. 37,413
4 Claims. (Cl. 248—22)



1. A resilient mounting for a sewing machine mounted on a supporting table having openings in rectangular formation, comprising two mounting connections positioned transversely of said sewing machine between the sewing machine base and the table to absorb the inherent sewing machine vibrations and limit its transmission to the table, said table having openings at each corner of said sewing machine base, said mounting connections being interposed between said sewing machine and table at opposite ends of said sewing machine base, each of said mountings comprising an elongated body of rectangular cross-section and two laterally extending tubular elastic projections at the respective ends thereof, said projections fitting closely into said openings in said table, each of said flexible mountings comprising elongated body portions and being made of elastic deformable material adapted to be initially compressed all along said elongated body portions due to the weight of said sewing machine to cushion small vibrations of said machine solely by said body portions without effecting said projections while large vibrations are absorbed jointly by said body portions and by said elastic projections.

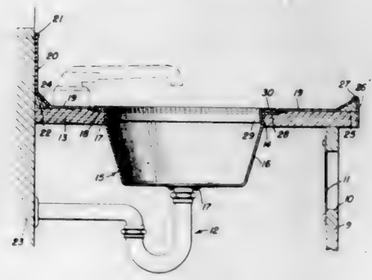
2,532,768
PISTON LOCK
Folke Halward, Detroit, Mich.
Application April 17, 1948, Serial No. 21,672
7 Claims. (Cl. 121—40)

1. A pressure fluid servo-motor having in combination, a cylinder, a piston reciprocating in the cylinder and means for locking the piston at one end of its stroke comprising a pressure chamber on the piston and a locking block forced out of the piston by fluid pressure admitted to said chamber into engagement with the wall structure of the cylinder when the piston has reached the limit of its motion, a valve located in the piston guarding a passageway into the piston and to the chamber containing said block, the said valve automatically tripped when the piston reaches the limit of its movement to allow fluid pressure to flow into the chamber to throw the



block out into engagement with the wall structure of the cylinder.

2,532,769
KITCHEN SINK AND CABINET COMBINED
Jesse M. Houpt, Sioux City, Iowa
Application October 4, 1948, Serial No. 52,726
2 Claims. (Cl. 4—187)



1. In a structure of the class described, a pan-like sink including a body portion, the mouth part of said body portion being formed into an annular collar adapted to fit into an opening in a supporting board, said collar having an outstanding circumferentially extending supporting flange, and a ring press-fitted into said collar and provided with a flange coacting with the first-named flange.

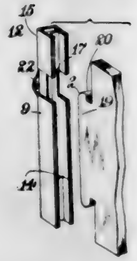
2,532,770
ASSEMBLY OF ELECTRIC EXPLOSION INITIATORS
Daniel D. Huyett, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application May 10, 1946, Serial No. 668,979
9 Claims. (Cl. 86—1)

1. A process for making a plug and leg wire assembly for electric explosion initiators which comprises providing a rubber-like plug having a bore smaller than the diameter of a flexible leg wire, expanding said bore with a hollow needle, the hollow portion of which is large enough to contain said leg wire, providing that said leg wire extends in said hollow needle sufficiently far that it also extends through said plug, then holding said plug and said leg wire stationary relative to one another, and moving said plug and said needle relative to one another and in the same relative

direction as was employed in expanding said bore whereby the passage of said needle through said

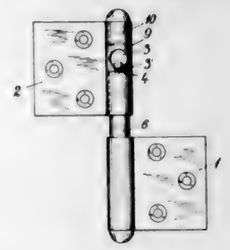
plug is completed and said plug bore shrinks and grips said leg wire.

2,532,771
LOOSE-LEAF BINDER
Louis William Johnstone, Warlingham, and Charles Edward Gilbert, Chipstead, England, assignors to Bernard Bercovitz, Toronto, Ontario, Canada
Application April 10, 1946, Serial No. 660,954
In Great Britain February 8, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1965
2 Claims. (Cl. 129—18)



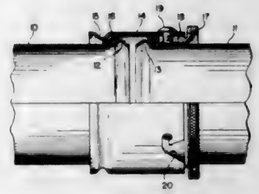
1. A binder adapted to retain a plurality of sheets having along one side thereof at least one tongue undercut to provide overhanging portions on each side thereof, which binder comprises an inner channel-shaped member having its side flanges partially cut away at each end, a channelled filling piece arranged in the cutaway portion at one end of said inner channel-shaped member, the back of said channelled filling piece forming a web extending between the cutaway flanges of said inner channel-shaped member at said end and spaced from the back wall thereof, an outer channel-shaped member embracing said inner channel-shaped member and said channelled filling piece and extending short of the cutaway portion at the other end of said inner channel-shaped member, said outer channel-shaped member serving to hold said channelled filler piece in the cutaway portion of said inner channel-shaped member, and a sliding channel-shaped member comprising inner and outer channels, said inner channel being so secured to said outer channel that the back wall of said inner channel is spaced away from the back wall of said outer channel and forms a web extending between the flanges of said outer channel whereby said sliding channel-shaped member is adapted to slidably engage the cutaway portion of said inner channel-shaped member at said other end.

2,532,772
ADJUSTABLE HINGE
Nils Rudolf Kamfjord, Notteroy, Norway
Application January 7, 1947, Serial No. 720,505
In Norway January 22, 1946
7 Claims. (Cl. 16—133)



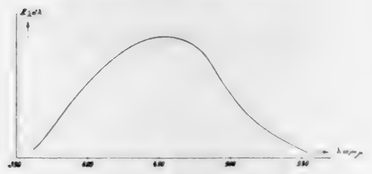
4. An adjustable hinge comprising a pair of cooperating leaf members vertically mounted one above the other, the top leaf member provided with a socket having an end wall and the bottom leaf member provided with a pintle for insertion in said socket, and an adjusting member within said socket in bearing relation between said end wall and the end of said pintle, said socket having an aperture in the longitudinal wall thereof for insertion of said adjusting member.

2,532,773
QUICK-DISCONNECT DUCT JOINT
Arthur M. Kellam, Tujunga, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application August 15, 1947, Serial No. 768,783
5 Claims. (Cl. 285—193)



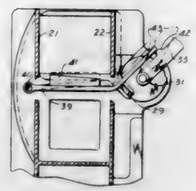
1. A flexible quick-disconnect coupling for joints in fluid ducts or the like wherein the adjacent duct ends are provided with peripheral beads, said coupling comprising a sleeve telescoping over one of the duct ends, said sleeve having an inturned bead disposed on the duct side of the duct bead, an O ring disposed between the duct bead and the sleeve bead, a collar slidably carried by the other duct on the duct side of the duct bead, an O ring disposed between said collar and its duct bead, and means for releasably engaging said collar to sleeve to couple the ducts together.

2,532,774
MAGNESIUM SILICATE TITANATE PHOSPHOR
Ferdinand Anne Kröger and Jan Broos, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 16, 1946, Serial No. 641,594
In the Netherlands July 22, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 22, 1962
5 Claims. (Cl. 252—301.4)



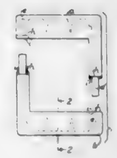
1. A crystalline fluorescent material consisting of the fired reaction product of magnesium oxide, silicon dioxide, and titanium dioxide, said constituent oxides being present in the ratios in gram molecules $Z:(Y+Z)$ between about 1 : 1000 to about 4 : 10 and $X:(Y+Z)$ between about 14 : 10 to about 25 : 100 wherein X represents the magnesium oxide constituent, Y represents the silicon dioxide constituent and Z represents the titanium dioxide constituent.

2,532,775
SLIDE CHANGER FOR PROJECTORS
John E. Leonard, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application January 18, 1946, Serial No. 642,070
7 Claims. (Cl. 88—28)



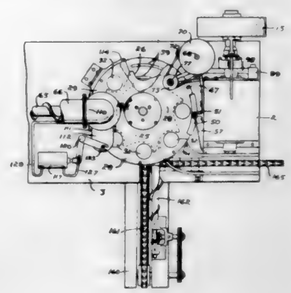
3. In a photographic slide changer, the combination of a magazine for a supply of slides, means for urging said slides along said magazine, a shuttle and a pivot therefor, said shuttle being swingable about said pivot to and from positions in one of which it receives slides from the magazine and another of which it thereafter presents them at a projector gate for projection, means for feeding one slide only at a time to the shuttle including a restraining lip projecting into the pathway of said slides and having a top surface inclined downwardly toward the shuttle so that a slide raised to clear the lip will tend to move down said inclined surface into the shuttle, and means engageable with a single slide only adjacent the lip, for elevating it to clear the lip whereupon, under influence of said means for urging the slides along the magazine, that slide will be moved onto the lip from which it will slide down said inclined surface to enter the shuttle.

2,532,776
DIAPOSITIVE FRAME
Georg Linser, Innsbruck, Austria
Application February 26, 1948, Serial No. 11,190
In Germany April 26, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires April 26, 1960
4 Claims. (Cl. 40—152)



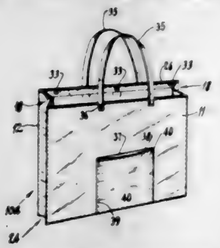
1. A diapositive frame preferably for holding together two covering panes with a film between them, comprising two elements in the form of frame members each having interengaging means to assemble the two elements by displacement in the plane of the frame, each element having a U-shaped groove in cross-section opening inwardly of the frame to hold the film and panes in position, the U-shaped grooves each having spaced guide stops in the form of ribs therein with each stop having a wedge surface so formed that they will press the two panes against the film to hold the latter tightly in the frame when the two elements are assembled.

2,532,777
MACHINE FOR FILLING CANS WITH PASTE HAVING A PLUNGER WITH PASTE SUCTION RELIEF BLADES
Horatio Watson MacKinnon, Vancouver, British Columbia, Canada, assignor to John F. Latta, Vancouver, British Columbia, Canada
Application March 29, 1947, Serial No. 738,082
4 Claims. (Cl. 226—97)



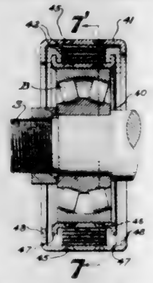
3. In a paste filling machine having open ended measuring pockets adapted to be filled with material and to be moved along a path with a container held in adjusted position at an open end of each pocket, a plunger adapted for reciprocatory movement to enter each of said pockets progressively and to thrust the contained material into its container, and means associated with the plunger to substantially clean the plunger to prevent the withdrawal of material from the container, said means consisting of a member mounted on the thrust face of said plunger, and means for moving the member to sweep said face as the plunger is withdrawn.

2,532,778
SHOPPING BAG
Louis Mintzes, Island Park, N. Y.
Application February 24, 1948, Serial No. 10,340
2 Claims. (Cl. 150—1.7)



1. In a shopping bag comprising front and rear pliable rectangular side walls, one of said side walls having a rectangular pocket externally thereof and secured to said side wall near the bottom of said bag, said front and rear side walls being foldable into superposed relation with said pocket to a size less than the entrance to said pocket, said bag in said folded form being refoldable into a rectangular form slightly smaller than the cross-sectional area of said pocket, whereby when said pocket is turned inside out said folded bag is insertible into said pocket and may be tucked therein with the soiled outer surface of said bag concealed inside said pocket, thereby providing a package having outer surfaces sufficiently clean to be suitable for carrying in a handbag or the like.

2,532,779
MOUNTING STRUCTURE FOR BEARINGS
Walter J. Parks, Aurora, Ohio
Application October 2, 1947, Serial No. 777,420
13 Claims. (Cl. 308—15)

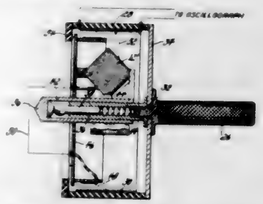


1. A bearing structure for mounting a bearing in a housing comprising an outer cylindrical member, an inner cylindrical member and a multiplicity of individual laminae consisting of thin plate-like elements between the inner and outer cylindrical members in compressed relationship having substantial surface to surface contact between the laminae, said laminae being slideable axially relative to one another to permit some axial movement while at the same time maintaining the structure substantially rigid radially.

2,532,780
PAINTBRUSH
Gilbert S. Pettengill, Ridley Park, Pa.
Application May 13, 1946, Serial No. 669,322
7 Claims. (Cl. 15—171)

1. A brush handle comprising a shank terminating in a head, said head comprising side surfaces each formed of a short skirt and end arcuate surfaces extending axially of the shank beyond the edges of the skirt, said end arcuate surfaces terminating in inturned flanges having supporting surfaces spaced from the edges of the skirt, and a block mounted on the flanges and in close proximity to the edges of said skirt said block being formed of material capable of receiving and gripping driven nails.

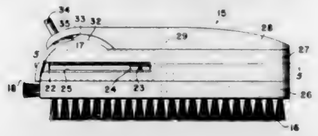
2,532,781
TORSIONAL VIBRATION PICKUP
Ludvig Petersen, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 21, 1944, Serial No. 532,184
3 Claims. (Cl. 73—68)



3. A device for measuring the rotational vibration of a rotating shaft including, a casing, a rotatable member mounted in said casing with freedom of rotary movement and means on the casing for holding the rotatable member in mechanical contact with and rotate with said shaft, a four cornered piezo-electric crystal secured at three corners to said rotatable member with a fourth corner free to flex under inertia force caused by angular acceleration and deceleration of said shaft to thereby produce an electrical signal an electric meter capable of measuring electrical output of said crystal and means on the casing and rotatable member respectively for electrically connecting said meter to said crystal to measure the electrical signal produced by said crystal and thereby indicate the torsional vibration of said shaft.

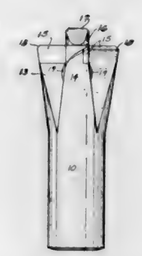
2,532,782
VALVED PASTE EJECTOR
Dana Peterson, Newton, Mass.
Application March 5, 1947, Serial No. 732,396
2 Claims. (Cl. 222—387)

1. A paste feeding device having a handle comprising a bottom piece, an intermediate piece resting upon the bottom piece and having a recess, a paste container disposed in the recess and having an element adapted to apply pressure to the paste within the container and cause its extrusion from one end of the container, said intermediate piece further having a rounded top cam surface, a top piece having a rounded recess conforming in shape to the rounded surface on the intermediate piece and a vertically extending slot extending upwardly from the recess to the



upper surface of the top piece, a cut off slide for the paste adjustable over the rounded surface of the intermediate piece and fitted in the recess of the top piece and adapted to be extended downwardly over the extrusion end of the paste container to sever the extruded paste therefrom, a handle on the slide extending upwardly through the recess in the top piece, and means for securing together the bottom, intermediate and top pieces.

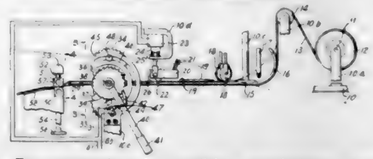
2,532,783
SELF-PILOTED ROTARY DRILL BIT
Orville Phipps, near Denver, Colo.
Application September 30, 1946, Serial No. 700,314
1 Claim. (Cl. 255—61)



In a self-piloted, rotary drill bit having a generally-cylindrical body of tractable metal detachably mountable as a coaxial terminal extension on the working end of a power-rotatable drill string and like, integral, angularly-spaced fingers similarly radiating from a common end central area of said body to constitute a working face perpendicular to the body axis, a bit pilot member comprising a cylindrical plug of hard, tough, abrasive-resistant alloy material fixedly socket-seated in said common end central area coaxially of said body and to project axially outwardly beyond the body working face, a cutting edge diametrically of the plug free end, and insert blocks of alloy material fixedly recess-seated in the rotationally-leading faces of said fingers to conformably intersect outer side and working face end margins of the fingers with the rotationally-leading corners of said blocks tangent to the cylindrical surface of said plug and spaced at their inner ends therefrom, whereby to effectively arm the bit working elements with wear-resistant material arranged for repetitious rehabilitation in the field through simple grinding applied to the bit assembly.

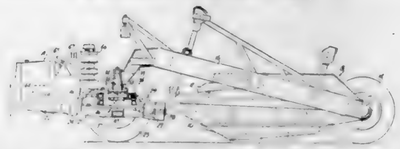
641 O. G.—14

2,532,784
BAGMAKING MACHINE
Herbert L. Reitzes, Philadelphia, Pa., assignor to Globe Products Heat Seal Corporation, Los Angeles, Calif., a corporation of California
Application April 30, 1946, Serial No. 666,063
3 Claims. (Cl. 93—18)



1. In apparatus for making containers from a flat continuous strip of material, means for forming the material into a flat tube with overlapping edges, heat sealing means for longitudinally sealing the strip material into a flat tube, said heat sealing means including a heating roller for engagement with said tube at said edges, members for positioning said roller including a solenoid for urging said roller in one direction and a spring for urging said roller in the opposite direction, manually operable means for advancing the strip material with respect to said forming means and said longitudinal heat sealing means, and a member controlled by the manually operable means at one position for energizing said solenoid.

2,532,785
HYDRAULIC ACTUATED STEERING FOR MOTOR-POWERED VEHICLES
John E. Richter, San Jose, Calif., assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif., a corporation of Nevada
Application September 20, 1949, Serial No. 116,723
6 Claims. (Cl. 180—79.2)



1. In a vehicle of the character described, a motor-powered tractor unit including a main frame, a trailer unit having a forward frame extension, an upright kingpin journaled to said extension, a pivotal connection between the lower end of the kingpin and the frame of the tractor for oscillating movement of the tractor about a horizontal axis extending longitudinally of the tractor, a ring-like member rotatably mounted upon the tractor and concentric with the kingpin axis, a steering arm pivotally attached to the frame extension for vertical movements about a transverse horizontal axis intersecting and at right angles to the kingpin axis, means forming a pivotal connection between the free end of the steering arm and said ring-like member, and means for applying steering forces between said member and the frame of the tractor.

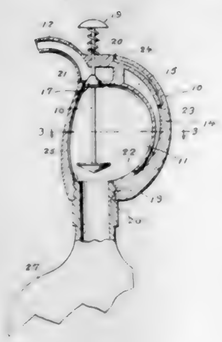
2,532,786
HYDRAULIC ACTUATED STEERING FOR MOTOR-POWERED VEHICLES
John E. Richter, San Jose, Calif., assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif., a corporation of Nevada
Application September 20, 1949, Serial No. 116,724
3 Claims. (Cl. 180—79.2)

1. In a vehicle of the character described, a motor-powered tractor unit having a main frame,

a trailer unit having a forward frame extension, an upright kingpin journaled to said extension, a pivotal connection between the lower end of the kingpin and the frame of the tractor for oscillating movement of the tractor about a horizontal axis longitudinal of the tractor frame, a ring gear rotatably mounted upon the tractor frame and concentric with the kingpin axis, a steering

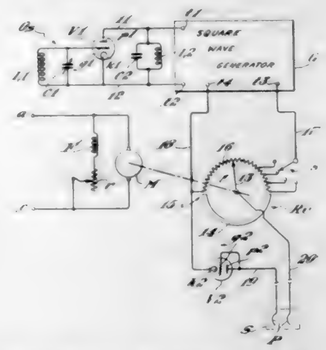
arm pivotally attached to the frame extension for vertical movements about a lateral horizontal axis which intersects and is at right angles to the kingpin axis, means forming a pivotal connection between the free end of the steering arm and said ring gear, a gear rack engaging the teeth of the ring gear, and means mounted upon the tractor frame for reciprocating said gear rack.

2,532,787
BOTTLE ATTACHMENT FOR MEASURING DOSES BY TIPPING
Charles J. Romyns, Franklin, N. J., assignor of one-half to Charles J. Fletcher, Franklin, N. J.
Application September 16, 1947, Serial No. 774,221
3 Claims. (Cl. 222—453)



1. In a measuring dispenser, a comparatively small casing having a compartment therein with a spout at one end and means attaching the casing to a bottle or the like at the other, a valve stem aligned with the bottle attaching means having a valve member on the end thereof adapted to close against the end of a bottle to which the casing is attached, said valve stem having another valve member adapted to close against a valve seat in the end of the casing carrying the spout, said valve stem projecting beyond the end of the casing and having a button thereon, a spring between the button and casing urging the valve stem outward to close the valve adjacent the spout, said casing having a leakage chamber therein extended from a point near the spout to a point in the compartment of the casing bypassing the valve adjacent the spout and means admitting air to the interior of the casing through the said leakage chamber.

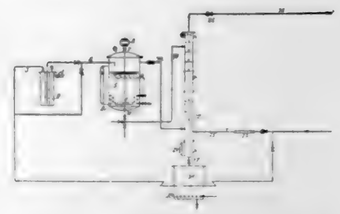
2,532,788
ARTIFICIAL RESPIRATION BY ELECTRONIC STIMULATION
Stanley J. Sarnoff, Boston, Mass.
Application August 20, 1949, Serial No. 111,424
7 Claims. (Cl. 128—421)



1. The method of artificially inducing respiration which comprises applying to the nerve trunk controlling respiration of an individual a cyclically varying electric potential which during each cycle rises to a point above the threshold value of nerve stimulation of the individual and then falls substantially to or below said value and remains substantially at or below said value for a portion of the cycle to permit exhalation.

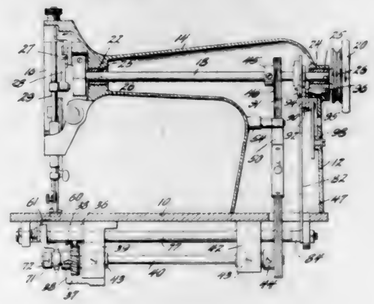
5. Apparatus for artificially inducing respiration which comprises an electric circuit, means in said circuit for supplying for application to a nerve trunk of an individual, a cyclically varying potential which during each cycle rises to a peak above the threshold value of nerve stimulation of the individual and then falls substantially to or below said value, said means including a generator and a regulator to vary the rate of said cyclic variation, and means in said circuit for varying the length of the potential-rising portion of each cycle independently of the length of the cycle.

2,532,789
MANUFACTURE OF CARBON BLACK
Jean Adolphe Schaeffer, Colombes, France, assignor to Compagnie Francaise de Raffinage (Societe Anonyme), Paris, France, a French corporation
Application May 31, 1946, Serial No. 673,448
In France June 7, 1945
3 Claims. (Cl. 23—209.6)



1. In a process for producing carbon black from combustible gas enriched with anthracenic and the like heavy aromatic products, the step of enriching the combustible gas which comprises preheating said anthracenic products to a temperature of about 180° C. to liquefy said products, intimately contacting said liquid products with a current of said combustible gas maintained at a temperature of the order of 350° C. to 400° C. and at a pressure of at least about 4 pounds per square inch, and causing said gas after contact with said liquid product to expand to a pressure slightly above atmospheric, thereby stabilizing the enriched gas and leading the thus enriched gas under the latter pressure to the burners for producing the carbon black.

2,532,790
SEWING MACHINE
Bernard A. Schmitt, Chicago, Ill.
Application August 6, 1945, Serial No. 609,115
3 Claims. (Cl. 112—210)



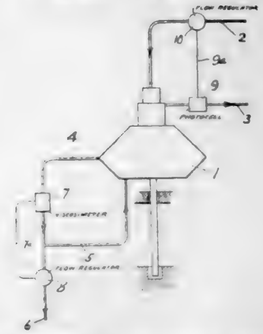
1. In a sewing machine having a bed plate, a rotary main shaft, a feed shaft pivoted beneath the bed plate, means to oscillate said feed shaft comprising a cam driven by the main shaft, a connecting rod pivoted to an arm on said feed shaft and having a follower head cooperating with said cam, parallel follower surfaces parallel to the axis of said connecting rod and a link for guiding the movement of said rod pivoted to said head and having an elongated fulcrum pin at its opposite end, the improvement comprising a second link articulated to said fulcrum, a fixed pivot for the opposite end of said second link, and a frictionally held manual means slidably engageable with said elongated pin to adjust the position of said fulcrum to adjust the stitch length.

2,532,791
MECHANICAL PENCIL WITH SCREW FEED AND HOPPER TYPE MAGAZINE
Blanchard D. Smith, Atlanta, Ga., assignor to Scripto, Inc., Atlanta, Ga., a corporation of Georgia
Application October 18, 1946, Serial No. 704,098
19 Claims. (Cl. 120—18)

1. A pencil having a magazine chamber comprising a barrel member, a member rotatable relatively thereto, a lead-propelling element, thread and slot means coactive between the driving element and the two members to hold the propelling element to a helical movement relative to one of the members and to longitudinal movement relative to the other, and coacting means to remove the lead-propelling element from its lead-propelling position beyond a predetermined point and into the magazine when moving in one direction and for restoring it to its lead-propelling position at a predetermined

point and while in the magazine chamber when moving in the opposite direction.

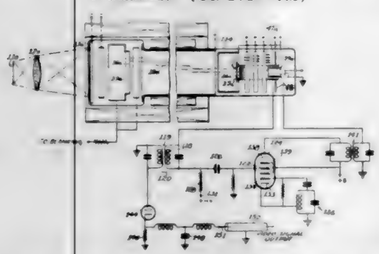
2,532,792
PROCESS FOR THE CENTRIFUGAL SEPARATION OF SLUDGE-CONTAINING LIQUIDS
Nils Edvin Svensjö, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application April 13, 1946, Serial No. 661,997
In Sweden April 18, 1945
2 Claims. (Cl. 233—14)



2. In the process of separating solids from a mixture of solids and liquid, by continuously feeding the mixture into a locus of centrifugal force to separate the same into a purified liquid and a sludge-containing concentrate, continuously discharging said separated liquid and concentrate from the locus in separate streams, and continuously withdrawing from the concentrate discharge stream a part of the concentrate and returning said part to the locus, the improvement which comprises controlling from a region beyond the point of said withdrawal, reckoned in the direction of flow, the rate of flow of the concentrate discharge stream to regulate the rate of said return of the concentrate discharge, by increasing the rate of flow at said region in response to an increase in the viscosity of the concentrate discharge, and decreasing the rate of flow at said region in response to a decrease in the viscosity of the concentrate discharge, whereby the viscosity of the concentrate discharge is maintained approximately constant, and in which said changes in the rate of flow at said region

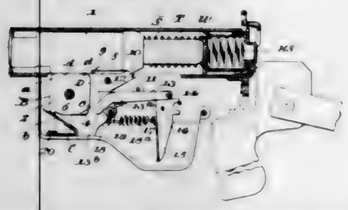
of the concentrate discharge stream are effected in response to variations in the viscosity as determined at a part of said last stream between said locus and the point of withdrawal of the return concentrate.

2,532,793
REFLEX AMPLIFICATION UTILIZING CAMERA TUBE
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1944, Serial No. 570,664
7 Claims. (Cl. 178—7.2)



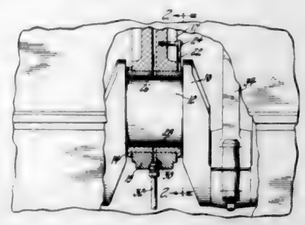
5. An image signal generating system employing a cathode ray beam camera tube having an electron multiplying arrangement, a target of the electrostatic charge storage type, means for projecting an electron beam toward the target, means to cause the beam to scan the target and thereby to be modulated in accordance with electrostatic charges representative of an optical image, means to return the modulated beam to the electron multiplying arrangement for amplification, the electron multiplying arrangement serving as a means to amplify the output image signals, means to produce a high frequency signal, means to modulate the output image signals on the high frequency signal, means to modulate said scanning beam with the modulated high frequency signal so that the electron multiplying arrangement serves to amplify the modulated high frequency signal, and detector means to recover the output image signals from the high frequency signal.

2,532,794
AUTOMATIC CONTROL FOR BURST FIRING
Cecil Auburn Selwyn Teece, Barton, Canberra, Australia
Application March 27, 1946, Serial No. 657,383
In Australia April 5, 1945
10 Claims. (Cl. 89—149)



3. In an automatic firearm, the combination with a reciprocating action and a trigger mechanism, of a device for controlling continuous firing comprising a control member having a perimeter constituted by at least three substantially straight edges and provided with an abutment face at or near each corner, and with a laterally projecting striker adjacent its perimeter, said control member being rotatably mounted about an axis extending in a plane normal to the axis of said reciprocating action, said action being provided with a shoulder for engagement with said abutment faces, whereby during a burst of continuous firing the control member will be intermittently turned by the reciprocating action until such striker is caused to engage said trigger mechanism and restore it to a condition to arrest continuous fire, said edges of the control member being successively brought into lineal contact with said action immediately after each turning motion of the control member in order to maintain the latter stationary pending its next turning motion, and means for biasing said control member so as to initially turn the same into operative position in relation to said action after said action has completed each forward movement thereof.

2,532,795
BEARING
Arthur F. Underwood, Grosse Pointe, and John M. Stone, Grosse Pointe Park, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 23, 1945, Serial No. 630,162
4 Claims. (Cl. 308—9)

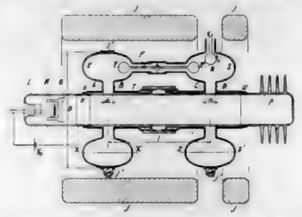


1. A rotating shaft, means for applying force to the rotating shaft constantly changing in circumferential direction as the shaft rotates, a floating bearing for said shaft, a stationary support for said floating bearing, cooperating members carried by said bearing and stationary support for holding said floating bearing against rotation with said shaft while allowing the bearing to float in said stationary support and means for supplying oil while the shaft is rotating to the clearance space between the floating bearing and support and to the clearance space between the shaft and floating bearing.

2,532,796
VELOCITY MODULATION ELECTRONIC VALVE
Robert Warnecke and Marthe Lortie, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application August 2, 1946, Serial No. 688,153
In France December 18, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires December 18, 1960
4 Claims. (Cl. 250—27.5)

1. A velocity modulation tube comprising an elongated cylindrical envelope having electrodes therein, a pair of cavity resonators concentrically surrounding said envelope, coupling means interconnecting said cavity resonators and concentrically surrounding said envelope, means adjusting the effective length of said coupling and selecting the spatial relation of said cavity resonators, and

means spaced from said elongated cylindrical envelope and disposed in substantially parallel

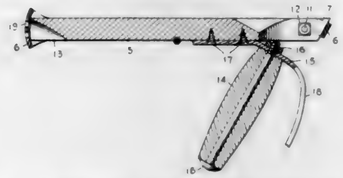


relation thereto and interconnecting said cavity resonators.

2,532,797
QUICK-DRIVING GLAZIER'S POINT
Eugene Weissman, Libertytown, Md.
Application July 17, 1945, Serial No. 605,569
1 Claim. (Cl. 85—15)

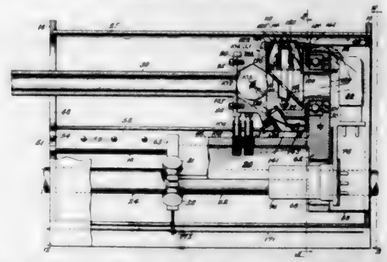
In a glazier's point, a rigid unit that consists entirely of front and rear pairs of plane thin outer-edge portions and front and rear and laterally projecting ridge-portions, the rear sides of the laterally projecting ridge-portions being substantially vertical so as to form abutments for engagement and cooperation with a point-driving means, the front one of said ridge-portions having its rear end against and united with adjoining ends of said laterally projecting ridge-portions and being tapered to a sharp entering point, the front pair of outer-edge portions having acute apexes that meet at and merge with said sharp entering point, said front one of said ridge-portions having a longitudinal base adjoining and united with inner edges of said front pair of plane thin outer portions, the rear one of said ridge-portions being substantially alined with said front one of said ridge-portions and having its longitudinal base united with the inner edges of said rear pair of plane thin edge-portions while its front end is against and united with said adjoining ends of said laterally projecting ridge-portions.

2,532,798
SLINGSHOT
David Clyde Wright, Salem, Ohio
Application February 4, 1947, Serial No. 726,301
2 Claims. (Cl. 124—20)



1. In a slingshot frame, a substantially flat member having a forked end and a butt end lying in substantially the same plane, and a handle attached to said flat member near the base of its fork and forming an acute angle with the principal plane of the flat member so that the butt end thereof is braced against the arm of the user when the slingshot frame is held in aiming position.

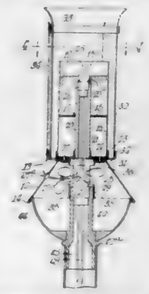
2,532,799
FACSIMILE SYSTEM HAVING ROTATING SCANNER MOVING LONGITUDINALLY WITHIN STATIONARY TRANSPARENT DRUM
Charles J. Young, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 1, 1944, Serial No. 547,550
10 Claims. (Cl. 178—7.1)



8. A facsimile machine comprising a stationary cylindrical copy holder, a movable scanning head in said copy holder, means to support said movable scanning head within said copy holder, a scanning head drive shaft extending externally of said copy holder, a hollow power drive shaft axially aligned with said scanning head drive shaft to receive said scanning head shaft internally thereof, means internally of said drive shaft for causing both of said shafts to be rotatable as a unit but permitting free sliding action therebetween and a complete disengagement of said shafts to permit removal of said scanning head from said copy holder, and power drive means connected to said drive shaft.

9. The combination of claim 8 wherein said drive shaft has secured thereon a scanning member, and means cooperating with said scanning member to scan a recording web in cooperation with said scanning member.

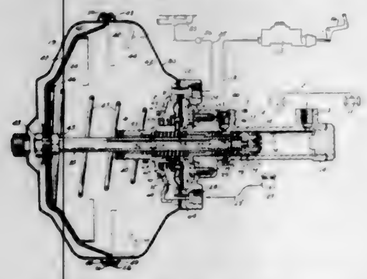
2,532,800
LIGHT FIXTURE
Peter J. Adinamis and Solon A. Bennett, Chicago, Ill.
Application December 17, 1947, Serial No. 792,190
3 Claims. (Cl. 219—45)



1. A light fixture simulating a burning candle and comprising a base, an open top container of light transmittable material mounted on the base and forming a well, a socket with its open end facing toward the open top of the container, a light bulb in and extending above said socket and terminating at a level below the top of the container, a heat vaporizable material within

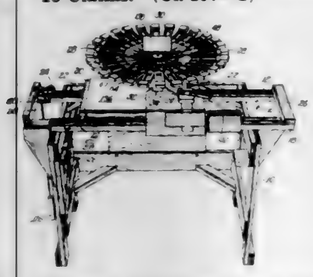
the well, contacting the lower portion only of the bulb whereby the upper portion of the bulb remains exposed and current conducting means connected with the bulb whereby the bulb may be rendered incandescent thereby liquefying only the material adjacent the bulb.

2,532,801
PRESSURE DIFFERENTIAL SERVOMOTOR AND CONTROL
Gordon R. Elliott, Ferndale, Mich., assignor to Irving A. Puchner and Edward U. Demmer, Milwaukee, Wis.
Application October 3, 1945, Serial No. 619,947
8 Claims. (Cl. 121—38)



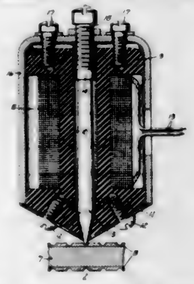
1. The combination, an air and vacuum valve housing, a power chamber joined thereto, a movable member within said power chamber defining operating and vacuum chambers on opposite sides thereof, a vacuum source joining said housing and conducted therethrough to said vacuum chamber, air inlet ports in said housing, a plunger rod secured to said movable member and slidably disposed through said valve housing, said rod having a partial longitudinal passage terminating in said operating chamber and within said housing, and movable means in said housing for alternately providing air and vacuum communication to said operating chamber.

2,532,802
STENCILING APPARATUS
H. Russell Farwell, Quincy, Ill.
Application October 7, 1946, Serial No. 701,649
15 Claims. (Cl. 197—1)



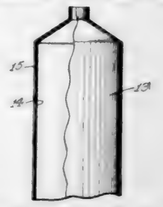
12. In a stenciling apparatus of the character described, the combination of a hub member having a radial slot therein, a plurality of removable stencil frames radially disposed about and overlapped by said hub member, and a rotatable circular support member disposed in spaced relation to said hub member and forming a fulcrum about which said stencil frames may be pivoted when respectively aligned with said slot.

2,532,803
MAGNETIC RECORDING, REPRODUCING, AND ERASING APPARATUS
Harold T. Faus, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application January 9, 1945, Serial No. 572,034
19 Claims. (Cl. 179—100.2)



1. A magnetic recording and reproducing head comprising a frame, a coil spool carried by said frame and having an end flange and an axial bore, said axial bore being tapered toward a small aperture at the center of said flange, a magnetizable needle positioned in said bore and having a tapered end terminating in a fine point, and means for maintaining the tapered end of said needle seated at said aperture with said point protruding therethrough comprising a set screw mounted in said frame and arranged to apply axial pressure to the other end of said needle.

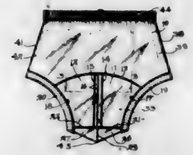
2,532,804
COLLAPSIBLE TUBE HAVING METALLIC LINING WITH LOW LEAD PICKUP AND METHOD OF MAKING SAME
John H. Friden, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Application February 18, 1947, Serial No. 729,318
5 Claims. (Cl. 222—92)



1. A metallic collapsible tube comprising an integral unit having a thin, flexible tubular wall and a relatively stiff member extending inwardly from said wall adjacent one end to at least partially close said end of the tube, said wall and member being formed primarily of substantially pure lead but having on the inner surface thereof a thin, substantially uniform, impervious coating of an alloy consisting essentially of 30 to 50% tin, 2.5 to 5% antimony and the balance substantially all lead.

2,532,805
REINFORCED CROTCH FOR MEN'S UNDERWEAR
Harry Gadalowitz, Brooklyn, N. Y.
Application April 21, 1947, Serial No. 742,797
4 Claims. (Cl. 128—159)

1. An undergarment for men, comprising a front abdominal section adapted to extend between the waist and a point slightly above the crotch, a back section adapted to extend from the waist to a point beneath the crotch and having its lower end spaced from the bottom edge of said front abdominal section, two crotch pieces disposed in the space between the adjacent edges



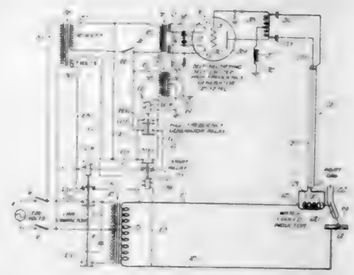
of said sections, a reinforcing strip disposed behind the crotch pieces, stitches joining the top edges of said crotch pieces and reinforcing strip to the bottom edge of said front abdominal section, and stitches joining the bottom edges of said crotch pieces and reinforcing strip to said lower end of said back section.

2,532,806
DEVICE FOR PIVOTALLY CONNECTING THE FRAME OF A ROAD ROLLER WITH A SUPPORTING ROLL
Clayton E. Gifford, Marion, Ohio, assignor to The Huber Manufacturing Company, Marion, Ohio, a corporation of Ohio
Application April 17, 1947, Serial No. 742,000
12 Claims. (Cl. 280—109)

1. In a road roller, a frame, a roll yoke, a roll in said yoke, a vertical spindle rotatably mounted in said frame, a pivot pin extending transversely to and having supporting connection with said spindle, bearings carried by said yoke and having supporting connection with respective ends of said pivot pin, and means for adjusting said bearings to take up wear.

2,532,807
ARC-WELDING TORCH
Dean C. Girard, San Leandro, and Frank T. Roach, Hayward, Calif., assignors, by mesne assignments, to National Cylinder Gas Company, a corporation of Delaware
Application December 29, 1948, Serial No. 67,794
11 Claims. (Cl. 219—14)

1. For combination in an arc welding system wherein the arc is a low frequency alternating current arc and is stabilized by high frequency current of the order of several megacycles superimposed thereon, an inductor in substantially as close proximity to the arc as it is physically possible to position the same, and circuit means consisting of a non-radiating transmission line for

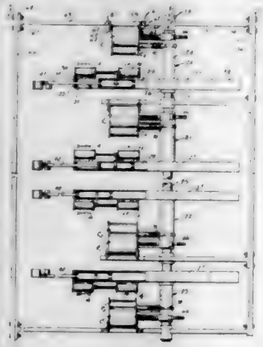


connecting said inductor for energization across the high frequency current source.

2,532,808
FOLDABLE TRAY BLANK AND TRAY
George G. Grinnell, Quincy, Mass.
Application November 5, 1948, Serial No. 58,538
6 Claims. (Cl. 229—31)

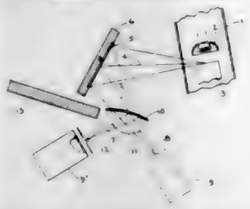
1. A foldable tray blank comprising a rectangular flat sheet scored along longitudinal and transverse lines to form a bottom panel, two side panels and two end panels, a pair of corner forming sections at each end portion of the blank respectively integral with the adjacent side and end panels, each corner forming section being scored diagonally from the corner junction of the adjacent side and end panels to a point interiorly of the corner forming section and being slit from such point to the adjacent side margin of the blank, a pair of tabs integral with each pair of corner forming sections along two scored lines each extending from one side margin of its section and tab to a point interiorly thereof, each tab being severed from its section along a cut line extending from the last named point a predetermined distance toward the adjacent end of the blank and from thence laterally to the opposite side margin of the section and tab, one side wall portion of the blank at each end thereof between said slit and the adjacent end of the blank being of a width to overlap the other side wall portion when the side panel portions are folded along the longitudinal score lines onto the bottom and end panel portions to form a folded tray blank, the two tabs at each end of the blank when folded into overlapping relation being adapted to form a locking flap pivotally movable about an axis coincident with said two scored lines, each end of the bottom panel having a transverse slot formed therein along and adjacent to its junction with the end panels for receiving the adjacent locking flap, and a cover flap integral with and extending outwardly beyond the free end of each end panel and pivoted thereto on a scored line substantially coincident with the laterally extending portion of said cut line at each side of the blank.

2,532,809
ELEVATOR CONTROL SYSTEM
Leopold J. Guay, Flushing, N. Y.
Application August 31, 1948, Serial No. 47,091
22 Claims. (Cl. 187—29)



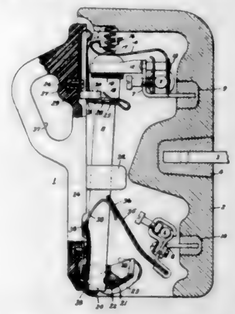
17. In a control system for elevators, a plurality of supports remote from the elevator cars and movable on a common axis in two directions, individual means each controlled by the movement of an associated elevator car for rotating a corresponding one of said supports on said axis in one direction when the car is ascending and in the opposite direction when said car is descending, exciting lamp means and photo-electric means on each support, each constituting a set, a second set of exciting lamp means and photo-electric means on each support in spaced-apart relation to the first set thereon, circuits between both sets on each support and the magnetic direction control of its corresponding elevator, electrically controlled means for and operatively connected to each support and electrically connected to the magnetic direction control of its associated elevator for decreasing the radius of each support when its elevator is moving in the opposite direction, whereby the exciting lamp means of one set on one support may shine on the photo-electric means for the corresponding set on another support moving in the same direction, and circuits between said last photo-electric means and instrumentalities remote from said supports.

2,532,810
X-RAY DIFFRACTION APPARATUS FOR USE WITH RADIOACTIVE MATERIALS
David Harker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 13, 1950, Serial No. 138,484
3 Claims. (Cl. 250—51)



1. Apparatus for studying the diffraction pattern of a material capable of emitting radioactive radiations, either spontaneously or when subjected to X-rays comprising means for producing a beam of X-rays, means for supporting a material to be studied in the path of said beam and inclined at an angle to the axis thereof, a crystal supported in the path of the beam diffracted from the material, said crystal having a fixed curvature and being inclined at an angle to the axis of the beam sufficient to rotate the path of the diffracted beam through a large angle, radiation detecting means positioned to receive the rotated beam, and radiation absorbent material positioned between the material to be studied and said radiation detecting means.

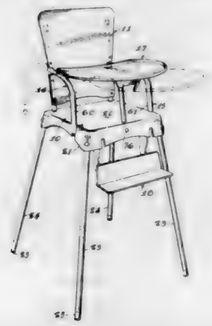
2,532,811
ELECTRIC CUTOUT
Benjamin R. Hermann, Lanesborough, and Francis L. Flanagan, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application March 25, 1950, Serial No. 151,854
2 Claims. (Cl. 200—114)



2. An electric cutout comprising a casing of insulating material, upper and lower electrical connectors secured to the interior of said casing for the reception of incoming and outgoing conductors, a fuse pivotally supported within said casing, a casing cover supported upon said fuse, a contact cap connected to one end of said fuse, spring contact means extending from said upper connector for engagement with said contact cap, a fuse link in said fuse having a conductor extending from the lower end thereof, a spring member for connecting said cover to the upper portion of said fuse, said spring member biasing said cover for movement to swing the lower end of said cover away from said fuse, said fuse link conductor being fastened to said cover to restrain said movement of said cover, said fuse link being adapted to release said cover upon operation of said cutout and destruction of said link, a contact member supported on the lower portion of said cover in contact with said fuse link conductor, a second contact member associated with said lower connector and arranged for contact making engagement with said first contact member before destruction of said fuse link and for disengagement upon said destruction.

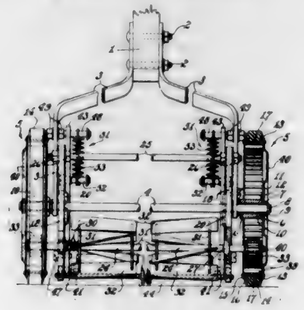
2,532,812
CHAIR AND TRAY COMBINATION
John E. Huber, Cincinnati, Ohio
Application September 3, 1946, Serial No. 694,497
7 Claims. (Cl. 155—128)

1. In a chair having legs, arms, back, and a seat portion, a readily removable tray with depending projections supported by means disposed centrally of the seat portion, said means consisting of a rigid tubular support having its lower portion bolted to said seat portion, said support having a fitting rigidly secured at the top thereof, said fitting formed with horizontally spaced parallel portions having upwardly and



outwardly flared surfaces and flat upper surfaces forming ways for supporting the tray, and means for adjusting the tray horizontally with respect to said back and said rigid tray supporting means while said projections embrace said outwardly flared surfaces.

2,532,813
LAWN MOWER CONSTRUCTION
Chester L. Hussey, Belchertown, and Frank T. Green, Easthampton, Mass., assignors to Savage Arms Corporation, Utica, N. Y., a corporation of Delaware
Application November 26, 1949, Serial No. 129,672
2 Claims. (Cl. 56—249)



1. A lawn mower having a frame including spaced handle braces, a wheel axle mounting said braces and provided at each end with wheels journaled thereon, spaced side plates on said axle between said braces, said plates having forward and rearward extensions, pins in said axle holding the plates in spaced relation against rotation on the axle and providing limited movement of the extensions toward and away from each other, a reel shaft journaled in the rearward extensions of said plates, a reel on the shaft and yieldable means for positioning the same between said plates, a bed knife mounted between the plates at the periphery of the reel and an adjustable tie rod joining the forward extensions of said plates for tightening and loosening said knife.

2,532,814
METHOD OF MAKING SPLIT BAMBOO RODS OR POLES
Wesley D. Jordan, Manchester, Vt., assignor to Charles F. Orvis Co. Inc., Manchester, Vt., a corporation of Vermont
No Drawing. Application April 13, 1946, Serial No. 662,086
6 Claims. (Cl. 154—121)

1. The method of making a rod of split bamboo which comprises assembling previously dried segmental sticks of bamboo with the natural enamel sides thereof facing outwardly, while maintaining the sticks loosely assembled, applying a heat-hardening liquid resin between the adjacent surfaces of the sticks, then tightly clamping the sticks together throughout their lengths and while thus held heat-treating them to cause the resin to become set to secure the sticks together, cleaning the surface of the rod thus formed to free it of resin and natural enamel of the bamboo, waterlogging the cleaned rod, while waterlogged impregnating the material of the rod with a heat-hardening liquid resin, and after impregnating heat-treating the rod to set the impregnating material.

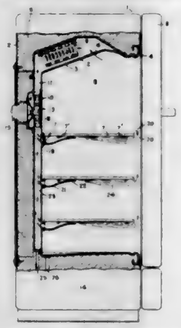
2,532,815
SPECIAL LOCK SCREW
Richard La Vern Kindsvatter, Hagerstown, Md., assignor to Hagerstown Engineering Company, Inc., Hagerstown, Md., a corporation of Maryland
Application August 29, 1947, Serial No. 771,215
6 Claims. (Cl. 287—52.08)

1. In a device for securing wheels, pulleys and the like to a shaft, the combination of a set screw and a pin, the outer portion of the set screw being adapted to receive means for operating the said screw, the inner portion of the set screw being provided with a tapered aperture, the said pin having its outer end fitting within the tapered portion of the said set screw, the inner end of the pin extending beyond the inner end of said set screw and adapted to extend into an aperture within the shaft.

2,532,816
AIR CIRCULATING ARRANGEMENT FOR REFRIGERATORS
Lowell M. Kurtz, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 16, 1949, Serial No. 127,662
12 Claims. (Cl. 62—102)

1. The refrigerator cabinet including an outer wall, an inner wall spaced from said outer wall and defining a food storage compartment, a plurality of substantially imperforate shelves arranged in spaced relationship within said compartment and dividing said compartment into sub-compartments, said inner wall having a plurality of horizontal openings therein, each of said

openings being arranged immediately below the lower rear edge of a corresponding one of said shelves, the forward portion of each of said subcompartments being unobstructed at least in the region immediately below the forward edge of said shelves, means for circulating air through said openings into said compartment, and means ad-



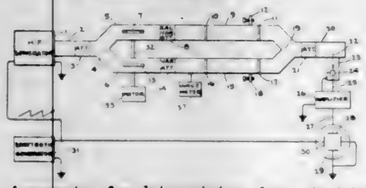
jacent each of said openings for directing air toward the forward portion of said compartment closely adjacent the under side of the corresponding shelf whereby the moving stream of air is confined to the region in the vicinity of the under side of each shelf and contact between the circulating air and food stored on the shelves is minimized.

2,532,817

APPARATUS FOR ANALYZING FLUIDS BY MICROWAVE ABSORPTION

James M. Lafferty, Schenectady, and Amandus H. Sharbaugh, Scotia, N. Y., assignors to General Electric Company, a corporation of New York

Application December 30, 1949, Serial No. 135,878
5 Claims. (Cl. 175—183)



1. Apparatus for determining characteristics of a fluid comprising a source of ultra high radio frequency waves, an ultra high radio frequency detector, a pair of parallel conductive paths connected between said source and said detector, one of said paths including an arrangement for containing a fluid of known characteristics, the other of said paths including an arrangement for containing a fluid whose characteristics are to be determined, and means for rapidly switching the flow of ultra high radio frequency waves from said source to said detector over said paths alternately.

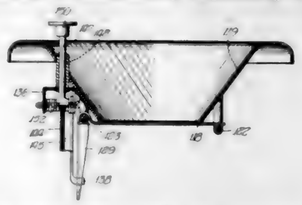
2,532,818

RECEPTACLE CLOSURE

Adrien L. Langel, Chicago, Ill., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application February 12, 1948, Serial No. 7,867
2 Claims. (Cl. 220—20.5)

1. In a device of the class described, a cover for a receptacle, the cover having an opening formed therein, spaced guide members carried upon the lower side of the cover, a closure slidably supported on said guide members, said closure having a downwardly depending extension



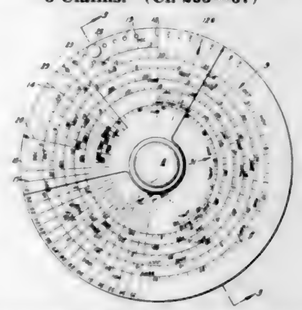
adjacent one of said guides, the extension having means engaging the under face of said guide, a pivoted lever carried by the cover and engaging the extension, and a push rod for actuating the lever to move the closure along said guides.

2,532,819

RHYTHM CYCLE CALCULATOR

Park L. Morse, Emporia, Kans.

Application April 16, 1946, Serial No. 662,440
8 Claims. (Cl. 235—67)



1. A calculator of the character described comprising: a calendar in which the days and months of the year are indicated on a continuous date scale originating and terminating on a common line; first and second transparencies overlying said normal calendar coaxially therewith and arranged for relative rotation with respect to each other and to said calendar, each transparency being provided with a fertility reference line and with means for indicating the normal conception period of a woman, said period covering eight days and originating nineteen days measured from said fertility reference line in a direction reverse from said date scale; a menstrual cycle scale provided on said first transparency, said scale originating from the fertility reference line of said first transparency and extending in a direction reverse to said date scale and including the minimum and maximum menstrual cycles to which women are normally subject; and a menstrual cycle variation scale provided on one of said transparencies and including the maximum number of days over which the menstrual cycle of women normally varies.

2,532,820

SMOKING PIPE

James D. Pelt, Beverly Hills, Calif., assignor to Zoe A. Mozert, West Hollywood, Calif.

Application December 9, 1946, Serial No. 714,924
7 Claims. (Cl. 131—185)

1. In a smoking pipe having a bowl, a hollow stem and a bit receivable in the end of the stem,

a fuel reservoir in said stem, an ignition means having a bottom wall embedded in the rim of

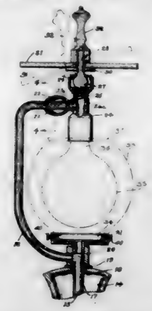
the bowl, and a wick tube in the wall of the bowl connecting said reservoir and said wall of the ignition means.

2,532,821

ELECTRIC LAMP

Lawrence Rosenfeld, New York, N. Y.

Application February 17, 1947, Serial No. 729,126
3 Claims. (Cl. 240—81)



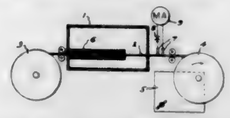
1. In an electric lamp having a base and a C-shaped arm having one of its end portions attached to the base and extended vertically therefrom, an inverted electric lamp socket positioned at the free end of the other end portion of the C-shaped arm, a light bulb in said socket and depending therefrom, a globe mount on the end portion of the C-shaped arm concentrically below said lamp socket, a globe rested in said globe mount and formed with a top opening through which the bulb extends to the interior of said globe, a shade member tiltably mounted above the lamp socket to shade the top opening of said globe, and means pivotally attaching said lamp socket to the free end of the other end portion of the C-shaped arm, whereby said globe may be lifted vertically out of said globe mount and pivoted with said light bulb about the pivotal mounting of said lamp socket to a position in which the globe is clear of said globe mount after which the globe may be moved downward free of the bottom of said bulb.

2,532,822

ELECTRICAL MOISTURE METER

Vincent J. Schaefer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 18, 1947, Serial No. 786,603
16 Claims. (Cl. 73—335)



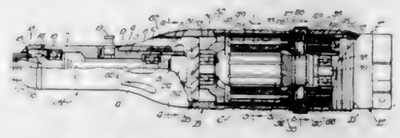
1. Apparatus to measure the liquid content of an aerosol comprising a permeable element impregnated with a salt soluble in said liquid and having electrical characteristics which vary as a function of the wetness of said element, shielding means to expose a portion of said element to the aerosol and shield other portions from such exposure, means to move said element relative to said shielding means, so that different portions of said element are exposed successively, and means to measure an electrical characteristic of said portions after such exposure.

2,532,823

MOTOR TOOL

Helmut W. Schumann, Racine, Wis.

Application August 25, 1949, Serial No. 112,349
12 Claims. (Cl. 172—36)



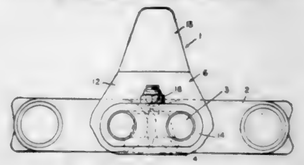
1. A renewable, factory balanced motor cartridge adapted to be inserted into a cylindrical metal housing comprising a cylindrical shell formed of a body of insulation comprising a thick walled ring portion and a thin walled sleeve portion, said ring portion having a bore, a bearing seat set in said bore, the sleeve portion having a bore, a cylindrical field core telescopically lodged in said latter bore, the outer end of the sleeve portion being counterbored to provide a shouldered cylindrical seat, a bearing frame having a cylindrical outer periphery adapted to be lodged in said seat and being fixedly secured therein, said bearing frame having a bearing seat, armature shaft bearings disposed in said seats, an armature disposed in said field core and having a shaft supported in said bearings, said armature having a commutator disposed adjacent said ring, and brush holders containing brushes extending radially through the sides of said shell and registering with said commutator said armature and shaft being dynamically balanced for high speed rotation in said bearings.

2,532,824

TRACK SHOE CONNECTOR

Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application March 22, 1944, Serial No. 527,616
2 Claims. (Cl. 305—10)



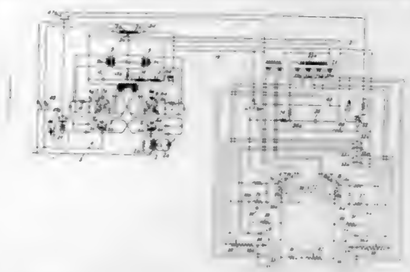
1. An end connector for adjacent shoes of a vehicle track comprising a sheet metal guide stamping having a base and a boss with the latter provided with a guiding surface laterally offset from said base, and a sheet metal drive stamping fixedly secured to said guide stamping and having a base opposed to said first mentioned base, an extension closing said boss, and a boss extending laterally from said last mentioned base and having opposed internal bearing surfaces.

2,532,825
WELDING CONTROL SYSTEM
Herbert F. Storm, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 21, 1949, Serial No. 105,967
3 Claims. (Cl. 323—24)

1. A welding control system comprising a source of alternating voltage, a pair of ignitrons for supplying alternating current from said source to a welding load circuit, an initiating switch and a first electric valve controlled thereby for initiating the firing of said ignitrons, a phase shifting circuit energized from said source including a heat control rheostat for presetting an initial firing point of said ignitrons in a positive half cycle of alternating voltage, a transformer having its primary winding connected across said rheostat, a rectifier connected to the opposite terminals of the secondary winding of said transformer, said rectifier comprising a pair of electric valves each having an anode, a cathode and a control grid, a capacitor connected between said cathodes and grids, a source of direct voltage for supplying a voltage to said capacitor to apply negative bias voltages to said grids, means for adjusting said bias voltages to bias said rectifier valves to cut-off, a charging circuit for said capacitor closed in response to operation of said initiating switch for supplying a voltage of opposite polarity and increasing magnitude to said capacitor to cause said rectifier valves to fire progressively earlier in successive half cycles thereby progressively to reduce the apparent resistance of said primary winding, the reduction of said apparent resistance serving progressively to advance the firing of said ignitrons in successive half cycles and increase the current supplied to the welding load circuit.

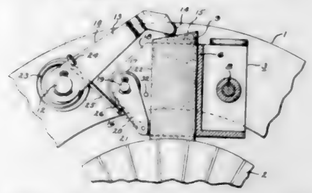
2,532,826
WELDING CONTROL SYSTEM
Charles R. Hewson, Altamont, N. Y., assignor to General Electric Company, a corporation of New York
Application July 27, 1949, Serial No. 107,127
3 Claims. (Cl. 323—24)

1. For use with a welding control system which comprises a source of alternating voltage, an initiating switch, a pair of ignitron waves and a phase shifting circuit supplied from said source and including a heat control rheostat for controlling said ignitrons to control the magnitude of the current supplied through said ignitrons from said source to a welding load, a welding current rise control system comprising a pair of thyratrons each having an anode, a cathode and a control grid and having their anode-cathode circuits connected in inverse parallel with each other and in series with said rheostat, a capacitor connected in circuit between each of said cathodes and its associated control grid, a grid transformer having a primary winding energized from said source and a separate secondary winding in circuit with each of said capacitors, a separate rectifier in circuit with each of said capacitors poled to charge said capacitors to bias said thyratrons negatively beyond cut-off, a separate auxiliary capacitor connected across each of said secondary windings, a separate rectifier in circuit with each of said auxiliary capacitors and poled to charge said auxiliary capacitors oppositely with



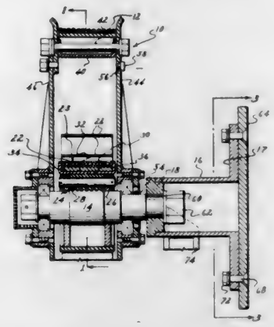
respect to the charge on said bias capacitors, and a relay responsive to operation of said initiating switch for disconnecting said bias capacitors from said secondary windings and for reconnecting each of said bias capacitors in circuit with its corresponding auxiliary capacitor thereby gradually to discharge said bias capacitors and to recharge them to the opposite polarity to advance the firing of said ignitrons in each positive half cycle of anode voltage to increase the current supplied to the welding circuit at a predetermined rate.

2,532,827
BRUSH RIGGING
Charles A. Thomas, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 3, 1949, Serial No. 130,910
6 Claims. (Cl. 171—324)



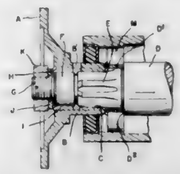
4. A brush rigging for a dynamoelectric machine having a stationary member comprising a brush guiding member having an open slot for guiding a brush for longitudinal movement toward a current collector of said dynamoelectric machine, a stud mounted on said stationary member, a lever member pivotally mounted on said stud, a second lever member pivotally mounted on said stationary member, and a coil spring surrounding said stud and connected at its respective ends to said levers and operable in torsion to maintain a uniform ratio of pressures on said levers for biasing said first mentioned lever member to resiliently urge said brush toward said current collector and for biasing said second-mentioned lever member to resiliently urge said brush against a wall of said brush guiding member for preventing chattering.

2,532,828
TAGLINE DEVICE
Robert W. Westfall, North Hollywood, Calif., assignor of forty-nine per cent to Earl C. Marshall, Los Angeles, Calif.
Application November 10, 1945, Serial No. 627,893
3 Claims. (Cl. 242—107)



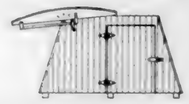
3. Mounting means for adjustably securing a tagline device including a drum about which the tagline can be wound, and a stationary spindle on which the drum is rotatably supported on the boom of a crane or the like comprising a mounting plate adapted to be secured to the boom, a bracket including a plate portion and an outstanding tubular portion having an apertured end wall, said plate portion including arcuate slots concentric with the axis of the aperture in the end wall of the tubular portion, and nut and bolt means extending through said slots and mounted in said mounting plate for adjustably securing said bracket to said mounting plate.

2,532,829
TORQUE TRANSMITTING SHAFT COUPLING
Earl W. Winans, Detroit, Mich.
Application May 14, 1946, Serial No. 669,571
3 Claims. (Cl. 287—52.06)



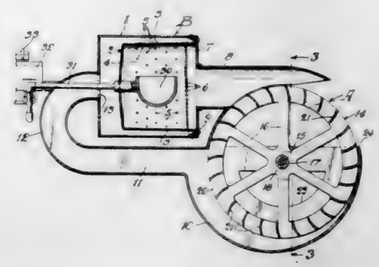
3. A torque transmitting coupling comprising a flanged hub member having internal splines extending a portion of the length thereof and a tapered socket in another portion of the length, a shaft having an end thrust bearing thereon, a large diameter externally splined portion on said shaft and adjacent to said bearing for engaging the splines of said hub member, said shaft having a cylindrical portion of slightly smaller diameter within the tapered socket and a threaded end portion, a split tapered bushing inserted between said cylindrical portion and tapered socket, and a nut engaging said threaded portion for forcing said split bushing into frictional coupling engagement with said hub member and also forcing the latter against said end thrust bearing.

2,532,830
HOG COOP
John Barnhart and Gordon B. Toney, Eaton, Ohio
Application March 18, 1948, Serial No. 15,614
3 Claims. (Cl. 108—2)



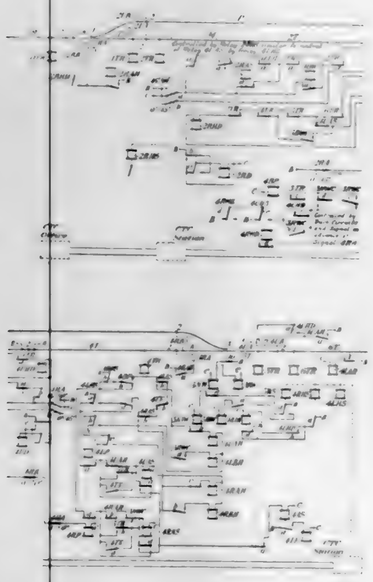
1. An animal coop comprising upright panels forming a substantially rectangular structure, a separate free roof surmounting said structure and having depending edges extending around the periphery of the roof fitting in telescoping relation over the upper edge of the structure, and means at opposite sides of said roof for preventing removal of said roof from said structure and allowing movement thereof across the top of the structure, each of said means comprising a spindle secured to an upright panel of said structure adjacent an upper corner thereof, a roller on said spindle, said roof having the depending edge thereof resting on said roller for movement thereover, a bar positioned beneath said roller parallel to said edge of said roof that rests on said roller and extending substantially from one end of the said edge to a position just beyond the center of the roof as established from the said one end, and a bracket member extending from each end of said bar into fastening engagement with said roof.

2,532,831
COMBUSTION CHAMBER AND TURBINE ARRANGEMENT
James L. Breese, Santa Fe, N. Mex., assignor, by mesne assignments, to Breese Burners, Inc., Santa Fe, N. Mex., a corporation of Delaware
Application January 27, 1945, Serial No. 574,935
4 Claims. (Cl. 60—41)



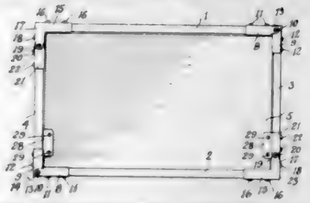
1. In a burner, turbine structure, a horizontally axised burner pot having a closed end and a circumferential side wall provided with a plurality of air inlet apertures, means for vaporizing a liquid fuel within said pot, a flame ring and a flame guide member adapted partly to close the otherwise open end of the pot, a turbine rotor rotatably mounted adjacent said pot and having buckets the line of movement of which extends into the path of delivery of flame and gases from said pot and guide, a power takeoff for said turbine rotor, a housing surrounding said pot and a return passage extending from said rotor to said housing, said housing being closed except for said passage.

2,532,832
APPROACH LOCK RELEASE IN RAILWAY SIGNALING SYSTEMS
Ira F. Cadman, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 6, 1946, Serial No. 645,913
5 Claims. (Cl. 246—3)



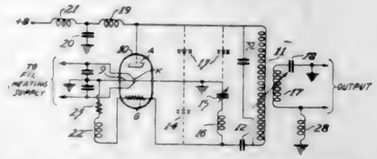
1. In a railway signaling system for a stretch of railroad track provided with two opposing signals and an approach signal for one of said opposing signals, said signals being of the semaphore type having stop, caution and clear positions and having contacts selectively operated in accordance with the position of said signal, the combination with a signal control contact operable to a position for clearing said one opposing signal and having another position, an approach locking relay for said one opposing signal for controlling over its front contact the clearing circuit for the other opposing signal, means controlled by contacts of said one opposing signal for operating said approach signal from caution to clear, a signal repeating relay controlled by said signal operated contacts to be energized only when said one opposing signal is at stop and said approach signal is either at or between its stop and caution positions, a distant control relay for said other opposing signal momentarily energized when said approach signal operates from its clear to its caution position when said stretch between said approach and said one opposing signal is vacant, of an approach relay provided with a pick-up circuit including a front contact of said distant control relay and a contact operated in synchronism with said signal control contact, a stick circuit for said approach relay including its front contact connected around the contact of said distant control relay, and a circuit for said approach locking relay including a front contact of said approach relay, a front contact of said signal repeating relay and said signal control contact in said other position.

2,532,833
BOX AND SIMILAR CONTAINER
William J. Cella, Forest Hills, N. Y.
Application September 16, 1948, Serial No. 49,510
1 Claim. (Cl. 217—14)



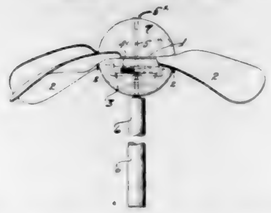
An open top rectangular collapsible box comprising hingedly connected side and end walls and a bottom hinged at one side edge adjacent the lower edge of a side wall, two diametrically opposite ends of the side walls carrying a vertical strip extending normal to the plane of the side and forming a part of the adjacent end wall when the box is in set up condition and further acting as end walls for the box when collapsed, upper and lower hinge members at the corners of the box, all of said hinge members being of U-shape and straddling upper and lower edges of the side and end walls, two of the diagonally opposite corners having said hinge members, each composed of two sections with one section being of right angle formation in plan view and straddling the adjacent strip and adjacent end of the side wall and being pivoted to the other hinge section beyond the strip in the zone of the end wall, and the other two diagonally opposite corners having said hinge members pivotally connected at the corners of the box, the bottom of the box being of lesser length and width than the box body and occupying a position below and inwardly of the side and end walls of the box when the latter is in set up condition for the vertical nesting of boxes, the hinge mounting for the bottom comprising a pair of downwardly extending brackets secured to the inner face of each of the side walls and projecting below the bottom plane of the box body with a terminal portion on each bracket extending inwardly parallel with the bottom plane of the box, the brackets at one side having ears upstanding from said terminal portions and between which a side edge of the bottom is pivotally mounted with the pivots spaced inwardly of the inner face of the adjacent side wall and the brackets at the opposite side forming supports for the free edge of the bottom.

2,532,834
OSCILLATION GENERATOR CIRCUIT
Donald L. Christenson, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 6, 1945, Serial No. 614,738
8 Claims. (Cl. 250—36)



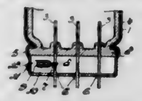
6. An oscillation generator comprising a vacuum tube having a grid, an anode and a cathode, a connection from ground to said cathode, an oscillatory circuit including an inductance coil and capacitor coupled between said grid and anode, the capacity between said anode and cathode consisting substantially only of the internal anode-to-cathode tube capacity and the stray capacities to ground of the associated circuit elements, the capacity between said grid and cathode consisting of the internal grid-to-cathode tube capacity plus the capacity of a variable condenser located externally of the vacuum tube and connected between said grid and ground, and an inductor in series with said condenser in the path between said grid and ground, said inductor having such value that the combination of inductor and variable condenser has a resonant frequency above the operating frequency of the generator, whereby there results a lower capacity reactance or effectively a higher value of capacity from grid to ground.

2,532,835
SOUND-PRODUCING TOY PIN WHEEL
Irwin Cohn, Leominster, Mass.
Application May 3, 1946, Serial No. 667,151
1 Claim. (Cl. 46—58)



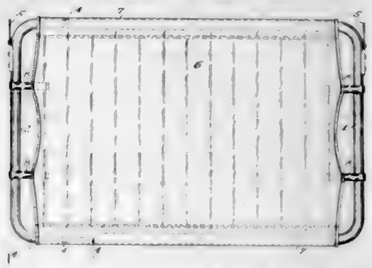
A sound producing pin wheel comprising a blade member formed of a sheet of material having a central disk-like area and a plurality of blades extending radially therefrom, said blades being of substantially equal area to provide a balanced assembly two hemi-spherical members, each member having its periphery secured to one side of said annular central member of the pin wheel, a shaft extending through the sphere formed by the two hemi-spherical members and the intermediate disk-like area of the pin wheel, a ratchet on said shaft and a vibratory blade member carried interiorly of one of said hemispheres and engaging the periphery of the ratchet.

2,532,836
THERMIONIC TUBE
Piet Marinus Cupido, Bernardus Octavianus Maria Gall, Johan Lodewijk Hendrik Jonker, and Adrianus Johannes Wilhelmus Marie van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,158
In Belgium May 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 1, 1965
15 Claims. (Cl. 250—27.5)



1. A thermionic tube comprising a bulb portion having a wall member, a supply conductor secured in said wall member of said bulb portion, a screening means mounted on said bulb portion and also having a wall member, said wall member of said bulb portion and said wall member of said screening means forming a spacing, and a trimmer condenser positioned in said spacing formed by said wall members, said trimmer condenser having first and second electrodes and a dielectric therebetween, one of said electrodes being in direct electrical contact with said screening means.

2,532,837
DRESSING TABLE FOR INFANT'S BATH STAND
Charles T. De Puy, Brighton, N. Y., assignor to Trimble Nurseryland Furniture, Inc., Rochester, N. Y., a corporation of New York
Application March 4, 1948, Serial No. 13,062
1 Claim. (Cl. 311—106)

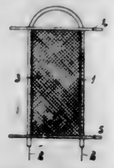


A dressing table for an infant's bath stand consisting of a supporting frame composed of two U-shaped members each of which has rounded corners and is in the form of a one-piece cylindrical metal tube, one of said U-shaped members having elongated legs extending nearly the length of the frame and the other of said U-shaped members having short legs which terminate in proximity to one end of the frame, a one-piece fabric element extending across the frame between said legs and having hems at its front and rear edges through which said elongated and short legs are threaded, the legs of one of said U-shaped members having cylindrical terminal guiding portions of reduced diameter which telescope within the legs of the other U-shaped member and tapering portions adjacent said terminal portions which tightly engage the edges surrounding the openings in the legs of said other U-shaped member, said fabric element extending over the telescoping joints between the legs of the U-shaped members to points in close proximity to the ends of the frame, said U-shaped members being of uniform diameter throughout except at said terminal and tapered portions, and adjustable fastening devices at the ends of the fabric element connected to the ends of the frame and operating to draw said U-shaped members of the frame toward each other to hold them in tight engagement with one another and to hold the fabric element stretched tightly on the frame.

2,532,838
ELECTRIC DISCHARGE TUBE COMPRISING AN INDIRECTLY HEATED CATHODE
Gesinus Diemer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 4, 1948, Serial No. 42,376
In the Netherlands August 15, 1947
9 Claims. (Cl. 250—27.5)

1. An indirectly heated cathode structure for an electron discharge tube comprising a tubular

metal body having bent-back portions for supporting the electron-emitting part of said cathode, a heating wire arranged within said tubular body, insulating means provided between said heating wire and said tubular body, and a plurality of thin wires secured to said supporting

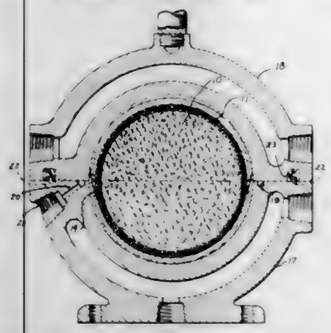


portions of the tubular body and adapted to be indirectly heated by said heating wire, said wires having a thickness of 50 microns at the utmost and being spaced from each other at a distance which is at least three times the diameter of said wires.

2,532,839

METHOD OF MAKING AN ARTICLE HAVING A POROUS INNER PART AND A MOLDED COVER THEREON

Thomas L. Fawick, Cleveland, Ohio
Application February 21, 1947, Serial No. 729,976
6 Claims. (Cl. 154—16)



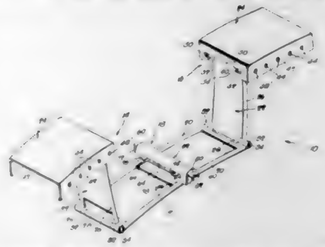
4. The method of making an article which comprises applying to a porous member a cover layer of moldable plastic, creating and locally entrapping a partial vacuum in the pores of said member while the member and the cover layer are unconfined and freely manipulatable, whereby the cover layer is sucked against said member, and thereafter setting the plastic while the pores of said member are out of communication with the exterior of the cover layer.

2,532,840

FOLDING EXTENSION DEVICE

Harry M. Gaun, Montclair, N. J., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation
Application February 3, 1948, Serial No. 6,040
6 Claims. (Cl. 24—71)

1. A folding extension device, comprising a base member, two pairs of cover and link members of which the members of each pair are pivotally connected at their adjacent ends and the ends of said link members remote from said cover members are hingedly connected to the opposite ends of said base member so that said pairs of members are foldable into superposed relation on said base member in two adjacent groups, a latch mounted on said base member for movement transversely thereof between said groups of folded members, said latch having opposite fingers extending longitudinally of said base member, and catches to cooperate with said

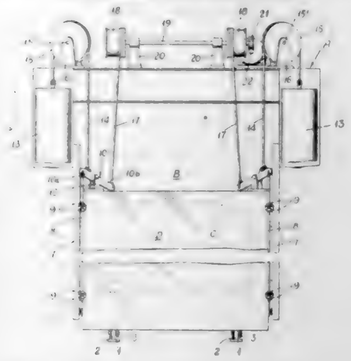


latch fingers, each catch comprising on said adjacent end of a cover member a depending end wall with a slot adapted for interlock with the adjacent latch finger.

2,532,841

FURNACE DOOR OPERATING MECHANISM

Edward A. Hanff, Pittsburgh, Pa., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 22, 1947, Serial No. 743,083
12 Claims. (Cl. 110—176)



1. The combination with structure comprising a vertical wall with an opening therein and a vertical guideway, of a closure movable in a substantially horizontal direction toward and away from said wall between a position in which said closure engages said wall and closes said opening and a second position in which said closure is spaced away from said wall, and movable vertically between said second position and a more elevated third position, lever means pivotally connected to said closure, means cooperating with said guideway and actuated by said lever means on pivotal movement in one direction or in the opposite direction to create a force acting between said door and guideway and tending to simultaneously move both the top and the bottom portions of said closure respectively toward or away from said wall, counter balancing means connected to and subjecting said lever means to a lifting force smaller than the weight of the closure and tending to turn said lever means in said one direction, a hoisting device connected to said lever means and subjecting said lever means to a second lifting force varying between a maximum greater, and a minimum less than the difference between

the weight of the closure and the first mentioned lifting force and tending to turn said lever means in said opposite direction with a force increasing as said second lifting force increases, said second lifting force acting on said lever means with sufficiently greater leverage than said first lifting force so that said lever is turned in said opposite direction before said second lifting force becomes equal to said difference.

2,532,842

MEANS FOR CURING MEAT AND TO PROCESSES FOR PRODUCING THE CURING MEANS

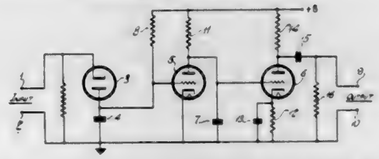
Troy David Hill, Shreveport, La., assignor to The Figaro Company, Inc., Dallas, Tex., a corporation of Arizona
No Drawing. Application July 29, 1949, Serial No. 107,646
6 Claims. (Cl. 99—159)

1. The method of making a meat curing product which includes, admixing curing ingredients and water to form a mass having the consistency of stiff dough, forming the mass into bodies of stick form, and then drying the bodies so as to substantially dehydrate and reduce said bodies to a hygroscopic porous solid form.

2,532,843

PULSE SELECTIVE SYSTEM

William D. Houghton, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 10, 1945, Serial No. 615,352
3 Claims. (Cl. 250—27)



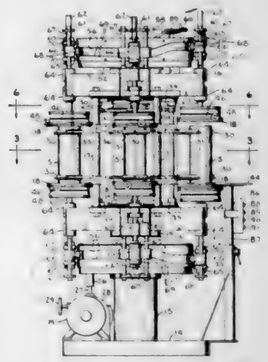
1. A pulse selective system comprising a diode having a cathode and an anode, a condenser connected between said anode and ground, an input lead connected to said cathode for supplying negative polarity pulses thereto, a normally conducting triode having its grid connected to the anode of said diode and its cathode connected to ground, individual resistors connecting the grid and anode of said triode to the positive terminal of a source of unidirectional potential, a condenser connected between the anode of said triode and ground, said triode and last condenser forming a saw-tooth generator circuit, another triode normally biased to the anode current cut-off condition, a resistor connecting the anode of said last triode to said positive terminal, an output coupling condenser also connected to the anode of said last triode, and a connection from the grid of said last triode to the anode of said first triode.

2,532,844

BEADING MACHINE

Edwin F. Hulbert, Sr., and Edwin F. Hulbert, Jr., Watertown, Wis.
Application January 8, 1947, Serial No. 720,788
8 Claims. (Cl. 18—19)

8. In a bead forming machine for thermoplastic cylinders or shells, the combination of a rotary turret, a heated bead forming die carried by the turret and movable lengthwise relative thereto, a fixed cam, means operated by the cam and connected to said die for reciprocating the same as the turret moves relative to said cam, a fixed gear, means carried by the turret and operatively connected to said die and engageable with said gear for oscillating said die during the movement of the turret, means carried by said turret for positioning an end edge of the article to be treated

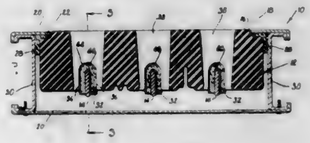


adjacent said die, the movement of said turret relative to said cam acting first to move said die into contact with said end edge for preheating the same and thereafter advancing said die to curl said preheated edge into a bead during a single cycle of movement of said turret about said cam, said die being oscillated by the means above described during the preheating and forming steps.

2,532,845

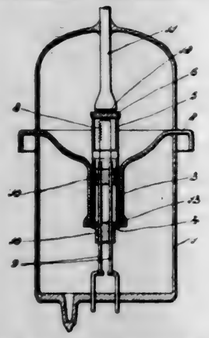
INSULATION SUPPORT FOR BUS BARS

Helge Jensen, Flushing, N. Y., assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J.
Application May 9, 1946, Serial No. 668,537
8 Claims. (Cl. 174—171)



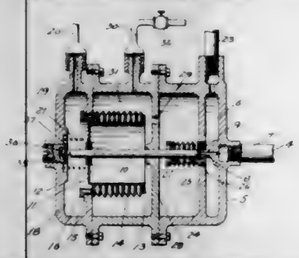
1. A bus bar support comprising a block of insulation material provided with internal laterally spaced confronting walls defining a groove of uniform width and wide enough to receive a bus bar with the opposite sides of the bus bar spaced from said walls, respectively, and with cushioning means for the bus bar disposed in said bus bar receiving groove between said opposite sides of the bus bar and the adjacent groove-defining walls, respectively, whereby to prevent engagement of the bus bar with said groove-defining walls in the event of movement of the bus bar transversely of said groove under abnormal circuit conditions said cushioning means extending substantially the full length of said groove, and means in said groove in fixed disposition relative to said bus bar, said cushioning means being compressed between said bus bar and said fixed means for preventing movement thereof longitudinally of said groove.

2,532,846
MANUFACTURE OF ELECTRON DISCHARGE TUBES
Johannes Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 22, 1949, Serial No. 106,115
In the Netherlands July 22, 1948
2 Claims. (Cl. 316—17)



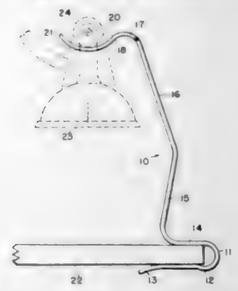
1. A method of manufacturing electron discharge tubes having small inter-electrode spacings, characterized in that at least one of the electrodes between which the small spacing must be adjusted is arranged in a metal cylinder so as to be slidable in the axial direction of the electrode system and the electrodes are then heated to a predetermined temperature exceeding the operation temperature while in contact with one another, the slidable sleeve being then secured in place by soldering.

2,532,847
FUEL CONTROL VALVE
John L. Junkin, Los Angeles, Calif.
Application March 26, 1946, Serial No. 657,247
2 Claims. (Cl. 137—153)



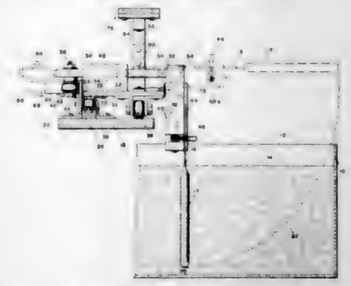
1. A device for controlling passage of fuel to a source of suction comprising, a cylindrical casing, partitions dividing the casing into axially aligned chambers, there being axially aligned passages through one end wall and the partitions of the casing, a fuel inlet conduit extending from said end wall passages across the adjacent chamber and freely into the passage through the inner wall of said chamber, an outlet fuel conduit from the chamber, said conduit terminating in a valve seat, a stem axially slidable in the partition passages and terminating in a valve in axial alignment with said seat, a bellows on said stem and on the inner wall of said chamber tightly closing the passage therethrough, the chamber at the opposite end of the casing having a passage communicating with the source of suction, a bellows secured to the inner wall of said second chamber and having its other end fastened to said stem, and resilient means urging movement of the stem and valve against said seat, suction through said passage causing contraction of said second bellows to move the stem against the tension of said resilient means thereby to open the valve.

2,532,848
IRON HANGER
Samuel Kravitz, Washington, D. C.
Application May 9, 1949, Serial No. 92,151
1 Claim. (Cl. 248—117.1)



An iron supporting hanger consisting of a one piece strap member comprising a self-clamping foot shaped like a U, a lip flaring downwardly from the lower leg of the U, an arm integrally extending upwardly from the upper leg of the U and bent outwardly from the U, and an iron handle receiving hook integrally extending forwardly from said arm, the minimum width of the mouth of said U being slightly less than the usual thickness of an ironing board whereby said flaring lip guides it into self-clamping position on an ironing board of usual thickness.

2,532,849
APPARATUS FOR MOVING ARTICLES
Charles Manaseri, Sherrill, N. Y., assignor to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application February 18, 1947, Serial No. 729,293
3 Claims. (Cl. 198—19)



1. In a device for automatically moving an article through a row of processing zones, while swinging said article upwardly at substantially the end of its travel through each one of said zones and then downwardly into position for traversing the next succeeding zone, the combination of carriage means actuated by driving means moving said carriage means at a substantially constant speed substantially parallel to the axis of said row of processing zones, said carriage

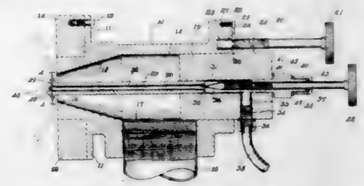
means supporting a holder for said article, said holder being swingably pivoted intermediate its vertical length at one end of said carriage means to depend vertically and to permit swinging about the point of pivoting in a plane at right angles to said axis, a roller positioned adjacent the end of said carriage means opposite to said holder and supported by said carriage, and so positioned that said plane passes through said roller, connecting means between said roller and a point on said holder above the point at which said holder is pivoted to said carriage means, a surface along which said roller rolls, the normal course of said surface being parallel to the line of travel of said carriage means, and deflections in said surface for causing said roller to move horizontally away from said holder at each of the intervals between each adjacent pair of said processing zones, said horizontal movement of said roller causing its associated holder and the article held thereby to swing upwardly out of the processing zone just traversed and into a substantially horizontal position.

2,532,850
SELF-BREAKING TOGGLE
Otto Hermann May, Schwabisch Gmund, Germany
Application February 28, 1949, Serial No. 78,764
In Switzerland August 24, 1948
10 Claims. (Cl. 74—520)

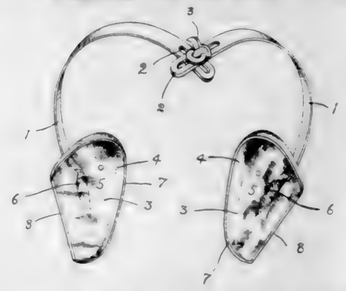
4. In a toggle press, a toggle system comprising a pair of toggle arms pivotally connected at a knee, one of said arms comprising a pair of pivotally connected links, one of said links having an extension past the pivotal connection of said links, a rod pivotally connected at one end to the end of the extension and extending through an aperture in the other link across the said other link, and compression spring means reacting from the said other link against an abutment at the other end of said rod and acting to bias said one link to an angular position slightly off dead center with respect to said other link as determined by engagement of the extension with said other link.

2,532,851
LIQUID FUEL ATOMIZER
David Meyer, Canton, Ohio, assignor to Meyer-Balzer Fuel Unit, Incorporated, Dover, Ohio, a corporation of Ohio
Application October 21, 1946, Serial No. 704,557
4 Claims. (Cl. 299—141)

3. Fuel atomizer construction including a tubular housing having an air inlet and a discharge nozzle communicating therewith, a fuel discharge tip located in said discharge nozzle, means for conducting air under pressure to said air inlet, and means supplying fuel to said tip, said tip including circumferentially spaced pairs of radially extending semi-elliptical lobes and channels extending radially into the spaces between the lobes of each pair, whereby fuel discharging from said channels between said lobes is substantially enveloped by the air stream to produce a high degree of atomization.



2,532,852
WELDER'S EAR GUARD
Vern George Oaks, Superior, Wis.
Application October 13, 1947, Serial No. 779,588
4 Claims. (Cl. 128—151)

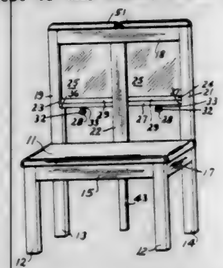


2. A guard for an ear comprising a body portion composed of fine mesh screen and having a substantially flat side surface, a formative leading edge for said guard, flanged portions projecting inwardly from portions of said side surface to overlap corresponding portions of said ear, and means fixed substantially centrally of said side portions for holding said guard in position on said ear.

2,532,853
VANITY BACK VIEW CHAIR
William N. Parry, New Haven, Conn.
Application August 4, 1948, Serial No. 42,517
4 Claims. (Cl. 88—92)

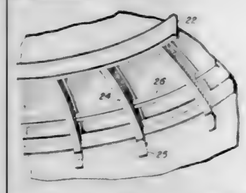
1. In a chair, the combination of a seat, laterally spaced apart chair side extensions rising above the rear edge of said seat, and having opposing faces, a rail attached to and extending across the upper ends of said extensions, the opposing faces of said extensions having grooves formed therein lengthwise thereof and in back of said rail, a cross strip extending from one extension to the other with its ends slidable in the said grooves, a pair of panels with their lower edges resting on said cross strip and having their opposing side edges hinged together at substantially the vertical center of said chair, the cross strip having lengthwise spaced apart slots therein and a pivot pin extending through each slot of said strip and secured to each panel to pivotally secure

each of the said panels to the cross strip, said panels, when disposed in laterally aligned position in respect to the chair, being adapted to



slide with said cross strip in the grooves in said extensions to close the space between the side extensions and thus form a back for said chair.

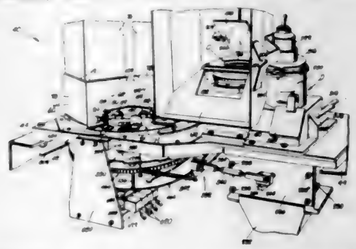
2,532,854
FLUID STORAGE TANK
Fred L. Plummer, Warren, Pa., assignor to Hammond Iron Works, Warren, Pa., a corporation of Pennsylvania
Application May 27, 1947, Serial No. 750,679
2 Claims. (Cl. 220—71)



2. In a closed liquid storage tank adapted to be subjected to internal super-atmospheric pressure, a top portion comprising a cylindrical shell portion, a convexly shaped sheet metal top fixed peripherally to the shell portion, reinforcing means for said top comprising a ring member of structural profile unitary and concentric with the top and of a diameter significantly smaller than the peripheral diameter of the top so that said ring is spaced a significant distance from the periphery of the top, said ring member in cross-section comprising a vertically extending portion welded edgewise to said top and a free horizontal portion extending from said vertical portion at the end thereof which is pointing away from said top, said ring member having the profile of a structural channel disposed at the underside of the top and having inwardly directed free flanges, with the addition of radial vertically curved reinforcing members extending between the ring and the shell.

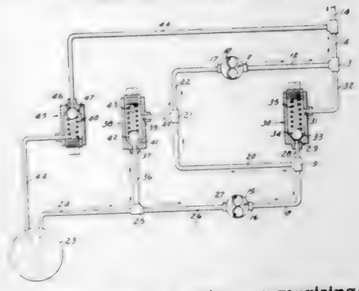
2,532,855
AUTOMATIC PICTURE-TAKING AND FINISHING APPARATUS
William Rabkin, Alexander Lissiansky, and Andrew Sebestyen, New York, N. Y., assignors to International Mutoscope Corporation, Long Island City, N. Y., a corporation
Application August 8, 1946, Serial No. 689,178
17 Claims. (Cl. 95—14)

1. In apparatus of the character described, a tiltable tray for supporting an exposed photographic plate for treatment with different liquids, a discharge chute for a treated plate below said tray, and a drain at one side of said chute for the waste liquids, said tray having a flow-off channel downwardly inclined to said drain and in drain-



off relation with the latter in any position of said tray.

2,532,856
LIQUID FEEDING SYSTEM
James L. Ray, Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 13, 1946, Serial No. 683,356
9 Claims. (Cl. 103—11)

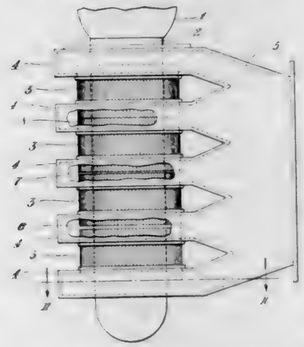


1. A liquid feeding system, comprising: discharge conduit means; at least two pump means; conduit means for connecting said pump means in series to feed liquid to said discharge conduit means; bypass conduit means around a first of said pump means; check valve means, interposed in said bypass conduit means, so constructed and arranged that it prevents flow therethrough from the discharge side of said first pump means and permits flow in the opposite direction; second bypass conduit means around the second of said pump means; and check valve means, interposed in said second bypass conduit means, so constructed and arranged that it permits flow therethrough to the inlet side of said first pump means and prevents flow in the opposite direction.

2,532,857
CONTAINER WITH WINDOW
Matthew C. Ricciardi, Phillipsburg, N. J., assignor to The Canister Company, Inc., Phillipsburg, N. J., a corporation of New Jersey
Application July 25, 1947, Serial No. 763,698
1 Claim. (Cl. 206—45.31)

A container comprising a body formed of fibrous material and having a window opening therein with positioning notches projecting outward from the opening at spaced points about the edges of the opening, a transparent member covering said opening and means for holding said transparent member in place with respect to said opening including a frame having a marginal portion overlying the edges of the transparent member, a flange extending substantially at right angles to said portion and engaged by the edges of said transparent member, said flange also engaging the outer surface of said body about the edges of said opening and outside said positioning notches, tongues extending inward from said flange beneath said marginal portion of the frame and serving to hold the transparent member in place with respect to said frame, said tongues having reversely turned extensions located in said notches and projecting outward therefrom on the interior of said body and gripping the body to hold the frame in place thereon.

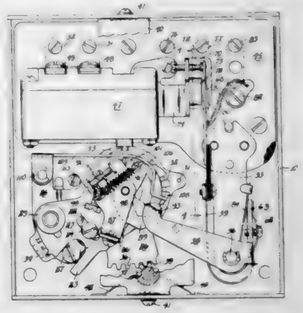
2,532,858
COOLING DEVICE FOR ELECTRIC DISCHARGE TUBES
Herre Rinia, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 7, 1948, Serial No. 25,705
In the Netherlands June 18, 1947
5 Claims. (Cl. 250—27.5)



1. A cooling device for an electron discharge tube of the type having a cylindrical wall to be cooled, cooling vanes extending substantially at right angles to said wall and parallel to the generatrices thereof, said device comprising a plurality of channels for the exchange of cooling medium, said channels extending transversely to the direction of said cooling vanes, and a plurality of adjacent rings of said cooling vanes, with separations between said rings of vanes, each of said separations being centrally disposed in front of one of said exchange channels.

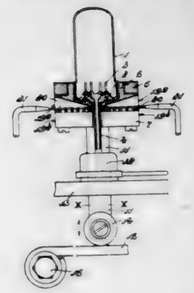
2,532,859
THERMOSTATIC SWITCH
John O. Rosche, Cedar Rapids, Iowa, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 2, 1947, Serial No. 745,368
16 Claims. (Cl. 200—139)

1. In a device of the class described, in combination, a fixed support, first and second members coaxially pivoted in said support, condition responsive means having portions connected to each of said members for angularly positioning said second member with respect to said first member, first and second control means carried by said support, said first control means being actuated by said second member at a value of the condition dependent upon the position of said first member with respect to said support, and an actuator for said second control means carried by said first member and rotatable there-



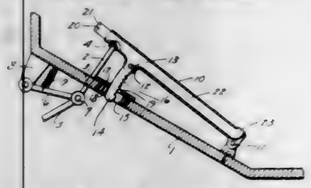
with, the portion of said actuator adapted to engage said second control means being movable transversely to the axis of said members on movement of said second member due to a change in the value of the condition.

2,532,860
APPARATUS FOR SEALING-OFF ELECTRIC DISCHARGE TUBES
Wilhelmus Antonius Roovers, Cornelis Frederik Veenemans, and Otto Louis van Steenis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 22, 1948, Serial No. 66,638
In the Netherlands January 22, 1948
3 Claims. (Cl. 49—2)



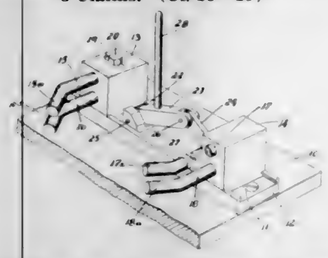
1. An apparatus for sealing-off an electric discharge tube having an envelope including contact pins and an exhaust tube which extend from the said envelope in substantially parallel relation, comprising a metal tube holder having spaced elongated recesses adapted for receiving said contact pins and a passageway adapted for receiving said exhaust tube and also having radial slots extending from the periphery of said holder inwardly to said passageway, said slots being positioned between said recesses and above the lower ends thereof and having a width less than the said spacing between the said recesses, and a partition in said slots forming separate passages therein and adapted to receive heating flames selectively from burners in alignment with said slots at the outer periphery of said tube holder.

2,532,861
THROTTLE CONTROL DEVICE
Paul Siever, Minneapolis, Minn.
Application December 5, 1946, Serial No. 714,284
3 Claims. (Cl. 74—542)

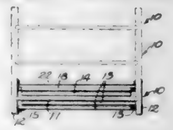


1. In a device of the class described, a foot pedal adapted to be pivotally mounted on the floor boards of a vehicle in a position to engage and actuate the accelerator, a ratchet pivoted to said foot pedal and adapted to work through an opening in the floor board, a pawl adapted to be secured to the floor board adjacent the opening, opposed long and short lever arms secured to said ratchet, said long lever arm extending from said ratchet in a direction to gravity bias said ratchet away from engagement with said pawl, said short lever arm terminating in a foot engaging portion adjacent one side of said foot pedal and adapted to effect engagement of said ratchet with said pawl when the same is depressed, said long lever arm terminating in a foot-engaging portion adjacent a different side of said foot pedal and adapted to disengage said ratchet from said pawl when the same is depressed, and means for varying the elevation of the foot-engaging portions on each of said lever arms with respect to said foot pedal.

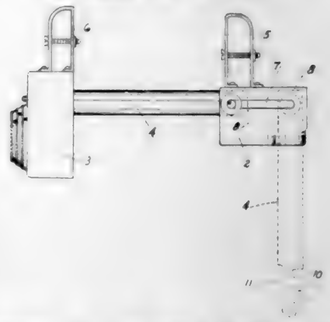
2,532,862
TUBE SIZING APPARATUS
Clarence E. Snyder, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 10, 1947, Serial No. 779,157
3 Claims. (Cl. 18—19)



1. Apparatus for simultaneously stretching a pair of open ends of a tubular unvulcanized article of rubber-like material to the same size preliminary to splicing them, said apparatus comprising a pair of spreading members, each member having a pair of spreading elements, all of said spreading elements having portions parallel to each other for engaging the tube at its open ends, and each pair of spreading elements having ends converging toward the elements on the opposite spreading member for engaging the tube remote from its ends to gradually reduce stretching, one element of each pair being adapted to enter one open end of the tube and the other element of each pair being adapted to enter the other open end of the same tube, the parallel portions of the elements adapted to enter each tube being spaced apart by equal amounts, means for spreading the members apart to stretch both ends of the tube simultaneously, and means engaging the spreading members for limiting the spreading movement.

2,532,863
COLLAPSIBLE BOX UNIT
Auburn Taylor, Charleston, W. Va.
Application January 8, 1945, Serial No. 571,899
1 Claim. (Cl. 217—14)

A collapsible box unit comprising, in combination, a wall structure including a pair of upright corner posts having means bridging the space between them and rigidly joining the same, a plurality of panels pivotally connected along their edges to a corresponding plurality of right-angularly related edge portions of said wall structure to swing from a collapsed position in which they are all stacked in parallelism to said back structure to an erected position in which each is normal to another, means for locking said panels in erected position, and the width of said posts being greater than the thickness of the stack formed by said panels when in collapsed condition, and said posts being disposed along the sides of the stack with the front and rear surfaces thereof disposed beyond the outermost panels of the stack so that a plurality of such units may be piled up in horizontal position one on another with the longitudinal surface of the posts of each unit resting on the longitudinal surface of the posts of the next one beneath and without contact between their panels.

2,532,864
MEANS FOR PREVENTING THEFT OF CYCLES
Manuil George Theodorackis, Johannesburg, Transvaal, Union of South Africa
Application January 12, 1948, Serial No. 1,696
In the Union of South Africa November 16, 1947
1 Claim. (Cl. 70—227)



A device for preventing theft of bicycles, motorcycles, tricycles and the like vehicles in which at least one wheel is provided with spokes and is supported between the arms of a fork or like two-armed structure, said device comprising a first holder adapted to be secured to one arm of the fork; a second holder adapted to be secured to the second arm of the fork opposite the first holder; a bolt which is slidably connected to the first holder and adapted to be temporarily locked to the second holder and to project while so locked through the wheel so as to arrest rotation of the latter; and means for temporarily locking the bolt to said second holder; said first holder comprising a materially U-shaped body portion which is provided with two slots, said slots being arranged parallel with and facing one another; pins in one end of the bolt movable in said slots to mount the bolt in said first holder; said first holder also providing, at that side of the opening of the U which is remote from the second holder, spring-like means to hold the bolt in a position in which said bolt extends materially at right angles to the main extension of said slots; said bolt locking means comprising adjustable mechanism of the combination lock type; said mechanism comprising a number of parallel recesses on the other end of the bolt and a corresponding number of annular, peripherally recessed, discs in the second holder; said discs being secured to and freely rotatable with concentric sleeves; each of said discs being arranged to co-operate with one of said bolt recesses.

2,532,865
LITHOGRAPHIC PRINTING PLATE
William Craig Toland, Brookline, Alger P. Reynolds, Wellesley, and Munroe H. Hamilton, Lexington, Mass.
Application May 1, 1946, Serial No. 666,505
4 Claims. (Cl. 101—149.2)

1. A lithographic printing plate comprising a base, a water-swellable coating on the base, greasy image portions fixed to the coating, said coating including a water-swellable material, melamine-formaldehyde resin and a water-soluble dibasic acid, said acid being dispersed throughout the coating in a finely divided solid state.

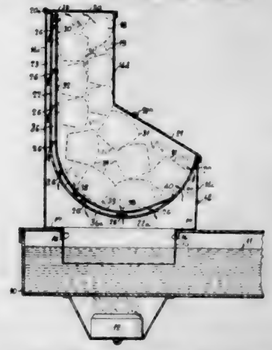
2,532,866
METHOD AND PLATE FOR LITHOGRAPHIC PRINTING
William Craig Toland, Brookline, and Munroe H. Hamilton, Lexington, Mass.
Application December 6, 1947, Serial No. 790,156
10 Claims. (Cl. 101—149.2)

1. An improved printing plate of the lithographic printing class for use in a printing machine wherein the surface of the plate is alternately moved into contact with a water roller and a greasy inking roller, said plate comprising a flexible base member, a thin hydrophilic coating of colloidal material bonded to the base member, said coating including at its exposed surface area relatively hard grease receptive printing portions and relatively yieldable water receptive non-printing portions, scum retardant means in the non-printing portions operative in the presence of moisture applied thereto from the water roller to repel adhesion of small amounts of greasy ink to the said non-printing portions when the latter are contacted by the inking roller, said scum retardant means comprising a water-soluble dibasic acid occurring in the form of a finely divided solid which is distributed throughout the non-printing portions.

2,532,867
SHADE ROLLER OPERATING DEVICE
Frank H. Toms, Detroit, Mich.
Application June 6, 1947, Serial No. 753,137
7 Claims. (Cl. 160—301)

6. An operating device for a shade roller having an internal operating spring and shaft, said operating device comprising a ratchet wheel connected to said shaft and having multiple teeth thereon, a pawl pivotally mounted on the end of said roller and having a shank extending partway around the periphery of said ratchet wheel, said pawl having a tip engageable with the teeth of said ratchet wheel, and a stop on the end of said roller engageable with said pawl for limiting the pivotal motion thereof, said stop and said shank having approximately C-shaped end portions lying one within the other with their extremities in engagement with one another in the unlocked position of said pawl, the tip of said pawl having a weight thereon arranged to overbalance the weight of the shank of said pawl on the opposite side of the pivot thereof.

2,532,868
BOTTOM DISPENSING STEAM FOOD CONDITIONER
Charles I. Van Cleve, Lynchburg, Va.
Application November 27, 1945, Serial No. 631,073
4 Claims. (Cl. 126—369)



1. In combination, a steam and vapor supply means; a food compartment comprising perforated and imperforate vertically disposed wall portions respectively, and a perforated bottom portion; an imperforate sheet portion spaced from and cooperating with the inside surface of said perforated wall portion to form an elongated vertically disposed conduit extending upwardly from said compartment bottom portion; a food replenishing inlet at the upper end of the compartment; a food dispensing outlet adjacent the compartment bottom portion; closure means for said inlet and outlet respectively; means for conducting steam and vapor from said supply through said perforated wall portion and into said vertically

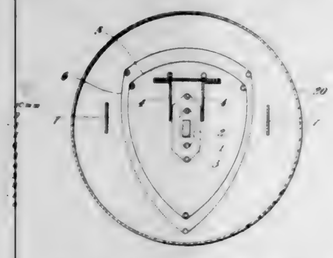
disposed conduit; and means disposed at the upper portion of said conduit for emitting steam and vapor from the conduit into the compartment whereby steam is emitted only at said last-named means and at said perforated bottom portion to thereby shield the food disposed intermediate the respective emitting means from the direct flow of steam and vapor.

2,532,869

MULTIGRID ELECTRON DISCHARGE TUBE

Adrianus Johannes Wilhelmus Marie van Overbeek and Jan Dorrestijn, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 17, 1949, Serial No. 76,886
In the Netherlands March 12, 1948
3 Claims. (Cl. 250—27.5)



1. An electric discharge tube comprising a cathode having an axis and an active surface of given width for generating a wedge-like beam of electrons, said beam having a plane of symmetry, first and second control grids in spatial relationship with said cathode, said second control grid having a grid plane and a radius of curvature, a screen grid interposed between said first and second control grids, and an electrode member in electrical connection with said screen grid, and in which tube the apical angle of the wedge-like beam generated by the cathode is less than about 20°, the spacing between the second control grid and the screen grid as measured in the plane of symmetry of the electron beam being at least one and one-half times the width of the said active surface of the said cathode, the perpendicular to the second control grid in the intersecting line of the said plane of symmetry and said grid plane making an angle of approximately 15° at most with the plane of symmetry, while the radius of curvature of the grid in a section at right angles to the axis of the cathode at the point of the perpendicular to the said intersecting line is equal to one and one-half to four times the said spacing.

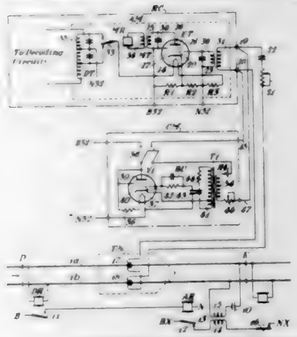
2,532,870

ELECTRONIC CODING MEANS FOR SIGNALING SYSTEMS

Carl Volz, State College, Pa., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 18, 1949, Serial No. 93,876
13 Claims. (Cl. 177—353)

1. In a signaling system, the combination comprising, a winding to be energized by an alternating current of a given frequency and coded by being periodically varied at a given code rate, a source of alternating current of said given frequency, a circuit to connect said source to said winding and including inductance and capacitance to tune the circuit to resonance at said given frequency, an oscillator generating an alternating voltage of a frequency equal to said code rate, a nonlinear device, another circuit to connect said oscillator and device in series to



controlled by traffic in advance

said winding in multiple with said source, and said another circuit varying the alternating current of said source supplied to said winding at a code rate equal to the frequency of the oscillator voltage due to said nonlinear device.

2,532,871

MACHINE AND METHOD OF FORMING A PACKAGE

Melvin Wagner, Ambler, Pa., assignor to Glenside Bag Company, Glenside, Pa., a copartnership

Application September 21, 1945, Serial No. 617,785
4 Claims. (Cl. 18—56)

1. In a method of forming a package, holding a portion of a sheet of thermoplastic material marginally, blowing hot gases into the interior thereof to expand and heat the thermoplastic material, forming it into a package of predetermined shape, regulating the temperature of the containing means in order to fix the shape of the thermoplastic material after it is so blown, rotating the thermoplastic bubble so blown to cause the portion thereof that is held marginally to be twisted just below where it is so held, and severing such material above the twist to remove the surplus thermoplastic material so held.

2,532,872

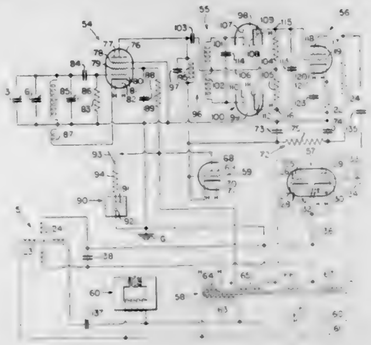
FREQUENCY RESPONSIVE MEASURING AND CONTROLLING APPARATUS

Rudolf F. Wild, Philadelphia County, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application May 26, 1944, Serial No. 537,505
25 Claims. (Cl. 318—28)

1. In combination, tuned high frequency discriminating means for producing zero output voltage in response to zero input voltage and in response to an oscillation of relatively high frequency corresponding to the tuning thereof and for producing a unidirectional output voltage in response to oscillations of other high frequencies,

the polarity of said unidirectional output voltage depending upon whether the frequency of said high frequency oscillations is greater or less than the value corresponding to the tuning of the frequency discriminating means, and means for utilizing an oscillation of relatively low frequency to apply to said discriminating means a first high frequency oscillation during predetermined time intervals of said low frequency oscillation and a second high frequency oscillation during other predetermined time intervals of said low frequency oscillation for producing zero oscillating output voltage from the discriminating means when the second high frequency oscillation corresponds to the first high frequency oscillation and for producing an oscillating output voltage at said low frequency from the discriminating means when the second high frequency oscillation differs from the first high frequency oscillation, the phase of said oscillating output voltage depending upon the polarity of the output voltage during said other predetermined time intervals.



9. In combination, high frequency discriminating means operative to produce an output voltage of one polarity or of opposite polarity depending upon whether the frequency of a high frequency oscillation applied thereto is greater or less than a predetermined value, means for generating a first oscillation of relatively high frequency, means for generating a second oscillation of relatively high frequency, and means operating at a relatively low frequency for alternately applying the first and second high frequency oscillations to the guiding member for preventing chattering.

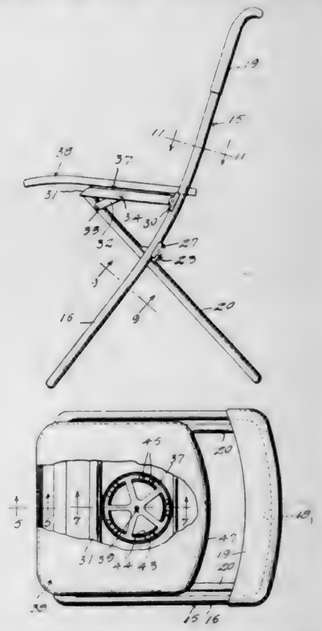
2,532,873

SWIVEL CHAIR

Albert Abramson and Harry Tillman Futrell, Houston, Tex.

Application August 5, 1946, Serial No. 688,446
1 Claim. (Cl. 155—142)

A collapsible chair comprising a combined back and front leg structure, a rear leg structure, means pivotally securing said structures together, a seat supporting plate pivotally secured at the rear thereof to said front leg structure, links pivotally connecting the forward portion of said plate to the upper portion of said rear leg structure, a seat having a central recess therein, said plate including an upwardly offset anti-friction ball race, a headed pivot bolt extending through said seat and said race the head of said bolt seating in said recess flush with said seat, an anti-friction ball cage between said race and said seat, and balls carried by said cage disposed between said race and said seat, said seat constituting an



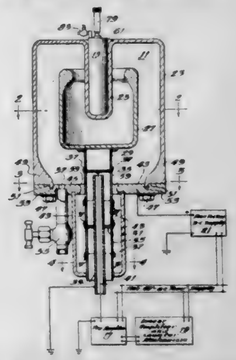
upper ball race engaging the balls above said ball cage.

2,532,874

DETECTION APPARATUS

Herbert L. Anderson, Hartford, Conn., assignor to the United States of America as represented by the United States Atomic Energy Commission

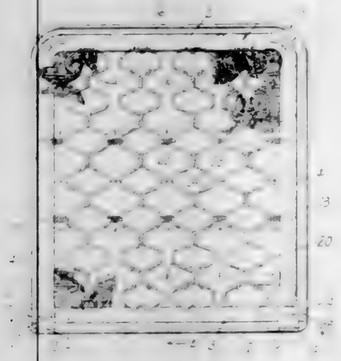
Application December 13, 1945, Serial No. 634,862
26 Claims. (Cl. 250—27.5)



1. An ion chamber for use in connection with apparatus of the class described, comprising an outer closure of a conductive material which is permeable to neutron particle radiation, said closure serving as one of the electrodes of said ion chamber and having a reentrant portion which defines a recess for containing a sample of material under test, and a generally cup-

shaped inner electrode supported within, and insulated from, said outer closure in such position that it surrounds said reentrant portion.

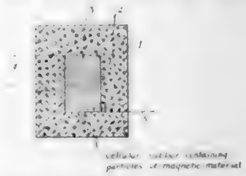
2,532,875
SPRING STRUCTURE
Vito Asaro, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich., a corporation of Michigan
Application November 12, 1946, Serial No. 709,253
10 Claims. (Cl. 155—179)



1. In a spring structure the combination of a base frame comprising front, rear, and end members formed of sheet metal folded upon itself to provide a tubular body portion, the edges of the sheet metal being extended in side by side overlapping relation and welded together to provide a double ply flange, the under ply being extended beyond the upper ply and terminating in an upwardly projecting spring attaching flange, the flanges of the front and rear members having longitudinally spaced slots therein, the front and end members being formed integrally, the rear ends of the end members and the ends of the rear member being flattened, superimposed and welded together with their ends projecting, a continuous upholstery attaching frame of wire comprising front, rear, and end members, embracing said base frame in outwardly spaced relation thereto with its end members welded to the projecting ends of the rear base member and its rear member welded to the projecting ends of the base frame end members, the base frame being provided with arms at its front corners to which the front corners of said upholstery frame are secured, and upwardly bowed zigzag spring elements having arms at their ends engaged with the spring attaching flanges of the front and rear members of said base frame through the said notches thereof, portions of said spring attaching flanges being clamped upon the arms of said spring elements.

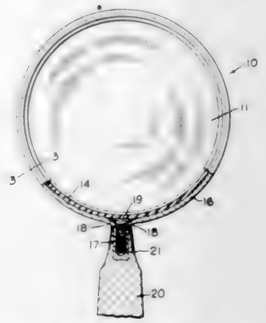
2,532,876
ELECTROMAGNETIC ARTIFICIAL MUSCLE
Robert Asche and Jean Jacques Hubscher, Neuilly sur Seine, France
Application December 8, 1947, Serial No. 790,326
In France December 19, 1946
3 Claims. (Cl. 172—126)

1. An artificial muscle composed of paramagnetic metal particles and an elastic material possessing rubber-like as well as insulating properties that separates the said particles in combination with means to create a magnetic field adapted to influence the said paramagnetic metal particles,



said elastic material possessing rubber-like properties having a cellular form.

2,532,877
MOUNTING FOR READING GLASSES OR THE LIKE
Wilhelm Auer, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 15, 1948, Serial No. 27,228
5 Claims. (Cl. 88—39)

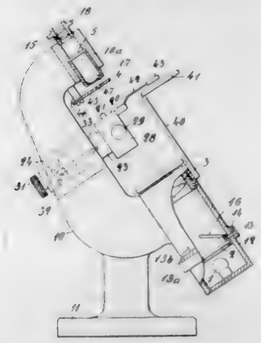


4. A reading glass or the like comprising a lens, a band of non-metallic resilient material encircling the edge of the lens, an endless metallic member encircling the band and in snug engagement therewith, said member having an aperture, a headed screw projecting outwardly through the aperture with the head of the screw positioned between the band and the member, and a handle threadedly secured to the projecting end of the screw.

2,532,878
DEVICE FOR MEASURING THE DISTANCE BETWEEN THE OPTICAL CENTERS OF TWO OR MORE LENSES OR OPTICAL SYSTEMS
Tage Gunnar Aulin, Trollhattan, Sweden, assignor to J. P. Brandt Aktiebolag, Stockholm, Sweden, a company of Sweden
Application April 5, 1945, Serial No. 586,726
In Sweden July 8, 1944
3 Claims. (Cl. 88—56)

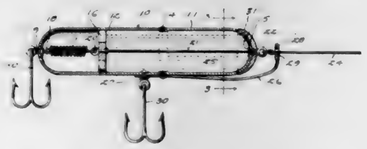
1. An apparatus for measuring the distance between the optical centers of two spaced and juxtaposed optical systems mounted in a frame comprising in combination a lamp for producing a light beam, a reticle in the path of said light beam, an ocular arrangement containing a hair-cross-like index, a stand in which said lamp, reticle and ocular arrangement are mounted, supporting means for holding the optical systems to be examined, said supporting means being arranged between the reticle and said ocular arrangement

and being apertured to enable said light beam to project through each of said optical systems in turn, means for displacing said supporting means in two directions at right angles to each other and to said light beam for the purpose of introducing and centering first one of said optical systems and after displacing said supporting means in one or both of said directions the other of said optical systems in said light beam, measuring means for measuring the displacement of said



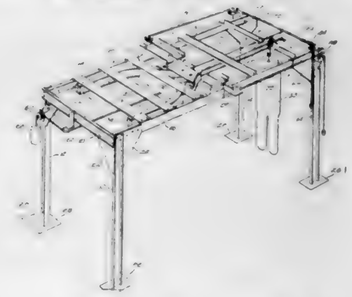
supporting means in each of said directions, focussing means for focussing an image of said reticle in the plane of said hair-cross said focussing means consisting of a lens arranged between said reticle and said supporting means in the path of said light beam, means for displacing said reticle along the optical axis of said lens and means for measuring the axial displacement of said reticle for the purpose of determining the focus and power in dioptrics of each of said optical systems.

2,532,879
FISH LURE
Lester W. Baker, Fort Worth, Tex.
Application May 6, 1948, Serial No. 25,430
3 Claims. (Cl. 43—42.06)



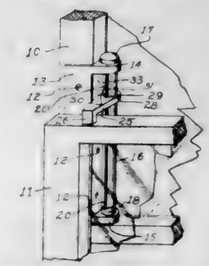
1. A fish lure of the kind described comprising a hollow cylindrical body for enclosing a fluid therein and formed with fluid discharge ports at one end thereof, a piston slidable in said body, a spring engaging said piston and constantly urging said piston towards the other end of said body, a rod fixedly connected to said piston and extending slidably through said one end of said body, a valve member fixed on said rod for closing said ports in the spring biased position of said piston, means limiting the sliding of said rod to a distance substantially less than the distance from said piston in spring biased position to said one end of said body, and means connecting said rod to a fishing line for reciprocating said piston against the spring tension thereby opening said ports and discharging the fluid therefrom.

2,532,880
FOOTBALL PRACTICE APPARATUS
Richard H. Banbury, Hartford, Conn.
Application January 23, 1946, Serial No. 642,807
10 Claims. (Cl. 273—55)



1. In a football practice apparatus, the combination of a main supporting framework, a movable carrier for a tackling dummy, means for moving the carrier and dummy in a generally longitudinal forward direction, and manually adjustable means supported by the framework for guiding the carrier and dummy along optionally different paths during the generally longitudinal forward movement thereof.

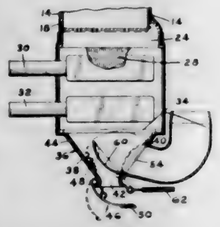
2,532,881
SAFETY LOCK FOR WINDOW SASHES
Emmett A. Barnes, Marietta, Ohio
Application December 23, 1946, Serial No. 718,007
1 Claim. (Cl. 292—63)



A safety lock for sliding sash windows, comprising a bracket adapted to be secured to a vertical side of the top sash and having two vertically spaced lugs arranged to position over the bottom horizontal rail of the sash, said lugs each having an opening therethrough, the lug openings being vertically aligned, the opening of the top lug having an offset portion, a bolt extending thru the openings of and coupling said lugs, a key extending lengthwise of the bolt and terminating short of each end of the bolt to leave a portion of each end of the bolt of circular form for turning in a lug opening, said key being slidable in the offset portion of the top lug, the circular end portion at each end of the bolt being in a lug opening when the bolt is extended downwardly to the limit of its movement thru the lugs whereby the bolt may be turned to move the top end of the key from alignment with the offset, and a locking arm having a circular opening in one end to receive the bolt, said arm opening having a key way, the arm being of a length to extend from the bolt across the top rail of the lower sash, the arm in its lowest position on the

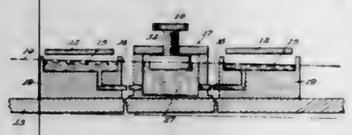
bolt engaging the circular lower end portion of the bolt whereby the bolt may be turned to locate the lower end of said key over the arm out of line with the arm opening key way.

2,532,882
HEATING AND VENTILATING APPARATUS
Robert D. Beatty, Jr., Shaker Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 28, 1946, Serial No. 693,454
6 Claims. (Cl. 98—2)



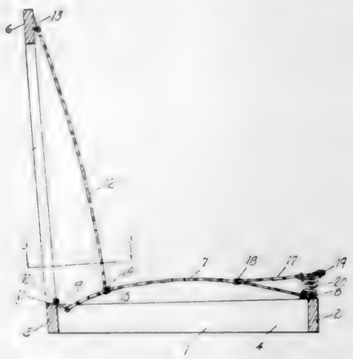
1. An air distributor and silencing means for heating and ventilating apparatus of motor vehicles comprising a housing having an air intake connection at one end thereof, a wall angularly disposed in facing relation to the air intake end, and a pair of parallel side walls secured to the angular wall forming a discharge opening facing the angular wall, an outlet duct mounted upon the housing in open communication with the discharge opening having an equi conical cross sectional passage communicating with the discharge opening and tapering away therefrom to an elongated aperture extending lengthwise with the walls of the housing, and defroster outlets, defroster ducts extending from the outlet duct at the defroster outlets, and a manually controlled air directing means mounted upon the outlet duct operable to close the defroster outlets in one position and to close the aperture in its other opposite position.

2,532,883
CONDENSER MEANS FOR MEASURING LEVEL CONDITIONS
Paul L. Bennett, Burbank, and Leland A. Bryant, Los Angeles, Calif.; said Bennett assignor to said Bryant
Application April 30, 1945, Serial No. 591,176
17 Claims. (Cl. 33—209)



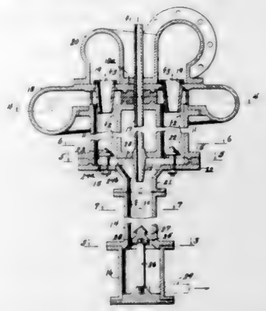
1. Measuring apparatus comprising means forming a pool of liquid having remote surface portions extending at spaced measuring stations, a cooperating measuring member at each station, support means to support the members above the surface portions of the pool and in known relation with respect to an object to be leveled, and means to measure the capacity, between each of said members and the cooperating surface portions of said pool.

2,532,884
SPRING SEAT AND BACK STRUCTURE
Charles Frederick Benson, Jackson, Mich.
Application March 30, 1946, Serial No. 658,465
7 Claims. (Cl. 155—179)



7. In a seat and back structure, a seat frame, a back frame, a plurality of upwardly bowed seat springs supported at their ends on said seat frame, a plurality of vertically disposed forwardly bowed longitudinally extensible back springs having their lower ends connected to said seat springs in substantially spaced relation to the point of support of the rear ends thereof, the upper ends of said back springs being connected to said back frame in vertically spaced relation from the seat frame, each of the back springs comprising a series of looped portions spaced longitudinally of the spring, with each looped portion extending transversely of the general direction of the spring, to facilitate longitudinal extension and compression of the spring.

2,532,885
VORTEX TYPE SEPARATOR FOR PAPER PULP
André Charles Bergès, Mimisan-Plage, France
Application April 9, 1948, Serial No. 19,932
In France April 11, 1947
11 Claims. (Cl. 92—28)

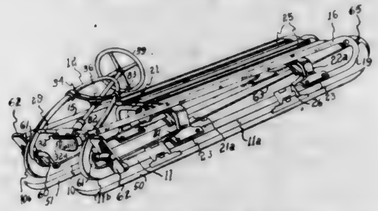


1. A vortex type separator for paper pulp, comprising an upright cylindrical collecting chamber open at its upper end, a base plate mounted on top of the collecting chamber and having therein a central circular opening constituting an upward continuation of the collecting chamber, a plurality of upright cylindrical vortex vessels mounted on the base plate and grouped closely around the central opening therein, each vortex vessel having, at its upper end, a tangential inlet for introducing pulp under pressure into the vessel and a central outlet for withdrawing purified pulp from the vessel in an upward direction, having a blind lower end containing a central upstanding baffle defining, with the inner wall of the vessel, an annular dirt-collecting zone and having at its lower end a side outlet for discharging dirt-laden liquid tangentially from its annular dirt-collecting zone into the central opening in said base plate and thence into the upper end of the collecting chamber, and a central outlet at the upper end of the collecting chamber for withdrawing upwardly therefrom good stock which may be separated from the dirt as the result of vortex formation in the collecting chamber.

2,532,886
SCREEN STRUCTURE
Pasquale P. Bianchi, Barrington, R. I.
Application November 7, 1947, Serial No. 784,743
2 Claims. (Cl. 160—354)

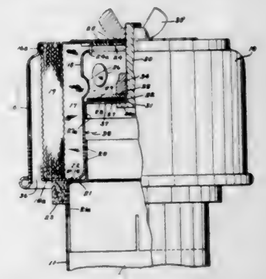
1. A screen structure comprising upper and lower rectangular frame members of spring metal construction, a foraminous cloth secured to each of said frame members, outer resilient frames completely embracing and concealing said frame members and having slits therein receiving the marginal edges of said cloth, the frame of said lower frame member including an upper portion having a reduced extension, the frame of said upper member including a lower portion having a groove yieldingly receiving said extension, and side strips integrally formed with said frames.

2,532,887
SLED CONSTRUCTION
Bruno J. Bor, Chicago, Ill.
Application November 2, 1945, Serial No. 626,197
4 Claims. (Cl. 280—21)



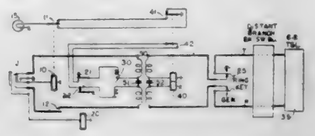
1. In a sled, a pair of parallel runners having their forward ends extending upwardly and joined together, a pair of side rails having downwardly curved rear end portions merging with the rear end portions of said runners, a plurality of U-shaped arches connecting said runners and said side rails, auxiliary runners removably and movably mounted on said first mentioned runners, a journalled longitudinal shaft, a manually operable steering shaft operatively connected to said shaft; and a plurality of cable means connecting said longitudinal shaft and said auxiliary runners whereby rotation of said shaft will move said runners transversely to permit guiding of said sled.

2,532,888
CRANKCASE PRESSURE CONTROL
Richard E. Brown, Cleveland, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application December 9, 1948, Serial No. 64,392
4 Claims. (Cl. 121—194)



1. In combination with a crankcase having a breather pipe, a cap of downwardly opening cup shape adapted to fit over the upper end of said breather pipe, an annular series of openings through said cap, a flexible valve overlying said openings on the upper face of said cap, and means securing the center of said valve to said cap.

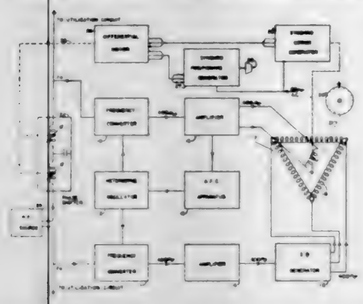
2,532,889
TIE LINE CIRCUIT ARRANGEMENT
Karl L. Burgener, Villa Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 8, 1946, Serial No. 646,468
14 Claims. (Cl. 179—51)



1. In a trunk circuit having a pair of conductors, a winding, a circuit connected in bridge of said conductors through said winding, an incomplete circuit, a jack having terminals, a relay connected to one of said terminals and operated thereover for disabling said first circuit and for bridging said incomplete circuit across said conductors through said winding, a relay operated over said trunk circuit for completing said incomplete circuit bridged across said conductors, said last completed circuit thereafter controlled by said last relay.

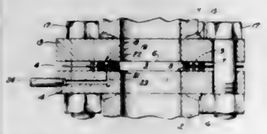
2,532,890
PHASE MONITOR
Clemens X. Castle, Silver Spring, Md., assignor to Raymond M. Wilmotte, New York, N. Y.
Application April 8, 1946, Serial No. 660,325
13 Claims. (Cl. 323—105)

1. Apparatus for monitoring the phase relationship between two alternating currents of the same radio frequency comprising means for converting the alternating currents to two currents of the same audio frequency, means for causing one of said two audio frequency currents to produce a rotating magnetic field, a rotatable electromagnet positioned in the rotating magnetic field, means for energizing the rotatable electro-



magnet with the other of the two audio frequency currents, whereby the electromagnet is rotated to an angular position corresponding to the phase relationship of the two alternating currents, and means for varying the phase difference between the two alternating currents in response to the rotation of the electromagnet.

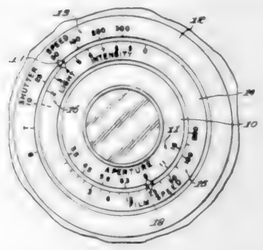
2,532,891
FLANGED JOINT SEALING GASKET
Warren W. Chupp, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 23, 1948, Serial No. 50,721
5 Claims. (Cl. 285—130)



1. A gasket seal comprising a first and a second ring of rubber-like material radially spaced to form an annular cavity therebetween, a centrally apertured member disposed in said annular cavity for supporting said rings in relatively fixed relation, and a mechanical stop element carried by said member, said stop having a height less than the undeformed height of said rings and greater than the height at which said rings fail during deformation.

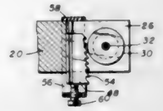
2,532,892
APERTURE METER
William Eugene Clark, Arkansas City, Kans.
Application October 11, 1949, Serial No. 120,683
1 Claim. (Cl. 235—64.7)

As a new article of manufacture, a photographic computing device comprising a first fixed ring having a scale of calibrated lens aperture values thereon, a second fixed ring arranged in spaced concentric relation about said first ring and having a scale of calibrated shutter speed values, a third ring movably mounted between said first and said second rings, said third ring having a scale of calibrated light intensity values and a scale of calibrated film speed values thereon, a first pointer positioned between said first and third rings, and a second pointer positioned between said second and third rings said pointers being movable between peripheries of said rings, said first pointer coacting with the scales on said



first and third rings, and said second pointer cooperating with the scales on said second and third rings.

2,532,893
CABLE HOLDER
Thomas A. Crotty, Erie, Pa.
Application February 10, 1947, Serial No. 727,577
5 Claims. (Cl. 254—192)

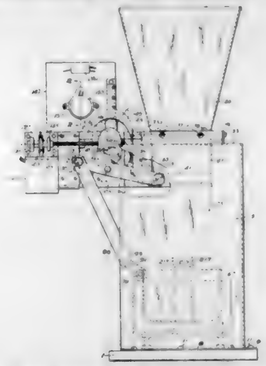


1. A cable clamp comprising a body portion having attaching means and a bifurcated portion at one end thereof, a pulley secured within the outer portion of said bifurcated portion, a cable engaging member transversely slidably mounted within the inner portion of said bifurcated portion, and means on said body portion to forcibly shift said member while the same is in engagement with a cable on said pulley, said means including a U-shaped clamp selectively securable in two positions on said body portion and having lugs to hook over the edges of the body portion in alignment with said member, and a set screw carried by said clamp and adapted to engage selectively the opposite ends of said member, whereby the member may be shifted in two directions relative to the body.

2,532,894
COOKING MACHINE
Leslie W. Currier, Jr., Kingston, N. H.
Application May 15, 1947, Serial No. 748,315
20 Claims. (Cl. 99—407)

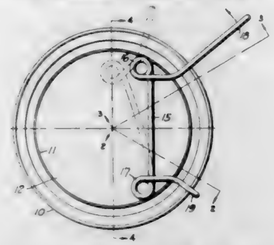
1. A cooking machine having, in combination, a container for hot cooking liquid, a basket for the articles to be cooked, power operated means for moving the basket relative to said container through a cycle which removes it from such liquid and then replaces it therein, an operator controlled variable timing device, and means con-

trolled by said timing device for causing, at selected substantially regular intervals of greater



duration than such cycle, said power operated means to so move said basket.

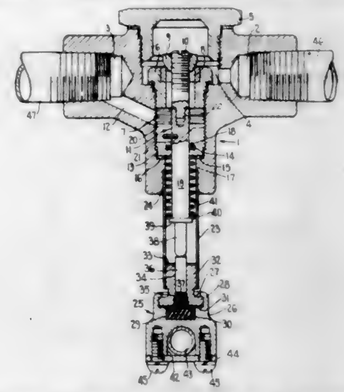
2,532,895
PAINT CAN ATTACHMENT
Eugene C. Day, San Mateo, Calif.
Application April 16, 1947, Serial No. 741,893
3 Claims. (Cl. 220—90)



1. In a device adapted to be inserted in the mouth of a paint can having an inwardly extending lip, a wiper strip, means for attaching said wiper strip to said can including a pair of helical springs formed integrally with said wiper strip and adjacent the ends thereof and extending at right angles to the longitudinal axis of said wiper strip, one of said spring portions terminating in a handle adapted to extend outwardly of said can when said device is inserted in the mouth of said can, the other of said spring portions terminating in a hook adapted to extend over said lip and engage the outer surface of said can when said device is positioned in said can with its adjacent spring portion engaging the lip of said can, said second spring serving to urge said first spring and said handle into engagement with the lip of said can and to retain the same in that position, said spring portions also presenting a plurality of grooves adapted to engage said lip whereby the depth of said wiper strip within said can opening may be predetermined.

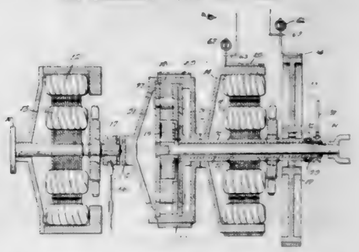
2,532,896
TEMPERATURE OPERATED VALVE
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application December 6, 1944, Serial No. 566,803
6 Claims. (Cl. 236—99)

1. A thermostatic valve, comprising a tubular supporting member, a temperature responsive power element carried by one end of said supporting member, said element having a cavity and having a hollow extension fitting within said supporting member, temperature responsive material in said cavity, said cavity being alined with the bore of said extension, pressure responsive means sealing said bore, a plunger seating on and movable by said responsive means and guided in said bore, a valve casing carried by the other end of said supporting member and having a valve port, a valve member in said casing for controlling flow through said part, a two-part operating



rod alined with and movable by said plunger and extending through said port, said valve member being screw-threadedly secured to one of the parts of said rod, said rod being separable and rigidly screw-threaded together for operation, a guide member carried by the other part of said rod and operable to hold said other rod part against rotation for separation of the rod parts whereby said valve member can be removed, and spring means acting through said rod in opposition to movement of said rod by said responsive material.

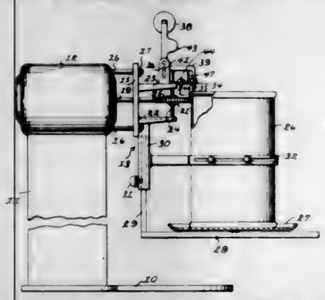
2,532,897
ELECTROMECHANICALLY CONTROLLED PLANETARY TRANSMISSION
Adiel Y. Dodge, Rockford, Ill.
Application September 10, 1945, Serial No. 615,372
12 Claims. (Cl. 74—686)



1. A transmission for connecting driving and driven shafts comprising a planetary differential gear set having a plurality of relatively rotatable elements, one of said elements being connected to the driven shaft, clutch means to connect another of the elements to the driving shaft, a one-way brake to hold a third of the elements against rotation in one direction, infinitely variable torque multiplying means connecting said third element to the driving shaft.

and control means for the torque multiplying means and the clutch means operable in one position to render the one-way brake ineffective thereby to cause the third element to drive the torque multiplying means and through it the driving shaft forward, in a second position to render the torque multiplying means ineffective thereby to disconnect the driving shaft from the third element, and in a third position to render the torque multiplying means effective to cause the driving shaft to drive the third element forward.

2,532,898
ELECTRIC CAN OPENER
George Rico Drugman, West Palm Beach, Fla.
Application October 22, 1947, Serial No. 781,273
2 Claims. (Cl. 30—4)



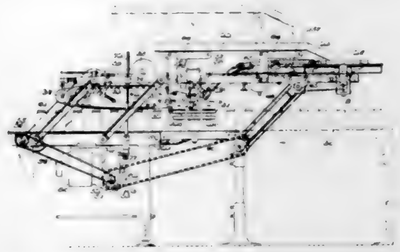
1. An electric can opener comprising a base, an upright support extending upwardly from the base, an electric motor secured to the upper end of the upright support, a shaft extending from the motor and having a pinion thereon, a bracket construction secured to the housing of the electric motor and on the end thereof from which the pinion shaft extends, said bracket construction including a vertically-extending plate, a sleeve depending from the plate and said bracket construction having two parallel vertically spaced extensions supporting a wheel adapted to be rotated by the pinion, a support on the bracket construction, said support being adjustable in the sleeve, and means for retaining the support in any of its adjusted positions therein, a turn table on the support adapted to receive the can, a knife movable on the bracket construction for insertion within the top of the can while the can is in position on the turn table to be rotated, a manually operable means for causing the downward thrust of the knife into the can, an extension on the bracket construction for the knife, said extension having an electric switch thereon, a member extending from the blade and adapted to operate the switch to start the motor automatically as the knife is urged into the can, an operating lever adapted to engage said member to operate the knife, and biasing means for returning the member and the knife when the operating lever is removed from its engagement with the member on the knife.

2,532,899
AERODYNAMIC LIFTING DEVICE
Charles Dubost, Lancey, France
Application January 3, 1947, Serial No. 720,071
In France August 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 24, 1965
9 Claims. (Cl. 170—1.5)

1. An aerodynamic lifting device for aircraft and the like, comprising a substantially cylindrical rotor adapted to rotate about a substantially horizontal axis; turbine means to rotate said rotor; a gutter surrounding the lower part of said rotor in spaced relation to the periphery thereof; and means to conduct the draft of

exhaust gases from the turbine into the space between said rotor and said gutter transversely of the axis of said rotor and in a direction opposed to the peripheral speed of said rotor within said gutter.

2,532,900
CONTAINER CAPPING STRUCTURE
Edward M. Enkur, Babylon, N. Y., and Leo F. Pahl and Louis L. Lauve, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application November 6, 1944, Serial No. 562,110, which is a division of application Serial No. 351,004, August 3, 1940. Divided and this application December 17, 1945, Serial No. 635,552
3 Claims. (Cl. 226—80)

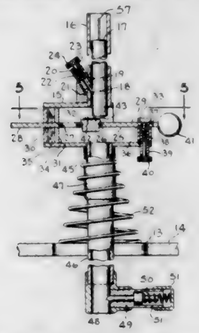


1. The combination in a container capping apparatus, of a base, a container supporting conveyor movable on said base, a support above said conveyor, an endless belt capping element carried by said support and including a substantially horizontal run, a second endless belt of bodily flexible material movable about and with said first belt, a member pivoted on said base in advance of the infeed end of said first-named belt to move vertically with respect to said first belt, and a pulley journalled on said member to support the infeed end of said second belt.

2,532,901
FUSEE LIGHTING AND LAUNCHING DEVICE
John J. Glynn, Chicago, Ill.
Application October 6, 1947, Serial No. 778,239
10 Claims. (Cl. 246—215)

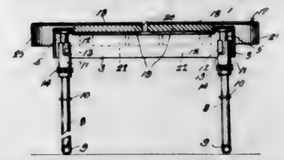
1. The combination with a rail car having an opening in its floor, of a fusee holder mounted within said rail car, manually controlled means for holding a fusee in said holder, means associated with the holder for igniting the fusee while positioned in said holder in said rail car, and a discharge tube for gravity discharge of the fusee from said holder extending from said holder through said opening for directing the lighted fusee, on the release of said holding means after the operation of said igniting means, down onto

the roadbed, said igniting means being formed to provide a clearance space for the fusee alined



with said discharge tube on the launching of said fusee through said tube.

2,532,902
TABLE TOP AND SUPPORTING FRAME
Lewis M. Greenway, Lansdowne, Pa.
Application October 27, 1947, Serial No. 782,313
1 Claim. (Cl. 311—106)



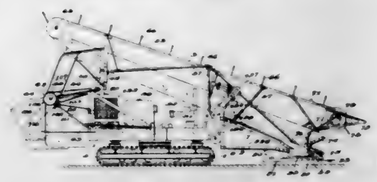
A table comprising a rectangular frame having an opening therethrough, said frame having side strips meeting at corners of the frame and having depending portions along their outer side edges constituting a deep apron for the frame, said strips having short depending flanges along their inner side edges and horizontal lips extending from lower edges of the flanges constituting a ledge about the inner margin of the frame spaced downwardly a short distance from the upper surface of the frame, blocks in corner portions of the frame mounted against under faces of the side strips in bridging relation to the meeting ends of the side strips abutting engagement with the apron and the flange and serving to brace connected ends of the side strips and also serving as members to which legs may be attached, and a top overlying said frame and having a downwardly extending skirt about its periphery, said top carrying a depending panel fitting snugly in the opening of the frame with its marginal portions removably resting upon said ledges and in abutting engagement with the flanges of the strips.

2,532,903
METHOD OF WEAVING PILE FABRICS
Francis P. Groat, Bloomsburg, Pa., assignor to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania
Application February 2, 1949, Serial No. 74,143
5 Claims. (Cl. 139—39)

5. The method of weaving on a wire loom a pile fabric floor covering having a warp pile face comprising high and low loops which comprises inserting into a shed a non-cutting pile wire having a straight loop forming edge, weaving the pile warps over said wire to form a weftwise row of loops, inserting into a subsequent shed a non-cutting wire of less height than said first wire having a straight loop forming edge with a raised portion at its end, selectively weaving the pile warps over said last mentioned wire to form a weftwise row of loops of less height

than said first row of loops, withdrawing said first mentioned wire and then withdrawing said second mentioned wire to increase the height of the loops thereon whereby the loops in the first row of the same pile warps as the loops in said second row are reduced in height.

2,532,904
CANE HARVESTING MACHINE
Thomas A. Guild, Waipahu, Territory of Hawaii
Application January 25, 1946, Serial No. 643,324
20 Claims. (Cl. 56—17)



1. A machine for harvesting cane growing in a tangled condition, said machine being provided at its forward end with a plurality of cutting means, one of said cutting means operating in a position to sever the tangled cane from the ground and the other of said cutting means being positioned at the sides of said machine close to the ground to sever the cane freed from the ground from cane growing into the path of forward movement of said machine to thereby form a swath of tangled cane, an upwardly and rearwardly extending incline to receive said swath of tangled cane, and means cooperating with said incline to insure movement of said swath along said incline as the machine moves forwardly.

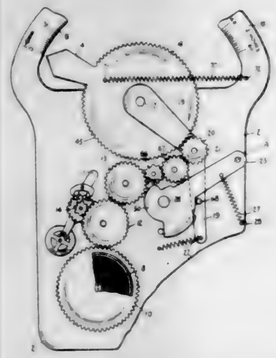
2,532,905
SELF-ADJUSTING ROCKER ARM
Sidney W. Hall, San Antonio, Tex.
Application February 1, 1949, Serial No. 73,952
9 Claims. (Cl. 74—519)

9. A self-adjusting rocker arm comprising oppositely disposed contact fingers, said fingers being mutually disconnected, a hollow bearing hub on each of said fingers for receiving a transverse shaft, opposing contact surfaces on each of said

fingers, said surfaces being inclined to the axis of said hubs, means surrounding said shaft and

acting laterally on said rocker arm to resiliently hold said contact fingers together.

2,532,906
CUMULATIVE INDEXING MECHANISM
Gerald A. Hale, Oklahoma City, Okla.
Application May 7, 1949, Serial No. 91,977
10 Claims. (Cl. 161—15)

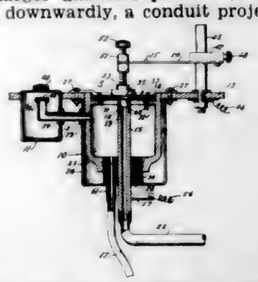


1. In a cumulative time re-set mechanism for automatic power-driven parking meters comprising an indicator releasable to move in one direction relative to a time scale, a ratchet disc having a plurality of teeth thereon, locking means provided for the engagement of the ratchet disc with the indicator for a simultaneous movement thereof in the said direction, stop pawl means movable into the path of the movable ratchet disc for limiting the movement of the indicator in the said direction, means for disengaging the locking means from the indicator, and means for moving the ratchet disc in an opposite direction from that of the first mentioned direction independently of the indicator.

2,532,907
METHOD AND APPARATUS FOR ELECTROLYTICALLY TREATING METAL SURFACES
Clarence W. Hangosky, East Lansing, Mich.
Application September 18, 1946, Serial No. 697,765
26 Claims. (Cl. 204—143)

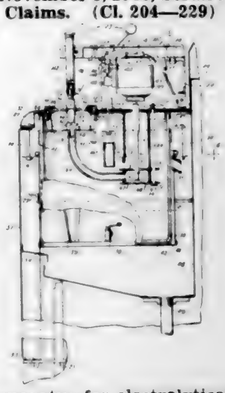
10. The method of anodically removing metal from the surface of a metal object which comprises the steps of moving a non-particulated column of electrolyte upwardly through an opening in a horizontal stage toward said object, controlling the flow of the electrolyte in said column so that in the absence of the object, the crest extends above the top surface of the stage and is characterized by having a smooth-surfaced, convex form, contacting the object with said stream, removing electrolyte which has contacted the object by conducting it radially outwardly, and passing electric current through said stream with said object connected as anode.

14. In apparatus for anodically removing metal from the surface of a metal object, the combination of a substantially horizontal stage having a frusto-conical, vertical opening therethrough with the larger diameter portion of the opening facing downwardly, a conduit projecting up-



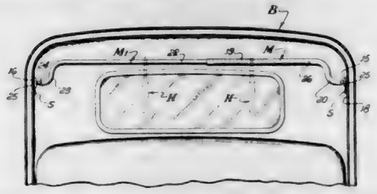
wardly into the lower portion of said frusto-conical opening and terminating short of the top surface of said stage, but having the upper end of the conduit spaced from the walls of said opening to provide a passageway therebetween, and means for forcing a column of electrolyte upwardly through said conduit with sufficient force to cause the crest of the column to extend above the top surface of the stage.

2,532,908
ELECTROLYTIC PROCESSING APPARATUS
Clarence W. Hangosky, East Lansing, Mich., and Carl S. Hornberger, Glen Ellyn, Ill., said Hornberger assignor to Central Scientific Company, a corporation of Illinois
Application November 8, 1946, Serial No. 708,580
6 Claims. (Cl. 204—229)



1. In an apparatus for electrolytically treating metal surfaces, an apertured plate for supporting a metallic object to be treated, means containing a body of electrolyte beneath said plate, means for projecting a column of electrolyte from said body onto the exposed surface of the object overlying the aperture in said plate, a main circuit including said body of electrolyte, said column and said object arranged to pass an electric current between said column and said object across said exposed face of said object, a first relay having contacts included in said main circuit for controlling the latter, auxiliary circuit means actuated by the impingement of electrolyte upon said object for controlling said first relay to close said main circuit, whereby energization of said main circuit is dependent upon the column of electrolyte being in contact with said object, a transformer, means for producing a rectified direct current from the transformer, a second relay having contacts for connecting the rectified current to said main circuit, a control circuit including a timer for actuating said second relay, and a plurality of hand-operated switches in series in said control circuit, said switches being normally biassed to open position and being spaced apart a distance greater than can be spanned with a human hand.

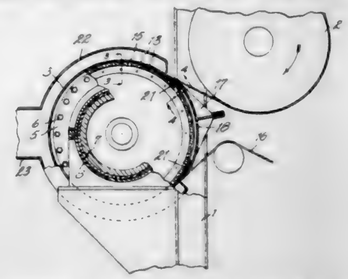
2,532,909
WEARING APPAREL SUPPORT
James F. Hart, Bishop, Calif., assignor of one-half to Alberta M. Talmadge, Bishop, Calif.; Jo Ann Hart administratrix of said James F. Hart, deceased
Application May 13, 1946, Serial No. 669,313
1 Claim. (Cl. 224—42.1)



An apparel support adapted for use in the body of an automobile including; a pair of elongated elements circular in cross section and telescoped one within the other, said elements having linear portions and downwardly and laterally turned portions at the distal ends of the linear portions, and feet carried by the free ends of said downwardly turned portions so as to be disposed in planes intersecting the planes of said downwardly turned portions, one of said elements being tubular and having an abutment fixed therein between the ends thereof, and a coiled expansible spring housed within said tubular element and bearing at its ends against the abutment and the confronting end of the other element for urging the two elements apart to maintain said feet in engagement with the vertical side walls of an automobile body with the downturned portions extending upwardly from the feet so that the linear portions will be arranged above the downward portions and adjacent the top of the body, all of said portions being transversely rigid so that the weight of articles supported thereon will be transmitted downwardly and outwardly to said feet to force the latter into more firm engagement with the body walls.

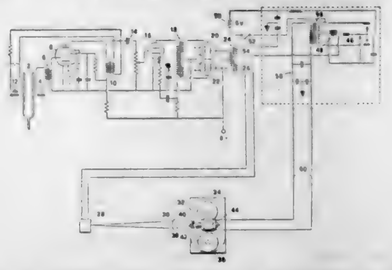
2,532,910
APPARATUS FOR DRYING PAPER, PAPERBOARD, PULP, AND THE LIKE
Ralph A. Hayward, Parchment, Mich., assignor to Kalamazoo Vegetable Parchment Company, Parchment, Mich.
Application September 2, 1947, Serial No. 771,740
5 Claims. (Cl. 34—68)

1. A drying roll adapted to be mounted in a paper drying machine comprising a hollow cylindrical roll member defining a plurality of radially extending apertures opening to the outer surface thereof, and counter-sunk at their outer ends, the outer surface of said roll member being spirally grooved, a wrapper wire wound in said spiral groove and projecting thereabove by one-half the thickness of said wire, the pitch of said spiral groove and wire being slightly greater than the diameter of the wire whereby several successive turns of the wire bridge each of the countersunk ends of said apertures in transversely spaced relationship, a hollow roll end member secured to one end of said roll member



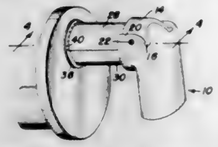
and forming a hollow journal adapted to be supported in said machine, a rotating gland member secured to the end of said journal, and a vacuum pipe communicating with said hollow journal and having a fixed gland cooperating with said rotating gland member.

2,532,911
DRIVE FOR SEISMOGRAPHIC RECORD STRIPS
Robert L. Henson, Jr., and John W. Millington, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application December 3, 1947, Serial No. 789,426
2 Claims. (Cl. 318—329)



1. In combination, means for advancing a record strip, a synchronous motor for driving said advancing means, a vibrating reed inverter for supplying alternating current for driving said synchronous motor, said inverter including an electromagnetic driving device for its reed and contact means engageable by said reed, a low voltage current supply, connections between the low voltage current supply, said driving device and said contact means through which said current supply would drive said reed at an approximately constant frequency, a tuning fork, driving means for the tuning fork, an amplifier supplying alterating current at relatively low power at the tuning fork frequency, means supplying said alternating current to said connections to maintain vibrations of said reed at the tuning fork frequency, thereby to control the frequency of the alternating current supplied by said inverter, and a synchronous motor for driving a timing device adapted to space timing markings on said record strip, said last mentioned synchronous motor being connected to said amplifier and enforcing precise uniform spacing of said timing markings.

2,532,912
CRANKSHAFT SLEEVE
Leo F. Hickman and Manuel Hickman, Corpus Christi, Tex.
Application July 15, 1949, Serial No. 104,878
7 Claims. (Cl. 74—595)



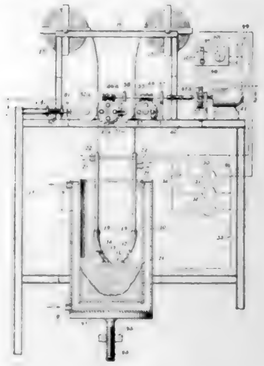
1. A crankshaft having an annular slot at an end of a journal of the crankshaft, and a longitudinally divided sleeve fitting closely on said journal and terminally engaged in said slot, said crankshaft having a plurality of slots extending radially from said annular slot and said sleeve having radially extending integral keys to fit into said radially extending slots.

2,532,913
PACKAGE FILLING MACHINE
William E. Higginbottom, Newark, N. J., assignor to Benjamin C. Betner Company, Devon, Pa., a corporation of Delaware
Application December 15, 1944, Serial No. 568,307
10 Claims. (Cl. 226—125)

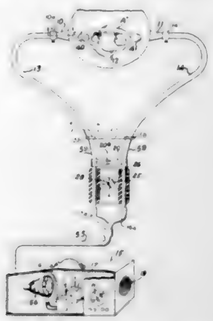
1. In a package filling machine, a spout, an auger therein, a shaft connected to said auger, a pair of clutch members concentric with the axis of said shaft, one of said members being keyed to said shaft, a cam for engaging said clutch members, said cam being mounted freely on a shaft parallel to the axis of said auger shaft, a gear freely rotatable about said cam bearing shaft and driving one of said clutch members, a one-revolution clutch for driving said cam from said cam bearing shaft, a motor for driving all of said parts, said motor being geared to said freely rotatable gear, and driving said cam-bearing shaft through a reeves drive.

2,532,914
APPARATUS FOR PRODUCING ALLOY INGOTS
Robert K. Hopkins, Staten Island, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application July 14, 1949, Serial No. 104,774
6 Claims. (Cl. 314—80)

1. In an apparatus for producing metal by the fusing action of flux submerged current discharges on consumable electrodes containing base ingredients of the metal to be produced and for depositing the produced metal in a mold below a blanket of flux, the combination comprising a motor, a pair of devices for feeding respective consumable electrodes towards the fusing zone in said blanket of flux as said electrodes are consumed, and a pair of drive means between said motor and said electrode feeding devices respectively, for operating said feeding devices simultaneously at predetermined relative rates, one of said drive means including a transmission changeable to alter its speed ratio selectively, whereby the relative rates of electrode feeds may be changed selectively.



2,532,915
METHOD AND APPARATUS FOR DETERMINING MALPOSITION OF VERTEBRAE
Herbert J. Horner, Dayton, Ohio
Application January 11, 1949, Serial No. 70,278
28 Claims. (Cl. 128—2)

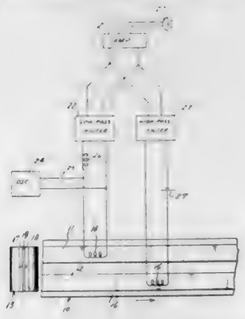


1. Apparatus for determining malposition of a vertebra of the vertebral column including, a pair of sound receivers, mechanism for indicating rotative positions of said sound receivers relative to a vertical and a horizontal axis and including means fixedly connecting said sound receivers with said mechanism, means for conducting an auditory signal from said sound receivers, and indicating means operatively connected with said conducting means to indicate the intensity of the auditory signals conducted by said conducting means.

2,532,916
RATTRAP
George J. Houston, Scranton, Pa.
Application January 23, 1947, Serial No. 723,711
4 Claims. (Cl. 43—81)

1. In a rat trap, a base, a bolt passing through the base and having its upper end bent at right angles and threaded, a nut threaded on the bolt upper end, a bait holder threadedly mounted on the bolt, said holder having bait receiving hooks, a spring controlled wire member, a trigger rod adapted to engage the nut to hold the wire member in a cocked position, and a clip to hold the wire member while the trigger rod is being adjusted.

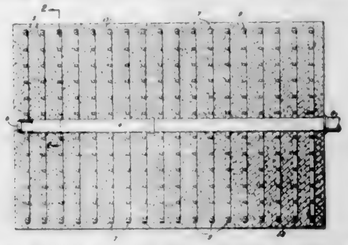
2,532,917
DUAL CHANNEL MAGNETIC RECORDER AND METHOD
Hugh A. Howell, Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill., a corporation of Indiana
Application October 18, 1946, Serial No. 704,036
6 Claims. (Cl. 179—100.2)



1. A magnetic recorder comprising a dual magnetizable track record member, a polarizing head for substantially magnetically saturating said tracks, a pair of recording heads, one associated with each track, a signal input ciriuit, filter means for separating an input signal into a lower band and an upper band, means for feeding said lower band to one of said heads and said upper band to the other of said heads, means for superimposing a high frequency signal on said lower band as it is fed to its associated head, and means for superimposing a D. C. bias on said upper band as it is fed to its associated head.

2,532,918
FLUID DISTRIBUTING OR COLLECTING SYSTEM FOR WATER SOFTENERS, FILTERS, AND THE LIKE
Churchill Hungerford, Jr., Wenonah, N. J., assignor to Hungerford & Terry, Inc., Clayton, N. J., a corporation of Delaware
Application January 2, 1947, Serial No. 719,805
2 Claims. (Cl. 137—78)

1. In a distributing system for water-softeners, filters and similar units, the combination of a cement-asbestos manifold and a plurality of cement-asbestos laterals connected thereto, said manifold being provided with a plurality of outwardly flaring openings thru its walls into which the ends of the laterals are adapted to extend, each of said laterals having its said end chamfered to correspond to and fit the flare of its opening, a concrete emplacement in which the distributing system is embedded and by means of which the parts are held in position with respect to one another, and circulation establishing conduit means adapted to connect the distributing system with the interior of the unit.

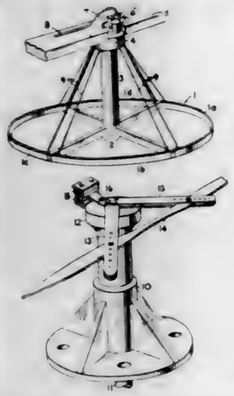


2. In a distributing system for water softeners, filters and the like, the combination of a cement-asbestos manifold having an outwardly flaring opening through a wall, a smaller cement-asbestos lateral having a correspondingly chamfered end fitted into said opening, said opening in the manifold and said chamfer on the lateral being formed to shred and expose the ends of the asbestos fibers, and emplacement means adapted to hold the parts in their assembled position.

2,532,919
RADIO AERIAL SYSTEM, AND PARTICULARLY DIRECTIVE AERIAL SYSTEM
William Arthur Johnson, Farnborough, England
Application August 13, 1948, Serial No. 44,185
In Great Britain April 21, 1947
7 Claims. (Cl. 250—33.63)

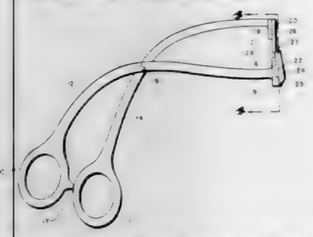
6. An aerial installation comprising upper and lower substantially flat horizontally disposed electrically conductive members, a plurality of spaced metallic vertical bars electrically connecting the periphery of the upper member to the lower member and a rotatable directive aerial system supported substantially centrally within said bars and between said members, the dimensions being such that the aerial system is spaced at least one-quarter wave-length at its lowest operating frequency from the members and at least one-half of said wavelength from said bars and each bar being spaced from adjacent bars by a distance which is small compared with a wavelength.

2,532,920
RADIO AERIAL SYSTEM, AND PARTICULARLY DIRECTIVE AERIAL SYSTEM
William Arthur Johnson, Farnborough, England
Application August 13, 1948, Serial No. 44,186
In Great Britain April 21, 1947
6 Claims. (Cl. 250—33.65)



1. The combination in adjacent parallel planes of a fed loop aerial and at least one parasitic dipole disposed such that its projection on the plane of the loop contains a chord of the loop thereby producing in said plane of the loop a directive pattern of radiation polarised in said plane.

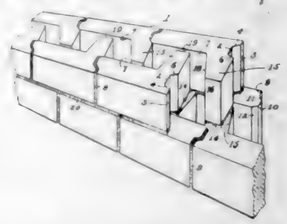
2,532,921
HAIR-TRIMMING SCISSORS
Minas H. Kashian, Boston, Mass.
Application November 19, 1948, Serial No. 61,101
2 Claims. (Cl. 30—233)



2. A hair-cutting scissors of the kind described, comprising a pair of pivoted intersecting arcuate-shaped arms formed with handle means at one end, and supporting flanges at the opposite end, said flanges extending toward each other at right angles to their respective arm ends, cooperative cutting means detachably mounted on each of said flanges, and comb means detachably carried by one of said flanges in association with a cutting means, said comb means positioned outside of said cutting means and providing protective and guiding means for the hair-cutting operation.

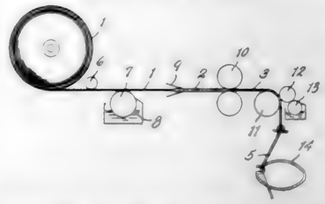
2,532,922
CAST STONE UNITS FOR BUILDING WALLS AND THE METHOD OF LAYING THEM IN COURSES
Walter E. Kelly, Portland, Oreg.
Application February 19, 1947, Serial No. 729,478
2 Claims. (Cl. 72—39)

1. An L-shaped building block comprising a rectangular solid body having upper, lower, inner, outer, and end faces, an extension of the same height as said body, projecting from the inner face thereof, to complete the L-shape, the length of the projection of said extension from said inner face being substantially equivalent to the thickness of said body and the width of said projection narrowing toward the end thereof, a tongue means on one end face of said body, said tongue



means being of asymmetrical truncated pyramidal form with two side faces inclined to the end face of the body and the end face parallel to the end face of the body, a mating groove means on the other end face of said body, said groove mans being of a form complementary to that of the tongue, one inclined face of the groove means terminating at the inner face of the body for forming an alinement surface.

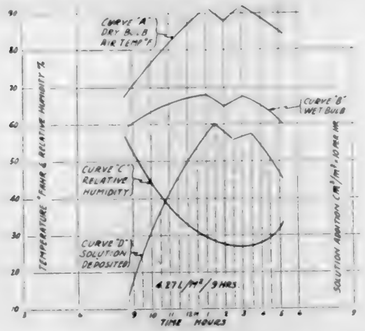
2,532,923
METHOD OF MAKING PAPER YARN
Harry D. Kitchen, Grand Rapids, Mich., assignor to Sackner Products, Inc., a corporation of Michigan
Application January 24, 1949, Serial No. 72,376
9 Claims. (Cl. 57—165)



1. The method of making paper yarn comprising the steps of crumpling and compressing a strip of paper into a strand of generally cylindrical section, further compressing and conforming the strand into a flattened section of substantially uniform width and thickness, forming a colored stripe on one side of the flattened strand and at one side of the longitudinal center thereof, and twisting the flattened strand into a yarn with the stripe on the outer side thereof, the stripe when the strand is twisted forming a spiral stripe on the surface of the yarn.

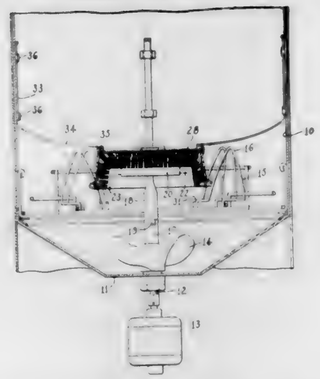
2,532,924
SOLAR EVAPORATION OF BRINES
Sherman D. Lesesne, Iquique, Chile, assignor to Compania Salitrera de Tarapaca y Antofagasta, a corporation of Chile
Application February 2, 1948, Serial No. 5,739
In Chile April 19, 1947
5 Claims. (Cl. 159—49)

1. A method of recovering soluble minerals from solutions thereof which comprises establishing an evaporating bed on a surface exposed to available sunshine, applying a film of the solution over the bed during daylight hours to evaporate the same by solar heat, applying a second film of solution to the same bed after the first layer has become substantially dehydrated, thereafter successively applying additional films



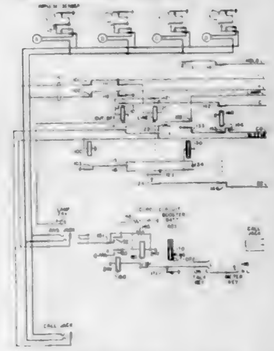
to the same bed after the preceding film has become substantially dehydrated, and limiting the amounts of all films in respect of quantity of solution applied to less than the free evaporation rate of the solution.

2,532,925
DISHWASHING MACHINE HAVING AN EXTENSIBLE ROTARY BRUSH FOR RECEPTACLES
Lawrence Anathan Loeb, New Haven, Conn.
Application February 1, 1945, Serial No. 575,651
1 Claim. (Cl. 15—56)



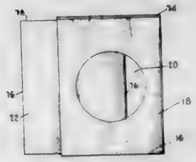
A dishwashing machine comprising a tank, a rotatable agitator therein, a stem secured to the agitator and extending upwardly therefrom, a brush head secured to the stem and extending transversely thereto, a pair of L-shaped bristle-carrying members, said head being provided with parallel open-ended guideways, one arm of each of said head members being slidably received in one of said guideways, the other arm of each of said members depending downwardly from the head and having outwardly facing bristles thereon, said members being moved outwardly by centrifugal force upon rotation of the agitator, and means normally urging said depending arms toward the stem, the first-named arm of one member overlapping the corresponding arm of the other member and said overlapping arms having upwardly directed bristles thereon.

2,532,926
PARTY LINE METERING, INCLUDING SELECTION OF THE METER PRIOR TO SIGNALING THE OPERATOR
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 14, 1947, Serial No. 728,697
18 Claims. (Cl. 179—8.5)



1. In a telephone system, a party line having a plurality of stations, an operator's position associated therewith, a meter at the exchange for each station on the line, an impulse sender at each of said stations, a switching device for locating said line when calling, means responsive to the initiation of a call by a station on said line for operating said switching device to connect with said line, means responsive to the subsequent operation of said impulse sender for selecting said calling station's individual meter, and means responsive to the selection of said meter for signalling said operator's position.

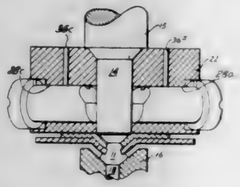
2,532,927
CIGARETTE PACKAGE HOLDER
Fred J. Mallet, New York, N. Y.
Application December 22, 1945, Serial No. 636,689
1 Claim. (Cl. 312—31)



A retainer for a substantially rectangular package of predetermined dimensions one end of which is to be opened to provide access to the contents of the package, the retainer being formed from substantially resilient material, the retainer comprising a base providing a stand for the package, and a pair of walls extending upwardly from the edges of the base, the width of the base being sufficient to accommodate the width of the package so that the walls will engage snugly against a package positioned upon the base and between the walls, one of the walls having an apron at its end extending across the space between the walls and toward the end edge of the other wall, the apron having integrally formed downwardly directed projections, moisture-retentive material adhered to the inner face of the apron and retained by the projections to form a flat wall for the apron, the distance be-

tween the base and the flat wall being sufficient to hold the end faces of a package snugly and for the apron and the moisture-retentive material to provide a cover for the open end of the package when the package is completely housed in the retainer, the base, the end portion, the moisture-retentive material, and the walls being associated so that the package may be moved sidewise under pressure applied positively to the free side faces of the package to present the opened package end for access to its contents.

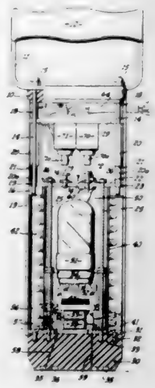
2,532,928
RIVET SETTING ARM
Frank A. Marty, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application August 2, 1943, Serial No. 497,109
3 Claims. (Cl. 78—52)



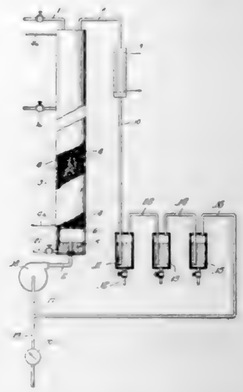
1. A rivet setting device comprising: a unitary rivet setting shoe having a first uniplanar work face and a second, opposed face; a rivet receiving bore formed in said shoe and passing therethrough at right angles to said work face; means mounted on said shoe for disengageably supporting a rivet in said bore; and a rivet set having a shank portion of substantially the same diameter as said bore and reciprocable therein to force a rivet axially therethrough; said rivet set carrying an unyielding abutment for directly and positively engaging said second face to limit the inward movement of said set relative to said shoe and to positively force said shoe into pressure engagement with a work sheet; said abutment being spaced from the free end of said shank portion a distance equal to or less than the distance from the plane of said work face to the point of contact of said abutment with said second face; the area of said work face being larger than the cross sectional area of said bore.

2,532,929
PRESSURE SENSITIVE MOISTURE TEST INSTRUMENT
Marvin L. McBrayer, Alhambra, Calif., assignor to Moisture Register Company, Alhambra, Calif., a corporation of California
Application February 9, 1949, Serial No. 75,381
9 Claims. (Cl. 175—183)

1. In an electric moisture register instrument: a cylindrical casing open at one end, an electrode supporting block receivable within said open end of said casing, a platform mounted on said block and spaced longitudinally of said casing from said block, a sleeve concentric with said casing mounted between said block and said platform, an annular shoulder in said casing adjacent the inside surface thereof facing toward said open end of said casing, a coil compression spring in said casing surrounding said sleeve and acting between said block and said annular shoulder to resist retractive movement of said block into said casing, means limiting the projection of said block from said casing, and switch means actuated by a predetermined movement of said platform along said casing accompanying retraction of said block into said casing.

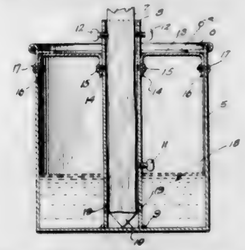


2,532,930
METHOD FOR THE LIMITED OXIDATION OF SATURATED ALIPHATIC HYDROCARBONS WITH FORMATION OF ALDEHYDIC COMPOUNDS
Frediee M. McNall, Olean, N. Y., assignor to Clark Bros. Co., Inc., a corporation of New York
Application August 9, 1944, Serial No. 548,694
25 Claims. (Cl. 260—604)



1. The method of producing oxygenated derivatives of aliphatic hydrocarbons in which the oxygen is bonded to a carbon atom of the hydrocarbon by effecting a limited oxidation of such saturated aliphatic hydrocarbon gases in which such gases are directly contacted with an oxygenated sulfur acid of the class consisting of sulfuric acid and sulfur trioxide as the oxygen supplying agent at a temperature in excess of 200° C. and not over 600° C. in the absence of other oxygen bearing materials in substantial quantities.

2,532,931
COMBINED CHRISTMAS TREE HOLDER AND TREE WATERING PAN
Harold G. Miller, Dover, Ohio
Application December 19, 1946, Serial No. 717,227
2 Claims. (Cl. 248—44)

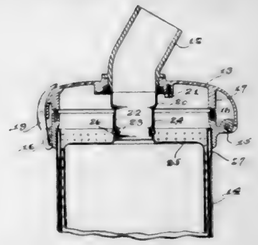


1. A combination tree holder and water containing structure of the class described comprising a can substantially open at its top, a central, vertically disposed tubular member rigidly mounted in said can and providing a tree trunk receiving socket, said tubular member having its upper end extending to a plane above the open top of the can, that portion of the tubular member within the can and adjacent the bottom of the can being provided with water ports, a plurality of set screws mounted on and carried by said tubular member, certain of said set screws being within the confines of the can and the others on the upper end of the tubular member and at a point above the open top of the can, a plurality of radial stay-arms, the inner ends of said arms being downbent and detachably fastened at circumferentially spaced points to the upper intermediate portion of said tubular member, the outer end of said arms being likewise downbent and fastened removably to the upper wall portion of said can, said arms all being on a plane below the upper open top of the can whereby they are positioned within the confines of the can.

2,532,932
BABY BIB
Wilbur G. Neiswander, Lima, Ohio, now by change of name Wilbur G. Neuenschwander
Application June 28, 1948, Serial No. 35,560
8 Claims. (Cl. 2—49)

3. A protective garment for babies' use comprising, a flexible sheet like member, said member consisting of a relatively straight portion forming a bib and including means at each of opposite sides at the lower end of said bib portion forming with the said lower end an open top pocket extending transversely across the lower end of the bib portion and an enlarged portion forming a tray cover extending outwardly from the transversely disposed edge of said open top pocket, the edge of said tray cover portion being gathered and provided with an elastic tape causing the edges to inturn forming a pocket to receive a tray.

2,532,933
DUST COLLECTING BAG FOR SUCTION CLEANERS
Joseph H. Nuffer, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application June 18, 1947, Serial No. 755,523
1 Claim. (Cl. 183—37)

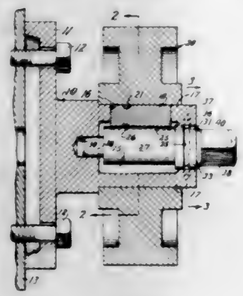


The combination of a suction cleaner having a casing provided with an open mouth, a cap closing said mouth, wall means on said cap to register with said casing mouth, means to effect an airtight seal between said wall means and casing mouth, means hingedly connecting said cap to said casing, conduit means on said cap through which dust laden air is adapted to pass into the casing, nozzle means on the inside of said cap and communicating with said conduit means, a reduced inner end portion on said nozzle having an annular groove adjacent the free end thereof, an air pervious bag of sheet material within said casing, said bag having a closed end and side walls, a reduced neck integral with the other end of the bag fitting said nozzle, and an annular spring for clamping said bag neck to said nozzle means and fitting said annular groove, the bag being released by slipping said spring out of said groove and along said reduced end portion to clear the bag neck.

2,532,934
ARBOR
Carl E. Overton, Chicago, Ill.
Application January 29, 1948, Serial No. 5,163
21 Claims. (Cl. 279—2)

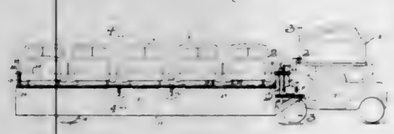
9. An arbor for supporting a workpiece for rotation about a given axis of rotation comprising a body having a cylindrical work-receiving surface, tightening means located entirely on one side of the axis of the body for movement in and out through aperture means extending through a portion of the work-receiving surface, and an eccentrically mounted cylindrical cam in the body operatively engaging the tightening means for moving the same into engagement with the workpiece, said work-receiving surface being deliberately made eccentric by having its center displaced from said axis of rotation in the direction opposite from the direction of locking movement of the tightening means by an amount equal to substantially half the maximum difference in the dimensions of the work-receiving surface and

the mating portion of the workpiece, whereby average differences between said dimensions



within the tolerances permitted in the workpiece will cause the workpiece to rotate on true center.

2,532,935
BODY TRAILER AND BODY HAULING APPARATUS
Matthew C. Patterson, Grosse Pointe Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 24, 1947, Serial No. 781,881
8 Claims. (Cl. 214—65)

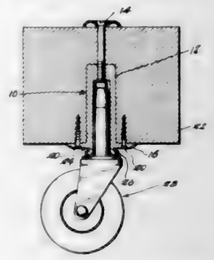


1. Apparatus for positioning a vehicle body for, and supporting the same during transportation comprising a frame structure, a shaft swingably mounted on said frame structure having an axis of revolution substantially parallel to and spaced from its longitudinal central axis, crank members on the ends of said shaft having end portions pivotally mounted on said frame structure for swingably supporting said shaft with respect to said axis of revolution, a vehicle body supporting rack carried by said shaft, fixed against rotation relative thereto and adapted to receive the lower portion of a vehicle body, means for securing said vehicle body to said rack, and driving mechanism operatively connected with one of said crank members for swinging said shaft and said rack about said axis of revolution from a loading position to a transporting position.

2,532,936
ALTITUDE CORRECTED LANDING SYSTEM FOR AIRCRAFT
Joel D. Peterson, Ridgewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 18, 1947, Serial No. 742,439
12 Claims. (Cl. 244—77)

2. In an automatic landing system for aircraft in which a radiant energy beam is received aboard the craft and the signal voltages derived therefrom are utilized to control landing of the craft, the combination of the source of said signal voltages with means for regulating the aircraft engine torque in response to said signal voltages, and means for varying the signal voltages in accordance with the altitude of the aircraft.

2,532,937
REPLACEABLE HOLDER FOR CASTER SOCKETS
August Posch, Pittsburgh, Pa.
Application November 20, 1946, Serial No. 711,141
1 Claim. (Cl. 16—18)

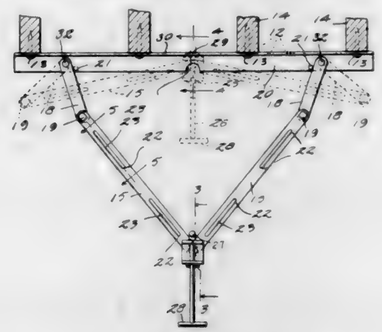


For use in connection with a leg of an article of furniture which has a caster barrel with a ring at one end thereof normally disposed in firm contact with the bottom of the article of furniture leg, a conversion assembly for the caster barrel comprising a sleeve having a bore, an annular flange fixed to one end of said sleeve and adapted to engage the lower end of the leg, said bore having an internal smooth surface wherein the barrel is adapted to be disposed, a second annular flange disposed at the same end of said sleeve as said first-mentioned annular flange, and said second annular flange having an inwardly angled outside surface to receive the barrel ring thereon whereby the ring may be bent in securing relationship with the second annular flange.

2,532,938
LAUNDRY DRYING RACK
Edward H. Prager, Baltimore, Md.
Application March 10, 1949, Serial No. 80,690
4 Claims. (Cl. 211—104)

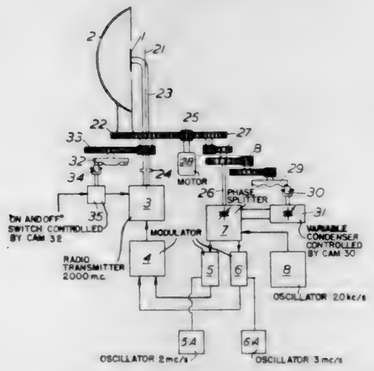
2. A clothesline rack comprising pairs of end bars pivotally connected together at their lower ends and formed with spaced openings, upper base bars adapted to be secured to a supporting means, links pivotally connecting said base bars with the upper ends of said end bars, upper spacer bars extending between the upper ends of said end bars, a lower spacer bar extending between the lower ends of said end bars, said spacer bars being connected to said end bars, a clothesline extending through said openings and extending between said pairs of end bars, and means for collapsing the rack to an upper position or extending the rack to a lower operative position

with said pairs of end bars in downwardly convergent relation, said latter named means in-



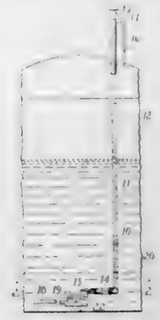
cluding a releasable locking means for holding the device in upper collapsed position.

2,532,939
RADIO BEACON
John W. S. Pringle, Cambridge, England
Application July 25, 1947, Serial No. 763,671
In Great Britain April 23, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires April 23, 1965
13 Claims. (Cl. 343—106)



1. In a radio beacon, a directional antenna mounted for rotation about a vertical axis, a radio transmitter operating at a predetermined frequency and connected to and feeding said antenna, a modulator for modulating said transmitter at two different radio frequencies, first and second oscillators respectively operating at the last-named frequencies for supplying modulating currents at said frequencies to said modulator, another oscillator operating at a frequency lower than all of the hereinbefore mentioned frequencies, a phase splitter having an input circuit connected to the output of the last-named oscillator, said phase-splitter including two output circuits respectively connected to modulate the outputs of said first and second oscillators, said phase-splitter also including a movable element for varying the phase of the current fed through one of said output circuits relative to the phase of the current fed through the other of said output circuits upon predetermined movement of the movable element, a driving element mechanically connected to said antenna for rotating the same, and another driving element coupled to the first one for imparting said predetermined movement to said movable element to such an extent as to effect a shift of one electrical degree in the phase relationship of said currents respectively modulating the outputs of said first and second oscillators when the antenna rotates one angular degree.

2,532,940
LIQUID SEAL LEVEL GAUGE
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 16, 1946, Serial No. 710,280
4 Claims. (Cl. 73—299)

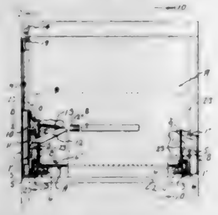


4. A gauge for measuring levels of liquid contents in a tank comprising a measuring tube within said tank and projecting through the top thereof, a chamber in said tank communicating with the lower end of the measuring tube, said measuring tube and chamber adapted to contain liquid of a specific gravity different from the specific gravity of the tank contents, means for transferring pressure of liquid in the tank to the liquid in the measuring tube through said chamber, means to equalize the pressure in the gas space of the tank and the upper end of the measuring tube, liquid level locking means in the measuring tube and a calibrated rod adapted for insertion in said measuring tube to measure the liquid level therein.

2,532,941
PROCESS TO PROVIDE PLASTIC ARTICLES WITH PRINTING
Leopold Rado, London, England
No Drawing. Application August 5, 1947, Serial No. 766,333. In Great Britain October 1, 1943
4 Claims. (Cl. 154—99)

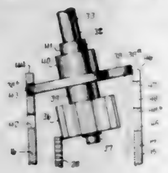
1. The herein described process consisting in providing plastic surfaces with printings, laying a fibrous carrier containing a design thereon and partially embedded in the surface fibers thereof to be transferred against the plastic surface while the plastic is in a soft, hot and tacky condition, pressing the carrier and the plastic together embedding the fibers of the carrier into the plastic and effecting a transfer of the design thereto, subsequently cooling the plastic and removing the unembedded surface fibers of the print carrier.

2,532,942
FILING CABINET
John F. Reimer, Manitowoc, Wis., assignor to Invincible Metal Furniture Company, Manitowoc, Wis.
Application February 4, 1946, Serial No. 645,283
2 Claims. (Cl. 312—218)



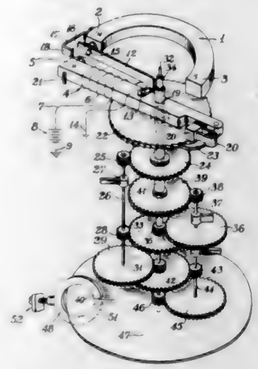
1. In a filing cabinet embodying side and front walls provided with drawer openings for the reception of slideable drawers and a universal locking means for all drawers; comprising a U shaped vertically positioned housing secured to a front corner of the cabinet adjacent to the drawer openings having slots therein opposite one side wall of each drawer, a locking bar slideably mounted in the housing, wings extending from the locking bar through the housing slots, wedge shaped fins extending from the housing adjacent the wings, individual latch bolts mounted upon the front wall of each drawer engageable with the wings and fins, a lock and release means for raising and lowering the locking bar, the same including a spring controlled stem having a key-actuated barrel connected thereto and extending through the front face of the cabinet, a bracket for supporting the barrel and stem secured to a side wall of said cabinet, a spring controlled lever pivoted to the bracket having a slot therein, a stud extending from the stem engaging the lever slot, and a pivot connection between said lever and locking bar end.

2,532,943
HANDSET UNIT FOR TIMEPIECES
Walter F. Riemer, Bristol, Conn., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application May 17, 1949, Serial No. 93,677
7 Claims. (Cl. 58—80)



1. In a timepiece, the combination including: a movement-frame comprising substantially spaced-parallel front and rear movement-plates, each plate having a pair of holding-apertures formed therein, the pair of holding-apertures of one movement-plate being interconnected by a clearance-slot which intersects the periphery of said one movement-plate, and similar holding-apertures of said front and rear movement-plates respectively constituting two sets of holding-apertures; time-indicating means; a setting-gear assembled between said front and rear movement-plates; means operatively connecting the said setting-gear to the said time-indicating means; and a handset-unit, said handset-unit having two sets of supporting-means for selectively assembling said handset-unit in either of two positions in said movement-frame, one of said sets of supporting-means being arranged to engage in one of the sets of holding-apertures of said movement-plates to support said handset-unit substantially radially of said movement-frame and in cooperative engagement with said setting-gear, and the second set of supporting-means being arranged to be engaged in the second set of holding-apertures of said movement-plates by the clearance afforded by the said interconnecting clearance-slot to support said handset-unit substantially perpendicularly to said movement-frame and in cooperative engagement with said setting-gear.

2,532,944
ELECTRIC CLOCK
Theodore K. Riggen, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application November 26, 1945, Serial No. 630,901
5 Claims. (Cl. 58—23)

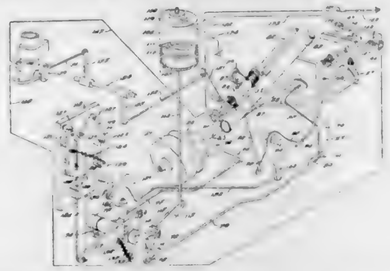


1. In an electric clock, a permanent magnet, an electromagnet including a core of magnetic material mounted for movement toward and away from the permanent magnet, means for intermittently causing repulsion of the electromagnet from the permanent magnet, and clock mechanism driven by movement of the electromagnet toward the permanent magnet caused by the attraction of said core by the permanent magnet when the electromagnet is deenergized, said means for causing repulsion of the electromagnet including a source of electrical energy, a circuit connecting the electromagnet to said source, an armature movably mounted on the electromagnet between the electromagnet and the permanent magnet, and a pair of contacts in said circuit mounted on the electromagnet and the armature respectively.

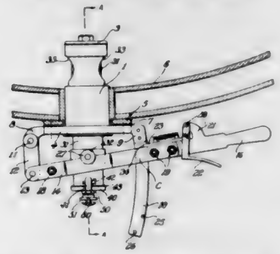
2,532,945
CONTROL FOR MOTOR VEHICLE TRANSMISSIONS
Maurice C. Robinson, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 21, 1946, Serial No. 698,504
3 Claims. (Cl. 74—335)

1. In a shift control mechanism for a vehicle transmission, an inclined rotary and axially movable shift control rod, said rod being normally

operable in a predetermined axial path between first and second limits and operable in a predetermined rotary path at one of said limits to a first station and operable in a predetermined rotary path at the other of said limits to a second station, a transmission control element operable by axial movement of said rod beyond said second limit, a first blocking device carried by the lower portion of said rod and a coacting blocking device located adjacent said rod, one of said blocking devices being provided with a slot shaped to accommodate passage of the other of said blocking devices therethrough when said rod is moved axially from the second station to thereby accommodate movement of said rod beyond said second limit from said second station to operate said transmission control element and means carried by the lower portion of said rod and coacting means adjacent said rod for blocking axial movement of said rod from said first limit toward said second limit until said rod is rotated for movement in said axial path.

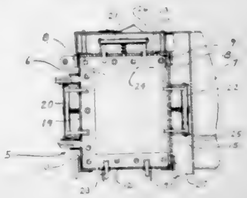


2,532,946
SAMPLING APPARATUS, MORE PARTICULARLY FOR USE IN VESSELS UNDER PRESSURE
Francis Heron Rogers, Kenley, England
Application June 2, 1949, Serial No. 96,635
In Great Britain June 8, 1948
8 Claims. (Cl. 73—423)



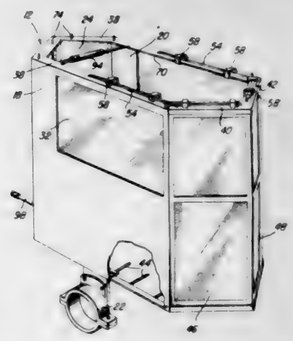
1. A device for extracting samples of material from a closed vacuum or pressure vessel, comprising in combination: a cylindrical casing having at least one opening formed in one end portion thereof to provide a communicating passage from the exterior of said casing to the interior thereof; a sleeve mounted within said casing and axially slidable therein from the other end thereof to close said communicating passage on axial movement in one direction and open said passage on axial movement in the other direction; a further sleeve mounted within the first said sleeve and formed with a closure wall at the end thereof remote from said passage; means on the first said sleeve and said further sleeve for releasably securing said sleeves against relative axial movement; and valve means in the end wall of said further sleeve operable at will to open or close the interior of said further sleeve to atmosphere.

2,532,947
BALER AND VENTING MEANS
Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation
Original application April 19, 1941, Serial No. 389,396, now Patent No. 2,362,861, dated November 14, 1944. Divided and this application November 11, 1944, Serial No. 563,041
3 Claims. (Cl. 100—19)



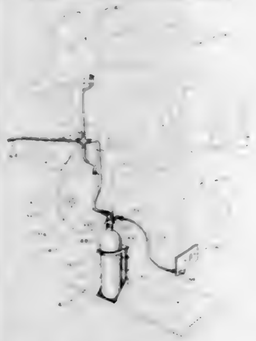
1. A pressure relieving device for a baler having a baling chamber and a plunger for compressing material to be baled in the chamber, and whereby air may be trapped in the baling chamber in appreciable quantities, said device comprising a plurality of side plates for the baling chamber provided with a plurality of perforations for the escape of air from the chamber, and a permanently open flue enclosing certain of said plates and through which said baling chamber communicates by virtue of the perforations therein with a point removed from the baling chamber.

2,532,948
DETACHABLE TRACTOR CAB
Howard Sanden, Luverne, N. Dak.
Application November 15, 1946, Serial No. 710,190
8 Claims. (Cl. 296—28)



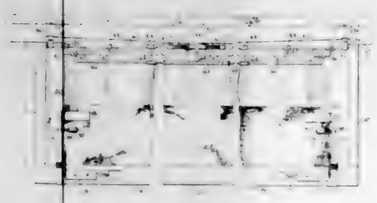
1. A detachable tractor cab comprising a pair of complementary sections joined together on a longitudinal vertical plane to define a compartment, fastening means for detachably securing the sections together, a cover removably mounted on the upper edges of the sections to enclose the compartment, inwardly extending supporting pins carried by the sections and engageable on the frame of a tractor, and split clamps carried by the sections and engageable on the rear axle housing of said tractor.

2,532,949
METHOD AND MEANS FOR EXTINGUISHING FILM FIRE
Byron B. Savage, Oklahoma City, Okla.
Application December 4, 1947, Serial No. 789,637
8 Claims. (Cl. 169—2)



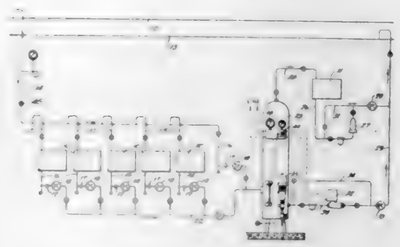
1. A method of extinguishing burning motion picture film disposed on a loosely mounted reel of a film magazine, which consists of discharging an extinguishing medium under pressure into contact with the burning film, directing the discharging medium in an angled path relative to the film reel and at a high velocity to cause rotation of the film reel in a direction opposite to the normal feeding direction for removing burnt ash from the film, simultaneous with a smothering of the flame by the extinguishing medium.

2,532,950
SHUTTLE GUARD
Harold E. Schaller, Boston, Mass., assignor to Scotland Mills, Inc.
Application October 26, 1949, Serial No. 123,677
3 Claims. (Cl. 139—193)



1. Shuttle guard for a loom having a lay provided with a reed cap comprising a plurality of bearing brackets attached to the side of the reed cam next to the fell of the cloth being woven, an elongated rod oscillatably mounted in the bearing brackets, second rod disposed in spaced parallel relation to the first rod and having its ends bent at right angles to the longitudinal axis of the second rod and secured to the first rod, a third rod disposed in spaced parallel relation to the second rod and having its ends bent at right angles to the longitudinal axis of the second rod and secured to the second rod, and a plurality of cross rods secured between the first, second and third rods, a medial portion of the first rod having a collar fixed thereon, a torsion spring surrounding the first rod and having one of its ends anchored in the collar and having its other end anchored to the reed cap, said spring being biased to move the third rod upwardly away from the warp threads of the loom, said first rod having a second collar fixed thereon and having an offset portion extending from one end thereof, a loose collar on the first rod and spring means urging the loose collar towards the end of the second fixed collar, the loose collar also having an offset portion on its end adjacent the second fixed collar, and against which the offset portion of the second fixed collar is normally adapted to rest as a result of the torsion spring, and means for moving the loose collar away from the second fixed collar to allow the torsion spring to raise the shuttle guard on its pivoted first rod to substantially vertical position, and releasing of the loose collar latching the shuttle guard in raised position.

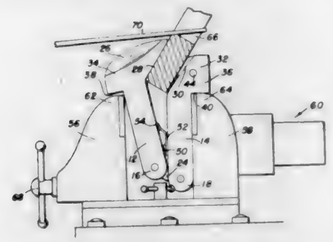
2,532,951
STEAM FLOW CONTROL SYSTEM
Fred H. Schaub, River Forest, Ill., assignor to Fred H. Schaub Engineering Co., Inc., Chicago, Ill., a corporation of Illinois
Application January 2, 1948, Serial No. 234
6 Claims. (Cl. 237—67)



3. A steam flow control system comprising a steam using unit, a conduit to connect the unit to a source of steam, an outlet conduit connected to the unit, an orifice in the outlet conduit to control the flow therethrough, an accumulator tank connected to the outlet conduit, a water outlet connection to the lower part of the accumulator tank, a control valve in the water outlet connection, means responsive to the water level in the tank normally to maintain the level substantially constant above the water outlet connection, means responsive to the pressure in the tank to open the valve when the pressure exceeds a preset value, a second steam using unit connected to the upper part of the tank to receive steam therefrom, a condensate discharge conduit connected to the second unit, and trap means in the condensate discharge conduit to pass condensate while substantially preventing the flow of steam therethrough.

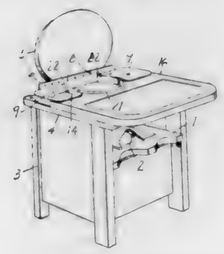
2,532,952
WORK HOLDER SUPPORTED AND CLAMPED BETWEEN VISE JAWS
Carl M. Schmitt, Elmhurst, Ill.
Application December 19, 1947, Serial No. 792,696
1 Claim. (Cl. 81—38)

A work holding device comprising a first and second pair of arms, said arms having upper and lower end portions, the lower end portions of said arms being bifurcated, a connecting link received by the bifurcated lower end portions of said arms, means pivoting the ends of said link to the bifurcated end portions of said arms, said arms having inner flat surfaces, a spring arm secured to the inner surface of said first arm and having a portion bearing against the inner surface of said second arm to retain said arms spaced relative to each other, jaws fixed to the upper end portions of said arms, one of said jaws comprising a channel member having spaced leg portions, a pivot pin fixed to the leg portions of the



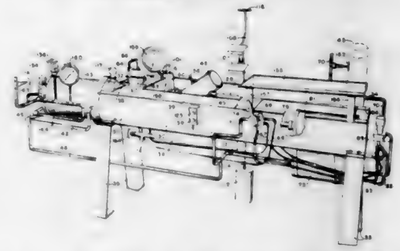
channel member and disposed parallel to the pivotal axes of said arms, said roller having a flat longitudinal bearing surface, and a transverse groove provided in the flat longitudinal bearing surface of said roller for receiving a rounded piece of work.

2,532,953
TRAY FOR INFANTS' TRAINING CHAIRS
Murray H. Scott, Benton Harbor, Mich.
Application October 4, 1948, Serial No. 52,713
4 Claims. (Cl. 155—127)



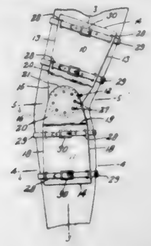
1. A tray attachment for an infant's chair comprising a horizontal back bar defining a series of apertures therealong for selectively receiving attaching means to attach the bar to the back of the chair, end members on said bar of horizontal forwardly opening U-shaped cross section, spacer blocks secured within the rear portions of said end members, forwardly extending portions on the lower flanges of said end members and defining a plurality of spaced apertures for selectively receiving attaching means to secure said extensions to the arms of a chair, longitudinally spaced pin receiving openings in one of said end members, a tray board selectively securable in a plurality of adjusted positions to said one end member by a pivot pin whereby the rear corners thereof will telescope within said end members, the rear edge of said tray board defining a U-shaped recess in the center thereof, the extended portion of the other of said end members defining a keeper slot, and a catch on the under side of said tray board cooperative with said slot, said tray having a clip secured to its under side and engageable with the edge of the lower flange of said one of said end members in the closed position of said tray.

2,532,954
HYDROSTATIC PRESSURE TESTING APPARATUS
Chester C. Sherer, James M. Koontz, and Raymond H. Hoefler, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 11, 1945, Serial No. 593,170
13 Claims. (Cl. 73—37)



1. In a device of the character described for testing the strength of the side wall structure of hollow cylindrical articles, open at both ends, said device including a reservoir filled with liquid in which the articles are to be submerged, the combination of a supporting framework; a closure movably mounted on said framework and normally in an article-receiving position outside the liquid, said closure being constructed to seal one end of an article against leakage and said closure movable from an article-receiving position outside the liquid into an operating position inside the liquid, to submerge said article in the liquid; a second closure movably mounted on said support in a position in alinement with the other end of said article after the article is submerged by movement of the first closure; operating means to move the second closure into engagement with the said other end of the article, after the article has been submerged, and to thereby seal said other end of said article against leakage; a plunger movable through one closure and into the submerged article to bear against the liquid sealed in the hollow interior of the cylindrical article to create pressure against a side wall structure thereof, to test the strength of said side wall structure; and operating means to move the plunger.

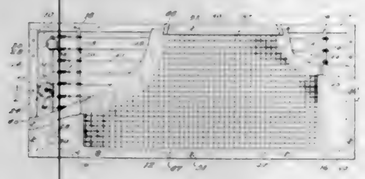
2,532,955
KNEE GUARD OR BRACE
Ross O. S. Shook, Hutchinson, Kans.
Application February 13, 1946, Serial No. 647,258
5 Claims. (Cl. 2—22)



1. A device for laterally bracing a limb joint comprising plates having adjacent end portions in pivoted overlapping engagement, said plates having laterally enlarged portions curved to fit the inside of limb members adjacent the limb

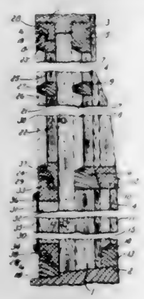
joint, said enlarged portions being in longitudinal alignment with each other, one of said adjacent end portions being laterally offset from the longitudinal axis of its plate, and means disposed wholly between said overlapping adjacent end portions for pivotally securing said plates to each other for movement about an axis transverse the plane of said overlapping end portions.

2,532,956
AIR PROPORTIONAL COUNTER
John A. Simpson, Jr., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 31, 1946, Serial No. 719,525
13 Claims. (Cl. 250—27.5)



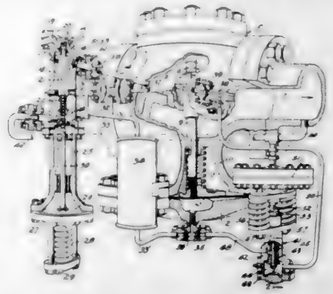
2. In an electron discharge device, in combination, an electrode comprising a wire having a central portion of uniform diameter and two end portions of larger diameter than said central portion, two spaced support means having apertures therein larger than said central portion but smaller than said end portion, said apertures being open at the periphery thereof to permit peripheral introduction of the wire into the apertures, said wire extending through said apertures, and means for springily mounting at least one of said support means so as to exert tension on said wire.

2,532,957
AUXILIARY WINDOW SASH
David Sommers, Huntington Station, N. Y.
Application December 4, 1945, Serial No. 632,628
7 Claims. (Cl. 160—182)



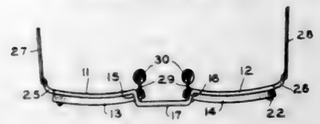
7. An auxiliary assembly for use in a wall opening, comprising a mounting frame having recessed top and bottom members and adapted to fit in the opening, and a plurality of interchangeable auxiliary sashes, each sash including recessed top and bottom members, the recessed portions of each sash being cut away to form a ship lap joint with the recessed portions of the other sash, and with the recessed portions of the mounting frame.

2,532,958
REGULATING VALVE
Paulsen Spence, Hot Springs, Ark., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York
Application June 26, 1943, Serial No. 492,385
4 Claims. (Cl. 50—10)



1. A regulating valve having a high pressure side and a low pressure side, a main valve member for controlling the passage of fluid through said regulating valve, a main valve diaphragm cooperating with said main valve for actuating the latter, a pressure connection from the low pressure side of said main valve to the low pressure side of said diaphragm for always subjecting the low pressure side of said diaphragm to the pressure at the low pressure side of said main valve, a pilot valve for admitting pressure fluid to the high pressure side of said diaphragm for actuating said main valve member in one direction, means for controlling said pilot valve for normally controlling the pressure at the high pressure side of said diaphragm, a safety pilot valve communicating at one side with said high pressure side of said main valve diaphragm and the other side with the low pressure side of said main valve whereby when said safety pilot valve is open the pressure on said high pressure side of said diaphragm will be substantially the same as the pressure at the low pressure side of said main valve, and means acting independently of said pilot valve and its actuating means and subject to the pressure at the low pressure side of said main valve for operating said safety pilot upon the attainment of a predetermined pressure at the low pressure side of said main valve, whereby upon attainment of a desired higher-than-normal regulated pressure at the low-pressure side of said main valve, said safety pilot may function to close said main valve member and thus to govern the regulation of said main valve.

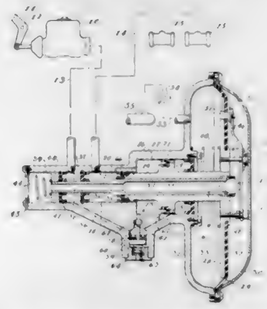
2,532,959
LENS MOUNTING FOR SEMIRIMLESS SPECTACLES
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application April 12, 1947, Serial No. 741,038
6 Claims. (Cl. 88—41)



1. In a semi-rimless spectacle, the combination of a lens, a resilient rim member positioned

rearwardly of the plane of the lens and extending along the upper and temporal edges thereof, a part extending forwardly from the rim member across the upper edge of the lens and adjacent the nasal side thereof, means on the member in yielding engagement with the temporal edge of the lens for urging the lens against said part to limit movement of the lens, a strap secured to the temporal portion of the rim member and extending along a surface of the lens, and means for securing the lens to the strap, the nasal side of the lens being unattached to the rim member, said part serving as a stop to limit the upward movement of the lens produced by the first named means.

2,532,960
BRAKE BOOSTER
William Stelzer, East Orange, N. J.
Application December 3, 1943, Serial No. 512,688
9 Claims. (Cl. 60—54.5)

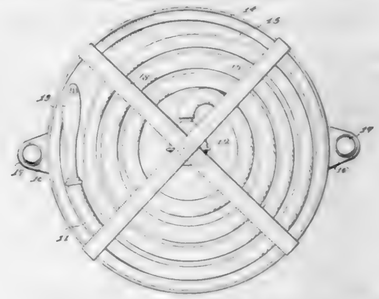


6. In a hydraulic braking system having wheel cylinders to apply the brakes, in combination, manually operable means for displacing fluid into the wheel cylinders to apply the brakes, a booster comprising a low pressure cylinder and a high pressure cylinder, pistons in said cylinders arranged to move in unison, means to transmit the pressure of the fluid displaced by said manually operable means to said low pressure cylinder to actuate said pistons, means to conduct the fluid displaced by said pistons to said wheel cylinders, a motor mechanism to assist the fluid from said manually operable means to actuate said pistons, control means operable by fluid displaced by said manually operable means to energize said motor mechanism, and valve means arranged to bypass fluid displaced from said low pressure cylinder around the piston therein when the pressure in said low pressure cylinder rises to a predetermined point.

2,532,961
METHOD OF TYING FLIES
Howard W. Steen, Doniphan, Mo.
Application August 27, 1946, Serial No. 693,316
1 Claim. (Cl. 43—42.53)

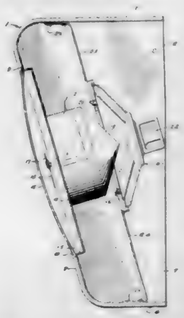
The method of tying flies consisting of providing hooks with line eyes, providing a leader, forming knots adjacent the ends of the leader, extending the leader through the eye of one of the hooks placing the leader against the hooks parallel thereto, securing the leader to the hooks by wrapping thread around the hooks and leader at opposite sides of the knots binding the hooks and leader together, coating the hooks and leader with cement, and finally securing hackle feathers to the hooks, concealing the hooks.

2,532,962
CARRIER FOR A COMBINATION HOT-WATER BOTTLE, ICE BAG, AND FOUNTAIN SYRINGE
Emma M. Stewart, High Point, N. C.
Application December 31, 1948, Serial No. 68,634
1 Claim. (Cl. 150—2.1)



A carrier for a flexible bag having an attachable syringe tube and having diametrically opposed outwardly extending fins each provided with a snap fastener element, comrpising a disc having diametrically opposed outwardly extending fins, each provided with a snap fastener element for engagement with one of the snap fastener elements carried by the bag, an annulus affixed to the outer face of said disc, and a pair of diametrically extending straps of stiff material affixed to the outer edge of said annulus, said straps being each perpendicular to the other and each of said straps being inclined outwardly to their midpoint, said straps being adapted to maintain said tube therein when the tube is not in use.

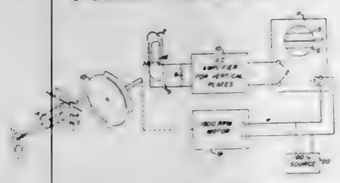
2,532,963
COMBINED CLOCK AND LOUD-SPEAKER UNIT
Grathy O. Tanner, Houston, Tex.
Application September 28, 1948, Serial No. 51,609
2 Claims. (Cl. 181—31)



1. A combined clock and loud speaker unit including a housing of substantially rectangular shape in cross section having a downwardly and rearwardly sloping front formed with a centrally disposed circular opening therethrough, an annular seat formed about the periphery of

said opening in the rear portion thereof, a clock crystal supported upon said seat, a clock mounted in said opening having a face formed with a forwardly extending peripheral flange adapted to engage said crystal and be received in said annular seat, said clock having a rearwardly extending conical back, grills formed in said housing front about said central opening, and a loud speaker supported in said housing in axial alignment with said clock in spaced relation and to the rear thereof.

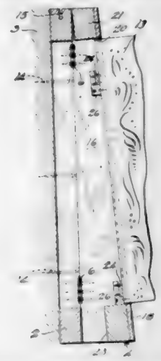
2,532,964
AUTOMATIC ELECTRONIC TOLERANCE MONITOR
Norman H. Taylor, Manchester, Mass., and Raymond M. Wilmotte, Washington, D. C.; said Taylor assignor to Raymond M. Wilmotte, Washington, D. C.
Application August 8, 1947, Serial No. 767,428
9 Claims. (Cl. 88—14)



1. In a system for monitoring the tolerance of a dimension of the product of a high speed production line, a member having a test slot partially obstructed in width by said dimension of said product and a comparison slot, said test slot having a larger width than the said dimension, a photo-cell having an output circuit, means for illuminating said photo-cell alternately through said test slot and through said comparison slot to generate unidirectional voltage pulses in said output circuit, a cathode ray tube indicator tube comprising means for generating a cathode ray beam, first means for deflecting said cathode ray beam in a first coordinate direction, second means for deflecting said cathode ray beam in a second coordinate direction, means comprising an amplifier for amplifying alternating current signals only, means connecting said amplifier to said output circuit for amplifying only the difference between the peaks of said signals and the mean of said peaks as an alternating current signal, means for impressing said alternating current signal on said first means for deflecting said cathode ray beam, means for generating sweep voltages, means for applying said sweep voltages to said second means for deflecting said cathode ray beam, and means for synchronizing said sweep voltages with illumination of said photo-cell through each of said slots in such manner that light is transferred from one of said slots to another of said slots substantially at the ends of said sweep voltages.

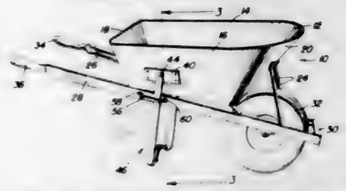
2,532,965
DISPLAY RACK FOR PANELS
Floris E. Thomas, Chicago, Ill.
Application July 29, 1947, Serial No. 764,427
3 Claims. (Cl. 40—102)

1. A display rack for panels comprising a substantially vertical rear section adapted for connection to an associated support, a front section comprising side walls with substantially vertical rear edges and front edges sloping downwardly and forwardly, a front wall secured to said front edges and sloping forwardly and downwardly, substantially vertical slots in said front wall adapted to receive said panels, a pair of brackets supported by said front section at opposite sides of said front wall at the rear surface thereof, each of said brackets having a slot open at the top



thereof and sloping downwardly and forwardly, a clamp bar slidably receivable within said slots and having a surface parallel to said wall surface clamping the ends of said panels thereagainst and a hinged connection between said sections to accommodate access to said bar.

2,532,966
WHEELBARROW BOOSTER
Tom Thomas, Houston, Tex.
Application September 16, 1949, Serial No. 116,139
1 Claim. (Cl. 280—52)

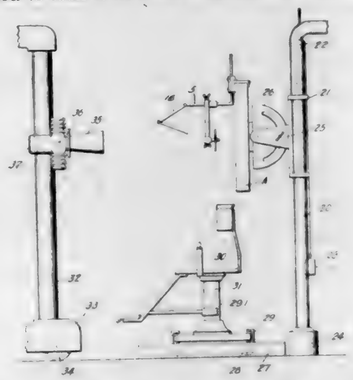


In combination with a wheelbarrow including an open top receptacle mounted upon spaced longitudinal strength members, a wheelbarrow booster comprising a substantially U-shaped member having the ends of its substantially parallel legs pivotally secured to oppositely disposed sides of said receptacle and stop means secured to said strength members for limiting the movement of said U-shaped member, said stop means comprising substantially U-shaped brackets having the ends of the substantially parallel extending legs bent outwardly, said ends of said legs being fastened to said strength members, said legs of said U-shaped member being encompassed by said brackets on three sides and by said strength members on the fourth side.

2,532,967
SPINOGRAPH METHOD AND APPARATUS
Joseph Clay Thompson, Davenport, Iowa
Application January 24, 1949, Serial No. 72,510
7 Claims. (Cl. 250—52)

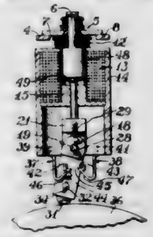
1. In apparatus for taking spinographs of the axial region of the spine, a vertically adjustable bucky to carry a photoplate, a revolvable seat secured in adjustable relation to the bucky and

movable both forward and back, and laterally thereof, a channeled bracket rigidly mounted upon the top of the bucky with a vertically adjustable supporting bar slidably mounted in the channel, an alinement bar having one end rigidly united to the lower end of said supporting bar and extending forwardly at a right angle to the supporting bar and to the photographic plate carried by the bucky, a slide mounted upon said alinement bar and slidable longitudinally thereof and carrying a semi-circular yoke adapted to span the head of a patient in front of the bucky, said slide being also revolvable upon said alinement bar, a thumb screw mounted in said yoke adapted to lock it in fixed longitudinal and rota-



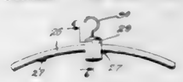
titional position upon the alinement bar, a link pivotally mounted in the outer end of the alinement bar and movable upon its pivot in a vertical plane projected through the longitudinal axis of said alinement bar, a pointer pivotally mounted upon the end of said link and movable upon its pivot in the same plane as the link, rearwardly extending arms united to the lower ends of the yoke respectively, coaxial pointers adjustably mounted in said arms, coaxial supporting bars threaded into suitable bores formed in the lower ends of the yoke carrying pads at their inner ends adapted to bear against the sides of the head of a patient spanned by said yoke to immobilize the head relative to said yoke.

2,532,968
ENGINE STARTER CONTROL SWITCH
Kenneth P. Tota, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application September 20, 1946, Serial No. 698,162
6 Claims. (Cl. 200—59)



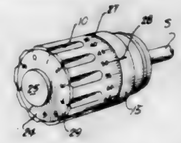
1. In an engine starter control switch, a switch element bodily movable to close the switch, a control member movable by said element into engagement with a moving part and arranged to be diverted by said engagement out of its normal path of movement, and an abutment for arresting the control member when so diverted to thereby prevent the switch element from closing the switch.

2,532,969
GARMENT HANGER
Loyd L. Valentine, Atlantic, Iowa
Application April 8, 1946, Serial No. 660,466
1 Claim. (Cl. 223—92)



A garment hanger of the character stated, comprising a body member having an opening formed transversely therethrough, means for suspending said body member, a single arcuate bar disposed through said opening for sliding movement transversely of the member, a pair of stops fixed to said arcuate bar in spaced relation and adapted to engage the adjacent sides of the member to limit the movement of the arcuate bar through the member opening, one of said stops being disposed adjacent to the center of the bar and the other stop being disposed adjacent to one end of the bar whereby when the said one stop is in contact with the member, the member will be substantially midway between the ends of the bar and a spring pressed friction element housed in the member and extensible into said opening for frictional contact with the arcuate bar to maintain the latter in a predetermined position of adjustment.

2,532,970
INDICATING DEVICE
William D. Van Dyke, Tarzana, Calif., assignor to Van Dyke Instruments, Inc., Tarzana, Calif.
Application December 8, 1947, Serial No. 790,402
11 Claims. (Cl. 116—133)



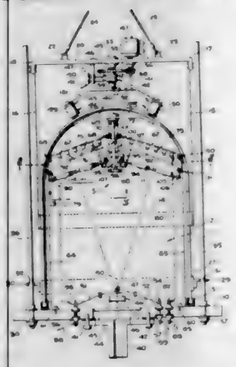
1. A shaft rotation counting-device, comprising: stationary gear means surrounding said shaft inwardly of the outer end thereof and having a reaction inducing periphery of a predetermined power ratio; an operating means fixedly surrounding said shaft outwardly of said gear means and peripherally graduated in fractional rotations of said shaft; a dial graduated in complete rotations of said shaft loosely supported by said operating means adjacent the outer end of said shaft; a rotatable shaft passing non-coaxially through said operating means; gear means fixed to an end of said shaft in angular and reaction revolvable engagement with said stationary gear means; gear means fixed to the other end of said shaft and driven gear means fixed to said dial and having a drive-receiving periphery of a predeterminedly lower power-ratio than that of said stationary gear means and angularly and rotatably engaging said last named gear means; whereby operation of said operating means concurrently rotates said shaft and registers rotations and fractions thereof.

2,532,971

METHOD AND APPARATUS FOR PRODUCING OPTICAL COATINGS

Oscar van Leer, Tujunga, and Morris A. Zook, Jr., Rosemead, Calif., assignors, by mesne assignments, to Pacific Universal Products Corporation, Pasadena, Calif., a corporation of California

Application April 12, 1947, Serial No. 741,110
3 Claims. (Cl. 117—106)



1. A process for evaporative coating of object surfaces in vacuum comprising: supporting on a substantially horizontal axis an object to be coated in an evacuated chamber; evaporating coating material in said evacuated chamber at a source point below said object; continuously rotating said object about said axis at about 50 R. P. M. in said chamber during said evaporation to expose directly different portions of the surfaces of said object alternately to said vapors emanating from said source below and to radiant heat from a source located above said object, said radiant heat maintaining said object at a temperature of approximately 450° F.

2,532,972

SCREW HOLDER AND STARTER

Donald D. Vertin, Rapid City, S. Dak.

Application April 18, 1947, Serial No. 742,429
2 Claims. (Cl. 145—50)

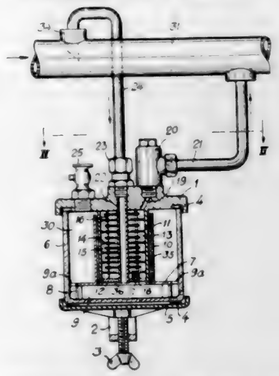
2. A screw holder and starter of the class described comprising a sectional shank embodying duplicate limbs, said limbs being substantially semi-circular in cross section and having their flat sides opposed and fitting together, a knob having a socket, corresponding ends of said limbs fitting in and being secured in said socket, opposite end portions of said limbs being resilient and spring biased apart, the free terminal portions having jaws, said jaws including hooked claw portions V-shaped in cross section and said claw portions having shoulder portions constructed to rest against a headed fastener or to fit into the kerf portion of a headed fastener, an elongated sheath slidable on the intermediate portion of said shank, the intermediate portion of said sheath having a shoulder, a finger-knob fixed flush with one end of said sheath and parallel and in close proximity to said first named knob, a relatively short tubular shank fixed at one end to said first knob, surrounding said solid shank and having one end telescoping into the adjacent end of said sheath, and a coiled spring situated in said sheath, surrounding the coacting portion of the solid shank, bearing at one end against said shoulder and bearing at its opposite end against the adjacent end of said tubular shank.

2,532,973

APPARATUS FOR PROPORTIONING METAPHOSPHATE TO A LIQUID

Åke Henning Wallentin, Henry Olof Carlsson, and Johan Helmer Vesterlund, Goteborg, Sweden

Application February 25, 1948, Serial No. 10,774
In Sweden April 9, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 9, 1962
2 Claims. (Cl. 210—36)



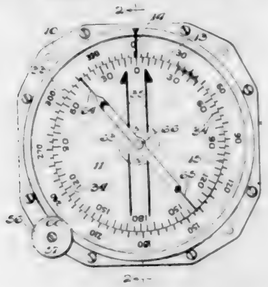
1. An apparatus for proportioning metaphosphate to a liquid flowing through a conduit, comprising in combination a substantially annular storage chamber adapted to receive metaphosphate, the bottom of said chamber having at least one opening, a reservoir located below said chamber and having a smaller depth than said chamber, said reservoir being adapted to receive, through said opening, strong metaphosphate solution sinking down from said chamber, a mixing chamber located within the inner walls of said storage chamber and above said reservoir and having a bottom and side walls which slightly project below the bottom of the mixing chamber, an inlet pipe for supplying to the apparatus a small portion of the liquid flowing through said conduit, said pipe extending downwards through the bottom of said mixing chamber and opening near the top of said reservoir, the bottom of said mixing chamber having an inlet opening for liquid admixed with metaphosphate, said inlet opening connecting the reservoir with the mixing chamber, and means for connecting said mixing chamber with said conduit, said inlet pipe projecting into said conduit so as to provide a take-up for part of the liquid in the conduit and to cause said part to flow through the inlet pipe, reservoir and mixing chamber, and back to said conduit.

2,532,974

NAVIGATION SYSTEM

Louis A. Warner, New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application October 31, 1944, Serial No. 561,210
4 Claims. (Cl. 116—129)



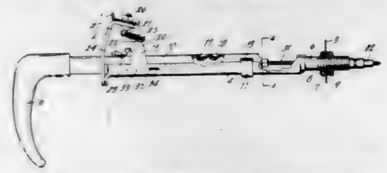
3. An aircraft navigational indicating instrument comprising a casing, a lubber line fixed relative to said casing, a compass disc mounted in said casing and rotatable relative to said lubber line and having graduations in degrees readable against said lubber line, a track reference disc having an index and a scale in degrees at each side of said index and readable against said lubber line and said graduations, a pair of parallel lines on said track reference disc at opposite sides of the axis of said disc and equally spaced therefrom, said track reference disc normally rotating with said compass disc, means to rotate said reference disc relative to said compass disc for adjustment, and a radio compass pointer rotatable relative to said discs and cooperating with said parallel lines, said scales and said graduations to indicate the course of the aircraft in which the instrument is mounted.

2,532,975

REMOTE-CONTROL DEVICE FOR BRAKES AND OTHER REMOTE CONTROL PARTS

Herman Weber, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich.

Application March 27, 1950, Serial No. 152,189
9 Claims. (Cl. 74—503)



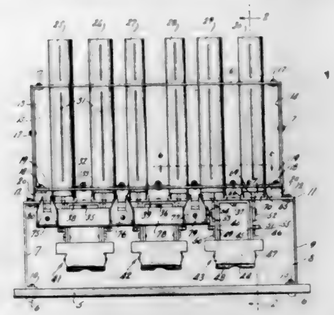
1. In a control device, the combination of an elongated support member of upwardly facing channel section having a bracket at its front end and a tubular extension at its rear end, an adjusting member of downwardly facing channel section slidable and tiltable within said support member and disposed through said bracket and having inturned lugs at its rear end and a grip at its front end, the web of said adjusting member being conformed to provide a longitudinal series of inset rearwardly facing ratchet teeth with slideways at each side of the teeth and in substantially the plane of the tips of the teeth, upwardly projecting pivot ears on said support member adjacent its front end and having pivot openings therein opening downwardly facilitating the engagement of pawl pivots therewith, a pawl provided with pivots disposed in said pivot openings of said ears, said pawl being conformed to provide a fulcrum portion in advance of its pivots which slidably and tiltably engages said ways on said adjusting member, said pawl having a downturned tooth in front of its fulcrum portion coacting with said ratchet teeth, a biasing spring for said pawl, and a transmission member disposed through said tubular portion of said support and engaged between said lugs at the rear end of said adjusting member.

2,532,976

COIN DISPENSING APPARATUS

Wallace J. Weirich, Arthur J. Weirich, and Wallace V. Weirich, Chicago, Ill.

Application June 11, 1947, Serial No. 753,848
5 Claims. (Cl. 133—4)



1. In a coin dispensing apparatus, a pair of spaced apart coin tubes containing coins of the same denomination, a mounting plate upon which said coin tubes are vertically supported, a U-shaped bracket depending from said mounting plate and supported thereon, a separate coin ejector pivotally supported on each leg of the U-shaped bracket in a position below each coin tube, and a manually engageable push plate bridging said pair of coin ejectors across the U-shaped bracket for simultaneously actuating said coin ejectors to dispense a plurality of coins from said coin tubes.

2,532,977

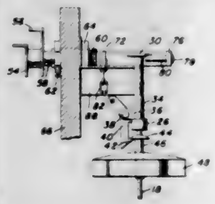
DUAL FLUSHING SYSTEM FOR TOILETS

Delmas J. White, Greenfield, Ind.

Application August 25, 1949, Serial No. 112,346
3 Claims. (Cl. 4—67)

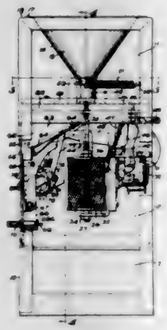
1. In a toilet flushing system, the combination of a tank having an outlet provided with a flushing valve including a seat, a valve member engageable with said seat and liftable therefrom, and a vertically slidable rod secured at its lower end to said valve member, a bearing provided in said tank to slidably receive an intermediate portion of said rod, and a dual flushing control comprising a float slidable on said rod below said bearing, a stop provided on the rod below said float

and engageable by the latter for sliding the rod downwardly and engaging said valve member with said seat, a cap secured to the upper end of said rod, a sleeve slidably positioned on the rod between said bearing and said cap, a locking member pivoted to said sleeve and engageable with said float to prevent downward movement of the latter, a pair of selectively and independently



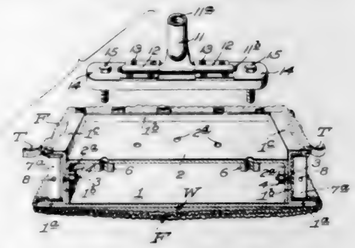
manipulable actuating elements provided on said tank, an arm provided on one of said elements and engageable with said cap for lifting said rod while said float is locked by said locking member, and a second arm provided on the second element and operatively connected to said locking member whereby the latter may be disengaged from said float and said rod lifted through the medium of said sleeve and cap.

2,532,978
COIN COLLECTOR APPARATUS
Granville M. Wilcox, Lincoln, R. I., assignor to Max L. Grant, Providence, R. I.
Application February 24, 1944, Serial No. 523,741
2 Claims. (Cl. 194—6)



1. In a coin collector, a coin display compartment comprising an elongated coin passageway having side edges spaced to receive one coin only and having a backing plate and a transparent front plate spaced to receive one coin in thickness only, a housing for receiving deposited coins, and transfer mechanism for transferring coins in sequence into said passageway, whereby said coins are displayed in said passageway edge to edge, a movable stop at the lower end of said passageway movable to release the displayed coins from said passageway, means for moving said stop after a predetermined number of coins have been transferred to said passageway, comprising mechanism actuated by a subsequently deposited coin, and means operated by said mechanism to prevent passage of said subsequently deposited coin into said passageway until the displayed coins have been released and the movable stop is in non-release position.

2,532,979
DEVICE FOR SANDING FLOORS OR THE LIKE
Nathan B. Wilson, Savannah, Ga.
Application June 10, 1949, Serial No. 98,370
17 Claims. (Cl. 51—187)

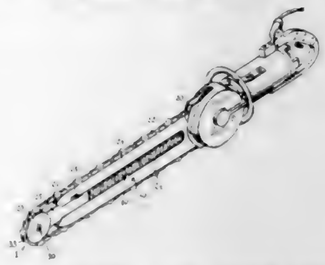


1. A device of the character specified; comprising a base plate of rectangular shape having its edge portions turned back upon themselves and further turned upwardly normal to the plate; a second plate having downturned flanges at its edges closely fitting between and against the upturned portions of the base plate and secured thereto, a contractible clamp member around the upturned portions of the base plate adapted to clamp a flexible sheet between the upturned portions and clamp member; and a handle secured to the second plate.

2,532,980
THE PRODUCTION OF BENZYL PENICILLIN
Harold B. Woodruff, Westfield, and Alma H. Larsen, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application August 7, 1948, Serial No. 43,155
2 Claims. (Cl. 195—36)

1. A process for the production of benzyl penicillin that comprises inoculating an aqueous nutrient medium with a non-pigment secreting mutant of *Penicillium chrysogenum* Q–176, characterized as producing enhanced yields of penicillin and as producing benzyl penicillin in a proportion in excess of 80% of the total penicillins, and conducting fermentation of the inoculated medium under submerged aerated conditions.

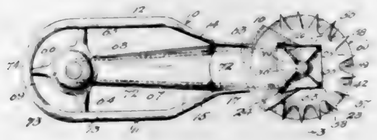
2,532,981
CHAIN SAW FRAME
Charles V. Wolfe, Indianapolis, Ind., assignor to E. C. Atkins and Company, Indianapolis, Ind., a corporation of Indiana
Application February 9, 1946, Serial No. 646,533
6 Claims. (Cl. 143—32)



1. For chain saws, a blade having chain-saw guide grooves in its two longitudinal edges and

an intermediate longitudinal spring pocket open at one end, said pocket being defined by a continuous web extending between the longitudinal edges of said blade and two longitudinally extending flanges located in a plane parallel with the plane of said web and projecting respectively from said edges toward each other but having their adjacent edges substantially spaced from each other, a plate slidably mounted in the open end of said pocket and provided at its outer end with a chain-saw guide in the same plane as said guide grooves, and a compression spring seated in said spring pocket and engaged for support and guidance between said web and said flanges and acting to project said slidable plate.

2,532,982
MOTOR OPERATED HEDGE OR GRASS TRIMMER
Peter De Young, Clifton, Tex.
Application January 29, 1946, Serial No. 644,074
5 Claims. (Cl. 30—167)

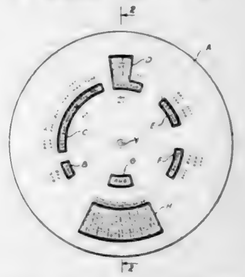


1. A trimmer comprising a tubular substantially U-shaped frame constituting a hand grip and having spaced parallel flattened end portions, said flattened end portions having upper and lower surfaces and side surfaces, an upper bearing plate contacting the upper surfaces of said end portions and having depending flanges bearing against the side surfaces of said end portions, a lower bearing plate contacting the lower bearing surfaces of said end portions and having upstanding flanges bearing against the side surfaces of said end portions, fasteners joining and clamping the bearing plates to the end portions, upper and lower bearing sleeves fixed to said bearing plates and spaced from each other, a tube received in said bearing sleeves, a bolt projecting through the tube and having a threaded upper end, a washer on the upper end of said bolt and a nut threaded on the upper end of said bolt and urging the washer against the tube, a pulley mounted on the tube and disposed between said bearing sleeves, said tube having an enlarged lower end disposed beneath the lower bearing sleeve to limit upward movement of the tube relative to the bearing sleeves, said bolt having a lower head portion, a blade received on the bolt and clamped between the head portion of the bolt and the enlarged lower end of the tube, a motor braced to the frame, an endless belt between the motor and the pulley, a first shield fixed to the frame and the motor for the belt, and a further shield secured to the frame for the blade.

2,532,983
PLYWOOD
Witty Lysle Alderson, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, a corporation of Delaware
No Drawing. Application June 19, 1945, Serial No. 600,407
10 Claims. (Cl. 154—133)

5. A method for obtaining improved plywood comprising subjecting to a pressure of from 100 to 400 pounds per square inch and heating from 100° C. to 175° C., a plurality of laminae comprising at least two wood laminae having a bonding layer therebetween which comprises a heat-convertible composition comprising polymeric material and a minor amount of an organic peroxy compound, the polymeric material in said composition consisting of that selected from the group consisting of (*a*) a polymerized vinyl carboxylate and (*b*) a mixture of said carboxylate with from 1% to 30% of its weight of an aldehyde condensation product selected from the class consisting of phenol-formaldehyde resols and heat-convertible, soluble-stage melamine-formaldehyde and urea-formaldehyde condensation products, said peroxy compound being present in amount of from 1% to 30% by weight of said vinyl carboxylate.

2,532,984
PERPETUAL CALENDAR
Souren Z. Avedikian and Diran G. Avedikian, Larchmont, N. Y., assignors to Tidings Corporation of America, Larchmont, N. Y., a corporation of New York
Application April 20, 1948, Serial No. 22,184
4 Claims. (Cl. 40—115)



3. A perpetual calendar including a cover, a first element having a face on which there are numbers representing the individual years of a century, said numbers being in consecutive order in four rows disposed side by side with the first number of each successive row twenty-eight years greater than the first number of the preceding row, and with the number 4 and all multiples of four that are less than one hundred marked in a different color from the other numbers to indicate leap years, a second element having a row of twenty-eight divisions, each with legends representing a day of the week, the days of the week being in consecutive order but skipping one day after each group of four successive days and having the last day of each group marked in different color for indicating the beginning of a leap year, fastening means holding the cover and the first and second elements in assembled relation and all movable with respect to one another in directions to shift the row of day legends along the rows of year numbers to bring different day legends into position adjacent different year numbers, groups of numbers representing centuries and located at different zones on the side of the first element opposite to the year numbers, an indicator integral with the second element and extending through a slot in the first element adjacent said zones, said indicator being correlated with the day legends on the second element so as to bring predetermined days into position adjacent predetermined year numbers when the indicator is in register with the respective century zones, said indicator having a number 100 of leap year color in position to overlie the number 100 on the first element when said indicator is in

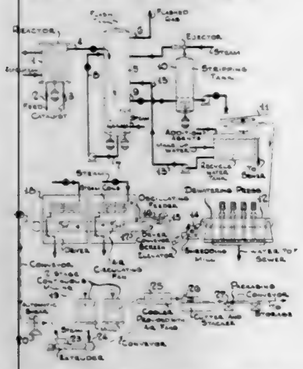
position to register with one particular zone of century numbers, said cover having windows through which any selected year number can be exposed and through which day legends for the first day of every month in the selected year are exposed, legends on the cover indicating which month of the year begins on the respective days represented by the day legends that are exposed through the windows, there being different legends for the months of a leap year, said cover having also an opening with the days of the week indicated along one edge of said opening, a calendar element connected to the cover and movable with respect to the cover and having the dates of the month indicated thereon in columns spaced to correspond with the day indications along the edge of said opening, and an additional element connected to the cover and movable with respect to the cover and having the names of all of the months of the year marked thereon, the cover having an aperture through which any one of the names of the months can be exposed.

2,532,985

PREVENTING THE STICKING OF POLYMERS TO DRYING, ETC., SURFACES

John H. Bannon, Cranford, and Stanley C. Lane, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 18, 1946, Serial No. 697,652
8 Claims. (Cl. 260—23.7)



1. The process of treating solid high molecular weight rubbery polymer prepared from iso-olefins at temperatures below about −20° F. in the presence of a Friedel-Crafts type catalyst which comprises passing the polymer through a zone heated to a temperature between 200 and 350° F., the polymer-contacting surfaces of which are coated with an oil of the fatty acid ester type and chosen from the class consisting of non-drying oils and semi-drying oils.

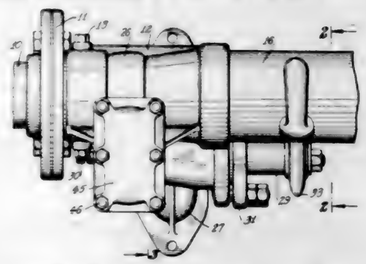
2,532,986

FIRE-EXTINGUISHING APPARATUS

Howard Edwin Bedford and Arthur Hall, Brentford, England, assignors, by mesne assignments, to Pyrene Manufacturing Company, a corporation of Delaware

Application November 20, 1946, Serial No. 711,170
In Great Britain November 7, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 7, 1965
13 Claims. (Cl. 169—15)

1. Fire extinguishing apparatus which may be used to deliver either mechanical foam or a plain stream of fire extinguishing liquid and which comprises a tubular receiver, means for projecting an aspirating jet of fire extinguishing liquid into said receiver to produce foam therein, means for admitting a gas into contact with said



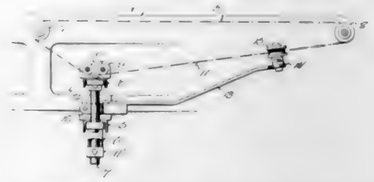
jet to be aspirated thereby, and means connected both to said admitting means and said projecting means for closing said admitting means and simultaneously moving the projecting means to increase the flow of liquid and thereby change said jet to a simple stream of the liquid.

2,532,987

BELT GUIDE AND TENSIONING DEVICE

Richard F. Berndt, Racine, Wis., assignor to Virkotype Corporation, a corporation of Virginia

Application April 19, 1947, Serial No. 742,758
7 Claims. (Cl. 74—241)



1. A guide for a continuous belt or web traveling over spaced carrier rolls comprising, a tension roller transversely engaging a stretch of said belt or web intermediate the carrier rolls and maintaining it under substantal tension, said tension roller being pivotally mounted for oscillation in a plane parallel to the plane of the engaged stretch to vary tension upon opposite sides of said belt and having its longitudinal axis offset from its axis of oscillation, and means effected by the position of said belt for oscillating said roller.

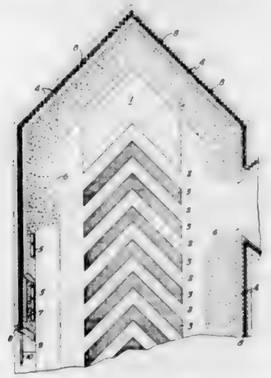
2,532,988

CONTINUOUS LIGHTING SYSTEM FOR AIRCRAFT LANDING STRIPS

Charles A. Bigelow, Houston, Tex.

Application March 5, 1947, Serial No. 732,567
5 Claims. (Cl. 240—1.2)

1. In combination with a special designated aircraft landing strip, a concrete housing means for housing a continuous lighting system; said housing means constructed upon the ground surface, adjacent to the designated landing strip; said housing means constructed on each side and parallel to the designated landing strip; said housing means consisting of two concrete walls or curbing, spaced apart a predetermined distance to receive the assembled installation of said continuous lighting system; said spaced apart concrete walls or curbing, constituting the housing means, terminating in a 45 degree point



at one and the same end of the designated landing strip.

2,532,989

AUTOMOBILE DOOR COVER

Angelo F. Biondi, Brooklyn, N. Y.

Application October 5, 1948, Serial No. 52,947
3 Claims. (Cl. 160—92)

2. In combination, an automobile having a top portion, a side door, a cover structure connected to the side of the top portion, said cover structure having a spring roller, a cover adapted to be pulled from the spring roller, and releasable means adapted to extend between the door and the cover whereby to automatically pull the cover as the door is opened.

2,532,990

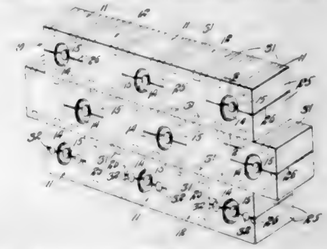
BURNER BLOCK

Emil Blaha, Cheltenham, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application June 23, 1945, Serial No. 601,305
11 Claims. (Cl. 158—1)

1. A refractory article comprising a body of refractory material of poor thermal conductivity having a first face thereof adapted to be subjected to a source of heat at an elevated temperature, said body having a recess which extends from a region adjacent to the first face to a region adjacent to an opposite face thereof, and a rigid tie rod in the recess which is formed of refractory material of greater tensile strength than the first-mentioned refractory material, the recess and tie rod therein being formed and arranged to hold said body together when said

first face is subjected to the heat source and stresses are induced in the body due to uneven



heating thereof at regions adjacent thereto and removed from said first face.

2,532,991

CARROTING BRUSH AND METHOD OF CARROTING FUR ON A SKIN WITH SAID BRUSH

William Lewis Braun, Norwalk, Conn.

No Drawing. Application February 8, 1946, Serial No. 646,495
16 Claims. (Cl. 69—22)

1. A brush comprising bristles of sufficient strength and stiffness combined with flexibility to apply a carroting solution to and brush it into fur on a skin without tearing the fur from the skin, which bristles also have the characteristic of high resistance to deterioration under the action of carroting solutions, and which bristles are of substantially uniform composition throughout and comprise a vinyl resin which is a copolymer of vinyl chloride and vinyl acetate.

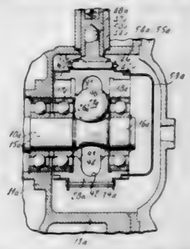
9. A method of carroting fur on a skin with a brush comprising bristles of sufficient strength and stiffness combined with flexibility to apply a carroting solution to and brush it into the fur on a skin without tearing the fur from the skin, which bristles also have the characteristic of high resistance to deterioration under the action of carroting solutions, and which bristles are of substantially uniform composition throughout and comprise a vinyl resin which is a copolymer of vinyl chloride and vinyl acetate.

2,532,992

EPICYCLIC DRIVE

Lindsay H. Browne, Westport, Conn., assignor to American Brake Shoe Company, a corporation of Delaware

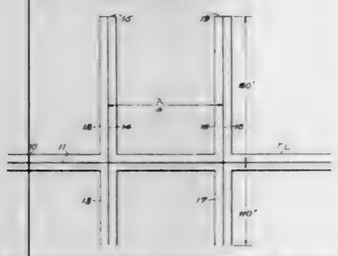
Application July 1, 1944, Serial No. 543,120
17 Claims. (Cl. 74—25)



3. In an epicyclic drive, a driven shaft, a housing including at least one bearing supporting said shaft, a reciprocable member positioned in said housing at right angles to said shaft, an outwardly facing inner race formed on said shaft, a hollow member having an inwardly facing outer

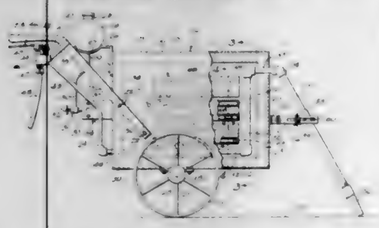
race formed therein, a single unitary roller means between said races, means on said shaft cooperating with said hollow member for maintaining said roller means in rolling contact with both said races at all times, and means operatively connecting said hollow member to said reciprocable member, whereby said last member is reciprocated at a number of strokes per minute substantially less than the number of revolutions per minute of said shaft.

2,532,993
BAND-PASS FILTER
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 21, 1945, Serial No. 600,724
7 Claims. (Cl. 178—44)



1. A band pass filter arrangement for use with a two-conductor transmission line including a pair of two-conductor transmission line sections connected in shunt across said first mentioned line and spaced apart along said first mentioned line a distance equal to one quarter wavelength at the mean operating frequency, each of said sections being connected to said line at a point intermediate their length, the length of each of said transmission line sections from said point of connection to one end having a value at which a low resistance shunt is presented at one end of the pass band and the length of said transmission line section to the other being a value at which a low resistance shunt is presented at the other end of the pass band, whereby substantially zero attenuation is effected on said pass band and substantially infinite attenuation is effected at pre-assigned frequencies, one on either side of said pass band.

2,532,994
HOT-BLAST ROAD REPAIRING MACHINE
Wilfred G. Chausse, Detroit, Mich.
Application July 12, 1946, Serial No. 683,074
3 Claims. (Cl. 126—110)

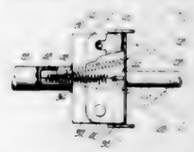


1. A roadway crack-cleaning machine comprising a movable support having an oven thereon, a compressed air heating duct mounted in said oven, a compressed air supply conduit connected to said heating duct, a compressed air outlet conduit connected to said heating duct remote from said supply conduit, a nozzle connected to said outlet conduit forwardly of said support and adapted to be directed downwardly into close proximity to the roadway, a heater mounted adjacent said heating duct, a handle structure connected to said support for guiding said nozzle along the cracks in the roadway, a transversely-disposed axle structure mounted on said support approximately beneath the center of gravity of said machine, and a pair of ground-engaging supporting wheels mounted on said axis structure whereby to sustain the major portion of the weight of said machine on said pair of wheels and facilitate the maneuverability of said machine.

2,532,995
HEATED HOSE
Wilfred G. Chausse, Detroit, Mich.
Application December 1, 1947, Serial No. 789,040
2 Claims. (Cl. 257—241)

1. A heated hose construction comprising a pair of spaced tubular members, a hose joined at its opposite ends to said tubular members, and an elongated approximately U-shaped flexible heating conduit extending from one of said tubular members toward the other tubular member within said hose substantially throughout the length thereof and back to the first-mentioned tubular member, said conduit having couplings joined thereto for connection to an external source of heating fluid, one of said tubular members having a nozzle portion at the outer end thereof, said heating conduit extending into the interior of said nozzle portion.

2,532,996
HINGE STRUCTURE FOR SPRAYING ATTACHMENTS
Otho A. Clark and Ocie D. Hughes, Atherton, Mo.
Application April 5, 1948, Serial No. 18,968
2 Claims. (Cl. 16—183)

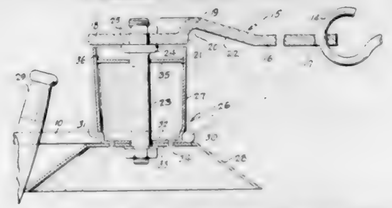


2. A hinge comprising a plate having a pair of spaced notches formed in one edge thereof; a U-shaped member having a bight and a pair of spaced legs, said plate having a portion thereof adjacent said edge disposed between said legs for slidable engagement therewith; a pin normally within each notch respectively and interconnecting said legs; a spring attached at one end thereof to said member adjacent said bight and extending over the plate, said spring being adapted for rigid securement at its opposite end; a hinge pin disposed between said legs of the member adjacent said bight thereof for rotative movement on an axis perpendicular to said pins; and a U-shaped bracket embracing said member and having one leg thereof joined to each end respectively of said hinge pin adjacent the free ends of the legs of the bracket.

2,532,997
PRODUCTION OF ALKALINE EARTH SULFONATES
Charles A. Cohen, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 14, 1947, Serial No. 786,135
12 Claims. (Cl. 252—33)

1. A process for producing a substantially pure oil-soluble alkaline earth metal sulfonate solution in mineral oil concentrations of the order of 30 to 70% sulfonates by weight, based on the total weight of the solution, which comprises the steps of acid treating a mineral oil with concentrated H_2SO_4 to produce sulfonic acid of at least 400 combining weight, contacting said treated oil with filter aid to remove suspended impurities, extracting said sulfonic acid with an aqueous water soluble aliphatic alcohol, adding mineral oil to said extract, neutralizing said sulfonic acid with a basic alkaline earth compound, and adding water to cause said aqueous alcohol to form a separate layer leaving sulfonates dissolved in said added mineral oil.

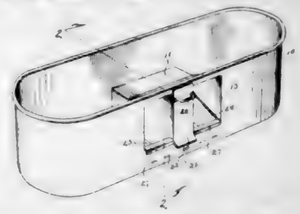
2,532,998
CLOTHESLINE PULLEY ASSEMBLY
John W. Conway, Bridgeport, Conn.
Application May 21, 1947, Serial No. 749,541
3 Claims. (Cl. 254—190)



1. A clothesline pulley assembly comprising a supporting bar provided with means at one end for mounting it on a supporting hook or the like for free lateral and up and down rocking movements, a depending bolt at the other end, a line supporting pulley mounted on the bolt comprising an upright somewhat tapered body portion with the larger diameter at the top, a downwardly and outwardly tapered flange portion at the lower end of the body portion, and said bar including a head portion covering the upper end of the pulley and a transverse curved upward recess in the under side of the bar at the edge of said body portion to receive the line from the body portion and support it on a given dropping of the pulley by sagging of the line.

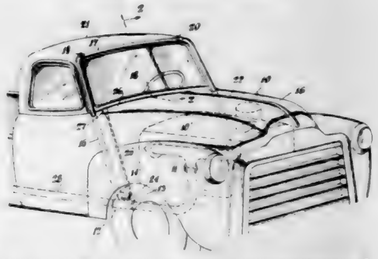
2,532,999
HEATABLE WATER TANK
Donald J. Donahoe and Paul J. Donahoe, Fort Dodge, Iowa
Application May 17, 1948, Serial No. 27,576
5 Claims. (Cl. 119—73)

1. In a device of the class described, a main tank open at its top and having an opening in two opposite sides, a compartment extending across a portion of the bottom of said tank and communicating at each end with the two oppositely arranged openings in the side of said tank, a door closing one of said openings, two spaced apart reservoirs in said compartment spaced adjacent the other said opening and spaced above the bottom of said compartment, a plate extending between the tops of said reservoirs, two trough units connected together and having their bottom portions normally extending into said two reservoirs respectively, water passageways in the side wall of each of said trough units, a means



for connecting the inside of said main tank to said reservoirs, a hook portion on said two trough units extending over the marginal edge of the adjacent tank side opening, and a heating means inside said compartment.

2,533,000
WINDSHIELD DEICING APPARATUS
Edward T. Duncan, Jacksonville, Ill.
Application April 2, 1948, Serial No. 18,533
1 Claim. (Cl. 20—40.5)

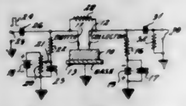


Deicing apparatus for the windshield of an automotive vehicle, comprising a Y tubular member extending from the exhaust line of the engine of said line, and having a plurality of extensions, a gas conducting line having a perforated portion communicating with one of the extensions of said tubular member and extending around the margin of the windshield area of the vehicle and opening to the atmosphere at a position below the windshield area, another conduit leading from the other of the extensions of the tubular member to the muffler line of said vehicle, said tubular member having an operable butterfly valve, to divert the flow of exhaust gases from the exhaust line into either the muffler line or the gas conducting line, and means extending from the butterfly valve to the vehicle dashboard for actuating the valve to selectively divert the gas from the exhaust line to the gas conducting and muffler lines, said tubular member having a restricted nozzle in its gas conducting line above the butterfly valve to permit admixing of air with the exhaust gas as it passes around the windshield area.

2,533,001
FLIP-FLOP COUNTER CIRCUIT
Everett Eberhard, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1949, Serial No. 90,685
26 Claims. (Cl. 171—97)

26. A two-stage counter comprising a first stage including a first semi-conducting body, a first base electrode, a first emitter electrode and a

first collector electrode; a second stage including a second semi-conducting body, a second base electrode, a second emitter electrode and a second collector electrode; means including at least one source of potential for biasing said collector electrodes in a relatively non-conducting polarity with respect to their associated base electrodes and for biasing said emitter electrodes in a relatively conducting polarity with respect to their associated base electrodes, an impedance element connected between each of said collector electrodes and said source, a resistor connected between each base electrode and one terminal of said source, a network including a further resistor shunted by a capacitor and connected between each emitter electrode and its associated collec-



tor electrode, a first differentiating network connected between a point of relatively fixed potential and said first emitter electrode for impressing trigger pulses on said first emitter electrode, a second differentiating network connected between said first collector electrode and said second emitter electrode for coupling said two stages, a clipper connected between said second differentiating network and said second emitter electrode, means for biasing said clipper in a predetermined direction to remove pulses of predetermined polarity derived from said second differentiating network, and a third differentiating network connected between a point of relatively fixed potential and said second collector electrode for deriving differentiated output pulses at one quarter the rate of occurrence of said trigger pulses.

2,533,002

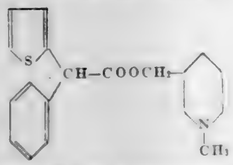
1-METHYL-3-PIPERIDYLMETHYL PHENYL-(2-THIENYL) ACETATE, ITS SALTS AND PRODUCTION THEREOF

Rolland F. Feldkamp, Troy, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,489

5 Claims. (Cl. 260—294.3)

1. A compound selected from the group consisting of 1-methyl-3-piperidylmethyl phenyl-(2-thienyl) acetate having the formula



and acid addition and quaternary ammonium salts thereof.

2,533,003

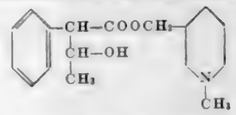
1-METHYL-3-PIPERIDYLMETHYL 3-HYDROXY-2-PHENYLBUTANOATE, ITS SALTS AND PRODUCTION THEREOF

Rolland F. Feldkamp, Troy, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,490

5 Claims. (Cl. 260—294.3)

1. A compound selected from the group consisting of 1-methyl-3-piperidylmethyl 3-hydroxy-2-phenylbutanoate having the formula



and acid addition and quaternary ammonium salts thereof.

2,533,004

FIBRIN CLOTS AND METHODS FOR PREPARING THE SAME

John D. Ferry, Woods Hole, Mass., and Peter R. Morrison, Washington, D. C., assignors to United States of America as represented by the Secretary of War

No Drawing. Application October 27, 1943, Serial No. 507,904

5 Claims. (Cl. 260—112)

1. A method for forming new compositions of matter which comprises the following steps, preparing a blood protein solution containing fibrinogen in excess of 10% of the total protein, said solution containing at least 0.5% fibrinogen, adding to the solution a substance selected from the group consisting of polyhydric alcohols and starches, and converting the fibrinogen into fibrin, by adding thrombin to said solution to form a fibrin clot.

2,533,005

TEETER-TOTTER AND MERRY-GO-ROUND

Earl E. Franz, Canton, Ohio

Application August 8, 1945, Serial No. 609,513

12 Claims. (Cl. 272—30)

4. An amusement device of the character described including a pedestal, a cross arm carried by the pedestal, a beam having a plurality of notches in the lower edge of its central portion for selective engagement with said cross arm, and a pivoted gravity operated locking member upon the beam arranged to normally engage beneath said cross arm.

2,533,006

KEY IDENTIFICATION HOLDER

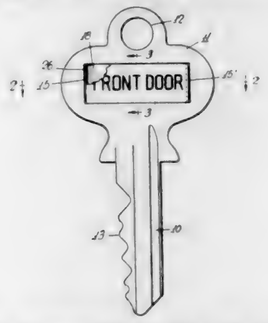
William Goldsmith, New York, N. Y.

Application May 17, 1945, Serial No. 594,348

1 Claim. (Cl. 40—2)

A flat key of the type having a head apertured at one end and a stem extending lengthwise from its opposite end, said head having slots formed therethrough in the area thereof between its said aperture and stem and close to the opposite lateral sides thereof, said slots extending lengthwise of the key and in parallel spaced apart relation, the thickness of that portion of the head between the slots being reduced in thickness to provide depressions on both faces of the head extending from slot to slot, and a strip of material adapted to be permanently creased and to permanently maintain its shape as bent at the creases, the said strip being of a

width to pass through the said slots and of a thickness to be fully received in the said depressions and serving to associate identifying indicia with the key, the length of the strip being substantially twice the distance between the slots, the ends of the strip being passed through the slots with the intermediate portion of the strip received in the depression in one face of the key head and with the terminal portions of the strip of equal length and bent into opposing relation



to the said intermediate portion and received in the depression in the other face of the head whereby the strip is retained in place by the channel formation between the said terminal portions and the opposite halves of the intermediate portion and by the said permanent creases of the shaped strip at the corners defined by the said slots and depressed surfaces, said intermediate portion carrying information indicia as to the key.

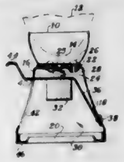
2,533,007

EGG OPENER HAVING PIVOTED HAMMER

Richard A. Haegele, Elmhurst, Ill.

Application November 15, 1945, Serial No. 628,943

6 Claims. (Cl. 146—2)



1. An appliance of the character set forth comprising an egg-engaging cup of light-gauge metal having a base and an upstanding edge, a reinforcing impact plate in engagement with said base, a standard for carrying said cup, a resilient mount allowing limited relative axial movement of said cup with respect to said standard, a hammer for applying an axial blow to said cup, said reinforcing impact plate so constructed and arranged as to protect the base of said cup and to distribute the force of impact to said upstanding edges of said cup with a minimum of attenuation.

2,533,008

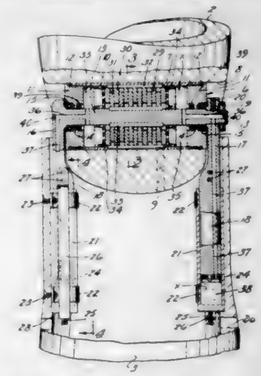
ARTIFICIAL LEG

Arnold B. Hanson, Minneapolis, Minn., assignor of fifty per cent to Gust Johnson, Minneapolis, Minn.

Application November 5, 1947, Serial No. 784,272

13 Claims. (Cl. 3—2)

11. In an artificial leg, cooperating upper and lower leg sections, a knee joint connecting adjacent ends of the leg sections for pivotal movements and for limited endwise movements one with respect to the other thereof, a brake for controlling relative pivotal movements of the leg sections, said brake comprising axially contiguous cooperating brake elements respectively mounted for common pivotal movements with



opposite leg sections and for movements toward and from one another axially of the knee joint pivot axis; and a load transferring connection between the leg sections including the said cooperating brake elements, whereby application of the wearer's weight to the leg will be utilized to set the brake.

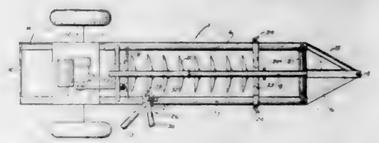
2,533,009

DISK SHARPENER

Carl R. Harsh, Newton, Iowa

Application April 18, 1947, Serial No. 742,304

3 Claims. (Cl. 51—161)



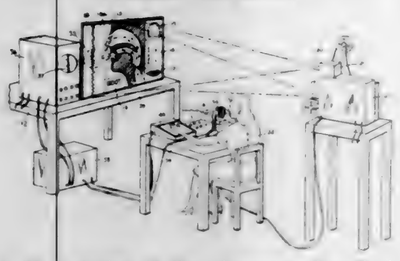
1. A disc sharpener designed to rest on a supporting surface comprising; an elongated frame of two spaced apart pipe members so positioned that a plane extending through their longitudinal axes forms an angle with the plane of a supporting surface, an auxiliary frame secured to the rear end of said frame; said auxiliary frame having its bottom portions parallel to the plane of a supporting surface, a means secured to the bottom portion of said auxiliary frame for rollably holding the rear end of said frame above a supporting surface, a disc shaft supporting and gripping member fixed at one end of said frame, a source of power for rotating said disc shaft supporting and gripping member fixed to said frame, a means for operatively connecting said power source and said disc shaft gripping and supporting means, a disc shaft supporting and centering mechanism slidably adjustable and mounted on the pipe members of said frame for rotatably supporting one end of a disc shaft at times, a disc sharpening tool assembly slidably and pivotably mounted on said frame, and a means for universally and detachably hinging the front end of said frame to a prime mover at times.

2,533,010

METHOD AND APPARATUS FOR VISUALLY DETERMINING UNKNOWN VIBRATION CHARACTERISTICS

Joseph E. Henabery, Jackson Heights, N. Y.

Application June 7, 1945, Serial No. 598,064
7 Claims. (Cl. 35—1)



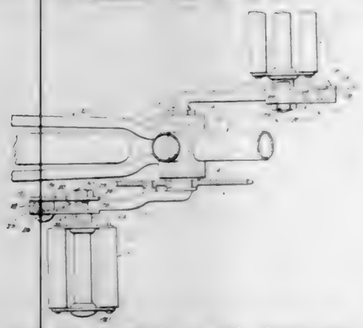
1. In a device of the character described, a projector adapted to project an image from a film having an outline produced by sound and having known characteristics, means operable by sound for producing a visible image having an outline denoting the characteristics of the sound acting upon said means, and means for placing said images in juxtaposition whereby they may be simultaneously visually compared.

2,533,011

BICYCLE PEDAL ADAPTER

William C. Hill, Detroit, Mich.

Application March 23, 1948, Serial No. 16,437
4 Claims. (Cl. 74—594.1)



1. A crank-shortening pedal adapter for a bicycle having pedals on pedal axles in bores in the ends of cranks attached to the opposite ends of a crankshaft, said adapter comprising a body of bent sheet material adapted to lie adjacent and partially encircle said bicycle crank, said body having a plurality of longitudinally-spaced transverse holes, and a fastener adapted to be threaded through one of said holes into one of said pedal axle bores, the other hole being disposed nearer said crankshaft than said first-mentioned hole and adapted to receive said pedal axle, said body being of approximately U-shaped cross-section with side walls extending substantially parallel to one another and adapted to engage the opposite sides of said crank.

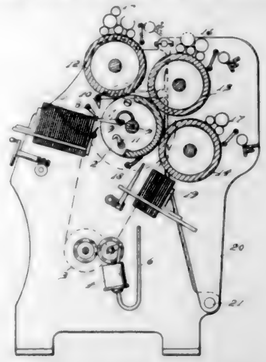
2,533,012

ROTARY MULTICOLOR PRINTING PRESS

Arthur S. Huckins, Brookline, Pa.

Application May 30, 1945, Serial No. 596,739
3 Claims. (Cl. 101—175)

1. In a multicolor, rotary, printing press, an impression cylinder having internal suction means and gripping means to retain independently fed sheets thereon, and having a gear on its shaft, a paper stack from which sheets are transferred from a stand still position by the suction means to the impression cylinder, three color cylinders of the same size as the impression cylinder and their inking mechanism disposed around said impression cylinder and each having a gear meshing directly with the gear of the impression cylinder, a stripper to remove printed sheets from the impression cylinder, one of said color cylinders being located in proximity to and above the paper stack offcenter of the impression cylinder and the other two color cylinders being located at the stripper side of the impression cylinder, a rack to which the sheets are guided by said stripper, and means to occasion the cyclical operation of said cylinders and suction means.

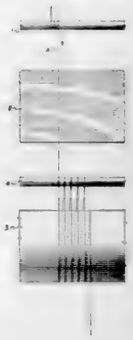


2,533,013

METHOD AND APPARATUS FOR THE TWO-STAGE DRAW OF SYNTHETIC FUNICULAR STRUCTURES

Harold Frederick Hume, Marshallton, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application April 27, 1949, Serial No. 89,918
5 Claims. (Cl. 18—8)



1. Apparatus for drawing heat-stretchable yarns and like structures of synthetic filament-forming material in two stages comprising in combination a heated, non-rotatable snubbing pin in the path of the yarn to be stretched, additional stationary means to heat the yarn as it comes from said pin, and means to impose a stretching tension on yarn heated by said pin and by said additional means.

2,533,014

REMOVABLE HANDLE FOR KNIVES

Benjamin D. Jacobson, New Brunswick, N. J.

Application July 2, 1949, Serial No. 102,820
7 Claims. (Cl. 30—342)

3. A knife handle comprising a pair of complementary handle sections for disposition on respective sides of a knife blade handle portion having openings formed therethrough, a plurality of pins projecting from one of said handle sections for entering said openings, a head formed on one of said pins, a head engaging member on the other of said handle sections, said other handle section being formed with pin receiving openings, a slide mounted on said other handle section and connected to said head engaging member so as to effect sliding movement thereof, said sliding movement effecting either engagement or disengagement of said head so as to lock or unlock the handle sections together with a knife blade handle portion maintained between said handle sections, said other handle section being formed with a central cutout in which said slide is mounted, and a pair of ledges mounted at the sides of said cut-out, said slide being formed with side flanges slidably received below said ledges, said head engaging member depending from the bottom surface of said slide.

2,533,015

HERBICIDAL COMPOSITION

Leo Z. Jasion, Elizabeth, and Lawrence T. Eby, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 26, 1948, Serial No. 46,374
5 Claims. (Cl. 71—2.4)

3. A herbicidal composition comprising decyl acetoacetate as the active ingredient admixed with a dispersing agent which lowers the surface tension of water and thereby promotes aqueous emulsions of decyl acetoacetate.

2,533,016

REGENERATION OF SYNTHETIC RUBBER

Theodore A. Johnson and Harry H. Thompson, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application December 12, 1946, Serial No. 715,638
1 Claim. (Cl. 260—2.3)

A process for reclaiming a vulcanized rubber-like copolymer of butadiene-1,3 and styrene which comprises subjecting the copolymer to the alkali process for reclaiming natural rubber and thereafter masticating the copolymer with from about one to five percent of ethylene glycol.

2,533,017

RECLAIMING SYNTHETIC RUBBER

Theodore A. Johnson and Harry H. Thompson, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application December 12, 1946, Serial No. 715,639
1 Claim. (Cl. 260—2.3)

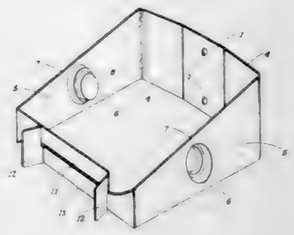
A process for reclaiming a vulcanized rubber-like copolymer of butadiene-1,3 and styrene, which comprises subjecting the copolymer to the alkali process for reclaiming natural rubber and thereafter masticating the copolymer with from about one to five percent of a polyethylene glycol.

2,533,018

TOILET PAPER HOLDER

Samuel M. Kandarian, Fowler, Calif.

Application February 28, 1949, Serial No. 78,730
9 Claims. (Cl. 242—55.5)



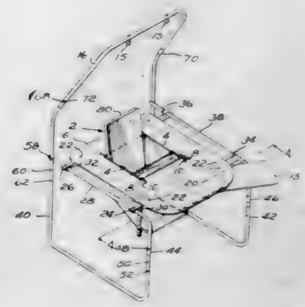
1. A toilet paper holder comprising a transverse back member adapted to be secured to a wall, side arms projecting forwardly from the ends of the back member, alined trunnions projecting inwardly from the side arms intermediate their ends, the side arms being capable of laterally outward springing to increase the normal spacing of the trunnions, lapping fingers projecting laterally inwardly from the forward ends of the side arms, and exposed grips on the fingers in normally spaced-apart relation.

2,533,019

COMBINATION BABY SWING AND TABLE ASSEMBLY

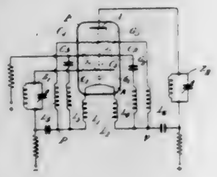
Bruce V. Ketcham, Manchester, Conn.

Application February 6, 1947, Serial No. 726,797
6 Claims. (Cl. 155—41)



2. In a combination baby swing and table, in combination, a frame structure, a seat, flexible means supporting said seat from said frame structure under a first condition of operation, and a table portion supported by said frame structure and movable into supporting relationship with respect to said seat under a second condition of operation.

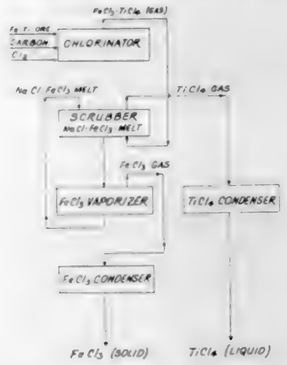
2,533,020
CIRCUIT ARRANGEMENT FOR AMPLIFYING ULTRA HIGH FREQUENCY ELECTRICAL OSCILLATIONS
Kornelis Swier Knol, Maximiliaan Julius Otto Strutt, and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 12, 1946, Serial No. 682,984
In the Netherlands April 21, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 21, 1963
7 Claims. (Cl. 179—171)



4. An arrangement for amplifying ultra-high frequencies comprising an electron discharge device having in successive arrangement a cathode, a grid, a first auxiliary grid, a second auxiliary grid and an anode, said cathode being provided with first and second supply leads electrically separated with respect to high frequencies, the interelectrode capacity between said cathode and grid constituting a first capacitance, the interelectrode capacity between said grid and said first auxiliary grid constituting a second capacitance, the interelectrode capacity between said grid and said second auxiliary grid constituting a third capacitance, an input impedance connected between said grid and said first lead, an output impedance connected between said anode and said second lead, a first conductor connected at one end to the junction of said first lead and input impedance and capacitively coupled at the other end to said first auxiliary grid, a second conductor connected at one end to the juncture of said second lead and output impedance and capacitively coupled at the other end to said first auxiliary grid, a third conductor connected between said junction and said second auxiliary grid, and a fourth conductor connected between said juncture and said second auxiliary grid.

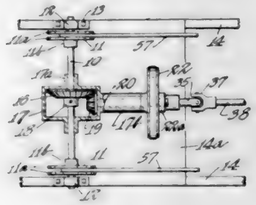
2,533,021
SEPARATING METAL HALIDE VAPORS
Ignace J. Krchma, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 13, 1948, Serial No. 8,303
9 Claims. (Cl. 183—115)

1. A method of separating the components of a vaporous mixture of normally solid and normally liquid metal halides which comprises scrubbing the hot vaporous mixture with a mixture of cooler molten metal halides mutually-soluble in each other, individually solid at ordinary temperatures, inert towards the vaporous mixture and at least one of which has the same chemical composition as the normally-solid metal halide in the mixture under treatment, and thereafter collecting the less volatile normally solid metal halides fraction in the molten metal halide mixture and



leaving the more volatile halides fraction as vapor.

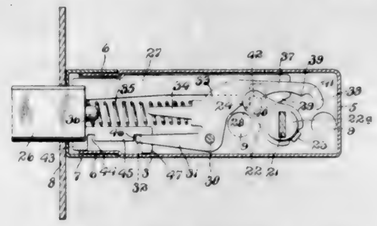
2,533,022
VEHICLE TAKE-OFF
Gerald L. Kuhl, Chester, Minn.
Application April 4, 1947, Serial No. 739,465
14 Claims. (Cl. 74—13)



7. A control mechanism for a hoist having in combination, a shaft, means for winding a cable driven by said shaft, a second shaft extending at an angle to said shaft, meshing gears respectively secured to and connecting said shafts, a gear casing enclosing said gears oscillatable on said first mentioned shaft and forming a bearing for said second shaft, a pulley secured to said first mentioned shaft, a second pulley below said pulley, a belt connecting said pulleys, means for driving said second pulley, and means actuated by the operator for swinging said first mentioned pulley and gear casing upwardly about the axis of said first mentioned shaft to tighten said belt and drive said first mentioned pulley.

2,533,023
NIGHT LATCH
Albert F. Licktelg, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application December 22, 1945, Serial No. 636,611
6 Claims. (Cl. 292—169)

5. A latch comprising a housing, a latch bolt slidable in said housing, manually operated means for retracting the latch bolt, a locking member within the housing having a portion movable into locking engagement with said bolt and movable into unlocked position by movement of said manual retracting means, and a single spring acting between said locking member and said latch bolt to extend the latch bolt



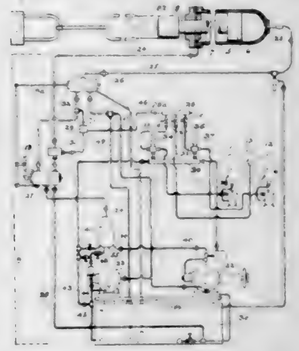
and to hold the locking member in locking position.

2,533,024
GAUGING INSTRUMENT FOR SETTING CUTTING TOOLS
Frank Lustrik, Cleveland, Ohio
Application April 18, 1946, Serial No. 663,170
2 Claims. (Cl. 33—185)

2. A gage for setting a boring bar cutter or the like of a machine tool comprising a base adapted for mounting on a frame portion of a machine tool, a first member extending from said base, a second member mounted on said first member for free axial reciprocation relative thereto, a calibrated micrometer screw barrel fixed on the end of said second member, a calibrated micrometer screw threaded in said barrel, said screw having a contact spindle that extends axially past the outermost extremity of said second member in the axis of said screw, a spring-biased dial-type indicator mounted on said first member having a contact piece, abutment means on said second member for engaging the contact piece of said indicator, and a main spring connected to said members and being of sufficient strength to cause relative extension of said members, said main spring being substantially stronger than the bias spring in the indicator, and means to limit the relative extension of said members under the force of said main spring.

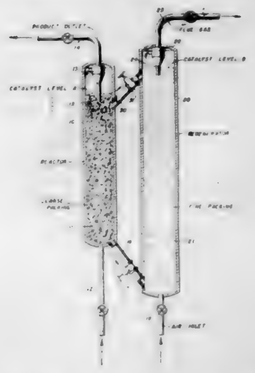
2,533,025
APPARATUS FOR APPLYING TENSION AND/OR PRESSURE TO MATERIAL
Charles C. Martin, Cleveland Heights, Ohio, assignor to The Cleveland Chain and Manufacturing Company, Garfield Heights, Ohio, a corporation of Ohio
Application July 19, 1945, Serial No. 605,864
7 Claims. (Cl. 73—97)

1. An apparatus of the character described having in combination a frame structure providing a tensile testing and elongating channelway, a fixed abutment at one end of said channelway, a movable abutment associated with a hydraulic cylinder at the other end of said channelway, a piston within said cylinder connected with said movable abutment, and fluid pressure means arranged to act on one side of said piston for moving said movable abutment away from said fixed abutment, said fluid pressure means consisting of a source of high pressure fluid supply, a source of low pressure fluid supply, means for combining the supplied high and low pressure fluids, a fluid passageway between said combining means and one



end of said cylinder for supplying the fluid thereto, the low pressure fluid serving to move the piston at high speed to the point of application of the high pressure fluid thereto, and a valve interposed in said passageway for controlling fluid flow therethrough.

2,533,026
PROCESS FOR CONTACTING SOLIDS AND GASES
George L. Matheson, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 22, 1946, Serial No. 692,348
9 Claims. (Cl. 196—52)

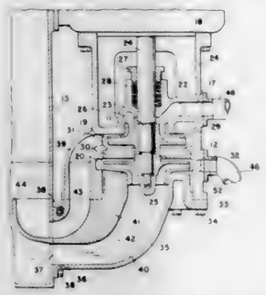


1. In a process in which finely divided solids are maintained in a fluidized state in treating zones by means of upflowing suspending fluids, the improvement which comprises maintaining relatively larger solid non-fluidized packing in said treating zones, the non-fluidized packing in one treating zone being characterized by being larger than the non-fluidized packing in the other treating zone, and causing the fluidized solids to flow from one zone to the other due to the difference in fluid head caused by the different size packing.

2,533,027
METHOD OF FORMING POROUS NODULES
Ernest J. Maust and Clinton A. Hollingsworth, Lakeland, Fla., assignors to Coronet Phosphate Company, New York, N. Y., a corporation of New York
No Drawing. Application April 26, 1946, Serial No. 665,348
4 Claims. (Cl. 71—44)

1. The method of imparting porosity to nodules of phosphatic materials suitable for subsequent defluorination which comprises nodulizing a mixture of the material and at least 10% by weight of a carbonaceous material from the class consisting of coal and coke, subjecting the resultant nodules to the action of water vapor at a temperature of at least 2000° F., the temperature being sufficiently high to bring about incipient sintering of the particles of phosphatic material which will bond them together and strengthen the nodules as the carbonaceous material is removed, but not so high as to cause fusion of the particles of phosphatic material, the amount of water vapor present during the reaction being sufficient to prevent reduction of phosphatic material by reaction with carbon, and continuing the treatment of the nodules with the water vapor at said temperature until substantially all of the carbon of the carbonaceous material is eliminated by reaction with the water vapor and evolution of the resulting gaseous products, whereby the nodules have a desired degree of porosity and sufficient strength to withstand subsequent calcination without disintegration.

2,533,028
PUMPING SYSTEM
James W. McConaghy, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application November 24, 1948, Serial No. 61,790
1 Claim. (Cl. 103—5)

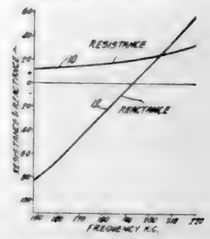


A pumping system comprising a high pressure pump, a low pressure pump superposed on the high pressure pump, a jet pump located adjacent the source of liquid to be pumped, a conduit for conveying the discharge of the high pressure pump to the jet pump to form the jet, a conduit for conveying the discharge of the jet pump to the intake of the low pressure pump, a tank having an inlet opening and an outlet opening, said outlet opening adjacent to and below the inlet opening, a conduit to convey the discharge from the low pressure pump to the inlet opening of the tank, a conduit to convey liquid from the outlet opening of the tank to the intake of the high pressure pump, and means in the tank adjacent the inlet opening to deflect the discharge of the low pressure pump away from the outlet opening.

2,533,029
ODOGRAPH
Alvin G. McNish, Chevy Chase, Md., and Bryant Tuckerman, Yellow Springs, Ohio, assignors to the United States of America as represented by the Secretary of War
Application June 12, 1944, Serial No. 539,940
7 Claims. (Cl. 346—108)

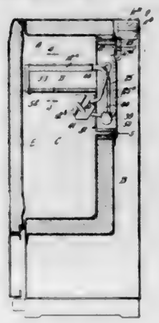
3. An apparatus for plotting the course and distance traveled by a moving vehicle comprising stylus-operating instrumentalities, an odometer shaft adapted to drive said stylus-operating instrumentalities at variable speeds, a pair of aligned step-gears interposed between said odometer shaft and said stylus-operating instrumentalities, pick-up means engaging the step-gears and operable to transmit motion from the latter to said stylus-operating instrumentalities, Scotch-yoke mechanism for moving said pick-up means parallel to the axis of the aligned step-gears and into positions which are operatively proportional to the sine or cosine of the angle of deviation of the moving vehicle from the compass heading, a compass, and light controlled means associated with said compass operable by the deviation of the moving vehicle from the compass heading for actuating the Scotch-yoke mechanism to effect the aforesaid displacement of said pick-up means.

2,533,030
WIDE BAND IMPEDANCE MATCHING NETWORK
Israel J. Melman, Jamaica, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 23, 1946, Serial No. 705,005
11 Claims. (Cl. 178—44)



1. A circuit arrangement for coupling a transmission line to a load including a reactance network comprising a series arm and a shunt arm of reactive circuit elements for matching impedances of said line and said load over a band of frequencies and a further network interposed in series circuit arrangement with the first said network and said load and comprising a series connected capacitor, inductor and resistor shunted by a further capacitor, the components of said further network having values at which the resistance characteristic curve with a variation in frequency exhibits a slope inverse to that of the difference between the reactance curves of said shunt capacitor and of said load.

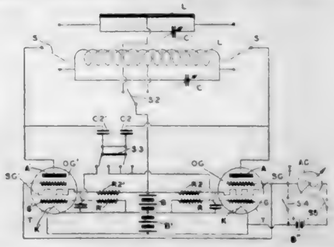
2,533,031
ABSORPTION REFRIGERATING SYSTEM OF THE UNIFORM PRESSURE TYPE
Charles A. Miller, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application December 8, 1947, Serial No. 790,367
8 Claims. (Cl. 62—119.5)



1. In a refrigerator, a refrigerator cabinet including a food storage compartment, a flue at the rear of said compartment and an insulated closure member therebetween, and a refrigerating apparatus for cooling said food storage compartment, said refrigerating apparatus including a condenser within said flue and having a refrigerant vapor inlet and a refrigerant vapor and liquid refrigerant outlet, a pressure vessel within said closure member, an evaporator within said food storage compartment and having a liquid refrigerant inlet, conduits interconnecting said elements for flow of liquid refrigerant from the condenser to the evaporator, refrigerant vapor from the condenser to the pressure vessel and liquid refrigerant from the pressure vessel to the evaporator, and means including a portion of said closure member for cooling said pressure vessel, said pressure vessel being positioned within said closure member at an elevation below the level of the vapor and liquid refrigerant outlet of said condenser and above the level of the liquid refrigerant inlet of said evaporator, whereby condensate formed in the pressure vessel flows therefrom into the evaporator.

2,533,032
ELECTRICAL ALTERNATING CURRENT GENERATION
Surrius Rector Montcalm, Boonton, N. J., assignor, by mesne assignments, to Ferris Instrument Laboratories, Boonton, N. J., a corporation of New Jersey
Application June 1, 1944, Serial No. 538,221
40 Claims. (Cl. 250—36)

21. In a system for generating high frequency electrical alternating currents: the combination of two substantially identical electron paths each having an electron source in spaced relation to an effective electron attracting positive potential anode plus two control grids interposed therebetween and a positive potential screening electrode interposed between said control grids; a source of negative potential for making each of said control grids nearer its said electron source negative to substantially the same extent; a source of direct current voltage for simultaneously impressing upon the other ones of said control grids any chosen degree and polarity of electrical direct current potential; a source of electrical alternating current for impressing upon said last named control grids any degree and



frequency of electrical alternating current potential; a circuit connected between said anodes including inductance and capacitance adapted to be tunable through a substantial range of high frequencies and substantially equal-in-value capacitances connected between each of said anodes and each of the corresponding control grids nearer their respective electron sources, which said circuit with its associated reactions alone determines the frequency of generation; the circuits between the grids nearer electron sources and the said sources per se containing no more than necessary to establish a like direct current potential on each of said grids.

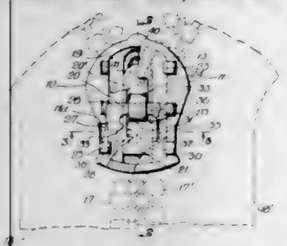
2,533,033
N⁴-SUCCINYLSULFANILAMIDODIAZINES
Maurice L. Moore, Nether Providence Township, Delaware County, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland
No Drawing. Application February 18, 1943, Serial No. 476,331
3 Claims. (Cl. 260—239.7)

1. A compound selected from the group consisting of 2-(N⁴-succinylsulfanilamido)-4-methyl-pyrimidine and 2-(N⁴-succinylsulfanilamido)-pyrazine.

2,533,034
AUTOMATIC LOCK SLIDER
Louis H. Morin, Bronx, N. Y.
Application April 24, 1946, Serial No. 664,585
7 Claims. (Cl. 24—205.14)

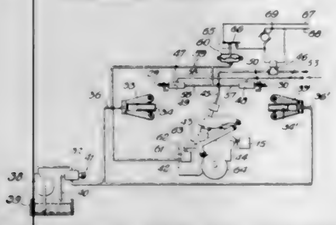
1. A lock slider for separable fastener stringers, said slider comprising a body having flanged walls joined and spaced at one end by a connecting web, the flanged walls of the slider forming a channel for reception of scoops of separable fastener stringers in coupling and uncoupling the same by movement of the slider longitudinally of the stringers, a lock member mounted in one wall of the slider and movable in its entirety transversely of said wall, said member having a non-bevelled non-ratcheting lug adapted to project into the channel of the slider between scoops of one stringer in retaining the slider against movement on the stringers, tensional means supporting the lock member in op-

erative position, means comprising a slide member movable longitudinally of said wall of the slider and operatively engaging said lock member to move the same into inoperative position in movement of said slide member in the direction of either end of said slider, said slide member



having a shorter length than said wall of the slider and being movable within the end boundaries of said wall, and the operative engagement between said lock and slide members comprising a pin on one of said members operating in a recess in the other of said members, said recess being defined by cam walls.

2,533,035
PNEUMATIC SAFETY STOP FOR DIE CLOSURES
Louis H. Morin, Bronx, N. Y.
Application June 10, 1947, Serial No. 753,674
3 Claims. (Cl. 22—92)



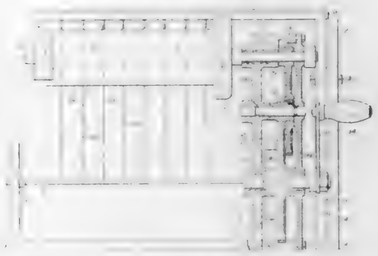
1. In a pneumatic safety stop mechanism for stopping the operation of a die-casting machine upon failure of either one of a pair of movable dies in said machine to complete its closing movement, said dies being slidably supported in guides on the frame of the machine and being movable toward and away from each other, the combination of a switch controlling the operation of the machine, and operated by a pneumatic means a pneumatic control valve supported in a fixed position on each of the guides, said control valves normally being open and having an outlet port connected to the pneumatic operating means of the switch and an inlet port connected to means for intermittently supplying air under pressure from a common source to each of said valves, and valve-operating means carried by each of the movable dies, each of said valve-operating means carried by the respective dies engaging with and closing one of said control valves upon movement of its respective die to closed position.

2,533,036
MASSAGE MITTEN
Irene Moscowitz, Los Angeles, Calif.
Application March 15, 1949, Serial No. 81,445
1 Claim. (Cl. 128—62)

A woven massage mitten formed entirely from a coarse fibrous cordage, said mitten having longitudinal ridges throughout its length, said ridges comprising a plurality of straight longitudinal strands and a plurality of curved transverse strands looped about the straight longitudinal

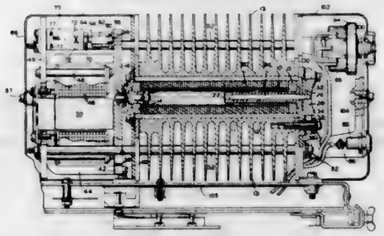
strands and one another, said transverse strands having adjacent convolutions thereof at acute angles to each other thereby forming continuous zig zag body-engaging surfaces on the outer sides of the ridges.

2,533,037
APPARATUS FOR WINDING YARNS ON CARDS
Mario Nava, Macclesfield, England
Application December 19, 1947, Serial No. 792,770
In Great Britain July 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 21, 1964
1 Claim. (Cl. 242—50)



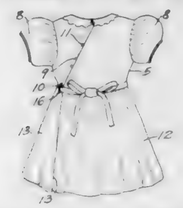
Apparatus for winding a plurality of equal lengths of thread side by side on a flat card comprising a base, vertical pins on said base for supporting packages of thread, vertical supports for guide and tension rods for the threads, adjustable guide and tension rods mounted in said vertical supports, guide eyes on said supports spaced apart at fixed distances, vertical supporting plates for the winding mechanism, said winding mechanism comprising a spindle, securing means at one end of said spindle for a rectangular plate, a rectangular plate mounted in the centre of one end on said securing means, the centre line of said plate being axially aligned with said spindle, said securing means having a slot for receiving one end of a flat card mounted on said plate, securing means at the other end for detachably holding said flat card on said plate, a pinion on said spindle, a gear wheel meshing with said pinion, a pinion compounded with said gear wheel and both mounted on a detachable spindle, a gear wheel in mesh with said compounded pinion, manually operable means for rotating said last gear wheel, a flange on said gear wheel, said flange having a gap therein, and a spring actuated strip resting on said flange and engaging said gap at each rotation movement until manually released.

2,533,038
CARBON PILE REGULATOR
William G. Neild, Warren Point, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application April 1, 1948, Serial No. 18,433
6 Claims. (Cl. 201—51)



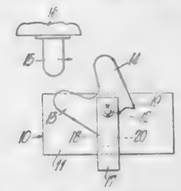
1. In an electrical regulator of the type including a variable electrical resistance means, an electromagnet, an armature movably mounted in relation to said electromagnet, means connecting the armature to the variable electrical resistance means, said electromagnet biasing said armature in a direction for changing the electrical resistance of said variable electrical resistance means; the improvement comprising a spring mechanism including a supporting member, a movable member operatively connected to said armature and extending at a substantially ninety degree angle to said supporting member, curved spring blades connected at opposite ends to said members and arranged so that upon movement of said armature toward said electromagnet said curved spring blades wrap upon said supporting member and said movable member so as to decrease the radius of the curved blades and progressively increase the resistance of the spring blades to displacement of said armature by said electromagnet, said movable member including a pair of leg portions and a wedge-like screw member for adjusting said leg portions to vary the force characteristic of the spring blades.

2,533,039
GARMENT
Abraham Peitzman, Philadelphia, Pa., and Ralph M. Peitzman, Trenton, N. J.
Application June 12, 1946, Serial No. 676,144
2 Claims. (Cl. 2—75)



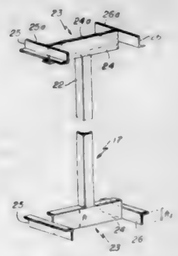
1. A wrap-around garment comprising a one-piece structure combining waist and skirt portions joined together at a belt line, said waist portion having arm and neck openings and having a pair of terminal edge portions in the rear thereof extending diagonally from the rear of the neck opening at the top of the waist to one side of the waist at the lower end thereof at the belt line, said edge portions uniformly overlapping each other sufficiently to be fastened together to form a rear diagonally extending closure for said waist, said skirt portion having vertically extending overlapping edge areas extending from the belt line to the bottom of the skirt in continuation respectively of the waist overlapping edges and tapes secured to the garment at the belt line to encircle the rear thereof and to maintain the skirt in overlapped relation and to maintain the garment in place with the front portion of the dress belt line smooth and flat on the person of the wearer regardless of the length of the remaining portion of the belt-line.

2,533,040
LIMIT SWITCH WITH PENDULUM ARRESTER
Lawrence B. Petrak, Ellwood City, Pa.
Application May 12, 1948, Serial No. 26,645
2 Claims. (Cl. 200—47)



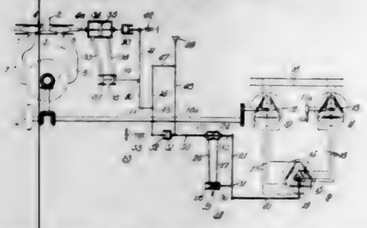
1. In a limit switch, a housing, a rock shaft journaled therein, and a sector plate secured on said shaft having angularly disposed levers upstanding therefrom, said plate being tiltable between two extreme positions, the combination therewith of a pendulum pivoted on said shaft and a pair of projections extending downwardly from said plate adapted alternately to engage said pendulum and tilt it from its normal position on tilting of said plate from one extreme position to the other.

2,533,041
INTERNAL BRACING FOR LIQUID STORAGE TANKS
Fred L. Plummer, Warren, Pa., assignor to Hammond Iron Works, Warren, Pa., a corporation of Pennsylvania
Application September 27, 1946, Serial No. 699,731
1 Claim. (Cl. 220—71)



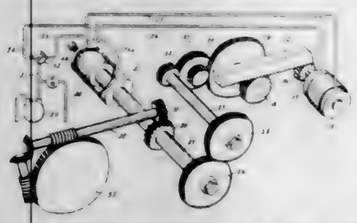
In a tank for the storage of liquids having top, side and end walls, internal bracing means extending between and interconnecting two of said walls comprising a load-distributing H-shaped base member welded to each wall, the H-shape of said base member comprising component portions in the form of angle irons and disposed for edgewise contact of the one shank of said angle irons with the wall and thus presenting an H-shaped contact edge welded to the wall, and a bracing member having welded connection with the central portion of said H-shape.

2,533,042
POWER-DRIVEN ALIGNING MECHANISM CONTROL SYSTEM DEPENDENT UPON A TIME DERIVATIVE OF THE DISPLACEMENT
Reginald Alexander Polson, Flixton, Manchester, and Cecil Dannatt, Hale, England, assignors to Metropolitan-Vickers Electrical Company Limited, London, England, a company of Great Britain
Application August 11, 1945, Serial No. 610,354
In Great Britain April 7, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 7, 1962
6 Claims. (Cl. 121—41)



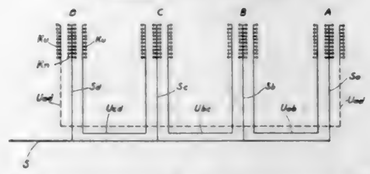
1. In a positional control system for maintaining a heavy movable object in predetermined positional correspondence with the position of a capriciously and easily movable directing member, the combination including said directing member, said movable object, a variable velocity motive equipment for driving said movable object, displaceable control member operatively connected to said motive equipment so that the output velocity of said motive equipment varies in dependence upon the position of said control member, and mechanism for transmitting to said control member a displacement depending upon the misalignment that may exist between said movable object and said directing member, said mechanism including a damping device which experiences said displacement and which is actuated to a degree depending upon the speed of said displacement and a secondary motion transmission means connecting said damping device to said control member for transmitting movements to said control member according to the degree of actuation of said damping device, whereby said control member is subject not only to said displacement but also to a movement depending upon the first time derivative of said displacement.

2,533,043
BACKLASH ELIMINATING MECHANISM
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application December 8, 1948, Serial No. 64,175
9 Claims. (Cl. 74—409)



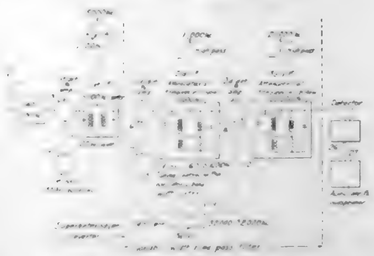
1. In a grinding machine, a traverse mechanism, a hydraulic motor for driving said traverse mechanism, a crowning mechanism, gearing connecting said traverse mechanism and said crowning mechanism including transverse shafts, one of which drives said second mechanism, a helical gear on each of said shafts and means for starting said traverse mechanism and said second mechanism simultaneously after each reversal thereof, which consists in means for effecting axial movement of one of said helical gears in a direction corresponding to the direction of said traverse movement.

2,533,044
CABLE DISTRIBUTION SYSTEM
John Adam David Yngve Rapp, Stockholm, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application May 24, 1948, Serial No. 28,893
In Sweden June 5, 1947
2 Claims. (Cl. 179—98)



1. An arrangement for the increased utilization of a network of the telephone type comprising in combination, an exchange feeding point, a cable extending from said exchange feeding point, a plurality of geographically bordering spreading points, subscriber lines for connection to said cable through said spreading points, a branch extending from said cable to each spreading point and comprising a predetermined number of pairs to include a number of spares for future subscribers, and equalization lines extending from each spreading point to other spreading points and containing pairs for making use of spares of a spreading point adjacent one where none remains available.

2,533,045
SUPERHETERODYNE RADIO RECEIVER
John D. Reid, Mount Healthy, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation, a corporation of Delaware
Application March 16, 1945, Serial No. 583,153
3 Claims. (Cl. 250—20)



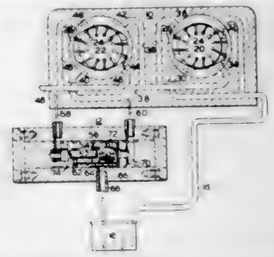
3. A signal translating circuit having an adjustable over-all band width comprising a first frequency-changing circuit including a tunable source of oscillations for converting modulated carrier signals into first intermediate frequency signals with inverted side bands, said intermediate frequency being higher than the carrier frequency of said modulated carrier signals, a sharp cutoff high-pass selective circuit coupled to said first frequency-changing circuit, the frequency limit of said selective circuit being equal to a predetermined intermediate frequency whereby said selective circuit rejects an increasing portion of one side band of said modulated carrier signals when said tunable source is tuned to cause said intermediate frequency signals to approach said predetermined frequency, a second frequency changing circuit, including a second tunable source of oscillations for generating oscillations which are second harmonically related to those generated by the first-mentioned source, for converting said first intermediate frequency signals into second intermediate frequency signals with reinverted sidebands, the last-named signals having a higher frequency than said carrier signals, another sharp cutoff high-pass selective circuit coupled to said second frequency-changing circuit, the frequency limit of said other selective circuit being equal to a second predetermined intermediate frequency, whereby said other selective circuit rejects an increasing portion of the other side band of said carrier signals when said first tunable source is tuned to cause said second intermediate frequency signals to approach said second predetermined frequency, both of said selective circuits and both of said frequency-changing circuits cooperating to contract the over-all band pass of the signal translating circuit in response to decreasing output-signal frequencies of said sources.

2,533,046
CONSTANT LEVERAGE ENGINE
Jacob Riederer, Stowe, Vt.
Application September 17, 1949, Serial No. 116,288
8 Claims. (Cl. 74—44)

1. A reciprocating engine comprising a cylinder block having a cylinder opening therein, a crank case supporting said cylinder block, a drive shaft extending through the crank case, a gear fixed to said drive shaft, a piston operable in said cylinder opening, an operating gear engaging with the gear on said shaft, said operating gear having straight sides and rounded ends, a connecting rod pivotally connected to the piston at one end and to the operating gear at the other end centrally of the operating gear and means for slidably connecting the operating gear to the cylinder block for rotational movement with respect thereto.

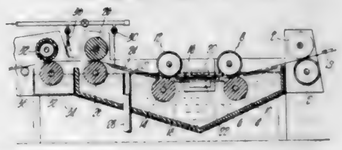
2,533,047
POWER TRANSMISSION
James Robinson, Huntington Woods, and Clifford V. Losey, Ferndale, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application August 14, 1946, Serial No. 690,490
17 Claims. (Cl. 103—11)

1. A pressure dividing valve for maintaining the pressure in a chamber at a fixed relative proportion of a supplied pressure comprising a cylinder with a differential piston valve reciprocably mounted therein, the relative differential areas of the piston being in inverse proportion to the pressures to be maintained in the chamber relative to the supply pressure, and means controlled



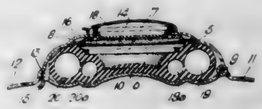
by the movement of the pressure actuated piston valve for relieving the pressure in the chamber when it exceeds its relative proportion of the supply pressure or bleeding supply pressure fluid into the chamber when the chamber pressure is below its relative pressure.

2,533,048
PROCESS OF HOT DIP TINNING
Howard C. Rodgers, Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company, a corporation of Alabama
Application July 30, 1947, Serial No. 764,720
5 Claims. (Cl. 117—52)



1. The process of hot dip tinning of ferrous metal sheets which comprises passing the sheets through a pickling solution having a pickling inhibitor therein, removing the sheets in a wetted condition from the solution with pickling solution and inhibitor thereon, passing the wetted sheets with inhibitor thereon through tinning flux floating on the tin directly into the tin, and applying tin to the sheets.

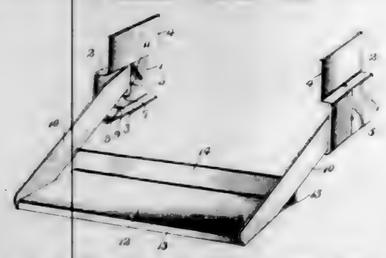
2,533,049
VANITY BOX
Menachem Yehuda Rosenfeld, London, England
Application April 21, 1947, Serial No. 742,764
In Great Britain March 22, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 22, 1966
1 Claim. (Cl. 132—79)



A vanity box of the class described comprising a frame member, a single block of material clamped to said frame member and provided with spaced cylindrical compartments for various cosmetics and toilet articles, bands hinged to said frame member to form a bracelet, a lid for the

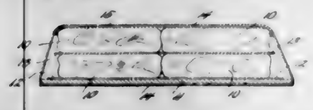
upper surface of said block, said lid hinged to one of the bands' hinges, and a spring clip carried by said lid for engaging the hinge of the opposite band.

2,533,050
TRAILER STEP
David Runyen, Grand Rapids, Mich.
Application August 24, 1949, Serial No. 112,024
9 Claims. (Cl. 280—166)



1. A trailer step structure comprising, two brackets adapted to be secured spaced from each other at the under side of a trailer, each bracket being of channel form in cross section having upper and lower horizontal flanges and a vertical web connecting the flanges, a guide having a vertical portion secured at its upper end to each of said upper flanges and extending downwardly therefrom toward the lower flange, having a horizontal outwardly extending section at its lower end permanently secured to said web a distance above the lower flange, an arm slidably mounted over said horizontal section of the guide and between each web and the vertical section of the guide, stop means at the inner end of each arm extending therefrom to come against the vertical portion of its associated guide when said arms are extended outwardly, and a step tread extending between outer ends of said arms permanently secured thereto.

2,533,051
MEAT PACKAGE AND METHOD OF MAKING THE SAME
Justus G. Saunders, Silver Spring, Md.
Application August 16, 1950, Serial No. 179,814
16 Claims. (Cl. 99—174)



1. A meat package comprising a plate of aluminum, a slab of meat supported thereon, and wrapping means for said plate and slab.

2,533,052
PRODUCTION OF HALOGENATED HYDROCARBONS
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 31, 1945, Serial No. 625,950
17 Claims. (Cl. 260—648)

1. A process which comprises reacting a monohalogenated saturated hydrocarbon having at least 3 carbon atoms per molecule with a monoolefinic compound selected from the group consisting of a mono-olefin hydrocarbon and a halomono-olefin in the presence of a boron trifluoride catalyst at a temperature of from about −10° C. to about 100° C. and a pressure sufficient to maintain a substantial proportion of the reactants in liquid state, whereby to produce a higher boiling halogenated saturated hydrocarbon having a molecular weight equal to the sum of the molecular weights of the reactants and recovering said higher boiling halogenated saturated hydrocarbon.

2,533,053
PRODUCTION OF MONOHALOALKANES
Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 28, 1946, Serial No. 700,176
17 Claims. (Cl. 260—658)

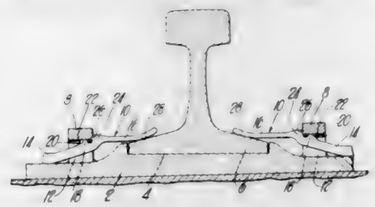
1. A process which comprises reacting a monohaloalkane having at least three carbon atoms per molecule and a halogen of at least 35 atomic weight with an aliphatic monoolefin in which at least one hydrogen atom is combined with each of the carbon atoms joined by the double bond in the presence of a Friedel-Crafts metal halide catalyst at a temperature such that the principal reaction of the process is the formation of a monohaloalkane having a molecular weight equal to the sum of the molecular weights of the reacting monohaloalkane and monoolefin.

2,533,054
AERIAL SYSTEM
Jan Karel Schouten, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 12, 1946, Serial No. 682,993
In the Netherlands June 21, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 21, 1963
8 Claims. (Cl. 250—33.59)

4. A broad band high-frequency aerial system comprising at least two like dipoles each having a length corresponding to half the resonance wavelength of said dipoles, said dipoles being disposed in parallel relation, means to excite said dipoles with the same intensity and in phase coincidence, the distance between said dipoles being substantially equal to 0.135 of the resonance wavelength.

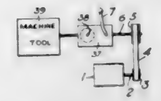
2,533,055
RAIL FASTENING DEVICE
Arthur R. Schulze, Johnstown, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application June 5, 1947, Serial No. 752,776
1 Claim. (Cl. 238—349)

A rail fastening device comprising a tie plate having a seat portion for the base of the rail, an inverted U-shaped member secured to said tie plate at a point intermediate the seat portion and the edge of the plate, an elongated spring clip passing through said inverted U-shaped member and bearing against the underside thereof, one end of said clip bearing against the top of the rail flange and the other end bearing against the top of the tie plate, and a shoulder on the top part of said clip bearing against the inner part of the inverted U-shaped member to prevent outer movement thereof, the end of the clip between the top of the tie plate and the inverted U-shaped member being relatively thick



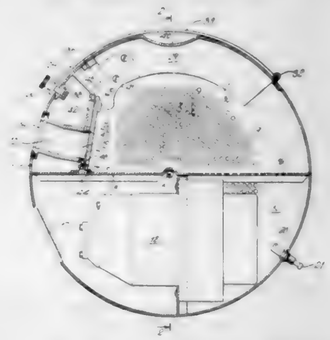
and rigid and the other end of the clip being relatively thin and flexible, the length of the clip between its bearing point on the top of the tie plate and its bearing point on said member being less than the length of the clip from the bearing point on said member to the point that it bears on the rail flange.

2,533,056
CHANGE-SPEED GEAR
James Selby, Middlesex, England, assignor to Victoria Machine Tool Company Limited, London, England, a British company
Application December 30, 1947, Serial No. 794,553
In Great Britain June 13, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 13, 1965
4 Claims. (Cl. 74—740)



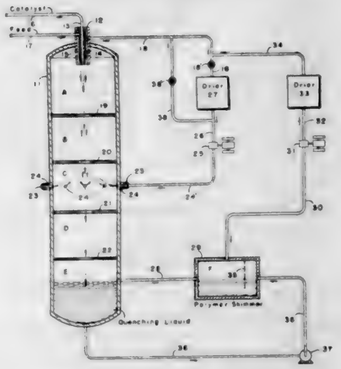
1. In a change speed transmission, the combination including, a prime mover, a driven device, a change speed gearing, and a transmission mechanism, said prime mover being adapted to drive said driven device through said transmission mechanism and said change speed gearing in that order, said transmission mechanism comprising driving and driven elements rotatable about a common axis, a pair of coaxial planet pinions having different diameters and constrained to rotate as one piece, said pinions being rotatably mounted on said driving element with their axis parallel to and at a given radius from the axis of said elements, a sun pinion fast on said driven element and in mesh with one of said planet pinion, a sun pinion rotatable about the axis of said elements and in mesh with the other planet pinion, and means whereby said last named sun pinion is adapted alternatively to be coupled either fast to one of said elements whereby the transmission ratio from said driving to said driven element is unity or fast to a fixed part whereby the transmission ratio from said driving to said driven element is greatly reduced, a member movable to effect any of a plurality of gear changes of said change speed gearing and means whereby in response to the movement of said member to effect any of such changes, said last named sun pinion is uncoupled from said one of said elements and is coupled fast to said fixed part.

2,533,057
FILTER REPLACEMENT CONSTRUCTION FOR VACUUM CLEANERS
Edgar P. Senné, Rockville Centre, N. Y.
Application February 18, 1948, Serial No. 9,047
2 Claims. (Cl. 183—43)



1. A vacuum cleaner comprising a chassis and a mechanism adapted for the insertion and removal of a filter bag within and from said chassis comprising a door within the outer wall of said chassis adapted to be rotated outwardly from the body of said chassis, a vise mechanism for holding said filter bag within said chassis comprising a first member fixed with respect to said chassis and a second member hinged for rotation with respect to said first member, said members being adapted to receive therebetween a holding collar of a filter bag, and means affixed to said door and engaging said second member when said door is in its closed position for firmly forcing said second member against said first member whereby said collar may be secured therebetween.

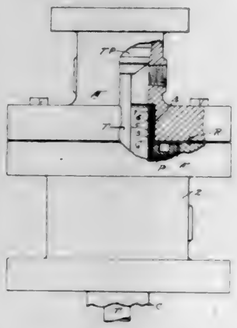
2,533,058
METHOD FOR POLYMERIZING OLEFINS
Sherman S. Shaffer, Baytown, and Bradshaw F. Armendt, Pelly, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
Application November 23, 1944, Serial No. 564,810
9 Claims. (Cl. 260—85.3)



1. A method of polymerizing olefins comprising the steps of admixing a chilled liquid stream including Friedel-Crafts metallic halide catalyst

and a chilled liquid stream including olefin to form a resultant stream under conditions to cause the formation of polymer, passing the resultant stream of reactants through a first zone to form polymer in said first stream while in said zone, forming a concentric stream of gas moving in the same direction and at approximately the same velocity as the liquid stream around the liquid stream of reactants immediately upon the formation of said stream, passing the stream of liquid reactants and the concentric stream of gas into a second zone maintained at a pressure substantially below the pressure of the first zone, removing a major portion of the concentric gaseous stream in said second zone, passing the liquid reactants and the remaining gases into a third zone maintained at a pressure below the second zone, and quenching the reactants in the third zone.

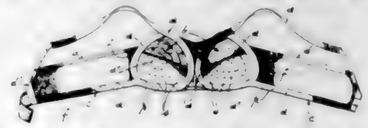
2,533,059
PROTECTING PACKER FOR CASING HEADS
Donald U. Shaffer, Brea, Calif., assignor to Shaffer Tool Works, a corporation of California
Application March 6, 1948, Serial No. 13,496
2 Claims. (Cl. 166—14)



1. A casing head having a main body and a cap with coaxial bores, the cap being superposed upon said body and having a counter bore in its lower end in which there is seated an annular packing assembly to surround an intruded, coaxial casing and seal between the casing and the wall of the counter bore, a metallic packing ring clinched between said body and said cap outwardly of and concentric to the body bore, and a rigid annular follower collar screwed in the bore in said body inwardly of said ring; said assembly including a bottom band seating on said collar whereby when the cap is clamped on said ring the said packing assembly is expanded and compacted in the counterbore to protect said ring.

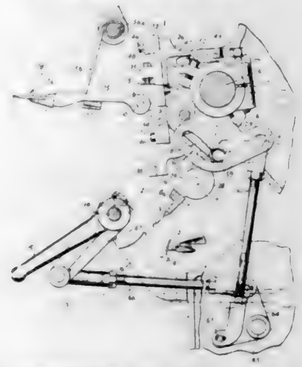
2,533,060
BRASSIÈRE
André Silvain, Roubaix, France
Application April 16, 1947, Serial No. 741,816
In France November 26, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 26, 1962
2 Claims. (Cl. 2—42)

1. In a brassière a breast supporting unit comprising in combination a breast pocket; a knitted binding band having a certain limited stretchability in longitudinal direction of said band; and extensible stitches extensibly securing said binding band along the edge of said breast pocket



circumferentially encircling at least part of said breast pocket.

2,533,061
WARP KNITTING MACHINE
Fred Charles Sorton, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application April 13, 1948, Serial No. 20,723
8 Claims. (Cl. 66—86)



1. In a warp knitting machine having knitting mechanism including needles, yarn guides to feed yarns to said needles, a guide bar on which said yarn guides are mounted, and a rock shaft carrying said guide bar, characterized by the fact that said guide bar is hinged to the rock shaft on an axis substantially parallel to the axis of the rock shaft, for swinging movement to a threading position remote from the needles, and a holder is provided to hold said guide bar in said remote threading position

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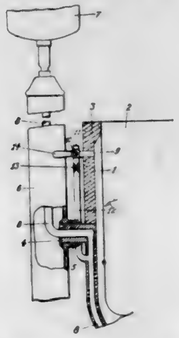
2,533,062
STAPLE NAIL
Edward J. Spink, Council Bluffs, Iowa
Application December 20, 1948, Serial No. 66,361
1 Claim. (Cl. 85—49)

In a barbed nail, the combination which comprises an elongated cylindrical shank having a point on one end, said shank having a tapering section with flat sides leading to the point, a head on the shank positioned on the end opposite to that on which the point is positioned, said head comprising a flat section rectangular-shape

in cross section positioned perpendicular to the shank and extended from one side thereof, said head extended in a plane parallel to planes through two opposite flat sides of the point whereby with the said flat sides of the point vertically positioned the head is retained in an upwardly extended position, the width of the said flat section of the head being greater than the diameter of the shank and the peripheral surface of the shank being blended into the under surface of the flat section of the head with arcuate surfaces, a tang parallel to and extended in the same direction as the point of the shank carried by the outer extended end of the flat section of the head and the inner surface thereof blended into the under surface of the flat section with an arcuate surface, and a dome-shaped hammer blow absorbing protrusion positioned on the outer surface of the flat section of the head and aligned with the said shank, said flat section of the head also having a reinforcing lug portion on the outer surface connecting the dome-shaped protrusion to a smaller similar protrusion thereon and aligned with the said tang.

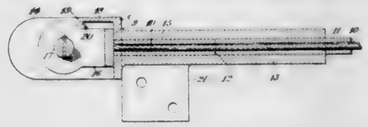
2,533,063
ELECTRIC STEAM HEATING DEVICE
Carl August Steen, Getinge, Sweden
Application March 14, 1947, Serial No. 734,813
In Sweden August 23, 1943
6 Claims. (Cl. 219—40)



1. In an electric steam heating device, a steam generator comprising walls forming a container to be heated by steam, walls forming a jacket for said container and providing, together with a wall of the container, a water space and a steam space, the wall of the container which partly serves for providing the steam space being a heat transmitting wall, electrodes in said water space for current passing through the water, an expansion vessel located above said container communicating by an ascending pipe with the lowest portion of said water space and by an opening with the open air, and a connection pipe between the upper part of said steam space and said ascending pipe.

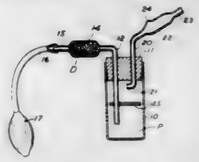
2,533,064
ANCHORAGE FOR CABLES
William James Streader, Portslade, England, assignor to Albert E. Tate, Portslade, England
Application August 29, 1947, Serial No. 771,287
In Great Britain September 5, 1946
1 Claim. (Cl. 24—123)

In an anchorage for a cable having a core and a surrounding sheath from which the end of said core projects, which anchorage comprises a sleeve adapted to encircle and grip the end of the cable core and having an external diameter substantially the same as the external diameter of the sheath, said sleeve having at one end thereof an inner fork the limbs of which are outstanding beyond the outside diameter of the sleeve thereby providing shoulders, a second sleeve adapted to encircle and grip the first mentioned sheath and provided with an outer fork the limbs of which lie flat against the limbs of the inner fork and the bottom of which abuts said shoulders of the inner fork, which two pairs of limbs on the two forks have registering holes,



and a pin extending through said holes and adapted to engage a support which maintains the pin substantially horizontal; a web portion extending between the upper margins of the limbs of the outer fork and over the junction between the bottom of the outer fork and the shoulders of the inner fork, the top surface of said web portion being flush with the outer edges of the limbs of the outer fork and terminating short of projecting over said pin, and being provided on its underside at its edge portion nearer said pin with a drip-sill which is a downwardly extending ridge which is V-shaped when viewed in cross-sectional elevation, whereby said junction is shielded from moisture.

2,533,065
MICROPULVERIZED THERAPEUTIC AGENTS
George V. Taplin and Frederick A. Bryan, Brighton, N. Y.
Application March 8, 1947, Serial No. 733,280
5 Claims. (Cl. 167—65)

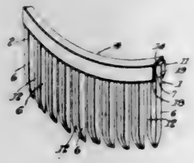


1. A therapeutic agent for direct administration to humans by inhalation comprising dry, micropulverized, powdered penicillin having a particulate size in the order of one micron.

2,533,066
MICROPULVERIZED THERAPEUTIC COMPOSITIONS
George V. Taplin and Frederick A. Bryan, Brighton, N. Y.
No Drawing. Application March 27, 1947, Serial No. 737,724
4 Claims. (Cl. 167—65)

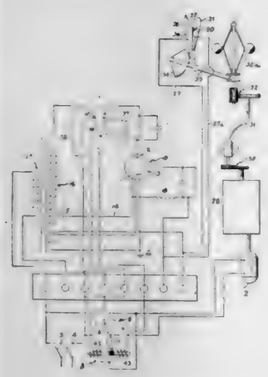
1. A therapeutic agent for direct administration to humans by inhalation comprising a dry, micropulverized, powdered mixture of an antihistaminic chemical blocker and a soluble antibiotic substance from the group consisting of penicillin and streptomycin, said mixture having a particulate size in the order of one micron.

2,533,067
TEETH-LOCKING COMB
Jack Taren and Aaron Leon, Los Angeles, Calif.
Application May 18, 1948, Serial No. 27,624
3 Claims. (Cl. 132—23)



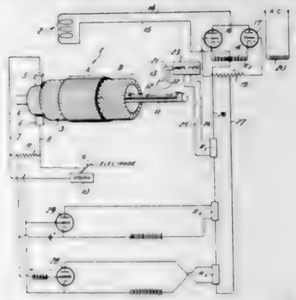
1. A comb comprising a fixed comb member formed with a channel back and fixed pointed teeth depending from said back, a slidable comb member formed with a back slidably fitted in said channel back, and with pointed clamp teeth depending from said slidable back between said fixed teeth, a spring interposed between said fixed comb member and said slidable comb member for normally holding said slidable member in position with one side of its clamp teeth against the adjacent side of said fixed teeth of said fixed comb member and with the forward end of said slidable back projecting beyond the forward end of said channel back to be pressed to space said clamp teeth from said fixed teeth.

2,533,068
INDICATOR AND CONTROL DEVICE
Charles F. Thiele, Old Greenwich, Conn.
Application February 28, 1947, Serial No. 731,449
11 Claims. (Cl. 318—325)



1. A control device of the character described comprising a movable member, means responsive to a variable for shifting said member, a normally stationary member including a stop means, a movable contact, resilient means for retaining said contact against the stop means, a contact stop on the movable member adapted to engage the movable contact and shift it away from the first stop while maintaining contact between the contact stop and the movable contact as the movable member passes by the stationary member, and means for connecting an electric circuit with the movable member and movable contact to be controlled thereby.

2,533,069
ELECTRIC ARC WELDING
Joseph M. Tyrner, New York, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application April 30, 1946, Serial No. 665,926
7 Claims. (Cl. 322—17)

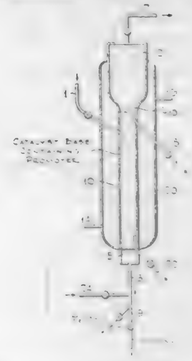


1. A dynamo-electric machine for use in a welding apparatus comprising a main armature winding, a field winding for controlling the amount of current supplied by said machine, means for supplying excitation current to the field winding, means inductively related to the armature winding and operatively connected to the means for supplying excitation current to the field winding to cause the excitation current to change in inverse ratio to the armature current, whereby the current supplied to the load is maintained substantially constant throughout a predetermined range of voltage supplied to the load, the means inductively related to the armature winding comprising an auxiliary armature winding mounted on the armature for rotation therewith and responsive to the armature reaction flux of the machine and a stationary coil inductively related to said auxiliary armature winding.

2,533,070
CARTON
Walter J. Tyrseck, Montville, Conn., assignor to Robertson Paper Box Company Incorporated, Montville, Conn., a corporation of Connecticut
Application October 26, 1949, Serial No. 123,766
10 Claims. (Cl. 229—14)

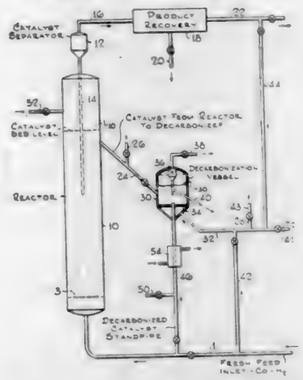
1. A shock-proof box formed of a single blank, comprising a plurality of aligned successive panels folded around each other in one direction only and forming an inner sleeve and an outer sleeve surrounding the same, the inner sleeve including four successive panels forming a rectangular structure and a fifth panel connected to the fourth such panel and overlying the inner surface of the first such panel, the said fifth inner sleeve panel having a projection extending outwardly from its fold line to engage the outer sleeve and having its edge substantially in engagement with the second inner sleeve panel, for maintaining the fold line between the fourth inner sleeve panel and the said fifth inner sleeve panel in position widthwise of the first inner sleeve panel.

2,533,071
SYNTHESIS OF HYDROCARBONS IN THE PRESENCE OF AN IRON TYPE CATALYST
Hans G. Vesterdal, Elizabeth, N. J., and Harry J. Sykes, El Rosal, Venezuela, assignors to Standard Oil Development Company, a corporation of Delaware
Application October 1, 1947, Serial No. 777,308
3 Claims. (Cl. 260—449.6)



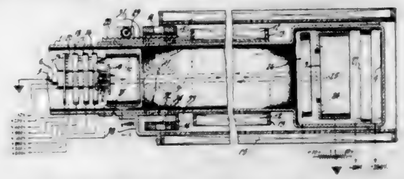
1. An improved process for producing valuable conversion products from CO and H_2 in the presence of iron base catalysts which comprises contacting CO and H_2 in synthesis proportions and at synthesis conditions including temperatures of about 550°–750° F., pressures of about 200–650 lbs. per sq. in., and H_2: CO feed ratios of about 0.8–3:1 adapted to the formation of normally liquid hydrocarbons with a catalyst consisting essentially of about 0.2–1% of carbonyl iron supported on subdivided zinc-alumina spinel containing about 0.5–10% of potassium carbonate.

2,533,072
HYDROCARBON SYNTHESIS
Alexis Voorhies, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 5, 1947, Serial No. 752,801
4 Claims. (Cl. 260—449.6)



1. In the production of synthetic products including normally liquid hydrocarbons and oxygenated compounds by the conversion of a synthesis gas containing carbon monoxide and hydrogen in synthesis proportions at synthesis conditions of temperature and pressure in the presence of a synthesis catalyst having a strong carbonization tendency at the synthesis conditions, the steps of contacting said synthesis gas in a synthesis zone with a dense, turbulent, fluidized mass of finely divided iron base catalyst at a synthesis temperature of about 600° to 750° F., a pressure of about 250 to 750 p. s. i. g., and a fresh synthesis gas feed rate of about 5 to 100 cu. ft. per hour per pound of catalyst so as to convert the carbon monoxide content of said synthesis gas to at least 98%, withdrawing a gasiform mixture of reaction products and unconverted hydrogen, separating said mixture into desired products and a tail gas rich in hydrogen but substantially free of carbon monoxide, passing finely divided carbonized catalyst containing fixed carbon from said synthesis zone to a decarbonization zone, maintaining said withdrawn catalyst in said decarbonization zone in the form of a dense, turbulent, fluidized mass of solids, contacting at least a substantial portion of said tail gas with said catalyst in said decarbonization zone at a decarbonization temperature of about 1000° to 1200° F. in proportions and for a time sufficient substantially to decarbonize said carbonized catalyst by removing fixed carbon, adding synthesis gas to said decarbonization zone in amounts sufficient but not exceeding that required to generate the heat required for maintaining said decarbonization temperature by an exothermic reaction of carbon monoxide with hydrogen within said decarbonization zone, and passing finely divided decarbonized catalyst from said decarbonization zone to said synthesis zone.

2,533,073
CATHODE BEAM TUBE
Paul K. Weimer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 28, 1945, Serial No. 631,440
2 Claims. (Cl. 250—156)

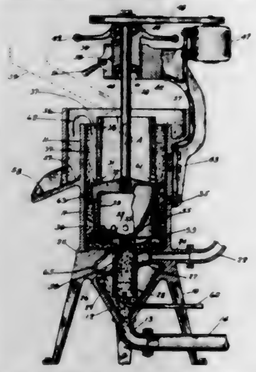


1. A cathode ray beam tube of the orthicon type comprising, an envelope containing a target, a gun having a cathode, grid and anode for projecting a beam of electrons toward said target, a wall coating anode and a decelerating electrode adjacent said target, means for producing an axial magnetic focusing field between the first mentioned anode and the target, a deflecting unit for producing two magnetic fields at right angles to each other and to said focusing field, and an adjusting device connected to said unit for moving it axially of the envelope towards and from said decelerating electrode to balance the helical motion produced by said unit.

2,533,074
ROTARY ORE CONCENTRATOR
Arthur J. Weinig, Golden, Colo., assignor to Colorado Iron Works Company, Denver, Colo.
Application April 12, 1948, Serial No. 20,472
10 Claims. (Cl. 209—159)

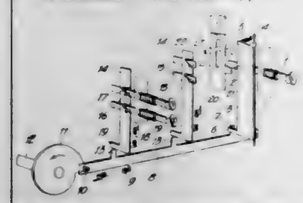
1. A method of separating ores containing light particles, such as gangue, a coarse concentrate, and a fine concentrate, comprising; confining a

teeter column in a substantially annular zone with the axis of the teeter column disposed substantially vertically, supporting the bottom annular area of the teeter column, applying rotating forces to the inner surface of the teeter column and feeding water into the teeter column producing a spirally upward movement of water in the zone, the upward movement of the water carrying light particles upwardly for discharge from the upper end of the zone and the concentrates moving to the lower end of the zone,



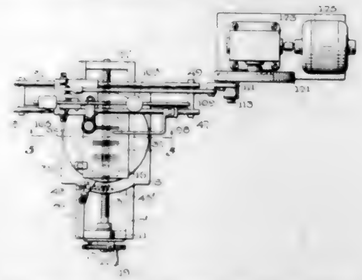
by-passing a portion of fine concentrate from the teeter column above its lower end in an inward direction and thence downwardly, discharging coarse concentrate inwardly from the lower end of the teeter column and thence downwardly, recirculating a portion of the downwardly moving fine concentrate into the lower end of the teeter column for passage upwardly therethrough, and discharging a portion of the downwardly moving fine concentrate with the downwardly moving coarse concentrate by the action of an outgoing current of water.

2,533,075
CASH REGISTER, ACCOUNTING MACHINE, AND THE LIKE
Sture Edvard Werner, Stockholm, Sweden, assignor to L. M. Ericssons Kassaregister Aktiebolag, Stockholm, Sweden
Application December 5, 1944, Serial No. 566,668
In Sweden December 13, 1943
9 Claims. (Cl. 235—7)



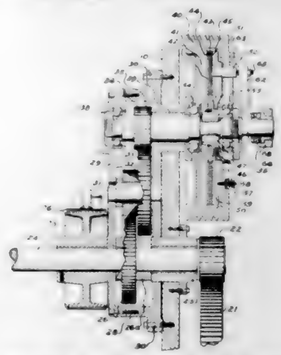
1. In a cash register, accounting machine or other machine of the class specified, the combination with a kind of operation key and banks of amount keys, of means to retain said kind of operation key in depressed position, means adapted to release said retaining means in the course of a cycle of operation of the machine, means to suppress said releasing action in the depressed state of any amount key but allow it to take place in the normal position of all amount keys, and means to determine the kind of operation of the machine in dependence on the kind of operation key being held depressed or released in the course of the respective cycle of operation of the machine.

2,533,076
APPARATUS FOR TESTING THE ADHESION OF FILMS OF COATING MATERIAL
David M. Williams, Warrensville Heights, Ohio, assignor to The Arco Company, Cleveland, Ohio
Original application May 24, 1944, Serial No. 537,132. Divided and this application May 14, 1945, Serial No. 593,689
15 Claims. (Cl. 73—150)



2. An apparatus for testing the adhesive characteristics of a film of coating material applied to a panel comprising a slidable holder for said panel, a grooving tool, means connected to said tool for moving the same over said panel in contact with the coating material thereon in one direction and above said coating material in the opposite direction, a feed mechanism for adjusting the slidable holder laterally of the tool path after each grooving movement and means to regulate the amount of such adjustment.

2,533,077
GEAR REDUCTION MECHANISM FOR PRESS BRAKES
Larkin R. Williamson, Montclair, N. J.
Application October 15, 1947, Serial No. 780,062
1 Claim. (Cl. 74—392)



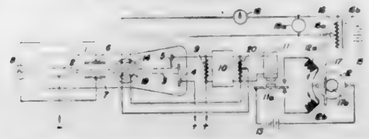
In a powered press brake, an upright plate forming one end of the frame of the press; a tubular bearing mounted in an opening in said plate and attached at one end to one face of the plate, the opposite end of the bearing being adapted to extend beyond the opposite face of the plate; a drive shaft journalled in said bearing; a gear housing attached to said opposite face of the plate, the housing having aligned

openings through which the drive shaft extends, one of said openings being adapted to telescopingly receive said opposite end of said bearing whereby the thickness of the plate may appreciably vary within limits without disconnection from said housing; a gear keyed to said drive shaft and enclosed by said housing, said housing having an elongated journal projecting from the side thereof confronting the plate and adapted to extend through an opening in said plate and beyond said one face of the latter whereby the thickness of the plate may vary within limits without interference with the outer end of the elongated journal; a clutch shaft journalled at one end in the housing and extending through said elongated journal; a pinion gear on said clutch shaft; and reduction gearing journalled in said housing and meshing with the gear on the drive shaft and the pinion gear on the clutch shaft.

2,533,078
ANTENNA SYSTEM
Oakley M. Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 22, 1945, Serial No. 579,177
7 Claims. (Cl. 250—33)

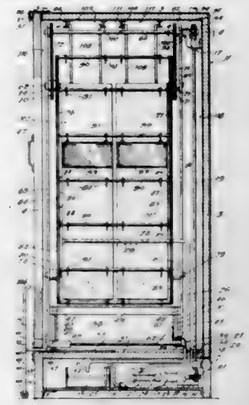
6. An antenna system including at least one radiating element in the form of a tubular member of conductive material, a concentric transmission line element comprising an inner conductor and a shielding member extending into and terminating within said tubular member, the inner conductor only being connected to the interior of said tubular member, and a tubular conductor entirely within said tubular member and coaxially arranged between said members, said tubular conductor having one end thereof connected to one of said members and free of both of said members at the other end, thereby to interpose series reactance in said system.

2,533,079
ELECTRIC MEASURING SYSTEM
Herbert Ziebolz, Chicago, Ill., assignor to Askania Regulator Company, a corporation of Illinois
Application May 3, 1946, Serial No. 666,976
7 Claims. (Cl. 171—95)



1. A system for measuring the peak value of an alternating current comprising a cathode ray tube having means for producing an electron beam normally directed along a predetermined axis, an anode positioned adjacent said beam and substantially out of the normal path thereof, deflecting means energized by said alternating current for alternately deflecting said beam towards and away from said anode at the frequency of said alternating current, deflecting means for shifting the mean position of said beam away from said anode, a source of direct current for energizing said second deflecting means, means controlled by electrons striking said anode for increasing said direct current until said beam does not strike said anode, and an indicator energized by said direct current for indicating the peak value of said alternating current.

2,533,080
DEVICE FOR BARBECUING, ROASTING, BROILING, AND THE LIKE
William G. Alexander, Chicago, Ill.
Application May 23, 1946, Serial No. 671,673
6 Claims. (Cl. 99—443)

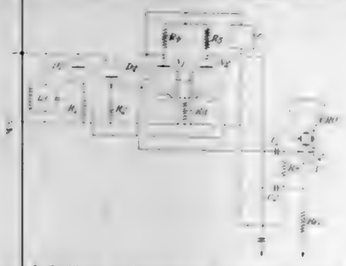


1. In a device of the character disclosed having a housing provided with supporting means therein, a unitary structure on said supporting means capable of being movably located within the housing on said supporting means or removal therefrom over said supporting means, comprising a frame supported in the housing on said supporting means, a conveyor mechanism carried by the frame, means for operating the conveyor, said conveyor having a series of rods and suspending elements carried by said rods for holding suspended material to be heat treated; and a heating means movably supported in the housing to be located at any predetermined distance relative to said material, and wherein there is carried a receptacle in said frame beneath said conveyor mechanism for catching drippings from said material, and wherein said receptacle has a drain outlet, a container supported in the housing and located below said receptacle, and a drain duct associated with said drain outlet to receive liquid therefrom and leading to said container, said drain outlet and the inlet end of said drain duct being together when said unitary structure is located in operative position in the housing and are separated when said unitary structure is moved from its operative position in the housing.

2,533,081
VIDEO-FREQUENCY RECEIVING APPARATUS
Edward George Orme Anderson, West Wickham, and Geoffrey George Bernard, London, England, assignors to John Logie Baird Limited, London, England, a British company
Application February 17, 1948, Serial No. 8,955
In Great Britain December 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 11, 1966
6 Claims. (Cl. 315—22)

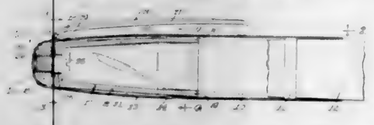
1. A method of applying video-frequency modulating voltages to a cathode-ray tube which

consists in simultaneously applying by means of a push-pull coupled amplifier stage two video



signal modulation voltages of opposite sign to a modulator electrode and the cathode respectively of a cathode-ray tube.

2,533,082
FOUNTAIN PEN CAP
Marlin S. Baker, Janesville, and Robert W. Randolph, Milton, Wis., assignors to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application June 18, 1948, Serial No. 33,806
5 Claims. (Cl. 120—42.01)



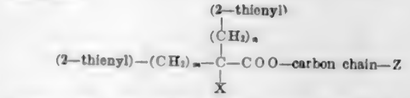
5. A closure cap for a fountain pen of the type having a tapered writing end, said cap comprising an outer shell having an open end adapted to slidably and snugly receive the writing end of the pen, an air vent in the side wall of said outer shell leading to the exterior thereof, an inner shell disposed in said outer shell and having an open end portion inwardly of the open end of said outer shell providing an annular sealing seat for the end portion of the pen inwardly of the open end of said outer shell, said shells defining an air passage therebetween connecting said air vent with the interior of said outer shell beyond the open end of said inner shell, a pocket clip member having an anchor end-portion extending through said air vent and into the end wall of said inner shell, and an anchor screw extending through said anchor end portion and threaded into said inner shell for securing said shells and clip member in assembled relation.

2,533,083
DEVICE FOR SUSPENDING CLOTHES AND LIKE ARTICLES
William Hall Blackburn, Lincoln, England
Application October 1, 1946, Serial No. 700,527
In Great Britain October 16, 1945
1 Claim. (Cl. 24—244)

A self-contained and removably mountable suspension device of the class described comprising an integral hollow body of rectangular cross-section, open at the upper and lower ends and having flat front and rear walls converging downwardly towards each other with one of said walls extending substantially vertically and the other of said walls extending obliquely thereto from the lower part of the said hollow body for a part of the length thereof and flat side walls parallel one to the other, upstanding slots in the side walls open at their lower ends and tapering upwardly at the upper part of each side wall, the upper tapering portions of said slots serving to support the device from a line like support by the wedging action thereof while the lower portions serve for insertion of the material to be suspended from the device, a roller arranged loosely in said hollow body so that its cylindrical periphery engages throughout its length said oblique wall and wedges the portion of the material inserted through said side wall slots against the said substantially vertically extending wall under the action of gravity and the weight of the suspended article, external ribs on said substantially vertically extending wall to obviate springing of that wall under the wedge action of the roller, and guard means extending between the side walls at the upper part of said body to prevent displacement of the roller from the upper end thereof.

2,533,084
AMINOALKYL ESTERS OF DITHIENYL ALIPHATIC ACIDS
Frederick F. Blicke, Washtenaw County, Mich., assignor to Regents of the University of Michigan, Ann Arbor, Mich., a corporation of Michigan
No Drawing. Application August 17, 1946, Serial No. 691,409
8 Claims. (Cl. 260—294.3)

1. A compound selected from the group consisting of (*a*) basic-alkyl esters having the formula



wherein *m* represents an integer from 0 to 5, inclusive, *n* represents an integer from 0 to 5, inclusive, the carbon chain is an alkene radical of the group consisting of straight and branched chain alkene radicals and contains from 1 to 8 carbon atoms, inclusive *X* is selected from the group consisting of hydrogen and hydroxy radicals, and *Z* is selected from the group consisting of alkylamino, dialkylamino and piperidino radicals, and (*b*) salts thereof.

2,533,085
AMINOHYDROXYBUTENES
Frederick F. Blicke, Ann Arbor, Mich., assignor to Regents of the University of Michigan, Ann Arbor, Mich., a corporation of Michigan
No Drawing. Application January 21, 1948, Serial No. 3,542
18 Claims. (Cl. 260—294.7)

1. A compound of the group consisting of (*a*) 1-amino-2-hydroxy-3-butenes having the general formula

$$H_2C{=}CH{-}CHOH{-}CH_2{-}Z$$

(*b*) 1-hydroxy-4-amino-2-butenes having the general formula

$$HOH_2C{-}CH{=}CH{-}CH_2{-}Z$$

in both of which formulae Z is a radical of the group consisting of alkylamino, dialkylamino,

piperidino, 2-methylpiperidino, morpholino, pyrrolidino, monomethylpyrrolidino and dimethylpyrrolidino radicals, and (*c*) acid and quaternary ammonium salts thereof.

9. A process which comprises heating together a 1-hydroxy-2-halo-3-butene with an amine of the group consisting of alkylamines, dialkylamines, piperidine, 2-methylpiperidine, morpholine, pyrrolidine, monomethylpyrrolidines and dimethylpyrrolidines.

2,533,086
HYDROXYMETHYLTHIANAPHTHENE
Frederick Franklin Blicke, Washtenaw County, Mich., assignor to Regents of the University of Michigan, Ann Arbor, Mich., a corporation of Michigan
No Drawing. Application November 19, 1949, Serial No. 128,485
7 Claims. (Cl. 260—330)

1. As a new composition of matter, a compound selected from the group consisting of 2-hydroxymethylthianaphthene and 3-hydroxymethylthianaphthene.

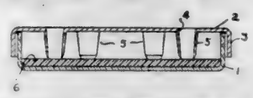
2,533,087
THIANAPHTHENYLMETHYL BENZOATE
Frederick F. Blicke, Washtenaw County, Mich., assignor to Regents of the University of Michigan, Ann Arbor, Mich., a corporation of Michigan
No Drawing. Application November 19, 1949, Serial No. 128,488
8 Claims. (Cl. 260—330)

1. As new compositions of matter, thianaphthenylmethyl benzoates selected from the group consisting of 2-thianaphthenylmethyl benzoate and 3-thianaphthenylmethyl benzoate.

2,533,088
PETRI DISH COVER
John H. Brewer and Theodore J. Carski, Baltimore, Md., assignors to Baltimore Biological Laboratory, Baltimore, Md., a corporation of Maryland
Application April 26, 1949, Serial No. 89,731
10 Claims. (Cl. 195—139)

1. A Petri dish cover comprising a support having a top portion and an integral flange portion at substantially right angles to each other and a liner of flexible, disposable, absorbent material detachably secured in said support with its edge in contact with the flange portion adjacent its junction with the top portion.

2,533,089
PETRI DISH COVER
John H. Brewer and Theodore J. Carski, Baltimore, Md., assignors to Baltimore Biological Laboratory, Baltimore, Md., a corporation of Maryland
Application April 26, 1949, Serial No. 89,732
4 Claims. (Cl. 195—139)

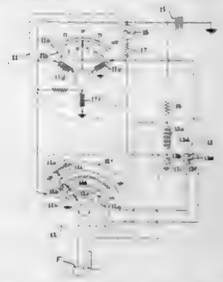


1. A Petri dish cover comprising a substantially flat circular top portion and a depending integral flange, an opening through said circular portion and a depending open tube surrounding said opening.

2,533,090
CAR DUMPER SAMPLING APPARATUS
Armand Bur, Cleveland, Ohio
Application May 17, 1948, Serial No. 27,566
7 Claims. (Cl. 73—421)

1. In combination, a car dumper, a sampling pipe mounted thereon and movable therewith to a material receiving position and having a sample receiving opening arranged to receive a sampling of material flowing from a car mounted on the dumper, and means to operate the car dumper to cause material to flow from a car thereon into said opening, and then moving the dumper to a non-dumping position conditioning the sampling pipe to discharge a received sample of material.

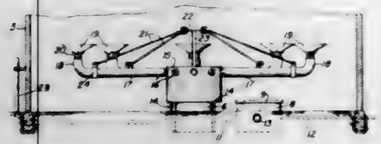
2,533,091
PLURAL SCALE TELEMETERING INDICATING SYSTEM
Louis M. Campani, Freeport, N. Y., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware
Application February 14, 1947, Serial No. 728,415
8 Claims. (Cl. 177—351)



1. Telemetric apparatus for indicating the magnitude of a condition, comprising a single mechanical means movable in a predetermined path in accordance with and positioned as a function of the magnitude of the condition to be indicated, wiper means moved by said mechanical means, resistor means including resistor portions extending respectively along different ranges in the movement of said wiper means, said wiper means electrically contacting said resistor portions, an electrical indicating instrument having a single movable indicating element and a plurality of relatively stationary graduated scales cooperating therewith and graduated to correspond respectively with said ranges of said resistor portions, a source of E. M. F.; and an electric circuit including said resistor means, said indicating instrument, said source of E. M. F., a permanent connection from said indicating instrument to one end of said resistor means, said wiper means cooperating with said resistor portions as voltage dividers to control the position of said indicating element, and switching means interconnecting between said resistor portions and said indicating instrument for selectively connecting an electrically predetermined point in said circuit to said resistor portions, so as

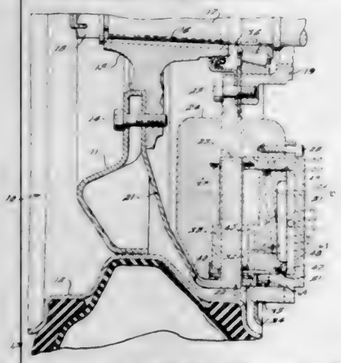
selectively to predetermine the resistor portion which shall control the position of said indicating element, so that a predetermined range of movement of said indicating element will selectively represent different predetermined ranges of the movement of said mechanical means and hence of the magnitude of the condition to be indicated.

2,533,092
TOBACCO CURING APPARATUS
John E. Chestnutt, Richmond, Va.
Application January 26, 1950, Serial No. 140,589
4 Claims. (Cl. 263—19)



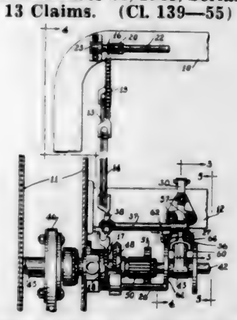
1. A tobacco barn heater comprising an open-top combustion chamber adapted to be positioned centrally of and within the lower portion of the barn, an oil burner having a burner nozzle extending into said combustion chamber through one side thereof, a hood supported over said chamber and having a circular series of uniformly spaced radial outlets at the top, the lower portion of said hood being disposed in spaced surrounding relation to the upper portion of said combustion chamber, horizontal flues radiating from and having their inner ends connected to the outlets of said hood, said flues having upwardly directed outer ends, inverted conical deflectors supported on and disposed over the outer ends of said flues, and a horizontal baffle centrally disposed and supported within the hood below said outlets and above the combustion chamber.

2,533,093
FLUID PRESSURE OPERATED DISK BRAKE WITH COMPENSATING PISTON
Bruce E. Clark, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 29, 1946, Serial No. 693,639
6 Claims. (Cl. 188—152)



1. In a brake a housing having a cylinder therein, a piston slidably mounted in said cylinder, hydraulic means to move said piston, said piston having a first portion adapted to slidably engage the walls of said cylinder and a second portion having a smaller diameter than said first portion, said second portion having an irregular length whereby forces applied laterally of said second portion by said hydraulic means provide a resultant force directed laterally of the piston axis.

2,533,094
SELVAGE MOTION
Henry Cooper, Hackensack, N. J., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application November 24, 1948, Serial No. 61,780
13 Claims. (Cl. 139—55)



1. A selvage motion for a loom operatable to control the shedding movement of a plurality of selvage harnesses, comprising a plain selvage cam, a separate tape-selvage cam coaxial therewith, a treadle between said cams for operating said selvage harnesses in their shedding movements, a cam follower, and means for removably supporting said cam follower on either side of said treadle in follower engagement with either of said cams, to produce selectively either a plain selvage or a tape-selvage.

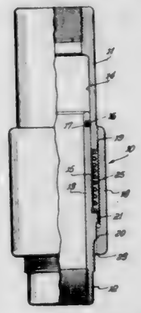
2,533,095
MULTIPLE GAP ARC STARTING IONIZER
Irvin W. Cox, West Allis, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 12, 1948, Serial No. 59,480
10 Claims. (Cl. 250—27.5)

1. A multiple gap ionizer for a reconstructible cathode pool type tube which is rendered conductive in response to a voltage having a steep potential gradient impressed between its ionizer and its cathode, comprising an element composed of discrete granular conducting particles embedded in a ceramic matrix.

2,533,096
PRODUCTION OF IRON POWDER
Herschel H. Cudd and Emma Jean Freeman, East Point, Ga., assignors to International Minerals & Chemical Corporation, a corporation of New York
No Drawing. Application August 17, 1945, Serial No. 611,260
8 Claims. (Cl. 204—10)

1. The improvement in the art of producing iron powder, which comprises: electrolyzing an aqueous solution of an iron salt selected from the group consisting of ferrous chloride and ferrous sulfate, said solution being at a pH of between about 1.0 and 3.0 and containing at least about 2.8 per cent of ferrous ion, said solution also containing at least about 0.1 per cent of a hydrophilic colloid, which in said solution, will function as a foaming agent, the current density during electrolysis being between about 25 and 140 amperes per square foot.

2,533,097
UNION AND EXPANSION JOINT
Clarence R. Dale, Altadena, Calif.
Application September 15, 1944, Serial No. 554,251
9 Claims. (Cl. 285—199)



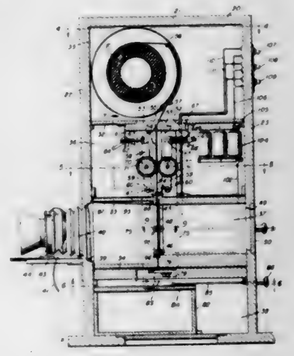
1. A joint of the character described, comprising first and second tubular sections having, respectively, outer and inner telescopically arranged end portions with engaging cylindrical surfaces, sealing means between said end portions, and a sleeve nut carried by said second section and engaged with exterior threads on said first section, said sections being relatively axially movable together to an initial made-up position by rotation of said sleeve nut, and the sections thereafter being movable relatively together beyond said initially made-up position, and a spring between said sections resisting their relative movement together.

2,533,098
NUCLEAR HALOGENATION OF THIOPHENE
Lawrence W. Devaney, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application August 22, 1946, Serial No. 692,387
6 Claims. (Cl. 260—329)

1. A continuous process for the production of mainly nuclear mono-halogenated thiophene compounds which comprises continuously introducing a gaseous halogen and a liquid thiophene compound containing at least two reactive nuclear hydrogen atoms at a mol ratio of thiophene compound to halogen of at least 2 into contact with one another in a reaction zone at a liquid feed rate of 0.5 to 20 liters of thiophene reactant per hour per liter of reactor volume, reacting said halogen and thiophene compound in the liquid phase and continuously withdrawing the liquid halogenated product from reaction zone.

2,533,099
PHOTOGRAPHIC CAMERA
Charles H. Earhart, Danville, Ill., assignor of one-fourth to Donald L. Gebhart, Danville, Ill.
Application December 19, 1947, Serial No. 792,685
6 Claims. (Cl. 95—31)

1. A quick processing camera for exposing a sensitized positive picture strip comprising a casing forming a light tight unit, divided into a series of superposed coextensive compartments by partition walls, each partition wall being provided with a transverse slot for the passage of said sensitized picture taking strip, leading into said adjacent compartment of the series, the slots of all compartment partition walls being aligned and arranged in the same plane, a picture strip storing case in one of said compartments, a film advancing means in the adjacent compartment of the series, a focusing screen in the compartment adjacent to the last mentioned compartment, containing the film advancing means, said focusing screen subdividing the compartment into two sections, one of said sections being a viewing section and the other a picture taking camera section, said focusing screen being arranged in a transverse plane closely adjacent to the plane

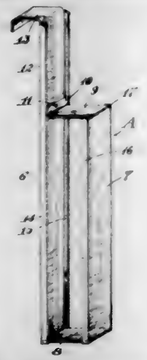


passing through the slots in the compartment partition walls, the viewing section behind the focusing screen being provided with a viewing opening, closable by a door leading to the outside, and the said picture taking camera section being provided with a photographic lens and shutter, a series of contact devices arranged along and operated by the strip, a source of current and signal lamps on the outside, said signal lamps indicating the position of the strip, in the focal plane, a cutting device arranged in the vicinity of the slot leading from the last mentioned compartment containing the picture producing camera section and the focusing screen on the outside and a cut strip collecting compartment provided with an exposed cut strip collecting box, located below the slot.

2,533,100
NYLON IMMUNIZED AGAINST DYES BY SULFURIZED PHENOLS
Walter Flügel, Hans Martin Hemmi, Kurt Hofer, and Adam Mikula, Basel, Switzerland, assignors to Sandox Limited, Basel, Switzerland
No Drawing. Application April 15, 1948, Serial No. 21,308. In Switzerland April 16, 1947
4 Claims. (Cl. 8—115.5)

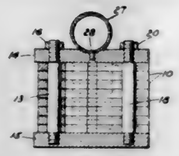
1. A process for modifying the tinctorial properties of textile material manufactured from synthetic linear polyamides, which comprises the step of treating such material for about 10 to 30 minutes at 90 to 100° C. with an aqueous alkaline solution of a water-soluble member of the group consisting of sulfurized phenols containing from 26 to 40% of sulfur attached to the molecule and the metal salts, metal complexes and reduction products thereof.

2,533,101
PHOTOGRAPHIC FILM HOLDER
David M. Ghrist, Glendale, Calif.
Application August 9, 1948, Serial No. 43,265
2 Claims. (Cl. 95—100)



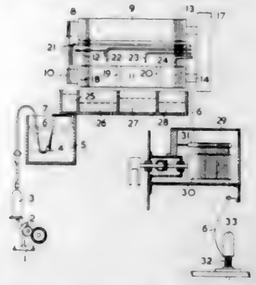
1. In a holder for rectangular pieces of a photographic film, a pair of spaced apart parallel elongated side members having straight parallel longitudinal margins, an end member connecting end portions of said side members, another end member connecting said side members at portions thereof spaced from the first named end member, said end members holding said side members in their spaced relation against spreading relative to each other, each of said side members being arranged with its straight parallel side margins arranged opposite the margins of the other side members, and inturned parallel flanges on the side margins of each of said side members having edges opposing and spaced from the edges of the flanges on the other side member, said flanges extending parallel to each other and forming diagonally opposed film engaging angles along the internal marginal portions of said side members for frictionally holding opposed margins of flexed photographic films interposed between said diagonally opposed angles.

2,533,102
CONTAINER FOR RADIOACTIVE SAMPLES
John F. Gifford, Richmond, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 28, 1948, Serial No. 51,581
1 Claim. (Cl. 312—152)



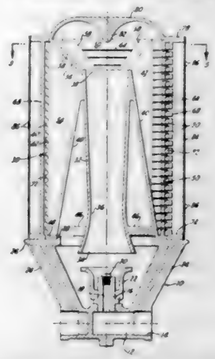
In a carrier for radioactive samples, in combination, spaced top and bottom plates having spacer members therebetween, a plurality of closely overlying leaves in the form of trays pivoted to said members to swing thereabout, said leaves including a pair of leaves at the same level mounted to swing outwardly in opposite directions and having contiguous adjacent sides which abut when the pair of leaves are swung inwardly, said plates and leaves being formed of shielding material and each of said pair of leaves having a tray-forming depression in its upper surface and a channel extending between said depression and the side which abuts the other of the said pair of leaves.

2,533,103
APPARATUS FOR THE LIQUID TREATMENT OF THREADS
John Harrison Givens, Meriden, and John Wale and Leslie Rose, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application April 20, 1949, Serial No. 88,584
In Great Britain May 7, 1948
12 Claims. (Cl. 18—8)



1. A roller on the surface of which liquid treatment is to be effected, having at least one liquid treating zone with a surface of material which is wetted by the liquid to be used and a boundary zone with a surface of material which is not wetted by the liquid to be used so that the liquid supplied to the treating zone will not normally pass across the surface of the boundary zone.

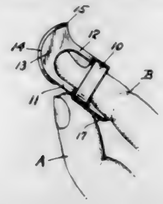
2,533,104
HIGH PRIMARY TYPE GAS BURNER WITH RADIANT SCREEN
Carl E. Golden, Burlingame, and Oscar L. Notley, San Francisco, Calif.
Application June 27, 1947, Serial No. 757,380
9 Claims. (Cl. 158—99)



1. A gas burner comprising an annular base member, concentric inner and outer shells supported on the base member in narrowly spaced relation and providing a free space therebetween, each shell being provided with a plurality of ports, a Venturi tube axially disposed within said inner shell, means on the base member for supplying gas and aspirated air to the inlet end

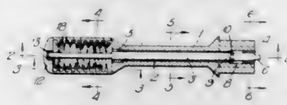
of the tube, a closed covering member on the upper end of said shells disposed in spaced relation to the outlet end of the tube, said member comprising deflecting means for directing the gas mixture issuing from said outlet toward the ports of the inner shell to issue therefrom, and conduit forming means between the tube and inner shell and defining second stage air passageways between the base member and the space between the shells.

2,533,105
THREAD STITCH RIPPING DEVICE
Inez M. Groff, Mishawaka, Ind.
Application August 2, 1945, Serial No. 608,459
2 Claims. (Cl. 30—298)



1. A thread ripping device comprising a finger ring, spaced inflexible substantially parallel webs secured to one side of said ring and extending axially of the ring, a curvilinear knife blade secured to the ends of said webs and integral and coplanar therewith, a projection on the side of the ring remote from the webs and aligned with one of said webs, and a pointed tip on said knife blade on the end thereof remote from said projection.

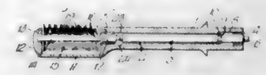
2,533,106
ROTARY TOOTHBRUSH WITH LIP GUARD
Donald P. Grover, Chicago, Ill.
Application August 17, 1946, Serial No. 691,273
3 Claims. (Cl. 15—23)



1. A rotary toothbrush of the class described, comprising a handle portion having a rotatable spindle extending therethrough, a brush element connected to one end of said spindle and rotatable therewith, a shield partially surrounding said brush element, and a plurality of spaced guard members extending inwardly toward the spindle axis from a side of said shield between the bristles on said brush element and terminating short of the other side of said shield, to thereby prevent the lip of the user from being drawn inwardly between the shield and the brush element during rotation thereof.

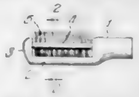
2,533,107
ROTARY TOOTHBRUSH WITH MOVABLE LIP GUARD
Donald P. Grover, Chicago, Ill.
Application August 21, 1946, Serial No. 691,979
5 Claims. (Cl. 15—23)

1. A rotary toothbrush of the class described, comprising a handle portion, a brush element rotatably mounted at one end of said handle portion, and a grille pivotally mounted on said handle portion and extending longitudinally of said brush element having transverse bars and slots therein, the bristles of said brush extending



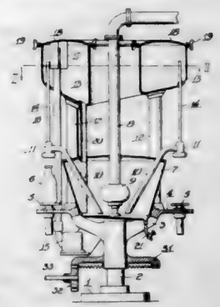
through said slots and said bars adapted to prevent the lip of a user from being drawn inwardly against said brush element during rotation thereof.

2,533,108
ROTARY TOOTHBRUSH WITH LIP GUARD
Donald P. Grover, Chicago, Ill.
Application August 22, 1946, Serial No. 692,270
3 Claims. (Cl. 15—23)



1. A rotary toothbrush of the class described, comprising a handle portion, a brush element rotatably mounted at one end of said handle portion, guard supporting means having sides extending lengthwise of said brush element, and thin wire guard means having curved portions at both sides of said brush element and spaced apart throughout the length thereof, a part of the curvature of each portion being generally parallel to the periphery of said brush element to prevent the lip of a user from being drawn inwardly against said brush element during rotation thereof.

2,533,109
ROTATABLE SUCTION CONTAINER FILLING MACHINE
Hans Hannover, Hellerup, Copenhagen, Denmark
Application July 18, 1945, Serial No. 605,777
In Sweden July 26, 1944
2 Claims. (Cl. 226—116)



1. A rotatable suction container filling machine comprising in combination a supply vessel, tables for supporting the containers to be filled arranged around the supply vessel and a supply tube for said vessel, a vacuum container of annular shape mounted over said supply vessel and having an outside dimension approximately corresponding to the distance between the said tables and the rotation axis of the machine, and an inside dimension greater than the diameter of said supply tube, said supply tube being arranged freely in the inner free space of said annular vacuum container and being supported solely by said supply vessel, filling nozzle

mounted over the table, a filling tube connecting each nozzle with the supply vessel and a vacuum tube connecting each nozzle with the vacuum container.

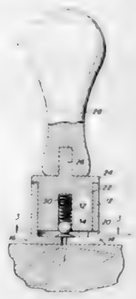
2,533,110
WEATHER VANE
Otis D. Harbert, Covina, Calif.
Application November 13, 1946, Serial No. 709,456
3 Claims. (Cl. 46—58)

1. A weather vane comprising a spindle having separate and independent counter rotating coaxial wind wheels thereon, each of said wheels having a ball bearing hub rotatably fitting said spindle, a pair of parallel oppositely extending arms removably secured to each of said hubs, a vane for the outer end of each of said arms, the hub and arms of one of said wheels being substantially the same as the hub and arms of the other wheel, one of said wheels being reversed in position on said spindle with respect to the other wheel, whereby each vane on one of said wheels is always out of alignment with the vanes on the other wheel the outer ends of said arms having slant holes, bolts for removably securing one of said vanes to each of said arms, the holes for one pair of said arms being at an angle with respect to the holes of the other pair of arms for counter rotation of said wheels.

2,533,111
TILT COMPENSATOR FOR TYPEWRITERS
Herman G. Hartman, Rockville, Md., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 12, 1947, Serial No. 791,290
3 Claims. (Cl. 197—82)

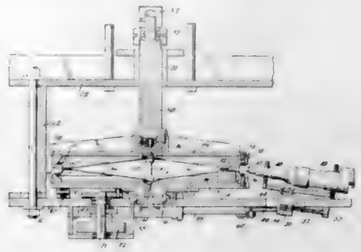
1. The combination with a typewriter having a frame, a carriage slidable on said frame, a cylindrical rotary platen in said carriage, a spring on said frame to urge said carriage in a letter feeding direction and an escapement means operable to release said carriage to the urge of said spring for resulting letter space movements of said carriage, of means to render said spring and escapement means effective to letter feed said carriage in any position of said frame with respect to the force of gravity comprising a pair of pair of pulleys attached to the rear of said frame, a continuous belt around said pulleys, means for releasably attaching said belt to said carriage, a rail on said frame, a counterweight movable thereon in a direction parallel to the direction of motion of said carriage and means connecting said counterweight with said belt.

2,533,112
INSERTER OR REMOVER FOR THUMBTACKS
Arthur C. Hayden, Nantucket, Mass., assignor of thirty-three and one-third per cent to Albert Falcofsky and thirty-three and one-third per cent to Barnet Smola, both of New Bedford, Mass.
Application November 9, 1949, Serial No. 126,287
3 Claims. (Cl. 1—47)



1. A tack driving and drawing tool comprising a tube, a wall secured to one end of said tube, a slot in said wall, a cylinder secured in said tube, a recess in said cylinder, a coil spring in said recess, said coil spring urging a ball bearing in said recess outward thereof against said wall to removably retain a thumb tack between said wall and said cylinder.

2,533,113
WIRE WHEEL SPOKE TIGHTENING MACHINE
Harry H. Henry, Chicago, Ill., assignor to Monark Silver King, Inc., Chicago, Ill., a corporation of Delaware
Application December 21, 1946, Serial No. 717,780
4 Claims. (Cl. 157—1.5)

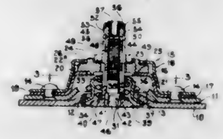


1. In apparatus for tightening hub spokes upon the rim of a bicycle wheel, the spokes having outer threaded ends engaged by caps having threaded sleeves extending through said rim, rotatable clamping means for maintaining said rim and head in true alignment, a drive member mounted for coaxial rotation with said clamping means and having equally-spaced radial slots, cam means carrying a roller engageable with said slots operative upon rotation of the cam means to rotate intermittently the said clamping means, means for rotating said cam means, and power-operated means engaging said screw caps to rotate the same while said wheel is at rest between said intermittent movements.

2,533,114
MANUFACTURE OF GLUTAMIC ACID
Forest A. Hoglan, Toledo, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill., a corporation of New York
No Drawing. Application August 29, 1947, Serial No. 771,393
10 Claims. (Cl. 260—529)

1. In the process of producing l(+) glutamic acid by hydrolysis of a protein with sulfuric acid in which the acidic hydrolysate is reacted with a substantial excess of a compound selected from the class consisting of alkaline earth metal oxides and hydroxides and the resultant alkaline earth metal sulfate precipitate is removed from the alkaline reaction mixture, the improvement which consists in reacting the residual alkaline earth metal present in the alkaline reaction mixture with a soluble sulfite while maintaining the pH of the mixture at about 5.5–7.5 and then removing the resultant alkaline earth metal sulfite precipitate from the reaction mixture.

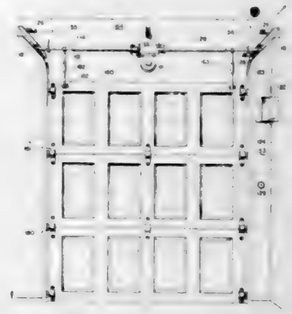
2,533,115
FASTENER
Otto J. Huelster, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Original application August 7, 1943, Serial No. 497,721, now Patent No. 2,486,412, dated November 1, 1949. Divided and this application September 18, 1945, Serial No. 617,010
7 Claims. (Cl. 24—221)



1. In a fastener of the cam and stud type, a cam block, a boss projecting from said block, a polygonal flange projecting from the surface of the block opposite the boss, nested shells having offset, spaced mid-portions adapted to receive the said cam block, the outer of said shells having an opening adapted to adjustably receive said boss, the inner of said shells having a polygonal opening adapted to receive said polygonal flange and of such size and shape that adjustment of the block within the spaced portions of the shells is permitted but rotation thereof is prevented.

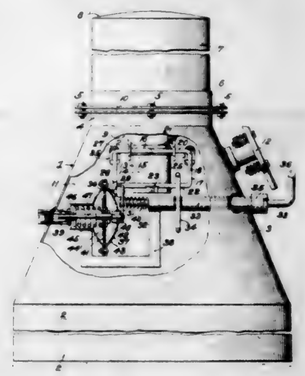
2,533,116
CONTROL SYSTEM FOR DOORS
Felton S. Jenkins, Philadelphia, Pa.
Application May 1, 1946, Serial No. 666,471
5 Claims. (Cl. 268—59)

1. A control system of the class described comprising in combination, a radio transmitter, a door arranged to travel on overhead rails, an electric motor driven operator arranged to travel on said rails for opening and closing said door, a source of electric current for said motor, a radio receiver arranged to apply said current to said motor when actuated by a signal from said transmitter, automatic means for stopping said motor and said operator at the end of travel of said door, automatic means for stopping said motor and said operator upon obstruction of said operator during travel of said door and said operator, said last named means including a nut rotated by said motor for reciprocating travel on a non-rotating threaded shaft, drive means between said motor and said nut, said motor being swingably suspended below said shaft, switch means arranged to be actuated by the swinging



action of said motor, said drive means being arranged to cause said motor to swing upon obstruction to travel of said operator on said shaft.

2,533,117
SPLASH SHIELD CLOSING MEANS FOR ACETYLENE GENERATORS
Charles M. Johnson, Lubbock, Tex., assignor to R. C. Johnson, Jr., Lubbock, Tex.
Application June 9, 1948, Serial No. 31,868
7 Claims. (Cl. 48—53.3)

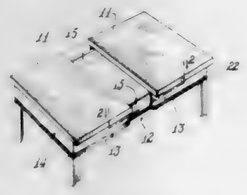


1. In an acetylene generator of the class described including a water tank, a carbide hopper carried thereby, and means including a flexible tubular splash shield forming a carbide passage between the hopper to the tank, the improvement comprising clamp means for the shield biased toward a closed position for constricting said shield to close said passage, means accessible externally of the generator for opening the clamp means, latch means including an element movable with the clamp means between open and closed positions thereof and a plunger member engageable with said element in open position of the clamp to hold the same open, spring means urging the plunger in a direction to engage said element, and a flexible diaphragm carried by the plunger and responsive to pressure of gas in the generator to release said engagement and allow the clamp means to close.

2,533,118
SODIUM SILICATE CEMENT COMPOSITION
Harry J. Kahn, Matawan, N. J.
No Drawing. Application August 12, 1947, Serial No. 768,269
2 Claims. (Cl. 106—82)

1. A cement composition having a consistency from that of heavy molasses to a thick paste and comprising whiting, steatite, water solution of sodium silicate, lard oil and aluminum stearate, wherein the whiting constitutes 35 to 65 percent of the combined weight of whiting and steatite and, for each 100 pounds combined weight of whiting and steatite, the lard oil is 2.5 to 7.5 pounds, the aluminum stearate is 1 to 4.5 pounds and the sodium silicate solution is 130 to 200 pounds and has a concentration of 40 percent by weight of sodium silicate.

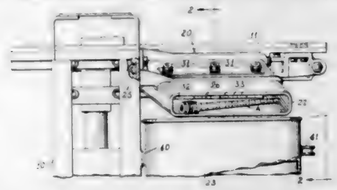
2,533,119
SUPPLEMENTAL APRON FOR CENTER EXTENSION TABLE
Gooding N. Kelly, Chicago, Ill., assignor to The Dearborn Company, Chicago, Ill., a corporation of Illinois
Application January 25, 1947, Serial No. 724,256
1 Claim. (Cl. 311—42)



An extension table fashioned from complemental table tops having fixed depending aprons movable edgewise toward and away from each other, normally concealed supplemental rigid aprons spanning the spaces between the fixed aprons when the table is extended, means securing each supplemental apron at one end to the inside face of one of the fixed aprons, spacers between the secured end of each supplemental apron and the face of the fixed apron to which it is secured for holding the said supplemental apron spaced from the inside face of the fixed aprons to prevent physical contact between the fixed and the supplemental aprons, each supplemental apron having its top edge spaced from the bottom face of the table top movable relative thereto.

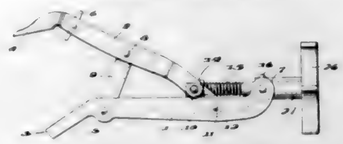
2,533,120
BOBBIN DISCHARGE CHUTE
Karol Kulczycki, Jersey City, N. J., and William Lundgren, Sharon, Mass., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application December 15, 1948, Serial No. 65,392
2 Claims. (Cl. 139—255)

1. In a loom having means for ejecting the spent bobbins from a shuttle box, the combination comprising a receptacle for receiving the ejected spent bobbins, a delivery conduit for the ejected bobbins between said shuttle box and said receptacle, and bumper means in said conduit for retarding the speed of the bobbins in their course towards said receptacle and comprising a flexible resilient curtain sheet depending from the top wall of said conduit and secured at its upper edge to said top conduit wall, said curtain



sheet being slit downwardly from its upper section to form a series of yieldable adjoining strips.

2,533,121
VALVE SPRING COMPRESSOR
Harry W. Kulp, Lancaster, Pa., assignor to K-D Manufacturing Company, a corporation of Pennsylvania
Application May 8, 1947, Serial No. 746,768
4 Claims. (Cl. 29—218)

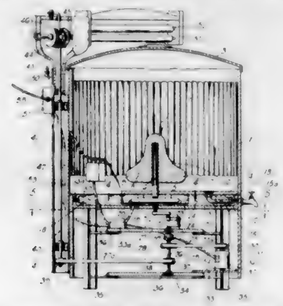


4. A valve spring compressor comprising a pair of relatively longitudinally movable rigid arms, a pair of relative longitudinally spaced rigid spreader links each extending between and pivotally connected to said respective arms to vary the distance between said arms responsive to relative longitudinal movement thereof, a nut pivotally connected to one of said arms for movement about an axis transverse to the common plane of said arms, a collar pivotally connected to the other of said arms for movement about an axis parallel to the pivotal axis of said nut, and an actuating screw rotatably journalled in and held against axial movement through said collar, said screw being in threaded engagement with said nut, whereby rotary movement of said screw will cause relative longitudinal movement of said arms.

2,533,122
TEMPERATURE CONTROLLED ELECTRICALLY HEATED WASHING MACHINE
John E. Landfried, East Palestine, Ohio; Elsie E. Landfried administratrix of said John E. Landfried, deceased
Application May 10, 1945, Serial No. 593,031
2 Claims. (Cl. 68—15)

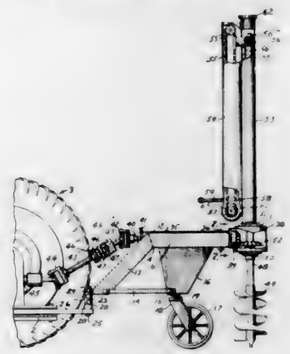
2. In a washing machine comprising a cylindrical container mounted on a substantially vertical axis and having an internal wall axially corrugated and a bottom, a thermostatic device attached to the outside surface of the external wall in heat-receiving relationship with the same and operative in response to a predetermined temperature change within the said container, a bearing sleeve extending upwardly from said bottom, an agitator in said container and rotatably mounted on said bearing sleeve for agitating contents of said container, a base mounted on a substantially vertical axis and supporting said cylindrical container, means thermally insulating the bottom of said container, a driven shaft attached to said agitator for driving the same, said shaft extending through said

sleeve, bottom and insulating means, said insulating means having a circular depression about said driven shaft, an electrical heating element in said circular depression and positioned about said driven shaft for heating contents of said container, an electrical circuit connecting said heating element to a source of energy through said thermostatic device whereby the latter can control the heating effect of said heating ele-



ment in response to said predetermined temperature change within the container, a crank secured to said driven shaft, a driving shaft, means mounting the same parallel to but offset from said driven shaft, a crank on said driving shaft, a link, means pivotally connecting the ends of said link to said driven shaft and driving shaft cranks, respectively, a source of power, and manually operated clutch means connecting said driving shaft to said source of power.

2,533,123
POSTHOLE DIGGER
Charles B. Leavengood, Enid, Okla.
Application May 2, 1947, Serial No. 745,506
3 Claims. (Cl. 255—19)



1. An earth boring apparatus adapted to be attached to the framework of a tractor and operable from the power take-off of said tractor comprising, a frame having cross members provided with bearing surfaces located substantially centrally thereof, a caster wheel supporting the frame, a bolster for pivotally attaching the frame to the tractor frame, a tubular member horizontally supported on the frame in said bearing surfaces, U-bolts for rotatably mounting the tubular member in said bearing surfaces, a head secured to said tubular member, a drive shaft extending through the tubular member, a shaft mounted on said head and extending above and below the head, an auger on the lower end of the shaft, means connecting the drive shaft to the power take-off of the tractor for rotating said drive shaft, and means in said head carried by said shaft and said drive shaft for rotating said auger.

2,533,124
PREPARATION OF STEROID ALDEHYDES
Robert H. Levin, A. Vern McIntosh, Jr., and George B. Spero, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application September 24, 1947, Serial No. 775,956
15 Claims. (Cl. 260—397.3)

1. The process which includes: thioesterifying a steroid compound of the formula:

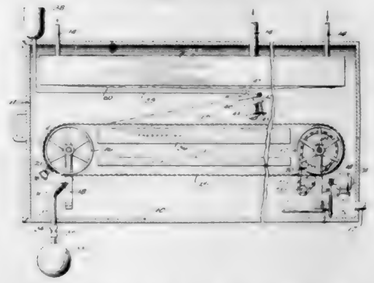
$$P-(CH_2)_n-COX$$

wherein P represents a nucleus, selected from the group consisting of pregnane, pregnene, and pregnadiene nuclei, which is attached to the side-chain in the 20 position; n is selected from zero, one, and two, and X is selected from hydroxyl and halogen, by reacting the steroid compound with a thioesterifying agent selected from the group consisting of mercaptans and metallic mercaptides, and transforming the thioester into a compound of the formula:

$$P-(CH_2)_n-\overset{O}{\overset{\|}{C}}-H$$

wherein P and n have the previously assigned values, by reaction of the thioester with a Raney-type catalyst, which has been modified by reaction with a hydrogen acceptor containing a hydrogen-accepting group selected from the class consisting of carbon-carbon and carbon-oxygen double bonds.

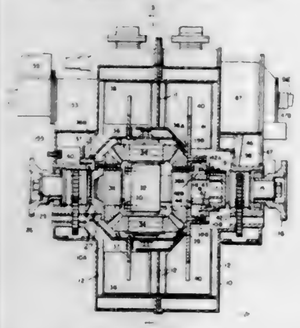
2,533,125
APPARATUS FOR DESICCATION BY ICE SUBLIMATION
Sidney O. Levinson and Franz Oppenheimer, Chicago, Ill., assignors to Michael Reese Research Foundation, a non-profit corporation of Illinois
Application February 16, 1946, Serial No. 648,173
6 Claims. (Cl. 34—76)



1. An apparatus for the desiccation of moisture-bearing materials, a casing providing a closed chamber, means for maintaining the chamber under vacuum, an endless belt in said chamber mounted for continuous movement, said belt being permeable by infra-red rays without substantial absorption of the rays, means for moving said belt, means for directing infra-red rays through said belt and into the material on said belt, and means for impinging upon said belt a thin film of frozen material, said means

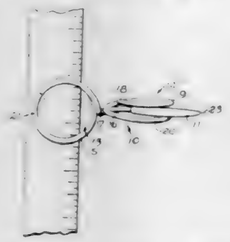
comprising a cylinder having its peripheral portion with outlet openings, means for rotating the cylinder and means comprising a pipe extending freely into said cylinder and having a discharge portion turned toward said outlet openings within said cylinder.

2,533,126
POWER TRANSMISSION DEVICE
William E. Looney, Detroit, Mich.
Application March 8, 1945, Serial No. 581,572
4 Claims. (Cl. 74—757)



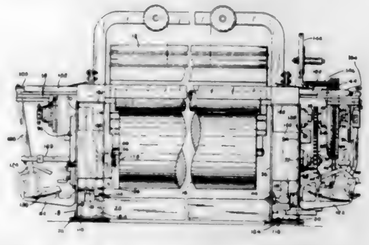
1. A power transmission device consisting of a housing, a driving shaft extending into one end of said housing, a driven shaft extending from the other end of said housing and coaxial with said driving shaft, an intermediate shaft in axial alignment with said driving and driven shafts, a bevel gear fixed to said driven shaft, a second bevel gear rotatably carried on said intermediate shaft and arranged in face to face relation with the first gear, a spider fixed to said intermediate shaft between said gears and carrying a plurality of bevel gears meshing with the two first mentioned gears, means for retarding the movement of said second gear, said retarding means consisting of an encompassing internally radially ribbed chamber in said housing for said second gear, a spider fixed to said gear and carrying radially arranged vanes the edges of which are arranged to pass the ribs of said chamber with only small clearance and means for introducing oil into said chamber and clutch means for connecting the driving shaft with said intermediate shaft.

2,533,127
SKIRT MARKER
Grace M. MacFarlane, Rockford, Ill.
Application January 9, 1946, Serial No. 640,062
1 Claim. (Cl. 33—9)



In a skirt marker, a piece of resilient wire having its opposite end portions bent to form two coils disposed in perpendicular planes with one coil comprising one portion of the length of said wire and the other coil comprising the remainder of said wire, one of said coils having its axis disposed vertically and the other having its axis disposed horizontally, each of said coils comprising a plurality of convolutions with the convolutions of one coil being axially spaced to receive and clamp a piece of chalk with the latter projecting outwardly horizontally, and the other coil having axially spaced convolutions for gripping a vertically extending measuring stick and holding the same at right angles to the chalk.

2,533,128
LOOM FRAME
Robert G. Mallard, New York, N. Y., and Everett H. Ashton, Jersey City, N. J., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application August 17, 1946, Serial No. 691,237
2 Claims. (Cl. 139—1)

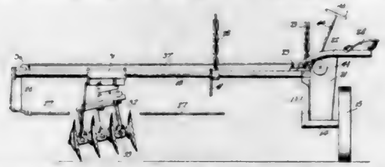


1. In a loom, a side frame, said side frame comprising a pair of spaced substantially vertical webs adapted to support operating loom parts, spacing means attached to the edges of said webs uniting said webs into a unitary structure, one of said webs having an opening therein for passage as a unit into the space between said webs of a loom mechanism including one or more elements adapted to operatively connect said mechanism to loom components positioned on the outside of the other web, means adjacent said opening for connecting said mechanism as a unit to said one web, said other web having one or more holes therein permitting passage of said one or more elements therethrough when said mechanism is properly positioned relative to said loom components, said one or more holes serving as positioning means for said mechanism during the installation thereof, and stress distributing members spanning the space between said webs positioned proximate said opening and united to each of said webs to reinforce said webs and acting to distribute the stress loading of said side frame due to loom operation to both of said webs.

2,533,129
DITCHBANK DISK PLOW
Frank J. Martin, Franklin, La.
Application May 10, 1948, Serial No. 26,052
3 Claims. (Cl. 97—53)

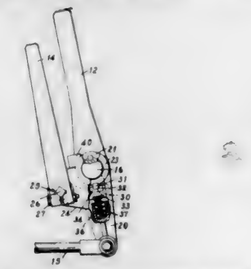
1. A ditch bank plow comprising laterally spaced draft elements, one of said draft elements having a depending portion, a forward guide arm laterally extending across the draft elements and rigidly secured thereto, a rear guide arm rearwardly spaced from the forward guide arm extending laterally and rigidly connected to one of the draft elements, the other draft element having a depending portion, the rearward guide

arm having an integral depending portion and a lateral portion extending from the depending portion, said depending portion of the other draft element rigidly connected to the depending portion of the rear guide arm, a wheel connected to the portion of the guide arm extending from the depending portion of the same, an op-



erator's station connected to the rear guide arm and extending over the supporting wheel, a slide adjustable on the guide arms, a disk gang connected to the slide, and mechanism connected to the slide and operable from the operator's station for effecting the adjustment of the slide and gang on the guide arm.

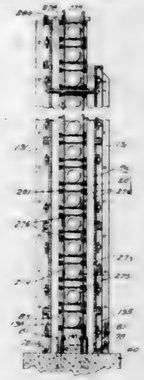
2,533,130
SHIPPER MECHANISM
Elvin A. Mastriani, Newark, N. J., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application September 9, 1948, Serial No. 48,405
11 Claims. (Cl. 139—336)



1. In a loom, a shipper mechanism for connecting and disconnecting power to the loom including a shipper handle, a brake mechanism for stopping the loom including a brake handle, means automatically locking said handles for movement in unison from power connecting brake releasing positions to power disconnecting brake applying positions, and means for releasing said locking means automatically upon movement of said brake handle from brake applying position towards brake releasing position, to permit said brake handle to be moved into brake releasing position, while said shipper handle remains in power disconnecting position.

2,533,131
METHOD OF CONSTRUCTING WALLS HAVING HORIZONTAL AND VERTICAL VOIDS
William R. Mathis, Tampa, Fla.
Original application December 5, 1942, Serial No. 467,971. Divided and this application October 16, 1947, Serial No. 780,272
1 Claim. (Cl. 25—154)

In the method of constructing a poured concrete wall having a footing, and horizontal and vertical communicating voids, those steps which consist of forming a footing having embedded therein upwardly projecting form anchor members spaced apart from one another longitudinally of the footing along lines adjacent its inner and outer sides, upwardly projecting guide stubs disposed in groups spaced apart longitudinally of the footing, each group comprising a plurality of stubs in lines inwardly of the said lines of anchor members, and upwardly projecting reinforcing anchors disposed in groups between said groups of guide stubs each group of reinforcing anchors comprising a plurality of anchors in lines inwardly of the said lines of guide stubs; setting in place between the stubs of each of said groups of guide stubs, a removable vertically disposed core form for forming a vertical void in the wall; securing to the anchors of each of said groups of



reinforcing anchors, apparatus for forming horizontal voids in the wall, including tubes in endwise abutting relation with said removable core forms; detachably securing spaced wall material confining forms to said form anchor members; filling the space between said wall material forms, cores and tubes upwardly from said footing with concrete, embedding said guide stubs and reinforcing anchors in the mass of concrete; and, removing said core forms after the concrete has set so as to open the ends of said tubes to the vertical voids formed by said core forms and leave the wall tied to the footing at the zones of the vertical voids by said guide stubs.

2,533,132
VAPOR PHASE FLUORINATION
Earl T. McBee, La Fayette, Ind., and Richard Marion Robb, Wilmington, Del., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana
No Drawing. Application August 30, 1944, Serial No. 552,016
3 Claims. (Cl. 260—653)

1. In a method for the perfluorination of a monocyclic hydrocarbon, with retention of the carbon structure of the starting monocyclic hydrocarbon, the steps which include: (1) vaporizing a monocyclic hydrocarbon, (2) maintaining solid finely-divided lead tetrafluoride in a reaction zone at a temperature between about 50 degrees and about 500 degrees centigrade, and at a temperature above the boiling point of the starting monocyclic hydrocarbon, (3) causing the vapor of the starting monocyclic hydrocarbon to react with the lead tetrafluoride in the reaction zone, with replacement, with fluorine, of hydrogen bound to carbon in the starting monocyclic hydrocarbon, and with saturation, with fluorine, of double bonds present in the starting monocyclic hydrocarbon, (4) recycling non-per-

fluorinated reaction product into contact with lead tetrafluoride at the said reaction temperature to cause replacement, with fluorine, of all remaining hydrogen bound to carbon, and saturation, with fluorine, of any remaining double bonds, and (5) separating from the reaction product a perfluoro monocyclic organic compound having the same carbon structure as the starting monocyclic hydrocarbon.

2,533,133

REPLACEMENT OF HYDROGEN WITH FLUORINE IN HYDROGEN- AND HALOGEN-CONTAINING ORGANIC COMPOUNDS USING LEAD TETRAFLUORIDE

Earl T. McBee, La Fayette, Ind., and Richard M. Robb, Wilmington, Del., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application July 4, 1945, Serial No. 603,271
10 Claims. (Cl. 260—648)

1. The method for the perhalogenation of an organic compound containing hydrogen and halogen attached to carbon which includes the step of reacting the vapor of said organic compound with lead tetrafluoride at a fluorinating temperature between about 20 degrees and about 500 degrees centigrade for a period of time sufficient to accomplish replacement, with fluorine, of all hydrogen bound to carbon in the starting hydrohalo organic compound, with resulting perhalogenation of the organic compound, and separating a fluorine-containing perhalo organic compound having the same number of carbon atoms in the molecule as the starting compound from the reaction product.

2,533,134

5-BROMO-2,3,4,5-TETRACHLOROPENTADIENOIC ACID

Earl T. McBee and Jack S. Newcomer, West Lafayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application October 1, 1948, Serial No. 52,403
3 Claims. (Cl. 260—539)

1. 5 - bromo - 2,3,4,5 - tetrachloropentadienoic acid, being in a purified state, a white crystalline solid having a melting point of about 119 degrees centigrade.

2,533,135

ARTICLE OR PACKAGE CARRIER

Donald C. McKenzie, Minneapolis, Minn.

Application October 18, 1948, Serial No. 55,056
5 Claims. (Cl. 224—5)

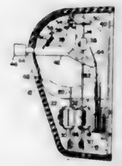
2. A carrying device comprising a pair of plates hingedly connected to each other, a stop on one plate engaging the reverse side of the other plate to hold one plate horizontally while the other plate is vertical, a shoulder strap attached to said vertical plate and a hand strap attached to said horizontal plate.

2,533,136

VIBRATORY REED SIGNALING DEVICE

William J. Muldoon, Garden City, N. Y., assignor to The Wheeler Insulated Wire Company, Incorporated, Bridgeport, Conn., a corporation of Delaware

Application January 15, 1948, Serial No. 2,500
5 Claims. (Cl. 177—341)



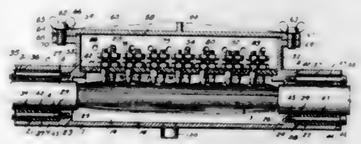
4. A signaling device comprising a vibratory reed, a lever for flexing the reed, latch means for releasing the flexed reed, line terminals, a transducer for generating electrical energy upon vibration of the reed, said transducer having a winding, and a switch operated by the lever to connect the winding to said line terminals during the vibration of the reed.

2,533,137

CABLE TERMINAL

Dory J. Neale, Topeka, Kans.

Application October 8, 1945, Serial No. 620,968
1 Claim. (Cl. 285—194)



A cable connector including a housing composed of mating sections adapted to be assembled about a cable, each section having semi-circular ends cooperating to provide cylindrical sockets, internal flanges on said sections defining bottoms for said sockets, said sockets being adapted to encircle a cable, said flanges having internally threaded openings therein, fastening means securing said sections together, resilient cylindrical sleeves having bias slits disposable about a cable within said sockets, said sleeves having longitudinal openings in registry with said threaded openings, washers comprising circular segments adapted to be assembled about the cable and disposed within the sockets in following relation with respect to the resilient sleeves and having openings registering with the longitudinal openings in said sleeve, said segments having overlapping ends, and headed fastening means engaging the segments and including threaded shanks extending through said registering openings and distorting said sleeve into sealing contact between said cylindrical sockets and the cable.

2,533,138

PURIFICATION OF HYDROGEN

Amos S. Newton, Ames, Iowa, assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application May 18, 1945, Serial No. 594,587
3 Claims. (Cl. 23—210)

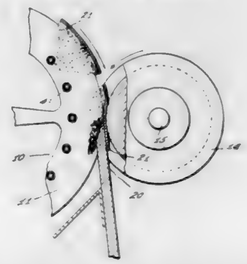
3. A process for the separation of hydrogen from gaseous mixtures containing hydrogen and hydrocarbons which comprises contacting said gaseous mixture with finely divided uranium at a temperature of 700 to 800° C.

2,533,139

CITRUS FRUIT JUICER

Ralph Polk, Sr., and Ralph Polk, Jr., Tampa, Fla., assignors to The Polk Development Company (not incorporated), Tampa, Fla., a co-partnership of Florida

Application October 10, 1945, Serial No. 621,446
8 Claims. (Cl. 146—3)



1. In a citrus fruit juicer, a rotary grate comprising a series of juxtaposed and axially spaced circular discs forming a grate for engaging the cut surface of fruit segments, rotary pressure means having a circular periphery for engaging the outer peel surface of the segments and arranged with respect to the peripheries of said discs to form a constricted throat, means for rotating the grate and pressure means in directions to propel the fruit segments through said throat and press pulp of the segments into the spaces between said discs, the spacing between the discs being sufficient to admit the pulp without substantial juice cell rupture thereof, and other pressure means having portions in said spaces adjacent said throat and fixed relatively to the propelled segments to engage said pulp and remove juice bearing pulp from the peel of the segments, said series of discs as a group being axially arched to form an arched grate, the diameter and arching of the grate being such that when the skins of fruit segments are pressed thereon the natural curvature of the skin will not be deformed to a skin rupture.

2,533,140

BARIUM TITANATE-STANNIC OXIDE CERAMIC

Antonio R. Rodriguez, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

No Drawing. Application December 15, 1948, Serial No. 65,502
4 Claims. (Cl. 106—39)

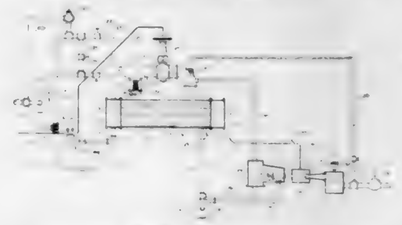
1. A vitrified ceramic material consisting essentially of barium titanate in an amount greater than 96% by weight and stannic oxide in an amount less than 4% by weight.

2,533,141

LIQUID HEATING SYSTEM

Charles Neil Roswell, Chicago, Ill.

Application March 27, 1947, Serial No. 737,676
12 Claims. (Cl. 257—2)



1. A heating system for liquids, comprising: a heat exchanger including passages through which the liquid flows and a heating zone thereabout; means for moving the liquid through the heat exchanger including a pump, conduit means leading from the discharge of the pump to the heat exchanger, discharge conduit means leading from the heat exchanger to a discharge outlet, conduit means leading from the discharge conduit to the intake of the pump, a valve means in said last named conduit means arranged to open automatically at a predetermined pressure; means for supplying steam to the heating zone; means communicating with the discharge conduit and operated by the temperature of the discharge for regulating the amount of steam in inverse ratio; means for withdrawing steam condensate from the heat exchanger including a centrifugal pump below the heat exchanger; means including a valve for regulating the amount of discharge of the centrifugal pump; means controlled by the condensate head on the pump for regulating said valve to provide a substantially constant condensate head on said pump; means for removing substantially all the uncondensible gases from said condensate; and means for returning at least a portion of the condensate to the steam supply for the heat exchanger.

2,533,142

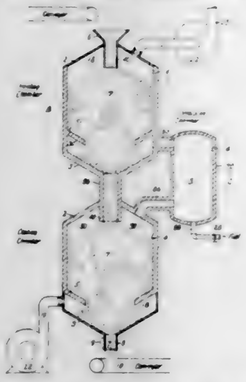
HEAT-TREATING SOLIDS

Percy H. Royster, Raleigh, N. C., assignor to Pickands Mather & Co., Cleveland, Ohio, a co-partnership

Application July 19, 1945, Serial No. 605,861
2 Claims. (Cl. 75—5)

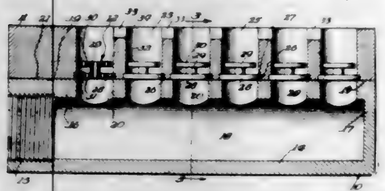
1. Process of indurating in a shaft furnace discrete fluent bodies of moist iron ore fines, which comprises: establishing a gravitationally descending column of previously indurated bodies of oxidic iron ore fines, said column consisting of two gas traversable masses of the bodies disposed one above the other and communicating through an intervening portion of the column of restricted cross-sectional area compared to the cross-sectional areas of said masses and ill-adapted to the flow of gas therethrough; maintaining lower open spaces contiguous to lower free surfaces of each of said masses and gas-collecting spaces of substantial extent above and contiguous with upper free surfaces of said masses; charging a layer of initially substantially unheated raw bodies onto the top surface of the upper mass and discharging a similar volume of indurated bodies from the bottom of the lower mass thereby maintaining said column's height; passing a current of initially substantially unheated air through the lower mass from the lower open space thereof to and

through the gas-collecting space thereof and into a combustion space spacially separate from said column thereby effecting heat exchange between the initially substantially unheated air and the bodies constituting said lower mass; thermally enriching the air in said combustion space, by introducing and burning a fluid combustible therein, to an induration temperature below but approaching the incipient fusion temperature of the oxidic iron ore particles constituting said bodies; passing the thermally enriched air from the combustion space to and through the upper mass from the lower open space thereof to the gas-collecting space thereof thereby effecting heat exchange between the



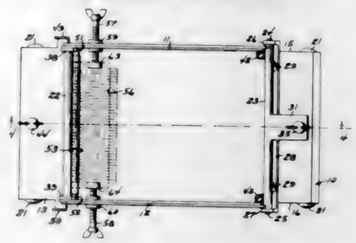
initially highly heated air and the bodies constituting said upper mass; so controlling the rate of flow of the air that the same passes into the gas-collecting space above the upper mass at a temperature above but close to its dew point; so controlling the rate of discharge of indurated bodies from the bottom of the lower mass that the bodies are substantially cool as discharged; and so adjusting the amount of fuel introduced into the combustion space with respect to changes in the rate of flow of the air and in the rate of descent of the bodies that the temperature of the air passing into the lower open space of the upper mass is maintained at the aforesaid induration temperature.

2,533,143
MULTIPLE COMBUSTION CELL GASEOUS FUEL BURNER
Kurt A. Scharbau and Albert Stadler, Rockford, Ill., assignors to Eclipse Fuel Engineering Company, Rockford, Ill., a corporation of Illinois
Application October 20, 1945, Serial No. 623,500
3 Claims. (Cl. 158—104)



1. A burner comprising a manifold embodying a closed bottom portion, provided with means for supplying it with a mixture of air and gas under pressure and having in the top portion thereof a plurality of spaced apart circular outlet ports for the mixture, a one-piece body connected to and overlying the top portion of the manifold, having formed therein a plurality of spaced apart vertically extending cylindrical combustion chambers corresponding in number and diameter to, and in registry with, the outlet ports, and embodying in its bottom annular grooves extending around the lower ends of the combustion chambers, and a plurality of disc-like crosswalls extending across said lower ends of the combustion chambers, having the margins thereof fitting snugly in the annular grooves and resting on the top portion of the manifold, and provided with holes for causing the mixture to enter said combustion chambers in stream form.

2,533,144
CONVERTIBLE COIN ROLLING MACHINE
Max E. Schneider, San Antonio, Tex.
Application December 12, 1947, Serial No. 791,427
6 Claims. (Cl. 93—2)



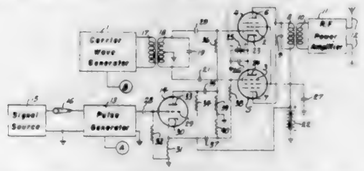
1. A coin rolling machine comprising a stand having an inclined upper surface, a guide frame having sides with aligned longitudinally disposed slots therein pivotally mounted on the stand adjacent the upper end thereof, a coin holding roller carried by the lower end of the guide frame, a transversely disposed roller positioned to coact with the coin holding roller for positioning coins on the stand, and coin clamping means slidably mounted in the slots in the sides of the guide frame whereby a roll of coins secured between the clamping means are rolled upwardly over a wrapper on the said inclined upper surface for positioning the wrapper around the roll of coins.

2,533,145
STEREOTYPE MAT
Arlie William Schorger, Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware
No Drawing. Application April 13, 1948, Serial No. 20,832
6 Claims. (Cl. 22—5.5)

1. A stereotype mat of inter-bonded felted fibers and containing in the body thereof a water insoluble hydroxyalkyl ether of cellulose from ethyl to propyl inclusive, the proportion of said ether being such that there are from 0.25 to 1.5 hydroxyalkyl radicals to each unit of cellulose.

2,533,146
INTELLIGENCE TRANSMISSION SYSTEM
Walter A. Schwalm, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 25, 1945, Serial No. 624,355
2 Claims. (Cl. 250—6)

1. Apparatus for the transmission of pulses, each of said pulses having a rising portion and a falling portion and consisting of energy systematically distributed over a range from low to high frequencies, said apparatus including a pulse generating portion, a pulse distorting portion connected to said generating portion and a pulse transmitting portion responsive to pulses emitting from said pulse distorting portion, said pulse distorting portion including a pulse differentiating circuit whereby a secondary pulse having a positive direction is formed corresponding to the rising portion of each original pulse, and a sec-



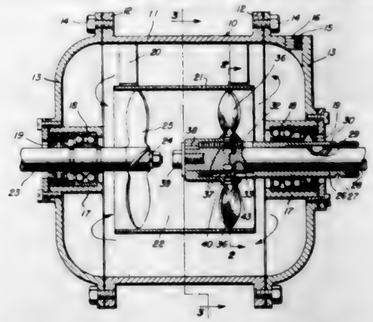
ondary pulse having a negative direction is formed corresponding to the falling portion of each of said original pulses, said pulse transmitting portion including a carrier wave generator and a carrier wave amplifier connected to said generator, said amplifier being inoperative in the absence of said secondary pulses and being responsive to a secondary pulse of positive direction to produce amplified oscillations of a first phase and responsive to a secondary pulse of a negative direction to produce amplified oscillations of an opposite phase.

2,533,147
FOLDING TABLE FOR ATTACHMENT TO VEHICLE DOORS
Angela S. Sparks, Augusta, Ga.
Application October 13, 1948, Serial No. 54,233
1 Claim. (Cl. 311—22)

A collapsible table comprising a pair of spaced brackets, a vertically disposed first section secured to said brackets, a second section having one end hingedly connected to the lower end of said first section, a third section having one end hingedly connected to the other end of said second section, a fourth section having one end hingedly connected to the other end of said third section, a pair of channel members slidably arranged on the sides of said sections for bracing the sections when the table is in extended position, a catch secured to said first section, and a lug secured to said fourth section, there being an aperture in said lug for receiving said catch when the sections are in their folded position.

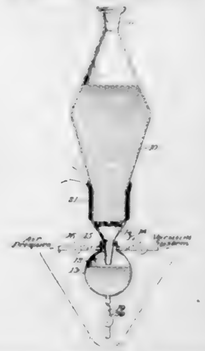
2,533,148
ROTARY HYDRAULIC COUPLING
Robert Spiegel, Formoso, Kans.
Application November 1, 1945, Serial No. 626,100
2 Claims. (Cl. 60—54)

1. In a variable speed transmission, a casing, axially aligned anti-friction bearings mounted in opposite end walls of said casing, a drive shaft extending through one of said bearings into the casing, constant pitch impeller blades mounted on the drive shaft and extending radially therefrom within the casing, a sleeve extending through the other anti-friction bearing into the casing, said sleeve being movable longitudinally in said bearing and having circumferentially spaced elongated longitudinal slots opening through the end thereof within the casing, longitudinally spaced teeth along one side wall of each slot, a driven shaft entering the casing through the sleeve, circumferentially spaced radially extending runner blades mounted in the driven shaft adjacent the inner end thereof, said last named runner blades projecting through the slots



in the sleeve and being rotatable about their longitudinal axes, a spur gear on each of said last mentioned runner blades having meshing engagement with the teeth along the side wall of the slot through which the respective blade extends, an open ended cylinder supported within the casing in spaced relation thereto, said cylinder being concentric with the shafts and in substantial contact with the periphery of the impeller and runner blades and means on the exterior of the casing to shift the sleeve longitudinally and rotate the runner blades on their axes, thereby to alter the pitch thereof.

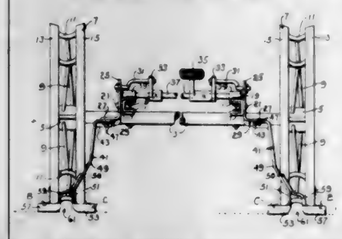
2,533,149
PRECIPITATION PROCESS AND APPARATUS THEREFOR
Louis G. Stang, Jr., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application April 25, 1946, Serial No. 664,957
4 Claims. (Cl. 23—1)



1. In a process in which a chemical reaction is effected in a liquid and the reacted product is filtered through a porous filter medium which is chemically inert to both the reactant liquid and

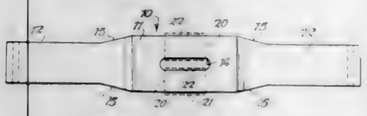
the reacted product, the steps for effecting said process by remotely controllable operations which comprise concurrently positioning said liquid, prior to effecting the said reaction, in contact with the anti-gravity side of said filter medium while applying a gas at super-atmospheric pressure to the gravity side of said filter medium to balance the hydrostatic pressure of said liquid, and after the completion of the said reaction reducing the pressure on the gravity side of said filter medium substantially below said hydrostatic pressure.

2,533,150
WHEEL RIDGE LEVELING DEVICE
Emil Steffen, Adams County, Ind.
Application September 13, 1946, Serial No. 696,909
2 Claims. (Cl. 97—56)



1. In a wheeled vehicle having a supporting member, the combination of a lever mounted on said member for pivotal movement in a vertical plane substantially parallel to the line of motion of the vehicle, and a leveler bar attached to the lower end of said lever and projecting horizontally behind a wheel of the vehicle and in contact with the earth for filling the wheel rut, said leveler bar comprising a relatively wide, thin, flat blade disposed at right angles to the line of motion of the vehicle at substantially a forty-five degree angle to the earth with the lower edge of the blade projecting in the direction of motion of the vehicle so that earth will spread by flowing along the blade and over it.

2,533,151
ANTISKID DEVICE
Adolph K. Stevens, Buffalo, N. Y.
Application December 5, 1947, Serial No. 789,875
7 Claims. (Cl. 152—222)

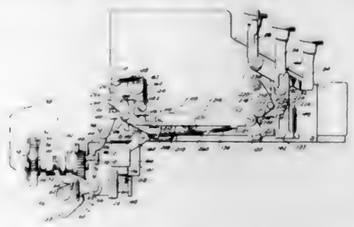


1. An anti-skid device for use with a vehicle tire mounted on a wheelrim, including a strip of flexible material adapted to extend transversely across the tread of a tire, said strip comprising a tread portion and side portions extending from said tread portion along the side walls of the tire, said tread portion having a slot formed therein extending lengthwise of said strip through the same and crosswise of a tire when said anti-skid device is secured thereto, a metal member having a portion held in place between said strip and said tire, and a portion extending along an edge of said strip beyond the tread portion thereof for gripping a slippery pavement, and means engaging the ends of said side portions of said strip to hold the same on the tire.

2,533,152
FISHHOOK EXTRACTOR
Helmar Svenson, Milwaukee, Wis.
Application April 23, 1947, Serial No. 743,421
2 Claims. (Cl. 43—53.5)

2. A fishhook disgorger comprising a handle member, a wire element formed for a portion of its length from its ends into a pair of parallel shanks partially embedded in the end of said handle, the free portion of the wire element terminating in two one and one-half circular parallel bends in turn terminating in an inward loop radial of and just short of the common axis of said circular bends.

2,533,153
CARRIAGE RETURN MECHANISM FOR RECORD MAKING MACHINES
Oscar W. Swanson, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application November 19, 1947, Serial No. 786,826
17 Claims. (Cl. 197—66)

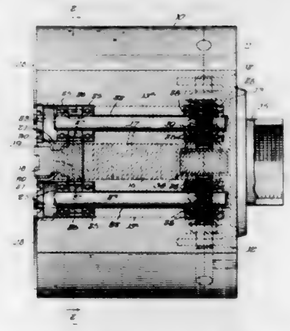


1. In a record making machine, a transversely movable carriage, mechanism for moving the carriage in one direction during a record making operation, power mechanism for imparting return movements to the carriage, two or more independently operable manipulative devices for rendering operative said power mechanism, means common to all said devices and movable thereby for retaining an operated one of said devices in actuated position during the return of the carriage and means operated by said carriage for releasing automatically said devices.

2,533,154
CHUCK CONSTRUCTION
Keith W. Tolliver, Homewood, Ill.
Application April 12, 1949, Serial No. 87,014
10 Claims. (Cl. 279—117)

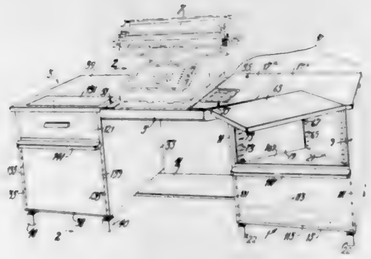
6. A chuck comprising in combination a main body member being a central bore therein and being a plurality of shaft and gear receiving recesses at the opposite end, a cover plate for said body member being a central bore therethrough and having a plurality of shaft and gear receiving recesses therein complementary to the said shaft and gear receiving recesses in the said body member, means whereby the cover plate and the body member are secured together, a movable actuator tube having external gear teeth thereon extending through the rear plate and into the said body member, master jaws in said ways on the main body member, a plurality of longitudinally extending shafts in the said main body journaled in the said main body member and the said cover

plate, angular disposed shafts seated in the recesses in said main body member and said cover plate, gears centrally positioned on said angular disposed shafts in engagement with the actuator tube and worm gears on said shafts at each side



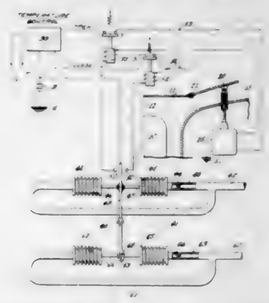
of the centrally positioned gears, the gears at one end of the longitudinal shafts being in engagement with the master jaws and the gears at the opposite ends of said shafts being in engagement with the worm gears on the said shafts.

2,533,155
MACHINE SUPPORTING ASSEMBLY FOR BUSINESS MACHINES
William H. von Hacht, Bronxville, N. Y., assignor to Underwood Corporation, a corporation of Delaware
Application November 16, 1944, Serial No. 563,729
8 Claims. (Cl. 45—6)



1. In a machine supporting and cabinet assembly for business machines comprising a platform for supporting a business machine, means for supporting said platform at a distance from the floor upon which the assembly is placed with a space beneath the platform for the reception of the feet and legs of the operator including a structure for supporting one side of said platform, a cabinet located at the other side of said platform and devices on said cabinet for supporting the adjacent side of said platform; a shelf mounted at the front of the cabinet and extending rearwardly for a substantial distance beyond the front of said platform and extending forwardly beyond the cabinet at an oblique angle thereto toward the position of the operator and means for rigidly attaching at least two sides of said shelf to the forward portion of said cabinet in each of a plurality of vertical positions.

2,533,156
CONTROL OF ENGINE CYLINDER TEMPERATURES
Rudolf N. Wallace, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 31, 1944, Serial No. 561,293
6 Claims. (Cl. 123—41.05)



1. In an aircraft having an air-cooled engine and having means for controlling the flow of cooling air past said engine and thereby controlling the temperature thereof, and a reversible motor for actuating said air flow controlling means, in combination, means directly responsive to the temperature of said engine for normally controlling the operation of said motor in a corrective direction and in a manner solely responsive to the engine temperature, means for containing a fluid pressure, the value of which pressure is characteristic of a condition which affects engine temperature, a secondary anticipatory control system connected to control the operation of said motor in a corrective direction, including means independent of the engine temperature and of any absolute value of said fluid pressure, but responsive solely to a change in such value, for initiating the operation of said anticipatory control system to cause the actuation of said motor in a direction respectively to correct for an anticipated change in the cooling requirements of said engine, and means included in said secondary control system and effective upon the initiation of the operation thereof for preventing actuation of said motor in a respectively reverse direction by said engine temperature responsive means solely during the time said secondary control system is causing the actuation of said motor in a direction to compensate for an anticipated change in the cooling requirements of said engine.

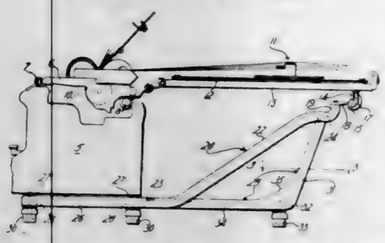
2,533,157
COMBINED FILLING AND VIBRATING DEVICE HAVING AN ELONGATED VIBRATORY BAG MEMBER
Ralph E. Williams, Chicago, Ill., assignor to B. F. Gump Co., a corporation of Illinois
Application February 15, 1945, Serial No. 577,948
1 Claim. (Cl. 226—55)

In a bag packer, a base, an elongated vibratory member having an upper end pivotally supported on said base, a drive for laterally vibrating said member including a power driven member on said base laterally offset with respect to said pivotal support and an actuating link connection between the power driven member and the vibratory member for swinging said vibratory member in an arc about the pivoted upper end thereof, a bag support positioned adjacent to and

above the upper end of the vibratory member, and spaced therefrom, whereby the vibratory member is free to move independently of the bag support, the vibratory member being supported to extend downwardly and outwardly from its pivotal support at an angle toward a bag suspended from the bag support and being positioned to underlie the bag support and a bag suspended therefrom substantially throughout the arc of movement of the vibratory member, whereby gravity is substantially constantly effective to urge a bag suspended on the bag support toward

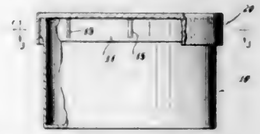
the vibratory member, said vibratory member having a bag engaging portion extending generally from end to end of the bag, whereby the contents of the bag are simultaneously vibrated from end to end of the bag, the angle of the bag engaging portion of the vibratory member being substantially less than the angle of repose, whereby when the bag is released from the bag support it is free to slide gravitally downwardly along and from the vibratory member, the lower end of the vibratory member being formed to permit the bag to move freely therefrom when the bag is released from the bag support.

2,533,158
AUXILIARY FRAME FOR TYPEWRITERS
Harry C. Yaeger, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 5, 1947, Serial No. 789,895
5 Claims. (Cl. 197—126)



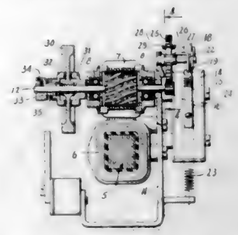
1. An auxiliary frame for supporting a carbon-carrier unit of a manifolding typewriter, said frame comprising a generally rectangular open framework having means for attachment at its forward portion to a low region of the typewriter, said framework defining a plane extending upwardly and rearwardly from the means of attachment to the typewriter, to engage an element of the carbon-carrier unit at an elevated position rearwardly spaced from the typewriter, said auxiliary frame further comprising bracing members disposed diagonally of the open framework to brace it against lateral deflection, and said bracing members meeting at an apex laterally midway of the framework and including an element at said apex for receiving foot means adapted to rest on a desk or like typewriter support.

2,533,159
CONTAINER CLOSURE
Cy J. Yates, Henderson, Ky., assignor to Tri-State Plastic Molding Co., Henderson, Ky., a limited partnership
Application October 1, 1948, Serial No. 52,355
2 Claims. (Cl. 220—42)



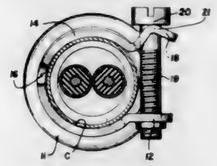
2. A container and closure assembly interlockable by relative rotation comprising, in combination a container having a circular sidewall defining an opening; vertically extending abutment means equally spaced circumferentially around the outer surface of said wall adjacent said opening; a closure for said container opening having a depending circular flange, circumferentially spaced arcuate sections on the inner surface of said flange fitting freely over said abutment means; and circumferentially spaced chordal sections on the inner surface of said flange between said arcuate sections and arranged to wedgingly engage said abutment means upon relative rotation of said closure and container; said chordal sections being equally spaced and equal in number to said abutment means.

2,533,160
ELECTROMAGNETIC RELAY
Arthur R. Young, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application August 19, 1946, Serial No. 691,642
6 Claims. (Cl. 200—92)



1. An electromagnetic relay comprising an electric motor having a rotary shaft with a pinion thereon, a rotary gear meshing with said pinion, a pair of switches, means for actuating the respective switches in response to turning of said second gear by said motor in opposite directions away from a predetermined position, yieldable means for returning said gear to and normally maintaining the same in said predetermined position, a flywheel loose on said motor shaft, a friction clutch coupling said shaft and said flywheel, the latter being rotatable with the driven element of said clutch so as to be adapted to overrun said motor by slippage of the clutch, and means yieldably maintaining said clutch constantly engaged.

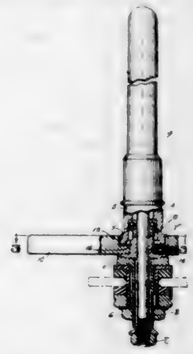
2,533,161
CONNECTOR
Martin D. Bergan, Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application May 26, 1949, Serial No. 95,400
1 Claim. (Cl. 285—6.5)



In a connector of the type having a tubular body adapted to receive a cable, with a rigid ear carried on the tubular body and provided with a screw-threaded hole, a clamping strap having its inner end carried on the body and its outer end free for movement toward the rigid ear, the outer free end being provided with a screw-clearance aperture which is coaxial with the screw-threaded hole; and operating means, for drawing the clamping strap toward the rigid ear, including a headed-clamping screw having a threaded shank mounted through the screw-clearance aperture and threadedly engaged within the coaxially screw-threaded hole of the rigid ear, and also including and being characterized by a bearing-crown, in the form of a longitudinal-crest, provided on the outer free end of the clamp-strap, with said longitudinal-crest disposed outward from the rigid ear, and on both sides of the screw-clearance aperture, as well as along an axis parallel with the axis of the tubular body, and against which a minimum area of the inner surface of the head of the clamping screw has tangential engagement; whereby the screw head rotates with a minimum of friction when drawing the clamping strap toward the rigid ear to grip the cable within the tubular body, and the bearing-crown acts under the force of the tangent screw head to maintain the reaction of the clamping strap substantially coaxial with the screw-threaded hole of the rigid ear, at and for all positions assumed by said screw head and said clamping strap, throughout their range of operation, whether gripping large size or small size cable, by which the threaded shank also rotates with a minimum of friction, as well as freedom from wear, within the screw-threaded hole.

2,533,162
SPINDLE BRAKE
Frank D. Boyden, South Portland, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application September 1, 1949, Serial No. 113,507
8 Claims. (Cl. 57—88)

1. A spindle brake comprising a brake shoe encircling a part of the revolving element of said spindle, means supporting said shoe for swinging movement around the axis of the spindle, said brake shoe having a surface operable to engage said revolving element when swung through a predetermined angle and to release said part

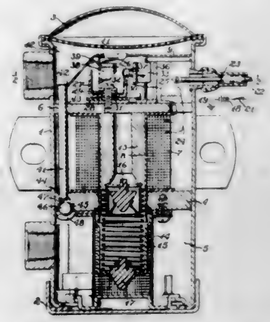


when returned to its normal position, and an operating member for said brake shoe.

2,533,163
DEHYDRATION OF SODIUM SULFIDE
Joseph P. Copes, Easton, Pa., and Clyde McKinley, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 27, 1948, Serial No. 67,572
4 Claims. (Cl. 23—134)

1. Process for dehydrating crystalline sodium sulfide containing water of crystallization, which comprises heating the crystals under reduced pressure while progressively increasing the temperature to 750–850° C. at such a rate as to prevent fusion of the sodium sulfide.

2,533,164
ELECTROMAGNETIC PUMP
John W. Dickey, Newfield, and Norwood S. Trout, Jr., Elmira, N. Y., assignors to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application May 12, 1947, Serial No. 747,528
2 Claims. (Cl. 172—126)



1. In an electromagnetic reciprocating motor, a cylindrical casing, a non-magnetic cylinder, partitions in the casing supporting the cylinder co-axially therein, a piston of magnetic material slidably mounted in the cylinder, a spring urging the piston toward one end of the cylinder, a

solenoid between said partitions adapted when energized to retract the piston and cock the spring, and means for energizing the solenoid when the piston reaches the end of its spring-actuated stroke including a permanent magnet fixed at one end on one end of the piston, an armature shaped to conform to the external surface of the cylinder pivotally mounted to swing in a horizontal plane toward and from the cylinder, and so located that the permanent magnet comes into substantial registry therewith at the end of the spring-actuated stroke of the piston, a spring urging the armature away from the cylinder, and contacts closed by movement of the armature toward the cylinder, in which said contacts include a movable contact mounted on said armature and a fixed contact adapted to cooperate therewith; a flexible U-shaped bracket carrying the fixed contact and means for mounting the bracket including a screw traversing the bottom thereof, the bottom of said bracket being normally bent convexly, so that adjustment of the mounting screw flexes the bracket.

2,533,165

CONTAINER FOR INJECTION MEDICINES

Hans Christian Hagedorn, Gentofte, Denmark, assignor to Nordisk Insulinlaboratorium, Gentofte, Denmark, a corporation of Denmark
Application April 4, 1947, Serial No. 739,520
In Denmark March 22, 1946
2 Claims. (Cl. 128—272)

1. A container for injection medicines, comprising a hollow body at least a portion of which is an integral synthetic plastic molding provided with an opening in its wall, and a perforatable diaphragm of elastically compressible material extending across said opening and having its periphery embedded in the plastic container-wall to form a closure, said diaphragm when in position being elastically flexed whereby there are created in that portion of one of its faces exposed in said opening internal compressive forces tending to seal any opening made in the diaphragm.

2,533,166

PROCESS FOR POLYMERIZING WATER-SOLUBLE POLYACRYLAMIDES AND POLY-ALPHA-SUBSTITUTED ACRYLAMIDES

Giffin D. Jones, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 16, 1945, Serial No. 622,704
8 Claims. (Cl. 260—89.7)

1. A process for preparing water-soluble gelatin-compatible polymers having a gold number of less than 10^{-3}, which consists in catalytically polymerizing, at a temperature not substantially exceeding 40° C., an amide of the class consisting of the amides of acrylic, α-alkyl-, α-aryl-, α-aralkyl-, and α-halo-substituted acrylic acids, and the N-monomethyl and N-monomethyl (β-ethanol) derivatives of said amides, in the liquid phase, while dissolved in a solvent of the class consisting of alcohols of 1 to 3 carbon atoms, dioxane, dimethyl-formamide and chloroform; and recovering the polymer from the reaction mixture.

2,533,167

METHOD AND APPARATUS FOR APPLYING ADHESIVE TO FIBROUS WEBS

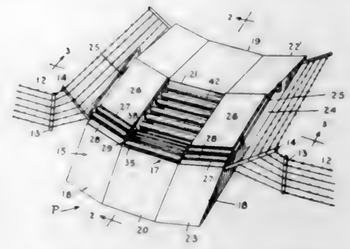
Peter Kilham, Plainville, Mass., assignor to American Reenforced Paper Company, Attleboro, Mass., a corporation of Massachusetts
Application June 27, 1947, Serial No. 757,511
13 Claims. (Cl. 117—65)

6. The method of applying a liquid adhesive to a web of fibrous material which comprises supporting the web adjacent and above but out of contact with the exposed surface of a pool of liquid adhesive, forcing a gas, inert as respects said liquid adhesive, under pressure upwardly from below the surface of said pool to form and collect on said surface a mass of relatively large fragile bubbles, and passing the web through the bubbles to cause them to burst and deposit their liquid adhesive on the web.

2,533,168

ANIMAL GUARD

William A. Letson, Kansas City, Mo., assignor of one-half to John G. Sheldon, Kansas City, Mo.
Application July 14, 1948, Serial No. 38,732
4 Claims. (Cl. 256—14)

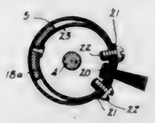


1. An animal guard for use in connection with a pen to permit of a motor vehicle being driven over the guard into and out of the pen, comprising an elongated unitary concrete slab, said slab including outer elongated strips and an inner elongated strip, the wheels of the motor vehicle travelling longitudinally over the outer strips, the outer elongated strips having end portions and intermediate portions, the end portions having upper faces vertically inclined in a direction longitudinally of the outer strips, the intermediate portions having upper faces which are substantially horizontal in a direction longitudinally of the outer strips and transversely vertically inclined about axes parallel with the longitudinal axes of the outer strips and the direction of travel of the motor vehicle over the strips, metal plates mounted upon the inclined faces of the intermediate portions and held correspondingly inclined by such faces and having their upper faces smooth so that animals will slip thereon, the inner longitudinal strip having a recess formed in its intermediate portion adjacent to the intermediate portions of the outer strips, and spaced animal obstruction elements mounted within the recess.

2,533,169

ROTARY VACUUM CLEANER BRUSH

Charles H. MacFarland, Cleveland, Ohio, assignor to The Scott & Fetzer Company, Cleveland, Ohio, a corporation of Ohio
Application January 22, 1949, Serial No. 72,120
4 Claims. (Cl. 15—183)



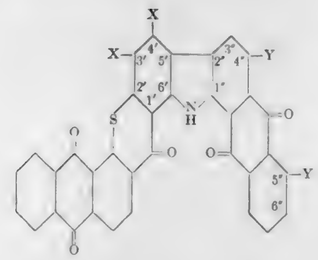
1. A vacuum cleaner brush comprising a hollow cylinder having a helical slot extending through less than half its circumference, a bristle strip comprising looped bristles and a sheet metal bristle retainer of channel form crimped upon said bristles and positioned in said helical slot and having integral flanges along opposite edges thereof that engage and conform to the exterior of the cylinder, fastening members extending through the cylinder wall and engaging with said flanges exteriorly of the cylinder, and spaced resiliently expansible bands within the cylinder to which the inner ends of the fastening members are attached.

2,533,170

VAT DYES OF THE ANTHRIMIDE CARBAZOLE THIOXANTHONE TYPE

Fritz Max, Staten Island, N. Y., and David I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Original application November 16, 1945, Serial No. 629,196. Divided and this application March 18, 1948, Serial No. 15,718
4 Claims. (Cl. 260—316)

1. Vat dyes capable of dyeing textile fibers orange to red-brown shades of excellent fastness properties and being of the following constitution:



in which X is a member of the class consisting of hydrogen, halogen, alkyl, aryloxy, alkoxy, and Y is a member of the class consisting of hydrogen, alkoxy, amino, and a benzoyl amino radical.

2,533,171

PROCESS FOR PREPARATION OF BENZOTHIOPHENE ANTHRAQUINONES

Fritz Max, Staten Island, N. Y., and Wilhelm Schmidt-Nickels, Little York, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 6, 1948, Serial No. 53,148
4 Claims. (Cl. 260—330)

1. In a process for preparing a benzothiophene anthraquinone by ring closure of an ortho-2-dibenzothenoyl benzoic acid, the improvement which comprises heating said acid with a mixture of phosphorus pentoxide and ortho-phosphoric acid containing from one-third to three mols of phosphorus pentoxide per mol of phosphoric acid.

2,533,172

HYDROLYSIS OF VINYL ETHERS

Clyde McKinley, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application June 28, 1946, Serial No. 680,090
10 Claims. (Cl. 260—601)

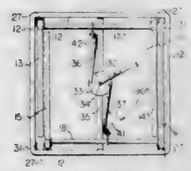
1. The method of hydrolyzing ethylenically unsaturated ethers of the formula:

in which R′ and R^2 stand for a member of the group consisting of hydrogen and alkyl, aryl and aralkyl radicals and R stands for a member of the group consisting of alkyl, aryl and aralkyl radicals, which comprises contacting such ethers in vapor phase in admixture with steam with a solid dehydration acid catalyst selected from the group consisting of molybdic oxide and tungstic oxide having an alkali ion concentration less than 0.1% at an elevated temperature.

2,533,173

FOLDING LEG TABLE WITH ACTUATOR MECHANISM

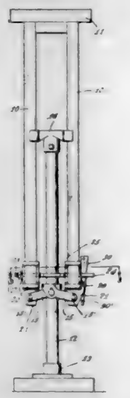
Harry A. Mitchell, Sycamore, Ill., assignor of one-half to Einer W. Dahlgren, Rockford, Ill.
Application March 26, 1947, Serial No. 737,229
1 Claim. (Cl. 311—85)



A folding-leg table comprising a table top, legs at opposite sides of the table mounted on the underside of the table top to swing as a unit between folded and unfolded positions, a metal strap extending across the table at the under side thereof and fixed to the table, a disk member mounted on the under side of said strap centrally thereof to rotate about a center axis, a hand lever fixed to the disk member, link members each pivotally connected at one end to the disk member at a side thereof diametrically opposite from the other, means pivotally connecting the opposite end of each link member to a leg unit at one side of the table and in a manner to swing such legs between said po-

sitions upon rotative movement of the disk member in opposite directions by operation of the handle, said link members and connecting means being arranged to releasably lock the legs in the unfolded position when the disk member is operated to carry the pivotally connected ends of the link members beyond a dead-center relation, and a cam face projection on the top side of the disk arranged to engage the strap and be displaced with respect thereto during the final movement of the disk member when it is operated to move the leg units to the folded position and to yieldingly engage an edge of the strap when the leg units have been moved to said folded position whereby to yieldingly lock the leg units in such position.

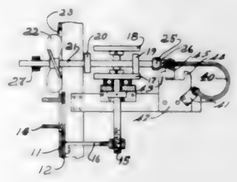
2,533,174
SHORE
Albert Negovan, Chicago, Ill., assignor to Baker-Roos, Inc., Indianapolis, Ind., a corporation of Indiana
Application January 30, 1945, Serial No. 575,308
4 Claims. (Cl. 248—354)



1. In an adjustable shore, two telescopically associated shore parts, the outer of said shore-parts comprising a pair of spaced, parallel members between which the inner shore-part is located, a pair of dogs carried by said outer shore-part and adapted to grip the inner shore-part, a tie-member extending between and through said parallel members in the plane of said inner shore-part and provided with an opening loosely receiving said inner shore-part, means on one end of said tie-member for limiting outward movement of the adjacent parallel member relative to said tie-member, the other end of said tie member being provided with an opening, and a wedge disposed in said opening and cooperating with the parallel member adjacent it for forcing said members toward each other.

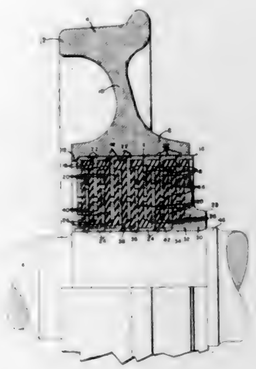
2,533,175
AIR CONTROLLING GRILLE
Alwin B. Newton, Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 3, 1947, Serial No. 720,081
15 Claims. (Cl. 236—1)

2. An apparatus for controlling the admission of air to a room comprising a member having an air passage therein associated with a source of supply, a first means to restrict said passage, a second means substantially constantly driven by air supplied to said passage, a first driven member, a second driven member, a third means to transmit drive from either of said members to said first means, a fourth means to operatively associate said second means with said first member under a first set of temperature conditions



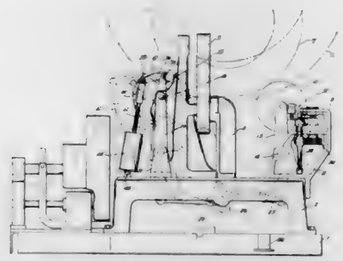
and to operatively associate said second means with said second member under a second set of temperature conditions, said second means being adapted to drive said first member in one direction when associated therewith and to drive said second member in an opposite direction when associated with the second member whereby the movement of said first means is reversed for different sets of temperature conditions.

2,533,176
WHEEL
Alfred H. Oelkers, New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 8, 1947, Serial No. 746,707
2 Claims. (Cl. 295—11)



1. A railway wheel and axle assembly comprising a wheel, having a hub with an axial bore, a resilient unit press fitted into the bore, an axle extending through the center of the unit in press fit engagement therewith, said unit comprising a plurality of axially spaced discs with integral flanges at their outer peripheries and projecting from one side thereof, adjacent flanges seating edge to edge and all of said flanges tightly engaging said hub, a plurality of plates alternated with said discs, each plate having an axial opening receiving the axle and having an integral collar at one side thereof extending through an axial aperture in an adjacent disc and tightly embracing the axle, the collars of adjacent plates seating edge to edge and being spaced a substantial distance radially inward of the inner peripheries of said discs, each plate having its outer periphery spaced a substantial distance radially inward from the adjacent flange, an imperforate mass of flowable resilient material between the discs and plates and bonded thereto, said material having portions extending axially between said flanges and the outer peripheries of said plates and completely filling the spaces therebetween, said material having segments extending through the apertures in said discs and completely filling the spaces between said collars and the inner peripheries of said discs, and said material having sections completely filling the spaces between the plates and discs, said discs having axial holes paced a substantial distance from the inner peripheries thereof, said plates having axial holes spaced a substantial distance radially inward from the outer peripheries thereof and disposed radially outward of the holes in said discs, said material at said portions being wholly confined by and between adjacent portions of said flanges, discs and plates and at said segments being wholly confined by and between adjacent portions of said collars whereby during relative radial movement between said plates and discs said segments and portions of said material are stressed in compression and cause the material to flow substantial distances radially between the plates and discs, before flowing into the holes, the flange of each disc overlapping the adjacent plate and the collar of the latter extending through the aperture in the former whereby the loads on all of the parts of each disc and respective parts of the adjacent plate is substantially equalized.

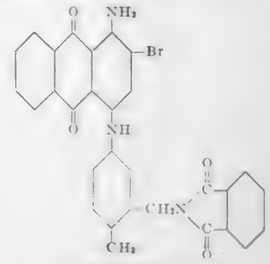
2,533,177
EJECTOR FOR WRAPPING MACHINES
Paul Pierce, Jr., La Grange, Ill., assignor to Pierce Wrapping Machine Company, Chicago, Ill., a corporation of Illinois
Application October 10, 1946, Serial No. 702,430
9 Claims. (Cl. 242—6)



1. In a machine for wrapping tires, a pair of drums for supporting a tire in upright position, means to adjust the space between the drums for varying sizes of tires, an ejector located between the drums and means connected to the ejector and operable as the drums are adjusted so that the ejector always lies below the lowermost point on the tire, and means to raise the ejector to lift the tire from its position on the drums.

2,533,178
α-(PHTHALIMIDOMETHYL - ANILINO)-ANTHRAQUINONES AND PROCESS OF PREPARING THE SAME
David I. Randall and Edgar E. Renfrew, Jr., Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 1, 1948, Serial No. 24,678
11 Claims. (Cl. 260—326)

2. An anthraquinone dyestuff characterized by the following formula:



2,533,179
TOOL AND HOLDER THEREFOR
Joseph M. Redinger, Johnston, R. I., assignor to Thurston Manufacturing Company, a corporation of Rhode Island
Application May 3, 1949, Serial No. 91,199
1 Claim. (Cl. 279—83)

In combination a tool holder having a cylindrical socket, a key projecting into said socket and spaced from the entrance end thereof, a tool having a cylindrical shank to enter said socket and have a rotatable bearing therein, said shank being recessed to provide two flat surfaces each extending as a cord of the cylindrical shank, one of the recesses being also spaced from the ends of the shank to provide abutment shoulders of a distance apart substantially the length of said key, one of said abutment shoulders having a notch therein of a size to permit said key to pass endways therethrough on insertion of the shank into the socket whereupon the shank may be relatively rotated to bring the shoulder at one side of the notch into a position to be engaged by the end of the key and prevent removal of the shank from the socket and a threaded stud in the wall of the socket movable to project its end into the socket at a location to engage the other of said recesses and prevent relative return rotation for alignment of said notch and key.

2,533,180
ENGINE CONTROL MECHANISM
John W. Rhodes, Indianapolis, Ind., assignor to J. D. Adams Manufacturing Company, Indianapolis, Ind., a corporation of Indiana
Original application December 18, 1943, Serial No. 514,743, now Patent No. 2,443,084, dated June 8, 1948. Divided and this application February 9, 1948, Serial No. 7,213
2 Claims. (Cl. 123—98)

1. In combination with an internal combustion engine having a throttle, means biasing said

throttle toward open position, a pair of elements associated with said throttle and independently movable to limit the extent to which said means opens the throttle, speed-governing mechanism responsive to engine-speed and operatively connected to the first of said elements, said governing means including a control member adjustable to vary the position of said first element for any given engine speed, means biasing the second of said elements in a direction to close said

throttle and effective to overcome the throttle-opening effort of said first-named biasing means, a manually operable member operatively connected to the second of said elements through a lost-motion connection and operable to move said second element in a throttle-opening direction against the effort exerted by said last named biasing means, and mechanism for relieving the throttle-closing effort exerted on said second element by said last named biasing means.

2,533,181

PREPARATION OF COLORED METALLO-α-OXIMINO KETONE COMPLEX IMAGES

Donald E. Sargent, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 8, 1949, Serial No. 103,757

2 Claims. (Cl. 95—88)

1. The process of producing α-oximino-ketone complex images in a photographic element which comprises treating a silver halide image in such element with an aqueous alkaline solution of a compound capable of forming silver salts less soluble than silver halides and containing a thioamide grouping capable of isomerizing to an isothioamide grouping and a structure yielding α-oximino-ketone compounds upon nitrosation and selected from the class consisting of α-keto-methylene and 1- and 2-hydroxy naphthalene structures, nitrosating the resulting silver salt with aqueous nitric acid and treating such silver salt with a soluble metal salt selected from the class consisting of soluble ferrous and cobaltous salts to convert the nitrosated silver salt image into an intensely colored metallo-α-oximino-ketone complex image in situ with the original silver halide image.

2,533,182

PREPARATION OF COLORED METALLO-α-OXIMINO KETONE COMPLEX IMAGES

Donald E. Sargent, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 8, 1949, Serial No. 103,758

3 Claims. (Cl. 95—88)

1. The process of depositing a metallo-α-oximino-ketone complex image in situ with a silver halide image contained in a photographic element which comprises treating a silver halide image in such element with an aqueous alkaline solution of a complex metal compound containing a thioamide group capable of isomerizing to an isothioamide group and capable of forming silver salts less soluble than silver halides, said complex metal compound being obtained by nitrosating a compound containing a thioamide group capable of isomerizing to an isothioamide group and yielding α-oximino-ketone structures upon nitrosation, and having a structure selected from the class consisting of α-keto methylene and 1- and 2-hydroxy naphthalene structures, and reacting the resulting nitrosated compound with a soluble metal salt selected from the class consisting of soluble ferrous and cobaltous salts.

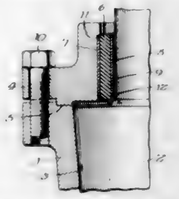
2,533,183

RESILIENT MOUNTING

Edward G. Schmidt, Western Springs, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois

Application December 21, 1944, Serial No. 569,221

4 Claims. (Cl. 251—97)



1. In a resilient mounting, the combination including a casing, a longitudinally movable member seated within the said casing, a cap therefor, a resilient member including a rubber-like material interposed between said cap and said longitudinally movable member, the said resilient member being mounted for shear deflection and bearing against annular shoulder portions oppositely disposed on the said cap and movable member, the said resilient member comprising tubular means in telescopic relation and with relieved ends for frictionally supporting said rubber-like material against substantial axial movement.

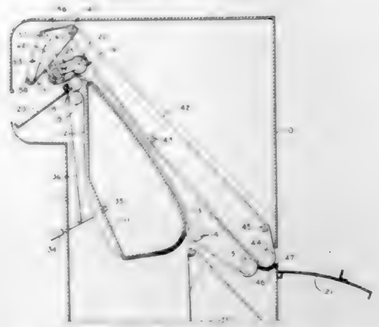
2,533,184

SHEET MATERIAL DELIVERY MEANS

Frederick O. Trump, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application December 29, 1945, Serial No. 638,320

7 Claims. (Cl. 271—64)



2. In a device for delivering sheet material, the combination of means including a belt by which said material is conveyed, guiding means for said belt shiftable to at least two positions and control means to change the position of said guiding means, supplementary conveying means including a series of tapes driven in synchronism with said conveying means, said conveying means being shiftable to different positions in one of which it engages and alters the direction of delivery for said material, and in the other of which it has no contact nor effect thereon.

2,533,185

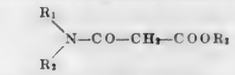
ALKYL MALONAMATES AS AZO COUPLING COMPONENTS IN DIAZOTYPE LAYERS

Henry C. Unkauf, Endicott, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 22, 1947, Serial No. 781,505

4 Claims. (Cl. 95—6)

1. Diazotype photoprinting material comprising a light sensitive layer sensitized against coupling prior to development thereof, comprising a light sensitive diazo compound and a coupling component of the following general formula:



wherein R_1 and R_2 are respectively members of the group consisting of hydrogen, alkyl, hydroxyalkyl, and aralkyl residues, and R_3 is a member of the group consisting of alkyl and aryl radicals.

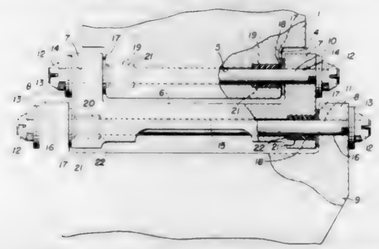
2,533,186

RUBBER BUSHING FOR LINK MOUNTED BRAKES

Carl E. Bricker, Akron, and Donald D. Neff, Uniontown, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application August 30, 1948, Serial No. 46,914

2 Claims. (Cl. 188—73)



1. A spot type brake combination including a rotary disc, a C-shaped housing surrounding a periphery of the disc, hydraulic means carried by the housing and adapted to clamp on opposite sides of the disc, a link, a stationary bracket, means pivotally securing one end of the link to the housing, means pivotally securing the other end of the link to the bracket, said link allowing movement of the housing to and from the side of the disc, said combination being characterized by rubber bushings in said pivotal securing means and functioning torsionally to effect clearance between the disc and the housing upon release of the hydraulic means, and metal means carried by the pivotal securing means and providing metal to metal contact when the rubber bushings yield radially in absorbing the stopping torque on the disc.

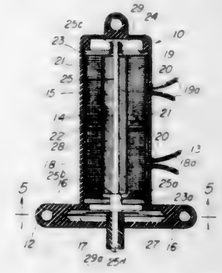
2,533,187

DOUBLE-ACTING SOLENOID

John B. Cataldo, Annandale, and Kenneth E. Vroom, Summit, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application February 21, 1948, Serial No. 10,164

3 Claims. (Cl. 175—337)



1. A solenoid assembly comprising a casing; an "on" coil disposed within said casing adjacent one end thereof; and "off" coil having a diameter substantially equal to that of said "on" coil disposed within said casing adjacent the other end thereof and coaxially with said "on" coil; a plunger of magnetic material movable within said coils responsive to the respective magnetic fluxes thereof from a position in contact with one end of said casing and out of contact with the other end thereof to a position in contact with the opposite end of said casing and out of contact with the other end thereof, said plunger having a central axial bore therethrough; a shaft of non-magnetic material positioned for axial movement within the bore of said plunger and movable beyond the respective ends of said casing, said shaft having a shoulder thereon beyond each end of said plunger to limit movement of said shaft within the bore of said plunger and to cooperate with said plunger for movement of said shaft thereby; and a snap spring having two positions of stable equilibrium connected to said shaft, said snap spring being positioned to hold one shoulder of said shaft against the end of said plunger adjacent thereto when that end of said plunger is not in contact with its adjacent end of said casing, and to hold the other shoulder of said shaft against the end of said plunger adjacent thereto when that end of said plunger is not in contact with its adjacent end of said casing whereby solenoid actuated movement of said plunger in the direction of the shaft shoulder in contact therewith moves said snap spring past dead center as said plunger contacts the end of said casing, and whereby said snap spring continues movement of said shaft until said snap spring reaches a position of stable equilibrium.

2,533,188

GARMENT PRESSING MACHINE

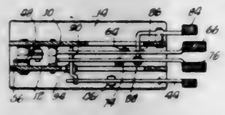
Salvatore T. De Vitto, Chicago, Ill., assignor to Society Brand Clothes, Inc., a corporation of Illinois

Application May 4, 1945, Serial No. 591,946

3 Claims. (Cl. 38—15)

1. In a machine for pressing garments and the like, the combination of two heads, means comprising a lever for moving one of said heads into and out of pressure relationship to the other, said heads being at opposite faces of the material to be pressed, means for ejecting steam through the

face of one of said heads into contact with the material, means for subjecting the material to a suction effect through the face of the other of said heads for withdrawing the steam from the material, said suction means comprising valve means and a second lever alongside of said first named lever and operable in one direction to operate said valve means to apply the suction effect and urged in the other direction to operate said valve means to terminate the application of the suction effect, and means comprising a third lever in cross relationship to said other two levers adapted by engagement with said first and second levers to give said second lever a movement in the direction for applying a suction effect on said material when said first named lever is moved in the direction for bringing the heads into pressure relationship to each other and adapted to permit said second lever to move in the direction for terminating the application of a suction effect on said material when said first named lever is moved in the direction for separating said heads.



2,533,189
HYDRAZO ESTERS

Paul J. Flory, Kent, and Norman Rabjohn, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application January 16, 1946, Serial No. 641,651
8 Claims. (Cl. 260—482)

1. As a new composition the compound having the structural formula

$$R-\left[O-\overset{O}{\overset{\|}{C}}-NH-NH-\overset{O}{\overset{\|}{C}}-O-R'\right]_x$$

wherein R is a polyvalent radical of the group consisting of hydrocarbon, oxahydrocarbon and thiahydrocarbon radicals and the corresponding nitro- and halogen-substituted radicals, R′ is a monovalent radical of the group consisting of hydrocarbon, oxahydrocarbon and thiahydrocarbon radicals and the corresponding nitro- and halogen-substituted radicals, the oxygen atoms being connected to carbon atoms in R and R′, and x is a small whole number between 2 and 5 inclusive.

2,533,190
OARLOCK SOCKET

Percy M. Griffin, Rensselaer, N. Y.; Loretta L. English executrix of said Percy M. Griffin, deceased

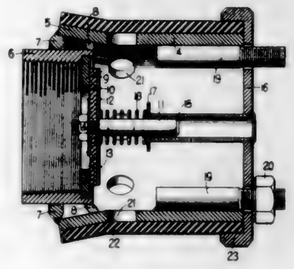
Application May 26, 1948, Serial No. 29,390
7 Claims. (Cl. 9—26)

1. In an oarlock socket, the combination with a base element provided with means adapting it to be secured to the inclined side of a rowboat, of a second element provided with a socket therein adapted to receive an oarlock, means, including a longitudinally-extending bearing on said base element and a cylindrical member on said second element pivotally connecting said elements together and providing rotative movements of said second element about an axis extending in a direction at right angles, to the axis of said socket and fore-and-aft of said boat when said base element is secured to said boat; whereby the angular relation of said socket to the vertical may be adjusted irrespective of the inclination of the side of said boat; and means for securing said elements together in adjusted relation.

2,533,191
WATER DISTRIBUTING DEVICE FOR MIXERS

Gebhard Jaeger, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application August 26, 1946, Serial No. 692,949
6 Claims. (Cl. 299—133)

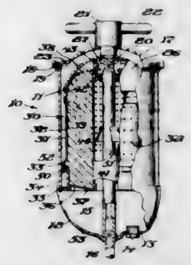


4. A liquid distributing device for mixers or the like comprising a hollow body, means for connecting the body to a source of supply of liquid under pressure, said body having outlets in its side wall spaced from an end of said body, said body having an enlarged outwardly diverging portion extending from said outlets to said end of said body to provide a continuous smooth surface between said outlets and said end, a flexible elastic hollow member snugly fitting around said body on which it is disposed and extending over said diverging portion around which it is stretched so that it will tightly grip said portion, said member extending over the outlets and to the said end of said body so as to normally cover said outlets and the diverging portion of the body, said member being adapted to flex under pressure of liquid escaping through said outlets to emit an outwardly diverging liquid spray under pressure at said end of said body.

2,533,192
SEAL FOR FILTER CARTRIDGES

Walter V. Kennedy, Central Falls, R. I., assignor to Fram Corporation, a corporation of Rhode Island

Application June 10, 1948, Serial No. 32,239
6 Claims. (Cl. 210—183)



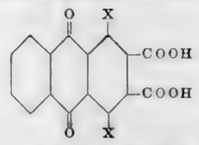
1. A cartridge for a filter having a casing comprising an element of filtering material of a shape corresponding to the shape of the casing and carrying radially extending abutment means along its outer surface, an O-ring of compressible material about said element adjacent said abutment and rollable along the surface of the element against said abutment, said element being of a diameter along the portion engaged by said O-ring smaller than the inner diameter of the casing which receives said element and said O-ring being of a cross section normally greater than the differences in said diameters so as to be compressed out of its normal shape and rolled against said abutment when the element is inserted in a filter casing.

2,533,193
2.3-DERIVATIVES OF 1.4-DIHALOANTHRAQUINONES

Fritz Max, Easton, Pa., and David I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 3, 1947, Serial No. 739,250
2 Claims. (Cl. 260—376)

1. Compounds of the following formula:



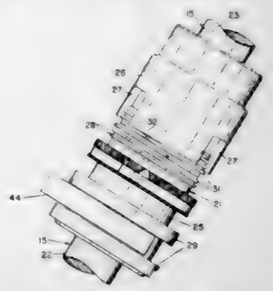
in which both Xs are the same and are selected from the class consisting of chlorine and bromine.

2,533,194
MULTIPLE DISK TYPE CLUTCH

William E. Melegan, Cleveland, and Albert W. Eidman, South Euclid, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application February 19, 1947, Serial No. 729,582
4 Claims. (Cl. 192—69)

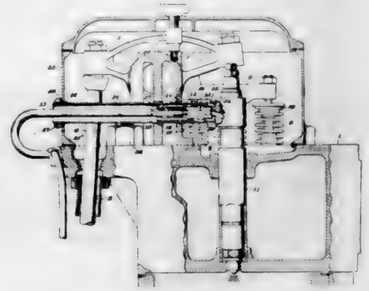
1. In a clutch having friction discs with lugs positioned about a slidably mounted sleeve splined to a shaft and means for compressing said friction discs to lock them to said sleeve, a friction disc receiving member from which said discs are disengageable comprising; a cylindrical member positioned about a power transmitting shaft aligned with said sleeve mounting said friction discs having a slot for receiving said lugs, said cylindrical receiving member having a lug receiving face inclined to said friction discs for directing said lugs into said slot.



2,533,195
FUEL OIL LEAKAGE DETECTOR FOR DIESEL ENGINES

Lewis W. Metzger, Doylestown, Pa., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania

Application September 23, 1946, Serial No. 698,787
4 Claims. (Cl. 123—198)



1. In a Diesel engine having a nozzle holder, and horizontal injection tubing extending through an internal portion of the engine for connection to the holder, and a horizontal sleeve also extending through said hollow portion and disposed about the fuel injection tubing, the inner end of said sleeve being attached to the nozzle holder and its outer end being open and extended to a point outside the engine, the injection tubing extending axially through said open end of the sleeve whereby leakage of fuel from the connection may be observed.

2,533,196
METHOD OF PRODUCING PIGMENTED RESINS

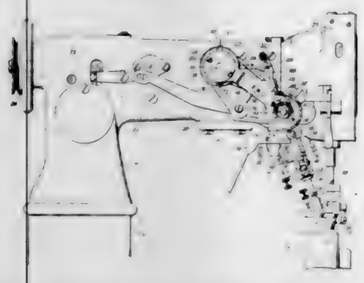
Henry A. Pace, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application August 7, 1944, Serial No. 548,503
1 Claim. (Cl. 260—41)

The method of producing pigmented resinous pearls which comprises polymerising a diallyl

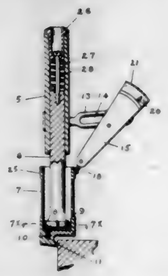
ester of an alkyl dibasic acid by heating the ester at a temperature between about 70° C. and about 75° C. for about one hour until the ester has been converted to the pre-gel stage, adding a pigment to the thickened resin, adding the pigmented resin to a suspension medium comprising a water solution of at least one member of the group consisting of sodium bisulfite and sodium nitrate and having a density substantially equal to the density of the pigmented resin, continuously stirring the suspension at a temperature between 60° C. and 70° C., until polymerization of the pigmented resin is substantially complete.

2,533,197
TRIMMER MECHANISM FOR SEWING MACHINES
Berthold P. Pinkvoss, Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 6, 1947, Serial No. 726,909
17 Claims. (Cl. 112—125)



1. In a sewing machine having stitch-forming mechanism including a movable needle, actuating mechanism for operating said needle, a trimmer associated with said stitch-forming mechanism including a movable knife, actuating mechanism for operating said knife, and a device rendered effective by centrifugal force and included in one of said actuating mechanisms for automatically controlling the frequency of movement of one of said movable members.

2,533,198
EDGE FINDER
James G. Radtke, Rochester, N. Y.
Application January 26, 1945, Serial No. 574,651
15 Claims. (Cl. 33—169)

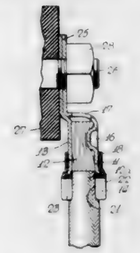


10. In an instrument for indicating the location of a workpiece on a jig boring machine, said instrument comprising a shank, means attached to the shank for contacting the edge of a workpiece and indicating the location of the edge of the workpiece with reference to the axis of the machine spindle, said means comprising a thimble having opposed ends, a pivot by which said thimble is connected to one end of the shank, said thimble having a straight work contacting edge on one end thereof that engages the edge of the workpiece, the other end of the thimble being adapted to move further than said first end of the thimble when the thimble swings on its pivot, a multiplying indicator rotatably mounted on said shank, said indicator reacting on said other end of the thimble for the purpose of indicating the position of said first end of the thimble with reference to the axis of the machine spindle.

2,533,199
HYDRAULIC SEAL FOR PULP REFINING MILLS
Cyrus E. Roberson, Hoosick Falls, N. Y., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y., a corporation of New York
Application January 9, 1947, Serial No. 721,116
2 Claims. (Cl. 286—9)

1. In stuff treating apparatus having a stator and a rotor and in which the rotor is provided in its end face with an annular groove to contain a sealing fluid, an annular plate fixed to the end face of the rotor with its inner end projecting into said groove and spaced from the bottom of the groove, an annular adjusting plate slidably mounted upon the stator for adjustment in an axial direction relative to said first-named plate and having in its end face a recess, a U-shaped sealing ring one leg of which is mounted within said recess in juxtaposition to said first-named plate and the other leg of which extends inwardly beneath the inner end of said first-named plate in spaced relation thereto and thence extends upwardly into said groove, said last-named leg being of less area than said groove and being spaced from the groove walls and from said first-named plate to provide a tortuous path for sealing fluid contained in said groove when the same is forced outwardly towards said first-named plate and towards the first-named leg of said sealing ring by the centrifugal force developed by the rotor when in operation, and means for introducing a sealing fluid into said groove as required.

2,533,200
PARTIALLY INSULATED ELECTRICAL TERMINAL
Julian Rogoff, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application September 15, 1945, Serial No. 616,552
2 Claims. (Cl. 173—269)



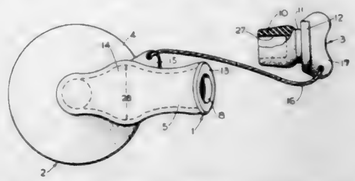
1. An electrical connector comprising a hollow soft metal body suitable for indentation with a free end having an opening for the insertion of the bared end of an insulated conductor, a remaining end of the metal body provided with an attaching means for mounting the metal body to a terminal, said attaching means having an axis of mounting substantially normal to the axis of the metal body, whereby the metal body may be attached in any position about the axis of the attaching means, said metal body being covered only at its free end with insulating material secured thereto, the bared end of the conductor adapted to be indented to the uncovered portion of the metal body.

2,533,201
FLUID SEALING DEVICE
John H. F. Stewart, Detroit, Mich.
Application January 11, 1946, Serial No. 640,516
7 Claims. (Cl. 267—1)

1. An annular axially compressible spring comprising an annular base member of small axial height and a plurality of one-piece wire spring elements secured to the base at spaced locations around its periphery, each spring element having a flat base portion curved to extend along an arc of the base member and having its free ends

curved back at an acute angle to overlie the base portion.

2,533,202
INFLATING TUBE ASSEMBLY
Mark J. Sturtevant, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application December 12, 1945, Serial No. 634,532
3 Claims. (Cl. 150—8)



3. An inflating tube assembly comprising a tube molded from rubber and the like embodying a curved hollow stem adjacent one end of which is integrally formed a flange, an outwardly flared portion at the free end of the stem, a flattened portion intermediate the ends of the stem, and an inwardly projecting lip portion formed internally of the flared portion, and a plug embodying a butt portion of tapered configuration the progressive circumferential dimensions of which are slightly greater than the corresponding dimensions of the flared portion of the stem which receives the plug, a groove extending about the periphery of the plug adjacent the larger end of the butt portion for engagement with the lip portion in the flared portion of the stem, and a recess formed in the smaller end of the plug.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

628,987. **IMMUNE LACTOGLOBULIN.** August Holm, New Brunswick, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York. Filed Nov. 15, 1945. Published Dec. 5, 1950. Class 167—78. No Drawing. 12 pages of specification.

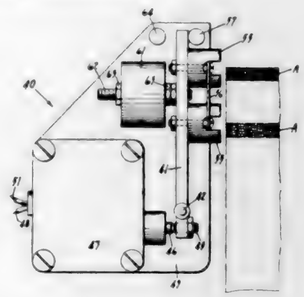
An oral-administration preparation for conferring passive immunity upon human beings to whooping cough, diphtheria, smallpox (and/or other diseases) is obtained by: (I) actively immunizing a cow (or other bovid) with H. pertussis vaccine, C. diphtheriae antigen, vaccinia virus vaccine (and/or other non-infectious antigens corresponding to the diseases against which the passive immunity is to be conferred); (II) collecting the milk of the immunized sow; and (III) concentrating the lactoglobulin fraction thereof. The immunization of the cow is carried to such extent that the potency of the concentrated lactoglobulin fraction of the milk is sufficient, on oral administration to a normal human being in ingestible amount, to confer upon the blood serum of that being the ability to react positively to the antigen used for immunizing the cow. The immune lactoglobulin is present in the whey portion of the milk. This whey portion may be employed as the medicinal agent, either in liquid or dried form; or the whey portion may be fractionated (by any of the methods employed for the concentration of the immune globulin of sera) for concentration of the immune lactoglobulin therein.

An example of the concentration is as follows:

The immune milk is centrifuged to separate the cream; and 3.8 liters normal hydrochloric acid is slowly added with constant stirring to 76.5 liters of the immune skim milk (the pH then falling to about 4.6). The granular casein precipitate formed is removed by filtration through a coarse filter, 69.9 liters of immune whey being recovered. This is adjusted to a pH of about 7.1 with 2750 cc. of normal sodium hydroxide solution; and 16.9 kg. of ammonium sulfate is added to bring the solution to 40% saturation and to a pH of about 6.9. The crude immune-lactoglobulin precipitate is separated by filtering or centrifuging, and the excess mother liquor is removed from the precipitate by absorption with filter (or other absorptive) paper. The precipitate (about 525 g.) is dissolved in water to make an approximately 3% solution, and filtered clear; and to 8220 cc. of this crude immune-lactoglobulin solution, adjusted to a pH of about 7 with sodium hydroxide, is added 5060 cc. of saturated ammonium sulfate solution, to bring the solution to 35% saturation. The resulting precipitate is separated by filtering or centrifuging, and excess moisture is removed by absorption and pressing; the precipitate is then dialyzed until salt-free; and the resulting solution of concentrated immune lactoglobulin is then freeze-dried.

As an alternative method of recovering the immune-lactoglobulin the whey (obtained above) may be neutralized and ethanol added to a concentration of 25% at −5° C., the precipitate separated and redissolved in water and reprecipitated at 20% ethanol concentration at −5° C. This gives higher yields than the ammonium sulfate fractionation.

671,609. **MACHINE FOR CONVEYING METALLIC ARTICLES.** Robert T. Chatterton, Chappaqua, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey. Filed May 22, 1946. Published Dec. 5, 1950. Class 271—88. 2 sheets of drawings. 13 pages of specification.



The disclosure relates to an apparatus to control the lowering or raising of a pack elevator as sheets of paramagnetic material are added to or taken from the top of the pack, in order to maintain the top sheet of the pack within limits of elevation.

The pack of sheets A is supported on a horizontal platform which is moved vertically by an electric motor through gears, sprockets and sprocket chains. Normally open electric switch **47** energizes the motor momentarily to lower the platform (when sheets are delivered to the stack) when the movable switch element **46** closes the switch. Arm **41** is pivoted at **42**, and at the upper end of arm **41** is mounted at least two magnets **55**, the poles of which are vertically disposed adjacent the path of travel of the stack. The magnets are arranged so that closely adjacent poles are of like polarity. Also mounted on the upper end of arm **41** is an adjustable counterweight **61** to bias the magnets away from the stack. Stops **57** and **64** limit the oscillation of arm **41**.

In operation, starting with the top of the stack at the midpoint of the lower magnet **55** and the switch open, sheets are added to the pack by conventional delivery means until the top of the stack is adjacent the midpoint of the upper magnet. The attractive force of the magnets on the sheets at that location is sufficient to move the arm **41** towards the stack, closing switch **47** and energizing the motor to lower the platform. The decreased gap between magnets and stack intensifies the attraction so that the switch **47** is held closed until the top of the stack is approximately at the midpoint of the lower magnet at which location of the stack the magnetic attraction is insufficient to hold the arm **41** close to the stack. The return movement of arm **41** against stop **64** opens the switch, halting further lowering of the platform until the cycle is repeated. By suitable modification the device can also control the lifting of a stack as sheets are fed from the top thereof.

672,342. **METHODS OF PHOTOCOPYING DOCUMENTS AND THE LIKE.** Alan Kingston Soper, Wealdstone, England. Filed May 25, 1946. Published Dec. 5, 1950. Class 95—5. No drawing. 7 pages of specification.

Commercial documents, typewritten matter, and ordinary printed matter are duplicated by a method wherein an unhardened light sensitive silver salt emulsion on a temporary support is exposed to the typewritten or printed matter, processed to form a relief image which is then pressed into contact with another support which is to form a permanent support, and the temporary support is stripped off. The exposed emulsion is preferably processed to form a relief image by developing in a developer which hardens the emulsion where silver is developed and then dissolving away the unhardened emulsion, for example by washing with plain water. The emulsion is preferably a gelatino silver halide emulsion.

The purpose of this method is to be able to obtain an image on extremely thin paper since it is extremely difficult to directly sensitize thin paper on a commercial scale. An advantage of this method is that the final image, if a positive copy, shows little tendency to curl owing to the absence of a continuous layer of colloid on the surface as in the usual types of photographic supports.

The relief image may also be formed by subjecting the emulsion to the well-known etch-bleach reversal treatment in which an image is developed in the layer, the portions of the layer containing the image are removed by means of an etch-bleach solution and the remainder of the layer is fogged and developed to silver, thus giving a positive image from a positive original.

The sensitive emulsion is held on the temporary support by a dry-stripping layer, these materials being well known in the photographic art as shown, for example, in U. S. Patent 2,266,435. Suitable dry-stripping substances are gum dammar and gum sandarac, with or without an added proportion of wax, but wax itself and some water-soluble gums may not be suitable.

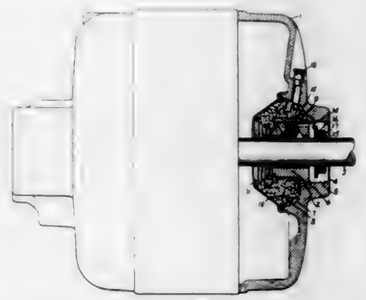
The exposure can be made by ordinary contact or in a camera or by reflex copying. The silver salt emulsion may be an ordinary negative emulsion or an emulsion which develops directly to a positive. In its simplest form the emulsion contains the developing agent such as pyrogallol or hydroquinone and is developed merely by immersion in plain alkali such as a 12 per cent solution of sodium carbonate.

The following example illustrates the process:

Example

An unhardened autopositive gelatino silver bromide emulsion coated on a gum dammar stripping layer on a paper of about 135 grams weight per square metre is exposed in contact with a sheet of typewritten matter, the light passing first through said typed matter. The image is then developed in a caustic hydroquinone developer to harden the gelatine where silver develops. The said paper is then immersed in hot water to wash-out the unhardened gelatine. It is next placed in cold water and while therein, it is placed into contact with a thin sheet of typewriting paper and the two sheets withdrawn from the cold water. They are then placed between blotting paper and passed through pressure rollers, then dried and the temporary support dry-stripped off.

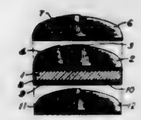
731,829. **LUBRICANT SLINGER.** Lawrance W. Wightman, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York. Filed Mar. 1, 1947. Published Dec. 5, 1950. Class 286—5. 1 sheet of drawings. 10 pages of specification.



Discloses a fluid slinger for a rotatable shaft having an annular slinging wall **14** and a flared wall **15**, the two walls being joined at their outer extremities and spaced apart at their inner peripheries to form a housing. Both walls are apertured to receive the shaft but are not directly secured to the shaft. Located in the cavity formed by the walls is annular ring **16** formed of flexible material and spring washer **17**. Prior to mounting on the shaft, the inside diameter of ring **16** is smaller than the outside diameter of shaft **3**. Spring **17** presses ring **16** against wall **14** and the upper portion of wall **15**. When mounted on the shaft, the deflection of ring **16** forces the ring into tight engagement with walls **14** and **15** and spring **17** maintains ring **16** in a close spring press fit with shaft **3**.

766,431. **SINGLE- AND MULTILAYER THIN FILMS FOR OPTICS.** Raymond W. Boydston, Philadelphia, Pa. Filed Aug. 5, 1947. Published Dec. 5, 1950. Class 88—1. 2 sheets of drawings. 17 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



This disclosure has for its main objectives the provision: (*a*) of optics supporting thereon a single layer or film or multiple layers or films having different refractive indices so as to make possible the desired reflection and transmission of light without absorption; and (*b*) of a film of zinc sulfide sufficiently hard to withstand hard wear such as the repeated rubbing of a pumice-containing eraser across the surface with a force of 2.0 to 2.5 pounds being continuously applied.

It has been discovered that by proper processing, zinc sulfide films, of the order of a wave length of light in thickness, can be made which are insoluble in water or other inorganic solvents, are relatively impervious to long contact with dilute hydrochloric acid, and can even undergo vigorous rubbing with cheesecloth, all of which treatments have almost instantaneously damaged conventionally made non-durable films of zinc sulfide.

If desired, the zinc sulfide layer can be combined with one or more layers of material having a lower index of refraction in order to secure efficient, controllable and preassigned beam splitter reflectances and/or medium to very high reflectances. A suitable substance for this purpose is magnesium fluoride which has an index of refraction of 1.38.

The process of manufacturing the durable, hard zinc sulfide films consists of the following steps:

1. Carefully clean the optical surface to be covered with the coating or film.

2. Place the optical blanks in stainless steel jigs and put them into a vacuum coating machine, baking the blanks therein for between 30–60 minutes using about 1000 watts for heating power.

3. Turn off heater for a few minutes. Then start up machine again and evaporate zinc sulfide by the well-known crucible filament method onto the optical blank.

4. After this coating operation, the coated optics are aged for about 96 hours outside of the vacuum chamber under normal room conditions.

5. Finally, the coated optics are rapidly heated in a furnace to 600° to 650° F. for about one-half hour, after which the heat is turned off and the optics are allowed slowly to return to room temperature.

6. If desired, multiple layers of zinc sulfide and magnesium fluoride may be deposited alternately, the aging and final furnace baking steps being deferred until after all layers have been deposited and the optics otherwise finished except for these last two steps.

59,762. **PREPARATION OF ITACONONITRILE.** Harry W. Coover, Jr. and Newton H. Shearer, Rochester, N. Y. Filed Nov. 12, 1948. Published Dec. 5, 1950. Class 260—465.8. No drawing. 6 pages of specification.

A process is disclosed for preparing itacononitrile which comprises reacting an alkali metal cyanide with an α-halomethylacrylonitrile in an anhydrous solvent diluent at an elevated temperature.

Alpha-chloromethylacrylonitrile can be prepared as disclosed by Berthet, Bull classe sci Acad roy Belg, 27, 212–28 (1941). In addition, the applicants give a specific example for preparing α-bromomethylacrylonitrile by pyrolyzing α-acetoxy-α-bromomethylpropionitrile by passing it together with nitrogen through a hot tube containing Pyrex Raschig rings at 470° C.

The anhydrous solvent diluents which can be employed advantageously are exemplified by 1,4-dioxane, ethylene glycol monomethyl ether, methyl alcohol, etc. The temperatures employable in the process can range advantageously from 50° to 150° C. although higher and lower temperatures can also be employed.

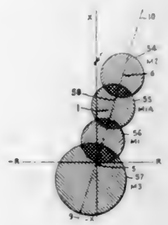
The itacononitrile prepared by this process can be homopolymerized or copolymerized with one or more unsaturated monomers employing peroxy catalysts (and activating agents if desired) at temperatures such as from 40° to 130° C. and utilizing such polymerization processes as the en masse (bead) method, the solution method, or the emulsion or suspension in aqueous media method.

The following is a typical example of the method of preparing itacononitrile and a copolymer thereof with acrylonitrile:

Example.—A mixture of 5 grams of powdered potassium cyanide, 14.6 grams of α-bromomethylacrylonitrile and 40 cc. of dry dioxane was refluxed for 2 hours under efficient stirring and then filtered. The filtrate was distilled and the itacononitrile was collected at 73°–75° C. at 3 mm. of Hg pressure. Two grams of this product, 4 grams of acrylonitrile, 0.055 gram of ammonium persulfate and 0.1 gram of sodium bisulfite were placed in 45 cc. of distilled water. The polymerization started immediately and was completed after several hours at 50° C. The white polymer was filtered, washed and dried.

Other unsaturated monomers which can be copolymerized with itacononitrile include butadiene, styrene, maleic anhydride, vinyl propionate, vinyl acetate, α-methacrylic acid, acrylamide, diethyl fumarate, vinyl chloride, methyl acrylate, methyl α-methacrylate, β-cyanoethyl acrylate, etc. Such copolymers can be spun into fibers, molded, prepared as latex-like dispersions, etc.

135,345. **RELAY ARRANGEMENT FOR PROTECTING ELECTRIC POWER SYSTEMS.** Albert R. Van C. Warrington, Stafford, England, assignor to General Electric Company, a corporation of New York. Filed Dec. 28, 1949. Published Dec. 5, 1950. Class 175—294. 1 sheet of drawings. 10 pages of specification.

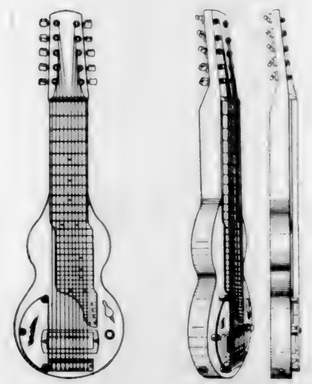


This application discloses a protective system for tripping a circuit breaker at a point **5** to protect a section of a power transmission line, the impedance characteristic of which may be represented as a portion of the line **58** between points **5** and **6** on an impedance diagram having reactance as the ordinant X and resistance as the abscissa R. A group of mho relays, **M2**, **M1***a*, **M1** and **M3**, are provided for individually tripping the associated circuit breaker in their respective areas of relay actuation indicated in the drawing by circles **54**, **55**, **56** and **57**. These circles together cover a narrow band extending along the impedance characteristic. Since the areas of actuation of relays **M2** and **M3** reach into adjacent transmission line sections, tripping actuation by these two relays is subjected to a time delay to permit prior tripping of other circuit breakers serving as primary protection for these adjacent line sections.

DESIGNS

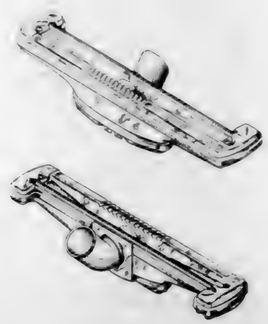
DECEMBER 5, 1950

161,075
STRINGED MUSICAL INSTRUMENT
Elbern H. Alkire, Easton, Pa.
Application April 18, 1949, Serial No. 2,098
Term of patent 14 years
(Cl. D56—1)

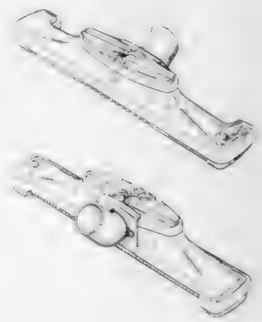


The ornamental design for a stringed musical instrument, as shown and described.

161,076
VACUUM CLEANER NOZZLE OR SIMILAR ARTICLE
Oliver L. Allen, Riverside, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application December 13, 1947, Serial No. 143,137
Term of patent 14 years
(Cl. D9—2)



161,076—Continued



The ornamental design for a vacuum cleaner nozzle or similar article, as shown.

161,077
FRONT FOR AN OPHTHALMIC MOUNTING
Doris A. Atwood, West Newton, Mass.
Application January 24, 1949, Serial No. 440
Term of patent 14 years
(Cl. D57—1)

The ornamental design for a front for an ophthalmic mounting, as shown and described.

161,078
FRONT FOR AN OPHTHALMIC MOUNTING
Doris A. Atwood, West Newton, Mass.
Application January 24, 1949, Serial No. 441
Term of patent 14 years
(Cl. D57—1)

The ornamental design for a front for an ophthalmic mounting, as shown and described.

161,079
FRONT FOR AN OPHTHALMIC MOUNTING
Doris A. Atwood, West Newton, Mass.
Application January 24, 1949, Serial No. 442
Term of patent 14 years
(Cl. D57—1)

The ornamental design for a front for an ophthalmic mounting, as shown and described.

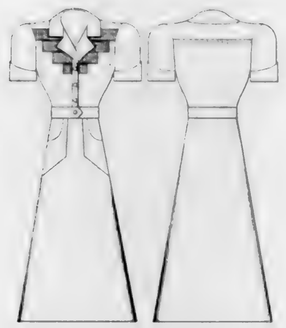
161,080
BARBECUE GRILL
A. Baker Barnhart, New York, N. Y., assignor to Modern Carpet Sweeper Co., Inc., Brooklyn, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,391
Term of patent 3½ years
(Cl. D81—10)

The ornamental design for a barbecue grill, as shown and described.

161,081
SHUFFLEBOARD GAME TABLE
Roy Bazelon, Chicago, Ill.
Application March 2, 1949, Serial No. 1,164
Term of patent 3½ years
(Cl. D34—5)

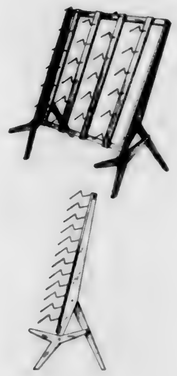
The ornamental design for a shuffleboard game table, substantially as shown and described.

161,082
DRESS
Oscar A. Berman, New York, N. Y.
Application October 20, 1949, Serial No. 5,593
Term of patent 14 years
(Cl. D3—26)



The ornamental design for a dress, as shown and described.

161,083
HAT DISPLAY STAND
Sol Bernstein, New York, N. Y., assignor to Miller Bros. Hat Co., Inc., New York, N. Y., a corporation of New York
Application March 2, 1950, Serial No. 8,289
Term of patent 14 years
(Cl. D80—9)

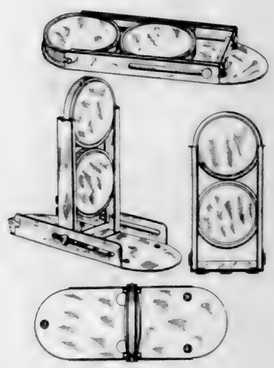


The ornamental design for a hat display stand, substantially as shown.

161,084
COMBINED AIR SUCTION AND THREAD TRIMMING MACHINE
Joseph Blaeker, Brooklyn, N. Y.
Application April 25, 1949, Serial No. 2,236
Term of patent 3½ years
(Cl. D55—1)

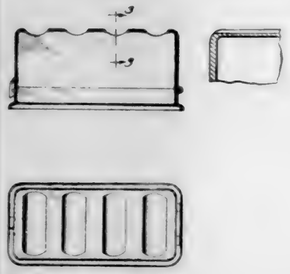
The ornamental design for a combined air suction and thread trimming machine, substantially as shown.

161,085
REFLECTOR SIGNAL
Clark M. Bolser, Cedar Falls, Iowa, assignor to The Bolser Corporation, Cedar Falls, Iowa, a corporation of Iowa
Application February 4, 1950, Serial No. 7,734
Term of patent 14 years
(Cl. D72—1)



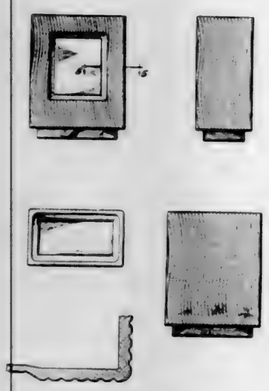
The ornamental design for a reflector signal, substantially as shown.

161,086
CONTAINER
Brown Bolté and Robert R. Dixon, New Canaan, Conn.
Application March 9, 1948, Serial No. 144,998
Term of patent 7 years
(Cl. D58—12.6)



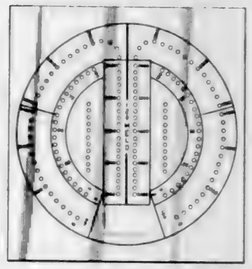
The ornamental design for a container, as shown.

161,087
VASE OR SIMILAR ARTICLE
Roland L. Buhrig, Santa Ana, Calif.
Application October 30, 1948, Serial No. 149,398
Term of patent 7 years
(Cl. D29—28)



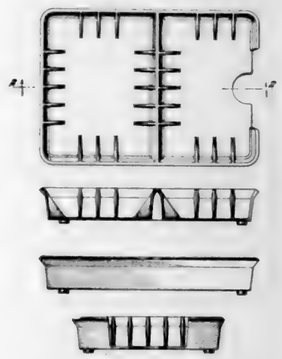
The ornamental design for a vase or similar article, substantially as shown.

161,088
CANASTA SCOREBOARD
Joseph D. Cacciarelli, Nutley, N. J.
Application March 16, 1950, Serial No. 8,566
Term of patent 14 years
(Cl. D34—5)



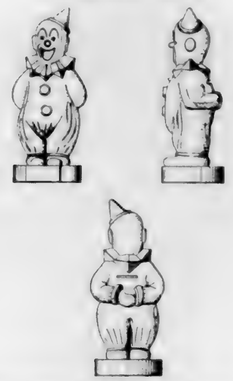
The ornamental design for a canasta scoreboard, substantially as shown.

161,089
CANASTA CARD TRAY
Francesco Collura, New York, N. Y.
Application December 7, 1949, Serial No. 6,471
Term of patent 7 years
(Cl. D34—13)



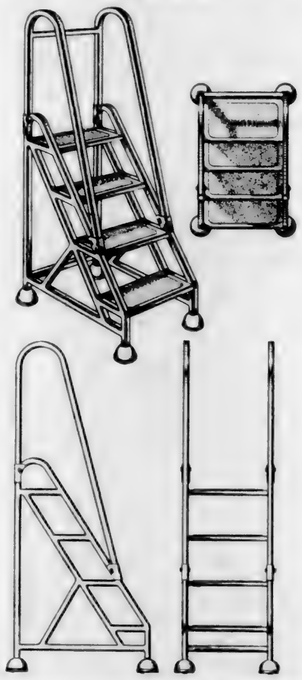
The ornamental design for a canasta card tray, substantially as shown.

161,090
TOY BANK
Lawrence Ezra Cooke, New York, N. Y.
Application June 1, 1949, Serial No. 2,981
Term of patent 3½ years
(Cl. D34—11)



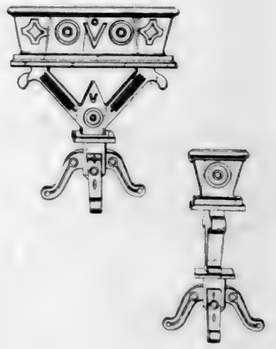
The ornamental design for a toy bank, substantially as shown.

161,091
STEPLADDER OR THE LIKE
Roy A. Cramer, Kansas City, Mo.
Application February 3, 1950, Serial No. 7,690
Term of patent 14 years
(Cl. D15—8)



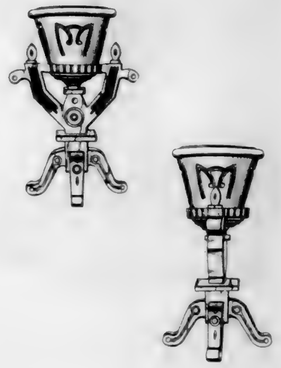
The ornamental design for a stepladder or the like as shown.

161,092
COMBINED FLOWERPOT AND STAND THEREFOR
Romigio Dottavio, Pittsfield, Mass.
Application October 4, 1948, Serial No. 148,960
Term of patent 3½ years
(Cl. D35—3)



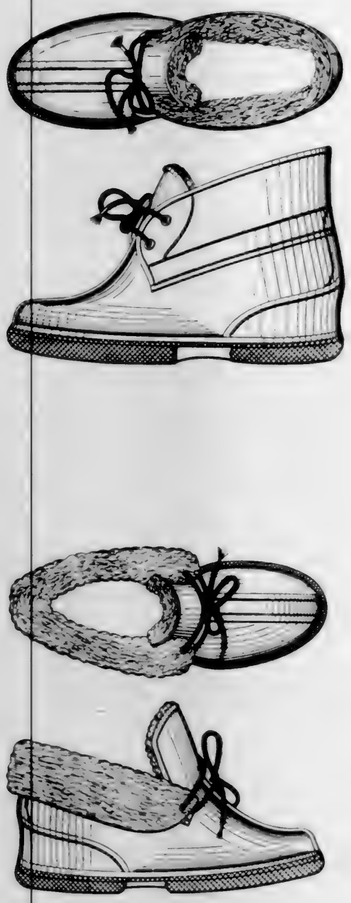
The ornamental design for a combined flowerpot and stand therefor, as shown.

161,093
COMBINED FLOWERPOT AND STAND THEREFOR
Romigio Dottavio, Pittsfield, Mass.
Application October 4, 1948, Serial No. 148,961
Term of patent 3½ years
(Cl. D35—3)



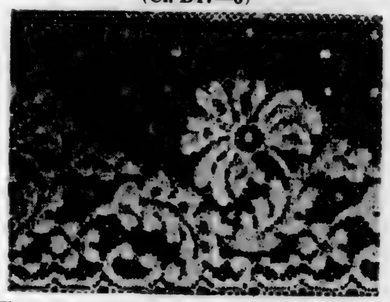
The ornamental design for a combined flowerpot and stand therefor, as shown.

161,094
RUBBER BOOT
James F. Eldon, Melrose, Mass., assignor to Converse Rubber Corporation, Malden, Mass., a corporation of Massachusetts
Application July 1, 1950, Serial No. 10,914
Term of patent 14 years
(Cl. D7—4)



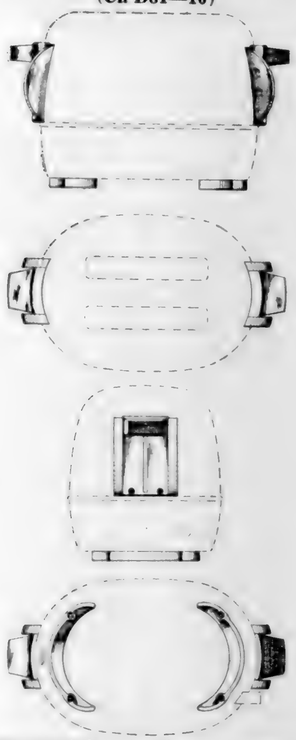
The ornamental design for a rubber boot, substantially as shown and described.

161,095
LACE
Herbert Farnsworth, Norwalk, Conn., assignor to Isaac Zendman, III, New York, N. Y.
Application December 15, 1949, Serial No. 6,632
Term of patent 7 years
(Cl. D47—6)



The ornamental design for a lace, as shown and described.

161,096
ELECTRIC TOASTER
Maurice F. Fitzgerald, Winsted, Conn., assignor to Son-Chief Electrics, Incorporated, Winsted, Conn., a corporation of Connecticut
Application March 15, 1950, Serial No. 8,542
Term of patent 14 years
(Cl. D81—10)

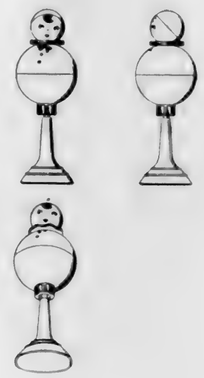


The ornamental design for an electric toaster, substantially as shown and described.

161,097
SLIPPERSOCK
Gustave Frankel, Milwaukee, Wis., assignor to Holeproof Hosiery Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 30, 1950, Serial No. 12,414
Term of patent 14 years
(Cl. D47—7)

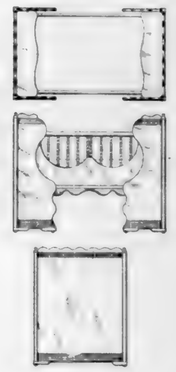
The ornamental design for a slippersock, substantially as shown.

161,098
SUCTION CUP RATTLE
Benjamin Gelardin, Bronx, N. Y.
Application April 19, 1950, Serial No. 9,339
Term of patent 7 years
(Cl. D34—15)



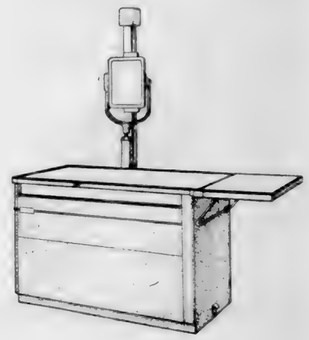
The ornamental design for a suction cup rattle, as shown.

161,099
CHILD'S CRIB
Nicholas Genovese, Brooklyn, N. Y.
Application June 29, 1949, Serial No. 3,634
Term of patent 14 years
(Cl. D5—5)

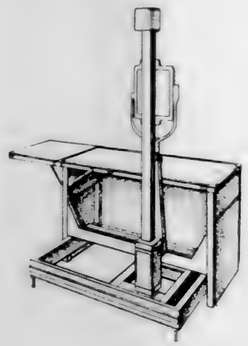


The ornamental design for a child's crib, as shown.

161,100
X-RAY APPARATUS
Edwin R. Goldfield and Robert J. Stava, University Heights, Ohio, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 24, 1950, Serial No. 7,435
Term of patent 14 years
(Cl. D61—1)



161,100—Continued



The ornamental design for X-ray apparatus, as shown.

161,101
SHOE
Mollie Gordon, Philadelphia, Pa., assignor to Reuben Gordon Shoe Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 29, 1950, Serial No. 10,252
Term of patent 3½ years
(Cl. D7—7)

The ornamental design for a shoe, substantially as shown.

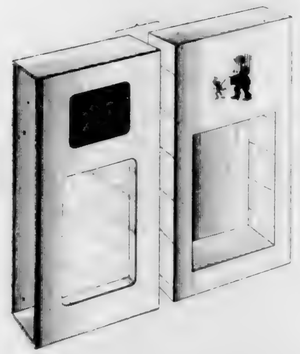
161,102
SHOE HEEL
Francis Nicholas Grasberger, Lynchburg, Va.
Application June 1, 1949, Serial No. 2,984
Term of patent 14 years
(Cl. D7—5)

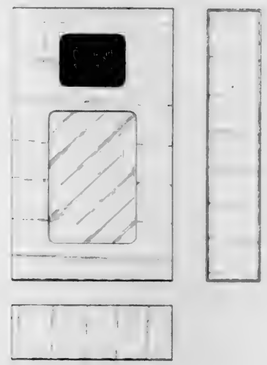
The ornamental design for a shoe heel, as shown and described.

161,103
SHOPPING CART
Arthur V. Hansa, West Los Angeles, Calif.
Application April 4, 1949, Serial No. 1,793
Term of patent 3½ years
(Cl. D14—3)

The ornamental design for a shopping cart, substantially as shown and described.

161,104
CONTAINER FOR BOOKS OR SIMILAR ARTICLES
Bennet B. Harvey and Joseph D. Landes, Jr., Chicago, Ill., assignors to Rand McNally & Company, a corporation of Illinois
Application July 30, 1949, Serial No. 4,218
Term of patent 14 years
(Cl. D58—12.6)



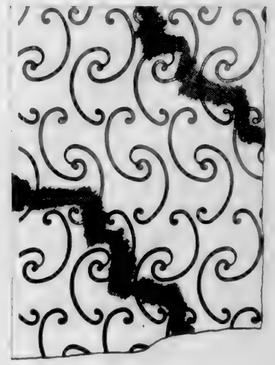


The ornamental design for a container for books or similar articles, as shown and described.

161,105
HAND TRUCK FOR VACUUM CLEANER AND ACCESSORIES
Joseph G. Haworth, Los Angeles, Calif.
Application July 11, 1947, Serial No. 140,222
Term of patent 7 years
(Cl. D14—3)

The ornamental design for a hand truck for vacuum cleaner and accessories, substantially as shown.

161,106
JACQUARD FABRIC
Julius A. Hirsch, Chicago, Ill.
Application May 31, 1950, Serial No. 10,268
Term of patent 14 years
(Cl. D92—1)



The ornamental design for a jacquard fabric, as shown and described.

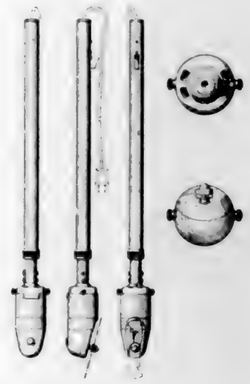
161,107
RECEPTACLE FOR FIRE EXTINGUISHING GRENADE
Carl F. Hoelzel, Kansas City, Mo., assignor to Superior Products, Incorporated, Kansas City, Mo., a corporation of Missouri
Application October 31, 1949, Serial No. 5,802
Term of patent 14 years
(Cl. D16—2)

The ornamental design for a receptacle for fire extinguishing grenade, substantially as shown and described.

161,108
TOILET SEAT
Belle A. Kandarian, Fresno, Calif.
Application May 12, 1950, Serial No. 9,896
Term of patent 14 years
(Cl. D4—5)

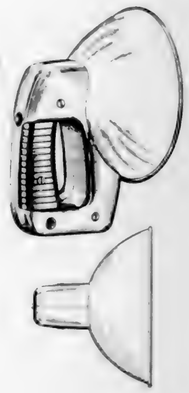
The ornamental design for a toilet seat, as shown.

161,109
PORTABLE GRASS TRIMMER
Bert F. Keiper, East Orange, N. J.
Application October 22, 1949, Serial No. 5,646
Term of patent 14 years
(Cl. D40—1)

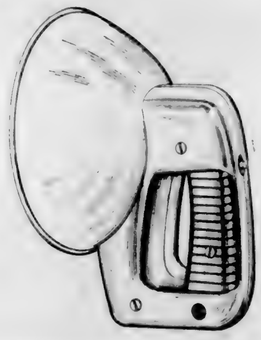


The ornamental design for a portable grass trimmer, substantially as shown and described.

161,110
PHOTOGRAPHIC FLASHLIGHT APPARATUS
Frederick G. Knowles, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 17, 1950, Serial No. 10,605
Term of patent 14 years
(Cl. D61—1)

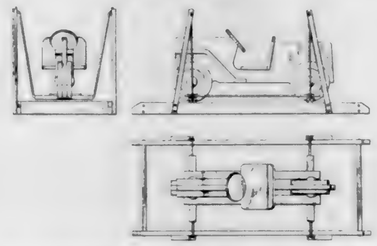


161,110—Continued



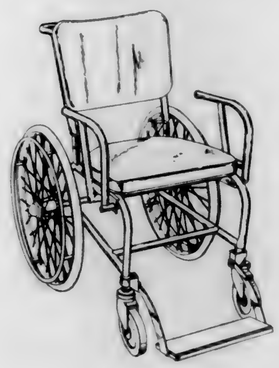
The ornamental design for a photographic flashlight apparatus, as shown and described.

161,111
SWING
Henry C. Kregger, Compton, Calif.
Application November 29, 1949, Serial No. 6,309
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a swing, as shown and described.

161,112
WHEEL CHAIR
William A. Linquist, Minneapolis, Minn.
Application January 19, 1950, Serial No. 7,317
Term of patent 14 years
(Cl. D15—1)



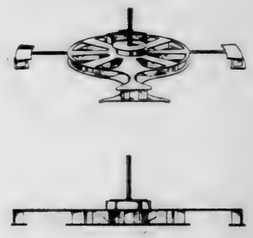
161,112—Continued

The ornamental design for a wheel chair, as shown.

161,113
SHOE FORM OR THE LIKE
Paris S. McCutcheon, Salem, Mass., assignor to Mrs. Day's Ideal Baby Shoe Company, Inc., Danvers, Mass., a corporation of Massachusetts
Application March 3, 1949, Serial No. 1,189
Term of patent 14 years
(Cl. D7—3)

The ornamental design for a shoe form or the like, substantially as shown.

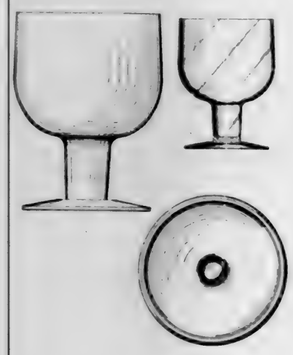
161,114
SHOPPING CENTER
Allan McNab, New York, N. Y., assignor to Allan McNab & Associates Inc., New York, N. Y., a corporation of New York
Application October 22, 1948, Serial No. 149,248
Term of patent 3½ years
(Cl. D13—1)



161,114—Continued

The ornamental design for a shopping center, as shown.

161,115
HOLLOW STEM CRYSTAL BEER GOBLET
William A. Meier, Rochester, Pa.
Application February 5, 1948, Serial No. 144,297
Term of patent 14 years
(Cl. D36—8)

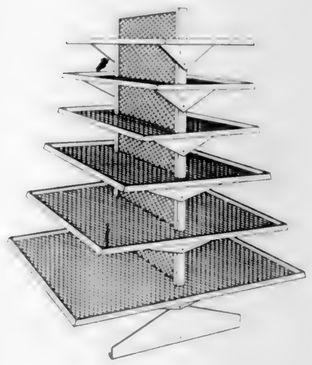


The ornamental design for a hollow stem crystal beer goblet, as shown.

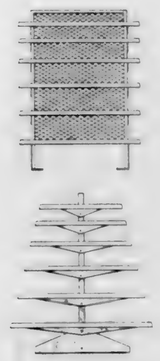
161,116
GLOVE HOLDING ATTACHMENT FOR HANDBAGS OR THE LIKE
Louis G. Meyers, New York, N. Y.
Application August 7, 1950, Serial No. 11,661
Term of patent 14 years
(Cl. D87—2)

The ornamental design for a glove holding attachment for handbags or the like, as shown and described.

161,117
MERCHANDISE DISPLAY STAND
Norton W. Moody, Flushing, N. Y.
Application September 25, 1948, Serial No. 148,773
Term of patent 14 years
(Cl. D80—9)



161,117—Continued



The ornamental design for a merchandise display stand, substantially as shown.

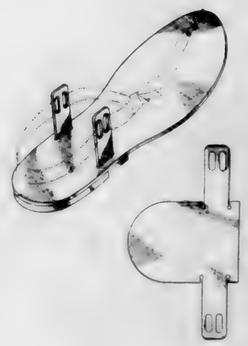
161,118
PLATE OR SIMILAR ARTICLE
Toni Olga Muench, East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 11, 1950, Serial No. 9,145
Term of patent 7 years
(Cl. D44—15)

The ornamental design for plate or similar article, as shown and described.

161,119
TEXTILE FABRIC OR THE LIKE
Claudia M. Ogden, Scottsdale, Ariz.
Application May 23, 1950, Serial No. 10,100
Term of patent 3½ years
(Cl. D92—1)

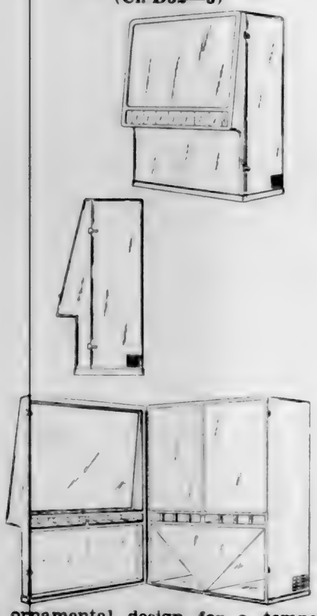
The ornamental design for a textile fabric or the like, as shown and described.

161,120
SANDAL OR SIMILAR ARTICLE
John L. Olson, Los Angeles, Calif.
Application April 19, 1949, Serial No. 2,129
Term of patent 7 years
(Cl. D7—7)



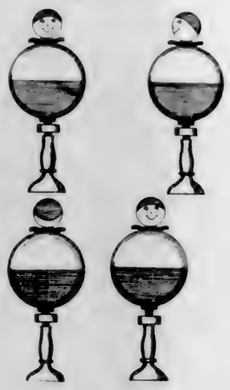
The ornamental design for a sandal or similar article, substantially as shown and described.

161,121
TEMPERATURE-CONTROLLED VENDING CABINET
Fred A. Ossanna, Jr., Austin, Tex.
Application February 9, 1950, Serial No. 7,849
Term of patent 14 years
(Cl. D52—3)



The ornamental design for a temperature-controlled vending cabinet, as shown and described.

161,122
COMBINED ILLUMINABLE RATTLE AND SUCTION CUP
Leo Packman, New York, N. Y.
Application January 20, 1950, Serial No. 7,363
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a combined illuminable rattle and suction cup, substantially as shown and described.

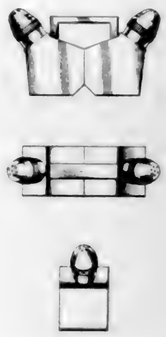
161,123
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,150
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,124
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 13, 1950, Serial No. 11,151
Term of patent 7 years
(Cl. D45—16)

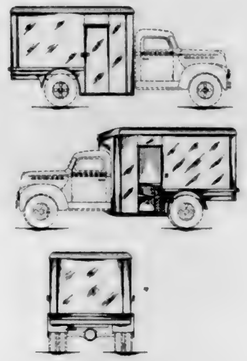
The ornamental design for a necklace or similar article, substantially as shown and described.

161,125
COMBINED SALT-AND-PEPPER SHAKER
Franco Polime, Chappaqua, N. Y., assignor to Twin Bottles, Inc., Port Chester, N. Y., a corporation of New York
Application October 3, 1950, Serial No. 12,441
Term of patent 14 years
(Cl. D44—22)



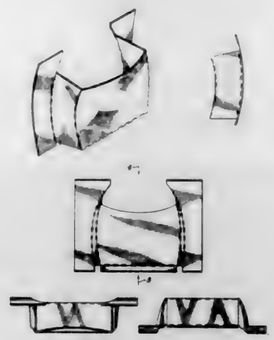
The ornamental design for a combined salt-and-pepper shaker, substantially as shown.

161,126
MOTOR VEHICLE
John J. Powers, University City, Mo.
Application October 20, 1947, Serial No. 142,031
Term of patent 14 years
(Cl. D14—3)



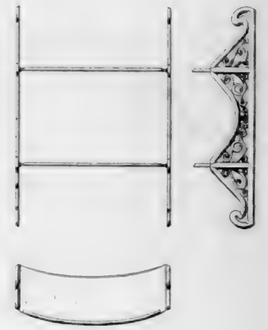
The ornamental design for a motor vehicle, substantially as shown and described.

161,127
NEWSPAPER AND PAMPHLET DISPENSER FOR STREETCARS AND BUSSES
Jack L. Robins, Los Angeles, Calif., assignor, by mesne assignments, to Transervice, Inc., a corporation of Delaware
Application October 10, 1949, Serial No. 5,417
Term of patent 7 years
(Cl. D33—18)



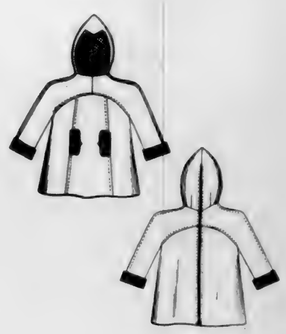
The ornamental design for a newspaper and pamphlet dispenser for streetcars and busses, as shown.

161,128
MINIATURE WALL SHELF
Noah Rubin, New York, N. Y., assignor to National Plastic Corp., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,142
Term of patent 3½ years
(Cl. D33—3)



The ornamental design for a miniature wall shelf, as shown and described.

161,129
CHILD'S HOODED COAT
Morris Saltzman, New York, N. Y.
Application April 27, 1950, Serial No. 9,504
Term of patent 14 years
(Cl. D3—4)



The ornamental design for a child's hooded coat, substantially as shown.

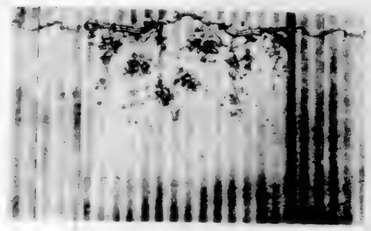
161,130
SHOE OR THE LIKE
Jacob Sandler, Boston, Mass.
Application September 27, 1950, Serial No. 12,377
Term of patent 7 years
(Cl. D7—7)

The ornamental design for a shoe or the like, substantially as shown and described.

161,131
SPADE FORK OR SIMILAR ARTICLE
Elizabeth M. Scott, Los Angeles, Calif.
Application December 7, 1946, Serial No. 135,345
Term of patent 14 years
(Cl. D39—1)

The ornamental design for a spade fork or similar article, substantially as shown.

161,132
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 21, 1950, Serial No. 9,401
Term of patent 7 years
(Cl. D59—10)

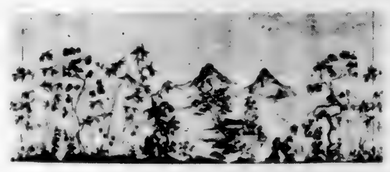


The ornamental design for a wallpaper or the like, substantially as shown and described.

161,133
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 21, 1950, Serial No. 9,402
Term of patent 7 years
(Cl. D59—10)

The ornamental design for a wallpaper or the like, substantially as shown and described.

161,134
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 21, 1950, Serial No. 9,403
Term of patent 7 years
(Cl. D59—10)



The ornamental design for a wallpaper or the like, substantially as shown and described.

161,135
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 21, 1950, Serial No. 9,404
Term of patent 7 years
(Cl. D59—10)

The ornamental design for a wallpaper or the like, substantially as shown and described.

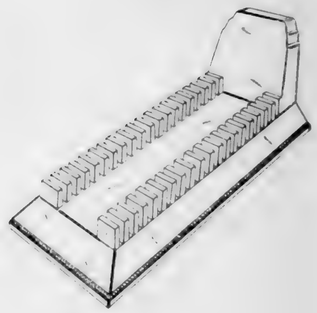
161,136
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application May 23, 1950, Serial No. 10,112
Term of patent 7 years
(Cl. D59—10)

The ornamental design for a wallpaper or the like, substantially as shown.

161,137
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application May 23, 1950, Serial No. 10,113
Term of patent 7 years
(Cl. D59—10)

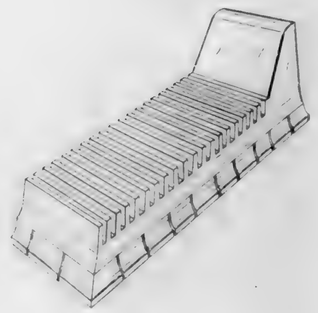
The ornamental design for a wallpaper or the like, substantially as shown.

161,138
MATCH BOOK DISPLAY STAND
Joseph Shapiro, St. Louis, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware
Application April 19, 1950, Serial No. 9,331
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a match book display stand, substantially as shown and described.

161,139
MATCH BOOK DISPLAY STAND
Joseph Shapiro, St. Louis, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware
Application April 19, 1950, Serial No. 9,333
Term of patent 14 years
(Cl. D80—9)

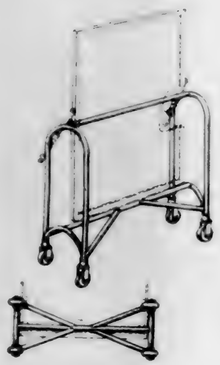


The ornamental design for a match book display stand, substantially as shown and described.

161,140
PAIR OF SUNGLASSES OR SIMILAR ARTICLE
Jean R. Shrewsbury, New York, N. Y.
Application April 30, 1949, Serial No. 2,361
Term of patent 7 years
(Cl. D57—1)

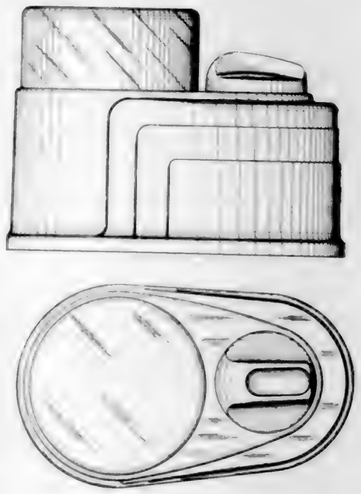
The ornamental design for a pair of sunglasses or similar article, as shown and described.

161,141
MOVABLE MIRROR RACK
Arnold V. Sneed, Huntsville, Ala.
Application December 30, 1948, Serial No. 150,451
Term of patent 14 years
(Cl. D14—3)



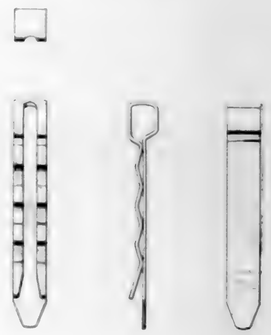
The ornamental design for a movable mirror rack, as shown and described.

161,142
VAPORIZER
Carl W. Sundberg, Birmingham, Mich., assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application February 3, 1950, Serial No. 7,684
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a vaporizer, as shown and described.

161,143
CLIP FOR A DRAPERY PLEATER
Ben Walters, Bronx, N. Y.
Application February 8, 1949, Serial No. 753
Term of patent 3½ years
(Cl. D17—3)

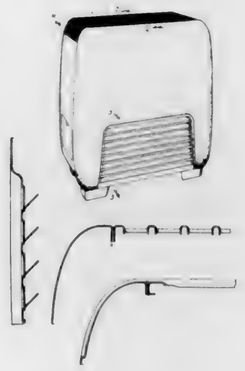


The ornamental design for a clip for a drapery pleater, as shown.

161,144
EYEBROW STENCIL
Ernest H. Westmore, North Hollywood, Calif.
Application September 19, 1949, Serial No. 5,066
Term of patent 14 years
(Cl. D86—10)

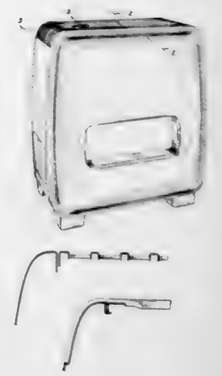
The ornamental design for an eyebrow stencil, as shown.

161,145
CABINET FOR A HEATER OR THE LIKE
Lawrence H. Wilson, Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 1, 1950, Serial No. 8,229
Term of patent 14 years
(Cl. D81—19)



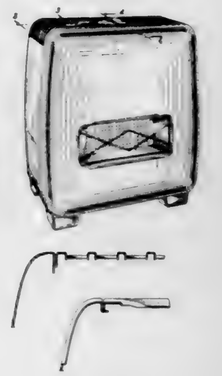
The ornamental design for a cabinet for a heater or the like, substantially as shown and described.

161,146
CABINET FOR A HEATER OR THE LIKE
Lawrence H. Wilson, Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 16, 1950, Serial No. 8,551
Term of patent 14 years
(Cl. D81—19)



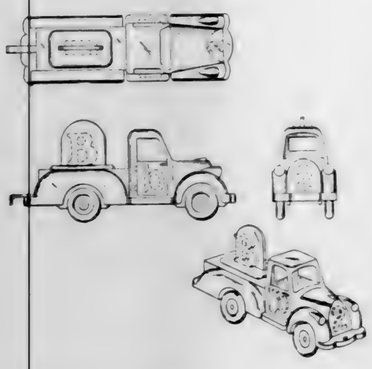
The ornamental design for a cabinet for a heater or the like, substantially as shown and described.

161,147
CABINET FOR A HEATER OR THE LIKE
Lawrence H. Wilson, Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application March 16, 1950, Serial No. 8,552
Term of patent 14 years
(Cl. D81—19)



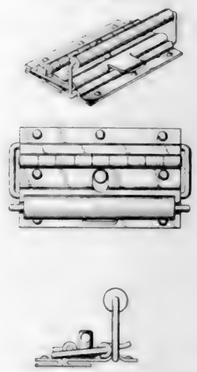
The ornamental design for a cabinet for a heater or the like, substantially as shown and described.

161,148
EDUCATIONAL TOY AUTOMOBILE
Archibald Carl Young, St. Louis, Mo.
Application December 4, 1948, Serial No. 149,978
Term of patent 14 years
(Cl. D34—15)



The ornamental design for an educational toy automobile, substantially as shown and described.

161,149
LUGGAGE LOCK
Lothar R. Zifferer, York, Pa., assignor to New Standard Corporation, Mount Joy, Pa., a corporation of Pennsylvania
Application October 22, 1949, Serial No. 5,660
Term of patent 14 years
(Cl. D50—7)



The ornamental design for a luggage lock, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Altman, B., & Co., New York, N. Y. Combined air conditioning and heating or cooling units; heating devices. Serial No. 570,173, Dec. 5. Class 34.

Amalgamated Dental Company Limited, The, London, England. Dental instruments and utensils. Serial No. 572,147, Dec. 5. Class 44.

Americaine, Inc., Evanston, Ill. Topical antiseptic ointment. Serial No. 594,189, Dec. 5. Class 18.

American Cyanamid Company, New York, N. Y. Preparations containing a combination of bacterins or vaccines. Serial No. 573,862, Dec. 5. Class 18.

American Health Air Systems, Incorporated, New Haven, Conn. Air sanitizing apparatus. Serial No. 593,045, Dec. 5. Class 21.

American Smelting and Refining Company, Jersey City, N. J., and New York, N. Y. White metals, zinc-base alloys, anti-friction metal, etc. Serial No. 577,926, Dec. 5. Class 14.

American Sponge and Chamois Company, Inc., New York, N. Y. Sponges. Serial No. 586,579, Dec. 5. Class 1.

Amfre Drug Company, Incorporated: *See*—
Stuart, Robert.

Anderson, C. W., doing business as C. W. Anderson Hosiery Co., Clinton, S. C. Ladies' hosiery. Serial No. 559,267, Dec. 5. Class 39.

Anderson, C. W., Hosiery Co.: *See*—
Anderson, C. W.

Anderson, V. D., Company, The, Cleveland, Ohio. Mechanical presses, dryers, screening or settling tanks, etc. Serial No. 589,370, Dec. 5. Class 23.

Apex Products Corporation, New York, N. Y. Pencils. Serial No. 591,393, Dec. 5. Class 37.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Anti-shine preparation. Serial No. 582,339, Dec. 5. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Liquid skin creme preparation. Serial No. 587,843, Dec. 5. Class 51.

Armour and Company, Chicago, Ill. Bacon. Serial No. 540,144, Dec. 5. Class 46.

Armour and Company, doing business as Armour Sandpaper Works, Chicago, Ill. Coated abrasive products. Serial No. 540,963, Dec. 5. Class 4.

Armour Sandpaper Works: *See*—
Armour and Company.

Aron, M., Corporation, New York, N. Y. Necktie display rack. Serial No. 588,470, Dec. 5. Class 32.

Artcraft Hosiery Mills, Inc., Darby, Pa. Ladies' hosiery. Serial No. 592,411, Dec. 5. Class 39.

Arwell, Inc., Waukegan, Ill. Preparation used for general cleaning and removing grease. Serial No. 567,673, Dec. 5. Class 52.

Atkinson, Herbert J., doing business as Sudbury Laboratory, South Sudbury, Mass. Chemical preparation. Serial No. 593,050, Dec. 5. Class 6.

Atwood Coffee Co.: *See*—
Atwood Coffee Company.

Atwood Coffee Company, doing business as Atwood Coffee Co., Minneapolis, Minn. Coffee. Serial Nos. 546,165–6, Dec. 5. Class 46.

Automatic Pump & Softener Corporation, Rockford, Ill. Multiple part valves. Serial No. 574,812, Dec. 5. Class 13.

Avon Products, Inc., New York, N. Y. Toilet water, perfume and cologne. Serial No. 595,649, Dec. 5. Class 51.

Basic Foods, Inc., New York, N. Y., assignor to Curt Michaelis, Weehawken, N. J. Icing. Serial No. 559,671, Dec. 5. Class 46.

Bat-O-Lite Company: *See*—
Battiste, Donald A.

Battiste, Donald A., doing business as Bat-O-Lite Company, Philadelphia, Pa. Compound sold in bulk to commercial and industrial bakers. Serial No. 522,706, Dec. 5. Class 46.

Beasley and Haberle, Jacksonville, Tex. Agitator. Serial No. 584,524, Dec. 5. Class 23.

Beaton, J. R., Co., Inc., New York, N. Y., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Fabric gloves. Serial No. 523,511, Dec. 5. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Electric storage batteries and flashlights. Serial No. 591,549, Dec. 5. Class 21.

Bennen, C. A., Nogales, Ariz. Fresh tomatoes. Serial No. 567,488, Dec. 5. Class 46.

Berkshire Knitting Mills: *See*—
Beaton, J. R., Co., Inc.

Bernside Mills: *See*—
Bernstein, Charles, & Son.

Bernstein, Charles, & Son, doing business as Bernside Mills, New York, N. Y. Piece goods. Serial No. 589,418, Dec. 5. Class 42.

Bessom, E. A., Corporation, Salem, Mass. Lock nuts. Serial No. 580,571, Dec. 5. Class 13.

Bijur Lubricating Corporation, Long Island City, N. Y. Lubricant tanks and reservoirs. Serial No. 526,189, Dec. 5. Class 2.

Bliss Syrup & Preserving Co., Kansas City, Mo. Fruit butter, apple butter and apple cherry jelly. Serial No. 545,432, Dec. 5. Class 46.

Brainard Steel Company, Warren, Ohio. Manually operated tool. Serial No. 592,542, Dec. 5. Class 23.

Brenner, Earl E., Dayton, Ohio. Luggage. Serial No. 523,457, Dec. 5. Class 3.

Bristol-Myers Company, New York, N. Y. Preparation for the care and treatment of the hair and scalp. Serial No. 520,608, Dec. 5. Class 18.

Brocato, Elinor, San Francisco, Calif. Toy dogs. Serial No. 588,934, Dec. 5. Class 22.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling bags. Serial No. 592,601, Dec. 5. Class 22.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling bags. Serial No. 592,603, Dec. 5. Class 22.

Buck Bros. Inc., Millbury, Mass. Chisels, gouges, plane irons, etc. Serial No. 558,344, Dec. 5. Class 23.

Bührmann's, G. H., Papiergroothandel, N. V., Amsterdam, Netherlands. Writing paper and envelopes, bond paper, blank bank paper, etc. Serial No. 559,574, Dec. 5. Class 37.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 592,607, Dec. 5. Class 6.

Calvital Company, Inc., Mt. Vernon, N. Y. Medicinal preparation. Serial No. 582,815, Dec. 5. Class 18.

Carl, Charles A., doing business as Phoenix Candy Company, Brooklyn, N. Y. Candies. Serial No. 588,478, Dec. 5. Class 46.

Caron Corporation, New York, N. Y. Face powder and bath powder. Serial No. 591,911, Dec. 5. Class 51.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation containing a combination of dehydrochloric acid and di-methionine. Serial No. 576,515, Dec. 5. Class 18.

Castro, Adolfo N., New York, N. Y. Facial soap. Serial No. 591,402, Dec. 5. Class 52.

Cellu-Fibre Can Corporation, Brooklyn, N. Y. Cardboard containers. Serial No. 560,863, Dec. 5. Class 2.

Central Manufacturers' Mutual Insurance Company, The, Van Wert, Ohio. Making insurance surveys. Serial No. 579,914, Dec. 5. Class 102.

Cheramy, Inc., New York, N. Y. Cologne. Serial No. 595,594, Dec. 5. Class 51.

Chevette, Inc., New York, N. Y. Girdles, foundation garments, brassières, etc. Serial No. 591,403, Dec. 5. Class 39.

Ciba Limited, Basle, Switzerland. Medicinal rubefacient. Serial No. 572,020, Dec. 5. Class 18.

Cinch Manufacturing Corporation, Chicago, Ill. Various component parts of electrical, electronic, and radio apparatus and devices. Serial Nos. 578,768–9, Dec. 5. Class 21.

Circul-Air Corporation, The, Detroit, Mich. Cabinet type fire hose dryer. Serial No. 562,985, Dec. 5. Class 21.

Clamp-On Corporation, New York, N. Y. Aprons. Serial No. 576,402, Dec. 5. Class 39.

Clayton Manufacturing Company, The, Bristol, Conn. Scissors and shears. Serial No. 593,261, Dec. 5. Class 23.

Clinton Foods Inc., Clinton, Iowa. Laundry starch. Serial No. 593,103, Dec. 5. Class 6.

Clinton Foods Inc., Clinton, Iowa. Laundry starch. Serial No. 593,105, Dec. 5. Class 6.

Clinton Foods Inc., Clinton, Iowa. Corn starch. Serial No. 593,106, Dec. 5. Class 6.

Cohen, Nathan, Upholstery & Drapery Fabrics, Inc., New York, N. Y. Upholstery and drapery fabrics. Serial No. 580,122, Dec. 5. Class 42.

Cohen, Ted, Inc., New York, N. Y. Dresses for women, misses, and girls. Serial No. 506,862, Dec. 5. Class 39.

Colden Manufacturing Co., Newark, N. J. Mattresses. Serial No. 567,560, Dec. 5. Class 32.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Sudsing cleaner, cleanser, and detergent. Serial No. 591,146, Dec. 5. Class 52.

Colorscope, Inc., Moline, Ill. Toy film viewer. Serial No. 571,072, Dec. 5. Class 22.

Commanditaire Vennootschap onder de firma C. J. van Houten & Zoon, doing business as C. J. van Houten & Zoon, Weesp, Holland. Cocoabeans, cocoa, cocoabutter, etc. Serial No. 524,301, Dec. 5. Class 46.

Comstock Canning Corporation, Newark, N. Y. Canned and frozen apples. Serial No. 532,565, Dec. 5. Class 46.

Continental Motors Corporation, Detroit and Muskegon, Mich. Internal combustion engines, etc. Serial No. 569,817, Dec. 5. Class 23.

Coro, Inc., New York, N. Y. Necklaces, bracelets, finger rings, etc. Serial No. 589,006, Dec. 5. Class 28.

Crayeres, Cimenterie et fours a chaux d' Harmignies, Societe Anonyme, Harmignies, Belgium. Chalk. Serial No. 587,938, Dec. 5. Class 1.

Cribari, B., & Sons, Fresno, Calif. Wines. Serial No. 574,610, Dec. 5. Class 47.

Cronpton Company, West Warwick, R. I. Fabrics in the piece. Serial No. 559,789, Dec. 5. Class 42.

Crouse-Hinds Company, Syracuse, N. Y. Electric visible and audible alarm signaling apparatus. Serial No. 552,845, Dec. 5. Class 21.

Crown Fastener Corporation, Warren, R. I. Separable slide fasteners. Serial No. 508,103, Dec. 5. Class 13.

Cudahy Packing Company, The, Chicago, Ill. Wax. Serial No. 558,371, Dec. 5. Class 4.

Daisy Pet Food Co., Hollywood, Calif. Dog and cat food. Serial No. 586,048, Dec. 5. Class 46.

De Luxe Products Corporation, Laporte, Ind. Exhaust manifold attachments for internal combustion engines. Serial No. 541,817, Dec. 5. Class 23.

Di Giorgio Fruit Corporation, San Francisco, Calif. Fresh pears. Serial No. 586,735, Dec. 5. Class 46.

Drew, E. R., & Co., Inc., New York, N. Y. Salad oil. Serial No. 565,543, Dec. 5. Class 46.

Drug Specialties, Incorporated, Winston-Salem, N. C. Medicinal preparation. Serial No. 573,172, Dec. 5. Class 18.

Duframe Specialty Company, Chicago, Ill. Anal inserts. Serial No. 563,698, Dec. 5. Class 44.

Dunhill, Mary, Inc., New York, N. Y. Empty glass perfume flacons. Serial No. 490,017, Dec. 5. Class 2.

Dura-Life Company, The: *See*—
Hudgins, Gerald P.

Economy Fuse and Manufacturing Co.: *See*—
Economy Fuse and Manufacturing Company.

Economy Fuse and Manufacturing Company, Chicago, Ill., assignor, by mesne assignments, to Economy Fuse and Manufacturing Co. Fuses and receptacles therefor. Serial No. 593,791, Dec. 5. Class 21.

Ekco Products Company, Chicago, Ill. Flatware. Serial No. 598,716, Dec. 5. Class 23.

Electronic & Hobbycraft Stores, Inc., The, Philadelphia, Pa. Publication. Serial No. 592,702, Dec. 5. Class 38.

Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.

Empire Box Corporation, Garfield, N. J. Cartons. Serial No. 592,198, Dec. 5. Class 2.

Endo Products Inc., Richmond Hill, N. Y. General analgesic. Serial Nos. 590,077–8, Dec. 5. Class 18.

Energized Materials Corporation, Chicago, Ill. Thin transparent plastic sheets. Serial No. 592,316, Dec. 5. Class 1.

Engineering Achievements, Inc., New Orleans, La. Magnetic catches. Serial No. 567,765, Dec. 5. Class 13.

Esbeco Distilling Corporation, Stamford, Conn. Whiskey. Serial No. 570,549, Dec. 5. Class 49.

Eutectic Welding Alloys Corporation, New York, N. Y. Copper base alloy. Serial No. 591,723, Dec. 5. Class 14.

Evans, David G., Coffee Company: *See*—
Old Judge Coffee Company, Inc.

Excel Garment Manufacturing Company, Minneapolis, Minn. Outer garments. Serial No. 587,433, Dec. 5. Class 39.

Fabric Prints, Inc., New York, N. Y. Piece goods. Serial Nos. 589,014–15, Dec. 5. Class 42.

Farmer, Claudia M., doing business as Far-Mo Laboratories, Omaha, Nebr. Oil for hair and scalp. Serial No. 593,476, Dec. 5. Class 51.

Far-Mo Laboratories: *See*—
Farmer, Claudia M.

Federated Department Stores, Inc., Cincinnati, Ohio. Lawn mowers. Serial No. 598,904, Dec. 5. Class 23.

Filippone, B., & Co., Inc., Passaic, N. J. Wheat flour. Serial No. 590,740, Dec. 5. Class 46.

First Industrial Corporation, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Precision electric switch. Serial No. 591,984, Dec. 5. Class 21.

Flatau, James G., Chicago, Ill. Wrist watch bands. Serial No. 592,023, Dec. 5. Class 28.

Fleetwood Sportwear, Inc., New York, N. Y. Knitted sweaters for ladies, misses, and children. Serial No. 584,807, Dec. 5. Class 39.

Fleming, George E., doing business as George E. Fleming Company, Darlington, S. C. Room heating coal burning stoves, furnaces, boilers, and parts thereof. Serial No. 572,967, Dec. 5. Class 34.

Fleming, George E., Company: *See*—
Fleming, George E.

Florence Art Co.: *See*—
Lerman, Abraham P.

Franklin Research Company, Philadelphia, Pa. Floor wax. Serial No. 561,916, Dec. 5. Class 16.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 589,256, Dec. 5. Class 42.

Furst-McNess Company, Freeport, Ill. Food flavoring extracts, and baking powder. Serial No. 522,763, Dec. 5. Class 46.

Gabrieleen Co., Inc., Chicago, Ill. Permanent wave lotion. Serial No. 594,898, Dec. 5. Class 51.

Gemex Company, Union, N. J. Watch bands. Serial No. 581,874, Dec. 5. Class 28.

General Scientific Equipment Company: *See*—
Kline, Maurice.

Glolite Corporation, The, Chicago, Ill. Electric decorative lighting equipment. Serial No. 571,526, Dec. 5. Class 21.

Good Luck Glove Company, Carbondale, Ill. Fabric work gloves. Serial No. 529,006, Dec. 5. Class 39.

Grand Bag & Paper Co., Inc., New York, N. Y. Waxed and unwaxed paper bags. Serial No. 572,006, Dec. 5. Class 2.

Grant, Foster, Co., Inc., Leominster, Mass. Combs. Serial No. 600,885, Dec. 5. Class 40.

Grassmann Edward C., Inc., Newark, N. J. Necklace clasps. Serial No. 582,083, Dec. 5. Class 28.

Griffith Laboratories, Inc., The, Chicago, Ill. Chemical germicidal cleanser, antiseptic and deodorant. Serial No. 590,294, Dec. 5. Class 52.

Griffith, R. L., and Son Company, The, Providence, R. I. Imitation stones. Serial No. 586,693, Dec. 5. Class 28.

Grof Manufacturing Company, Cleveland, Ohio. Jewelry. Serial No. 564,237, Dec. 5. Class 28.

Habitant Fence, Inc., Alpena, Mich. Corner trellises, lawn trellises, arbors, etc. Serial No. 595,318, Dec. 5. Class 12.

Hammond Research Corporation, Gloucester, Mass. Knives, forks and spoons. Serial No. 598,793, Dec. 5. Class 23.

Handelsvennootschap onder de firma Smith & ten Hove, Kampen, Holland. Smoking tobacco, cigars and cigarettes. Serial No. 578,689, Dec. 5. Class 17.

Hankscraft Company, Madison, Wis. Electrically-heated steam vaporizer. Serial No. 548,498, Dec. 5. Class 44.

Hankscraft Company, Reedsburg, Wis. Time control switch. Serial No. 589,849, Dec. 5. Class 26.

Hanna Furnace Corporation, The, Detroit, Mich. Pig iron. Serial Nos. 571,640–1, Dec. 5. Class 14.

Hearst Magazines Inc., New York, N. Y. Magazine feature, section or department. Serial No. 592,628, Dec. 5. Class 38.

Heints, James C., & Company, Inc., Cleveland, Ohio. Fire molds. Serial No. 592,320, Dec. 5. Class 23.

Hercules Powder Company, Wilmington, Del. Natural resin. Serial No. 575,740, Dec. 5. Class 1.

Hile-Damroth, Inc., New York, N. Y. Visual presentation materials. Serial No. 572,974, Dec. 5. Class 50.

Holly Hill Fruit Products, Incorporated, Davenport, Fla. Fresh and canned citrus fruits, canned citrus fruit juices, etc. Serial No. 525,327, Dec. 5. Class 46.

Houghton, E. F., & Co., Philadelphia, Pa. Lubricating greases and lubricating oils. Serial No. 536,396, Dec. 5. Class 15.

Hovden Foods Products Corporation, *See*—
Hovden, K.

Hovden, K., doing business under the name and style of Western Fish Products Co., assignor to Hovden Food Products Corporation, Monterey, Calif. Canned fish. Serial No. 554,790, Dec. 5. Class 46.

Hubbard and Company, Pittsburgh, Pa. Tools and similar devices. Serial No. 581,483, Dec. 5. Class 23.

Hudgins, Gerald P., doing business as The Dura-Life Company, Fort Worth, Tex. Liquid wood preserver. Serial No. 582,478, Dec. 5. Class 6.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Unitary hand-operated sprayers. Serial No. 587,490, Dec. 5. Class 23.

Ideal Novelty & Toy Co., Hollis, N. Y. Dolls and toy stuffed animals. Serial No. 587,728, Dec. 5. Class 22.

Igler, E. T. Company: *See*—
Igler, Emmerich T.

Igler, Emmerich T., doing business as E. T. Igler Company, New York, N. Y. Wardrobe racks. Serial No. 588,219, Dec. 5. Class 32.

Illinois Gear & Machine Company, Chicago, Ill. Roller and silent chain sprockets; speed reducers; machine gears, etc. Serial Nos. 565,263–6, Dec. 5. Class 23.

Illinois Watch Case Co., operating under the name of Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Combination cigarette case and lighter. Serial No. 591,929, Dec. 5. Class 8.

Imperial Knife Company, Inc., Providence, R. I. Pocket knives, paring knives and hunting knives. Serial No. 553,280, Dec. 5. Class 23.

Indian River Fabrics, Inc., Marietta, Ga. Textile fabrics. Serial No. 588,802, Dec. 5. Class 42.

Institute of Radio Engineers, Inc., The, New York, N. Y. Lapel buttons, pins and watch charms. Serial No. 554,571, Dec. 5. Class 28.

Interchemical Corporation, New York, N. Y. Carbon paper. Serial No. 585,477, Dec. 5. Class 11.

Interchemical Corporation, New York, N. Y. Intaglio ink, news ink, lithographic ink, etc. Serial No. 593,072, Dec. 5. Class 11.

International Nickel Company, Inc., The, New York, N. Y. Nickel-chromium alloy welding wire. Serial No. 580,600, Dec. 5. Class 14.

International Paper Company, New York, N. Y. Butchers' wrapping paper. Serial No. 591,485, Dec. 5. Class 37.

International Silver Company, The, Meriden, Conn. Silver-plated table ware. Serial No. 589,853, Dec. 5. Class 28.

Iowa Soap Company, Burlington, Iowa. Powdered soap. Serial No. 591,781, Dec. 5. Class 52.

Jamol Co., The: *See*—
Romano, Jacques.

Jean-Pascal Lorriaux & Cie, Paris, France. Perfumes. Serial No. 516,291, Dec. 5. Class 51.

Jennings, Russell, Manufacturing Company, The, New Britain, Conn. Augers and bits. Serial No. 599,245, Dec. 5. Class 23.

Jensen, Georg, Inc., New York, N. Y. Table bowls, table service plates, serving trays, etc. Serial No. 504,557, Dec. 5. Class 13.

Jensen, Georg, Inc., New York, N. Y. Table bowls, table service plates, serving trays, etc. Serial No. 504,840, Dec. 5. Class 13.

Jo-Art's Jewelry Company, Kansas City, Mo. Diamond finger rings. Serial No. 543,716, Dec. 5. Class 28.

Johnny J. Inc., Lansford, Pa. Prepared salted popcorn. Serial No. 584,401, Dec. 5. Class 46.

Jonas & Colver (Novo) Limited, Sheffield, England. Machine tools and parts thereof. Serial No. 568,195, Dec. 5. Class 23.

Kaufman Knitting Company, Minneapolis, Minn. Ladies', girls' and children's sweaters, skirts, blouses, etc. Serial No. 515,883, Dec. 5. Class 39.

Keim, H. H., Company, Nampa, Idaho. Meats and meat products. Serial No. 537,895, Dec. 5. Class 46.

Kendall Oil Company, Inc., Chattanooga, Tenn. Gasoline, kerosene, motor fuel, etc. Serial No. 590,664, Dec. 5. Class 15.

Kester Solder Company, Chicago, Ill. Solder. Serial No. 574,842, Dec. 5. Class 14.

Kidde Manufacturing Co., Inc., Bloomfield, N. J. Carbon dioxide. Serial No. 569,976, Dec. 5. Class 6.

Kinney and Company, Columbus, Ind. Iron and yeast extract. Serial No. 579,980, Dec. 5. Class 18.

Kline, Maurice, doing business as General Scientific Equipment Company, Philadelphia, Pa. Safety devices. Serial No. 566,620, Dec. 5. Class 44.

Knapp-Monarch Company, St. Louis, Mo. Filled germicide and insecticide dispensers. Serial No. 578,085, Dec. 5. Class 6.

Kohler, Harold J., trading as Monarch Laboratories, and Monarch Labs, Chicago, Ill. Deodorants. Serial No. 592,914, Dec. 5. Class 6.

Kraft Foods Company, Chicago, Ill. Condiment in the form of a sauce. Serial No. 587,195, Dec. 5. Class 46.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Tie clips, cuff links, key chains, etc. Serial No. 587,196, Dec. 5. Class 28.

Lampl Fashions, Inc., Cleveland, Ohio. Women's Clothing. Serial No. 537,050, Dec. 5. Class 39.

Landers, Frary & Clark, New Britain, Conn. Electrically-heated apparatus. Serial No. 579,542, Dec. 5. Class 21.

Lasko Strap Company, New York, N. Y. Wrist watch straps. Serial No. 594,271, Dec. 5. Class 28.

Laszlo, Stephen E., Brooklyn, N. Y. Opera glasses and binoculars. Serial No. 597,211, Dec. 5. Class 26.

Lehigh Valley Coal Sales Company, New York, N. Y. Coal. Serial No. 550,240, Dec. 5. Class 1.

Lerman, Abraham P., doing business as Florence Art Co., Chicago, Ill. Plaster of Paris and terra cotta novelties. Serial No. 584,819, Dec. 5. Class 50.

Licorería Occidental, S. A., Habana, Cuba. Rum. Serial No. 538,302, Dec. 5. Class 49.

Life Savers Corporation, Port Chester, N. Y. Candies. Serial No. 588,694, Dec. 5. Class 46.

Lindsay Ripe Olive Company, Lindsay, Calif. Canned olives. Serial No. 538,937, Dec. 5. Class 46.

Lorentzen, Howard M., Boone, Iowa. Disposable stocking shields. Serial No. 587,198, Dec. 5. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Dolls. Serial No. 590,320, Dec. 5. Class 22.

Magic Gold Foods Co.: *See*—
Young, W. T., Foods, Inc.

Malone, L. T., doing business as L. T. Malone Company, Phoenix, Ariz. Fresh lettuce, carrots, broccoli. Serial No. 591,175, Dec. 5. Class 46.

Malone, L. T., Company: *See*—
Malone, L. T.

Manning, Maxwell & Moore, Inc., New York, N. Y. Electrically driven hoists. Serial No. 537,602, Dec. 5. Class 21.

Marathon Company, Attleboro, Mass. Jewelry, flatware; and hollow ware. Serial No. 551,293, Dec. 5. Class 28.

Marathon Company, Attleboro, Mass. Jewelry. Serial No. 551,294, Dec. 5. Class 28.

Marathon Corporation, Rothschild, Wis. Bakers' wrapping paper. Serial No. 591,179, Dec. 5. Class 37.

Marathon Corporation, Rothschild, Wis. Butchers' wrapping paper. Serial No. 591,180, Dec. 5. Class 37.

Marvel Shear Manufacturing Co.: *See*—
Mitchell, Francis M.

Maryland Beverage Company, Inc., Baltimore, Md. Canned fruit flavored beverages. Serial No. 560,909, Dec. 5. Class 45.

Masland, C. H., & Sons, Carlisle, Pa. Textile carpets and rugs. Serial No. 588,101, Dec. 5. Class 42.

Massey-Harris Company, The, Racine, Wis. Hydraulic rams. Serial No. 599,713, Dec. 5. Class 23.

Matthews, W. N., Corporation, St. Louis, Mo. High voltage power line switches. Serial No. 594,228, Dec. 5. Class 21.

Maura, Joseph I., doing business under the name Maura's, New York, N. Y. Liniments. Serial No. 589,863, Dec. 5. Class 18.

Maura's: *See*—
Maura, Joseph I.

May, Earl, Seed Co.: *See*—
May Seed & Nursery Co.

May Seed & Nursery Co., doing business as Earl May Seed Co., Shenandoah, Iowa. Baby chicks. Serial No. 598,738, Dec. 5. Class 1.

McLellan Stores Company, New York, N. Y. Hosiery. Serial No. 585,179, Dec. 5. Class 39.

Merit Textile Fabrics Inc., New York, N. Y. Cotton, linen, rayon, etc., fabrics. Serial No. 590,938, Dec. 5. Class 42.

Metasap Chemical Company, Harrison, N. J. Metallic soap compositions. Serial No. 585,657, Dec. 5. Class 15.

Michaelis, Curt: *See*—
Basic Foods, Inc.

Middleby, Joseph, Jr., Inc., Boston, Mass. Bi-carbonate soda, glycerine, etc. Serial No. 554,994, Dec. 5. Class 6.

Milroy Enterprises Inc., Middletown, Ohio. Broiler. Serial No. 578,399, Dec. 5. Class 21.

Minneapolis-Honeywell Regulator Company: *See*—
First Industrial Corporation.

Mitchell, Francis M., doing business under the assumed name of Marvel Shear Manufacturing Co., Portland, Oreg. Barber shears and shears for general household use, etc. Serial No. 588,445, Dec. 5. Class 23.

Mittermeier, Frank, New York, N. Y. Carving tools. Serial No. 591,578, Dec. 5. Class 23.

Mohawk Paper Mills, Inc., Cohoes and Waterford, N. Y. Text and cover papers. Serial No. 592,084, Dec. 5. Class 37.

Monarch Laboratories: *See*—
Kohler, Harold J.

Monarch Labs: *See*—
Kohler, Harold J.

Moore, L. H., Canning Company, McAllen, Tex. Canned fruits, canned citrus fruit juices, and canned vegetables. Serial No. 573,670, Dec. 5. Class 46.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial No. 599,645, Dec. 5. Class 23.

Mudd, Harvey S., Los Angeles, Calif. Fresh deciduous fruits. Serial No. 532,248, Dec. 5. Class 46.

National Comics Publications, Inc., New York, N. Y. Cartoon magazine. Serial No. 591,795, Dec. 5. Class 38.

National Cylinder Gas Company, Chicago, Ill. Gas handling and distributing supplies and accessories. Serial No. 545,511, Dec. 5. Class 13.

National Cylinder Gas Company, Chicago, Ill. Gas handling and distributing supplies and accessories. Serial No. 546,409, Dec. 5. Class 13.

National Cylinder Gas Company, Chicago, Ill. Gas handling and distributing supplies and accessories. Serial No. 547,021, Dec. 5. Class 13.

National Cylinder Gas Company, Chicago, Ill. Gas handling and distributing supplies and accessories. Serial No. 547,267, Dec. 5. Class 13.

Neil Products Inc., Los Angeles, Calif. Fruit, berry, butter and vanilla concentrates, etc. Serial No. 567,466, Dec. 5. Class 46.

Newark Paraffine & Parchment Paper Co., Newark, N. J. Opaque waxed paper. Serial No. 572,678, Dec. 5. Class 37.

Newberry, J. J., Co., New York, N. Y. Earrings, finger rings, charms, etc. Serial No. 588,506, Dec. 5. Class 28.

New York Coal Sales Company, Columbus, Ohio. Coal. Serial No. 579,826, Dec. 5. Class 1.

New York Herald Tribune Inc., New York, N. Y. Comic strip. Serial No. 592,924, Dec. 5. Class 38.

Nicholas Company, The, Hartford, Conn. Carbonator. Serial No. 549,833, Dec. 5. Class 23.

Nordenbrock, Henry J., Springdale, Ark. Poultry feeders. Serial No. 580,853, Dec. 5. Class 50.

Nox-Rust Chemical Corporation, Chicago, Ill. Paste-like material. Serial No. 567,467, Dec. 5. Class 16.

Numotizine, Inc., Chicago, Ill. Medicated throat lozenges. Serial No. 594,060, Dec. 5. Class 18.

Odessa Ice Cream Company: *See*—
Shryock, J. C.

Old Judge Coffee Company, Inc., St. Louis, Mo., and Louisville, Ky., by change of name from David G. Evans Coffee Company, and assignee of The Ouerbacker Coffee Co. Grape jelly, strawberry preserves, cloves, etc. Serial No. 507,273, Dec. 5. Class 46.

Olive Heights Citrus Association, Olive, Calif. Fresh citrus fruits. Serial No. 545,030, Dec. 5. Class 46.

Oppenheim & Baruch, Inc., New York, N. Y. Textile fabrics in the piece, and vellings, nettings and lace piece goods. Serial No. 591,185, Dec. 5. Class 42.

Orange Smile Sirup Company, St. Louis, Mo. Nonalcoholic maltless beverages. Serial No. 523,853, Dec. 5. Class 45.

Oren, Bernard S., doing business as United States Industries, Chicago, Ill. Power driven sanding machines and parts thereof. Serial No. 579,994, Dec. 5. Class 23.

Ortho Pharmaceutical Corporation, Raritan, N. J. Zippered bag containing a pessary and vaginal creams and jellies. Serial No. 575,924, Dec. 5. Class 18.

Osborn Manufacturing Company, The, Cleveland, Ohio. Wire brushes, etc. Serial No. 594,656, Dec. 5. Class 23.

Ouerbacker Coffee Co., The: *See*—
Old Judge Coffee Company, Inc.

Oxford Filing Supply Co., Inc., Garden City, N. Y. Index cards, index guides, guide cards, etc. Serial No. 589,467, Dec. 5. Class 37.

Pacific Mills, Boston, Mass., and New York, N. Y. Sheets. Serial No. 580,256, Dec. 5. Class 42.
Park Odor Products Company, Bangor, Maine. Corn remover, and ointment. Serial No. 578,619, Dec. 5. Class 18.
Park & Tilford Distillers, Inc., New York, N. Y. Whiskey. Serial No. 589,110, Dec. 5. Class 49.
Patou, Jean, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 589,470, Dec. 5. Class 51.
Paul, J. C., & Co., Chicago, Ill. Shuffleboard powder. Serial No. 591,252, Dec. 5. Class 6.
Pennington, Lacy K., Fremont, Mich. Portable and adjustable scaffolds. Serial No. 559,118, Dec. 5. Class 50.
Pennsylvania Steel Corp., The, Detroit, Mich. Tool steel. Serial Nos. 592,049–50, Dec. 5. Class 14.
Perfect Circle Corporation, Hagerstown, Ind. Advertising novelty. Serial No. 593,368, Dec. 5. Class 50.
Perlmutter, Jerome, New York, N. Y. Dry powder. Serial No. 573,383, Dec. 5. Class 1.
Permafuse Corp., The, Garden City, N. Y. Brake shoe lining bonding apparatus. Serial No. 591,512, Dec. 5. Class 23.
Phillips Petroleum Company, Bartlesville, Okla. Storage batteries, battery cables, automobile fuses, etc. Serial No. 571,743, Dec. 5. Class 21.
Phoenix Candy Company: *See*—
Carl, Charles A.
Pittsburgh Coke & Chemical Company, Pittsburgh, and Neville Island, Pittsburgh, Pa. Chemicals. Serial No. 587,503, Dec. 5. Class 6.
Plant Protection Limited, Kent and Yalding, Kent, England. Preparations for killing weeds. Serial No. 593,239, Dec. 5. Class 6.
Plant Protection Limited, Kent and Yalding, Kent, England. Insecticides, fungicides and weed-killing preparations. Serial No. 593,240, Dec. 5. Class 6.
Plant Protection Limited, Kent and Yalding, Kent, England. Seed dressings. Serial No. 593,241, Dec. 5. Class 6.
Plastic Products Company, Inc., Corpus Christi, Tex. Transparent plastic clothing or garment bags. Serial No. 578,410, Dec. 5. Class 2.
Ploeger-Abbott Company, The, Darien, Ga. Canned oysters, canned crab meat, fresh crab meat, etc. Serial No. 581,441, Dec. 5. Class 46.
Pope Foundation, Inc., The, Chicago, Ill. Orthopedic braces. Serial No. 540,202, Dec. 5. Class 44.
Porterville Citrus Association, The, Porterville, Calif. Fresh citrus fruits. Serial No. 555,012, Dec. 5. Class 46.
Produits Chimiques de Liege, S. P. R. L. Bois-de-Breux, near Liege, Belgium. Writing and drawing inks, pad ink, carbon paper, etc. Serial No. 543,224, Dec. 5. Class 11.
Protexall Apron Company, Green Lake, Wis. Women's waterproof capes. Serial No. 509,168, Dec. 5. Class 39.
Quaker Oats Company, The, Chicago, Ill. Furfural residue. Serial No. 575,431, Dec. 5. Class 1.
Quaker Oats Company, The, Chicago, Ill. Furfural residue. Serial No. 592,604, Dec. 5. Class 1.
Reeves Pulley Company, Columbus, Ind. Variable speed power units. Serial No. 588,657, Dec. 5. Class 23.
Rigidized Metals Corporation, Buffalo, N. Y. Structurally reinforced ferrous and non-ferrous metal sheets and laminated ferrous and non-ferrous metal sheets. Serial No. 573,790, Dec. 5. Class 14.
Riverdale Chemical Company, Harvey, Ill. Preparation for killing weeds. Serial No. 549,278, Dec. 5. Class 6.
Rochester Enterprises, Inc., Rochester, N. Y. Board and card games. Serial No. 539,216, Dec. 5. Class 22.
Romano, Jacques, doing business as The Jamol Co., New York, N. Y. Massaging creams, perfumes, anoint oil, etc. Serial No. 584,777, Dec. 5. Class 51.
Root Elastic Fabrics, Inc., New York, N. Y. Elastic girdles and supporters both for surgical use. Serial No. 570,793, Dec. 5. Class 44.
Rosenholz, J., Inc., New York, N. Y. Piece goods. Serial No. 598,040, Dec. 5. Class 42.
Rowntree and Company Limited, York, England. Chocolates. Serial No. 588,709, Dec. 5. Class 46.
Russell Index Company, Pittsburgh, Pa. Indexes. Serial No. 568,671, Dec. 5. Class 37.
Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Steel plates and sheets, iron and steel metal bars and billets, etc. Serial No. 564,905, Dec 5. Class 14.
S & M Products, Des Moines, Iowa. Electric lamp and bracket assembly. Serial No. 588,455, Dec. 5. Class 21.
Saginaw Manufacturing Co., Saginaw, Mich. Folding ironing tables. Serial No. 594,235, Dec. 5. Class 24.
Sargent-Gerke Co., The, Indianapolis, Ind. Ready-mixed prepared interior and exterior paints, etc. Serial No. 553,025, Dec. 5. Class 16.
Schein Woolen Corp., New York, N. Y. Corduroy piece goods. Serial No. 591,256, Dec. 5. Class 42.
Schenley Laboratories, Inc., New York, N. Y. Chemotherapeutic agent. Serial No. 590,710, Dec. 5. Class 18.
Schick & Sons, Fort Wayne, Ind. Medicinal preparation. Serial No. 571,917, Dec. 5. Class 18.
Schieffelin & Co., New York, N. Y. Dietary supplement. Serial No. 589,396, Dec. 5. Class 18.
Schneierson, L., & Sons, Inc., New York, N. Y. Ladies' and children's princess slips, nightgowns, pajamas, etc. Serial No. 581,738, Dec. 5. Class 39.
Schulmerich Electronics, Incorporated, Sellersville, Pa. Audio frequency electronic amplifiers; automatic program controlled sound systems, etc. Serial No. 572,455, Dec. 5. Class 21.
Seamless Rubber Company, The, New Haven, Conn. Therapeutic rubber goods. Serial No. 523,483, Dec. 5. Class 44.
Sell's Specialties, Inc., New York, N. Y. Liver paste mix. Serial No. 588,815, Dec. 5. Class 46.
Sembodja Corporation of New York, New York, N. Y. Merchandise display forms. Serial No. 593,940, Dec. 5. Class 50.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Sulfonamide preparation. Serial No. 585,546, Dec. 5. Class 18.
Sherman Paper Products Corporation, Newton, Mass. Corrugated paper liners. Serial No. 592,437, Dec. 5. Class 37.
Shryock, J. C., doing business under the firm name Odessa Ice Cream Company, Odessa, Mo. Frozen food products. Serial No. 591,321, Dec. 5. Class 46.
Sigma Alpha Epsilon Fraternity, Evanston, Ill. Fraternity badges, lapel buttons, scarf, lapel, and breast pins, etc. Serial No. 589,597, Dec. 5. Class 28.
Sinam Products Corp., New York, N. Y. Mono-sodium glutamate seasoning powder for food purposes. Serial No. 586,321, Dec. 5. Class 46.
Smit, J. K., & Sons, Inc., assignor to J. K. Smit & Sons, Inc., Murray Hill, N. J. Diamond bits. 591,808, Dec. 5. Class 23.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. Serial No. 580,692, Dec. 5. Class 18.
Smith & Underwood, Royal Oak, Mich. Thermometers. Serial No. 594,337, Dec. 5. Class 26.
Smiths Motor Accessories Limited, Lindon, England. Fluid for use in hydraulic jacking systems. Serial No. 579,717, Dec. 5. Class 6.
Smithway Machine Co., Inc., Seattle, Wash. Woodworking machines. Serial No. 567,050, Dec. 5. Class 23.
Snyder, Marie, Alteration Method, San Francisco, Calif. Instruction in figure fitting. Serial No. 563,297, Dec. 5. Class 107.
Solar Steel Corporation, Cleveland, Ohio. Steel and iron. Serial No. 590,623, Dec. 5. Class 14.
Solar-Sturges Mfg. Co., Melrose Park, Ill. Stainless steel kitchen and cooking hollowware. Serial No. 564,661, Dec. 5. Class 13.
Speed Control Corporation, Wickliffe, Ohio. Power transmissions. Serial No. 585,609, Dec. 5. Class 23.
Spir-It, Inc., Malden, Mass. Non-metallic muddlers. Serial No. 598,871, Dec. 5. Class 23.
Steel and Tube Products Co., Milwaukee, Wis. Refrigerated milk storage tanks. Serial No. 556,666, Dec. 5. Class 31.
Sterling, Chester, Laboratories, Inc., Indianapolis, Ind. Molded, brick-like water softening compound. Serial No. 593,649, Dec. 5. Class 6.
Stevens, J. P., & Co., Inc., New York, N. Y. Denim fabrics. Serial No. 566,187, Dec. 5. Class 42.
Stitzel-Weller Distillery, Louisville, and Shively, Ky. Whiskies. Serial Nos. 582,393–4, Dec. 5. Class 49.
Stoddard, G. S., & Co., Inc., New York, N. Y. Analgesic and antipyretic. Serial No. 572,063, Dec. 5. Class 18.
Strauss, Edwin A., Cleveland, Ohio. Brokerage in insurance. Serial No. 588,404, Dec. 5. Class 102.
Stuart, Robert, doing business as The Succinol Company, assignor, by mesne assignments, to Amfre Drug Company, Incorporated, New York, N. Y. Medicinal preparation. Serial No. 571,238, Dec. 5. Class 18.
Stulz-Sickles Company, Newark, N. J. Metals. Serial No. 579,845, Dec. 5. Class 14.
Succinol Company, The: *See*—
Stuart, Robert.
Sudbury Laboratory: *See*—
Atkinson, Herbert J.
Sutliff & Case Co., Inc., Peoria, Ill. Gastric antacid medicinal tablets. Serial No. 578,727, Dec. 5. Class 18.
Sutliff & Case Co., Inc., Peoria, Ill. Non-greasy ointment. Serial No. 578,733, Dec. 5. Class 18.
Swedish Beer Export Co. Aktiebolag, Goteborg, Sweden. Beer. Serial No. 584,597, Dec. 5. Class 48.
Swift & Company, Chicago, Ill. Glue. Serial No. 585,146, Dec. 5. Class 5.
Swift & Company, Chicago, Ill. Glycerol derivative of selected hydrogenated vegetable fats. Serial No. 588,333, Dec. 5. Class 46.
Swift, M., & Sons, Inc., Hartford, Conn. Metal foil. Serial No. 584,598, Dec. 5. Class 14.
Tablerock Laboratories, Greenville, S. C. Liquid preparation for the treatment of liver disease. Serial No. 594,597, Dec. 5. Class 18.
Takahashi, C. T., doing business as C. T. Takahashi & Co., Seattle, Wash. Canned crab meat. Serial No. 585,729, Dec. 5. Class 46.
Takahashi, C. T., & Co.: *See*—
Takahashi, C. T.
Tennessee Coal, Iron and Railroad Company, Birmingham, Ala. Cotton bale ties. Serial No. 574,397, Dec. 5. Class 13.
Thomaston Cotton Mills, Thomaston, Ga. Bed sheets. Serial Nos. 588,191–2, Dec. 5. Class 42.

Thomaston Cotton Mills, Thomaston, Ga. Bed sheets. Serial No. 588,336, Dec. 5. Class 42.
Thomaston Cotton Mills, Thomaston, Ga. Bed sheets. Serial No. 589,925, Dec. 5. Class 42.
Topic Toys: *See*—
Trager, David C.
Trager, David C., doing business as Topic Toys, Chicago, Ill. Children's feeding device designed primarily for an amusement toy. Serial No. 578,468, Dec. 5. Class 22.
Troy, Ellen, New York, N. Y. Ladies' hosiery. Serial No. 592,529, Dec. 5. Class 39.
United Aircraft Products, Inc., Dayton, Ohio. Metal baking pans. Serial No. 566,369, Dec. 5. Class 13.
United Aircraft Products, Incorporated, Dayton, Ohio. Metal kitchenware pans. Serial No. 567,667, Dec. 5. Class 13.
United Aircraft Products, Inc., Dayton, Ohio. Metal kitchenware pans. Serial No. 569,026, Dec. 5. Class 13.
United Wallpaper, Inc., Chicago, Ill. Plastic coated fabric. Serial No. 582,112, Dec. 5. Class 42.
United States Electric Mfg. Corp., New York, N. Y. Electrical supplies. Serial No. 556,933, Dec. 5. Class 21.
United States Industries: *See*—
Oren, Bernard S.
Vale Chemical Company, Inc., The, Allentown, Pa. Medicinal preparation. Serial No. 575,684, Dec. 5. Class 18.
Van Den Berg, Arnold, Co., Inc., New York, N. Y. Hand blown glassware. Serial No. 589,878, Dec. 5. Class 33.
Van Den Berg, Arnold, Co., Inc., New York, N. Y. Crystal glassware. Serial No. 589,879, Dec. 5. Class 33.
Van Houten, C. J., & Zoon: *See*—
Commanditaire Vennootschap onder de firma C. J. van Houten & Zoon.
Verbrugge, Henry A., Port Washington, N. Y. Bar spoons. Serial No. 569,495, Dec. 5. Class 23.
Von Equipment Company, Inc., Memphis, Tenn. Harrows. Serial No. 538,476, Dec. 5. Class 23.
Wagner, E. R., Manufacturing Company, Milwaukee, Wis. Carpet sweepers. Serial No. 591,003, Dec. 5. Class 23.
Walker Vitamin Products, Inc., Mount Vernon, N. Y. Improved water soluble multivitamin dietary supplement. Serial No. 587,919, Dec. 5. Class 18.
Wallace & Tiernan Products, Inc., Belleville, N. J. Instruments for measuring and recording water temperature. Serial No. 578,179, Dec. 5. Class 26.
Watson, Walter T., Washington, D. C. Miniature basketball game. Serial No. 600,203, Dec. 5. Class 22.
Waxed Silicone Products, Inc., Miami, Fla. Metal polishes, automobile polishes, leather polishes, etc. Serial No. 583,011, Dec. 5. Class 4.
Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. Serial No. 591,969, Dec. 5. Class 39.
West Disinfecting Company, Long Island City, N. Y. Soap dispensers and soap lather dispensers. Serial No. 588,341, Dec. 5. Class 13.
Western Fish Products Co.: *See*—
Hovden, K.
Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets account, data and order books, etc. Serial No. 526,036, Dec. 5. Class 37.
Wheweil, Joseph, & Sons, Burnley, Lancaster, England. Maltless extract. Serial No. 547,212, Dec. 5. Class 45.
White, Miller R., Dallas, Tex. Hand painted woodenware. Serial No. 562,813, Dec. 5. Class 2.
Wieboldt Stores, Inc., Chicago, Ill. Textile carpeting and rugs. Serial No. 588,415, Dec. 5. Class 42.
Wilbur-Ellis Company, San Francisco, Calif. Canned fish. Serial No. 588,818, Dec. 5. Class 46.
Windy City Confections & Sales Co., Inc., Chicago, Ill. Candied fruit confection. Serial No. 589,881, Dec. 5. Class 46.
Wortendyke Manufacturing Company, Richmond, Va. Paper bags. Serial No. 544,806, Dec. 5. Class 2.
Wyeth Incorporated, Philadelphia, Pa. Medicinal vitamin E preparation. Serial No. 586,611, Dec. 5. Class 18.
Yakima Fruit & Cold Storage Co., Yakima, Wash. Fresh apples. Serial No. 584,210, Dec. 5. Class 46.
Young, W. T., Foods, Inc., doing business as Magic Gold Foods Co., Lexington, Ky. Peanut butter. Serial No. 576,565, Dec. 5. Class 46.
Zenith Radio Corporation, Chicago, Ill. Radio and television receiving sets and parts thereof, etc. Serial No. 581,230, Dec. 5. Class 21.
Zimmerman Brush Works, Inc., Chicago, Ill. Brooms. Serial No. 594,875, Dec. 5. Class 29.
Zonite Products Corporation, New York, N. Y. Diaper pants. Serial No. 578,430, Dec. 5. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

A-E Laboratories: *See*—
Isler, Edwin J.
Abbott Laboratories, North Chicago, Ill. House publication. 444,346, Dec. 5; Serial No. 503,033. Class 38.
Abbott Laboratories, North Chicago, Ill. Disposable ready-to-use unit for use in the parenteral administration of fluids. 534,360, Dec. 5; Serial No. 584,046, published Aug. 29, 1950. Class 44.
A'Cadia Powder Puff Co.: *See*—
Alter, Isador.
A'Cadia Powder Puff Co., Inc.: *See*—
Alter, Isador.
Affiliated Gas Equipment, Inc.: *See*—
Day & Night Water Heater Co., Ltd.
Aktiebolaget Astra, Apotekarnes Kemiska Fabriker, Södertälje, Sweden. Local anesthetic. 534,232, Dec. 5; Serial No. 562,437, published May 16, 1950. Class 18.
Aktiebolaget Astra, Apotekarnes Kemiska Fabriker, Södertälje, Sweden. Preparation of iron. 534,376, Dec. 5; Serial No. 584,787, published Aug. 8, 1950. Class 18.
Aktiebolaget Svenska Fläktfabriken, Stockholm, Sweden. Centrifugal fans and propeller fans. 263,100, renewed Oct. 29, 1949. O. G. Dec. 5. Class 34.
Albemarle Paper Mfg. Company, Richmond, Va. Blotting paper. 534,182, Dec. 5; Serial No. 535,444, published May 2, 1950. Class 37.
Algemeene Kunstzijde Unie N. V., Arnhem, Netherlands. Artificial-silk threads. 277,826, renewed Nov. 25, 1950. O. G. Dec. 5. Class 43.
Alkire, Eddie, Publications: *See*—
Alkire, Elbern H.
Alkire, Elbern H., doing business as Eddie Alkire Publications, Easton, Pa. Publications. 534,268, Dec. 5; Serial No. 573,397, published Aug. 15, 1950. Class 38.
Allcock, S., & Company Limited, Redditch, Worcester, England. Fish hooks. 534,208, Dec. 5; Serial No. 550,203, published Sept. 6, 1949. Class 22.
Allway Scarf Corp., New York, N. Y., assignor to Leon L. Wilson and Frederic C. Cooley, Jr., trading as Frederic C. Cooley, Jr., associates, New York, N. Y. Scarfs. 534,321, Dec. 5; Serial No. 581,697, published Aug. 15, 1950. Class 39.
Alter, Isador, doing business as A'Cadia Powder Puff Co., to A'Cadia Powder Puff Co., Inc., New York, N. Y. Powder puffs. 276,896, renewed Oct. 28, 1950. O. G. Dec. 5. Class 29.
Altman, B., & Co., New York, N. Y. Children's dresses. 534,263, Dec. 5; Serial No. 573,110, published Aug. 23, 1949. Class 39.
Altman, B., & Co., New York, N. Y. Men's negligee shirts. 534,506, Dec. 5; Serial No. 580,968. Class 39.
Altpeter, O., & Son: *See*—
Altpeter, Oscar.
Altpeter, Oscar, to O. Altpeter & Son, also known and doing business as Baraboo Bottling Works, Baraboo, Wis. Ginger-ale. 74,717, re-renewed Aug. 3, 1949. O. G. Dec. 5. Class 45.
American Chain & Cable Company, Inc., Bridgeport, Conn. Cotter pins. 534,260, Dec. 5; Serial No. 571,697, published Aug. 22, 1950. Class 13.
American Floor Surfacing Machine Company, The, Toledo, Ohio. Electric hand manipulated surface treating and finishing machines and tools. 534,397, Dec. 5; Serial No. 585,414, published Aug. 22, 1950. Class 21.
American Greeting Publishers, Inc., Cleveland, Ohio. Greeting cards. 534,415, Dec. 5; Serial No. 586,903, published Sept. 5, 1950. Class 38.
Ames Company, Inc., Elkhart, Ind. Medical leaflets. 534,339, Dec. 5; Serial No. 582,763, published Aug. 15, 1950. Class 38.
Anco Laboratories, Henderson, Ky. Insecticide. 534,264, Dec. 5; Serial No. 573,111, published Sept. 5, 1950. Class 6.
Anthony, Alfred A., New York, N. Y. Toys. 534,266, Dec. 5; Serial No. 573,350, published Aug. 15, 1950. Class 22.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Ladies' and misses' dresses, blouses, jackets, etc. 534,323, Dec. 5; Serial No. 581,850, published Sept. 5, 1950. Class 39.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Ladies' handbags. 534,327, Dec. 5; Serial No. 582,155, published Aug. 22, 1950. Class 3.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, nail polish, rouge, and face powder. 534,357, Dec. 5; Serial No. 583,905, published Aug. 8, 1950. Class 51.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, nail polish, rouge, etc. 534,368, Dec. 5; Serial No. 584,521, published Aug. 15, 1950. Class 51.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Cosmetic cases. 534,380, Dec. 5; Serial No. 584,886, published Aug. 15, 1950. Class 3.
Arguimbau & Ramee, New York, to Mawer-Gulden-Annis, Inc., Brooklyn, N. Y. Olives. 80,969, re-renewed Feb. 21, 1951. O. G. Dec. 5. Class 46.
Arkwright Incorporated: *See*—
Arkwright Merchandising Corporation.
Arkwright Merchandising Corporation, New York, N. Y., assignor to Arkwright Incorporated, New York, N. Y. Pocketbooks, hand bags, billfolds, etc. 534,301, Dec. 5; Serial No. 579,473, published Aug. 15, 1950. Class 3.

Arnold, Charles, trading as Earco Company, Chicago, Ill. Ear drops. 444,351, Dec. 5; Serial No. 524,851, published Aug. 22, 1950. Class 18.

Artistic Foundations, Inc., New York, N. Y. Brassières. 534,445, Dec. 5; Serial No. 590,007, published Sept. 5, 1950. Class 39.

Associated Merchandising Corporation, The, New York, N. Y. Men's, women's, and children's boots, galoshes, dress rubbers, etc. 534,384, Dec. 5; Serial No. 585,007, published Aug. 22, 1950. Class 39.

Associated Merchandising Corporation, The, New York, N. Y. Bill folds, wallets, pocketbooks, etc. 534,458, Dec. 5; Serial No. 591,548, published Aug. 29, 1950. Class 3.

Associated Merchandising Corporation, The, New York, N. Y. Men's shoes. 534,512, Dec. 5; Serial No. 585,008. Class 39.

Atlantic Manufacturing Corporation, Brooklyn, N. Y. Local anesthetic material. 534,353, Dec. 5; Serial No. 583,729, published Sept. 5, 1950. Class 18.

Attorney General of the United States of America: *See*—
Mulhens, Paul P.

Ayoub, Joseph A., doing business as Blou-Slip Co., San Francisco, Calif. Ladies' and misses' blouses, skirts, and combination garments. 534,518, Dec. 5; Serial No. 595,586. Class 39.

Baldwin Perfumer: *See*—
Baldwin Perfumery Co., The.

Baldwin Perfumery Co., The, to Walter W. Baldwin, doing business as Baldwin Perfumer, Chicago, Ill. Perfumery, toilet water, sachet powders, etc. 79,318, re-renewed Aug. 30, 1950. O. G. Dec. 5. Class 51.

Baldwin, Walter W.: *See*—
Baldwin Perfumery Co., The.

Bamberger, L., & Co., Newark, N. J., to R. H. Macy & Co., Inc., New York, N. Y. Bon-bons, chocolates, and candies. 278,511, renewed Dec. 23, 1950. O. G. Dec. 5. Class 46.

Baraboo Bottling Works: *See*—
Altpeter, Oscar.

Barkin, Levin & Co., Inc., New York, N. Y. Ladies', misses', and small women's coats. 534,500, Dec. 5; Serial No. 577,935. Class 39.

Bates, C. J., & Son, Chester, Conn. Crochet hooks and knitting needles. 534,446, Dec. 5; Serial No. 590,067, published Aug. 29, 1950. Class 40.

Beichman & Vogel, Baltimore, Md. Men's slacks. 534,387, Dec. 5; Serial No. 585,100, published Aug. 29, 1950. Class 39.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Hand saws, crosscut saws and saw handles. 534,462, Dec. 5; Serial No. 595,354, published Aug. 29, 1950. Class 23.

Bemis Bro. Bag Company, St. Louis, Mo. Bag sewing twine. 534,302, Dec. 5; Serial No. 579,654, published Mar. 21, 1950. Class 7.

Berg, Joseph, by Joseph Berg Manufacturing Stationer Inc., New York, N. Y. Check books, account books and ledgers. 283,363, May 26, 1931. Republished Dec. 5. Class 37.

Berg, Joseph, Manufacturing Stationer Inc.: *See*—
Berg, Joseph.

Berkshire Knitting Mills, Wyomissing and Reading, Pa. Hosiery. 534,470, Dec. 5; Serial No. 520,547, Class 39.

Berle Products, Minneapolis, Minn., assignor to Berle Products, Inc. Liquid composition of a medicinal nature. 534,293, Dec. 5; Serial No. 578,189, published Sept. 5, 1950. Class 18.

Berle Products, Inc.: *See*—
Berle Products.

Bernhard Ulmann Co. Inc., Long Island City, N. Y. Knitted baby garments. 534,488, Dec. 5; Serial No. 565,893. Class 39.

Bernstein, Philip, Flushing, N. Y. Little girls' panties. 534,435, Dec. 5; Serial No. 589,003, Sept. 5. Class 39.

Best, M. O., doing business as M. O. Best Company, Phoenix, Ariz. Fresh vegetables and melons. 534,200, Dec. 5; Serial No. 546,644, published July 11, 1950. Class 46.

Best, M. O. Company: *See*—
Best, M. O.

Best Made Silk Hosiery Company, Quakertown, Pa. Men's, women's, and children's hosiery. 264,761, renewed Dec. 3, 1949. O. G. Dec. 5. Class 39.

Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Accumulators and hydraulic power presses. 534,203, Dec. 5; Serial No. 547,609, published Sept. 5, 1950. Class 23.

Biro of London, Inc., New York, N. Y. Cigarette holders. 534,447–8, Dec. 5; Serial Nos. 590,133–4, published Sept. 12, 1950. Class 8.

Blue Bell, Inc., Greensboro, N. C. Men's, women's, boys' and girls' overalls, jumpers, work jackets, etc. 534,184, Dec. 5; Serial No. 536,993, published Jan. 31, 1950. Class 39.

Bolou-Slip Co.: *See*—
Ayoub, Joseph A.

Bolton Leathers Limited, Bolton, England. Leather. 534,228–9, Dec. 5; Serial Nos. 560,516–7, published Aug. 29, 1950. Class 1.

Bone Dry Shoe Mfg. Co., Tacoma, Wash. Leather logger shoes. 279,562, renewed Jan. 20, 1951. O. G. Dec. 5. Class 39

Boone County Coal Corporation, Sharples, W. Va. Bituminous coal. 534,207, Dec. 5; Serial No. 549,612, published July 18, 1950. Class 1.

Botany Mills, Inc., Passaic, N. J. Woolen yarn. 534,286, Dec. 5; Serial No. 577,094, published Aug. 15, 1950. Class 43.

Braniff Airways, Incorporated, Dallas, Tex. Airplane transportation and shipping of passengers, property and mail. 534,469, Dec. 5; Serial No. 584,943, published Sept. 12, 1950. Class 105.

Brauer Bros. Mfg. Co., St. Louis, Mo. Dog boots, chauffeurs' wallets, dog blankets, etc. 534,359, Dec. 5; Serial No. 583,984, published Sept. 5, 1950. Class 3.

Bridal-Ette Bride Basket, New York, N. Y. Advertising service. 534,467, Dec. 5; Serial No. 575,695, published Aug. 29, 1950. Class 101.

Bristol-Myers Company, New York, N. Y. Antihistamine preparation. 534,422, Dec. 5; Serial No. 587,378, published Aug. 29, 1950. Class 18.

Brody, F., & Sons Co., Des Moines, Iowa. Men's and boy's sheeplined coats, leather coats, leather vests, etc. 444,349, Dec. 5; Serial No. 523,943, published May 18, 1948. Class 39.

Bryan Full Fashioned Mills, Chattanooga, Tenn. Dresses for women and children. 534,508, Dec. 5; Serial No. 583,141. Class 39.

Bryo Company, The, Chicago, Ill. Flour supplement. 534,198, Dec. 5; Serial No. 546,356, published July 25, 1950. Class 46.

Bulova Watch Company, Inc., New York, N. Y. Watches. 534,498, Dec. 5; Serial No. 574,407. Class 27.

Business Publishers International Corporation to McGraw-Hill International Corporation, New York, N. Y. Periodical. 276,083, renewed Oct. 7, 1950. O. G. Dec. 5. Class 38.

Cahn, Bernard, Co., Inc., New York, N. Y. Purses and billfolds. 534,452, Dec. 5; Serial No. 590,734, published Aug. 29, 1950. Class 3.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. 534,267, Dec. 5; Serial No. 573,353, Sept. 5, 1950. Class 6.

Campari, Davide, to Davide Campari-Milano, Milan, Italy. Liquor to be drunk with simple or carbonated water and generally used as an aperient. 262,694, renewed Oct. 22, 1949. O. G. Dec. 5. Class 18.

Campbell, Henry, & Co., Limited, Belfast, Northern Ireland. Yarns and threads. 534,305, Dec. 5; Serial No. 580,222, published Aug. 29, 1950. Class 43.

Cardinal Neckwear: *See*—
Resenberg, Harry.

Caron Spinning Company, Rochelle, Ill. Worsted yarn. 534,345, Dec. 5; Serial No. 583,077, published Aug. 15, 1950. Class 43.

Carr, Lloyd G. K., Staunton, Va. External medicinal lotion. 534,311, Dec. 5; Serial No. 581,248, published Aug. 22, 1950. Class 18.

Carrollton Manufacturing Company, Carrollton, Ohio. Stainless steel cooking, kitchen, household and hospital ware. 534,216, Dec. 5; Serial No. 555,157, published Sept. 5, 1950. Class 13.

Carson Pirie, Scott, & Co., by E. H. Patterson Company, Chicago, Ill. Publication devoted to market news and other interests. 267,695, Feb. 25, 1930. Republished Dec. 5. Class 38.

Celanese Corporation of America, New York, N. Y. Textile fabrics. 534,292, Dec. 5; Serial No. 577,864, published Aug. 22, 1950. Class 42.

Chandler Heights Citrus Growers, Chandler Heights, Ariz. Fresh citrus fruits. 534,501, Dec. 5; Serial No. 578,073. Class 46.

Chaput, Henry E., administrator: *See*—
Chaput, Sylvio A.

Chaput, Sylvio A., administrator of the estate of Henry E. Chaput (deceased), doing business as The Laxatine Company, Upper Darby, Pa. Medicinal compound. 534,238, Dec. 5; Serial No. 564,080, published Aug. 15, 1950. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Pharmaceutical preparation. 398,137, Oct. 13, 1942. Republished Dec. 5. Class 18.

Chipurnoi, Perry H., Inc., New York, N. Y. Sandwich spread. 534,197, Dec. 5; Serial No. 545,443, published May 30, 1950. Class 46.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation having an action on the circulation of the blood. 534,295, Dec. 5; Serial No. 578,767, published Aug. 22, 1950. Class 18.

Cindrella Unusual Cosmetics, Inc., Memphis, Tenn. Perfumes and/or scents in a cream base. 534,255, Dec. 5; Serial No. 569,744, published Sept. 5, 1950. Class 51.

Cinefot International Corp., New York, N. Y. Photographic and cinematographic sensitized films and plates. 534,490, Dec. 5; Serial No. 567,623. Class 26.

City Stores Mercantile Company, Inc., New York, N. Y. Handbags. 534,441, Dec. 5; Serial No. 589,562, published Aug. 29, 1950. Class 3.

Clark, D. L., Company, The, Pittsburgh, Pa. Bulk candy and candy bars. 316,323, Aug. 21, 1934. Republished Dec. 5. Class 46.

Clark Thread Company, The, Wilmington, Del., and Clarkdale, Ga., now by change of name The Clark Thread Company, Inc. Pattern publications. 534,421, Dec. 5; Serial No. 587,248, published Sept. 5, 1950. Class 38.

Clark Thread Company, Inc., The: *See*—
Clark Thread Company, The.

Cleworth Publishing Co., Inc., New York, N. Y. Periodical. 534,513, Dec. 5; Serial No. 587,249. Class 38.

Collins & Aikman Corporation, Philadelphia, Pa. Pile fabrics in the piece and in cut lengths. 275,448, Sept. 23,1930. Republished Dec. 5. Class 42.

Collins & Aikman Corporation, Philadelphia, Pa. Drapery, upholstery, and carpeting fabrics. 478,721, May 11, 1948. Republished Dec. 5. Class 42.

Colorado Milling & Elevator Co., The, Denver, Colo. Wheat flour. 278,521, renewed Dec. 23, 1950. O. G. Dec. 5. Class 46.

Colorado Milling & Elevator Company, Denver, Colo., also doing business under the trading name Omaha Flour Mills Co., Omaha, Nebr., assignee of Omar Incorporated. Wheat flour. 534,256, Dec. 5; Serial No. 569,883, published June 27, 1950. Class 46.

Colt's Manufacturing Company: *See*—
Colt's Patent Fire Arms Manufacturing Co.

Colt's Patent Fire Arms Manufacturing Co., to Colt's Manufacturing Company, Hartford, Conn. Dish, silver, and glass cleaning machines and metal-parts cleaning machines. 274,550, renewed Sept. 2, 1950. O. G. Dec. 5. Class 23.

Columbia Umbrella Co., Inc., Lancaster, Pa. Umbrellas, parasols, and parts therefor. 534,365, Dec. 5; Serial No. 584,318, published Aug. 15, 1950. Class 41.

Columbian Rope Company, Auburn, N. Y. Twine. 534,289, Dec. 5; Serial No. 577,425, published Aug. 15, 1950. Class 7.

Commerce Publishing Company: *See*—
Management Magazines, Inc.

Congoleum-Nairn, Inc., Kearny, N. J. Linoleum and felt base type flexible coverings. 534,349, Dec. 5; Serial No. 583,522, published Aug. 29, 1950. Class 20.

Connell, J. M., Shoe Co., South Braintree, Mass., to J. M. Connell Shoe Co. Inc., Braintree, Mass. Boots, shoes, slippers. 277,080, renewed Nov. 4, 1950. O. G. Dec. 5. Class 39.

Connell, J. M., Shoe Co. Inc: *See*—
Connell, J. M., Shoe Co.

Consolidated Textile Co., Inc.: *See*—
Windsor Print Works, The.

Conte & Sons Packing Co., Perkasie, Pa. Pizza sauce. 534,269, Dec. 5; Serial No. 573,530, published July 18, 1950. Class 46.

Cooley, Frederic C., Jr.: *See*—
Allway Scarf Corp.

Corning Glass Works, Corning, N. Y. House organ. 534,241, Dec. 5; Serial No. 564,712, published Sept. 5, 1950. Class 38.

Cornish Wire Company, Paterson, N. J. Insulated wire. 534,250, Dec. 5; Serial No. 568,099, published Aug. 22, 1950. Class 21.

Corsetry, Inc., New York, N. Y. Corsets, girdles, and foundation garments. 534,517, Dec. 5; Serial No. 591,913. Class 39.

Cowan, Louis G., Incorporated, New York, N. Y. Newspaper columns. 534,243, Dec. 5; Serial No. 565,481, published Aug. 15, 1950. Class 38.

Crompton Company, Crompton, R. I. Corduroy fabrics. 534,190, Dec. 5; Serial No. 543,129, published May 10, 1949. Class 42.

Crompton Company, Crompton, R. I. Velvet fabrics in the piece. 534,242, Dec. 5; Serial No. 565,237, published Aug. 29, 1950. Class 42.

Dahl Pharmacal Company, Minneapolis, Minn. Medicinal preparation. 534,308, Dec. 5; Serial No. 580,773, published Aug. 22, 1950. Class 18.

Dalton Foundries, Inc., The, Warsaw, Ind. Machined metal castings. 534,193, Dec. 5; Serial No. 544,155, published Aug. 29, 1950. Class 23.

Davide Campari-Milano: *See*—
Campari, Davide.

Davies, William, Co., Inc., Chicago, Ill. Meat products; sausage; and meat loaf. 534,201, Dec. 5; Serial No. 546,671, published July 18, 1950. Class 46.

Day & Night Water Heater Co., Ltd., Monrovia, Calif., by Affiliated Gas Equipment, Inc., Cleveland, Ohio, and Monrovia, Calif. Gas space heaters. 377,309, Apr. 30, 1940. Republished Dec. 5. Class 34.

Dewey & Almy Chemical Company, North Cambridge, Mass. Separator plates. 271,165, May 27, 1930. Amended. O. G. Dec. 5. Class 21.

Dewey and Almy Chemical Company, Cambridge, Mass. Chemical compound. 409,573, Oct. 10, 1944. Amended. O. G. Dec. 5. Class 12.

Dewey and Almy Chemical Company, Cambridge, Mass. Polymeric materials. 421,159, May 21, 1946. Amended. O. G. Dec. 5. Class 1.

Diamond Whip Company: *See*—
Soreghen, George L.

Dickerson, Walker T., Co., The, Columbus, Ohio. Shoes. 274,781, renewed Sept. 9, 1950. O. G. Dec. 5. Class 39.

Dinsmore, John C., Amarillo, Tex. Sandwiches. 279,037, renewed Jan. 6, 1951. O. G. Dec. 5. Class 46.

Dodge, F. W., Corporation, New York, N. Y. Periodicals. 534,235, Dec. 5; Serial No. 563,666, published Aug. 29, 1950. Class 38.

Donfield Co.: *See*—
D'Onofrio, Rock E.

Doniger, David D., & Co. Inc., New York, N. Y. Men's and boys' wearing apparel. 534,381, Dec. 5; Serial No. 584,897, published Aug. 22, 1950. Class 39.

D'Onofrio, Rock E., doing business as Donfield Co., Syracuse, N. Y. Emollient lotion. 534,394, Dec. 5; Serial No. 585,369, published Sept. 5, 1950. Class 18.

Dowi Products, Inc., Milwaukee, Wis. Cigarette lighters. 534,443, Dec. 5; Serial No. 589,776, published Sept. 12, 1950. Class 8.

Drilling and Exploration Company, Inc., Los Angeles, Calif. Oil well drilling, geological surveying, and general oil field petroleum engineering, as contractor for others. 534,465, Dec. 5; Serial No. 537,667, published Aug. 29, 1950. Class 100.

Dun & Bradstreet, Inc., New York, N. Y. Magazines, magazine supplements and sections and statistical tables. 534,407, Dec. 5; Serial No. 586,082, published Sept. 5, 1950. Class 38.

Du Pont, E. I., de Nemours and Company: *See*—
Moran, Edward J.

Durabla Manufacturing Company, New York, N. Y. Metallic valves. 534,220, Dec. 5; Serial No. 557,027, published Aug. 15, 1950. Class 23.

Durex Abrasives Corporation, Jersey City, N. J., to Durex Abrasives Corporation, New Rochelle, N. Y. Abrasives. 279,281, renewed Jan. 13, 1951. O. G. Dec. 5. Class 4.

Durham-Enders Razor Corporation, Mystic, Conn. Razors and razor blades. 534,234, Dec. 5; Serial No. 563,113, published Aug. 22, 1950. Class 23.

Earco Company: *See*—
Arnold, Charles.

Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferedepost von Ferd. Mulhens: *See*—
Mulhens, Paul P.

Egry Register Company, The, Dayton, Ohio. Autographic registers. 534,185, Dec. 5; Serial No. 538,111, published Aug. 15, 1950. Class 23.

Electro Refractories Corporation, The, Buffalo, N. Y. Refractory cement. 275,413, Sept. 23, 1930. Corrected. O. G. Dec. 5. Class 12.

Elgin American Division of Illinois Watch Case Co.: *See*—
Illinois Watch Case Co.

Elgin, Clarence E., doing business as Pediatric Products Co., Anderson, S. C. Local anaesthetic. 534,298–9, Dec. 5; Serial Nos. 579,182–3, published Aug. 22, 1950. Class 18.

Elston Company, The: *See*—
United States Brewing Co. of Chicago.

Elton Weatherproof Co., The: *See*—
Goldblatt, Charles R.

Embassy Plastic Products, Inc., New York, N. Y. Ladies' handbags. 534,430, Dec. 5; Serial No. 588,014, published Aug. 15, 1950. Class 3.

Embrusa, Inc., New York, N. Y. Millinery braids. 534,245, Dec. 5; Serial No. 565,914, published Aug. 29, 1950. Class 40.

Empire Paper Company, Chicago, Ill. Writing paper. 534,221, Dec. 5; Serial No. 557,029, published Aug. 15, 1950. Class 37.

Erie Clothing Company, Inc., The, Chicago, Ill. Men's neckties, hats, caps, shoes, etc. 534,192, Dec. 5; Serial No. 543,910, published Aug. 29, 1950. Class 39.

Eskimo Pie Corporation, Bloomfield, N. J. Sandwiches. 534,287, Dec. 5; Serial No. 577,114, published July 18, 1950. Class 46.

Etablissements Tourneur Freres (Société Anonyme), Coulommiers (Seine-et-Marne) France. Alfalfa seeds. 534,310, Dec. 5; Serial No. 580,931, published Aug. 8, 1950. Class 1.

Euteles Manufacturing Co.: *See*—
Gallagher, J. C.

Evans, Alfred E., Company, Long Beach, Calif. Pump valves, pistons, liners, etc. 534,303, Dec. 5; Serial No. 579,743, published Sept. 12, 1950. Class 23.

Evans, John R., & Company, Camden, N. J. Leather. 534,239, Dec. 5; Serial No. 564,506, published Aug. 29, 1950. Class 1.

Fairchild Publications, Inc., New York, N. Y. Newspaper section. 534,281, Dec. 5; Serial No. 576,636, published Aug. 15, 1950. Class 38.

Fairfield Glove Co., Fairfield, Iowa. Gloves. 534,428, Dec. 5; Serial No. 587,863, published Sept. 5; 1950. Class 39.

Fairfield Glove Co., Fairfield, Iowa. Gloves. 534,429, Dec. 5; Serial No. 587,866, published Sept. 5, 1950. Class 39.

Farrington Manufacturing Company, Boston, Mass., to Farrington Manufacturing Company, Jamaica Plain, Boston, Mass. Embossing and printing machines and parts thereof. 280,020, renewed Feb. 10, 1951. O. G. Dec. 5. Class 23.

Ferguson, Harry J.: *See*—
Ferguson, Harry J., Co.

Ferguson, Harry J., Co., Jenkintown, Pa., assignee of H. J. Ferguson. Roller gravity and wheel gravity conveyors. 534,169, Dec. 5; Serial No. 510,671, published Sept. 12, 1950. Class 23.

Finkel Umbrella Frame Company, Inc., The, New York, N. Y. Rain umbrellas and umbrella frames. 534,363, Dec. 5; Serial No. 584,276, published Aug. 15, 1950. Class 41.

First Industrial Corporation, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Periodical. 534,222, Dec. 5; Serial No. 558,123, published Aug. 29, 1950. Class 38.

Foote Mineral Company, Philadelphia, Pa. Ductile zirconium metal. 421,729, June 18, 1946. Republished Dec. 5. Class 14.

Forbes & Wallace, Inc., Springfield, Mass. Shoes. 277,677, renewed Nov. 25, 1950. O. G. Dec. 5. Class 39.

Forman, Ford and Co., Minneapolis, Minn. Decorative siding and roof coatings in the nature of paint. 534,480, Dec. 5; Serial No. 550,223. Class 16.

Formfit Company, The, Chicago, Ill. Women's and misses' foundation garments. 534,179, Dec. 5; Serial No. 533,327, published Nov. 29, 1949. Class 39.

Foster-Hochberg Co., Seattle, Wash. Wearing apparel. 534,433, Dec. 5; Serial No. 588,757, published Sept. 5, 1950. Class 39.

Francine of France, Inc., Chicago, Ill. Brassières. 534,437, Dec. 5; Serial No. 589,253, published Sept. 5, 1950. Class 39.

Franklin Manufacturing Company, New York, N. Y. Piece goods. 534,510, Dec. 5; Serial No. 583,648. Class 42.

Fraser Manufacturing Co., Inc., New York, N. Y. Millinery wire and artificial flower wire. 534,454, Dec. 5; Serial No. 591,026, published Aug. 29, 1950. Class 40.

Fulton Bag & Cotton Mills, Atlanta, Ga. Fire-resistant brattice cloth. 534,504, Dec. 5; Serial No. 579,095. Class 42.

Gallagher, J. C., doing business under the name of Eutelis Manufacturing Co., Philadelphia, Pa. Preparation for the relief of common colds, etc. 534,355, Dec. 5; Serial No. 583,835, published Aug. 22, 1950. Class 18.

Gamble-Skogmo, Inc., Minneapolis, Minn. Outboard motors. 534,313, Dec. 5; Serial No. 581,415, published Aug. 29, 1950. Class 23.

Gannon, Elizabeth E., Seattle, Wash. Knitted mitten. 534,418, Dec. 5; Serial No. 587,019, published Sept. 5, 1950. Class 39.

Gapinski, John J., doing business as Senola Company, Chicago, Ill. Laxative herb tea. 534,227, Dec. 5; Serial No. 559,918, published Sept. 5, 1950. Class 18.

Gardner, Emili H., Fort Worth, Tex. Candy. 534,226, Dec. 5; Serial No. 559,599, published July 18, 1950. Class 46.

Geigy Company, Inc., New York, N. Y. Preparations for human use for the treatment of bacterial infections of the skin, etc. 444,350, Dec. 5; Serial No. 524,394, published Aug. 8, 1950. Class 18.

Gichner, Fred S., Iron Works, Inc., Washington, D. C. Designing metal work for building construction purposes, etc. 534,466, Dec. 5; Serial No. 538,530, published Sept. 12, 1950. Class 103.

Gilbert of California, Los Angeles, Calif. Men's and women's clothing. 534,495, Dec. 5; Serial No. 572,401. Class 29.

Godman, H. C., Company, The, Columbus, Ohio. Shoes. 534,249, Dec. 5; Serial No. 567,776, published Aug. 22, 1950. Class 39.

Goldberg, Joseph, & Sons, Inc., Paterson, N. J. Women's skirts, dresses, coats and suits. 534,502, Dec. 5; Serial No. 578,330. Class 39.

Goldblatt, Charles R., trading as The Elton Weatherproof Co., Manchester, England. Rainproof coats and rainproof jackets. 534,474, Dec. 5; Serial No. 538,398. Class 39.

Goodrich, B. F., Company, The, Akron, Ohio, and New York, N. Y. Overshoes. 534,187, Dec. 5; Serial No. 540,188, published July 25, 1950. Class 39.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Flexible floor covering. 534,213, Dec. 5; Serial No. 552,856, published Aug. 29, 1950. Class 20.

Grady-Travers Company, Inc., The, New York, N. Y. Non-mercerized cotton thread and yarn. 544,472, Dec. 5; Serial No. 528,785. Class 43.

Grand Forks Bottling Works, The, by Grand Forks Coca-Cola Bottling Company, Grand Forks, N. Dak. Ginger ale, cream soda, root beer, etc. 171,599, Aug. 7, 1923. Republished Dec. 5. Class 45.

Grand Forks Coca-Cola Bottling Company: *See*—
Grand Forks Bottling Works, The.

Grant Storage Battery Company, Minneapolis, Minn. Automobile fuel pumps. 534,460, Dec. 5; Serial No. 592,144, published Aug. 29, 1950. Class 23.

Green Giant Company: *See*—
Minnesota Valley Canning Company.

Gump, S. & G., Company, assignor to Gump's, Inc., San Francisco, Calif. Letter openers and paper weights. 534,386, Dec. 5; Serial No. 585,080, published Aug. 15, 1950. Class 37.

Gump's, Inc., assignee: *See*—
Gump, S. & G., Company.

Hadley, Walter H., doing business as The Sof-Tuf Company, Indianapolis, assignor to The Sof-Tuf Company, Inc., Bloomington, Ind. Cushion seal button. 534,188, Dec. 5; Serial No. 541,670, published Sept. 12, 1950. Class 40.

Hall & Co., Inc., Spartanburg, S. C. Nails, hinges, hasps, bolts, etc. 534,233, Dec. 5; Serial No. 562,850, published Sept. 5, 1950. Class 13.

Hanes Hosiery Mills Company, Winston-Salem, N. C., and New York, N. Y. Ladies' hosiery. 534,396, Dec. 5; Serial No. 585,378, published Sept. 5, 1950. Class 39.

Har-Mac Company: *See*—
Harmon, Bennie L.

Harmon, Bennie L., doing business as Har-Mac Company, New York, N. Y. Stretchable fabric bands. 534,332, Dec. 5; Serial No. 582,352, published Aug. 29, 1950. Class 40.

Hartmann Company, Racine, Wis. Hand luggage cases. 534,329–30, Dec. 5; Serial Nos. 582,304–5, published Aug. 15, 1950. Class 3.

Hat Corporation of America, Norwalk, Conn. Straw hats for men. 534,374, Dec. 5; Serial No. 584,766, published Aug. 29, 1950. Class 39.

Hawaiian Pineapple Company, Limited, Honolulu, T. H., and San Francisco, Calif. Canned pineapple, canned pineapple juice and frozen fresh pineapple. 534,202, Dec. 5; Serial No. 547,451, published July 11, 1950. Class 46.

Health Spot Shoe Company, Oconomowoc, Wis. Boots and shoes. 534,444, Dec. 5; Serial No. 589,852, published July 25, 1950. Class 39.

Hego Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. 534,457, Dec. 5; Serial No. 591,165, published Aug. 29, 1950. Class 42.

Heminway & Bartlett Mfg. Co., The, Watertown, Conn. Thread and twine. 534,294, Dec. 5; Serial No. 578,392, published Aug. 15, 1950. Class 43.

Heminway & Bartlett Mfg. Co., The, Watertown, Conn. Thread and twine. 534,328, Dec. 5; Serial No. 582,225, published Aug. 15, 1950. Class 43.

Heminway & Bartlett Manufacturing Company, The, Watertown, Conn. Thread of nylon. 534,442, Dec. 5; Serial No. 589,655, published Sept. 12, 1950. Class 43.

Henderson, Stutz: *See*—
Johnson, Grant.

Hepco Products Company: *See*—
Shapiro, Louis J.

Hess, Ethel M., doing business as Hide-A-Brush Container Co., Brook, Ind. Metal holder. 534,514, Dec. 5; Serial No. 587,727. Class 2.

Hide-A-Brush Container Co.: *See*—
Hess, Ethel M.

Hodes, M. A.: *See*—
Hodes, Morris A.

Hodes, Morris A., doing business as M. A. Hodes, Chattanooga, Tenn. Hosiery. 534,398, Dec. 5; Serial No. 585,446, published Sept. 5, 1950. Class 39.

Hoffman, Loretta R., East Cleveland, Ohio. Ladies' dresses. 279,128, renewed Jan. 6, 1951. O. G. Dec. 5. Class 39.

Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. 534,497, Dec. 5; Serial No. 575,582. Class 39.

Hunt Sisters, Chicago, Ill. Scalp oil and cream. 534,354, Dec. 5; Serial No. 583,758, published Aug. 8, 1950. Class 51.

Hunter Douglas Corporation, New York, N. Y. Umbrellas. 534,335, Dec. 5; Serial No. 582,604, published Aug. 15, 1950. Class 41.

Hunter Douglas Corporation, New York, N. Y. Venetian blind tape. 534,341, Dec. 5; Serial No. 582,900, published Aug. 15, 1950. Class 40.

Hunter Douglas Corporation, New York, N. Y. Venetian blind tape. 534,358, Dec. 5; Serial No. 583,919, published Aug. 15, 1950. Class 40.

Hutchison Manufacturing Company, Houston, Tex. Shale shakers. 534,253, Dec. 5; Serial No. 568,621, published Sept. 12, 1950. Class 23.

Hyde Park Clothes, Inc., Newport, Ky. Men's suits and topcoats. 534,503, Dec. 5; Serial No. 578,796. Class 39.

Illinois Watch Case Co., doing business as Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Jewelry. 534,237, Dec. 5; Serial No. 564,078, published May 16, 1950. Class 28.

Imperial Chemical (Pharmaceuticals) Limited, London, England. Pharmaceutical preparations. 534,385, Dec. 5; Serial No. 585,025, published Aug. 15, 1950. Class 18.

Industrial Gloves Company, Danville, Ill. Industrial safety clothing. 534,373, Dec. 5; Serial No. 584,671, published Aug. 22, 1950. Class 39.

International Braid Corp., Fall River, Mass. Ladder tapes for Venetian blinds. 534,410, Dec. 5; Serial No. 586,354, published Sept. 12, 1950. Class 40.

International Derrick & Equipment Company, Columbus, Ohio. Well-drilling, servicing and production equipment and parts thereof. 534,186, Dec. 5; Serial No. 539,419, published Sept. 12, 1950. Class 23.

International Highway Marker Co., Chicago, Ill. Highway lane dividing markers. 534,205, Dec. 5; Serial No. 548,966, published Aug. 15, 1950. Class 50.

Isler, Edwin J., doing business as A-E Laboratories, Seattle, Wash. Inhalant. 534,489, Dec. 5; Serial No. 566,825. Class 18.

Iungerich, Frank L., St. Louis, Mo. Ascorbic acid lozenges. 534,342, Dec. 5; Serial No. 582,917, published Aug. 8, 1950. Class 18.

Jaco Knitwear Inc., Griffin, Ga. Sportswear. 534,378, Dec. 5; Serial No. 584,864, published Aug. 29, 1950. Class 39.

Jacobs, Grossman & Rosenberg, Inc., Philadelphia, Pa. Children's and misses' dresses and frocks. 534,439, Dec. 5; Serial No. 589,448, published Sept. 5, 1950. Class 39.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Magnetic separators. 534,420, Dec. 5; Serial No. 587,141, published Aug. 22, 1950. Class 21.

Joanna Western Mills Company, Chicago, Ill. Draperies, upholstery and drapery fabrics in the piece. 534,183, Dec. 5; Serial No. 536,822, published Sept. 14, 1948. Class 42.

Johnson, Grant, doing business as Stutz Henderson, South Bend, Ind. Orchestral arrangements and other musical arrangements. 534,265, Dec. 5; Serial No. 573,325, published Sept. 5, 1950. Class 38.

Jones, Morgan, & Co., Inc., Waterbury, Conn. Men's, women's, and children's coats, overcoats, full dress coats, etc. 534,270, Dec. 5; Serial No. 573,881, published Aug. 29, 1950. Class 39.

Junior Formals, Inc., New York, N. Y. Misses' and women's dresses. 534,431, Dec. 5; Serial No. 588,097, published Sept. 5, 1950. Class 39.

K. C. Medical Press: *See*—
Salmon, M. C.

Katz Drug Company, Kansas City, Mo. Toilet paper. 534,262, Dec. 5; Serial No. 572,749, published Aug. 8, 1950. Class 37.

Kay-Fries Chemicals, Inc.: *See*—
Kay Laboratories, Inc.

Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Chemical product. 534,417, Dec. 5; Serial No. 586,999, published Sept. 12, 1950. Class 6.

Kay Laboratories, Inc., assignor to Kay-Fries Chemicals, Inc. to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Agricultural insecticides. 279,381, renewed Jan. 13, 1951. O. G. Dec. 5. Class 6.

Kay Laboratories, Inc., assignor to Kay-Fries Chemicals, Inc., to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Agricultural insecticides. 279,389, renewed Jan. 13, 1951. O. G. Dec. 5. Class 6.

Kendall Company, The, Boston, Mass. Dental, medical and surgical dressings and bandages. 534,461, Dec. 5; Serial No. 592,815, published Aug. 29, 1950. Class 44.

Kisskerchief, Inc., New York, N. Y. Kerchiefs and handkerchiefs. 534,392, Dec. 5; Serial No. 585,287, published Aug. 29, 1950. Class 39.

Kockums Mekaniska Verkstads Aktiebolag, Malmo, Sweden. Acoustic signalling apparatus. 534,204, Dec. 5; Serial No. 548,169, published Aug. 29, 1950. Class 23.

Koehring Company, Milwaukee, Wis. Concrete mixers, concrete distributing machines, etc. 534,178, Dec. 5; Serial No. 532,298, published Aug. 29, 1950. Class 23.

Kratt, Wm., Co., Union, N. J. Harmonicas. 544,473, Dec. 5; Serial No. 534,793. Class 36.

Kreuter-Faasen Co., by Kreuter Paint Company, Grand Rapids, Mich. Varnish and paint enamel products. 212,201, Apr. 27, 1926. Republished Dec. 5. Class 16.

Kreuter-Faasen Co., by Kreuter Paint Company, Grand Rapids, Mich. Filler-primer, sealer or suction stopper. 278,218, renewed Dec. 9, 1950. O. G. Dec. 5. Class 16.

Kreuter Paint Company: *See*—
Kreuter-Faasen Company.

Kuhls, H. B. Fred, Brooklyn, N. Y. Marine glue, canvas cement, tile cement, etc. 534,459, Dec. 5; Serial No. 591,784, published Aug. 29, 1950. Class 5.

Laboratorio Torres S. A., Sao Paulo, Brazil. Injectible pharmaceutical preparation. 534,280, Dec. 5; Serial No. 576,541, published Sept. 5, 1950. Class 18.

Lambert Manufacturing Company, Chillicothe, Mo. Men's, women's, and children's hosiery; gloves, etc. 534,515, Dec. 5; Serial No. 587,734. Class 39.

Larson, Clarence R., doing business as Larson Laboratories, Erie, Pa. Analgesic balm. 534,406, Dec. 5; Serial No. 585,944, published Aug. 29, 1950. Class 18.

Larson Laboratories: *See*—
Larson, Clarence R.

Laxatine Company, The: *See*—
Chaput, Sylvio A.

Law, John W., Co., Santa Maria and Guadalupe, Calif. Fresh vegetables. 534,173, Dec. 5; Serial No. 519,277, published June 27, 1950. Class 46.

Lee, Frank H., Company, The, Danbury, Conn., and elsewhere. Men's hats. 534,509, Dec. 5. Serial No. 583,540. Class 39.

Leewood Fabrics, Inc., New York, N. Y. Pile fabrics in the piece. 333,554, Mar. 24, 1936. Republished Dec. 5. Class 42.

Leewood Fabrics, Inc., New York, N. Y. Flat fabrics. 399,686, Jan. 26, 1943. Republished Dec. 5. Class 42.

Leon, L., Co., Inc., The, Massapequa, N. Y. Curl clips. 534,449, Dec. 5; Serial No. 590,274, published Aug. 29, 1950. Class 40.

Levine, Louis, & Sons, by Louis Levine & Sons, Inc. of Ohio, Cincinnati, Ohio. Ladies' dresses and coats. 267,535, Feb. 25, 1930. Republished Dec. 5. Class 39.

Levine, Louis, & Sons, by Louis Levine & Sons, Inc. of Ohio, Cincinnati, Ohio. Ladies' and misses' coats, suits, dresses, etc. 276,503, Oct. 21, 1930. Republished Dec. 5. Class 39.

Levine, Louis, & Sons, Inc. of Ohio: *See*—
Levine, Louis, & Sons.

Liberty Mutual Insurance Company, Boston, Mass. Underwriting of accident, liability and property insurance and reinsurance. 534,519, Dec. 5; Serial No. 577,798. Class 102.

Life Manufacturing Company, Inc., East Boston, Mass. Harness for infants. 534,346, Dec. 5; Serial No. 583,102, published Aug. 15, 1950. Class 40.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 534,326, Dec. 5; Serial No. 582,088, published Aug. 29, 1950. Class 18.

Linen Thread Co., Inc., The, New York, N. Y. Thread. 444,348, Dec. 5; Serial No. 523,689, published Aug. 15, 1950. Class 43.

Linnex Corp., New York, N. Y. Outergarments. 534,405, Dec. 5; Serial No. 585,890, published Aug. 29, 1950. Class 39.

Lit Brothers, Philadelphia, Pa. School bags. 534,450, Dec. 5; Serial No. 590,510, published Aug. 29, 1950. Class 3.

Livingston & Livingston, New York, N. Y. Ladies' and misses' sportswear, and men's polo shirts. 534,307, Dec. 5; Serial No. 580,667, published Aug. 15, 1950. Class 39.

Lockett Seed Company, Vernon, Tex. Planting seeds. 534,377, Dec. 5; Serial No. 584,821, published Aug. 29, 1950. Class 1.

Lowe, Joe, Corporation, New York, N. Y. Knitting sets. 534,304, Dec. 5; Serial No. 580,080, published Sept. 12, 1950. Class 40.

Lunt Silversmiths: *See*—
Rogers, Lunt & Bowlen Company.

Lutz, William F., doing business as William F. Lutz Enterprises, Miami, Fla. Leg paint. 534,306, Dec. 5; Serial No. 580,606, published Aug. 22, 1950. Class 18.

Lutz, William F., Enterprises: *See*—
Lutz, William F.

Macy, R. H., & Co., Inc.: *See*—
Bamberger, L., & Co.

Macy, R. H., & Co., Inc., New York, N. Y. Girls' and young women's shoes. 277,665, renewed Nov. 25, 1950. O. G. Dec. 5. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Girls' and young women's shoes. 278,229, renewed Dec. 9, 1950. O. G. Dec. 5. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Mouthwash, brilliantine, all purpose lotion, etc. 534,257, Dec. 5; Serial No. 570,108, published Aug. 29, 1950. Class 51.

Management Magazines, Inc., Chicago, Ill., to Commerce Publishing Company, St. Louis, Mo. Periodical. 271,831, renewed June 17, 1950. O. G. Dec. 5. Class 38.

Marioness & Co., Inc., New York, N. Y. Pocket purses, purse kits, wallets, etc. 534,223, Dec. 5; Serial No. 558,307, published Aug. 15, 1950. Class 3.

Markwell Manufacturing Company, Inc., New York, N. Y. Staples. 534,389, Dec. 5; Serial No. 585,175, published Sept. 5, 1950. Class 13.

Marsh, Loren W., Arlington, Mass., to Skydyne, Inc., Port Jervis, N. Y. Composite sheet. 275,133, renewed Sept. 16, 1950. O. G. Dec. 5. Class 12.

Marshall Field & Company, Chicago, Ill. Gloves. 291,811, Feb. 23, 1932. Republished Dec. 5. Class 39.

Mawer-Gulden-Annis, Inc.: *See*—
Arguimbau & Ramee.

McCoy, Jones & Company, Inc., Chicago, Ill. Rain capes, rain coats, hoods, and scarfs. 534,493, Dec. 5; Serial No. 570,215. Class 39.

McGraw-Hill International Corporation: *See*—
Business Publishers International Corporation.

Menner Packing Company: *See*—
Menner Packing Corp.

Menner Packing Corp., Newark, N. J., assignee of Menner Packing Company. Canned Spanish rice, canned macaroni with creole sauce, canned beef stew, etc. 534,476, Dec. 5; Serial No. 542,776. Class 46.

Merck & Co., Inc., Rahway, N. J. Antibiotic preparations. 534,315, Dec. 5; Serial No. 581,603, published Sept. 5, 1950. Class 18.

Metcalf Brothers & Co., New York, N. Y. Woolen piece goods. 280,054, renewed Feb. 10, 1951. O. G. Dec. 5. Class 42.

Micro Library Incorporated, The, La Crosse, Wis. Publications. 543,191, Dec. 5; Serial No. 543,825, published Jan. 24, 1950. Class 38.

Mid-States Gummed Paper Co., Chicago, Ill. Kraft paper, bond paper, manila paper, etc. 534,189, Dec. 5; Serial No. 543,012, published May 2, 1950. Class 37.

Milk Producers Association of Central California, Modesto, Calif. Butter and evaporated milk. 534,273, Dec. 5; Serial No. 574,633, published July 18, 1950. Class 46.

Milko Cone & Baking Co., Inc., Chicago, Ill. Drinking straws. 534,408, Dec. 5; Serial No. 586,102, published Aug. 15, 1950. Class 50.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Gold chloride, iron sulfate, magnesium sulfate, etc. 534,314, Dec. 5; Serial No. 581,535, published Aug. 29, 1950. Class 6.

Milo Tanning Corporation, South Paris, Maine. Leather. 534,400, Dec. 5; Serial No. 585,597, published Aug. 29, 1950. Class 1.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
First Industrial Corporation.

Minnesota Valley Canning Company, Le Sueur, Minn., now by change of name Green Giant Company. Canned corn and canned peas. 534,516, Dec. 5; Serial No. 590,940. Class 46.

Monroe Shirt Company: *See*—
Silfen, Mayer.

Moore Grocery Co., doing business as The Sledge Manufacturing Co., Tyler, Tex. Children's overalls and playsuits. 534,401, Dec. 5; Serial No. 585,658, published Aug. 29, 1950. Class 39.

Moore Grocery Co., doing business as The Sledge Manufacturing Co., Tyler, Tex. Men's work shirts, jackets, trousers, etc. 534,402, Dec. 5; Serial No. 585,659, published Aug. 29, 1950. Class 39.

Moran, Edward J., Chicago, Ill., to E. I. du Pont de Nemours and Company, Wilmington, Del. Gassed rubber composition. 275,189, renewed Sept. 16, 1950. O. G. Dec. 5. Class 50.

Morrison, Bret, New York, N. Y. Ladies' and men's play shorts. 534,336, Dec. 5; Serial No. 582,641, published Aug. 15, 1950. Class 39.

Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Twine and cord. 534,434, Dec. 5; Serial No. 588,807, published Sept. 12, 1950. Class 7.

Mueller Co., Decatur, Ill. Tapping machines and parts thereof, drilling machines and parts thereof, etc. 534,196, Dec. 5; Serial No. 545,154, published Sept. 5, 1950. Class 23.

Mulhens, Paul P., doing business as Eau de Cologne- & Parfumerie-Fabrik "Glockengasse No. 4711" gegenuber der Pferdedepot von Ferd. Mulhens, Cologne-on-the-Rhine, Germany, vested in Attorney General of the United States, Washington, D. C., and renewed to him. Soaps. 274,603–4, renewed Sept. 2, 1950. O. G. Dec. 5. Class 51.

National Blank Book Company, Holyoke, Mass. Loose leaf book paper. 534,195, Dec. 5; Serial No. 544,897, published May 23, 1950. Class 37.

National Cylinder Gas Company, Chicago, Ill. Equipment and apparatus used in the handling and administering of medicinal gases, etc. 534,248, Dec. 5; Serial No. 567,003, published Aug. 29, 1950. Class 44.

National Licorice Company, Brooklyn, N. Y. Lozenges for the treatment of coughs, colds, and sore throats. 534,419, Dec. 5; Serial No. 587,120, published Aug. 29, 1950. Class 18.

National Metal Edge Box Company, Philadelphia, Pa. Machines for making metal stays. 534,224, Dec. 5; Serial No. 558,579, published Sept. 5, 1950. Class 23.

National Shirt Shops of Delaware, Inc., New York, N. Y. Men's dress and negligee shirts. 534,369, Dec. 5; Serial No. 584,541, published Aug. 15, 1950. Class 39.

National Shirt Shops of Delaware, Inc., New York, N. Y. Men's dress and negligee shirts, underwear, and pajamas. 534,370, Dec. 5; Serial No. 584,542, published Aug. 15, 1950. Class 39.

National Silver Company, New York, N. Y. Silverplated flatware. 534,492, Dec. 5; Serial No. 568,519. Class 28.

Neilson Chemical Company, Detroit, Mich. Chemical preparation. 534,168, Dec. 5; Serial No. 504,858, published Feb. 28, 1950. Class 52.

Niepold's, Washington, D. C. Electric stand lamps, electric portrait lights, indirect electric lamps, etc. 534,277, Dec. 5; Serial No. 575,777, published Aug. 22, 1950. Class 21.

"Nofast" Mfg. & Distb. Company, The, Denver, Colo. Anti-acid, emollient, lubricating, and mildly laxative pharmaceutical preparation. 534,414, Dec. 5; Serial No. 586,762, published Aug. 29, 1950. Class 18.

Norcross, Inc., New York, N. Y. Greeting cards. 534,282, Dec. 5; Serial No. 576,768, published Aug. 29, 1950. Class 38.

Nordby, Birger, Oslo, Norway. Ottomans and mountings therefor. 534,210, Dec. 5; Serial No. 550,823, published Aug. 22, 1950. Class 32.

Norrad Sportswear, New York, N. Y. Sport shirts, basque shirts, polo shirts, etc. 534,279, Dec. 5; Serial No. 576,350, published Aug. 15, 1950. Class 39.

North, H. W., Company, The, Erie, Pa. Abrasion and corrosion resisting metallic alloy grinding balls and linings. 534,214, Dec. 5; Serial No. 552,870, published Sept. 5, 1950. Class 23.

North, H. W., Company, The, Erie, Pa. Ceramic and porcelain grinding balls and linings. 534,215, Dec. 5; Serial No. 552,871, published Sept. 5, 1950. Class 23.

North American Refractories Company, Cleveland, Ohio. High temperature bonding mortar. 275,129, renewed Sept. 16, 1950. O. G. Dec. 5. Class 12.

North Atlantic Packing Company, Boston, Mass. Canned sea mussels, canned clam chowder, sardine cocktail spread, etc. 534,251, Dec. 5; Serial No. 568,325, published July 11, 1950. Class 46.

O-P Craft Co., Inc., The, Sandusky, Ohio. Mediums used in setting colors to produce a textile paint. 274,598, renewed Sept. 2, 1950. O. G. Dec. 5. Class 16.

Occo Products, assignor to Occo Products Company, Minneapolis, Minn. Cartridges containing compressed oxygen. 534,290, Dec. 5; Serial No. 577,492, published Sept. 12, 1950. Class 6.

Occo Products Company, assignee: *See*—
Occo Products.

Odin Corporation, Chicago, Ill. Cutting tools, hydraulic actuating units, etc. 444,345, Dec. 5; Serial No. 496,261, published Aug. 29, 1950. Class 23.

Omaha Flour Mills Co.: *See*—
Colorado Milling & Elevator Company.

Omar Incorporated: *See*—
Colorado Milling & Elevator Company.

Oxford Laboratories, Incorporated, Dayton, Va. Aspirin and niacin compound. 534,372, Dec. 5; Serial No. 584,591, published Aug. 15, 1950. Class 18.

Pacific Mills, New York, N. Y., and Boston, Mass. Woolen fabrics in the piece. 534,505, Dec. 5; Serial No. 580,744. Class 42.

Paquin Limited, Paris, France. Perfumes, toilet water, face powder, etc. 534,246, Dec. 5; Serial No. 566,359, published Sept. 6, 1949. Class 51.

Parke, Davis & Company, Detroit, Mich. Sympathicolytic preparation. 534,322, Dec. 5; Serial No. 581,777, published Sept. 5, 1950. Class 18.

Parkland Sportswear Co., Inc., Dallas, Tex. Ladies', misses', and junior misses' sportswear and clothing. 534,362, Dec. 5; Serial No. 584,150, published Sept. 5, 1950. Class 39.

Parrish, Nina E., Kalamazoo, Mich. Framed luminescent pictures. 534,423, Dec. 5; Serial No. 587,499, published Sept. 5, 1950. Class 38.

Patrolmen's Benevolent Association of the City of New York, New York, N. Y. Periodical. 534,343, Dec. 5; Serial No. 582,922, published Aug. 15, 1950. Class 38.

Patterson, E. H., Company: *See*—
Carson Pirie Scott & Co.

Paulsboro Manufacturing Company, Jersey City, N. J., and Philadelphia, Pa. Flexible hard surface, wall, floor, and table top covering materials. 534,333–4, Dec. 5; Serial Nos. 582,444–5, published Aug. 29, 1950. Class 20.

Peau d'Or Sales Corporation, Miami, Fla. Medicinal antiseptic preparation. 534,375, Dec. 5; Serial No. 584,773, published Sept. 5, 1950. Class 18.

Pediatric Products Co.: *See*—
Elgin, Clarence E.

Peerless Roll Leaf Co., Inc., Union City, N. J. Imitation metal leaf and pigment mounted on a roll of paper. 534,211, Dec. 5; Serial No. 551,399, published Sept. 5, 1950. Class 11.

Pelton Water Wheel Company, The, San Francisco, Calif. Free discharge valves, gate valves, by-pass valves, etc. 534,180, Dec. 5; Serial No. 534,552, published Sept. 12, 1950. Class 23.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible metallic tubing. 80,870, renewed Feb. 7, 1951. O. G. Dec. 5. Class 35.

Petersen, Carl A., Chicago, Ill. Series of articles. 534,352, Dec. 5; Serial No. 583,708, published Sept. 5, 1950. Class 38.

Phillips Petroleum Company, Bartlesville, Okla. Wearing apparel. 534,276, Dec. 5; Serial No. 575,429, published Aug. 15, 1950. Class 39.

Pollak, Henry, Inc., New York, N. Y. Straw hat bodies. 534,274, Dec. 5; Serial No. 574,729, published Aug. 29, 1950. Class 39.

Pollak, Henry, Inc., New York, N. Y. Hat braids. 534,424, Dec. 5; Serial No. 587,505, published Aug. 15, 1950. Class 40.

Pollak, Henry, Inc., New York, N. Y. Hat braids. 534,436, Dec. 5; Serial No. 589,169, published Aug. 29, 1950. Class 40.

Pontarelli, Rocco, Providence, R. I. Ornaments. 444,347, Dec. 5; Serial No. 523,615, published Aug. 15, 1950. Class 50.

Porte Publishing Company, Salt Lake City, Utah. Loose-leaf catalogs, sections thereof and additions thereto. 534,275, Dec. 5; Serial No. 575,157, published Aug. 22, 1950. Class 38.

Precision Scientific Company, Chicago, Ill. Magazine. 534,361, Dec. 5; Serial No. 584,076, published Aug. 15, 1950. Class 38.

Presto Electric Co., Union City, N. J. Electrical appliances. 420,205, Apr. 2, 1940. Amended. O. G. Dec. 5. Class 21.

Progressive Leather Goods Company: *See*—
Segal, Ted M.

Progressive Leather Goods Corp.: *See*—
Segal, Ted M.

Prudential Paper Products Co., Inc., New York, N. Y. Writing papers, tablets, notebooks, etc. 534,300, Dec. 5; Serial No. 579,211, published Aug. 15, 1950. Class 37.

Public Service Interstate Transportation Company, Newark, N. J. Bulletins, notices, and other publications. 534,350, Dec. 5; Serial No. 583,348, published Aug. 15, 1950. Class 38.

Publishers Syndicate, Chicago, Ill. Comic strip. 534,291, Dec. 5; Serial No. 577,732, published Sept. 5, 1950. Class 38.

Pyro Plastics Corporation, Union, N. J. Belt buckles. 534,337, Dec. 5; Serial No. 582,647, published Sept. 5, 1950. Class 40.

Rainwear Supply, Incorporated, Passaic, N. J. Waterproof coated rayon taffeta. 534,479, Dec. 5; Serial No. 549,338. Class 42.

Reed, E. P., & Co., Rochester, N. Y. Ladies' shoes. 534,486, Dec. 5; Serial No. 563,367. Class 39.

Reeve-Foster Company, Inc., Teaneck, N. J. Reconditioning and repairing Venetian blinds. 534,468, Dec. 5; Serial No. 583,661, published Sept. 5, 1950. Class 103.

Regan, John F., doing business under the trade name and style of The John F. Regan Co., New York, N. Y. Twine. 534,426–7, Dec. 5; Serial Nos. 587,752–3, published Sept. 12, 1950. Class 7.

Ragan, John F., doing business under the trade name and style of The John F. Regan Co., New York, N. Y. Twine, tying thread, clothesline, etc. 534,451, Dec. 5; Serial No. 590,619, published Aug. 29, 1950. Class 7.

Regan, John F., Co., The: *See*—
Regan, John F.

Resin Industries, Santa Barbara, Calif. Plant ties. 534,351, Dec. 5; Serial No. 583,662, published Aug. 15, 1950. Class 7.

Resort Airlines, Inc., Pinehurst, N. C. Planning and personally conducting tours by airplane. 534,464, Dec. 5; Serial No. 527,587, published Aug. 29, 1950. Class 105.

Riddle, Fred E., doing business as Sioux City Dehydrating and Processing Company, Sioux City, Iowa. Livestock and poultry feeds. 534,285, Dec. 5; Serial No. 577,018, published July 18, 1950. Class 46.

Rochester Button Company, Rochester, N. Y. Buttons. 534,404, Dec. 5; Serial No. 585,813, published Aug. 29, 1950. Class 40.

Rochester Button Company, Rochester, N. Y. Buttons. 534,411, Dec. 5; Serial No. 586,432, published Sept. 12, 1950. Class 40.

Rochester Button Company, Rochester, N. Y. Buttons. 534,432, Dec. 5; Serial No. 588,597, published Sept. 5, 1950. Class 40.

Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Knives, forks, spoons, food pushers, etc. 534,316, Dec. 5; Serial No. 581,614, published Sept. 5, 1940. Class 28.

Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Knives, forks, spoons, food pushers, etc. 534,317–20, Dec. 5; Serial Nos. 581,616–20, published Sept. 5, 1950. Class 28.

Rogers, Lunt & Bowlen Company, doing business as Lunt Silversmiths, Greenfield, Mass. Knives, forks, spoons, food pushers, etc. 534,324, Dec. 5; Serial No. 581,988, published Sept. 5, 1950. Class 28.

Root, Myron, and Company, Inc., Medford, Oreg. Fresh pears. 534,393, Dec. 5; Serial No. 585,343, published July 18, 1950. Class 46.

Rosenberg, Harry, doing business as Cardinal Neckwear, New York, N. Y. Men's neckwear. 534,511, Dec. 5; Serial No. 584,641. Class 39.

Roth, Chester H., Co., Inc., New York, N. Y. Hosiery. 534,297, Dec. 5; Serial No. 578,900, published Sept. 5, 1950. Class 39.

Royer Foundry & Machine Company, Kingston, Pa. Sand separators, sand blenders, scrap removers, etc. 534,181, Dec. 5; Serial No. 534,823, published Aug. 15, 1950. Class 23.

Salmon, M. C., doing business as K. C. Medical Press, North Kansas City, Mo. Books and series of books. 534,507, Dec. 5; Serial No. 581,904. Class 38.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Preparation for killing rats and mice. 534,344, Dec. 5; Serial No. 583,001, published Aug. 29, 1950. Class 6.

Scherrer, E. C., Inc., New York, N. Y. Synthetic braids used in the manufacture of hat bodies. 534,258, Dec. 5; Serial No. 570,988, published Sept. 12; 1950. Class 40.

Scherrer, E. C., Inc., New York, N. Y. Braids. 534,453, Dec. 5; Serial No. 590,763, published Sept. 5, 1950. Class 40.

Schieffelin & Co., New York, N. Y., to Sharp & Dohme, Incorporated, Philadelphia, Pa. Analgesic and antiseptic. 80,553, re-renewed Jan. 3, 1951. O. G. Dec. 5. Class 18.

Schloss & Kahn Grocery Company, Montgomery, Ala. Salad and cooking oil, coffee, tea, etc. 534,231, Dec. 5; Serial No. 562,408, published July 18, 1950. Class 46.

Schloss & Kahn Grocery Company, Montgomery, Ala. Canned fruits, canned vegetables, canned fish, etc. 534,240, Dec. 5; Serial No. 564,656, published July 18, 1950. Class 46.

Schneierson I., & Sons., Inc., New York, N. Y. Princess slips, nightgowns, ladies' uniforms. 534,478, Dec. 5; Serial No. 548,414. Class 39.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. 534,199, Dec. 5; Serial No. 546,517, published Aug. 22, 1950. Class 39.

Scurich, Stephen, Watsonville, Calif. Carton-like box. 534,498, Dec. 5; Serial No. 575,603. Class 2.

Seamprufe, Incorporated, New York, N. Y. Women's apparel. 534,288, Dec. 5; Serial No. 577,144, published Sept. 5, 1950. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Auger bits, axes, backsaws, etc. 534,259, Dec. 5; Serial No. 571,096, published Aug. 22, 1950. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Men's, young men's, and youths' outer clothing. 534,485, Dec. 5; Serial No. 559,349. Class 39.

Segal, Ted M., doing business as Progressive Leather Goods Company, West New York, N. J., assignor to Progressive Leather Goods Corp., New York, N. Y. Leather goods. 534,284, Dec. 5; Serial No. 576,887, published Aug. 15, 1950. Class 3.

Senola Company: *See*—
Capinski, John J.

Shapiro, Louis J., doing business as Hepco Products Company, Providence, R. I. Medicinal tablets. 444,344, Dec. 5; Serial No. 488,055, published Aug. 15, 1950. Class 18.

Sharp & Dohme, Incorporated: *See*—
Schieffelin & Co.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibacterial preparation. 534,347, Dec. 5; Serial No. 583,125, published Aug. 8, 1950. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Estrogenic hormone preparation. 534,367, Dec. 5; Serial No. 584,471, published Sept. 5, 1950. Class 18.

Shaw-Barton, Inc., Coshocton, Ohio. Wall calendars. 534,278, Dec. 5; Serial No. 576,231, published Aug. 15, 1950. Class 38.

Sherman, H. B., Manufacturing Company, Battle Creek, Mich. Hose clamps and fittings, brass couplings, hose spray nozzles, etc. 534,170, Dec. 5; Serial No. 513,586, published Sept. 5, 1950. Class 13.

Sherwin-Williams Company, The, Cleveland, Ohio. Chemicals. 534,312, Dec. 5; Serial No. 581,383, published Sept. 5, 1950. Class 6.

Sigma Nu Fraternity, Indianapolis, Ind. Men's college jackets, men's T shirts. 534,174, Dec. 5; Serial No. 523,426, published Aug. 22, 1950. Class 39.

Sigma Nu Fraternity, Indianapolis, Ind. Men's college jackets, men's T shirts. 534,175, Dec. 5; Serial No. 526,303, published Aug. 15, 1950. Class 39.

Sigma Nu Fraternity, Indianapolis, Ind. Men's college jackets, men's T shirts. 534,176, Dec. 5; Serial No. 526,304, published Aug. 22, 1950. Class 39.

Silfen, Mayor, doing business as Monroe Shirt Company, New York, N. Y. Boys' and youths' dress, negligee and work shirts and blouses, etc. 534,230, Dec. 5; Serial No. 561,410, published Aug. 8, 1950. Class 39.

Sioux City Dehydrating and Processing Company: *See*—
Riddle, Fred E.

Sirac, Inc., Brooklyn, N. Y. Covers of canvas, plastic and sport topping for shoe cases and hat cases. 534,340, Dec. 5; Serial No. 582,863, published Aug. 15, 1950. Class 3.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics of silk, wool, cotton, etc. 534,455, Dec. 5; Serial No. 591,111, published Aug. 29, 1950. Class 42.

Skydyne, Inc.: *See*—
Marsh, Loren W.

Sledge Manufacturing Co., The: *See*—
Moore Grocery Co.

Sloane, W. & J., New York, N. Y. Linoleum and resilient plastic composition floor tile. 534,325, Dec. 5; Serial No. 582,066, published Aug. 29, 1950. Class 20.

Smith, Frank, Silver Company, Gardner, Mass. Sterling silver tableware. 534,484, Dec. 5; Serial No. 556,927. Class 28.

Smith, Kline & French Laboratories, Philadelphia, Pa. Preparation for the treatment of obesity. 534,379, Dec. 5; Serial No. 584,877, published Sept. 5, 1950. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for the treatment of anemia. 534,383, Dec. 5; Serial No. 584,996, published Sept. 5, 1950. Class 18.

Smith, Oscar P., Lincolnton, N. C. Preparation for the treatment of asthma, hay fever, etc. 534,348, Dec. 5; Serial No. 583,496, published Aug. 8, 1950. Class 18.

Smith, S. H., Co., The, Indianapolis, Ind. Periodical publication. 534,425, Dec. 5; Serial No. 587,567, published Sept. 5, 1950. Class 38.

Societe a Responsabilite Limitee J. Thiriez Pere & Fils & Cartier-Bresson, Paris, France. Thread and yarn 534,440, Dec. 5; Serial No. 589,477, published Sept. 5, 1950. Class 43.

Sof-Tuf Company, The: *See*—
Hadley, Walter H.

Sof-Tuf Company, Inc., The, assignee: *See*—
Hadley, Walter H.

Solo Products Corporation, New York, N. Y. Bob pins. 534,206, Dec. 5; Serial No. 549,477, published Aug. 15, 1950. Class 40.

Sonia Infants Wear Co., Inc., New York, N. Y. Children's and infants' wear. 534,463, Dec. 5; Serial No. 597,032, published Sept. 5, 1950. Class 39.

Sonneborn, L., Sons, Inc., New York, N. Y. U. S. P. Petrolatum. 534,271, Dec. 5; Serial No. 574,063, published Aug. 15, 1950. Class 18.

Soreghen, George L., doing business as Diamond Whip Company, Chicago, Ill. Rope lariats and lariat rope. 534,456, Dec. 5; Serial No. 591,115, published Aug. 29, 1950. Class 7.

Spinnerin Yarn Co., Inc., South Hackensack, N. J., and New York, N. Y. Wool yarn. 534,356, Dec. 5; Serial No. 583,893, published Aug. 15, 1950. Class 43.

Squibb, E. R., & Sons, New York, N. Y. Analgesic preparations. 534,371, Dec. 5; Serial No. 584,554, published Aug. 22, 1950. Class 18.

Stag Clothes, Inc., Philadelphia, Pa. Trousers for men and boys. 534,225, Dec. 5; Serial No. 558,760, published Aug. 22, 1950. Class 39.

Standard Brands Incorporated, New York, N. Y. Coffee. 280,643, renewed Feb. 24, 1951. O. G. Dec. 5. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. 280,648, renewed Feb. 24, 1951. O. G. Dec. 5. Class 46.

Standard Brands Incorporated, Dover, Del., Cincinnati, Ohio, and New York, N. Y., to Standard Brands Incorporated, New York, N. Y. Frozen eggs. 280,695, renewed Feb. 24, 1951. O. G. Dec. 5. Class 46.

Standard Knitting Mills, Inc., Knoxville, Tenn. Men's and boy's knitted underwear. 534,483, Dec. 5; Serial No. 554,625. Class 39.

Startex Mills, Tucapau, S. C. Crash goods in the piece, etc. 534,167, Dec. 5; Serial No. 489,363, published Aug. 29, 1950. Class 42.

Steel Publications, Inc., Pittsburgh, Pa. Annual publication. 534,382, Dec. 5; Serial No. 584,930, published Aug. 15, 1950. Class 38.

Stein, Hall & Company, Inc., New York, N. Y. Paper size. 534,391, Dec. 5; Serial No. 585,252, published Aug. 29, 1950. Class 5.

Stein, S. & Co., Inc., New York, N. Y. Woolen fabrics. 534,475, Dec. 5; Serial No. 540,933. Class 42.

Sterling Plastics Co., Township of Union and Union, N. J. Plastic hair curlers. 534,252, Dec. 5; Serial No. 568,335, published Aug. 29, 1950. Class 40.

Stetson Shirt Co. Inc., New York, N. Y. Collars attached to men's outer shirts. 534,218, Dec. 5; Serial No. 555,968, published Aug. 29, 1950. Class 39.

Stevens, J. P., & Co., Inc., New York, N. Y. Cotton fabrics. 534,487, Dec. 5; Serial No. 564,411. Class 42.

Stevens-Wiley Manufacturing Co., Inc., The, Philadelphia, Pa. Dentifrice. 534,395, Dec. 5; Serial No. 585,400, published Aug. 8, 1950. Class 51.

Superior Metal Products Company, New York, N. Y., and St. Paul, Minn. Ladles. 534,412, Dec. 5; Serial No. 586,662, published Aug. 22, 1950. Class 23.

Superior Switchboard & Devices Company, The, Canton, Ohio. Electric meter-testing switches, etc. 534,416, Dec. 5; Serial No. 586,943, published Aug. 29, 1950. Class 21.

Tar-Lon of Hollywood, Los Angeles, Calif. Teeth locking combs. 534,494, Dec. 5; Serial No. 572,281. Class 40.

Taube, L. S., & Co., Kansas City, Mo. Potatoes. 534,172, Dec. 5; Serial No. 516,110, published July 18, 1950. Class 46.

Taylor & Caldwell, Inc., Walkerton, Va. Canned lima beans. 280,187, renewed Feb. 10, 1951. O. G. Dec. 5. Class 46.

Taylor, David, doing business as Taylor Jewelry Company, New York, N. Y. Lapel watches. 534,481, Dec. 5; Serial No. 551,496. Class 27.

Taylor, David, doing business as Taylor Jewelry Company, New York, N. Y. Insignia, insignia pins, and service medals, etc. 534,482, Dec. 5; Serial No. 551,497. Class 28.

Taylor Jewelry Company: *See*—
Taylor, David.

Thomas Publishing Company, New York, N. Y. Periodical. 534,209, Dec. 5; Serial No. 550,461, published Feb. 15, 1949. Class 38.

Tide Water Associated Oil Company: *See*—
Tide Water Oil Company.

Tide Water Oil Company, to Tide Water Associated Oil Company, New York, N. Y. Lubricating oils. 80,390, re-renewed Dec. 13, 1950. O. G. Dec. 5. Class 15.

Timerson Canning Co., Inc., Martville, N. Y. Canned dog and cat food. 436,250, Jan. 27, 1948. Republished Dec. 5. Class 46.

Timerson Canning Co., Inc., Martville, N. Y. Canned dog and cat food. 438,050, Apr. 6, 1948. Republished Dec. 5. Class 46.

Timken-Detroit Axle Company, The, Detroit, Mich. Furnaces, boilers, water heaters and burners and component parts thereof, etc. 534,477, Dec. 5; Serial No. 546,804. Class 34.

Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. 534,364, Dec. 5; Serial No. 584,299, published Aug. 29, 1950. Class 1.

Ulen Chemical Company, The, Toledo, Ohio. Solution of potassio-argentic iodide. 534,366, Dec. 5; Serial No. 584,365, published Sept. 5, 1950. Class 18.

United Newspapers Magazine Corporation, New York, N. Y. Nationally distributed weekly magazine supplements for newspapers. 534,217, Dec. 5; Serial No. 555,375, published Aug. 22, 1950. Class 38.

United States Brewing Co.: *See*—
United States Brewing Co. of Chicago.

United States Brewing Co. of Chicago, Chicago, Ill. Malt beverage. 291,673, Feb. 23, 1932. Restricted order. O. G. Dec. 5. Class 48.

United States Brewing Co. of Chicago, now by change of name The Elston Company, assignor to United States Brewing Co., Chicago, Ill. Malt beverages. 320,606, Jan. 1, 1935. Restricted order. O. G. Dec. 5. Class 48.

Vance Publishing Corporation, Chicago, Ill. Magazine. 534,491, Dec. 5; Serial No. 568,154. Class 38.

Video Associates Inc., New York, N. Y. Television production layout. 444,352, Dec. 5; Serial No. 526,311, published Aug. 15, 1950. Class 38.

Von Kohorn, Henry, New York, N. Y. Sponges. 534,388, Dec. 5; Serial No. 585,149, published Aug. 29, 1950. Class 1.

Von Lengerke & Antoine, Chicago, Ill. Duffel bags and pack sacks. 534,212, Dec. 5; Serial No. 552,820, published Aug. 15, 1950. Class 3.

Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Slide fasteners. 534,171, Dec. 5; Serial No. 515,921, published Sept. 5, 1950. Class 13.

Walker, Mannie, & Sons Clothing Corp., New York, N. Y. Men's suits, topcoats, overcoats, etc. 534,254, Dec. 5; Serial No. 568,698, published Aug. 22, 1950. Class 39.

Warner Brothers Company, The, Bridgeport, Conn. Brassières and combinations of corsets and brassières. 534,471, Dec. 5; Serial No. 522,126. Class 39.

Washington Iron Works, Seattle, Wash. Marine and stationary Diesel engines, logging machinery, mining machinery, etc. 534,177, Dec. 5; Serial No. 530,274, published Aug. 22, 1950. Class 23.

Washington Publications, Inc., New York, N. Y. Weekly periodical. 534,390, Dec. 5; Serial No. 585,199, published Aug. 15, 1950. Class 38.

Watkins, J. R., Company, The, Winona, Minn. Home permanent hair-waving kit. 534,261, Dec. 5; Serial No. 572,225, published Aug. 29, 1950. Class 44.

Wedgeplug Valve Company, Inc., New Orleans, La. Plug valves, gate valves, globe valves, etc. 534,236, Dec. 5; Serial No. 564,020, published Sept. 5, 1950. Class 13.

Weiner, Martin, doing business as Weiner, Martin, Co., New York, N. Y. Rayon piece goods. 534,499, Dec. 5; Serial No. 575,615. Class 42.

Weiner, Martin, Co.: *See*—
Weiner, Martin.

Werk, Julius N., Fabrics, Inc., New York, N. Y. Rayon piece goods. 444,064, July 4, 1950. Republished Dec. 5. Class 42.

West, Max H., doing business as Max H. West Company, Fayetteville, Pa. Powdered preparation for treatment of bacteria. 534,331, Dec. 5; Serial No. 582,333, published Sept. 5, 1950. Class 6.

West, Max H., Company: *See*—
West, Max H.

Whitehall Pharmacal Company, New York, N. Y. Hemorrhoidal suppositories. 534,272, Dec. 5; Serial No. 574,071, published Sept. 5, 1950. Class 18.

Whitlock, C. G., Chemical Company, Springfield, Ill. Antifreeze preparation. 534,247, Dec. 5; Serial No. 566,680, published July 25, 1950. Class 6.

Whittemore, H. A., & Company, Inc.: *See*—
Whittemore, Horace A.

Whittemore, Horace A., to H. A. Whittemore & Company, Inc., Boston, Mass. Hockey-sticks and fishing-tackle. 81,043, re-renewed Feb. 21, 1951. O. G. Dec. 5. Class 22.

Wilson, Leon L.: *See*—
Allway Scarf Corp.

Wilson & Toomer Fertilizer Company, Jacksonville, Fla. Fertilizers and fertilizer materials. 279,641, renewed Jan. 20, 1951. O. G. Dec. 5. Class 10.

Windsor Print Works, The, North Adams, Mass., and New York, N. Y., to Consolidated Textile Co., Inc., New York, N. Y. Plain white, dyed and printed percale. 80,334, re-renewed Dec. 6, 1950. O. G. Dec. 5. Class 42.

Winslow, Leonard F., Richmond, Va. Litter material. 534,244, Dec. 5; Serial No. 565,834, published Aug. 15, 1950. Class 1.

Winthrop-Stearns Inc., New York, N. Y. Male sex hormone preparation. 534,399, Dec. 5; Serial No. 585,469, published Aug. 29, 1950. Class 18.

Witco Chemical Company, Chicago, Ill. Asphaltic mastic coating. 534,283, Dec. 5; Serial No. 576,830, published Aug. 8, 1950. Class 16.

Wolverine Porcelain Enameling Co., Detroit, Mich. Vitrified metallic tile. 275,807, renewed Sept. 30, 1950. O. G. Dec. 5. Class 12.

Wonda-Brella Inc., Brooklyn, N. Y. Paper emergency umbrellas. 534,206, Dec. 5; Serial No. 578,843, published Sept. 5, 1950. Class 41.

Workman Manufacturing Company, The, Chicago, Ill. Forms interleaved with carbon sheets. 534,219, Dec. 5; Serial No. 556,302, published Aug. 22, 1950. Class 37.

Wyeth Incorporated, Philadelphia, Pa. Estrogenic hormone preparation. 534,403, Dec. 5; Serial No. 585,693, published Sept. 5, 1950. Class 18.

Wyeth Incorporated, Philadelphia, Pa. Penicillin troches. 534,409, Dec. 5; Serial No. 586,122, published Sept. 19, 1950. Class 18.

Y & Y Deodorizer Co., Philadelphia, Pa. Perfumes and deodorants. 534,338, Dec. 5; Serial No. 582,716, published Aug. 1, 1950. Class 51.

York Knitting Mills, Limited, Toronto, Canada. Underwear and outerwear. 534,194, Dec. 5; Serial No. 544,809, published Aug. 22, 1950. Class 39.

Youngstown Manufacturing, Incorporated, Youngstown, Ohio. Curtain rods, and curtain rodding and seam and edge bindings. 534,309, Dec. 5; Serial No. 580,811, published Aug. 29, 1950. Class 13.

Youthcraft Creations, Inc., New York, N. Y. Foundation garments, corsets, girdles, etc. 534,413, Dec. 5; Serial No. 586,715, published Sept. 5, 1950. Class 39.

Youth Mode Bags, Inc., New York, N. Y. Ladies', misses', and children's handbags, pocket books, and purses. 534,438, Dec. 5; Serial No. 589,292, published Aug. 29, 1950. Class 3.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Bituminous. Boone County Coal Corporation. 534,207, Dec. 5; Serial No. 549,612, published July 18, 1950.

Leather. Bolton Leathers Limited. 534,228–9, Dec. 5; Serial Nos. 560,516–17, published Aug. 29, 1950.

Leather. John R. Evans & Company. 534,239, Dec. 5; Serial No. 564,506, published Aug. 29, 1950.

Leather. Milo Tanning Corporation. 534,400, Dec. 5; Serial No. 585,597, published Aug. 29, 1950.

Leather. Albert Trostel & Sons Company. 534,364, Dec. 5; Serial No. 584,299, published Aug. 29, 1950.

Litter material. L. F. Winslow. 534,244, Dec. 5; Serial No. 565,834, published Aug. 15, 1950.

Polymeric materials. Dewey and Almy Chemical Company. 421,159, May 21, 1946. Amended. O. G. Dec. 5.

Seeds, Alfalfa. Établissements Tourneur Freres (Société Anonyme). 534,310, Dec. 5; Serial No. 580,931, published Aug. 8, 1950.

Seeds, Planting. Lockett Seed Company. 534,377, Dec. 5; Serial No. 584,821, published Aug. 29, 1950.

Sponges. H. Von Kohorn. 534,388, Dec. 5; Serial No. 585,149, published Aug. 29, 1950.

CLASS 2

Box, Carton-like. S. Scurich. 534,498, Dec. 5; Serial No. 575,603.

Holder, Metal. E. M. Hess. 534,514, Dec. 5; Serial No. 587,727.

CLASS 3

Bags, Duffel, and pack sacks. Von Lengerke & Antoine. 534,212, Dec. 5; Serial No. 552,820, published Aug. 15, 1950.

Bags, School. Lit Brothers. 534,450, Dec. 5; Serial No. 590,510, published Aug. 29, 1950.

Bill folds, wallets, pocketbooks, etc. The Associated Merchandising Corporation. 534,458, Dec. 5; Serial No. 591,548, published Aug. 29, 1950.

Cases, Cosmetic. Elizabeth Arden Sales Corporation. 534,380, Dec. 5; Serial No. 584,886, published Aug. 15, 1950.

Cases, Hand luggage. Hartmann Company. 534,329–30, Dec. 5; Serial Nos. 582,304–5, published Aug. 15, 1950.

Covers of canvas, plastic and sport topping for shoe cases and hat cases. Sirac, Inc. 534,340, Dec. 5; Serial No. 582,863, published Aug. 15, 1950.

Dog boots, chauffeurs' wallets, dog blankets, etc. Brauer Bros. Mfg. Co. 534,359, Dec. 5; Serial No. 583,984, published Sept. 5, 1950.

Handbags. City Stores Mercantile Company, Inc. 534,441, Dec. 5; Serial No. 589,562, published Aug. 29, 1950.

Handbags, Ladies'. Elizabeth Arden Sales Corporation. 534,327, Dec. 5; Serial No. 582,155, published Aug. 22, 1950.

Handbags, Ladies'. Embassy Plastic Products, Inc. 534,430, Dec. 5; Serial No. 588,014, published Aug. 15, 1950.

Handbags, pocket books, and purses, Ladies', misses', and children's. Youth Mode Bags, Inc. 534,438, Dec. 5; Serial No. 589,292, published Aug. 29, 1950.

Leather goods. T. M. Segal. 534,284, Dec. 5; Serial No. 576,887, published Aug. 15, 1950.

Pocketbooks, hand bags, billfolds, etc. Arkwright Merchandising Corporation. 534,301, Dec. 5; Serial No. 579,473, published Aug. 15, 1950.

Purses and billfolds. Bernard Cahn Co., Inc. 534,452, Dec. 5; Serial No. 590,734, published Aug. 29, 1950.

Purses, Pocket, purse kits, wallets, etc. Marioness & Co., Inc. 534,223, Dec. 5; Serial No. 558,307, published Aug. 15, 1950.

CLASS 4

Abrasives. Durex Abrasives Corporation. 279,281, renewed Jan. 13, 1951. O. G. Dec. 5.

CLASS 5

Glue, Marine, canvas cement, tile cement, etc. H. B. Fred Kuhls. 534,459, Dec. 5; Serial No. 591,784, published Aug. 29, 1950.

Paper size. Stein, Hall & Company, Inc. 534,391, Dec. 5; Serial No. 585,252, published Aug. 29, 1950.

CLASS 6

Anti-freeze preparation. C. G. Whitlock Chemical Company. 534,247, Dec. 5; Serial No. 566,680, published July 25, 1950.

Cartridges containing compressed oxygen. Occo Products. 534,290, Dec. 5; Serial No. 577,492, published Sept. 12, 1950.

Chemical product. Kay-Fries Chemicals, Inc. 534,417, Dec. 5; Serial No. 586,999, published Sept. 12, 1950.

Chemicals. The Sherwin-Williams Company. 534,312, Dec. 5; Serial No. 581,383, published Sept. 5, 1950.

Gold chloride, iron sulfate, magnesium sulfate, etc. E. S. Miller Laboratories, Inc. 534,314, Dec. 5; Serial No. 581,535, published Aug. 29, 1950.

Insecticide. Anco Laboratories. 534,264, Dec. 5; Serial No. 573,111, published Sept. 5, 1950.

Insecticides, Agricultural. Kay Laboratories, Inc. 279,381, renewed Jan. 13, 1951. O. G. Dec. 5.

Insecticides, Agricultural. Kay Laboratories, Inc. 279,389, renewed Jan. 13, 1951. O. G. Dec. 5.

Parasiticides. California Spray-Chemical Corporation. 534,267, Dec. 5; Serial No. 573,353, published Sept. 5, 1950.

Powdered preparation for treatment of bacteria. M. H. West. 534,331, Dec. 5; Serial No. 582,333, published Sept. 5, 1950.

Preparation for killing rats and mice. Dr. Salsbury's Laboratories. 534,344, Dec. 5; Serial No. 583,001, published Aug. 29, 1950.

CLASS 7

Rope lariats and lariat rope. G. L. Soreghen. 534,456, Dec. 5; Serial No. 591,115, published Aug. 29, 1950.

Ties, Plant. Resin Industries. 534,351, Dec. 5; Serial No. 583,662, published Aug. 15, 1950.

Twine. Columbian Rope Company. 534,289, Dec. 5; Serial No. 577,425, published Aug. 15, 1950.

Twine. J. F. Regan. 534,426–7, Dec. 5; Serial Nos. 587,752–3, published Sept. 12, 1950.

Twine and cord. Mt. Vernon-Woodberry Mills, Inc. 534,434, Dec. 5; Serial No. 588,807, published Sept. 12, 1950.

Twine, Bag sewing. Bemis Bro. Bag Company. 534,302, Dec. 5; Serial No. 579,654, published Mar. 21, 1950.

Twine, tying thread, clothesline, etc. J. F. Regan. 534,451, Dec. 5; Serial No. 590,619, published Aug. 29, 1950.

CLASS 8

Holders, Cigarette. Biro of London, Inc. 534,447–8, Dec. 5; Serial Nos. 590,133–4, published Sept. 12, 1950.

Lighters, Cigarette. Dowi Products, Inc. 534,443, Dec. 5; Serial No. 589,776, published Sept. 12, 1950.

CLASS 10

Fertilizers and fertilizer materials. Wilson & Toomer Fertilizer Company. 279,641, renewed Jan. 20, 1951. O. G. Dec. 5.

CLASS 11

Metal leaf and pigment mounted on a roll of paper, Imitation. Peerless Roll Leaf Co., Inc. 534,211, Dec. 5; Serial No. 551,399, published Sept. 5, 1950.

CLASS 12

Cement, Refractory. The Electro Refractories Corporation. 275,413, Sept. 23, 1930. Corrected. O. G. Dec. 5.

Chemical compound. Dewey and Almy Chemical Company. 409,573, Oct. 10, 1944. Amended. O. G. Dec. 5.

Composite sheet. L. W. Marsh. 275,133, renewed Sept. 16, 1950. O. G. Dec. 5.

Mortar, High temperature bonding. North American Refractories Company. 275,129, renewed Sept. 16, 1950. O. G. Dec. 5.

Tile, Vitrified metallic. Wolverine Porcelain Enameling Co. 275,807, renewed Sept. 30, 1950. O. G. Dec. 5.

CLASS 13

Clamps and fittings, Hose, brass couplings, hose spray nozzles, etc. H. B. Sherman Manufacturing Company. 534,170, Dec. 5; Serial No. 513,586, published Sept. 5, 1950.

Fasteners, Slide. Waldes Koh-I-Noor, Inc. 534,171, Dec. 5; Serial No. 515,921, published Sept. 5, 1950.

Nails, hinges, hasps, bolts, etc. Hall & Co., Inc. 534,233, Dec. 5; Serial No. 562,850, published Sept. 5, 1950.

Pins, Cotter. American Chain & Cable Company, Inc. 534,260, Dec. 5; Serial No. 571,697, published Aug. 22, 1950.

Rods, Curtain, and curtain rodding and seam and edge bindings. Youngstown Manufacturing, Incorporated. 534,309, Dec. 5; Serial No. 580,811, published Aug. 29, 1950.

Staples. Markwell Manufacturing Company, Inc. 534,389, Dec. 5; Serial No. 585,175, published Sept. 5, 1950.

Valves, Plug, gate valves, globe valves, etc. Wedgeplug Valve Company, Inc. 534,236, Dec. 5; Serial No. 564,020, published Sept. 5, 1950.

Ware, Stainless steel cooking, kitchen, household, and hospital. Carrollton Manufacturing Company. 534,216, Dec. 5; Serial No. 555,157, published Sept. 5, 1950.

CLASS 14

Zirconium metal, Ductile. Foote Mineral Company. 421,729, June 18, 1946. Republished Dec. 5.

CLASS 15

Oils, Lubricating. Tide Water Oil Company. 80,390, re-renewed Dec. 13, 1950. O. G. Dec. 5.

CLASS 16

Coating, Asphaltic mastic. Witco Chemical Company. 534,283, Dec. 5; Serial No. 576,830, published Aug. 8, 1950.
Filler-primer, sealer, or suction stopper. Kreuter-Faasen Company. 278,218, renewed Dec. 9, 1950. O. G. Dec. 5.
Mediums used in setting colors to produce a textile paint. The O-P Craft Co., Inc. 274,598, renewed Sept. 2, 1950. O. G. Dec. 5.
Siding, Decorative, and roof coatings in the nature of paint. Forman, Ford and Co. 534,480, Dec. 5; Serial No. 550,223.
Varnish and paint enamel products. Kreuter-Faasen Co. 212,201, Apr. 27, 1926. Republished Dec. 5.

CLASS 18

Anaesthetic, Local. C. E. Elgin. 534,298–9, Dec. 5; Serial Nos. 579,182–3, published Aug. 22, 1950.
Analgesic and antiseptic. Schieffelin & Co. 80,553, renewed Jan. 3, 1951. O. G. Dec. 5.
Analgesic balm. C. R. Larson. 534,406, Dec. 5; Serial No. 586,944, published Aug. 29, 1950.
Analgesic preparations. E. R. Squibb & Sons. 534,371, Dec. 5; Serial No. 584,554, published Aug. 22, 1950.
Anesthetic, Local. Aktiebolaget Astra, Apotekarnes Kemiska Fabriker. 534,232, Dec. 5; Serial No. 562,437, published May 16, 1950.
Anesthetic material, Local. Atlantic Manufacturing Corporation. 534,353, Dec. 5; Serial No. 583,729, published Sept. 5, 1950.
Anti-acid, emollient, lubricating, and mildly laxative pharmaceutical preparation. The "Nofast" Mfg. & Distb. Company. 534,414, Dec. 5; Serial No. 586,762, published Aug. 29, 1950.
Antibacterial preparation. Sharp & Dohme, Incorporated. 534,347, Dec. 5; Serial No. 583,125, published Aug. 8, 1950.
Antibiotic preparations. Merck & Co., Inc. 534,315, Dec. 5; Serial No. 581,603, published Sept. 5, 1950.
Antihistamine preparation. Bristol-Myers Company. 534,422, Dec. 5; Serial No. 587,378, published Aug. 29, 1950.
Antiseptic preparation, Medicinal. Peau d'Or Sales Corporation. 534,375, Dec. 5; Serial No. 584,773, published Sept. 5, 1950.
Aspirin and niacin compound. Oxford Laboratories, Incorporated. 534,372, Dec. 5; Serial No. 584,591, published Aug. 15, 1950.
Composition of a medicinal nature, Liquid. Berle Products. 534,293, Dec. 5; Serial No. 578,189, published Sept. 5, 1950.
Ear drops. C. Arnold. 444,351, Dec. 5; Serial No. 524,851, published Aug. 22, 1950.
Emollient, lotion. R. E. D'Ononfrio. 534,394, Dec. 5; Serial No. 585,369, published Sept. 5, 1950.
Estrogenic hormone preparation. Sharp & Dohme, Incorporated. 534,367, Dec. 5; Serial No. 584,471, published Sept. 5, 1950.
Estrogenic hormone preparation. Wyeth Incorporated. 534,403, Dec. 5; Serial No. 585,693, published Sept. 5, 1950.
Inhalant. E. J. Isler. 534,489, Dec. 5; Serial No. 566,825.
Laxative herb-tea. J. J. Gapinski. 534,227, Dec. 5; Serial No. 559,918, published Sept. 5, 1950.
Leg paint. W. F. Lutz. 534,306, Dec. 5; Serial No. 580,604, published Aug. 22, 1950.
Liquor to be drunk with simple or carbonated water and generally used as an aperient. D. Campari. 262,694, renewed Oct. 22, 1949. O. G. Dec. 5.
Lozenges, Ascorbic acid. F. L. Iungerich. 534,342, Dec. 5; Serial No. 582,917, published Aug. 8, 1950.
Lozenges for the treatment of coughs, colds, and sore throats. National Licorice Company. 534,419, Dec. 5; Serial No. 587,120, published Aug. 29, 1950.
Male sex hormone preparation. Winthrop-Stearns Inc. 534,399, Dec. 5; Serial No. 585,469, published Aug. 29, 1950.
Medicinal compound. S. A. Chaput. 534,238, Dec. 5; Serial No. 564,080, published Aug. 15, 1950.
Medicinal lotion, External. L. G. K. Carr. 534,311, Dec. 5; Serial No. 581,248, published Aug. 22, 1950.
Medicinal preparation. Dahl Pharmacal Company. 534,308, Dec. 5; Serial No. 580,773, published Aug. 22, 1950.
Medicinal preparation. Eli Lilly and Company. 534,326, Dec. 5; Serial No. 582,088, published Aug. 29, 1950.
Medicinal tablets. L. J. Shapiro. 444,344, Dec. 5; Serial No. 488,055, published Aug. 15, 1950.
Medicine for the treatment of anemia. Smith, Kline & French Laboratories. 534,383, Dec. 5; Serial No. 584,990, published Sept. 5, 1950.
Penicillin troches. Wyeth Incorporated. 534,409, Dec. 5; Serial No. 586,122, published Sept. 19, 1950.
Petrolatum. U. S. P. L. Sonneborn Sons, Inc. 534,271, Dec. 5; Serial No. 574,063, published Aug. 15, 1950.
Pharmaceutical preparation. Chicago Pharmacal Company. 398,137, Oct. 13, 1942. Republished Dec. 5.
Pharmaceutical preparation, Injectible. Laboratorio Torres S. A. 534,280, Dec. 5; Serial No. 576,541, published Sept. 5, 1950.
Pharmaceutical preparations. Imperial Chemical (Pharmaceuticals) Limited. 534,385, Dec. 5; Serial No. 585,025, published Aug. 15, 1950.
Preparation for the relief of common colds, etc. J. C. Gallagher. 534,355, Dec. 5; Serial No. 583,835, published Aug. 22, 1950.
Preparation for the treatment of asthma, hay fever, etc. O. P. Smith. 534,348, Dec. 5; Serial No. 583,496, published Aug. 8, 1950.
Preparation for the treatment of obesity. Smith, Kline & French Laboratories. 534,379, Dec. 5; Serial No. 584,877, published Sept. 5, 1950.
Preparation having an action on the circulation of the blood. Ciba Pharmaceutical Products, Inc. 534,295, Dec. 5; Serial No. 578,767, published Aug. 22, 1950.
Preparation of iron. Aktiebolaget Astra, Apotekarnes Kemiska Fabriker. 534,376, Dec. 5; Serial No. 584,787, published Aug. 8, 1950.
Preparations for human use for the treatment of bacterial infections of the skin, etc. Geigy Company, Inc. 444,350, Dec. 5; Serial No. 524,394, published Aug. 8, 1950.
Solution of potassio-argentic iodide. The Ulen Chemical Company. 534,366, Dec. 5; Serial No. 584,365, published Sept. 5, 1950.
Suppositories, Hemorrhoidal. Whitehall Pharmacal Company. 534,272, Dec. 5; Serial No. 574,071, published Sept. 5, 1950.
Sympathicolytic preparation. Parke, Davis & Company. 534,322, Dec. 5; Serial No. 581,777, published Sept. 5, 1950.

CLASS 20

Covering, Flexible floor. The B. F. Goodrich Company. 534,213, Dec. 5; Serial No. 552,856, published Aug. 29, 1950.
Covering materials, Flexible hard surface, wall, floor and table top. Paulsboro Manufacturing Company. 534,333–4, Dec. 5; Serial Nos. 582,444–5, published Aug. 29, 1950.
Coverings, Linoleum and felt base type flexible. Congoleum-Nairn, Inc. 534,349, Dec. 5; Serial No. 583,522, published Aug. 29, 1950.
Linoleum and resilient plastic composition floor tile. W. & J. Sloane. 534,325, Dec. 5; Serial No. 582,066, published Aug. 29, 1950.

CLASS 21

Electrical appliances. Presto Electric Co. 420,205, Apr. 2, 1946. Amended. O. G. Dec. 5.
Hand manipulated surface treating and finishing machines and tools, Electric. The American Floor Surfacing Machine Company. 534,397, Dec. 5; Serial No. 585,414, published Aug. 22, 1950.
Lamps, Electric stand, electric portrait lights, indirect electric lamps, etc. Niepold's. 534,277, Dec. 5; Serial No. 575,777, published Aug. 22, 1950.
Separator plates. Dewey & Almy Chemical Company. 271,165, May 27, 1930. Amended. O. G. Dec. 5.
Separators, Magnetic. The Jeffrey Manufacturing Company. 534,420, Dec. 5; Serial No. 587,141, published Aug. 22, 1950.
Switches, Electric meter-testing, etc. The Superior Switchboard & Devices Company. 534,416, Dec. 5; Serial No. 586,943, published Aug. 29, 1950.
Wire, Insulated. Cornish Wire Company. 534,250, Dec. 5; Serial No. 568,090, published Aug. 22, 1950.

CLASS 22

Fish hooks. S. Allcock & Company Limited. 534,208, Dec. 5; Serial No. 550,203, published Sept. 6, 1949.
Hockey-sticks and fishing-tackle. H. A. Whittemore. 81,043, re-renewed Feb. 21, 1951. O. G. Dec. 5.
Toys. A. A. Anthony. 534,266, Dec. 5; Serial No. 573,350, published Aug. 15, 1950.

CLASS 23

Accumulators and hydraulic power presses. Birdsboro Steel Foundry and Machine Company. 534,203, Dec. 5; Serial No. 547,609, published Sept. 5, 1950.
Bits, Auger, axes, backsaws, etc. Sears, Roebuck and Co. 534,259, Dec. 5; Serial No. 571,096, published Aug. 22, 1950.
Castings, Machined metal. The Dalton Foundries, Inc. 534,193, Dec. 5; Serial No. 544,155, published Aug. 29, 1950.
Cleaning machines, Dish, silver, and glass, and metal-parts cleaning machines. Colts Patent Fire Arms Manufacturing Co. 274,550, renewed Sept. 2, 1950. O. G. Dec. 5.
Embossing and printing machines and parts thereof. Farrington Manufacturing Company. 280,020, renewed Feb. 10, 1951. O. G. Dec. 5.
Engines, Marine and stationary Diesel, logging machinery, mining machinery, etc. Washington Iron Works. 534,177, Dec. 5; Serial No. 530,274, published Aug. 22, 1950.
Grinding balls and linings, Abrasion and corrosion resisting metallic alloy. The H. W. North Company. 534,214, Dec. 5; Serial No. 552,870, published Sept. 5, 1950.
Grinding balls and linings, Ceramic and porcelain. The H. W. North Company. 534,215, Dec. 5; Serial No. 552,871, published Sept. 5, 1950.
Ladles. Superior Metal Products Company. 534,412, Dec. 5; Serial No. 586,662, published Aug. 22, 1950.

Machines for making metal stays. National Metal Edge Box Company. 534,224, Dec. 5; Serial No. 558,579, published Sept. 5, 1950.
Mixers, Concrete, concrete distributing machines, etc. Koehring Company. 534,178, Dec. 5; Serial No. 532,298, published Aug. 29, 1950.
Motors, Outboard. Gamble-Skogmo, Inc. 534,313, Dec. 5; Serial No. 581,415, published Aug. 29, 1950.
Pumps, Automobile fuel. Grant Storage Battery Company. 534,460, Dec. 5; Serial No. 592,144, published Aug. 29, 1950.
Razors and razor blades. Durham-Enders Razor Corporation. 534,234, Dec. 5; Serial No. 563,113, published Aug. 22, 1950.
Registers, Autographic. The Egry Register Company. 534,185, Dec. 5; Serial No. 538,111, published Aug. 15, 1950.
Roller gravity and wheel gravity conveyors. Harry J. Ferguson Co. 534,169, Dec. 5; Serial No. 510,671, published Sept. 12, 1950.
Saws, Hand, crosscut saws and saw handles. Belknap Hardware and Manufacturing Company. 534,462, Dec. 5; Serial No. 595,354, published Aug. 29, 1950.
Separators, Sand, sand blenders, scrap removers, etc. Royer Foundry & Machine Company. 534,181, Dec. 5; Serial No. 534,823, published Aug. 15, 1950.
Shakers, Shale. Hutchison Manufacturing Company. 534,253, Dec. 5; Serial No. 568,621, published Sept. 12, 1950.
Signalling apparatus, Acoustic. Kockums Mekaniska Verkstads Aktiebolag. 534,204, Dec. 5; Serial No. 548,169, published Aug. 29, 1950.
Tapping machines and parts thereof, drilling machines and parts thereof, etc. Mueller Co. 534,196, Dec. 5; Serial No. 545,154, published Sept. 5, 1950.
Tools, Cutting, hydraulic actuating units, etc. Odin Corporation. 444,345, Dec. 5; Serial No. 496,261, published Aug. 29, 1950.
Valves, Free discharge, gate valves, by-pass valves, etc. The Pelton Water Wheel Company. 534,180, Dec. 5; Serial No. 534,552, published Sept. 12, 1950.
Valves, Metallic. Durabla Manufacturing Company. 534,220, Dec. 5; Serial No. 557,027, published Aug. 15, 1950.
Valves, Pump, pistons, liners, etc. Alfred E. Evans Company. 534,303, Dec. 5; Serial No. 579,743, published Sept. 12, 1950.
Well-drilling, servicing and production equipment and parts thereof. International Derrick & Equipment Company. 534,186, Dec. 5; Serial No. 539,419, published Sept. 12, 1950.

CLASS 26

Photographic and cinematographic sensitized film and plates. Cinefot International Corp. 534,490, Dec. 5; Serial No. 567,623.

CLASS 27

Watches. Bulova Watch Company, Inc. 534,496, Dec. 5; Serial No. 574,407.
Watches, Lapel. D. Taylor. 534,481, Dec. 5; Serial No. 551,496.

CLASS 28

Flatware, Silverplated. National Silver Company. 534,492, Dec. 5; Serial No. 568,519.
Insignia, insignia pins and service medals, etc. D. Taylor. 534,482, Dec. 5; Serial No. 551,497.
Jewelry. Illinois Watch Case Co. 534,237, Dec. 5; Serial No. 564,078, published May 16, 1950.
Knives, forks, spoons, food pushers, etc. Rogers, Lunt & Bowlen Company. 534,316, Dec. 5; Serial No. 581,614, published Sept. 5, 1950.
Knives, forks, spoons, food pushers, etc. Rogers, Lunt & Bowlen Company. 534,317–20, Dec. 5; Serial Nos. 581,616–20, published Sept. 5, 1950.
Knives, forks, spoons, food pushers, etc. Rogers, Lunt & Bowlen Company. 534,324, Dec. 5; Serial No. 581,988, published Sept. 5, 1950.
Tableware, Sterling silver. Frank Smith Silver Company. 534,484, Dec. 5; Serial No. 556,927.

CLASS 29

Powder puffs. I. Alter. 276,896, renewed Oct. 28, 1950. O. G. Dec. 5.

CLASS 32

Ottomans and mountings therefor. B. Nordby. 534,210, Dec. 5; Serial No. 550,823, published Aug. 22, 1950.

CLASS 34

Fans, Centrifugal, and propeller fans. Aktiebolaget Svenska Fläktfabriken. 263,100, renewed Oct. 29, 1949. O. G. Dec. 5.
Furnaces, boilers, water heaters and burners and component parts thereof, etc. The Timken-Detroit Axle Company. 534,477, Dec. 5; Serial No. 546,804.
Heaters, Gas space. Day & Night Water Heater Co., Ltd. 377,309, Apr. 30, 1940. Republished Dec. 5.

CLASS 35

Tubing, Flexible metallic. Pennsylvania Flexible Metallic Tubing Company. 80,870, re-renewed Feb. 7, 1951. O. G. Dec. 5.

CLASS 36

Harmonicas. Wm. Kratt Co. 544,473, Dec. 5; Serial No. 534,793.

CLASS 37

Check books, account books and ledgers. J. Berg. 283,363, May 26, 1931. Republished Dec. 5.
Forms interleaved with carbon sheets. The Workman Manufacturing Company. 534,219, Dec. 5; Serial No. 556,302, published Aug. 22, 1950.
Openers, Letter, and paper weights. S. & G. Gump Company. 534,386, Dec. 5; Serial No. 585,080, published Aug. 15, 1950.
Paper, Blotting. Albemarle Paper Mfg. Company. 534,182, Dec. 5; Serial No. 535,444, published May 2, 1950.
Paper, Kraft, bond paper, manila paper, etc. Mid-States Gummed Paper Co. 534,189, Dec. 5; Serial No. 543,012, published May 2, 1950.
Paper, Loose leaf book. National Blank Book Company. 534,195, Dec. 5; Serial No. 544,897, published May 23, 1950.
Paper, Toilet. Katz Drug Company. 534,262, Dec. 5; Serial No. 572,749, published Aug. 8, 1950.
Paper, Writing. Empire Paper Company. 534,221, Dec. 5; Serial No. 557,029, published Aug. 15, 1950.
Papers, Writing, tablets, notebooks, etc. Prudential Paper Products Co., Inc. 534,300, Dec. 5; Serial No. 579,211, published Aug. 15, 1950.

CLASS 38

Books and series of books. M. C. Salmon. 534,507, Dec. 5; Serial No. 581,904.
Bulletins, notices, and other publications. Public Service Interstate Transportation Company. 534,350, Dec. 5; Serial No. 583,548, published Aug. 15, 1950.
Calendars, Wall. Shaw-Barton, Inc. 534,278, Dec. 5; Serial No. 576,231, published Aug. 15, 1950.
Cards, Greeting. American Greeting Publishers, Inc. 534,415, Dec. 5; Serial No. 586,903, published Sept. 5, 1950.
Cards, Greeting. Norcross, Inc. 534,282, Dec. 5; Serial No. 576,768, published Aug. 29, 1950.
Catalogs, Loose-leaf, sections thereof and additions thereto. Porte Publishing Company. 534,275, Dec. 5; Serial No. 575,157, published Aug. 22, 1950.
Comic strip. Publishers Syndicate. 534,291, Dec. 5; Serial No. 577,732, published Sept. 5, 1950.
House organ. Corning Glass Works. 534,241, Dec. 5; Serial No. 564,712, published Sept. 5, 1950.
House publication. Abbott Laboratories. 444,346, Dec. 5; Serial No. 503,033.
Leaflets, Medical. Ames Company, Inc. 534,339, Dec. 5; Serial No. 582,763, published Aug. 15, 1950.
Magazine. Precision Scientific Company. 534,361, Dec. 5; Serial No. 584,076, published Aug. 15, 1950.
Magazine. Vance Publishing Corporation. 534,491, Dec. 5; Serial No. 568,154.
Magazine supplement for newspapers, Nationally distributed weekly. United Newspapers Magazine Corporation. 534,217, Dec. 5; Serial No. 555,575, published Aug. 22, 1950.
Magazines, magazine supplements and sections and statistical tables. Dun & Bradstreet, Inc. 534,407, Dec. 5; Serial No. 586,082, published Sept. 5, 1950.
Newspaper columns. Louis G. Cowan, Incorporated. 534,243, Dec. 5; Serial No. 565,481, published Aug. 15, 1950.
Newspaper section. Fairchild Publications, Inc. 534,281, Dec. 5; Serial No. 576,636, published Aug. 15, 1950.
Orchestral arrangements and other musical arrangements. G. Johnson. 534,265, Dec. 5; Serial No. 573,325, published Sept. 5, 1950.
Periodical. Business Publishers International Corporation. 276,083, renewed Oct. 7, 1950. O. G. Dec. 5.
Periodical. Cleworth Publishing Co., Inc. 534,513, Dec. 5; Serial No. 587,249.
Periodical. First Industrial Corporation. 534,222, Dec. 5; Serial No. 558,123, published Aug. 29, 1950.
Periodical. Management Magazines, Inc. 271,831, renewed June 17, 1950. O. G. Dec. 5.
Periodical. Patrolmen's Benevolent Association of the City of New York, N. Y. 534,343, Dec. 5; Serial No. 582,922, published Aug. 15, 1950.
Periodical. Thomas Publishing Company. 534,209, Dec. 5; Serial No. 550,461, published Feb. 15, 1949.
Periodical, Weekly. Washington Publications, Inc. 534,390, Dec. 5; Serial No. 585,199, published Aug. 15, 1950.
Periodicals. F. W. Dodge Corporation. 534,235, Dec. 5; Serial No. 563,666, published Aug. 29, 1950.
Pictures, Framed luminescent. N. E. Parrish. 534,423, Dec. 5; Serial No. 587,499, published Sept. 5, 1950.
Publication, Annual. Steel Publications, Inc. 534,382, Dec. 5; Serial No. 584,930, published Aug. 15, 1950.
Publication devoted to market news and other interests. Carson Pirie Scott & Co. 267,695, Feb. 25, 1930. Republished Dec. 5.

Publication, Periodical. The S. H. Smith Co. 534,425, Dec. 5; Serial No. 587,567, published Sept. 5, 1950.
Publications. E. H. Alkire. 534,268, Dec. 5; Serial No. 573,397, published Aug. 15, 1950.
Publications. The Micro Library Incorporated. 543,191, Dec. 5; Serial No. 543,825, published Jan. 24, 1950.
Publications, Pattern. The Clark Thread Company. 534,421, Dec. 5; Serial No. 587,248, published Sept. 5, 1950.
Series of articles. C. A. Petersen. 534,352, Dec. 5; Serial No. 583,708, published Sept. 5, 1950.
Television production layout. Video Associates Inc. 444,352, Dec. 5; Serial No. 526,311, published Aug. 15, 1950.

CLASS 39

Apparel, Women's. Seamprufe, Incorporated. 534,288, Dec. 5; Serial No. 577,144, published Sept. 5, 1950.
Blouses, skirts, and combination garments, Ladies' and misses'. J. A. Ayoub. 534,518, Dec. 5; Serial No. 595,586.
Bodies, Straw hat. Henry Pollak, Inc. 534,274, Dec. 5; Serial No. 574,729, published Aug. 29, 1950.
Boots and shoes. Health Spot Shoe Company. 534,444, Dec. 5; Serial No. 589,852, published July 25, 1950.
Boots, galoshes, dress rubbers, etc., Men's, women's, and children's. The Associated Merchandising Corporation. 534,384, Dec. 5; Serial No. 585,007, published Aug. 22 1950.
Boots, shoes, slippers. J. M. Connell Shoe Co. 277,080, renewed Nov. 4, 1950. O. G. Dec. 5.
Brassières. Artistic Foundations, Inc. 534,445, Dec. 5; Serial No. 590,007, published Sept. 5, 1950.
Brassières. Francine of France, Inc. 534,437, Dec. 5; Serial No. 589,253, published Sept. 5, 1950.
Brassières and combinations of corsets and brassières. The Warner Brothers Company. 534,471, Dec. 5; Serial No. 522,126.
Capes, Rain, rain coats, hoods, and scarfs. McCoy, Jones & Company, Inc. 534,493, Dec. 5; Serial No. 570,215.
Clothing, Industrial safety. Industrial Gloves Company. 534,373, Dec. 5; Serial No. 584,671, published Aug. 22, 1950.
Clothing, Men's and women's. Gilbert of California. 534,493, Dec. 5; Serial No. 572,401.
Coats, Ladies', misses', and small women's. Barkin, Levin & Co., Inc. 534,500, Dec. 5; Serial No. 577,935.
Coats, leather coats, leather vests, etc., Men's and boys' sheeplined. F. Brody & Sons Co. 444,349, Dec. 5; Serial No. 523,943, published May 18, 1948.
Coats, overcoats, full dress coats, Men's, women's, and children's, etc. Jones, Morgan & Co., Inc. 534,270, Dec. 5; Serial No. 573,881, published Aug. 29, 1950.
Coats, Rainproof, and rainproof jackets. C. R. Goldblatt. 534,474, Dec. 5; Serial No. 538,398.
Coats, suits, dresses, Ladies' and misses', etc. Louis Levine & Sons. 276,503, Oct. 21, 1930. Republished Dec. 5.
Coats, vests, trousers, etc. J. Schoeneman, Inc. 534,199, Dec. 5; Serial No. 546,517, published Aug. 22, 1950.
Collars attached to men's outer shirts. Stetson Shirt Co. Inc. 534,218, Dec. 5; Serial No. 555,968, published Aug. 29, 1950.
Corsets, girdles, and foundations garments. Corsetry, Inc. 534,517, Dec. 5; Serial No. 591,913.
Dresses and coats, Ladies'. Louis Levine & Sons. 267,535, Feb. 25, 1930. Republished Dec. 5.
Dresses and frocks, Children's and misses'. Jacobs, Grossman & Rosenberg, Inc. 534,439, Dec. 5; Serial No. 589,448, published Sept. 5, 1950.
Dresses, blouses, jackets, etc., Ladies' and misses'. Elizabeth Arden Sales Corporation. 534,323, Dec. 5; Serial No. 581,850, published Sept. 5, 1950.
Dresses, Children's. B. Altman & Co. 534,263, Dec. 5; Serial No. 573,110, published Aug. 23, 1949.
Dresses for women and children. Bryan Full Fashioned Mills. 534,508, Dec. 5; Serial No. 583,141.
Dresses, Ladies'. L. R. Hoffman. 279,128, renewed Jan. 6, 1951. O. G. Dec. 5.
Dresses, Misses' and women's. Junior Formals, Inc. 534,431, Dec. 5; Serial No. 588,097, published Sept. 5, 1950.
Foundation garments, corsets, girdles, etc. Youthcraft Creations, Inc. 534,413, Dec. 5; Serial No. 586,715, published Sept. 5, 1950.
Foundation garments, Women's and misses'. The Formfit Company. 534,179, Dec. 5; Serial No. 533,227, published Nov. 29, 1949.
Garments, Knitted baby. Bernhard Ulmann Co. Inc. 534,488, Dec. 5; Serial No. 565,893.
Gloves. Fairfield Glove Co. 534,428, Dec. 5; Serial No. 587,863, published Sept. 5, 1950.
Gloves. Fairfield Glove Co. 534,429, Dec. 5; Serial No. 587,866, published Sept. 5, 1950.
Gloves. Marshall Field & Company. 291,811, Feb. 23, 1932. Republished Dec. 5.
Hats, Men's. The Frank H. Lee Company. 534,509, Dec. 5; Serial No. 583,540.
Hats, Straw, for men. Hat Corporation of America. 534,374, Dec. 5; Serial No. 584,766, published Aug. 29, 1950.
Hosiery. Berkshire Knitting Mills. 534,470, Dec. 5; Serial No. 520,547.
Hosiery. M. A. Hodes. 534,398, Dec. 5; Serial No. 585,446, published Sept. 5, 1950.
Hosiery, Holeproof Hosiery Co. 534,497, Dec. 5; Serial No. 575,582.
Hosiery. Chester H. Roth Co., Inc. 534,297, Dec. 5; Serial No. 578,900, published Sept. 5, 1950.
Hosiery; gloves, Men's, women's, and children's, etc. Lambert Manufacturing Company. 534,515, Dec. 5; Serial No. 587,734.
Hosiery, Ladies'. Hanes Hosiery Mills Company. 534,396, Dec. 5; Serial No. 585,378, published Sept. 5, 1950.
Hosiery, Men's, women's, and children's. Best Made Silk Hosiery Company. 264,761, renewed Dec. 3, 1949. O. G. Dec. 5.
Jackets, Men's college, men's T shirts. Sigma Nu Fraternity. 534,174, Dec. 5; Serial No. 523,426, published Aug. 22, 1950.
Jackets, Men's college, men's T shirts. Sigma Nu Fraternity. 534,175, Dec. 5; Serial No. 526,303, published Aug. 15, 1950.
Jackets, Men's college, men's T shirts. Sigma Nu Fraternity. 534,176, Dec. 5; Serial No. 526,304, published Aug. 22, 1950.
Kerchiefs and handkerchiefs. Kiskerchief, Inc. 534,392, Dec. 5; Serial No. 585,287, published Aug. 29, 1950.
Mitten, Knitted. E. E. Gannon. 534,418, Dec. 5; Serial No. 587,019, published Sept. 5, 1950.
Neckties, hats, caps, shoes, etc., Men's. The Erie Clothing Company, Inc. 534,192, Dec. 5; Serial No. 543,910, published Aug. 29, 1950.
Neckwear, Men's. H. Rosenberg. 534,511, Dec. 5; Serial No. 584,641.
Outer clothing, Men's, young men's, and youths'. Sears, Roebuck and Co. 534,485, Dec. 5; Serial No. 559,349.
Outergarmets. Linnex Corp. 534,405, Dec. 5; Serial No. 585,890, published Aug. 29, 1950.
Overalls and playsuits, Children's. Moore Grocery Co. 534,401, Dec. 5; Serial No. 585,658, published Aug. 29, 1950.
Overalls, jumpers, work jackets, etc., Men's, women's, boys' and girls'. Blue Bell, Inc. 534,184, Dec. 5; Serial No. 536,993, published Jan. 31, 1950.
Overshoes. The B. F. Goodrich Company. 534,187, Dec. 5; Serial No. 540,188, published July 25, 1950.
Panties, Little girls'. P. Bernstein. 534,435, Dec. 5; Serial No. 589,003, published Sept. 5, 1950.
Play shorts, Ladies' and men's. B. Morrison. 534,336, Dec. 5; Serial No. 582,641, published Aug. 15, 1950.
Scarfs. Allway Scarf Corp. 534,321, Dec. 5; Serial No. 581,697, published Aug. 15, 1950.
Shirts and blouses, etc., Boys' and youths' dress, negligee and work. M. Silfen. 534,230, Dec. 5; Serial No. 561,410, published Aug. 8, 1950.
Shirts, jackets, trousers, etc., Men's work. Moore Grocery Co. 534,402, Dec. 5; Serial No. 585,659, published Aug. 29, 1950.
Shirts, Men's dress and negligee. National Shirt Shops of Delaware, Inc. 534,369, Dec. 5; Serial No. 584,541, published Aug. 15, 1950.
Shirts, Men's negligee. B. Altman & Co. 534,506, Dec. 5; Serial No. 580,968.
Shirts, Sport, basque shirts, polo shirts, etc. Norrad Sportswear. 534,279, Dec. 5; Serial No. 576,350, published Aug. 15, 1950.
Shirts, underwear, and pajamas, Men's dress and negligee. National Shirt Shops of Delaware, Inc. 534,370, Dec. 5; Serial No. 584,542, published Aug. 15, 1950.
Shoes. The Walker T. Dickerson Co. 274,781, renewed Sept. 9, 1950. O. G. Dec. 5.
Shoes. Forbes & Wallace, Inc. 277,677, renewed Nov. 25, 1950 O. G. Dec. 5.
Shoes. The H. C. Godman Company. 534,249, Dec. 5; Serial No. 567,776, published Aug. 22, 1950.
Shoes, Girls' and young women's. R. H. Macy & Co., Inc. 277,665, renewed Nov. 25, 1950. O. G. Dec. 5.
Shoes, Girls' and young women's. R. H. Macy & Co., Inc. 278,229, renewed Dec. 9, 1950. O. G. Dec. 5.
Shoes, Ladies'. E. P. Reed & Co. 534,486, Dec. 5; Serial No. 563,367.
Shoes, Leather logger. Bone Dry Shoe Mfg. Co. 279,562, renewed Jan. 20, 1951. O. G. Dec. 5.
Shoes, Men's. The Associated Merchandising Corporation. 534,512, Dec. 5; Serial No. 585,008.
Skirts, dresses, coats and suits, Women's. Joseph Goldberg & Sons, Inc., 534,502, Dec. 5; Serial No. 578,330.
Slacks, Men's. Beichman & Vogel. 534,387, Dec. 5; Serial No. 585,100, published Aug. 29, 1950.
Slips, Princess, nightgowns, ladies' uniforms, etc. I. Schneierson & Sons, Inc. 534,478, Dec. 5; Serial No. 548,414.
Sportswear. Jaco Knitwear Inc. 534,378, Dec. 5; Serial No. 584,864, published Aug. 29, 1950.
Sportswear and clothing, Ladies', misses' and junior misses'. Parkland Sportswear Co., Inc. 534,362, Dec. 5; Serial No. 584,150, published Sept. 5, 1950.
Sportswear, Ladies' and misses', and men's polo shirts. Livingston & Livingston. 534,307, Dec. 5; Serial No. 580,667, published Aug. 15, 1950.
Suits and topcoats, Men's. Hyde Park Clothes, Inc. 534,503, Dec. 5; Serial No. 578,796.
Suits, topcoats, overcoats, etc., Men's. Mannie Walker & Sons Clothing Corp. 534,254, Dec. 5; Serial No. 568,698, published Aug. 22, 1950.
Trousers for men and boys. Stag Clothes, Inc. 534,225, Dec. 5; Serial No. 558,760, published Aug. 22, 1950.

Underwear and outerwear. York Knitting Mills, Limited. 534,194, Dec. 5; Serial No. 544,809, published Aug. 22, 1950.
Underwear, Men's and boys' knitted. Standard Knitting Mills, Inc. 534,483, Dec. 5; Serial No. 554,625.
Wear, Children's and infants'. Sonia Infants Wear Co., Inc. 534,463, Dec. 5; Serial No. 597,032, published Sept. 5, 1950.
Wearing apparel. Foster-Hochberg Co. 534,433, Dec. 5; Serial No. 588,757, published Sept. 5, 1950.
Wearing apparel. Phillips Petroleum Company. 534,276, Dec. 5; Serial No. 575,429, published Aug. 15, 1950.
Wearing apparel, Men's and boys'. David D. Doniger & Co., Inc. 534,381, Dec. 5; Serial No. 584,897, published Aug. 22, 1950.

CLASS 40

Bands, Stretchable fabric. B. L. Harmon. 534,332, Dec. 5; Serial No. 582,352, published Aug. 29, 1950.
Bob pins. Solo Products Corporation. 534,206, Dec. 5; Serial No. 549,477, published Aug. 15, 1950.
Braids. E. C. Scherrer Inc. 534,453, Dec. 5; Serial No. 590,763, published Sept. 5, 1950.
Braids, Millinery. Embrusa, Inc. 534,245, Dec. 5; Serial No. 565,914, published Aug. 29, 1950.
Braids, Synthetic, used in the manufacture of hat bodies. E. C. Scherrer Inc. 534,258, Dec. 5; Serial No. 570,988, published Sept. 12, 1950.
Buckles, Belt. Pyro Plastics Corporation. 534,337, Dec. 5; Serial No. 582,647, published Sept. 5, 1950.
Button, Cushion seal. W. H. Hadley. 534,188, Dec. 5; Serial No. 541,670, published Sept. 12, 1950.
Buttons. Rochester Button Company. 534,404, Dec. 5; Serial No. 585,813, published Aug. 29, 1950.
Buttons. Rochester Button Company. 534,411, Dec. 5; Serial No. 586,432, published Sept. 12, 1950.
Buttons. Rochester Button Company. 534,432, Dec. 5; Serial No. 588,597, published Sept. 5, 1950.
Combs, Teeth locking. Tar-Lon of Hollywood. 534,494, Dec. 5; Serial No. 572,281.
Curl clips. The I. Leon Co., Inc. 534,449, Dec. 5; Serial No. 590,274, published Aug. 29, 1950.
Curlers, Plastic hair. Sterling Plastics Co. 534,252, Dec. 5; Serial No. 568,335, published Aug. 29, 1950.
Harness for infants. Life Manufacturing Company, Inc. 534,346, Dec. 5; Serial No. 583,102, published Aug. 15, 1950.
Hat braids. Henry Pollak, Inc. 534,424, Dec. 5; Serial No. 587,505, published Aug. 15, 1950.
Hat braids. Henry Pollak, Inc. 534,436, Dec. 5; Serial No. 589,169, published Aug. 29, 1950.
Hooks, Crochet, and knitting needles. C. J. Bates & Son. 534,446, Dec. 5; Serial No. 590,067, published Aug. 29, 1950.
Knitting sets. Joe Lowe Corporation. 534,304, Dec. 5; Serial No. 580,080, published Sept. 12, 1950.
Tape, Venetian blind. Hunter Douglas Corporation. 534,341, Dec. 5; Serial No. 582,900, published Aug. 15, 1950.
Tape, Venetian blind. Hunter Douglas Corporation. 534,358, Dec. 5; Serial No. 583,919, published Aug. 15, 1950.
Tapes, Ladder, for Venetian blinds. International Braid Corp. 534,410, Dec. 5; Serial No. 586,354, published Sept. 12, 1950.
Wire, Millinery, and artificial flower wire. Fraser Manufacturing Co., Inc. 534,454, Dec. 5; Serial No. 591,026, published Aug. 29, 1950.

CLASS 41

Umbrellas. Hunter Douglas Corporation. 534,335, Dec. 5; Serial No. 582,604, published Aug. 15, 1950.
Umbrellas, Paper emergency. Wonda-Brella Inc. 534,296, Dec. 5; Serial No. 578,843, published Sept. 5, 1950.
Umbrellas, parasols, and parts therefor. Columbia Umbrella Co., Inc. 534,365, Dec. 5; Serial No. 584,318, published Aug. 15, 1950.
Umbrellas, Rain, and umbrella frames. The Finkel Umbrella Frame Company, Inc. 534,363, Dec. 5; Serial No. 584,276, published Aug. 15, 1950.

CLASS 42

Crash goods in the piece, etc. Startex Mills. 534,167, Dec. 5; Serial No. 489,363, published Aug. 29, 1950.
Draperies, upholstery and drapery fabrics in the piece. Joanna Western Mills Company. 534,183, Dec. 5; Serial No. 536,822, published Sept. 14, 1948.
Fabrics, Corduroy. Crompton Company. 534,190, Dec. 5; Serial No. 543,129, published May 10, 1949.
Fabrics, Cotton. J. P. Stevens & Co., Inc. 534,487, Dec. 5; Serial No. 564,411.
Fabrics, Drapery, upholstery, and carpeting. Collins & Aikman Corporation. 438,721, May 11, 1948. Republished Dec. 5.
Fabrics, Flat. Leewood Fabrics, Inc. 399,686, Jan. 26, 1943. Republished Dec. 5.
Fabrics of silk, wool, cotton, etc. William Skinner & Sons. 534,455, Dec. 5; Serial No. 591,111, published Aug. 29, 1950.
Fabrics, Pile, in the piece. Leewood Fabrics, Inc. 333,554, Mar. 24, 1936. Republished Dec. 5.
Fabrics, Pile, in the piece and in cut lengths. Collins & Aikman Corporation. 275,448, Sept. 23, 1930. Republished Dec. 5.
Fabrics, Textile. Celanese Corporation of America. 534,292, Dec. 5; Serial No. 577,864, published Aug. 22, 1950.
Fabrics, Textile, in the piece. Hego Fabrics, Inc. 534,457, Dec. 5; Serial No. 591,165, published Aug. 29, 1950.
Fabrics, Velvet, in the piece. Crompton Company. 534,242, Dec. 5; Serial No. 565,237, published Aug. 29, 1950.
Fabrics, Woolen. S. Stein & Co., Inc. 534,475, Dec. 5; Serial No. 540,933.
Fabrics, Woolen, in the piece. Pacific Mills. 534,505, Dec. 5; Serial No. 580,744.
Fire-resistant brattice cloth. Fulton Bag & Cotton Mills. 534,504, Dec. 5; Serial No. 579,095.
Percale, Plain white, dyed and printed. The Windsor Print Works. 80,334, re-renewed Dec. 6, 1950. O. G. Dec. 5.
Piece goods. Franklin Manufacturing Company. 534,510, Dec. 5; Serial No. 583,648.
Piece goods, Rayon. M. Weiner. 534,499, Dec. 5; Serial No. 575,615.
Piece goods, Rayon. Julius N. Werk Fabrics, Inc. 444,064, July 4, 1950. Republished Dec. 5.
Piece goods, Woolen. Metcalf Brothers & Co. 280,054, renewed Feb. 10, 1951. O. G. Dec. 5.
Taffeta, Waterproof coated rayon. Rainwear Supply, Incorporated. 534,479, Dec. 5; Serial No. 549,338.

CLASS 43

Cotton thread and yarn, Non-mercerized. The Grady-Travers Company, Inc. 544,472, Dec. 5; Serial No. 528,785.
Thread. The Linen Thread Co., Inc. 444,348, Dec. 5; Serial No. 523,689, published Aug. 15, 1950.
Thread and twine. The Heminway & Bartlett Mfg. Co. 534,294, Dec. 5; Serial No. 578,392, published Aug. 15, 1950.
Thread and twine. The Heminway & Bartlett Mfg. Co. 534,328, Dec. 5; Serial No. 582,225, published Aug. 15, 1950.
Thread and yarn. Societe a Responsabilite Limitee J. Thiriez Pere & Fils & Cartier-Bresson. 534,440, Dec. 5; Serial No. 589,477, published Sept. 5, 1950.
Thread of nylon. The Heminway & Bartlett Manufacturing Company. 534,442, Dec. 5; Serial No. 589,653, published Sept. 12, 1950.
Threads, Artificial-silk. Algemeene Kunstzijde Unie N. V. 277,826, renewed Nov. 25, 1950. O. G. Dec. 5.
Yarn, Wool. Spinnerin Yarn Co., Inc. 534,356, Dec. 5; Serial No. 583,893, published Aug. 15, 1950.
Yarn, Woolen. Botany Mills, Inc. 534,286, Dec. 5; Serial No. 577,094, published Aug. 15, 1950.
Yarn, Worsted. Caron Spinning Company. 534,345, Dec. 5; Serial No. 583,077, published Aug. 15, 1950.
Yarns and threads. Henry Campbell & Co. Limited. 534,305, Dec. 5; Serial No. 580,222, published Aug. 29, 1950.

CLASS 44

Disposable ready-to-use unit for use in the parenteral administration of fluids. Abbott Laboratories. 534,360, Dec. 5; Serial No. 584,046, published Aug. 29, 1950.
Dressings, Dental, medical and surgical, and bandages. The Kendall Company. 534,461, Dec. 5; Serial No. 592,815, published Aug. 29, 1950.
Equipment and apparatus used in the handling and administering of medicinal gases, etc. National Cylinder Gas Company. 534,248, Dec. 5; Serial No. 567,003, published Aug. 29, 1950.
Home permanent hair-waving kit. The J. R. Watkins Company. 534,261, Dec. 5; Serial No. 572,225, published Aug. 29, 1950.

CLASS 45

Ginger-ale. O. Altpeter. 74,717, re-renewed Aug. 3, 1949. O. G. Dec. 5.
Ginger ale, cream soda, root beer, etc. The Grand Forks Bottling Works. 171,599, Aug. 7, 1923. Republished Dec. 5.

CLASS 46

Bon-bons, chocolates, and candies. L. Bamberger & Co. 278,511, renewed Dec. 23, 1950. O. G. Dec. 5.
Butter and evaporated milk. Milk Producers Association of Central California. 534,273, Dec. 5; Serial No. 574,633, published July 18, 1950.
Candy. E. H. Gardner. 534,226, Dec. 5; Serial No. 559,599, published July 18, 1950.
Candy, Bulk, and candy bars. The D. L. Clark Company. 316,323, Aug. 21, 1934. Republished Dec. 5.
Canned corn and canned peas. Minnesota Valley Canning Company. 534,516, Dec. 5; Serial No. 590,940.
Canned dog and cat food. Timerson Canning Co., Inc. 436,250, Jan. 27, 1948. Republished Dec. 5.
Canned dog and cat food. Timerson Canning Co., Inc. 438,050, Apr. 6, 1948. Republished Dec. 5.

Canned fruits, canned vegetables, canned fish, etc. Schloss & Kahn Grocery Company. 534,240, Dec. 5; Serial No. 564,656, published July 18, 1950.
Canned lima beans. Taylor & Caldwell, Inc. 280,187, renewed Feb. 10, 1951. O. G. Dec. 5.
Canned pineapple, canned pineapple juice and frozen fresh pineapple. Hawaiian Pineapple Company, Limited. 534,202, Dec. 5; Serial No. 547,451, published July 11, 1950.
Canned sea mussels, canned clam chowder, sardine cocktail spread, etc. North Atlantic Packing Company. 534,231, Dec. 5; Serial No. 568,325, published July 11, 1950.
Canned spanish rice, canned macaroni with creole sauce, canned beef stew, etc. Menner Packing Corp. 534,476, Dec. 5; Serial No. 542,776.
Coffee. Standard Brands Incorporated. 280,643, renewed Feb. 24, 1951. O. G. Dec. 5.
Coffee. Standard Brands Incorporated. 280,648, renewed Feb. 24, 1951. O. G. Dec. 5.
Eggs, Frozen. Standard Brands Incorporated. 280,695, renewed Feb. 24, 1951. O. G. Dec. 5.
Feeds, Livestock and poultry. F. E. Riddle. 534,285, Dec. 5; Serial No. 577,018, published July 18, 1950.
Flour supplement. The Bryo Company. 534,198, Dec. 5; Serial No. 546,356, published July 25, 1950.
Flour, Wheat. The Colorado Milling & Elevator Co. 278,521, renewed Dec. 23, 1950. O. G. Dec. 5.
Flour, Wheat. Colorado Milling & Elevator Company. 534,250, Dec. 5; Serial No. 569,883, published June 27, 1950.
Fruits, Fresh citrus. Chandler Heights Citrus Growers. 534,501 Dec. 5; Serial No. 578,073.
Meat products; sausage; and meat loaf. William Davies Co. 534,201, Dec. 5; Serial No. 546,671, published July 18, 1950.
Olives. Arguimbau & Ramee. 80,969, re-renewed Feb. 21, 1951. O. G. Dec. 5.
Pears, Fresh. Myron Root and Company, Inc. 534,393, Dec. 5; Serial No. 585,343, published July 18, 1950.
Potatoes. L. S. Taube & Co. 534,172, Dec. 5; Serial No. 516,110, published July 18, 1950.
Salad and cooking oil, coffee, tea, etc. Schloss & Kahn Grocery Company. 534,231, Dec. 5; Serial No. 562,408, published July 18, 1950.
Sandwich spread. Perry H. Chipurnoi, Inc. 534,197, Dec. 5; Serial No. 545,443, published May 30, 1950.
Sandwiches. J. C. Dinamore. 279,037, renewed Jan. 6, 1951. O. G. Dec. 5.
Sandwiches. Eskimo Pie Corporation. 534,287, Dec. 5; Serial No. 577,114, published July 18, 1950.
Sauce, Pizza. Conte & Sons Packing Co. 534,269, Dec. 5; Serial No. 573,530, published July 18, 1950.
Vegetables and melons, Fresh. M. O. Best. 534,200, Dec. 5; Serial No. 546,644, published July 11, 1950.
Vegetables, Fresh. John W. Law Co. 534,173, Dec. 5; Serial No. 519,277, published June 27, 1950.

CLASS 48

Beverage, Malt. United States Brewing Co. of Chicago. 291,673, Feb. 23, 1932. Restricted order. O. G. Dec. 5.
Beverages, Malt. United States Brewing Co. of Chicago. 320,606, Jan. 1, 1935. Restricted order. O. G. Dec. 5.

CLASS 50

Drinking straws. Milko Cone & Baking Co., Inc. 534,408, Dec. 5; Serial No. 586,102, published Aug. 15, 1950.
Gassed rubber composition. E. J. Moran. 275,189, renewed Sept. 16, 1950. O. G. Dec. 5.
Highway lane dividing markers. International Highway Marker Co. 534,205, Dec. 5; Serial No. 548,966, published Aug. 15, 1950.
Ornaments, R. Pontarelli. 444,347, Dec. 5; Serial No. 523,615, published Aug. 15, 1950.

CLASS 51

Dentifrice. The Stevens-Wiley Manufacturing Co., Inc. 534,395, Dec. 5; Serial No. 585,400, published Aug. 8, 1950.
Lipstick, nail polish, rouge, and face powder. Elizabeth Arden Sales Corporation. 534,357, Dec. 5; Serial No. 583,905, published Aug. 8, 1950.
Lipstick, nail polish, rouge, etc. Elizabeth Arden Sales Corporation. 534,368, Dec. 5; Serial No. 584,521, published Aug. 15, 1950.
Mouthwash, brilliantine, all purpose lotion, etc. R. H. Macy & Co., Inc. 534,257, Dec. 5; Serial No. 570,108, published Aug. 29, 1950.
Perfumery, toilet water, sachet powders, etc. The Baldwin Perfumery Co. 79,318, re-renewed Aug. 30, 1950. O. G. Dec. 5.
Perfumes and deodorants. Y & Y Deodorizer Co. 534,338, Dec. 5; Serial No. 582,716, published Aug. 1, 1950.
Perfumes and/or scents in a cream base. Cinderella Unusual Cosmetics, Inc. 534,255, Dec. 5; Serial No. 569,744, published Sept. 5, 1950.
Perfumes, toilet water, face powder, etc. Paquin Limited. 534,246, Dec. 5; Serial No. 566,359, published Sept. 6, 1949.
Scalp oil and cream. Hunt Sisters. 534,354, Dec. 5; Serial No. 583,758, published Aug. 8, 1950.
Soaps. P. P. Mulhens. 274,603–04, renewed Sept. 2, 1950. O. G. Dec. 5.

CLASS 52

Chemical preparation. Neilson Chemical Company. 534,168, Dec. 5; Serial No. 504,858, published Feb. 28, 1950.

CLASS 100

Drilling, Oil well, geological surveying, and general oil field petroleum engineering, as contractor for others. Drilling and Exploration Company, Inc. 534,465, Dec. 5; Serial No. 537,667, published Aug. 29, 1950.

CLASS 101

Advertising service. Bridal-Ette Bride Basket. 534,467, Dec. 5; Serial No. 575,695, published Aug. 29, 1950.

CLASS 102

Underwriting of accident, liability and property insurance and reinsurance. Liberty Mutual Insurance Company. 534,519, Dec. 5; Serial No. 577,798.

CLASS 103

Designing metal work for building construction purposes, etc. Fred S. Gichner Iron Works, Inc. 534,466, Dec. 5; Serial No. 538,530, published Sept. 12, 1950.
Reconditioning and repairing Venetian blinds. Reeve-Foster Company, Inc. 534,468, Dec. 5; Serial No. 583,661, published Sept. 5, 1950.

CLASS 105

Airplane transportation and shipping of passengers, property and mail. Braniff Airways, Incorporated. 534,469, Dec. 5; Serial No. 584,943, published Sept. 12, 1950.
Planning and personally conducting tours by airplane. Resort Airlines, Inc. 534,464, Dec. 5; Serial No. 527,587, published Aug. 29, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Carani, Attilio D., Miami, Fla. Window structure. Re. 23,301, Dec. 5.
Greene, Leonard, Scarsdale, N. Y. Stall warning device for airplanes. Re. 23,302, Dec. 5.

LIST OF PLANT PATENTEES

Howard, Fred H., deceased, Montebello, Calif., by M. J. Howard, executrix, assignor to Howard & Smith, Montebello, Calif. Rose plant. 996, Dec. 5.
Howard, Minnie J., executrix: *See*— Howard, Fred H.
Howard & Smith, assignee: *See*— Howard, Fred H.

LIST OF DESIGN PATENTEES

Alkire, Elbern H., Easton, Pa. Stringed musical instrument. 161,075, Dec. 5.
Allen, Oliver L., Riverside, assignor to Electrolux Corporation, Old Greenwich, Conn. Vacuum cleaner nozzle or similar article. 161,076, Dec. 5.
Atwood, Doris A., West Newton, Mass. Front for an ophthalmic mounting. 161,077, Dec. 5.
Atwood, Doris A., West Newton, Mass. Front for an ophthalmic mounting. 161,078, Dec. 5.
Atwood, Doris A., West Newton, Mass. Front for an ophthalmic mounting. 161,079, Dec. 5.
Barnhart, A. Baker, New York, assignor to Modern Carpet Sweeper Co., Inc., Brooklyn, N. Y. Barbecue grill. 161,080, Dec. 5.
Bazelon, Roy, Chicago, Ill. Shuffleboard game table. 161,081, Dec. 5.
Berman, Oscar A., New York, N. Y. Dress. 161,082, Dec. 5.
Bernstein, Sol, assignor to Miller Bros. Hat Co., Inc., New York, N. Y. Hat display stand. 161,083, Dec. 5.
Blacker, Joseph, Brooklyn, N. Y. Combined air suction and thread trimming machine. 161,084, Dec. 5.
Bolser, Clark M., assignor to The Bolser Corporation, Cedar Falls, Iowa. Reflector signal. 161,085, Dec. 5.
Bolser Corporation, The, assignee: *See*— Bolser, Clark M.
Bolté, Brown, and R. Dixon, New Canaan, Conn. Container. 161,086, Dec. 5.
Buhrig, Roland L., Santa Ana, Calif. Vase or similar article. 161,087, Dec. 5.
Cacciarelli, Joseph D., Nutley, N. J. Canasta scoreboard. 161,088, Dec. 5.
Collura, Francesco, New York, N. Y. Canasta card tray. 161,089, Dec. 5.
Converse Rubber Corporation, assignee: *See*— Eldon, James F.
Cooke, Lawrence E., New York, N. Y. Toy bank. 161,090, Dec. 5.
Cramer, Roy A., Kansas City, Mo. Stepladder or the like. 161,091, Dec. 5.
Day's, Mrs., Ideal Baby Shoe Company, Inc., assignee: *See*— McCutcheon, Paris S.
De Vilbiss Company, The, assignee: *See*— Sundberg, Carl W.
Dixon, Robert: *See*— Bolté, Brown, and Dixon.
Dottavio, Romigio, Pittsfield, Mass. Combined flower pot and stand therefor. 161,092, Dec. 5.
Dottavio, Romigio, Pittsfield, Mass. Combined flow pot and stand therefor. 161,093, Dec. 5.
Eastman Kodak Company, assignee: *See*— Knowles, Frederick G.
Eldon, James F., Melrose, assignor to Converse Rubber Corporation, Malden, Mass. Rubber boot. 161,094, Dec. 5.
Electrolux Corporation, assignee: *See*— Allen, Oliver L.
Farnsworth, Herbert, Norwalk, Conn., assignor to I. Zendman, III, New York, N. Y. Lace. 161,095, Dec. 5.
Fisher, Bruce & Company, assignee: *See*— Muench, Toni O.
Fitzgerald, Maurice F., assignor to Son-Chief Electrics, Incorporated, Winsted, Conn. Electric toaster. 161,096, Dec. 5.
Frankel, Gustave, assignor to Holeproof Hosiery Company, Milwaukee, Wis. Slippersock. 161,097, Dec. 5.
Gelardin, Benjamin, Bronx, N. Y. Suction cup rattle. 161,098, Dec. 5.
Genovese, Nicholas, Brooklyn, N. Y. Child's crib. 161,099, Dec. 5.
Goldfield, Edwin R., and R. J. Stava, University Heights, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio. X-ray apparatus. 161,100, Dec. 5.
Gordon, Mollie, assignor to Reuben Gordon Shoe Co., Inc., Philadelphia, Pa. Shoe. 161,101, Dec. 5.
Gordon, Reuben, Shoe Co., Inc., assignee: *See*— Gordon, Mollie.
Grasberger, Francis N., Lynchburg, Va. Shoe heel. 161,102, Dec. 5.
Hansa, Arthur V., West Los Angeles, Calif. Shopping cart. 161,103, Dec. 5.
Harvey, Bennet B., and J. D. Landes, Jr., Chicago, Ill., assignors to Rand McNally & Company. Container for books or similar articles. 161,104, Dec. 5.
Haworth, Joseph G., Los Angeles, Calif. Hand truck for vacuum cleaner and accessories. 161,105, Dec. 5.
Hirsch, Julius A., Chicago, Ill. Jacquard fabric. 161,106, Dec. 5.
Hoelzel, Carl F., assignor to Superior Products, Incorporated, Kansas City, Mo. Receptacle for fire extinguishing grenade. 161,107, Dec. 5.
Holeproof Hosiery Company, assignee: *See*— Frankel, Gustave.
Kandarian, Belle A., Fresno, Calif. Toilet seat. 161,108, Dec. 5.
Keiper, Bert F., East Orange, N. J. Portable grass trimmer. 161,109, Dec. 5.
Knowles, Frederick G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic flashlight apparatus. 161,110, Dec. 5.
Kregger, Henry C., Compton, Calif. Swing. 161,111, Dec. 5.
Landes, Joseph D., Jr.: *See*— Harvey, Bennet B., and Landes, Jr.
Linquist, William A., Minneapolis, Minn. Wheel chair. 161,112, Dec. 5.
McCutcheon, Paris S., Salem, assignor to Mrs. Day's Ideal Baby Shoe Company, Inc., Danvers, Mass. Shoe form or the like. 161,113, Dec. 5.
McNab, Allan, assignor to Allan McNab & Associates Inc., New York, N. Y. Shopping center. 161,114, Dec. 5.
McNab, Allan, & Associates Inc., assignee: *See*— McNab, Allan.
Meier, William A., Rochester, Pa. Hollow stem crystal beer goblet. 161,115, Dec. 5.
Meyers, Louis G., New York, N. Y. Glove holding attachment for handbags or the like. 161,116, Dec. 5.
Miller Bros. Hat Co., Inc., assignee: *See*— Bernstein, Sol.
Modern Carpet Sweeper Co., Inc., assignee: *See*— Barnhart, A. Baker.
Moody, Norton W., Flushing, N. Y. Merchandise display stand. 161,117, Dec. 5.

Motor Wheel Corporation, assignee: *See*—
Wilson, Lawrence H.
Muench, Toni O., East Liverpool, Ohio, assignor to Fisher, Bruce & Company, Philadelphia, Pa. Plate or similar article. 161,118, Dec. 5.
National Plastic Corp., assignee: *See*—
Rubin, Noah.
New Standard Corporation, assignee: *See*—
Zifferer, Lothar R.
Ogden, Claudia M., Scottsdale, Ariz. Textile fabric or the like. 161,119, Dec. 5.
Olson, John L., Los Angeles, Calif. Sandal or similar article. 161,120, Dec. 5.
Ossanna, Fred A., Jr., Austin, Tex. Temperature-controlled vending cabinet. 161,121, Dec. 5.
Packman, Leo, New York, N. Y. Combined illuminable rattle and suction cup. 161,122, Dec. 5.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,123, Dec. 5.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,124, Dec. 5.
Picker X-Ray Corporation, Waite Manufacturing Division, Inc., assignee: *See*—
Goldfield, Edwin R., and Stava.
Polime, Franco, Chappaqua, assignor to Twin Bottles, Inc., Port Chester, N. Y. Combined salt-and-pepper shaker. 161,125, Dec. 5.
Powers, John J., University City, Mo. Motor vehicle. 161,126, Dec. 5.
Rand McNally & Company, assignee: *See*—
Harvey, Bennet B., and Landes.
Robins, Jack L., Los Angeles, Calif., assignor, by mesne assignments, to Transervice, Inc. Newspaper and pamphlet dispenser for streetcars and busses. 161,127, Dec. 5.
Rubin, Noah, assignor to National Plastic Corp., New York, N. Y. Miniature wall shelf. 161,128, Dec. 5.
Saltzman, Morris, New York, N. Y. Child's hooded coat. 161,129, Dec. 5.
Sandler, Jacob, Boston, Mass. Shoe or the like. 161,130, Dec. 5.
Scott, Elizabeth M., Los Angeles, Calif. Spade fork or similar article. 161,131, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,132, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,133, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,134, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper of the like. 161,135, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,136, Dec. 5.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,137, Dec. 5.
Shapiro, Joseph, assignor to Universal Match Corporation, St. Louis, Mo. Match book display stand. 161,138, Dec. 5.
Shapiro, Joseph, assignor to Universal Match Corporation, St. Louis, Mo. Match book display stand. 161,139, Dec. 5.
Shrewsbury, Jean R., New York, N. Y. Pair of sun glasses or similar article. 161,140, Dec. 5.
Sneed, Arnold V., Huntsville, Ala. Movable mirror rack. 161,141, Dec. 5.
Son-Chief Electrics, Incorporated, assignee: *See*—
Fitzgerald, Maurice F.
Stava, Robert J.: *See*—
Goldfield, Edwin R., and Stava.
Sundberg, Carl W., Birmingham, Mich., assignor to The De Vilbiss Company, Toledo, Ohio. Vaporizer. 161,142, Dec. 5.
Superior Products, Incorporated, assignee: *See*—
Hoelzel, Carl E.
Transervice, Inc., assignee: *See*—
Robins, Jack L.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Twin Bottles, Inc., assignee: *See*—
Polime, Franco.
Universal Match Corporation, assignee: *See*—
Shapiro, Joseph.
Walters, Ben, Bronx, N. Y. Clip for a drapery pleater. 161,143, Dec. 5.
Westmore, Ernest H., North Hollywood, Calif. Eyebrow stencil. 161,144, Dec. 5.
Wilson, Lawrence H., Detroit, assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for a heater or the like. 161,145, Dec. 5.
Wilson, Lawrence H., Detroit, assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for a heater or the like. 161,146, Dec. 5.
Wilson, Lawrence H., Detroit, assignor to Motor Wheel Corporation, Lansing, Mich. Cabinet for a heater or the like. 161,147, Dec. 5.
Young, Archibald C., St. Louis, Mo. Educational toy automobile. 161,148, Dec. 5.
Zendman, Isaac, III, assignee: *See*—
Farnsworth, Herbert.
Zifferer, Lothar R., York, assignor to New Standard Corporation, Mount Joy, Pa. Luggage lock. 161,149, Dec. 5.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abramson, Albert, and H. T. Futrell, Houston, Tex. Swivel chair. 2,532,873, Dec. 5.
Active Tool & Manufacturing Company, assignee: *See*—
Shaieb, George A.
Adams, J. D., Manufacturing Company, assignee: *See*—
Rhodes, John W.
Adinamis, Peter J., and S. A. Bennett, Chicago, Ill. Light fixture. 2,532,800, Dec. 5.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Alexander, Kliem.
Air-Maze Corporation, assignee: *See*—
Brown, Richard E.
Air Reduction Company, Incorporated, assignee: *See*—
Anderson, James L.
Tyrner, Joseph M.
Air-Way Electric Appliance Corporation, assignee: *See*—
Nuffer, Joseph H.
Aktiebolaget Separator, assignee: *See*—
Svensjo, Nils E.
Alderson, Witty L., Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company. Plywood. 2,532,983, Dec. 5.
Alexander, Kliem, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Hydrogenated furfuralacetofuran. 2,532,279, Dec. 5.
Alexander, William F.: *See*—
Bennett, Charles W., and Alexander.
Alexander, William G., Chicago, Ill. Device for barbecuing, roasting, broiling, and the like. 2,533,080, Dec. 5.
Allen, John F., Maroubra, Sydney, assignor to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Frequency comparator. 2,532,435, Dec. 5.
Allied Control Company, Inc., assignee: *See*—
Kircher, August C.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Ray, James L.
Sillers, Thomas G. A.
Alton Box Board Company, assignee: *See*—
Belanger, Albert P. D.
Alvarez Vazquez, Amable, Buenos Aires, Argentina. Nail extractor. 2,532,474, Dec. 5.
Amalgamated Wireless (Australasia) Limited, assignee: *See*—
Allen, John F.
Ambrose, C. M., Co., Inc., assignee: *See*—
Lamb, Harry.
Amer, Donald F., Newcastle-on-Tyne, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Fluid-blast electric circuit breaker. 2,532,529, Dec. 5.
American Brake Shoe Company, assignee: *See*—
Browne, Lindsay H.
American Car and Foundry Company, assignee: *See*—
Evans, Morris S., and Kleckner, and Watson.
American Crop-Drying Equipment Company, assignee: *See*—
Andersen, Arthur A., and Mathews.
American Reenforced Paper Company, assignee: *See*—
Kilham, Peter.
American Steel Foundries, assignee: *See*—
Oelkers, Alfred H.
Sedgwick, Robert K.
American Viscose Corporation, assignee: *See*—
Baker, Ralph B.
New, Harry E.
Phillips, John E., Jr.
Stanley, Richard W.
Wedler, Frederick C.
Anastasi, Anthony, Dorchester, Mass. Safety seat for washing windows. 2,532,590, Dec. 5.
Andersen, Arthur A., Crystal Lake, and B. C. Mathews, Chicago, assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill. Crop drying apparatus. 2,532,530, Dec. 5.
Anderson, Edward G. O., West Wickham, and G. G. Bernard, assignors to John Logie Baird Limited, London, England. Video-frequency receiving apparatus. 2,533,081, Dec. 5.
Anderson, Herbert L., Hartford, Conn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Detection apparatus. 2,532,874, Dec. 5.
Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Apparatus for scarfing slabs of different widths. 2,532,385, Dec. 5.
Anderson, Thomas F., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Alkyd resin stabilized with N-aryhydroxy-3-naphthamide. 2,532,475, Dec. 5.
Anderson, Victor E.: *See*—
Michael, Stephen L., and Anderson.
Angert, Jack J., Chicago, Ill. Cigar holder. 2,532,531, Dec. 5.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Birch, Stanley F., Fidler, and Haresnape.
Applied Research Corporation, assignee: *See*—
Weichselbaum, Theodore E.
Arco Company, The, assignee: *See*—
Williams, David M.
Argus, Incorporated, assignee: *See*—
Harvey, James E.
Arlington Chair Co., assignee: *See*—
Keough, Patrick J.
Armendt, Bradshaw F.: *See*—
Shaffer, Sherman S., and Armendt.
Armistead, William H., assignor to Corning Glass Works, Corning, N. Y. Colored phosphate glass. 2,532,386, Dec. 5.
Armitage, Joseph B., Wauwatosa, and J. N. Flannery, West Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Slotting machine. 2,532,591, Dec. 5.
Arnold, Nicholas H., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Journal box lid. 2,532,436, Dec. 5.
Art Metal Construction Company, assignee: *See*—
Jones, James R.
Asaro, Vito, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring structure. 2,532,875, Dec. 5.
Asche, Robert, and J. J. Hubscher, Neuilly sur Seine, France. Electromagnetic artificial muscle. 2,532,876, Dec. 5.
Ashton, Everett H.: *See*—
Mallard, Robert G., and Ashton.
Askania Regulator Company, assignee: *See*—
Zieholz, Herbert.
Ateliers de Constructions Electriques de Charlerol, assignee: *See*—
Meunier, Marcel.
Atkins, E. C., and Company, assignee: *See*—
Wolfe, Charles V.
Atkinson, Ralph G., Maple Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Continuous wax molding process. 2,532,280, Dec. 5.
Atlas Powder Company, assignee: *See*—
Huyett, Daniel D.
Auer, Wilhelm, Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Mounting for reading glasses or the like. 2,532,877, Dec. 5.
Aulin, Tage G., Trollhattan, assignor to J. P. Brandt Aktiebolag, Stockholm, Sweden. Device for measuring the distance between the optical centers of two or more lenses or optical systems. 2,532,878, Dec. 5.
Aurand, Cecil C., Cranford, and C. H. Watrous, North Plainfield, N. J., assignors to General Motors Corporation, Detroit, Mich. Caster and camber checking equipment. 2,532,749, Dec. 5.
Automatic Electric Laboratories, Inc., assignee: *See*—
Burgener, Karl L.
Lomax, Clarence E.
Automatic Telephone & Electric Company, Limited, assignee: *See*—
Baker, George T.
Automatic Totalisators, Limited, assignee: *See*—
Both, Edward T.
Autophon Aktiengesellschaft, assignee: *See*—
Tschumi, Otto.
Avco Manufacturing Corporation, assignee: *See*—
Reid, John D.
Avedikian, Diran G.: *See*—
Avedikian, Souren Z., and D. G.
Avedikian, Souren Z. and D. G., assignors to Tidings Corporation of America, Larchmont, N. Y. Perpetual calendar. 2,532,984, Dec. 5.
Baash-Ross Tool Company, assignee: *See*—
Johnson, Glenn D.
Babcock & Wilcox Company, The, assignee: *See*—
Rowand, Will H.
Backer, Stanley, Primos, Pa. Sandblasting. 2,532,655, Dec. 5.

Backus, Walter M., Jr., and C. W. Jarvis, Silver Spring, Md., assignors to the United States of America as represented by the Secrtary of the Navy. Hydraulic damper. 2,532,656, Dec. 5.

Bailey, Donald L., Buffalo, and G. H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company. Production of methylchlorosilanes. 2,532,387, Dec. 5.

Baird, John Logie, Limited, assignee: *See*—
Anderson, Edward G. O., and Bernard.

Baker, George T., assignor to Automatic Telephone & Electric Company Limited, Liverpool, England. Calling line identifier having display device at operator's position. 2,532,750, Dec. 5.

Baker, James G., Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Highly corrected objective having two inner divergent meniscus components between collective components. 2,532,751, Dec. 5.

Baker, James G., Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Highly corrected four component objective lens. 2,532,752, Dec. 5.

Baker, Lester W., Fort Worth, Tex. Fish lure. 2,532,879, Dec. 5.

Baker, Marlin S., Janesville, and R. W. Randolph, Milton, assignors to The Parker Penn Company, Janesville, Wis. Fountain pen cap. 2,533,082, Dec. 5.

Baker, Ralph B., Springfield, Pa. assignor to American Viscose Corporation, Wilmington, Del. Dyeing acrylonitrile polymers by applying an insoluble azo dyestuff and then heating. 2,532,437, Dec. 5.

Baker-Roos, Inc., assignee: *See*—
Negovan, Albert.

Baker, William R.: *See*—
Kennedy, Joseph W., Baker, and Wiegand.

Baldrica, Rena G., Plains, Pa. Underskirt. 2,532,532, Dec. 5.

Baldwin Locomotive Works, The, assignee: *See*—
Metzger, Lewis W.

Baldwin, Mark L.: *See*—
Baldwin, Philip and M. L.

Baldwin, Philip and M. L., Humboldt, Minn. Combination post puller and jack. 2,532,533, Dec. 5.

Ballantyne, George H., assignee: *See*—
Magnuson, Roy M.

Baltimore Biological Laboratory, assignee: *See*—
Brewer, John H., and Carski.
Carski, Theodore J.

Balzer, Mathias G.: *See*—
Meyer, David, and Balzer.

Banbury, Richard H., Hartford, Conn. Football practice apparatus. 2,532,880, Dec. 5.

Bannon, John H., Cranford, and S. C. Lane, Roselle, N. J., assignors to Standard Oil Development Company. Preventing the sticking of polymers to drying, etc., surfaces. 2,532,985, Dec. 5.

Barber-Colman Company, assignee: *See*—
Sweger, Russell P.
Young, Arthur R.

Barch, William E., assignor to Standard Brands Incorporated, New York, N. Y. Pyrophosphate baking powder. 2,532,281, Dec. 5.

Barnes, Emmett A., Marietta, Ohio. Safety lock for window sashes. 2,532,881, Dec. 5.

Barnhart, John, and G. B. Toney, Eaton, Ohio. Hog coop. 2,532,830, Dec. 5.

Bartlett, Edwin S., Forest Park, assignor to Sunbeam Corporation, Chicago, Ill. Deflection equalizing means for shearing combs. 2,532,476, Dec. 5.

Bata-národní podnik, assignee: *See*—
Bucek, Adolf.

Batcheller, Clements, Glens Falls, N. Y. Metal coating device. 2,532,389, Dec. 5.

Batt, Albert, Jr., Buaffio, N. Y. Drainpipe filter. 2,532,888, Dec. 5.

Bausch & Lomb Optical Company, assignee: *See*—
Auer, Wilhelm.
Stegeman, Raymond F. E.

Beatty, Robert D., Jr., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Heating and ventilating apparatus. 2,532,882, Dec. 5.

Beaunit Mills, Inc., assignee: *See*—
Hofmann, Hugo.

Bechik, Michael, assignor to Bechik Products, Inc., St. Paul, Minn. Handle for mattresses and the like. 2,532,657, Dec. 5.

Bechik Products, Inc., assignee: *See*—
Bechik, Michael.

Beck, Bartlett A., Sr., Portsmouth, Va. Adjustable coupling. 2,532,754, Dec. 5.

Bedford, Howard E., and A. Hall, Brentford, England, assignors, by mesne assignments to Pyrene Development Corporation, Newark, N. J. Fire-extinguishing apparatus. 2,532,986, Dec. 5.

Behr, Harry C. A., Delhi, N. Y., assignor to Sanitary Tampon Corporation, Chambersburg, Pa. Severing of connected tampons. 2,532,438, Dec. 5.

Belanger, Albert P. D., assignor to Alton Box Board Company, Alton, Ill. Winding spool. 2,532,658, Dec. 5.

Bell, Persa R., Jr., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Sweep-voltage generator circuit. 2,532,534, Dec. 5.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bryant, Herbert W.
Corbin, Joseph E., and Newhouse.
De Coste, John B.
Hecht, George.
Knoop, William A.
Lewis, Benjamin F.
Potter, Ralph K.
Stevens, Ralph R.

Beman, Ward W., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Transonic airfoil design. 2,532,753, Dec. 5.

Bender, John H., and D. H. Shooter, Maywood, Calif. Measuring wheel alignment. 2,532,593, Dec. 5.

Bendix Aviation Corporation, assignee: *See*—
Dickey, John W., and Trout.
Neild, William G.
Peterson, Joel D.
Riggen, Theodore K.
Tota, Kenneth P.
Trautman, Walter C.
Warner, Louis A.

Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Patterson, N. J. Terminal for electric power cable systems. 2,532,477, Dec. 5.

Bennett, Charles W., Rochester, N. Y., and W. F. Alexander, Cleveland, Ohio, assignors to Rochester Institute of Technology, Rochester, N. Y. Preparation of a printing surface. 2,532,390, Dec. 5.

Bennett, Paul L., Burbank, and L. A. Bryant, Los Angeles, Calif, said Bennett assignor to said Bryant. Condenser means for measuring level conditions. 2,532,883, Dec. 5.

Bennett, Solon A: *See*—
Adinamis, Peter J., and Bennett.

Benson, Charles F., Jackson, Mich. Spring seat and back structure. 2,532,884, Dec. 5.

Benson, Jimmie M., Miami, Fla. Inhaler. 2,532,282, Dec. 5.

Bentley, Raymond B., Pacific Grove, Calif. Drainer with rotatable drum and encircling belt for confining cans therebetween. 2,532,594, Dec. 5.

Bercovits, Bernard, assignee: *See*—
Johnstone, Louis W., and Gilbert.

Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Connector. 2,533,161, Dec. 5.

Berger, Albert H., Rocky River, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Sheet-metal gas burner. 2,532,439, Dec. 5.

Berger, Albert H., Rocky River, assignor, by mesne assignments, to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Fuel tank bowl connection. 2,532,595, Dec. 5.

Bergès, André C., Mimisan-Plage, France. Vortex type separator for paper pulp. 2,532,885, Dec. 5.

Bernard, Geoffrey G.: *See*—
Anderson, Edward G. O., and Bernard.

Berndt, Richard F., Racine, Wis., assignor to Virkotype Corporation. Belt guide and tensioning device. 2,532,987, Dec. 5.

Berry, Kenneth L., Hockessin, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Water-repellent fibrous structures and obtaining same. 2,532,691, Dec. 5.

Bersworth, Frederick C., Verona, N. J. Alkylene polyamine derivatives. 2,532,391, Dec. 5.

Bersworth, Frederick C., Verona, N. J. Addition products of sulfuric acid and polycarboxylic tertiary amino acids. 2,532,392, Dec. 5.

Betner, Benjamin C., Company, assignee: *See*—
Higginbottom, William E.

Bettle, Philip R.: *See*—
Handoll, Percy G., and Bettle.

Bianchi, Pasquale P., Barrington, R. I. Screen structure. 2,532,886, Dec. 5.

Biesen, Arthur W., Whiting, assignor to W. B. Conkey Company, Hammond, Ind. Tape threading machine. 2,532,535, Dec. 5.

Bigelow, Charles A., Houston, Tex. Continuous lighting system for aircraft landing strips. 2,532,988, Dec. 5.

Bilger, Anson S., assignee: *See*—
Combs, Presley S.

Biondi, Angelo F., Brooklyn, N. Y. Automobile door cover. 2,532,989, Dec. 5.

Birch, Stanley F., F. A. Fidler, and J. N. Haresnape, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Production and recovery of para-xylene. 2,532,276, Dec. 5.

Birtman Electric Company, assignee: *See*—
Sparklin, Charles H.

Blackburn, William H., Lincoln, England. Device for suspending clothes and like articles. 2,533,083, Dec. 5.

Blaha, Emil, Cheltenham, assignor to Selas Corporation of America, Philadelphia, Pa. Burner block. 2,532,990, Dec. 5.

Blicke, Frederick F., Washtenaw County, assignor to Regents of the University of Michigan, Ann Arbor, Mich. Aminoalkyl esters of dithienyl aliphatic acids. 2,533,084, Dec. 5.

Blicke, Frederick F., assignor to Regents of the University of Michigan, Ann Arbor, Mich. Aminohydroxybutenes. 2,533,085, Dec. 5.

Blicke, Frederick F., Washtenaw County, assignor to Regents of the University of Michigan, Ann Arbor, Mich. Hydroxymethylthianaphthene. 2,533,086, Dec. 5.

Blicke, Frederick F., Washtenaw County, assignor to Regents of the University of Michigan, Ann Arbor, Mich. Thianaphthenylmethyl benzoate. 2,533,087, Dec. 5.

Bloomfield, John J., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Aircraft propeller drive. 2,532,755, Dec. 5.

Bobrov, Samuel H., Chicago, Ill. Tape dispenser and applier. 2,532,596, Dec. 5.

Bobrov, Samuel H., and S. A., Chicago, Ill. Tape dispenser and applier. 2,532,597, Dec. 5.

Bobrov, Sol A.: *See*—
Bobrov, Samuel H. and S. A.

Bock, James A.: *See*—
Giachetto, John J., Snuggs, and Bock.

Boeger, Henry F., Beverly Hills, assignor to Surgident, Ltd., West Los Angeles, Calif. Guard device for syringes for use with heat-fluent materials. 2,532,598, Dec. 5.

Boehm, Paul F., Greenwich, Conn. Ellipse generator. 2,532,353, Dec. 5.

Boiney, Joseph F.: *See*—
Shepard, Alvin F., and Boiney.

Bolidens Gruvaktiebolag, assignee: *See*—
Malmqvist, Johan D., Gustafsson, and Werner.

Bongart, Marcel J. P.: *See*—
Brunjes, Austin S., and Bogart.

Bopp, Cecil W.: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Bor, Bruno J., Chicago, Ill. Sled construction. 2,532,887, Dec. 5.

Borberg, Willy, Astoria, N. Y., assignor to International Projector Corporation, Bloomfield, N. J. Support portable loud-speakers. 2,532,692, Dec. 5.

Borg-Warner Corporation, assignee: *See*—
Rockwell, Edward A.

Both, Edward T., Cremorne, near Sydney, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia. Odds computing means for race totalizators. 2,532,693, Dec. 5.

Boucher, Cormack E., Seattle, Wash. Method and apparatus for locating welds in hollow metal bodies. 2,532,536, Dec. 5.

Bourquin, Edgar, Los Angeles, Calif. Clock mounting means. 2,532,599, Dec. 5.

Boyden, Frank D., South Portland, Maine, assignor to Sacco-Lowell Shops, Boston, Mass. Spindle brake. 2,533,162, Dec. 5.

Brandt, J. P., Aktiebolag, assignee: *See*—
Aulin, Tage G.

Bratman, Jack H., Long Beach, Calif. Slack adjuster and stay attachment for finger rings. 2,532,354, Dec. 5.

Braun, William L., Norwalk, Conn. Carroting brush and carroting fur on a skin with said brush. 2,532,991, Dec. 5.

Breese Burners, Inc., assignee: *See*—
Breese, James L.

Breese, James L., assignor, by mesne assignments, to Breese Burners, Inc., Santa Fe, N. Mex. Combustion chamber and turbine arrangement. 2,532,831, Dec. 5.

Brenner, Abner, Chevy Chase, Md., and G. E. Riddell, Washington, D. C. Nickel plating by chemical reduction. 2,532,283, Dec. 5.

Brenner, Abner, Chevy Chase, Md., and G. E. Riddell, Washington, D. C. Cobalt plating by chemical reduction. 2,532,284, Dec. 5.

Brewer, John H., and T. J. Carski, assignors to Baltimore Biological Laboratory, Baltimore, Md. Petri dish cover. 2,533,088, Dec. 5.

Brewer, John H., and T. J. Carski, assignors to Baltimore Biological Laboratory, Baltimore, Md. Petri dish cover. 2,533,089, Dec. 5.

Bricker, Carl E., Akron, and D. D. Neff, Uniontown, assignors to Wingfoot Corporation, Akron, Ohio. Rubber bushing for link mounted brakes. 2,533,186, Dec. 5.

Bridges, Donald A., Muncie, Ind., assignor to Owens-Illinois Glass Company. Building block. 2,532,478, Dec. 5.

Brill, Everett C., assignor of one-half to J. G. Schnell, Granby, Conn. Protective device. 2,532,285, Dec. 5.

Brink, Norman G., Princeton, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Hydrochlorides of streptomycin oxime and streptomycin amine. 2,532,393, Dec. 5.

Broersma, Robert J., assignor of one-half to H. T. Parker, Grand Haven, and one-half to N. E. Hubbell, Zeeland, Mich. Display rack. 2,532,600, Dec. 5.

Broos, Jan: *See*—
Kröger, Ferdinand A., and Broos.

Brown, Alexander P., Beechhurst, N. Y. Vertically stringed grand piano. 2,532,286, Dec. 5.

Brown, Charles C., Spokane, Wash. Protractoboard. 2,532,537, Dec. 5.

Brown, Richard E., assignor to Air-Maze Corporation, Cleveland, Ohio. Crankcase pressure control. 2,532,888, Dec. 5.

Brown, Robinson, and H. E. Metcalf, assignors to Institute of Industrial Research, San Antonio, Tex. Lawn sprinkler. 2,532,356, Dec. 5.

Brown, William R., Cleveland, Ohio. Convertible bed, dresser and davenport. 2,532,355, Dec. 5.

Browne, Lindsay H., Westport, Conn., assignor to American Brake Shoe Company. Epicyclic drive. 2,532,992, Dec. 5.

Brunjes, Austin S., Plandome, N. Y., and M. J. P. Bogart, Teaneck, N. J., assignors to The Lummus Company, New York, N. Y. Tower reactor. 2,532,756, Dec. 5.

Bryan, Frederick A.: *See*—
Taplin, George V., and Bryan.

Bryant, Herbert W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone transmitter having frusto-conical back electrode. 2,532,694, Dec. 5.

Bryant, Leland A.: *See*—
Bennett, Paul L., and Bryant.

Buček, Adolf, Otrokovice, assignor to Bata, národní podnik, Zlin, Czechoslovakia. Machine for smoothing or ironing leather, particularly shoe sole leather. 2,532,601, Dec. 5.

Buckeridge, Roger M., assignor to Goodman Manufacturing Company, Chicago, Ill. Speed control system. 2,532,287, Dec. 5.

Buick, John A., Norfolk, Va. Pull match package. 2,532,440, Dec. 5.

Bulin, Martin: *See*—
Penker, Ernest, and Bulin.

Bur, Armand, Cleveland, Ohio. Car dumper sampling apparatus. 2,533,090, Dec. 5.

Burdick, Will S., Wauwatosa, and K. Schneider, Greendale Village, assignors to Harnischfeger Corporation, Milwaukee, Wis. Crane boom mounting. 2,532,602, Dec. 5.

Burgener, Karl L., Villa Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Tie line circuit arrangement. 2,532,889, Dec. 5.

Burgess Cellulose Company, assignee: *See*—
Schorger, Arlie W.

Burgess, Frank H., Philadelphia, Pa. Method and machine for gluing and folding paper boxes. 2,532,479, Dec. 5.

Burndy Engineering Company, Inc., assignee: *See*—
Rogoff, Julian.

Burns, Bruce, Yucca Valley, Calif. Snap-lock wrench. 2,532,659, Dec. 5.

Burtt, Horatio H., Hartsdale, C. E. Soderstrom, New York, and W. W. Koenig, Flushing, assignors to Winchester Electronics Company, New York, N. Y. Self-separating electrical connector. 2,532,538, Dec. 5.

Buschow, Herman F., North Arlington, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Heat exchange unit. 2,532,288, Dec. 5.

Bushnell, James D.: *See*—
Hertwig, Waldemar R., and Bushnell.

Butterworth, Archibald J., Camberley, England. Differential gear for motor vehicles or the like. 2,532,757, Dec. 5.

Cadman, Ira F., assignor to The Union Switch & Signal Company, Swissdale, Pa. Approach lock release in railway signaling systems. 2,532,832, Dec. 5.

Cahill, John L., Dayton, Ohio. Open bottom deposit and collection receptacle. 2,532,289, Dec. 5.

Caldwell, Walter A.: *See*—
Thomson, Robin H. K., and Caldwell.

Callender, William H., and G. S. Cesena, San Diego, Calif. Automatic brake releasing apparatus. 2,532,357, Dec. 5.

Campani, Louis M., Freeport, assignor to The Liquidometer Corporation, Long Island City, N. Y. Plural scale telemetering indicating system. 2,533,091, Dec. 5.

Canister Company, The, assignee: *See*—
Ricciardi, Matthew C.

Cannon, John F., Springfield, Ill. Power driven toothbrush. 2,532,480, Dec. 5.

Cantral, John L.: *See*—
Silver, Walter H., and Cantral.

Cardox Corporation, assignee: *See*—
Spencer, Russell.

Care, Arthur J. P., Toronto, Ontario, Canada. Apparatus for producing fiber staples. 2,532,660, Dec. 5.

Carlsson, Henry O.: *See*—
Wallentin, Åke H., Carlsson, and Vesterlund.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Lorig, Edwin T.
Markel, Glenn R.
Schulze, Arthur R.

Carper, Earl W., Parkersburg, W. Va. Device for stacking and wrapping coins. 2,532,603, Dec. 5.

Carr, George W., Chicago, Ill. Door. 2,532,758, Dec. 5.

Carski, Theodore J.: *See*—
Brewer, John H., and Carski.

Carski, Theodore J., assignor to Baltimore Biological Laboratory, Baltimore, Md. Ampoule holding rack. 2,532,604, Dec. 5.

Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Band-pass filter. 2,532,993, Dec. 5.

Case, J. I., Company, assignee: *See*—
Russell, Stanley D.
Schroeppel, Paul R.

Castle, Clemens X., Silver Spring, Md., assignor to R. M. Wilmotte, New York, N. Y. Phase monitor. 2,532,890, Dec. 5.

Castle, John E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 1,6 hexanediamine derivatives. 2,532,277, Dec. 5.

Castleberry, Jack, Jasper, Ala. Automobile axle. 2,532,605, Dec. 5.

Cataldo, John B., Annandale, and K. E. Vroom, Summit, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Double-acting solenoid. 2,533,187, Dec. 5.

Celanese Corporation of America, assignee: *See*—
Fortess, Fred, and Duke.

Cella, William J., Forest Hills, N. Y. Box and similar container. 2,532,833, Dec. 5.

Central Scientific Company, assignee: *See*—
Hangosky, Clarence W., and Hornberger.

Cesena, Genovero S.: *See*—
Callender, William H., and Cesena.

Chadwick, Albert F., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of hydantoin formaldehyde resins. 2,532,278, Dec. 5.

Chausse, Wilfred G., Detroit, Mich. Hot-blast road repairing machine. 2,532,994, Dec. 5.

Chausse, Wilfred G., Detroit, Mich. Heated hose. 2,532,995, Dec. 5.

Cherry, Harold A., Northfield, Birmingham, assignor to Kalamazoo Limited, Birmingham, England. Loose-leaf binder. 2,532,695, Dec. 5.

Chestnutt, John E., Richmond, Va. Tobacco curing apparatus. 2,533,092, Dec. 5.

Chewning, Wallace D.: *See*—
Frazelle, Jay B.
Frazelle, Jay B., and Chewning.

Chicago Coin Machine Co., assignee: *See*—
Rood, Jerry C.

Chicago Metallic Manufacturing Company, assignee: *See*—
Langel, Adrien L.

Chicago Pump Company, assignee: *See*—
Morgan, Philip F., and Lawrenz.

Chouinard, Alfred F.: *See*—
Mott, Chester, Chouinard, and Tylutki.

Christenson, Donald L., Haddon Heights, N. J., assignor to Radio Corporation of America. Oscillation generator circuit. 2,532,834, Dec. 5.

Chrysler Corporation, assignee: *See*—
Clark, Bruce E.
Patterson, Matthew C.
Robinson, Maurice C.

Chupp, Warren W., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Flanged joint sealing gasket. 2,532,891, Dec. 5.

Church, J. Frank, Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater. 2,532,606, Dec. 5.

Churchman, Nellie, executrix: *See*—
Churchman, Russell C.

Churchman, Russell C., deceased, Des Moines, Iowa; N. Churchman, executrix of said R. C. Churchman. Valve used as a control. 2,532,607, Dec. 5.

Clark Bros Co., Inc., assignee: *See*—
McNail, Fredlee M.

Clark, Bruce E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fluid pressure operated disk brake with compensating piston. 2,533,093, Dec. 5.

Clark, Otho A., and O. D. Hughes, Atherton, Mo. Hinge structure for spraying attachments. 2,532,996, Dec. 5.

Clark, William E., Arkansas City, Kans. Aperture meter. 2,532,892, Dec. 5.

Clayton & Lambert Manufacturing Company, assignee: *See*—
Stemmons, Robert, and Edel.

Cleveland Chain and Manufacturing Company, The, assignee: *See*—
Martin, Charles C.

Cleveland Punch & Shear Works Co., The, assignee: *See*—
Weiland, John N.

Coate, Ralph S., Haddonfield, N. J., assignor to Radio Corporation of America. Cathode-ray tube tester. 2,532,759, Dec. 5.

Cochran, Charles W., Jr., U. S. N., Yeadon, Pa. Compound indicating instrument. 2,532,290, Dec. 5.

Cohen, Charles A., Roselle Park, N. J., assignor to Standard Oil Development Company. Production of alkaline earth sulfonates. 2,532,997, Dec. 5.

Cohn, Irwin, Leominster, Mass. Sound-producing toy pin wheel. 2,532,835, Dec. 5.

Colorado Iron Works Company, assignee: *See*—
Weinig, Arthur J.

Columbia Broadcasting System, Inc., assignee: *See*—
Schlesinger, Kurt.

Combined Optical Industries Limited, assignee: *See*—
Johnson, John.

Combs, P. S., assignee: *See*—
Combs, Presley S.

Combs, Presley S., assignor to P. S. Combs and A. S. Bilger, Los Angeles, Calif. Monorail wheel. 2,532,661, Dec. 5.

Compagnie Francaise de Raffinage (Societe Anonyme), assignee: *See*—
Schaeffer, Jean A.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Warnecke, Robert, and Lortie.

Compania Salitrera de Tarapaca y Antofagasta, assignee: *See*—
Lemesne, Sherman D.

Comstock, Edison S., assignor of fifty per cent to J. H. Comstock, Lincoln, Nebr. Medical spoon. 2,532,696, Dec. 5.

Comstock, John H., assignee: *See*—
Comstock, Edison S.

Congdon, Waldo F., assignee: *See*—
Cox, Parker G.

Conkey, W. B., Company, assignee: *See*—
Biesen, Arthur W.

Consolidated Iron-Steel Manufacturing Company, The, assignee: *See*—
Berger, Albert H.

Conway, John W., Bridgeport, Conn. Clothesline pulley assembly. 2,532,998, Dec. 5.

Cook Electric Company, assignee: *See*—
Hasselhorn, Walter C.

Cooper, Henry, Hackensack, assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Selvage motion. 2,533,094, Dec. 5.

Copes, Joseph P., Easton, Pa., and C. McKinley, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Dehydration of sodium sulfide. 2,533,163, Dec. 5.

Corbin, Joseph E., West Orange, and R. C. Newhouse, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage supply apparatus. 2,532,697, Dec. 5.

Corkins, Lloyd A., Battle Creek, Mich. Dispensing apparatus for dispensing measured amounts of granular material. 2,532,698, Dec. 5.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Hings, Donald L.

Corning Glass Works, assignee: *See*—
Armistead, William H.

Coronet Phosphate Company, assignee: *See*—
Maust, Ernest J., and Hollingsworth.

Counter, Virgil A., and W. M. Fairbank, Cambridge, and J. Halpern, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Testing device for radio object detection systems. 2,532,539, Dec. 5.

Courtaulds Limited, assignee: *See*—
Givens, John H., Wale, and Rose.

Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Multiple gap arc starting lonizer. 2,533,095, Dec. 5.

Cox, Parker G., Rochester, N. Y., assignor to W. F. Congdon. Air-line lubricator. 2,532,441, Dec. 5.

Crane Co., assignee: *See*—
Schmidt, Edward G.

Crotty, Thomas A., Erie, Pa. Cable holder. 2,532,893, Dec. 5.

Crown Cork & Seal Company, Inc., assignee: *See*—
Enkur, Edward M., Pahl, and Lauve.

Croxall, Willard J., Bryn Athyn, and L. R. Freimiller, assignors to Rohm & Haas Company, Philadelphia, Pa. Phenylmercaptoacrylates and phenylmercaptomaleates. 2,532,291, Dec. 5.

Cudd, Herschel H., and E. J. Freeman, East Point, Ga., assignors to International Minerals & Chemical Corporation. Production of iron powder. 2,533,096, Dec. 5.

Cupido, Piet M., B. O. M. Gall, J. L. H. Jonker, and A. J. W. M. van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Thermionic tube. 2,532,836, Dec. 5.

Currier, Leslie W., Jr., Kingston, N. H. Cooking machine. 2,532,894, Dec. 5.

Cusic, John W., assignor to G. D. Searle & Co., Skokie, Ill. Diarylmethyl ethers of amino alkanols. 2,532,292, Dec 5.

Custer, Willard R., Hagerstown, Md. Multiple channel wing airplane. 2,532,481, Dec. 5.

Custer, Willard R., Hagerstown, Md. Boundary layer remover for airplanes. 2,532,482, Dec. 5.

Cutler-Hammer, Inc., assignee: *See*—
Cox, Irvin W.
Heller, Herbert E.

Dahlgren, Einer W., assignee: *See*—
Mitchell, Harry A.

Dailey, Lawrence A., Elizabeth, and E. A. Erickson, Clairton, Pa. Automatic billet stamper. 2,532,540, Dec. 5.

Daland, Elliott, Wallingford, and D. N. Meyers, Philadelphia, assignors, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa. Control for tandem rotored hellcopters. 2,532,483, Dec. 5

Dale, Clarence R., Altadena, Calif. Union and expansion joint. 2,533,097, Dec. 5.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Mounting for wire recorder supply spools. 2,532,541, Dec. 5.

Dalin, David, Stenkullen, Ronninge, Sweden. Heating. 2,532,608, Dec. 5.

Daly, Le Grand, Birmingham, Mich. Molded article. 2,532,442, Dec. 5.

Damiano, Frank, Newburgh, N. Y. Catchup dispenser. 2,532,484, Dec. 5.

D'Amico, Paul M., Philadelphia, Pa. Line holder. 2,532,394, Dec. 5.

Danis, George H., Oakland, Calif. Cooling hotboxes. 2,532,609, Dec. 5.

Dannatt, Cecil: *See*—
Polson, Reginald A., and Dannatt.

Dansk Skrivemaskinefabrik ved Foss, Rindom & Lauritzen, assignee: *See*—
Thunbo, Anton P. R.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,532,358, Dec. 5.

Davidson, Norman R.: *See*—
Fried, Sherman, and Davidson.

Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Arranging and feeding apparatus. 2,532,760, Dec. 5.

Davis, Franklin O.: *See*—
Patrick, Joseph C., and Davis.

D'Avitaya, Raymond F. A. V., Marseille, France. Driving of motion-picture film. 2,532,542, Dec. 5.

Day, Eugene C., San Mateo, Calif. Paint can attachment. 2,532,895, Dec. 5.

Dearborn Company, The, assignee: *See*—
Kelly, Gooding N.

De Blasio, Conrad G., Red Bank, N. J. Magnetic recorder adapter for motion-picture projectors. 2,532,761, Dec. 5.

De Coste, John B., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sealing composition. 2,532,699, Dec. 5.

Deere & Company, assignee: *See*—
Silver, Walter H., and Cantral.

Deere Manufacturing Co., assignee: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Deletaille, Emile, Woluwe-St. Pierre, Belgium. Speed variator. 2,532,762, Dec. 5.

Demmer, Edward U., assignee: *See*—
Elliott, Gordon R.

Dennison Manufacturing Company, assignee: *See*—
Ogden, Floyd H.

De Puy, Charles T., Brighton, assignor to Trimble Nurseryland Furniture, Inc., Rochester, N. Y. Dressing table for infant's bath stand. 2,532,837, Dec. 5.

Detroit Lubricator Company, assignee: *See*—
Dillman, Earnest J.

Devaney, Lawrence W., Fishkill, assignor to The Texas Company, New York, N. Y. Nuclear halogenation of thiophene. 2,533,098, Dec. 5.

De Vitto, Salvatore T., Chicago, Ill., assignor to Society Brand Clothes, Inc. Garment pressing machine. 2,533,188, Dec. 5.

De Weese, Eugene R., Arlington, Va. Tone arm carriage. 2,532,293, Dec. 5.

De Young, Peter, Clifton, Tex. Motor operated hedge or grass trimmer. 2,532,982, Dec. 5.

Diamond Power Specialty Corporation, assignee: *See*—
Handoll, Percy G., and Bettle.

Dickey, John W., Newfield, and N. S. Trout, Jr., Elmira, assignors to Bendix Aviation Corporation, Elmira Heights, N. Y. Electromagnetic pump. 2,533,164, Dec. 5.

Diemer, Gesinus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube comprising an indirectly heated cathode. 2,532,838, Dec. 5.

Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Temperature operated valve. 2,532,896, Dec. 5.

Ditter, Francis J., Minneapolis, Minn. Aircraft ski. 2,532,610, Dec. 5.

Ditter, Francis J., Minneapolis, Minn. Aircraft ski. 2,532,611, Dec. 5.

Dodenhoff, William D., Greenville, S. C. Bumper construction for loom pickers. 2,532,543, Dec. 5.

Dodge, Adiel Y., Rockford, Ill. Electromechanically controlled planetary transmission. 2,532,897, Dec. 5.

Donahoe, Donald J. and P. J., Fort Dodge, Iowa. Heatable water tank. 2,532,999, Dec. 5.

Donahoe, Paul J.: *See*—
Donahoe, Donald J. and P. J.

Dorrestijn, Jan: *See*—
Van Overbeek, Adrianus J. W. M., and Dorrestijn.

Douglas Aircraft Company, Inc., assignee: *See*—
Marty, Frank A.

Doumani, Thomas F., assignor to Union Oil Company of California, Los Angeles, Calif. Preparation of unsaturated thio-ethers. 2,532,612, Dec. 5.

Dover Industries, Inc., assignee: *See*—
Jensen, Leo D.

Dow Corning Corporation, assignee: *See*—
Hunter, Melvin J.

Dowling, Leslie H., Sutton Coldfield, England. Antislip tread. 2,532,485, Dec. 5.

Dreyfus, Camille, New York, N. Y. Cord. 2,532,395, Dec. 5.

Drmic, Stipan A., Watsonville, Calif. Pruning shears. 2,532,359, Dec. 5.

Drugman, George R., West Palm Beach, Fla. Electric can opener. 2,532,898, Dec. 5.

Dubost, Charles, Lancey, France. Aerodynamic lifting device. 2,532,899, Dec. 5.

Duke, Marshall: *See*—
Fortess, Fred, and Duke.

Duncan, Edward T., Jacksonville, Ill. Windshield deicing apparatus. 2,533,000, Dec. 5.

Duner Company, assignee: *See*—
Duner, Sven.

Duner, Sven, assignor to Duner Company, Chicago, Ill. Shielded water closet. 2,532,763, Dec. 5.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Alderson, Witty L., Jr.
Berry, Kenneth L.
Castle, John E.
Chadwick, Albert F.
Howk, Benjamin W., and Farlow.
Hume, Harold F.
Kirby, James E.
Klein, David X.
Krchma, Ignace J.
Langkammerer, Carl M.
Larchar, Arthur W.
Romilly, Llewellyn E.
Salisbury, Leroy F.
Searle, Norman E.
Thomas, John C.
Tyran, Leo W.
Woodward, Harold E.

Durez Plastics and Chemicals, Inc., assignee: *See*—
Shepard, Alvin F., and Boiney.

Dutcher, Harris A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion in pebble heaters. 2,532,613, Dec. 5.

Earhart, Charles H., assignor of one-fourth to D. L. Gebhart, Danville, Ill. Photographic camera. 2,533,099, Dec. 5.

Earl Realty Company, assignee: *See*—
Tom, John E.

Eastman Kodak Company, assignee: *See*—
Johnson, Merriam E., and Warren.

Eaton Manufacturing Company, assignee: *See*—
Beatty, Robert D., Jr.

Eberhard, Everett, Haddonfield, N. J., assignor to Radio Corporation of America. Flip-flop counter circuit. 2,533,001, Dec. 5.

Ebert, Louis J., Little Valley, N. Y. Separable tire rim. 2,532,764, Dec. 5.

Eby, Lawrence T.: *See*—
Jasion, Leo Z., and Eby.

Eckel, John E., and M. R. Jones, assignors to Oil Center Tool Company, Houston, Tex. Wellhead assembly. 2,532,662, Dec. 5.

Eclipse Fuel Engineering Company, assignee: *See*—
Scharbau, Kurt A., and Stadler.

Edel, Walter L.: *See*—
Stemmons, Robert, and Edel.

Edwards, Frank E.: *See*—
Edwards, Robert D. and F. E.

Edwards, Robert D. and F. E., Miami, Fla. Machine for assembling Venetian blinds. 2,532,294, Dec. 5.

Eidman, Albert W.: *See*—
Melegan, William E., and Eidman.

Ellerman, George E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Urea-formaldehyde resins of high naphtha tolerance. 2,532,396, Dec. 5.

Electricite de France, assignee: *See*—
Maillat, Gustave E.

Ellinger, Leo P.: *See*—
Goldberg, Alan A., and Ellinger.

Elliott, Edward L., Arlington, Va., assignor to Federal Business Machines Corporation, Washington, D. C. Copyholder. 2,532,765, Dec. 5.

Elliott, Gordon R., Ferndale, Mich., assignor to I. A. Puchner and E. U. Demmer, Milwaukee, Wis. Pressure differential servomotor and control. 2,532,801, Dec. 5.

Ellis, Charles G., Union, N. J., assignor to The Oilgear Company, Milwaukee, Wis. Clamping mechanism for draw presses. 2,532,663, Dec. 5.

Ellis-Foster Company, assignee: *See*—
Joy, Homer V.

Empire Box Corporation, assignee: *See*—
Hall, Maynard G.

English, Loretta L., executrix: *See*—
Griffin, Percy M.

Enkur, Edward M., Babylon, N. Y., L. F. Pahl, and L. L. Lauve, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Container capping structure. 2,532,900, Dec. 5.

Erickson, Ernest A.: *See*—
Dailey, Lawrence A., and Erickson.

Ericssons, L. M., Kassaregister Aktiebolag, assignee: *See*—
Werner, Sture E.

Estler, Louis C.: *See*—
Falconer, William H., and Estler.

Etched Products Corporation, assignee: *See*—
Penker, Ernest, and Bulin.

Etnyre, George M., Oregon, Ill. Brake controlled accelerator linkage. 2,532,544, Dec. 5.

Eurich, James V.: *See*—
Eurich, Joe E. G. and J. V.

Eurich, Joe E. G., Manchester, and J. V. Eurich, Bolton, England. Electric motor and generator. 2,532,700 Dec. 5.

Eustis, William E. C.: *See*—
Konrad, Erich H., and Eustis.

Evans, Alfred W., Gloucester, Va. Winch control mechanism. 2,532,360, Dec. 5.

Evans, John, assignor to Mountain Valve Company, Inc., Salt Lake City, Utah. Valve for water softening apparatus. 2,532,614, Dec. 5.

Evans, Morris S., A. O. Kleckner, and E. A. Watson, Buffalo, assignors to American Car and Foundry Company, New York, N. Y. Band groove serrating machine. 2,532,397, Dec. 5.

Evans Products Company, assignee: *See*—
Storch, Harold A.

Everhart, Edgar, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Magnetron oscillator. 2,532,545, Dec. 5.

Ewell, Robert B., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Thermal conversion of hydrocarbons. 2,532,615, Dec. 5.

Fairbank, William M.: *See*—
Counter, Virgil A., Fairbank, and Halpern.

Fairbanks, Gordon J., and V. N. Tramontini, Indianapolis, Ind., assignors to Stewart-Warner Corporation, Chicago, Ill. Heating and ventilating system. 2,532,486, Dec. 5.

Falcofsky, Albert, assignee: *See*—
Hayden, Arthur C.

Falconer, William H., Ridgewood, and L. C. Estler, Wortendyke, N. J. Making intaglio or gravure printing plates. 2,532,701, Dec. 5.

Farlow, Mark W.: *See*—
Howk, Benjamin W., and Farlow.

Farwell, H. Russell, Quincy, Ill. Stenciling apparatus. 2,532,802, Dec. 5.

Faulkner, Roy M., assignor to Wilson-Jones Company, Chicago, Ill. Notebook clamp. 2,532,487, Dec. 5.

Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Magnetic recording, reproducing, and erasing apparatus. 2,532,803, Dec. 5.

Fawick, Thomas L., Cleveland, Ohio. Making an article having a porous inner part and a molded cover thereon. 2,532,839, Dec. 5.

Federal Business Machines Corporation, assignee: *See*—
Elliott, Edward L.

Federal Electric Products Company, assignee: *See*—
Jensen, Helge.

Fehlmann, Henri, Courtelary, Switzerland. Leather splitting machine. 2,532,398, Dec. 5.

Feldkamp, Rolland F., Troy, assignor to Sterling Drug Inc., New York, N. Y. 1-methyl-3-piperidylmethyl phenyl-(2-thienyl) acetate, its salts and production thereof. 2,533,002, Dec. 5.

Feldkamp, Rolland F., Troy, assignor to Sterling Drug Inc., New York, N. Y. 1-methyl-3-piperidylmethyl 3-hydroxy-2-phenylbutanoate, its salts and production thereof. 2,533,003, Dec. 5.

Feneron, Emile E., Clichy, France, assignor to Société Airsseo. Control and safety device against explosions of tubing and receivers in air compressing plants. 2,532,488, Dec. 5.

Ferguson, Carl S., Newton, Mass. Composition for preserving articles of food and the like. 2,532,489, Dec. 5.

Fernandez, Fortunato P., Madrid, Spain. Lock for doors and the like. 2,532,399, Dec. 5.

Ferris Instrument Laboratories, assignee: *See*—
Montcalm, Surrius R.

Ferry, John D., Woods Hole, Mass., and P. R. Morrison, Washington, D. C., assignors to the United States of America as represented by the Secretary of War. Fibrin cloths and preparing the same. 2,533,004, Dec. 5.

Fidler, Frederick A.: *See*—
Birch, Stanley F., Fidler, and Haresnape.

Figaro Company, Inc., The, assignee: *See*—
Hill, Troy D.

Flanagan, Francis L.: *See*—
Hermann, Benjamin R., and Flanagan.

Flannery, James N.: *See*—
Armitage, Joseph B., and Flannery.

Flasher, Irving L., St. Paul, Minn. Garment with breathing sleeve action. 2,532,702, Dec. 5.

Fletcher, Charles J., assignee: *See*—
Romyns, Charles J.

Florence Stove Company, assignee: *See*—
Reitzes, Herbert M.

Flory, Paul J., Kent, and N. Rabjohn, assignors to Wingfoot Corporation, Akron, Ohio. Hydrazo esters. 2,533,189, Dec. 5.

Fliigel, Walter, H. M. Hemmi, K. Hofer, and A. Mikula, assignors to Sandoz Limited, Basel, Switzerland. Nylon immunized against dyes by sulfurized phenols. 2,533,100, Dec. 5.

Folkers, Karl: *See*—
Brink, Norman G., and Folkers.

Forbes, Gordon D., Sudbury, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving target indicating system. 2,532,546, Dec. 5.

Fortess, Fred, Summit, N. J., and M. Duke, Cumberland, Md., assignors to Celanese Corporation of America. Sizing compositions. 2,532,400, Dec. 5.

Fram Corporation, assignee: *See*—
Kennedy, Walter V.

Franklin, George C., Anaheim, Calif. Requisition holder. 2,532,361, Dec. 5.

Franz, Earl E., Canton, Ohio. Teeter-totter and merry-go-round. 2,533,005, Dec. 5.

Frazelle, Jay B., Manhattan Beach, assignor to W. D. Chewning, Santa Monica, Calif. Rug holding means. 2,532,703, Dec. 5.

Frazelle, Jay B., and W. D. Chewning, Santa Monica, Calif., said Frazelle assignor to said Chewning. Staple pin attaching means. 2,532,704, Dec. 5.

Freedman, Benjamin H., assignor to General Register Corporation, New York, N. Y. Ticket. 2,532,664, Dec. 5.

Freeman, Emma J.: *See*—
Cudd, Herschel H., and Freeman.

Freimiller, Louis R.: *See*—
Croxall, Willard J., and Freimiller.

Freund, Robert R., Mount Carmel, Ill. Adjustable footrest for chairs and invalid beds. 2,532,705, Dec. 5.

Freund, Robert R., Mount Carmel, Ill. Adjustable lavatory for articulated beds. 2,532,706, Dec. 5.

Freundlich, Albert, Bronx, assignor to Nu-Plast Binding Co., Inc., Flushing, N. Y. Bookbinding machine. 2,532,443, Dec. 5.

Frieden, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Collapsible tube having metallic lining with low lead pickup and making same. 2,532,804, Dec. 5.

Fried, Sherman, Chicago, Ill., and N. R. Davidson, Sierra Madre, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Method of preparation of neptunium trifluoride. 2,532,707, Dec. 5.

Fries, Adam J.: *See*—
Hoffman, Edward J., Hardy, and Fries.

Fries, Bernard A., El Cerrito, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Recovery of C^{14} activities. 2,532,490, Dec. 5.

Frink, Marilyn E.: *See*—
Trempel, Larry G., and Frink.

Frueh, John J., Maywood, Calif. Sliding door mechanism. 2,532,491, Dec. 5.

Futrell, Harry T.: *See*—
Abramson, Albert, and Futrell.

Gadalowitz, Harry, Brooklyn, N. Y. Reinforced crotch for men's underwear. 2,532,805, Dec. 5.

Gage, Frederick W., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Calcium silicate-rubber compositions containing carbonate esters and compounding thereof. 2,532,665, Dec. 5.

Galkin, Joseph, New York, N. Y. Vibration absorbing mounting for sewing machines. 2,532,767, Dec. 5.

Gall, Bernardus O. M.: *See*—
Cupido, Piet M., Gall, Jonker, and van Overbeek.

Galleret, Paul F., Le Havre, France. Convertible table with vertically adjustable mechanism. 2,532,766, Dec. 5.

Gardner, Daniel, New York, N. Y. Thermal process for producing the carbides of tantalum and columbium. 2,532,295, Dec. 5.

Garvey, James, Vancouver, British Columbia, Canada. Manually controlled soap press. 2,532,666, Dec. 5.

Gascoignes (Reading) Limited, assignee: *See*—
Kingston, Jonas A.

Gaun, Harry M., Montclair, assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Folding extension device. 2,532,840, Dec. 5.

Gebhart, Donald L., assignee: *See*—
Earhart, Charles H.

General Aniline & Film Corporation, assignee: *See*—
Copes, Joseph P., and McKinley.
Jones, Giffin D.
Leonard, John E.
Max, Fritz, and Randall.
McKinley, Clyde.
Randall, David I., and Renfrew, Jr.
Sargent, Donald E.
Straley, James M.
Trump, Frederick O.
Unkauf, Henry C.

General Electric Company, assignee: *See*—
Faus, Harold T.
Harker, David.
Hermann, Benjamin R., and Flanagan.
Hewson, Charles R.
Kurtz, Lowell M.
Lafferty, James M., and Sharbaugh.
Schaefer, Vincent J.
Storm, Herbert F.
Thomas, Charles A.

General Motors Corporation, assignee: *See*—
Aurand, Cecil C., and Watrous.
Henney, Charles F.
Kieser, Roy F.
Petersen, Ludvig.
Pfeiffer, Wilbur H.
Underwood, Arthur F., and Stone.

General Register Corporation, assignee: *See*—
Freedman, Benjamin H.

Gerendás, Mihaly: *See*—
Szent-Gyorgyi, Albert, Laki, and Gerendás.

Germana, Carmel, Cleveland, Ohio. Playground swing. 2,532,444, Dec. 5.

Ghrist, David M., Glendale, Calif. Photographic film holder. 2,533,101, Dec. 5.

Giachetto, John J., Calumet City, and J. F. Snuggs, Chicago, Ill., and J. A. Bock, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. HF extraction of high sulfur gas oil. 2,532,492, Dec 5.

Giesen, Joseph H., Waterville, Maine. Bone screw and fastening. 2,532,296, Dec. 5.

Gifford, Clayton E., assignor to The Huber Manufacturing Company, Marion, Ohio. Device for pivotally connecting the frame of a road roller with a supporting roll. 2,532,806, Dec. 5.

Gifford, John E., Richmond, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Container for radioactive samples. 2,533,102, Dec. 5.

Gilbert, Charles E.: *See*—
Johnstone, Louis W., and Gilbert.

Gilbert, William L., Clock Corporation, The, assignee: *See*—
Poole, Arthur B., and Morganson.

Girard, Dean C., San Leandro, and F. T. Roach, Hayward, Calif., assignors, by mesne assignments, to National Cylinder Gas Company. Arc-welding torch. 2,532,807, Dec. 5.

Givens, John H., Meriden, J. Wale and L. Rose, Coventry, assignors to Courtaulds Limited, London, England. Apparatus for the liquid treatment of threads. 2,533,103, Dec. 5.

Glenside Bag Company, assignee: *See*—
Wagner, Melvin.

Globe Products Heat Seal Corporation, assignee: *See*—
Reitzes, Herbert L.

Glynn, John J., Chicago, Ill. Fusee lighting and launching device. 2,532,901, Dec. 5.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Scavenging system for rocket motors utilizing liquid nitrogen. 2,532,708, Dec. 5.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Liquid cooled baffles between mixing and combustion chambers. 2,532,709, Dec. 5.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Vapor generating and control apparatus for combustion chambers. 2,532,710, Dec. 5.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Expanded conical nozzle for two combustion liquids. 2,532,711, Dec. 5.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Vane structure for rotating combustion chambers. 2,532,712, Dec. 5.

Goertz, Raymond C., Hempstead, N. Y., assignor to The Sperry Corporation. Modulating circuits having a full wave alternating voltage output. 2,532,297, Dec. 5.

Goldberg, Alan A., Shepton, Mallet, and L. P. Ellinger, Halewood, Liverpool, assignors to Ward, Blenkinsop & Company Limited, London, England. 2-aminoalkylglyoxaline derivatives and the production thereof. 2,532,547, Dec. 5.

Golden, Carl E., Burlingame, and O. L. Notley, San Francisco, Calif. High primary type gas burner with radiant screen. 2,533,104, Dec. 5.

Goldsmith, Harry B., Jr.: *See*—
Jackson, Herbert W., and Goldsmith.

Goldsmith, William, New York, N. Y. Key identification holder. 2,533,006, Dec. 5.

Goldstein, Samuel R., New York, N. Y. Skirt marker. 2,532,298, Dec. 5.

Goodman Manufacturing Company, assignee: *See*—
Buckeridge, Roger M.
Sloane, William W.
Slomer, Joseph J.

Goodrich, B. F., Company, The, assignee: *See*—
Haren, Urban C.
Krupp, Carroll P.
Slusher, Frank.
Snyder, Clarence E.

Goodwin, Roland D., Lakewood, Ohio. Metal variable shutter awning. 2,532,401, Dec. 5.

Gottfried, Alois, Los Angeles, Calif. Resilient seat support. 2,532,713, Dec. 5.

Grant, Max L., assignee: *See*—
Wilcox, Granville M.

Gravely Motor Plow & Cultivator Company, assignee: *See*—
Rose, Eustace L.

Gray, Edward, assignee: *See*—
Kamler, Benedict R.

Greco, Pasquale, New York, N. Y. Apparatus for cleaning equipment with a chemical agent. 2,532,299, Dec. 5.

Green, Frank T.: *See*—
Hussey, Chester L., and Green.

Greenway, Lewis M., Lansdowne, Pa. Table top and supporting frame. 2,532,902, Dec. 5.

Griffin, Percy M., deceased, Rensselaer, N. Y.; L. L. English, executrix of said P. M. Griffin. Oarlock socket. 2,533,190, Dec. 5.

Griffin, Ramon A., Oklahoma City, Okla. Safety razor. 2,532,714, Dec. 5.

Grinnell, George G., Quincy, Mass. Foldable tray blank and tray. 2,532,808, Dec. 5.

Groat, Francis P., assignor to The Magee Carpet Company, Bloomsburg, Pa. Weaving pile fabrics. 2,532,903, Dec. 5.

Groff, Inez M., Mishawaka, Ind. Thread stitch ripping device. 2,533,105, Dec. 5.

Grover, Donald P., Chicago, Ill. Rotary toothbrush with lip guard. 2,533,106, Dec. 5.

Grover, Donald P., Chicago, Ill. Rotary toothbrush with movable lip guard. 2,533,107, Dec. 5.

Grover, Donald P., Chicago, Ill. Rotary toothbrush with lip guard. 2,533,108, Dec. 5.

Gruendler Crusher & Pulverizer Co., assignee: *See*—
Shelton, Harry J.

Guay, Leopold J., Flushing, N. Y. Elevator control system. 2,532,809, Dec. 5.

Guggenheim, Daniel and Florence Foundation, The, assignee: *See*—
Goddard, Robert H.

Guild, Thomas A., Waipahu, T. H. Cane harvesting machine. 2,532,904, Dec. 5.

Gump, G. F., Co., assignee: *See*—
Williams, Ralph E.

Gustafsson, Gotthard V. A.: *See*—
Malmqvist, Johan D., Gustafsson, and Werner.

Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Broiler. 2,532,445, Dec. 5.

Haegele, Richard A., Elmhurst, Ill. Egg opener having pivoted hammer. 2,533,007, Dec. 5.

Hagedorn, Hans C., assignor to Nordisk Insulinlaboratorium, Gentofte, Denmark. Container for injection medicines. 2,533,165, Dec. 5.

Hagerstown Engineering Company, Inc., assignee: *See*—
Kindsvatter, Richard L.

Hale, Gerald A., Oklahoma City, Okla. Cumulative indexing mechanism. 2,532,906, Dec. 5.

Halek, Charles, Cleveland, Ohio. Device for forming trouser cuffs. 2,532,362, Dec. 5.

Hall, Arthur: *See*—
Bedford, Howard E., and Hall.

Hall, Maynard G., Rutherford, assignor to Empire Box Corporation, Garfield, N. J. Bottle carrier. 2,532,446, Dec. 5.

Hall, Sidney W., San Antonio, Tex. Self-adjusting rocker arm. 2,532,905, Dec. 5.

Halpern, Julius: *See*—
Counter, Virgil A., Fairbank, and Halpern.

Halward, Folke, Detroit, Mich. Piston lock. 2,532,768, Dec. 5.

Hamilton, Monroe H.: *See*—
Toland, William C., Reynolds, and Hamilton.

Hammond Iron Works, assignee: *See*—
Plummer, Fred L.

Handoll, Percy G., and P. R. Bettle, London, England, assignors to Diamond Power Specialty Corporation, Detroit, Mich. Manually oscillatable and rotatable portable soot blower. 2,532,447, Dec. 5.

Hanff, Edward A., assignor to Swindell-Dressler Corporation, Pittsburgh, Pa. Furnace door operating mechanism. 2,532,841, Dec. 5.

Hangosky, Clarence W., East Lansing, Mich. Method and apparatus for electrolytically treating metal surfaces. 2,532,907, Dec. 5.

Hangosky, Clarence W., East Lansing, Mich., and C. S. Hornberger, Glen Ellyn, Ill., said Hornberger assignor to Central Scientific Company. Electrolytic processing apparatus. 2,532,908, Dec. 5.

Hannover, Hans, Hellerup, Copenhagen, Denmark. Rotatable suction container filling machine. 2,533,109, Dec. 5.

Hanovia Chemical and Manufacturing Company, assignee: *See*—
Samer, Rudolf W.

Hansen, Merlin: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Hanson, Arnold B., assignor of fifty per cent to G. Johnson, Minneapolis, Minn. Artificial leg. 2,533,008, Dec. 5.

Hanson, Earl M.: *See*—
Tschohl, Harry J., and Hanson.

Harbert, Otis D., Covina, Calif. Weather vane. 2,533,110, Dec. 5.

Hardy, Edgar E., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Compositions of matter comprising halogenated organic compounds. 2,532,616, Dec. 5.

Hardy, William G.: *See*—
Hoffman, Edward J., Hardy, and Fries.

Haren, Urban C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Belt measuring machine. 2,532,715, Dec. 5.

Haresnape, John N.: *See*—
Birch, Stanley F., Fidler, and Haresnape.

Harker, David, Schenectady, N. Y., assignor to General Electric Company. X-ray diffraction apparatus for use with radioactive materials. 2,532,810, Dec. 5.

Harnischfeger Corporation, assignee: *See*—
Burdick, Will S., and Schneider.

Harsh, Carl R., Newton, Iowa. Disk sharpener. 2,533,009, Dec. 5.

Hart, James F., Bishop, Calif., assignor of one-half to A. M. Talmadge, Bishop, Calif.; J. A. Hart, administratrix of said J. F. Hart, deceased. Wearing apparel support. 2,532,909, Dec. 5.

Hart, Jo Ann, administratrix: *See*—
Hart, James F.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Cupido, Piet M., Gall, Jonker, and van Overbeek.
Diemer, Gesinus.
Janssen, Peter J. H.
Jonker, Johannes L. H.
Knol, Kornelis S., Strutt, and vander Ziel.
Kröger, Ferdinand A., and Broos.
Rinia, Herre.
Roovers, Wilhelmus A., Veenemans, and van Steenis.
Schouten, Jan K.
Six, Willem, and Jonker.
Van Gelder, Zeger, and van Overbeek.
Van Overbeek, Adrianus J. W. M., and Dorrestijn.

Hartman, Herman G., Rockville, Md., assignor to Underwood Corporation, New York, N. Y. Tilt compensator for typewriters. 2,533,111, Dec. 5.

Harvey, James E., assignor to Argus, Incorporated, Ann Arbor, Mich. Focusing objective. 2,532,300, Dec. 5.

Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,532,363, Dec. 5.

Hasselhorn, Walter C., assignor to Cook Electric Company, Chicago, Ill. Bellows. 2,532,448, Dec. 5.

Hatcher, David B., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Production of silanes. 2,532,493, Dec. 5.

Hauser, George H., Berkeley, and F. R. Wagner, Oakland, assignors to B. Walker, Piedmont, Calif. Venetian blind. 2,532,617, Dec. 5.

Havlick, Jesse L., assignor of forty per cent to G. Meidema, Spokane, Wash. Double tube core barrel for core drilling. 2,532,716, Dec. 5.

Hawkins, Roe C., Long Beach, Calif. Pickup truck with automatic tilt. 2,532,717, Dec. 5.

Hayden, Arthur C., Nantucket, assignor of thirty-three and one-third per cent to A. Falcofsky and thirty-three and one-third per cent to B. Smola, New Bedford, Mass. Inserter or remover for thumbtacks. 2,533,112, Dec. 5.

Hayward, James R., Washington, Ind., assignor, by mesne assignments, to McCord Corporation, Detroit, Mich. Condenser. 2,532,301, Dec. 5.

Hayward, James R., Washington, Ind., assignor to McCord Corporation, Detroit, Mich. Making heat exchangers. 2,532,302, Dec. 5.

Hayward, James R., Washington, Ind., assignor to McCord Corporation, Detroit, Mich. Apparatus for making finned tube heat exchangers. 2,532,303, Dec. 5.

Hayward, Ralph A., assignor to Kalamazoo Vegetable Parchment Company, Parchment, Mich. Apparatus for drying paper, paperboard, pulp, and the like. 2,532,910, Dec. 5.

Hazeltine Research, Inc., assignee: *See*—
Sheppard, Charles B.

Hecht, George, Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coordinate selecting and lockout circuit. 2,532,718, Dec. 5.

Heerich, Edgar W., Westfield, N. J. Calculating device. 2,532,819, Dec. 5.

Helde, Samuel S., Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company. Disposal of waste pickle liquor. 2,532,548, Dec. 5.

Helzer, Edward J., West Caldwell, and M. R. Stuart, assignors to Specialties Development Corporation, Belleville, N. J. Control device for winding machines. 2,532,804, Dec. 5.

Heller, Herbert E., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,532,305, Dec. 5.

Hemmi, Hans M.: *See*—
Flügel, Walter, Hemmi, Hofer, and Mikula.

Hemphill Company, assignee: *See*—
St. Pierre, Eugene.

Henabery, Joseph E., Jackson Heights, N. Y. Method and apparatus for visually determining unknown vibration characteristics. 2,533,010, Dec. 5.

Hennessy, James J., Montclair, N. J. Railway journal box dust guard. 2,532,449, Dec. 5.

Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerated vehicle. 2,532,618, Dec. 5.

Henry, Harry H., assignor to Monark Silver King, Inc., Chicago, Ill. Wire wheel spoke tightening machine. 2,533,113, Dec. 5.

Hensler, Elmer G., Barton, Wis., assignor to McGraw Electric Company. Making paper tubes. 2,532,494, Dec. 5.

Henson, Robert L., Jr., and J. W. Millington, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa. Drive for seismographic record strips. 2,532,911, Dec. 5.

Herbert, Oscar A., Hollywood, Calif. Article carrying device. 2,532,306, Dec. 5.

Herbold, Robert J., assignor to L. M. Hughes, Denver, Colo. Navigating instrument for craft and pilot guidance. 2,532,402, Dec. 5.

Hermann, Benjamin R., Lanesborough, and F. L. Flanagan, Pittsfield, Mass., assignors to General Electric Company. Electric cutout. 2,532,811, Dec. 5.

Hertwig, Waldemar R., Whiting, and J. D. Bushnell, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Removal of HF from HF-oil and oil-HF solutions. 2,532,495, Dec. 5.

Hess, Gerard C., Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War. Signal responsive system. 2,532,307, Dec. 5.

Hewson, Charles R., Altamont, N. Y., assignor to General Electric Company. Welding control system. 2,532,826, Dec. 5.

Hickman, Leo F. and M., Corpus Christi, Tex. Crankshaft sleeve. 2,532,912, Dec. 5.

Hickman, Manuel: *See*—
Hickman, Leo F. and M.

Higginbottom, William E., Newark, N. J., assignor to Benjamin C. Betner Company, Devon, Pa. Package filling machine. 2,532,913, Dec. 5.

Higgs, Paul M., Seattle, Wash., assignor to the United States of America as represented by the Secretary of the Navy. Linear time axis pressure recorder. 2,532,620, Dec. 5.

Higinbotham, William A., Santa Fe, N. Mex., and R. Pepinsky, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Aircraft radar-map roll correction system. 2,532,549, Dec. 5.

Hill, Troy D., Shreveport, La., assignor to The Figaro Company, Inc., Dallas, Tex. Curing meat and to processes for producing the curing means. 2,532,842, Dec. 5.

Hill, William C., Detroit, Mich. Bicycle pedal adapter. 2,533,011, Dec. 5.

Hings, Donald L., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Pulse reception system. 2,532,450, Dec. 5.

Hings, Donald L., Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Radio-frequency inverter relay circuit. 2,532,451, Dec. 5.

Hings, Donald L., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. High-speed pulse reception system. 2,532,667, Dec. 5.

Hipp, Primus T., La Grange, Ga. Loom harness lifter. 2,532,496, Dec. 5.

Hirschler, Alfred E., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Purification of branched chain paraffins. 2,532,668, Dec. 5.

Hoefler, Raymond H.: *See*—
Sherer, Chester G., Koontz, and Hoefler.

Hoekstra, James, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of inorganic oxide particles. 2,532,497, Dec. 5.

Hoesel, Anthony F., assignor, by mesne assignments to A. Wittlin, Chicago, Ill. Externally adjustable tubular fluid flow restrictor for refrigeration systems. 2,532,452, Dec. 5.

Hofer, Kurt: *See*—
Flügel, Walter, Hemmi, Hofer, and Mikula.

Hoffman, Edward J., W. G. Hardy, and A. J. Fries, Pittsburgh, Pa. Antiskid device for motor vehicles. 2,532,309, Dec. 5.

Hofmann, Hugo, Elizabethton, Tenn., assignor, by mesne assignments, to Beaunit Mills, Inc., New York, N. Y. Recovering copper oxide and a d-tartrate from a spinning solution. 2,532,308, Dec. 5.

Hogan, John P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pretreatment of hydrocarbon synthesis catalysts. 2,532,621, Dec. 5.

Hoglan, Forest A., Toledo, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill. Manufacture of glutamic acid. 2,533,114, Dec. 5.

Hollingsworth, Clinton A.: *See*—
Maust, Ernest J., and Hollingsworth.

Holm, John M.: *See*—
Taylor, James, and Holm.

Holmes, Richard E.: *See*—
Rhyne, Jeff S., and Holmes.

Homrighous, John H., Oak Park, Ill. Time-division multiplex radiophone system. 2,532,310, Dec. 5.

Homrighous, John H., Oak Park, Ill. Dimensional radio communication system. 2,532,719, Dec. 5.

Hopkins, Robert K., Staten Island, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Apparatus for producing alloy ingots. 2,532,914, Dec. 5.

Hoppens, Harold A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Polymerizable polyesters. 2,532,498, Dec. 5.

Hornberger, Carl S.: *See*—
Hangosky, Clarence W., and Hornberger.

Horner, Herbert J., Dayton, Ohio. Method and apparatus for determining malposition of vertebrae. 2,532,915, Dec. 5.

Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse selective system. 2,532,843, Dec. 5.

Houpt, Jesse M., Sioux City, Iowa. Kitchen sink and cabinet combined. 2,532,769, Dec. 5.

Houston, George J., Scranton, Pa. Rattrap. 2,532,916, Dec. 5.

Howe, Eugene E., Linden, and M. Tishler, assignors to Merck & Co., Inc., Rahway, N. J. Pyrogen removal from streptomycin salts. 2,532,403, Dec. 5.

Howell, Hugh A., Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill. Dual channel magnetic recorder and method. 2,532,917, Dec. 5.

Howk, Benjamin W., and M. W. Farlow, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Gas phase hydrogenation of dihydromuconononitrile to adiponitrile. 2,532,311, Dec. 5.

Hubbard, Arthur F., assignor to The Herman Nelson Corporation, Moline, Ill. Steam heating system. 2,532,550, Dec. 5.

Hubbell, Norwood E., assignee: *See*—
Broersma, Robert J.

Huber, John E., Cincinnati, Ohio. Chair and tray combination. 2,532,812, Dec. 5.

Huber Manufacturing Company, The, assignee: *See*—
Gifford, Clayton E.

Hubscher, Jean J.: *See*—
Asche, Robert, and Hubscher.

Huckins, Arthur S., Brookline, Pa. Rotary multicolor printing press. 2,533,012, Dec. 5.

Huelster, Otto J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Fastener. 2,533,115, Dec. 5.

Hughes, Lafayette M., assignee: *See*—
Herbold, Robert J.

Hughes, Ocie D.: *See*—
Clark, Otho A., and Hughes.

Hulbert, Edwin F., Jr.: *See*—
Hulbert, Edwin F., Sr., and E. F., Jr.

Hulbert, Edwin F., Sr., and E. F. Hulbert, Jr., Watertown, Wis. Beading machine. 2,532,844, Dec. 5.

Hume, Harold F., Marshallton, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Method and apparatus for the two-stage draw of synthetic funicular structures. 2,533,013, Dec. 5.

Hungerford, Churchill, Jr., Wenonah, assignor to Hungerford & Terry, Inc., Clayton, N. J. Fluid distributing or collecting system for water softeners, filters, and the like. 2,532,918, Dec. 5.

Hungerford & Terry, Inc., assignee: *See*—
Hungerford, Churchill, Jr.

Hunter, Melvin J., assignor to Dow Corning Corporation, Midland, Mich. Organo silicon derivatives of cellulose. 2,532,622, Dec. 5.

Hussey, Chester L., Belchertown, and F. T. Greene, Easthampton, Mass., assignors to Savage Arms Corporation, Utica, N. Y. Lawn mower construction. 2,532,813, Dec. 5.

Huyett, Daniel D., assignor to Atlas Powder Company, Wilmington, Del. Assembly of electric explosion initiators. 2,532,770, Dec. 5

Hydraulic Brake Company, assignee: *See*—
La Brie, Ludger E.

Hydril Corporation, assignee: *See*—
MacArthur, Melvin D.

Hydrocarbon Research, Inc., assignee: *See*—
Buschow, Herman F.

Imperial Chemical Industries Limited, assignee: *See*—
Taylor, James, and Holm.
Thomson, Robin H. K., and Caldwell.

Indiana Steel Products Company, The, assignee: *See*—
Howell, Hugh A.

Industrial Rayon Corporation, assignee: *See*—
Melegan, William E., and Eidman.

Ingersoll-Rand Company, assignee: *See*—
McConaghy, James W.
Slater, Fred M.

Ingraham, E., Company, The, assignee: *See*—
Riemer, Walter F.

Innacelli, Frank L., Red Bank, N. J. Paper file fastener. 2,532,313, Dec. 5.

Institute of Industrial Research, assignee: *See*—
Brown, Robinson, and Metcalf.

International Minerals & Chemical Corporation, assignee: *See*—
Cudd, Herschel H., and Freeman.
Hoglan, Forest A.

International Mutoscope Corporation, assignee: *See*—
Rabkin, William, Lissiansky, and Sebestyen.

International Projector Corporation, assignee: *See*—
Borberg, Willy.

Invincible Metal Furniture Company, assignee: *See*—
Reimer, John F.

Isenberg, Alexander H., assignee: *See*—
Williamson, Thomas F. M.

Jackson, Herbert W., Clarendon Hills, and H. B. Goldsmith, Jr., Evanston, Ill. Apron tie means assembly. 2,532,499, Dec. 5.

Jacobson, Benjamin D., New Brunswick, N. J. Removable handle for knives. 2,533,014, Dec. 5.

Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Water distributing device for mixers. 2,533,191, Dec. 5.

Jaeger Machine Company, The, assignee: *See*—
Jaeger, Gebhard.

Jagger, Ivan D., assignor to Wheeler Paper Corporation, Albany, N. Y. Ratchet drive. 2,532,404, Dec. 5.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Drawer slide actuating mechanism for cabinets and the like. 2,532,405, Dec. 5.

James, Paul A., Louisville, Ky. Chair having a tilting seat and back unit. 2,532,453, Dec. 5.

Janssen, Peter J. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cathode-ray tube circuit. 2,532,720, Dec. 5.

Jarvis, Charles W.: *See*—
Backus, Walter M., Jr., and Jarvis.

Jarvis, George A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Biconical electromagnetic horn antenna. 2,532,551, Dec. 5.

Jaslon, Leo Z., Elizabeth, and L. T. Eby, Roselle, N. J., assignors to Standard Oil Development Company. Herbicidal composition. 2,533,015, Dec. 5.

Jenkins, Felton S., Philadelphia, Pa. Control system for doors. 2,533,116, Dec. 5.

Jensen, Helge, Flushing, N. Y., assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J. Insulation support for bus bars. 2,532,845, Dec. 5.

Jensen, Leo D., assignor to Dover Industries, Inc., Chicago, Ill. Belt grinder and polisher. 2,532,500, Dec. 5.

Jernigan, William B., Waskom, Tex. Neon tube and electrode holder. 2,532,406, Dec. 5.

Jindella, William: *See*—
Schwartzman, Daniel B., and Jindella.

Jirsa, Emil F., M. Hansen, and C. W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co. Speed control means for hydraulic mechanisms. 2,532,552, Dec. 5.

Joeck, Thomas D., Westfield, N. J. Atomizing by supersonic sound vibrations. 2,532,554, Dec. 5.

Johansson, Sven C., Goteborg, Sweden. Corrosion inhibiting compositions. 2,532,407, Dec. 5.

Johns-Manville Corporation, assignee: *See*—
Mackey, William H., and Wedebrock.
Wedebrock, Archibald L.

Johnson, Bert H., Moline, assignor to Quad-City Engineering Co., Rock Island, Ill. Can opener. 2,532,553, Dec. 5.

Johnson, Carl E., Idaho Falls, Idaho. Potato harvesting machine. 2,532,314, Dec. 5.

Johnson, Charles M., assignor to R. C. Johnson, Jr., Lubbock, Tex. Splash shield closing means for acetylene generators. 2,533,117, Dec. 5.

Johnson, Evert F., assignor to The Pennzoil Company, Oil City, Pa. Machine for enabling systematized customer notification service. 2,532,364, Dec. 5.

Johnson, Evert F., assignor to The Pennzoil Company, Oil City, Pa. Record card. 2,532,365, Dec. 5.

Johnson, Evert F., assignor to The Pennzoil Company, Oil City, Pa. Mechanism for addressing and applying postage stamps to mailing pieces. 2,532,366, Dec. 5.

Johnson, Glenn D., Compton, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Casing head. 2,532,408, Dec. 5.

Johnson, Gust, assignee: *See*—
Hanson, Arnold B.

Johnson, John, assignor to Combined Optical Industries Limited, Slough, England. Molding of plastics. 2,532,501, Dec. 5.

Johnson, Merriam E., and H. G. Warren, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Apparatus and process for evacuating electronic tubes and the like. 2,532,315, Dec. 5.

Johnson, R. C., Jr., assignee: *See*—
Johnson, Charles M.

Johnson, Theodore A., and H. H. Thompson, assignors to Wingfoot Corporation, Akron, Ohio. Regeneration of synthetic rubber. 2,533,016, Dec. 5.

Johnson, Theodore A., and H. H. Thompson, assignors to Wingfoot Corporation, Akron, Ohio. Reclaiming synthetic rubber. 2,533,017, Dec. 5.

Johnson, William A., Farnborough, England. Radio aerial system, and particularly directive aerial system. 2,532,919, Dec. 5.

Johnson, William A., Farnborough, England. Radio aerial system, and particularly directive aerial system. 2,532,920, Dec. 5.

Johnstone, Louis W., Warlingham, and C. E. Gilbert, Chipstead, England, assignors to B. Bercovitz, Toronto, Ontario, Canada. Loose-leaf binder. 2,532,771, Dec. 5.

Joho, Olga, Basel, Switzerland. Appliance for mending ladders. 2,532,409, Dec. 5.

Jones, Giffin D., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Polymerizing water-soluble polyacrylamides and poly-alpha-substituted acrylamides. 2,533,166, Dec. 5.

Jones, James R., Lakewood, assignor to Art Metal Construction Company, Jamestown, N. Y. Filing cabinet drawer. 2,532,623, Dec. 5.

Jones, Marvin R.: *See*—
Eckel, John E., and Jones.

Jones, Marvin R., assignor to Oil Center Tool Co., Houston, Tex. Balanced thrust swivel joint. 2,532,669, Dec. 5.

Jonker, Johan L. H.: *See*—
Cupido, Piet M., Gall, Jonker, and van Overbeek.
Six, Willem, and Jonker.

Jonker, Johannes L. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Manufacture of electron discharge tubes. 2,532,846, Dec. 5.

Jordan, Wesley D., assignor to Charles F. Orvis Co. Inc., Manchester, Vt. Making split bamboo rods or poles. 2,532,814, Dec. 5.

Joy, Homer V., Montclair, N. J., assignor of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Dentures, compositions, and methods. 2,532,502, Dec. 5.

Junkin, John L., Los Angeles, Calif. Fuel control valve. 2,532,847, Dec. 5.

K-D Manufacturing Company, assignee: *See*—
Kulp, Harry W.

Kahn, Harry J., Matawan, N. J. Sodium silicate cement composition. 2,533,118, Dec. 5.

Kalamazoo Limited, assignee: *See*—
Cherry, Harold A.

Kalamazoo Vegetable Parchment Company, assignee: *See*—
Hayward, Ralph A.

Kalitinsky, Andrew, Eagleville, Conn., and C. R. Soderberg, Weston, Mass., assignors to United Aircraft Corporation, East Hartford, Conn. Cooling turbine rotor. 2,532,721, Dec. 5.

Kamfjord, Nils R., Nøtterøy, Norway. Adjustable hinge. 2,532,772, Dec. 5.

Kamler, Benedict R., South Haven, Mich., assignor to E. Gray, Chicago, Ill. Tone arm protecting mechanism. 2,532,555, Dec. 5.

Kandarian, Samuel M., Fowler, Calif. Toilet paper holder. 2,533,018, Dec. 5.

Kane, Stanley E., assignor to Mosebach Electric & Supply Company, Pittsburgh, Pa. Electrical connector. 2,532,464, Dec. 5.

Kashian, Minas H., Boston, Mass. Hair-trimming scissors. 2,532,921, Dec. 5.

Kaytor, John C., Lynwood, Calif. Garage door and remote control therefor. 2,532,722, Dec. 5.

Kearney & Trecker Corporation, assignee: *See*—
Armitage, Joseph B., and Flannery.

Keeler Brass Company, assignee: *See*—
Jakeway, Gerald V.

Kellam, Arthur M., Tujunga, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Quick-disconnect duct joint. 2,532,773, Dec. 5.

Kellogg, M. W. Company, The, assignee: *See*—
Hopkins, Robert K.

Kelly, Gooding N., assignor to The Dearborn Company, Chicago, Ill. Supplemental apron for center extension table. 2,533,119, Dec. 5.

Kelly, Walter E., Portland, Oreg. Cast stone units for building walls and the laying them in courses. 2,532,922, Dec. 5.

Kelsey-Hayes Wheel Company, assignee: *See*—
Sinclair, Charles W.

Kennedy, Harry E., Berkeley, Calif., assignor to The Linde Air Products Company. Inert monatomic gas shielded metal-arc welding process. 2,532,410, Dec. 5.

Kennedy, Harry E., Berkeley, Calif. assignor to The Linde Air Products Company. Constant-potential submerged-melt metal-arc welding. 2,532,411, Dec. 5.

Kennedy, Joseph W., Santa Fe, N. Mex., W. R. Baker, Berkeley, Calif, and C. E. Wiegand, Santa Fe, N. Mex., assignors to the United States of America as represented by the United States Atomic Energy Commission. Electronic counting circuits. 2,532,503, Dec. 5.

Kennedy, Walter V., Central Falls, R. I. assignor to Fram Corporation. Seal for filter cartridges. 2,533,192, Dec. 5.

Keough, Patrick J., assignor to Arlington Chair Co., Gardner, Mass. High chair construction. 2,532,556, Dec. 5.

Ketcham, Bruce V., Manchester, Conn. Combination baby swing and table assembly. 2,533,019, Dec. 5.

Kieser, Roy F., assignor to General Motors Corporation, Dayton, Ohio. Binding screw connection. 2,532,623, Dec. 5.

Kilham, Peter, Plainville, assignor to American Reenforced Paper Company, Attleboro, Mass. Method and apparatus for applying adhesive to fibrous [redacted]. 2,533,167, Dec. 5.

Kindsvatter, Richard L. V. assignor to Hagerstown Engineering Company, Inc., Hagerstown, Md. Special lock screw. 2,532,815, Dec. 5.

Kingston, Jonas A., assignor to Gascoignes (Reading) Limited, Reading, England. Apparatus for cooling milk and for filling milk containers. 2,532,557, Dec. 5.

Kirby, James E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control compositions for the control of bacteria and fungi containing 1,2-diacylethylene. 2,532,558, Dec. 5.

Kircher, August C., Queens Village, N. Y. assignor, by mesne assignments, to Allied Control Company, Inc. Electric relay. 2,532,624, Dec. 5.

Kirk, Cassius L., assignee: *See*—
Magnuson, Roy M.

Kitchen, Harry D., Grand Rapids, Mich., assignor to Sackner Products, Inc. Making paper yarn. 2,532,923, Dec. 5.

Kleckner, Abraham O.: *See*—
Evans, Morris S., Kleckner, and Watson.

Klein, David X., Andover, Mass., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrocarbosilicon isocyanates. 2,532,559, Dec. 5.

Kleineberg, Paul E., Easton, Pa., assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Signature hopper mechanism. 2,532,626, Dec. 5.

Knol, Kornelis S., M. J. O. Strutt, and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement for amplifying ultra high frequency electrical oscillations. 2,533,020, Dec. 5.

Knopp, William A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Servomotor circuit. 2,532,723, Dec. 5.

Koci, Jerry C., Riverside, assignor, by mesne assignments, to Chicago Coin Machine Co., Chicago, Ill. Multiple switch. 2,532,627, Dec. 5.

Koci, Jerry C., Riverside, assignor to Chicago Coin Machine Co., Chicago, Ill. Game apparatus. 2,532,628, Dec. 5.

Koenig, William W., *See*—
Burtt, Horatio H., Soderstrom, and Koenig.

Koh-I-Noor L. & C. Hardtmuth, National Corporation, assignee: *See*—
Votruba, Vojtěch.

Konrad, Erich H., and W. E. C. Eustis, South Strafford, Vt., assignors to Sulphide Ore Process Company, Inc., New York, N. Y. Electrodepositing iron. 2,532,629, Dec. 5.

Koontz, James M.: *See*—
Sherer, Chester C., Koontz, and Hoefler.

Kravitz, Samuel, Washington, D. C. Iron hanger. 2,532,848, Dec. 5.

Krchma, Ignace J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Separating metal halide vapors. 2,533,021, Dec. 5.

Kreisler, Jacques, Manufacturing Corporation, assignee: *See*—
Gaun, Harry M.

Kröger, Ferdinand A., and J. Broos, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnesium silicate titanate phosphor. 2,532,774, Dec. 5.

Krupp, Carroll P., Barberton, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Dual seal closure. 2,532,724, Dec. 5.

Kuhl, Gerald L., Chester, Minn. Vehicle take-off. 2,533,022, Dec. 5.

Kulczycki, Karol, Jersey City, N. J., and W. Lundgren, Sharon, Mass., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Bobbin discharge chute. 2,533,120, Dec. 5.

Kulp, Harry W., Lancaster, Pa., assignor, to K-D Manufacturing Company. Valve spring compressor. 2,533,121 Dec. 5.

Kurtz, Lowell M., Erie, Pa., assignor to General Electric Company. Air circulating arrangement for refrigerators. 2,532,816, Dec. 5.

La Brie, Ludger E., assignor to Hydraulic Brake Company, Detroit, Mich. Braking system for motor vehicles. 2,532,670, Dec. 5.

Lafferty, James M., Schenectady, and A. H. Sharbaugh, Scotia, N. Y., assignors to General Electric Company. Apparatus for analyzing fluids by microwave absorption. 2,532,817, Dec. 5.

Lafer, Joseph K., Kansas City, Mo. Bottle carrier. 2,532,725, Dec. 5.

Lajoie, Louis J., Belleville, and T. F. Rosinski, Elizabeth, N. J. Bird feeder. 2,532,726, Dec. 5.

Láki, Kálman: *See*—
Szent-Gyorgyi, Albert, Láki, and Gerendás.

Lamb, Harry, Madison, Wis., assignor to C. M. Ambrose Co., Inc., Seattle, Wash. Mechanism for straining paint and the like. 2,532,560, Dec. 5.

Landfried, Elsie E., administratrix: *See*—
Landfried, John E.

Landfried, John E., deceased, East Palestine, Ohio; E. E. Landfried, administratrix of said J. E. Landfried. Temperature controlled electrically heated washing machine. 2,533,122, Dec. 5.

Landis Tool Company, assignee: *See*—
Price, Ralph E.

Lane, Stanley C.: *See*—
Bannon, John H., and Lane.

Langel, Adrien L., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill. Receptacle closure. 2,532,818, Dec. 5.

Langkammerer, Carl M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Beta-tertiary-aminoadiponitriles. 2,532,561, Dec. 5.

Lapsley, Rhea P., Rutherford, assignor to The Okonite Company, Passaic, N. J. Method and apparatus for installing electric cable systems. 2,532,504, Dec. 5.

Larchar, Arthur W., Mendenhall, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining vinyl chloride styrene polymers. 2,532,727, Dec. 5.

Larkin, George R., Dayton, Ohio. Automatically releasable cover for aircraft Pitot tubes. 2,532,316, Dec. 5.

Larman, James I., Kensett, Ark. Tire removing device. 2,532,412, Dec. 5.

Larsen, Alma H.: *See*—
Woodruff, Harold B., and Larsen.

Latta, John F., assignee: *See*—
MacKinnon, Horatio W.

Lauve, Louis L.: *See*—
Enkur, Edward M., Pahl, and Lauve.

Lawrenz, Charles E.: *See*—
Morgan, Philip F., and Lawrenz.

Leader Electric Manufacturing Corporation, assignee: *See*—
Zuley, Edward A.

Leavengood, Charles B., Enid, Okla. Posthole digger. 2,533,123. Dec 5.

Leon, Aaron: *See*—
Taren, Jack, and Leon.

Leonard, John E., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Slide changer for projectors. 2,532,775, Dec. 5.

Lesesne, Sherman D., Iquique, Chile, assignor to Compania Salitrera de Tarapaca y Antofagasta. Solar evaporation of brines. 2,532,924, Dec. 5.

Letson, William A., assignor of one-half to J. G. Sheldon, Kansas City, Mo. Animal guard. 2,533,168, Dec. 8.

Levin, Robert H., A. V. McIntosh, Jr., and G. B. Spero, assignors to The Upjohn Company, Kalamazoo, Mich. Preparation of steroid aldehydes. 2,533,124, Dec. 5.

Levinson, Sidney O., and F. Oppenheimer, Chicago, Ill., assignors to Michael Reese Research Foundation. Apparatus for desiccation by ice sublimation. 2,533,125, Dec. 5.

Levy, Sidney E., Brooklyn, assignor to University Loudspeakers, Inc., New York, N. Y. Magnet structure for loud speakers. 2,532,413, Dec. 5.

Levy, Sidney E., Brooklyn, assignor to University Loudspeakers, Inc., New York, N. Y. Permanent magnet electrodynamic loud-speaker structure adapted for ready assembly. 2,532,414, Dec. 5.

Lewis, Benjamin F., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gas-filled tube circuit. 2,532,728, Dec. 5.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Anderson, Thomas F.
Hatcher, David B.
Hoppens, Harold A.
Simons, John K.

Licktelg, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Night latch. 2,532,630, Dec. 5.

Licktelg, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Night latch. 2,533,023, Dec. 5.

Lientz, Laclede, Kansas City, Mo. Mixing device for gas burners. 2,532,671, Dec. 5.

Lindblad, Karl R., Sundsbruk, assignor to Svenska Cellulosa Aktiebolaget, Stockholm, Sweden. Rotary screening drum. 2,532,415, Dec. 5.

Linde Air Products Company, The, assignee: *See*—
Bailey, Donald L., and Wagner.
Kennedy, Harry E.
Rathje, Edward, Jr.
Strother, Cornelile O., and Wagner.

Lindvall, Frederick C.: *See*—
Richards, Lorenzo A., and Lindvall.

Linser, Georg, Innsbruck, Austria. Diapositive frame. 2,532,776, Dec. 5.

Liquidometer Corporation, The, assignee: *See*—
Campani, Louis M.

Lissiansky, Alexander: *See*—
Rabkin, William, Lissiansky, and Sebeatyen.

Lockheed Aircraft Corporation, assignee: *See*—
Beman, Ward W.
Bloomfield, John J.
Kellam, Arthur M.

Loeb, Lawrence A., New Haven, Conn. Dishwashing machine having an extensible rotary brush for receptacles. 2,532,925, Dec. 5.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Party line metering, including selection of the meter prior to signaling the operator. 2,532,926, Dec. 5.

Looney, William E., Detroit, Mich. Power transmission device. 2,533,126, Dec. 5.

Loria, Walter J., and J. Suhre, New York, N. Y. Timepiece calibration recording apparatus. 2,532,631, Dec. 5.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to Carnegie-Illinois Steel Corporation. Continuous strand helical conveying and heating apparatus. 2,532,562, Dec. 5.

Lortie, Marthe: *See*—
Warnecke, Robert, and Lortie.

Losey, Clifford V.: *See*—
Robinson, James, and Losey.

Love, Louis L., Philadelphia, Pa. Combination comb and hairbrush. 2,532,505, Dec. 5.

Lumnus Company, The, assignee: *See*—
Brunjes, Austin S., and Bogart.

Lundgren, William: *See*—
Kulczycki, Karol, and Lundgren.

Lundstrom, Oscar, Hempstead, N. Y., assignor to The Sperry Corporation. Ultra high frequency coupler. 2,532,317, Dec. 5.

Lustrik, Frank, Cleveland, Ohio. Gauging instrument for setting cutting tools. 2,533,024, Dec. 5.

Lyeth, John M., Richardson, New York, N. Y. Slide fastener slider. 2,532,367, Dec. 5.

MacArthur, Melvin D., assignor to Hydril Corporation, Los Angeles, Calif. Tubing and tubing joint. 2,532,632, Dec. 5.

MacFarland, Charles H., assignor to The Scott & Fetzer Company, Cleveland, Ohio. Rotary vacuum cleaner brush. 2,533,169, Dec. 5.

MacFarlane, Grace M., Rockford, Ill. Skirt marker. 2,533,127, Dec. 5.

Mackey, William H., Teaneck, and A. L. Wedebrock, Westwood, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Blowing machine. 2,532,318, Dec. 5.

MacKinnon, Horatio W., assignor to J. F. Latta, Vancouver, British Columbia, Canada. Machine for filling cans with paste having a plunger with paste suction relief blades. 2,532,777, Dec. 5.

MacLean, James M., Detroit, Mich. Enclosed resilient wheel. 2,532,319, Dec. 5.

MacSorley, Olin L., Collingswood, N. J., assignor to Radio Corporation of America. Oscillation generator. 2,532,455, Dec. 5.

Magee Carpet Company, The, assignee: *See*—
Groat, Francis P.

Magnuson, Roy M., Campbell, assignor of one-third to G. H. Ballantyne, San Jose, Calif., and one-third to C. L. Kirk, Bozeman, Mont. Quick-freeze apparatus. 2,532,633, Dec. 5.

Maillat, Gustave E., Seine-et-Oise, assignor to Electricite de France, Paris, France. Standard electric meter provided with portable stroboscopic device. 2,532,416, Dec. 5.

Mallard, Robert G., New York, N. Y., and E. H. Ashton, Jersey City, assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Loom frame. 2,533,128, Dec. 5.

Mallet, Fred J., New York, N. Y. Cigarette package holder. 2,532,927, Dec. 5.

Malmqvist, Johan D., Boliden, and G. V. A. Gustafsson, Hoglandstorget, and S. S. T. Werner, Akeslund, assignors to Bolidens Gruvaktiebolag, Skelleftehamn, Sweden. Voltage phase control circuit. 2,532,368, Dec. 5.

Manaseri, Charles, Sherrill, assignor to Oneida Ltd., Oneida, N. Y. Apparatus for moving articles. 2,532,849 Dec. 5.

Mangrum Holbrook and Elkus, assignee: *See*—
Pledger, William A.

Mansfield, George H., Akron, Ohio. Hack saw or the like. 2,532,506, Dec. 5.

Markle, Glenn R., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Strip guiding apparatus. 2,532,563, Dec. 5.

Marshall, Earl C., assignee: *See*—
Westfall, Robert W.

Martin, Charles C., Cleveland Heights, assignor to The Cleveland Chain and Manufacturing Company, Garfield Heights, Ohio. Apparatus for applying tension and/or pressure to material. 2,533,025, Dec. 5.

Martin, Frank J., Franklin, La. Ditchbank disk plow. 2,533,129, Dec. 5.

Marty, Frank A., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Rivet setting arm. 2,532,928, Dec. 5.

Mastriani, Elvin A., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Shipper mechanism. 2,533,130, Dec. 5.

Matheson, George L., Union, N. J., assignor to Standard Oil Development Company. Contacting solids and gases. 2,533,026, Dec. 5.

Mathews, Bernard C.: *See*—
Anderson, Arthur A., and Mathews.

Mathis, William R., Tampa, Fla. Method of constructing walls having horizontal and vertical voids. 2,533,131, Dec. 5.

Maussnest, Frederick K., assignor to Hedwig Maust, Queens Village, N. Y. Blanking and drawing press. 2,532,320, Dec. 5.

Maust, Ernest J., and C. A. Hollingsworth, Lakeland, Fla., assignors to Coronet Phosphate Company, New York, N. Y. Forming porous nodules. 2,533,027, Dec. 5.

Maust, Hedwig, assignee: *See*—
Maussnest, Frederick K.

Max, Fritz, Staten Island, N. Y., and D. I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Vat dyes of the anthrimide carbazole thioxanthone type. 2,533,170, Dec. 5.

Max, Fritz, Staten Island, N. Y., and W. Schmidt-Nickels, Little York, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Preparation of benzothiophene anthraquinones. 2,533,171 Dec. 5.

Max, Fritz, Easton, Pa., and D. I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. 2,3-derivatives of 1,4-dihaloanthraquinones. 2,533,193, Dec. 5.

May, Otto H., Schwabisch Gmund, Germany. Self-breaking toggle. 2,532,850, Dec. 5.

McBee, Earl T., La Fayette, Ind., and R. M. Robb, Wilmington, Del., assignors to Purdue Research Foundation, West Lafayette, Ind. Vapor phase fluorination. 2,533,132, Dec. 5.

McBee, Earl T., La Fayette, Ind., and R. M. Robb, Wilmington, Del., assignors to Purdue Research Foundation, West Lafayette, Ind. Replacement of hydrogen with fluorine in hydrogen- and halogen-containing organic compounds using lead tetrafluoride. 2,533,133, Dec. 5.

McBee, Earl T., and J. S. Newcomer, assignors to Purdue Research Foundation, West Lafayette, Ind. 5-bromo-2,3,4,5-tetrachloropentadienoic acid. 2,533,134, Dec. 5.

McBrayer, Marvin L., assignor to Moisture Register Company, Alhambra, Calif. Pressure sensitive moisture test instrument. 2,532,929, Dec. 5.

McConaghy, James W., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pumping system. 2,533,028, Dec. 5.
McCord Corporation, assignee: *See*—
Hayward, James R.
McCurtain, Frank, Los Angeles, assignor to W. R. McKenzie, Montebello, Calif. Electric braking system. 2,532,321, Dec. 5.
McFarlin, Charles J., near Sheffield, Ala., assignor to Tennessee Valley Authority. Phosphorus combustion furnace. 2,532,322, Dec. 5.
McGraw Electric Company, assignee: *See*—
Hensler, Elmer G.
Nelson, Rolland D.
McIntosh, A. Vern, Jr.: *See*—
Levin, Robert H., McIntosh, and Spero.
McKay, Arthur W., Sacramento, Calif. Reshaping device for shoes. 2,532,564, Dec. 5.
McKenzie, Donald C., Minneapolis, Minn. Article or package carrier. 2,533,135, Dec. 5.
McKenzie, Wendell R., assignee: *See*—
McCurtain, Frank.
McKinley, Clyde: *See*—
Copes, Joseph P., and McKinley.
McKinley, Clyde, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Hydrolysis of vinyl ethers. 2,533,172, Dec. 5.
McNall, Fredlee M., Olean, N. Y., assignor to Clark Bros. Co., Inc. Limited oxidation of saturated aliphatic hydrocarbons with formation of aldehydic compounds. 2,532,930, Dec. 5.
McNish, Alvin G., Chevy Chase, Md., and B. Tuckerman, Yellow Springs, Ohio, assignors to the United States of America as represented by the Secretary of War. Odograph. 2,533,029, Dec. 5.
Meco, Inc., assignee: *See*—
Monnett, Phillip.
Meidema, Gerben, assignee: *See*—
Havlick, Jesse L.
Melegan, William E., Cleveland, and A. W. Eidman, South Euclid, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Multiple disk type clutch. 2,533,194, Dec. 5.
Melman, Israel J., Jamaica, N. Y., assignor to Radio Corporation of America. Wide band impedance matching network. 2,533,030, Dec. 5.
Menkhaus, Walter P., Philadelphia, Pa. Electronic interrupter. 2,532,508, Dec. 5.
Merck & Co., Inc., assignee: *See*—
Brink, Norman G., and Folkers.
Howe, Eugene E.
Woodruff, Harold B., and Larsen.
Merritt, Glenn W., Bowerston, Ohio. Airplane hangar door construction. 2,532,456, Dec. 5.
Metcalf, Hugh E.: *See*—
Brown, Robinson, and Metcalf.
Metropolitan-Vickers Electrical Company, Limited, assignee: *See*—
Polson, Reginald A., and Dannatt.
Metzger, Lewis W., Doylestown, Pa., assignor to The Baldwin Locomotive Works. Fuel oil leakage detector for Diesel engines. 2,533,195, Dec. 5.
Meunier, Marcel, Cuesmes, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium. Feeler for elastic waves. 2,532,507, Dec. 5.
Meunier, Odon G. J., Fayt-lez-Manage, Belgium. Strickling machine. 2,532,634, Dec. 5.
Meyer-Balzer Fuel Unit, Incorporated, assignee: *See*—
Meyer, David.
Meyer, David, and Balzer.
Meyer, David, Canton, assignor to Meyer-Balzer Fuel Unit, Incorporated, Dover, Ohio. Liquid fuel atomizer. 2,532,861, Dec. 5.
Meyer, David, Canton, and M. G. Balzer, assignors to Meyer-Balzer Fuel Unit, Incorporated, Dover, Ohio. Refractory liner material. 2,532,592, Dec. 5.
Meyer, John F., Indianapolis, Ind. Wick type oil burner. 2,532,570, Dec. 5.
Meyers, Donald N.: *See*—
Daland, Elliot, and Meyers.
Michael, Stephen L., Tacoma, and V. E. Anderson, Pacific City, assignors to The Wheeler, Osgood Company, Tacoma, Wash. Veneer clippers. 2,532,672, Dec. 5.
Mikula, Adam: *See*—
Flugel, Walter, Hemmi, Hofer, and Mikula.
Miller, Charles A., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Absorption refrigerating system of the uniform pressure type. 2,533,031, Dec. 5.
Miller, George A., Jr., Weirsdale, Fla. Bullet. 2,532,323, Dec. 5.
Miller, Harold G., Dover, Ohio. Combined Christmas tree holder and tree watering pan. 2,532,931, Dec. 5.
Miller, Isaac C., Denver, Colo. Explosion operated pump. 2,532,635, Dec. 5.
Miller, Ralph, Munice, Ind. Lather-producing device. 2,532,565, Dec. 5.
Milligan, Harry B., Waveland, Ind. Star watch. 2,532,324, Dec. 5.
Millington, John W.: *See*—
Henson, Robert L., Jr., and Millington.
Millman, Jacob, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Photoelectric gate control for pulse-echo systems. 2,532,566, Dec. 5.
Millstein, Jacob H., Jeannette, Pa. Candy containing novelty. 2,532,729, Dec. 5.
Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Haseltine, Stacy B.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Rosche, John O.
Wild, Rudolf F.
Minnich, Gilbert A., Elyria, Ohio. Socket wrench cabinet. 2,532,636, Dec. 5.
Mintzes, Louis, Island Park, N. Y. Shopping bag. 2,532,778, Dec. 5.
Mitchell, Harry A., Sycamore, assignor of one-half to E. W. Dahlgren, Rockford, Ill. Folding leg table with actuator mechanism. 2,533,173, Dec. 5.
Moehl, Reno W.: *See*—
Webb, Glenn M., and Moehl.
Moisture Register Company, assignee: *See*—
McBrayer, Marvin L.
Monark Silver King, Inc., assignee: *See*—
Henry, Harry H.
Monnett, Phillip, Toledo, assignor to Meco, Inc., Napoleon, Ohio. Perforating and closing device. 2,532,509, Dec. 5.
Monsanto Chemical Company, assignee: *See*—
Hardy, Edgar E.
Montcalm, Surrius R., assignor, by mesne assignments, to Ferris Instrument Laboratories, Boonton, N. J. Electrical alternating current generation. 2,533,032, Dec. 5.
Montclair Research Corporation, assignee: *See*—
Joy, Homer V.
Moore, Maurice L., Nether Providence Township, Delaware County, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. N-4-succinylsulfanilamidodiazones. 2,533,033, Dec. 5.
Morgan, Philip F., Elmhurst, and C. E. Lawrenz, Chicago, Ill., assignors to Chicago Pump Company. Method and apparatus for removing grit. 2,532,457, Dec. 5.
Morganson, Peter H.: *See*—
Poole, Arthur B., and Morganson.
Morin, Louis H., Bronx, N. Y. Automatic lock slider. 2,533,034, Dec. 5.
Morin, Louis H., Bronx, N. Y. Pneumatic safety stop for die closures. 2,533,035, Dec. 5.
Morrison, Peter R.: *See*—
Ferry, John D., and Morrison.
Morse, Park L., Emporia, Kans. Rhythm cycle calculator. 2,532,819, Dec. 5.
Moscowitz, Irene, Los Angeles, Calif. Massage mitten. 2,533,036, Dec. 5.
Mosebach Electric & Supply Company, assignee: *See*—
Kane, Stanley E.
Mossett, James W., New York, N. Y. Phonograph record file. 2,532,673, Dec. 5.
Mott, Chester, Evanston, A. F. Chouinard, and M. A. Tylutki, assignors to National Cylinder Gas Company, Chicago, Ill. Descaling burner. 2,532,567, Dec. 5.
Mountain Valve Company, Inc., assignee: *See*—
Evans, John.
Mozert, Zoe A., assignee: *See*—
Pelt, James D.
Muldoon, William J., Garden City, N. Y., assignor to The Wheeler Insulated Wire Company, Incorporated, Bridgeport, Conn. Vibratory reed signaling device. 2,533,136, Dec. 5.
Murray Corporation of America, The, assignee: *See*—
Haberstump, Alfred H.
Murray & Tregurtha, Inc., assignee: *See*—
Wanzer, Arthur W.
Myers, William M., Fresno, Calif. Valve unit. 2,532,568, Dec. 5.
National Brass Company, assignee: *See*—
Licktelg, Albert F.
National Cash Register Company, The, assignee: *See*—
Sherer, Chester C., Koontz, and Hoefler.
National Cylinder Gas Company, assignee: *See*—
Girard, Dean C., and Roach.
Mott, Chester, Chouinard, and Tylutki.
Naumann, Herbert O., Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y. Apparatus for treating yarn. 2,532,325, Dec. 5.
Naumann, Herbert O., Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y. Fluid circulating thread guide roller. 2,532,326, Dec. 5.
Nava, Mario, Macclesfield, England. Apparatus for winding yarns on cards. 2,533,037, Dec. 5.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Backus, Walter M., Jr., and Jarvis.
Higgs, Paul M.
Richards, Lorenzo A., and Lindvall.
Rockwell, Gaynor O.
Neale, Dory J., Topeka, Kans. Cable terminal. 2,533,137, Dec. 5.
Neff, Donald D.: *See*—
Bricker, Carl E., and Neff.
Negovan, Albert, Chicago, Ill., assignor to Baker-Roos, Inc., Indianapolis, Ind. Shore. 2,533,174, Dec. 5.
Neild, William G., Warren Point, assignor to Bendix Aviation Corporation, Teterboro, N. J. Carbon pile regulator. 2,533,038, Dec. 5.
Neiswander, Wilbur G., Lima, Ohio; now by change of name W. G. Neuenschwander. Baby bib. 2,532,932, Dec. 5.
Nelson, Herman, Corporation, The, assignee: *See*—
Hubbard, Arthur F.

Nelsen, Magnus O., Los Angeles, Calif. Clothespin. 2,532,674, Dec. 5.
Nelson, Rolland D., Hales Corners, Wis., assignor to McGraw Electric Company. Thermally responsive indicator. 2,532,510, Dec. 5.
Neuenschwander, Wilbur G.: *See*—
Neiswander, Wilbur G.
New, Harry E., Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Staple fiber cutter. 2,532,458, Dec. 5.
Newcomer, Jack S.: *See*—
McBee, Earl T., and Newcomer.
Newhouse, Russell C.: *See*—
Corbin, Joseph E., and Newhouse.
Newkirk, Clarence E., Lynnwood, Calif. Hitch. 2,532,637, Dec. 5.
Newton, Alwin B., Dayton, Ohio, assignor to Chrysler Corporation, Highland Park, Mich. Air controlling grille. 2,533,175, Dec. 5.
Newton, Amos S., Ames, Iowa, assignor to the United States of America as represented by the United States Atomic Energy Commission. Purification of hydrogen. 2,533,138, Dec. 5.
Niccoli, Albert L., Phoenix, Ariz. Sandal type shower shoe with adjustable foot-retaining means. 2,532,638, Dec. 5.
Noble & Wood Machine Company, The, assignee: *See*—
Roberson, Cyrus E.
Nordisk Insulinlaboratorium, assignee: *See*—
Hagedorn, Hans C.
Norman, Robert S., Killeen, Tex. Photoelectric exposure meter. 2,532,417, Dec. 5.
North American Rayon Corporation, assignee: *See*—
Naumann, Herbert O.
Notley, Oscar L.: *See*—
Golden, Carl E., and Notley.
Nuffer, Joseph H., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Dust collecting bag for suction cleaners. 2,532,933, Dec. 5.
Nu-Plast Binding Co., Inc., assignee: *See*—
Freundlich, Albert.
Oaks, Vern G., Superior, Wis. Welder's ear guard. 2,532,852, Dec. 5.
Oelkers, Alfred H., New Braunfels, Tex., assignor to American Steel Foundries, Chicago, Ill. Wheel. 2,533,176, Dec. 5.
Ogden, Floyd H., Arlington, assignor to Dennison Manufacturing Company, Framingham, Mass. Strip ticket and making and applying the same. 2,532,459, Dec. 5.
Oil Center Tool Company, assignee: *See*—
Eckel, John E., and Jones.
Oil Center Tool Co., assignee: *See*—
Jones, Marvin R.
Oilgear Company, The, assignee: *See*—
Ellis, Charles G.
Okolicsanyi, Ferenc, London, England. Television. 2,532,511, Dec. 5.
Okonite-Callender Cable Company, Incorporated, The, assignee: *See*—
Bennett, Charles E.
Okonite Company, The, assignee: *See*—
Lapsley, Rhea P.
Oneida Ltd., assignee: *See*—
Manaserl, Charles.
Oppenheimer, Franz: *See*—
Levinson, Sidney O., and Oppenheimer.
Orvis, Charles F., Co. Inc., assignee: *See*—
Jordan, Wesley D.
Overton, Carl E., Chicago, Ill. Arbor. 2,532,934, Dec. 5.
Owens-Illinois Glass Company, assignee: *See*—
Bridges, Donald A.
Pace, Henry A., assignor to Wingfoot Corporation, Akron, Ohio. Producing pigmented resins. 2,533,196, Dec. 5.
Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Hydraulically operated anchor for tubing or the like. 2,532,418, Dec. 5.
Page Oil Tools Inc., assignee: *See*—
Page, John S.
Paget, Peter S., Mangotsfield, near Bristol, England. Appliance for grinding the contact points of contact breakers. 2,532,512, Dec. 5.
Pahl, Leo F.: *See*—
Enkur, Edward M., Pahl, and Lauve.
Parker, Henry T., assignee: *See*—
Broersma, Robert J.
Parker Pen Company, The, assignee: *See*—
Baker, Marlin S., and Randolph.
Parks, Walter J., Aurora, Ohio. Bearing. 2,532,327, Dec. 5.
Parks, Walter J., Aurora, Ohio. Mounting structure for bearings. 2,532,779, Dec. 5.
Parry, William N., New Haven, Conn. Vanity back view chair. 2,532,853, Dec. 5.
Patrick, Joseph C., St. Petersburg, Fla., and F. O. Davis, assignors to Thiokol Corporation, Trenton, N. J. Synthetic waxlike materials. 2,532,369, Dec. 5.
Patterson, Matthew C., Grosse Pointe Park, assignor to Chrysler Corporation, Highland Park, Mich. Body trailer and body hauling apparatus. 2,532,935, Dec. 5.
Payne, Thomas H., Los Angeles, Calif. Food cooker. 2,532,639, Dec. 5.
Payzant, Henry H., Seattle, Wash., assignor, by mesne assignments, to Timber Structures, Inc., Portland, Oreg. Scarf joint gluing press. 2,532,419, Dec. 5.
Peitzman, Abraham, Philadelphia, Pa., and R. M. Peitzman, Trenton, N. J. Garment. 2,533,039, Dec. 5.
Peitzman, Ralph M.: *See*—
Peitzman, Abraham and R. M.
Pelt, James D., Beverly Hills, assignor to Z. A. Mozert, West Hollywood, Calif. Smoking pipe. 2,532,820, Dec. 5.
Penker, Ernest, Flushing, and M. Bulin, Jackson Heights, assignors to Etched Products Corporation, Long Island City, N. Y. Apparatus for coating plates. 2,532,730, Dec. 5.
Penning, Jackson W., Roseville, Mich. Beverage cooler. 2,532,328, Dec. 5.
Pennzoil Company, The, assignee: *See*—
Johnson, Evert F.
Pepinsky, Raymond: *See*—
Higinbotham, William A., and Pepinsky.
Perkin-Elmer Corporation, The, assignee: *See*—
Baker, James G.
Perrill, Harlan K., San Diego, Calif. Finger nail cutter. 2,532,370, Dec. 5.
Peterhans, Walter: *See*—
Van der Rohe, Ludwig, and Peterhans.
Peters, Leo, Evanston, Ill. Oleomargarine package. 2,532,513, Dec. 5.
Petersen, Ludvig, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Torsional vibration pickup. 2,532,781, Dec. 5.
Petersen, Werner H., San Diego, Calif. Feathering reversible propeller. 2,532,371, Dec. 5.
Peterson, Dana, Newton, Mass. Valved paste ejector. 2,532,782, Dec. 5.
Peterson, Joel D., Ridgewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Altitude corrected landing system for aircraft. 2,532,936, Dec. 5.
Petrak, Lawrence B., Ellwood City, Pa. Limit switch with pendulum arrester. 2,533,040, Dec. 5.
Pettengill, Gilbert S., Ridley Park, Pa. Paintbrush. 2,532,780, Dec. 5.
Pfeiffer, Wilbur H., assignor to General Motors Corporation, Dayton, Ohio. Enameling. 2,532,640, Dec. 5.
Phelps, Ross W., Orillia, Ontario, Canada. Wagon axle and reach connection construction. 2,532,675, Dec. 5.
Philco Corporation, assignee: *See*—
Spiegel, Herman B.
Phillips, John E., Jr., Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. High-frequency apparatus for drying materials electrostatically. 2,532,460, Dec. 5.
Phillips Petroleum Company, assignee: *See*—
Church, J. Frank.
Dutcher, Harris A.
Hogan, John P.
Phinney, John A., assignor to Stanolind Oil and Gas Company, Tulsaa, Okla. Method and apparatus for making hydrogen-carbon monoxide mixtures. 2,532,514, Dec. 5.
Phipps, Orville, near Denver, Colo. Self-piloted rotary drill bit. 2,532,783, Dec. 5.
Piasecki Helicopter Corporation, assignee: *See*—
Daland, Elliot, and Meyers.
Pickands Mather & Co., assignee: *See*—
Royster, Percy H.
Pierce, John B., Foundation, assignee: *See*—
Cataldo, John B., and Vroom.
Pierce, Paul, Jr., La Grange, assignor to Pierce Wrapping Machine Company, Chicago, Ill. Ejector for wrapping machines. 2,533,177, Dec. 6.
Pierce Wrapping Machine Company, assignee: *See*—
Pierce, Paul, Jr.
Pines, Herman, Chicago, and J. A. Vesely, Evanston, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic condensation of furans with compounds capable of yielding hydrocarbon radicals. 2,532,515, Dec. 5.
Pinkvoss, Berthold P., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimmer mechanism for sewing machines. 2,533,197, Dec. 5.
Pittsburgh Plate Glass Company, assignee: *See*—
Ellerman, George E.
Gage, Frederick W.
Pledger, William A., assignor to Mangrum Holbrook and Elkus, San Francisco, Calif. Ventilator device for kitchen ranges. 2,532,420, Dec. 5.
Plummer, Fred L., assignor to Hammond Iron Works, Warren, Pa. Fluid storage tank. 2,532,854, Dec. 5.
Plummer, Fred L., assignor to Hammond Iron Works, Warren, Pa. Internal bracing for liquid storage tanks. 2,533,041, Dec. 5.
Polk Development Company (not incorporated), The, assignee: *See*—
Polk, Ralph, Sr., and Ralph, Jr.
Polk, Ralph, Jr.: *See*—
Polk, Ralph, Sr., and Ralph, Jr.
Polk, Ralph, Sr., and R. Polk, Jr., assignors to The Polk Development Company (not incorporated), Tampa, Fla. Citrus fruit juicer. 2,533,139, Dec. 5.
Polson, Reginald A., Flixton, Manchester, and C. Dannatt, Hale, assignors to Metropolitan-Vickers Electrical Company Limited, London, England. Power-driven aligning mechanism control system dependent upon a time derivative of the displacement. 2,533,042, Dec. 5.

Poole, Arthur B., Harwinton, and P. H. Morganson, assignors to The William L. Gilbert Clock Corporation, Winsted, Conn. Automatic electric toaster and the like. 2,532,569, Dec. 5.
Pooch, August, Pittsburgh, Pa. Replaceable holder for caster sockets. 2,532,937, Dec. 5.
Potter, Ralph K., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Visualization of complex waves. 2,532,731, Dec. 5.
Prager, Edward H., Baltimore, Md. Laundry drying rack. 2,532,938, Dec. 5.
Premo, Owen D., Muskegon Heights, Mich. Angle layout and checking instrument. 2,532,329, Dec. 5.
Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Backlash eliminating mechanism. 2,533,043, Dec. 5.
Pringle, John W. S., Cambridge, England. Radio beacon. 2,532,939, Dec. 5.
Protex Company, assignee: *See*—
Schwartzman, Daniel B., and Jindella.
Puchner, Irving A., assignee: *See*—
Elliott, Gordon R.
Purdue Research Foundation, assignee: *See*—
McBee, Earl T., and Newcomer.
McBee, Earl T., and Robb.
Pyrene Development Corporation, assignee: *See*—
Bedford, Howard E., and Hall.
Quad-City Engineering Co., assignee: *See*—
Johnson, Bert H.
Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Liquid seal level gauge. 2,532,940, Dec. 5.
Rabjohn, Norman: *See*—
Flory, Paul J., and Rabjohn.
Rabkin, William, A. Lissiansky, and A. Sebestyen, New York, assignors to International Mutoscope Corporation, Long Island City, N. Y. Automatic picture-taking and finishing apparatus. 2,532,855, Dec. 5.
Radio Corporation of America, assignee: *See*—
Carter, Philip S.
Christenson, Donald L.
Coate, Ralph S.
Eberhard, Everett.
Houghton, William D.
MacSorley, Olin L.
Melman, Israel J.
Sziklai, George C.
Weimer, Paul K.
Woodward, Oakley M., Jr.
Young, Charles J.
Rado, Leopold, London, England. Provide plastic articles with printing. 2,532,941, Dec. 5.
Radtke, James G., Rochester, N. Y. Edge finder. 2,533,198, Dec. 5.
Ramsdell, Thomas S., Great Barrington, Mass. Evener for cotton pickers. 2,532,330, Dec. 5.
Randall, David I.: *See*—
Max, Fritz, and Randall.
Randall, David I., and E. E. Renfrew, Jr., Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. α-(Phthalimidomethyl-anilino)-anthraquinones and preparing the same. 2,533,178, Dec. 5.
Randolph, Robert W.: *See*—
Baker, Marlin S., and Randolph.
Rapp, John A. D. Y., assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Cable distribution system. 2,533,044, Dec. 5.
Rathje, Edward, Jr., Cranford, N. J., assignor to The Linde Air Products Company. Line tracker control. 2,532,421, Dec. 5.
Ray, James L., Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid feeding system. 2,532,856, Dec. 5.
Redinger, Joseph M., Johnston, R. I., assignor to Thurston Manufacturing Company. Tool and holder therefor. 2,533,179, Dec. 5.
Reese, Michael, Research Foundation, assignee: *See*—
Levinson, Sidney O., and Openheimer.
Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Combination grate and burner bowl structure for gas cookstoves. 2,532,461, Dec. 5.
Reeves, Reuben G., Camden, N. J. Toy roundabout. 2,532,571, Dec. 5.
Reeves, Reuben G., Camden, N. J. Device for attracting attention to billboards. 2,532,572, Dec. 5.
Reid, John D., Mount Healthy, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation. Superheterodyne radio receiver. 2,533,045, Dec. 5.
Reimer, John F., assignor to Invincible Metal Furniture Company, Manitowoc, Wis. Filing cabinet. 2,532,942, Dec. 5.
Reitzes, Herbert L., Philadelphia, Pa., assignor to Globe Products Heat Seal Corporation, Los Angeles, Calif. Bagmaking machine. 2,532,784, Dec. 5.
Renfrew, Edgar E., Jr.: *See*—
Randall, David I., and Renfrew.
Reynolds, Alger P.: *See*—
Toland, William C., Reynolds, and Hamilton.
Reyrolle, A., & Company Limited, assignee: *See*—
Amer, Donald F.
Rhodes, John W., assignor to J. D. Adams Manufacturing Company, Indianapolis, Ind. Engine control mechanism. 2,533,180, Dec. 5.
Rhyne, Jeff S., Detroit, Mich., assignor to the United States of America as represented by the Secretary of War. Gyrostabilizer. 2,532,333, Dec. 5.
Rhyne, Jeff S., Marianna, Fla., and R. E. Holmes, Milton, Mass. Gyrostabilizer. 2,532,334, Dec. 5.
Ricciardi, Matthew C., assignor to The Canister Company, Inc., Phillipsburg, N. J. Container with window. 2,532,857, Dec. 5.
Richards, Lorenzo A., Riverside, and F. C. Lindvall, Altadena, Calif., assignors to the United States of America as represented by the Secretary of the Navy. Rocket launcher. 2,532,643, Dec. 5.
Richardson, Walter B., Bridgton, Maine. Hydraulic ram and sealing rings. 2,532,422, Dec. 5.
Richter, John E., San Jose, assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif. Hydraulic actuated steering for motor-powered vehicles. 2,532,785, Dec. 5.
Richter, John E., San Jose, assignor to Wooldridge Manufacturing Company, Sunnyvale, Calif. Hydraulic actuated steering for motor-powered vehicles. 2,532,786, Dec. 5.
Riddell, Grace E.: *See*—
Brenner, Abner, and Riddell.
Riederer, Jacob, Stowe, Vt. Constant leverage engine. 2,533,046, Dec. 5.
Riemer, Walter F., assignor to The E. Ingraham Company, Bristol, Conn. Handset unit for timepieces. 2,532,943, Dec. 5.
Riggen, Theodore K., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Electric clock. 2,532,944, Dec. 5.
Rigney, Leslie, Detroit, Mich. Jewel-setting tool. 2,532,423, Dec. 5.
Rinia, Herre, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cooling device for electric discharge tubes. 2,532,858, Dec. 5.
Roach, Frank T.: *See*—
Girard, Dean C., and Roach.
Robb, Richard M.: *See*—
McBee, Earl T., and Robb.
Roberson, Cyrus E., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y. Hydraulic seal for pulp refining mills. 2,533,199, Dec. 5.
Robertson Paper Box Company, Incorporated, assignee: *See*—
Tyrseck, Walter J.
Robinson, Charles F., Pasadena, Calif. Sorting apparatus. 2,532,644, Dec. 5.
Robinson, James, Huntington Woods, and C. V. Losey, Ferndale, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,533,047, Dec. 5.
Robinson, Maurice C., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Control for motor vehicle transmissions. 2,532,945, Dec. 5.
Rochester Institute of Technology, assignee: *See*—
Bennett, Charles W., and Alexander.
Rockwell, Edward A., Shaker Heights, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Compact power unit. 2,532,462, Dec. 5.
Rockwell, Gaynor O., Houston, Tex., assignor to the United States of America as represented by the Secretary of the Navy. Hydrostatic fuse. 2,532,645, Dec. 5.
Rodgers, Howard C., Birmingham, Ala., assignor to Tennessee Coal, Iron and Railroad Company. Hot dip tinning. 2,533,048, Dec. 5.
Rodrigues, Antonio R., Oak Park, Ill., assignor to Zenith Radio Corporation. Barium titanate-stannic oxide ceramic. 2,533,140, Dec. 5.
Rogers, Francis H., Kenley, England. Sampling apparatus, more particularly for use in vessels under pressure. 2,532,946, Dec. 5.
Rozoff, Julian, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc. Partially insulated electrical terminal. 2,533,200, Dec. 5.
Rohm & Haas Company, assignee: *See*—
Croxall, Willard J., and Preimiller.
Rolls-Royce Limited, assignee: *See*—
Tarlton, Frank H.
Romilly, Llewellyn E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of dicyanobutene to adiponitrile. 2,532,312, Dec. 5.
Romyns, Charles J., assignor of one-half to C. J. Fletcher, Franklin, N. J. Bottle attachment for measuring doses by tipping. 2,532,787, Dec. 5.
Roovers, Wilhelmus A., C. F. Veenemans, and O. L. van Steenis, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus for sealing-off electric discharge tubes. 2,532,860, Dec. 5.
Rosche, John O., Cedar Rapids, Iowa, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 2,532,859, Dec. 5.
Rose, Ernest, U. S. Navy. Punching circuit. 2,532,331, Dec. 5.
Rose, Eustace L., Charleston, assignor to Gravely Motor Plow & Cultivator Company, Dunbar, W. Va. Rotary plow. 2,532,424, Dec. 5.

Rose, Leslie: *See*—
Givens, John H., Wale, and Rose.
Rosenfeld, Lawrence, New York, N. Y. Electric lamp. 2,532,821, Dec. 5.
Rosenfeld, Menachem Y., London, England. Vanity box. 2,533,049, Dec. 5.
Rosinski, Theodore F.: *See*—
Lajoie, Louis J., and Rosinski.
Roswell, Charles N., Chicago, Ill. Liquid heating system. 2,533,141, Dec. 5.
Rowand, Will H., Madison, assignor to The Babcock & Wilcox Company, Rocklelgh, N. J. Separator. 2,532,332, Dec. 5.
Royster, Percy H., Raleigh, N. C., assignor to Pickands Mather & Co., Cleveland, Ohio. Heat-treating solids. 2,532,335, Dec. 5.
Royster, Percy H., Raleigh, N. C., assignor to Pickands Mather & Co., Cleveland, Ohio. Heat-treating solids. 2,533,142, Dec. 5.
Ruetz, Josef, Biel, Switzerland. Container with cap locking device. 2,532,641, Dec. 5.
Rufolo, Anthony, New York, N. Y. Dielectric test apparatus. 2,532,336, Dec. 5.
Runyen, David, Grand Rapids, Mich. Trailer step. 2,533,050, Dec. 5.
Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Baler and venting means. 2,532,947, Dec. 5.
Sabatini, Ralph, Rego Park, N. Y. Fixture for grinding cutters. 2,532,337, Dec. 5.
Sackner Products, Inc., assignee: *See*—
Kitchen, Harry D.
Saco-Lowell Shops, assignee: *See*—
Boyden, Frank D.
St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Controlling yarn. 2,532,467, Dec. 5.
Salisbury, Leroy F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing vinylthiazoles. 2,532,573, Dec. 5.
Samer, Rudolf W., Elizabeth, assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J. Temperature calibrated metal vapor discharge lamp. 2,532,463, Dec. 5.
Sampsel Time Control, Inc., assignee: *See*—
White, Edgar G.
Sanden, Howard, Luverne, N. Dak. Detachable tractor cab. 2,532,948, Dec. 5.
Sanders, Laurence C., New York, N. Y. Safety razor with magnetic guard. 2,532,372, Dec. 5.
Sandoz Limited, assignee: *See*—
Flugel, Walter, Hemmi, Hofer, and Mikula.
Sanitary Tampon Corporation, assignee: *See*—
Behr, Harry C. A.
Sansbury, Thomas B., Orlando, Fla. Mechanical hand. 2,532,732, Dec. 5.
Sargent, Donald E., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of colored metallo-α-oximino ketone complex images. 2,533,181 Dec. 5.
Sargent, Donald E., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of colored metallo-α-oximino ketone complex images. 2,533,182, Dec. 5.
Sarnoff, Stanley J., Boston, Mass. Artificial respiration by electronic stimulation. 2,532,788, Dec. 5.
Saunders, Justus G., Silver Spring, Md. Meat package and making the same. 2,533,051, Dec. 5.
Savage Arms Corporation, assignee: *See*—
Hussey, Chester L., and Green.
Savage, Byron B., Oklahoma City, Okla. Extinguishing film fire. 2,532,949, Dec. 5.
Sawtelle, Edmund R., Shawnee-on-Delaware, assignor to Worthington Mower Company, Stroudsburg, Pa. Lawn mower. 2,532,733, Dec. 5.
Schaefer, Vincent J., Schenectady, N. Y., assignor to General Electric Company. Electrical moisture meter. 2,532,822, Dec. 5.
Schaeffer, Jean A., Colombes, assignor to Compagnie Francaise de Raffinage (Societe Anonyme), Paris, France. Manufacture of carbon black. 2,532,789, Dec. 5.
Schaller, Harold E., Boston Mass., assignor to Scotland Mills, Inc. Shuttle guard. 2,532,950, Dec. 5.
Scharbau, Kurt A., and A. Stadler, assignors to Eclipse Fuel Engineering Company, Rockford, Ill. Multiple combustion cell gaseous fuel burner. 2,533,143, Dec. 5.
Schaub, Fred H., River Forest, assignor to Fred H. Schaub Engineering Co., Inc., Chicago, Ill. Steam flow control system. 2,532,951, Dec. 5.
Schaub, Fred H., Engineering Co., Inc., assignee: *See*—
Schaub, Fred H.
Schenker, Samuel W., New York, N. Y. Bed or body support. 2,532,425, Dec. 5.
Schlesinger, Edgar E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Corner structure. 2,532,464, Dec. 5.
Schlesinger, Kurt, assignor to Columbia Broadcasting System, Inc., New York, N. Y. Pulse communication system. 2,532,338, Dec. 5.
Schlesinger, Kurt, assignor to Columbia Broadcasting System, Inc., New York, N. Y. Cathode-ray tube receiving system. 2,532,339, Dec. 5.
Schlumbohm, Peter, New York, N. Y. Cocktail shaker. 2,532,373, Dec. 5.
Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Production of halogenated hydrocarbons. 2,533,052, Dec. 5.
Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Production of monohaloalkanes. 2,533,053, Dec. 5.
Schmidt, Edward G., Western Springs, assignor to Crane Co., Chicago, Ill. Resilient mounting. 2,533,183, Dec. 5.
Schmidt-Nickels, Wilhelm: *See*—
Max, Fritz, and Schmidt-Nickels.
Schmidt, Walter M., assignor to Western Precipitation Corporation, Los Angeles, Calif. Electrode construction for electrical precipitators. 2,532,784, Dec. 5.
Schmitt, Bernard A., Chicago, Ill. Sewing machine. 2,532,790, Dec. 5.
Schmitt, Carl M., Elmhurst, Ill. Work holder supported and clamped between vise jaws. 2,532,952, Dec. 5.
Schneider, Karl: *See*—
Burdick, Will S., and Schneider.
Schneider, Max E., San Antonio, Tex. Convertible coin rolling machine. 2,533,144, Dec. 5.
Schneider, Max S., Chicago, Ill. Electroplating rack. 2,532,516, Dec. 5.
Schnell, James G., assignee: *See*—
Brill, Everett C.
Schorger, Arlie W., Madison, Wis., assignor to Burgess Cellulose Company, Freeport, Ill. Stereotype mat. 2,533,145, Dec. 5.
Schouten, Jan K., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Aerial system. 2,533,054, Dec. 5.
Schroeder, Elmer F., Chicago, assignor to G. D. Searle & Co., Skokie, Ill. 2-trihalomethyl-1,3-dioxolane-4-carboxylic acids and derivatives thereof. 2,532,340, Dec. 5.
Schroeppel, Paul R., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Mower. 2,532,426, Dec. 5.
Schulze, Arthur R., Johnstown, Pa., assignor to Carnegie-Illinois Steel Corporaton. Rail fastening device. 2,533,055, Dec. 5.
Schumann, Helmut W., Racine, Wis. Motor tool. 2,532,823, Dec. 5.
Schwalm, Walter A., Oak Park, Ill., assignor to Zenith Radio Corporation. Intelligence transmission system. 2,533,146 Dec. 5.
Schwartzman, Daniel B., Glen Garden, and W. Jindella, North Bergen, assignors to Protex Company, Jersey City, N. J. Shoe bag. 2,532,517, Dec. 5.
Schwinn, Frank W., Chicago, Ill. Saddle mounting. 2,532,574, Dec. 5.
Scotland Mills, Inc., assignee: *See*—
Schaller, Harold E.
Scott & Fetzer Company, The, assignee: *See*—
Mac Farland, Charles H.
Scott, Freer E., Hammondsport, N. Y. Fertilizer sower attachment for tractors. 2,532,518, Dec. 5.
Scott, Murray H., Benton Harbor, Mich. Tray for infants' training chairs. 2,532,953, Dec. 5.
Scovill Manufacturing Company, assignee: *See*—
Huelster, Otto J.
Scripto, Inc., assignee: *See*—
Smith, Blanchard D.
Searle, G. D., & Co., assignee: *See*—
Custic, John W.
Schroeder, Elmer F.
Searle, Norman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxybicyclo (4.1.0.) hepta-2,4-diene-7-carboxylic esters. 2,532,575, Dec. 5.
Sebestyen, Andrew: *See*—
Rabkin, William, Lissiansky, and Sebestyen.
Sedgwick, Robert K., Oak Park, assignor to American Steel Foundries, Chicago, Ill. Hydraulic press with auxiliary pump in cooling by-pass. 2,532,735, Dec. 5.
Selas Corporation of America, assignee: *See*—
Blaha, Emil.
Selby, James, Middlesex, assignor to Victoria Machine Tool Company, Limited, London, England. Change-speed gear. 2,533,056, Dec. 5.
Senné, Edgar P., Rockville Centre, N. Y. Vacuum cleaner with dirt-bag feed and ejection. 2,532,642, Dec. 5.
Senné, Edgar P., Rockville Centre, N. Y. Filter replacement construction for vacuum cleaners. 2,533,057, Dec. 5.
Servel, Inc., assignee: *See*—
Miller, Charles A.
Severin, Gordon H., Oklahoma City, Okla. Simulated golf game projector with falling head for striking a ball. 2,532,616, Dec. 5.
Shaffer, Donald U., Brea, Calif., assignor to Shaffer Tool Works. Protecting packer for casing heads. 2,533,059, Dec. 5.
Shaffer, Sherman S., Baytown, and B. F. Armendt, Pelly, Tex., assignors to Standard Oil Development Company. Polymerizing olefins. 2,533,058, Dec. 5.
Shaffer Tool Works, assignee: *See*—
Shaffer, Donald U.
Shaieb, George A., assignor to Active Tool & Manufacturing Company, Detroit, Mich. Trailer hitch. 2,532,676, Dec. 5.
Shakespeare Products Company, assignee: *See*—
Weber, Herman.

Shampaine, Hyman R., Clayton, Mo. Elevating mechanism for operating and examining tables. 2,532,677, Dec. 5.

Shannon, Joseph, Beaumont, Tex. Cap for marine oil wells. 2,523,341, Dec. 5.

Sharbaugh, Amandus H.: *See*—
Lafferty, James M., and Sharbaugh.

Sharp & Dohme, Incorporated, assignee: *See*—
Moore, Maurice L.

Sheldon, John G., assignee: *See*—
Letson, William A.

Shell Development Company, assignee: *See*—
Ewell, Robert B.

Shelton, Harry J., University City, assignor to Gruendler Crusher & Pulverizer Co., St. Louis, Mo. Toggle block adjusting device for jaw crushers. 2,532,678, Dec. 5.

Shepard, Alvin F., Tonawanda Township, Erie County, and J. F. Boiney, Tonawanda, assignors to Durez Plastics and Chemicals, Inc., North Tonawanda, N. Y. Rubber-phenolic resin composition. 2,532,374, Dec. 5.

Sheppard, Charles B., Cheltenham, Pa., assignor to Hazeltine Research, Inc., Chicago, Ill. Arrangement for comparing electrical characteristics. 2,532,736, Dec. 5.

Sherer, Chester C., J. M. Koontz, and R. H. Hoefler, assignors to The National Cash Register Company, Dayton, Ohio. Hydrostatic pressure testing apparatus. 2,532,954, Dec. 5.

Sheridan, T. W. & C. B., Company, assignee: *See*—
Kleineberg, Paul E.

Sherwin, Chalmers W., Belmont, and H. A. Straus, Brookline, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical apparatus. 2,532,576, Dec. 5.

Shook, Ross O. S., Hutchinson, Kans. Knee guard or brace. 2,532,955, Dec. 5.

Shooter, Donald H.: *See*—
Bender, John H., and Shooter.

Sider, Frances, New York, N. Y. Garment. 2,532,375, Dec. 5.

Siever, Paul, Minneapolis, Minn. Throttle control device. 2,532,861, Dec. 5.

Sillers, Thomas G. A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Switch position indication. 2,532,647, Dec. 5.

Silvain, André, Roubaix, France. Brassière. 2,533,060, Dec. 5.

Silver, Walter H., and J. I. Cantral, assignors to Deere & Company, Moline, Ill. Detachable power unit for plows. 2,532,577, Dec. 5.

Simons, John K., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Aryl diguanamines. 2,532,519, Dec. 5.

Simpson, David M., Long Beach, Calif. Nonoverfill indicator for battery cells. 2,532,520, Dec. 5.

Simpson, John A., Jr., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Air proportional counter. 2,532,956, Dec. 5.

Simpson, Robert, Morro Bay, Calif. Air supply outlet. 2,532,737, Dec. 5.

Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Track shoe connector. 2,532,824, Dec. 5.

Singer Manufacturing Company, The, assignee: *See*—
Pinkvoss, Berthold P.
Turner, Edgar P.

Six, Willem, and J. L. H. Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Arrangement comprising a cathode-ray tube having means for deflecting the cathode-ray beam. 2,532,738, Dec. 5.

Slater, Fred M., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pressure booster. 2,532,679, Dec. 5.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Fluid operated lifting device. 2,532,342, Dec. 5.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Hydraulic control valve. 2,532,343, Dec. 5.

Slusher, Frank, Carpinteria, Calif., assignor to The B. F. Goodrich Company, New York, N. Y. Forming apertures in elastic articles. 2,532,739, Dec. 5.

Smith, Arthur L., Scotch Village, Nova Scotia, Canada. Electric junction box and the like and cable clamp for the same. 2,532,427, Dec. 5.

Smith, Blanchard D., assignor to Scripto, Inc., Atlanta, Ga. Mechanical pencil with screw feed and hopper type magazine. 2,532,791, Dec. 5.

Smith, Carl E., Cleveland, Ohio, assignor of one-half to United Broadcasting Company. Elliptical polarization electromagnetic energy radiation system. 2,532,428, Dec. 5.

Smith, Robert, Buffalo, N. Y. Beam trammel. 2,532,376, Dec. 5.

Smith, William G., Portland, Oreg. Feed screw mounting for percussion drills. 2,532,344, Dec. 5.

Smola, Barnet, assignee: *See*—
Hayden, Arthur C.

Snuggs, John F.: *See*—
Giachetto, John J., Snuggs, and Bock.

Snyder, Clarence E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube sizing apparatus. 2,532,862, Dec. 5.

Snyder, Gladys, Toronto, Ontario, Canada. Clasp comprising interlocking members having matching surfaces. 2,532,680, Dec. 5.

Société Airseco, assignee: *See*—
Feneron, Emile E.

Society Brand Clothes, Inc., assignee: *See*—
De Vitto, Salvatore T.

Soderberg, Carl R.: *See*—
Kalitinsky, Andrew, and Soderberg.

Soderstrom, Carl E.: *See*—
Burtt, Horatio H., Soderstrom, and Koenig.

Sommers, David, Huntington Station, N. Y. Auxiliary window sash. 2,532,957, Dec. 5.

Sorton, Fred C., assignor to Whitin Machine Works, Whitinsville, Mass. Warp knitting machine. 2,533,061, Dec. 5.

Sparklin, Charles H., Chicago, Ill., assignor to Birtman Electric Company. Speed governor for motors. 2,532,345, Dec. 5.

Sparkman, J. B., Dallas, Tex. Windshield cleaning device. 2,532,429, Dec. 5.

Sparks, Angela S., Augusta, Ga. Folding table for attachment to vehicle doors. 2,533,147, Dec. 5.

Specialties Development Corporation, assignee: *See*—
Heizer, Edward J., and Stuart.

Speer, William H., Moosup, Conn. Fuel burner provided with combustion gas recirculating means. 2,532,740, Dec. 5.

Spence Engineering Company, Inc., assignee: *See*—
Spence, Paulsen.

Spence, Paulsen, Hot Springs, Ark., assignor to Spence Engineering Company, Inc., Walden, N. Y. Regulating valve. 2,532,958, Dec. 5.

Spencer, Russell Sullivan, Ind., assignor to Cardox Corporation, Chicago, Ill. Material breaking shell. 2,532,578, Dec. 5.

Spero, George B.: *See*—
Levin, Robert H., McIntosh, Jr., and Spero.

Sperry Corporation, The, assignee: *See*—
Goerts, Raymond C.
Lundstrom, Oscar.
Staude, Edwin G.

Spiegel, Herman B., assignor to Philco Corporation, Philadelphia, Pa. Phonograph pickup apparatus having a removable cartridge. 2,532,377, Dec. 5.

Spiegel, Robert, Formoso, Kans. Rotary hydraulic coupling. 2,533,148, Dec. 5.

Spink, Edward J., Council Bluffs, Iowa. Staple nail. 2,533,062, Dec. 5.

Stadler, Albert: *See*—
Scharbau, Kurt A., and Stadler.

Stair, Ray L., San Fernando, Calif. Rolling ball and track toy. 2,532,521, Dec. 5.

Staley, A. E., Manufacturing Co., assignee: *See*—
Trempel, Larry G., and Frink.

Stancliff, Clifton L., Bakersfield, Calif. Mechanical silent tappet. 2,532,346, Dec. 5.

Standard Brands Incorporated, assignee: *See*—
Barch, William E.

Standard Oil Company, assignee: *See*—
Giachetto, John J., Snuggs, and Bock.
Hertwig, Waldemar R., and Bushnell.

Standard Oil Company, The, assignee: *See*—
Atkinson, Ralph G.

Standard Oil Development Company, assignee: *See*—
Hannon, John H., and Lane.
Cohen, Charles A.
Jasion, Leo Z., and Eby.
Matheson, George L.
Shaffer, Sherman S., and Armendt.
Vesterdal, Hans G., and Sykes.
Voorhies, Alexis, Jr.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Arnold, Nicholas H.
Schlesinger, Edgar E.
West, Victor E.
Zeidler, Kurt E.

Stang, Louis G., Jr., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Precipitation process and apparatus therefor. 2,533,149, Dec. 5.

Stanley, Richard W., Lakewood, Ohio, assignor to American Viscose Corporation, Wilmington, Del. Spinning artificial filaments. 2,532,465, Dec. 5.

Stanolind Oil and Gas Company, assignee: *See*—
Phinney, John A.

Starnes, Tilmon B., Port Arthur, Tex. Windshield for plum bobs. 2,532,378, Dec. 5.

Staude, Edwin G., Minneapolis, Minn., assignor to The Sperry Corporation, New York, N. Y. Method and mechanism for folding paper boxes. 2,532,522, Dec. 5.

Steel and Alloy Tank Company, assignee: *See*—
Cooper, Henry.
Kulczycki, Karol, and Lundgren.
Mallard, Robert G., and Ashton.
Mastriani, Elvin A.

Steen, Carl A., Getinge, Sweden. Electric steam heating device. 2,533,063, Dec. 5.

Steen, Howard W., Doniphan, Mo. Tying flies. 2,532,961, Dec. 5.

Steffen, Emil, Adams County, Ind. Wheel ridge leveling device. 2,533,150, Dec. 5.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens mounting for semirimless spectacles. 2,532,959, Dec. 5.

Stelzer, William, East Orange, N. J. Brake booster. 2,532,960, Dec. 5.

Stemmons, Robert, Middletown, Ohio, and W. L. Edel, assignors to Clayton & Lambert Manufacturing Company, Louisville, Ky. Reinforced sheet metal roof. 2,532,466, Dec. 5.

Sterling Drug Inc., assignee: *See*—
Feldkamp, Rolland F.

Stevens, Adolph K., Buffalo, N. Y. Antiskid device. 2,533,151, Dec. 5.

Stevens, Ralph R., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microphone with opposite electrodes being of varying and constant curvature. 2,532,741, Dec. 5.

Stewart, Emma M., High Point, N. C. Carrier for a combination hot water bottle, ice bag, and fountain syringe. 2,532,962, Dec. 5.

Stewart, John H. F., Detroit, Mich. Fluid sealing device. 2,533,201, Dec. 5.

Stewart-Warner Corporation, assignee: *See*—
Fairbanks, Gordon J., and Tramontini.

Stodola, Edwin K., Neptune, N. J., assignor to the United States of America as represented by the Secretary of War. Radar receiver automatic gain control circuit. 2,532,347, Dec. 5.

Stoiner, Stephen, Cleveland, Ohio. Cushion heel. 2,532,742, Dec. 5.

Stone, John M.: *See*—
Underwood, Arthur F., and Stone.

Storch, Harold A., Pontiac, assignor to Evans Products Company, Detroit, Mich. Wear strip and floor ring. 2,532,743, Dec. 5.

Storm, Herbert F., Schenectady, N. Y., assignor to General Electric Company. Welding control system. 2,532,825, Dec. 5.

Stover, William J., Detroit, Mich. Exterminator protecting device. 2,532,681, Dec. 5.

Straley, James M., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype containing as the azo component a quaternary salt of 2-methyl-6-methoxybenzoselenazole. 2,532,744, Dec. 5.

Straus, Henry A.: *See*—
Sherwin, Chalmers W., and Straus.

Streader, William J., assignor to A. E. Tate, Portslade, England. Anchorage for cables. 2,533,064, Dec. 5.

Strother, Corneille O., Buffalo, and G. H. Wagner, Kenmore, N. Y., assignors to The Linde Air Products Company. Preparation of vinyl silicon chlorides. 2,532,430, Dec. 5.

Strutt, Maximiliaan J. O.: *See*—
Knol, Kornelis S., Strutt, and vander Ziel.

Stuart, Meredith R.: *See*—
Heizer, Edward J., and Stuart.

Sturtevant, Mark J., assignor to Wingfoot Corporation, Akron, Ohio. Inflating tube assembly. 2,533,202, Dec. 5.

Suhre, Jerome: *See*—
Loria, Walter J., and Suhre.

Sulphide Ore Process Company, Inc., assignee: *See*—
Konrad, Erich H., and Eustis.

Sun Oil Company, assignee: *See*—
Henson, Robert L., Jr., and Millington.
Hirschler, Alfred E.
Quist, Harold A.

Sun Tube Corporation, The, assignee: *See*—
Friden, John H.

Sunbeam Corporation, assignee: *See*—
Bartlett, Edwin S.

Sunnen, Joseph, Clayton, Mo. Honing mandrel. 2,532,682, Dec. 5.

Surgident, Ltd., assignee: *See*—
Boeger, Henry F.

Svensjö, Nils E., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal separation of sludge-containing liquids. 2,532,792, Dec. 5.

Svenska Cellulosa Aktiebolaget, assignee: *See*—
Lindblad, Karl R.

Svenson, Helmar, Milwaukee, Wis. Fishhook extractor. 2,533,152, Dec. 5.

Swanson, Oscar W., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Carriage return mechanism for record making machines. 2,533,153, Dec. 5.

Sweger, Russell P., assignor to Barber-Colman Company, Rockford, Ill. Movable contact structure. 2,532,468, Dec. 5.

Swindell-Dressler Corporation, assignee: *See*—
Hanff, Edward A.

Sykes, Harry J.: *See*—
Vesterdal, Hans G., and Sykes.

Szent-Gyorgyi, Albert, Woodshole, Mass., and K. Laki and M. Gerendás, Budapest, Hungary. Blood clotting preparation. 2,532,348, Dec. 5.

Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Reflex amplification utilizing camera tube. 2,532,793, Dec. 5.

Talmadge, Alberta M., assignee: *See*—
Hart, James F.

Tanner, Grathy O., Houston, Tex. Combined clock and loud speaker unit. 2,532,963, Dec. 5.

Taplin, George V., and F. A. Bryan, Brighton, N. Y. Micropulverized therapeutic agents. 2,533,065, Dec. 5.

Taplin, George V., and F. A. Bryan, Brighton, N. Y. Micropulverized therapeutic compositions. 2,533,066, Dec. 5.

Taren, Jack, and A. Leon, Los Angeles, Calif. Teeth-locking comb. 2,533,067, Dec. 5.

Tarlton, Frank H., Alvaston, assignor to Rolls-Royce Limited, Derby, England. Synchromesh coupling. 2,532,648, Dec. 5.

Tate, Albert E., assignee: *See*—
Streader, William J.

Taylor, Auburn, Charleston, W. Va. Collapsible box unit. 2,532,863, Dec. 5.

Taylor, James, Saltcoats, and J. M. Holm, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Pesticidal or insect-repellant fumigating compositions. 2,532,349, Dec. 5.

Taylor, Norman H., Manchester, Mass., and R. M. Wilmotte, said Taylor assignor to R. M. Wilmotte, Washington, D. C. Automatic electronic tolerance monitor. 2,532,964, Dec. 5.

Teece, Cecil A. S., Barton, Canberra, Australia. Automatic control for burst firing. 2,532,794, Dec. 5.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Rapp, John A. D. Y.

Tennessee Coal, Iron and Railroad Company, assignee: *See*—
Heide, Samuel S.
Rodgers, Howard C.

Tennessee Valley Authority, assignee: *See*—
McFarlin, Charles J.

Texas Company, The, assignee: *See*—
Devaney, Lawrence W.

Theodorackis, Manuil G., Johannesburg, Transvaal, Union of South Africa. Preventing theft of cycles. 2,532,864, Dec. 5.

Thiele, Charles F., Old Greenwich, Conn. Indicator and control device. 2,533,068, Dec. 5.

Thiokol Corporation, assignee: *See*—
Patrick, Joseph C., and Davis.

Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D.

Thomas, Charles A., Fort Wayne, Ind., assignor to General Electric Company. Brush rigging. 2,532,827, Dec. 5.

Thomas, Floris E., Chicago, Ill. Display rack for panels. 2,532,965, Dec. 5.

Thomas, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control compositions containing beta-acyl acrylates. 2,532,579, Dec. 5.

Thomas, Tom, Houston, Tex. Wheelbarrow booster. 2,532,966, Dec. 5.

Thompson, Harry H.: *See*—
Johnson, Theodore A., and Thompson.

Thompson, James W., Alexandria, La. Bleacher structure. 2,532,649, Dec. 5.

Thompson, Joseph C., Davenport, Iowa. Spinograph method and apparatus. 2,532,967, Dec. 5.

Thomson, Robin H. K., Kilwinning, and W. A. Caldwell, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Production of insolubilized protein artificial filamentary products. 2,532,350, Dec. 5.

Thornley, Edwin M., Bloomington, Ill. Track gauging apparatus. 2,532,745, Dec. 5.

Thunbo, Anton P. R., assignor to Dansk Skrivemaskinefabrik ved Foss, Rindom & Lauritzen, Copenhagen, Denmark. Typewriter manifolding device. 2,532,431, Dec. 5.

Thurston Manufacturing Company, assignee: *See*—
Redinger, Joseph M.

Tidings Corporation of America, assignee: *See*—
Avedikian, Souren Z. and D. G.

Tigges, Eberhard, San Francisco, Calif. Pocket lighter. 2,532,650, Dec. 5.

Timber Structures, Inc., assignee: *See*—
Payzant, Henry H.

Tishler, Max: *See*—
Howe, Eugene E.

Toland, William C., Brookline, A. P. Reynolds, Wellesley, and M. H. Hamilton, Lexington, Mass. Lithographic printing plate. 2,532,865, Dec. 5.

Toland, William C., Brookline, and M. H. Hamilton, Lexington, Mass. Method and plate for lithographic printing. 2,532,866, Dec. 5.

Tolliver, Keith W., Homewood, Ill. Chuck construction. 2,533,154, Dec. 5.

Tom, John E., East Cleveland, assignor, by mesne assignments, to Earl Realty Company, Cleveland, Ohio. Power garden tractor. 2,532,580, Dec. 5.

Toms, Frank H., Detroit, Mich. Shade roller operating device. 2,532,867, Dec. 5.

Toney, Gordon B.: *See*—
Barnhart, John, and Toney.

Tota, Kenneth P., Elmira, N. Y., assignor to Bendix Aviation Corporation. Engine starter control switch. 2,532,968, Dec. 5.

Tramontini, Vernon N.: *See*—
Fairbanks, Gordon J., and Tramontini.

Trautman, Walter C., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Airplane control system. 2,532,469, Dec. 5.

Traver, Harry G., Cranford, N. J. Helicopter having adjustable rotors and stabilizing fins. 2,532,683, Dec. 5.

Trempel, Larry G., Decatur, Ill., and M. E. Frink, Tacoma, Wash., assignors to A. E. Staley Manufacturing Co., Decatur, Ill. Preparation of cakes with liquid oil. 2,532,523, Dec. 5.

Triggs, Melvin V., Alhambra, Calif. Polishing machine. 2,532,581, Dec. 5.

Trimble Nurseryland Furniture, Inc., assignee: *See*—
De Puy, Charles T.
Tri-State Plastic Molding Co., assignee: *See*—
Yates, Cy J.
Trom, Eugene D., Blooming Prairie, Minn. Device for maintaining reserve supply in liquid supply tanks. 2,532,379, Dec. 5.
Trout, Norwood S., Jr.: *See*—
Dickey, John W., and Trout.
Trump, Frederick O., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Sheet material delivery means. 2,533,184, Dec. 5.
Tschohl, Harry J., and E. M. Hanson, Mankato, Minn. Traction grip. 2,532,380, Dec. 5.
Tschopp, Louis R., Buffalo, N. Y. Illuminated sign with interchangeable sign elements. 2,532,651, Dec. 5.
Tschumi, Otto, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland. Synchronizing device for stepping mechanisms. 2,532,582, Dec. 5.
Tuckerman, Bryant: *See*—
McNish, Alvin G., and Tuckerman.
Turman, Ross J., Medford, Oreg. Frame for modifying lawn mower. 2,532,746, Dec. 5.
Turner, Edgard P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Casing members of vacuum cleaners and latches therefor. 2,532,432, Dec. 5.
Tylutki, Mitchell A.: *See*—
Mott, Chester, Chouinard, and Tylutki.
Tyran, Leo W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Silicon-containing polymer preparation. 2,532,583, Dec. 5.
Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Electric arc welding. 2,533,069, Dec. 5.
Tyraeck, Walter J., assignor to Robertson Paper Box Company Incorporated, Montville, Conn. Carton. 2,533,070, Dec. 5.
Underwood, Arthur F., Grosse Pointe, and J. M. Stone, Grosse Pointe Park, assignors to General Motors Corporation, Detroit, Mich. Bearing. 2,532,795, Dec. 5.
Underwood Corporation, assignee: *See*—
Hartman, Herman G.
Swanson, Oscar W.
Von Hacht, William S.
Yaeger, Harry C.
Union Oil Company of California, assignee: *See*—
Doumani, Thomas F.
Union Switch & Signal Company, The, assignee: *See*—
Cadman, Ira F.
Volz, Carl.
United Aircraft Corporation, assignee: *See*—
Kalitinsky, Andrew, and Soderberg.
Wallace, Rudolf N.
United Broadcasting Company, assignee: *See*—
Smith, Carl E.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Anderson, Herbert L.
Chupp, Warren W.
Fried, Sherman, and Davidson.
Fries, Bernard A.
Gifford, John F.
Kennedy, Joseph W., Baker, and Wiegand.
Newton, Amos S.
Simpson, John A., Jr.
Stang, Louis G., Jr.
Universal Oil Products Company, assignee: *See*—
Hoekstra, James.
Pines, Herman, and Vesely.
Schmerling, Louis.
Webb, Glenn M., and Moehl.
Universal Products Corporation, assignee: *See*—
Van Leer, Oscar, and Zook.
University Loudspeakers, Inc., assignee: *See*—
Levy, Sidney E.
University of Michigan, Regents of the, assignee: *See*—
Blicke, Frederick F.
Unkauf, Henry C., Endicott, assignor to General Aniline & Film Corporation, New York, N. Y. Alkyl malonamates as aso coupling components in diazotype layers. 2,533,185, Dec. 5.
Upjohn Company, The, assignee: *See*—
Levin, Robert H., McIntosh, Jr., and Spero.
Vagim, Edward J., Fresno, Calif. Feeding device for nonfree-flowing materials in bulk with adjustable flow control plate and elongated handle therefor. 2,532,584, Dec. 5.
Valentine, Loyd L., Atlantic, Iowa. Garment hanger. 2,532,969 Dec. 5.
Van Cleve, Charles I., Lynchburg, Va. Bottom dispensing steam food conditioner. 2,532,868, Dec. 5.
Van der Rohe, Ludwig M., and W. Peterhans, Chicago, Ill. Apparatus for the production of dot-composed negatives. 2,532,585, Dec. 5.
Van de Ziel, Aldert: *See*—
Knol, Kornelis S., Strutt and van der Ziel.
Van Dyke Instruments, Inc., assignee: *See*—
Van Dyke, William D.
Van Dyke, William D., assignor to Van Dyke Instruments, Inc., Tarzana, Calif. Indicating device. 2,532,970, Dec. 5.
Van Gelder, Zeger, and A. J. W. M. van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn, as trustee. Circuit arrangement comprising a cathode-ray tube. 2,532,747, Dec. 5.
Van Leer, Oscar, Tujunga, and M. A. Zook, Jr., Rosemead, assignors, by mesne assignments, to Pacific Universal Products Corporation, Pasadena, Calif. Method and apparatus for producing optical coatings. 2,532,971, Dec. 5.
Van Overbeek, Adrianus J. W. M.: *See*—
Cupido, Piet Marinus, Gail, Jonker, and van Overbeek.
Van Gelder, Zeger and van Overbeek.
Van Overbeek, Adrianus J. W. M., and J. Dorrestijn, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Multigrid electron discharge tube. 2,532,869, Dec. 5.
Van Steenis, Otto L.: *See*—
Roovers, Wilhelmus A., Veenemans, and van Steenis.
Veenemans, Cornelis F.: *See*—
Roovers, Wilhelmus A., Veenemans and van Steenis.
Vertin, Donald D., Rapid City, S. Dak. Screw holder and starter. 2,532,972, Dec. 5.
Vesely, Jerome A.: *See*—
Pines, Herman, and Vesely.
Vesterdal, Hans G., Elizabeth, N. J., and H. J. Sykes, El Rosal, Venezuela, assignors to Standard Oil Development Company. Synthesis of hydrocarbons in the presence of an iron type catalyst. 2,533,071, Dec. 5.
Vesterlund, Johan H.: *See*—
Wallentin, Ake H., Carlsson, and Vesterlund.
Vickers Incorporated, assignee: *See*—
Robinson, James, and Losey.
Victoria Machine Tool Company, Limited, assignee: *See*—
Selby, James.
Virkotype Corporation, assignee: *See*—
Berndt, Richard F.
Volz, Carl, State College, assignor to The Union Switch and Signal Company, Swissvale, Pa. Electronic coding means for signaling systems. 2,532,870, Dec. 5.
Von Hacht, William H., Bronxville, N. Y., assignor to Underwood Corporation. Machine supporting assembly for business machines. 2,533,155, Dec. 5.
Voorhies, Alexis, Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Hydrocarbon syuthesis. 2,533,072, Dec. 5.
Votruba, Vojtěch, assignor to Koh-I-Noor L. & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia. Push-cap operated pencil. 2,532,748, Dec. 5.
Vroom, Kenneth E.: *See*—
Cataldo, John B., and Vroom.
Wagner, Fred R.: *See*—
Hauser, George H., and Wagner.
Wagner, George H.: *See*—
Bailey, Donald L., and Wagner.
Strocher, Corneille O., and Wagner.
Wagner, Melvin, Ambler, assignor to Glenside Bag Company, Glenside, Pa. Machine and method of forming a package. 2,532,871, Dec. 5.
Wale, John: *See*—
Givens, John H., Wale, and Rose.
Walker, Brooks, assignee: *See*—
Hauser, George H., and Wagner.
Walker, Francis S., Temple, Tex. Cemetary lot curbing. 2,532,524, Dec. 5.
Walker, Joseph B., Hollywood, Calif. Lens adjusting mechanism for cameras. 2,532,684, Dec. 5.
Walker, Joseph B., Hollywood, Calif. Lens adjusting mechanism. 2,532,685, Dec. 5.
Wallace, Rudolf N., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Control of engine cylinder temperatures. 2,533,156, Dec. 5.
Wallentin, Åke H., H. O. Carlsson, and J. H. Vesterlund, Goteburg, Sweden. Apparatus for proportioning metaphosphate to a liquid. 2,532,973, Dec. 5.
Wanzer, Arthur W., assignor to Murray & Tregurtha, Inc., Quincy, Mass. Outboard propeller mechanism for boats with eccentrically mounted shaft housings. 2,532,470, Dec. 5.
War, United States of America as represented by the Secretary of, assignee: *See*—
Bell, Persa R., Jr.
Counter, Virgil A., Fairbanks, and Halpern.
Everhart, Edgar.
Ferry, John D., and Morrison.
Forbes, Gordon D.
Hess, Gerard C.
Higginbotham, William A., and Pepinsky.
Jarvis, George A.
McNish, Alvin G., and Tuckerman.
Rhyne, Jeff S.
Sherwin, Chalmers W., and Straus.
Stodola, Edwin K.
Wilman, Jacob.
Wu, William I.
Ward, Bienkinsop & Company Limited, assignee: *See*—
Goldberg, Alan A., and Ellinger.
Ware, Cecil, Houston, Tex. Safety joint. 2,532,686, Dec. 5.
Warnecke, Robert, and M. Lortie, Paris, France assignors to Compagnie Generale de Telegraphie Sans Fil. Velocity modulation electronic valve. 2,532,796, Dec. 5.

Warner, Louis A., New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Navigation system. 2,532,974, Dec. 5.
Warren, Horace G.: *See*—
Johnson, Merriam E., and Warren.
Watrous, Constant H.: *See*—
Aurand, Cecil C., and Watrous.
Watson, Edmund A.: *See*—
Evans, Morris S., Kleckner, and Watson.
Webb, Glenn M., Western Springs, and R. W. Moehl, Congress Park, assignors to Universal Oil Products Company, Chicago, Ill. Preparation of a hydrocarbon conversion catalyst. 2,532,525, Dec. 5.
Weber, Herman, assignor to Shakespeare Products Company, Kalamazoo, Mich. Remote-control device for brakes and other remote control parts. 2,532,975, Dec. 5.
Webster-Chicago Corporation, assignee: *See*—
Dale, Colin B.
Wedebrock, Archibald L.: *See*—
Mackey, William H., and Wedebrock.
Wedebrock, Archibald L., Westwood, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Blowing machine for insulation and the like. 2,532,351, Dec. 5.
Wedler, Frederick C., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spray application of dyestuff and other materials. 2,532,471, Dec. 5.
Weichselbaum, Theodore E., Normandy, Mo., assignor to Applied Research Corporation. Methods and flame generating apparatus for spectrophotometric quantitative analysis. 2,532,687, Dec. 5.
Weiland, John N., assignor to The Cleveland Punch & Shear Works Co., Cleveland, Ohio. Clutch and brake mechanism. 2,532,381, Dec. 5.
Weimer, Paul K., Princeton, N. J., assignor to Radio Corporation of America. Cathode beam tube. 2,533,073, Dec. 5.
Weinig, Arthur J., Golden, assignor to Colorado Iron Works Company, Denver, Colo. Rotary ore concentrator. 2,533,074, Dec. 5.
Weirich, Arthur J.: *See*—
Weirich, Wallace J., A. J., and W. V.
Weirich, Wallace J., A. J., and W. V., Chicago, Ill. Coin dispensing apparatus. 2,532,976, Dec. 5.
Weirich, Wallace V.: *See*—
Weirich, Wallace J., A. J., and W. V.
Weissman, Eugene, Libertytown, Md. Quick-driving glazier's point. 2,532,797, Dec. 5.
Wells, Frank W., Pasadena, Calif. Adjustable hand rake. 2,532,526, Dec. 5.
Werner, Sten S. T.: *See*—
Malmqvist, Johan D., Gustafsson, and Werner.
Werner, Sture E., assignor to L. M. Ericssons Kassaregister Aktiebolag, Stockholm, Sweden. Cash register, accounting machine, and the like. 2,533,075, Dec. 5.
West, Merle J.: *See*—
Zierold, Herman A., and West.
West, Victor E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerator car hatch construction. 2,532,472, Dec. 5.
Western Precipitation Corporation, assignee: *See*—
Schmidt, Walter M.
Westfall, Robert W., North Hollywood, assignor of forty-nine per cent to E. C. Marshall, Los Angeles, Calif. Tagline device. 2,532,828, Dec. 5.
Wheeler Insulated Wire Company, Incorporated, The, assignee: *See*—
Muldoon, William J.
Wheeler, Osgood Company, The, assignee: *See*—
Michael, Stephen L., and Anderson.
Wheeler Paper Corporation, assignee: *See*—
Jagger, Ivan D.
White Cap Company, assignee: *See*—
Davies, Lynn E.
White, Delmas J., Greenfield, Ind. Dual flushing system for toilets. 2,532,977, Dec. 5.
White, Edgar G., Peru, assignor to Sampsel Time Control, Inc., Spring Valley, Ill. Constant temperature maintenance system. 2,532,382, Dec. 5.
White, Edgar G., Peru, assignor to Sampsel Time Control, Inc., Spring Valley, Ill. Warm air limit control switch. 2,532,383, Dec. 5.
Whitin Machine Works, assignee: *See*—
Sorton, Fred C.
Wickwire, Bertram N., Pelham Manor, N. Y. Portable lock for swinging doors. 2,532,586, Dec. 5.
Wiegand, Clyde E.: *See*—
Kennedy, Joseph W., Baker, and Wiegand.
Wilcox, Granville M., Lincoln, assignor to M. L. Grant, Providence, R. I. Coin collector apparatus. 2,532,978, Dec. 5.
Wild, Rudolf F., Philadelphia County, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Frequency responsive measuring and controlling apparatus. 2,532,872, Dec. 5.
Williams, David M., Warrensville Heights, assignor to The Arco Company, Cleveland, Ohio. Apparatus for testing the adhesion of films of coating material. 2,533,076, Dec. 5.
Williams, Ralph E., Chicago, Ill., assignor to B. F. Gump Co. Combined filling and vibrating device having an elongated vibratory bag member. 2,533,157, Dec. 5.
Williamson, Larkin R., Montclair, N. J. Gear reduction mechanism for press brakes. 2,533,077, Dec. 5.
Williamson, Thomas F. M., San Francisco, assignor to A. H. Isenberg, Woodside, Calif. Thermal insulated pipe. 2,532,587, Dec. 5.
Wilmotte, Raymond M., assignee: *See*—
Castle, Clemens X.
Wilmotte, Raymond M.: *See*—
Taylor, Norman H., and Wilmotte.
Wilson-Jones Company, assignee: *See*—
Faulkner, Roy M.
Wilson, Nathan B., Savannah, Ga. Device for sanding floors or the like. 2,532,979, Dec. 5.
Winans, Earl W., Detroit, Mich. Torque transmitting shaft coupling. 2,532,829, Dec. 5.
Winchester Electronics Company, assignee: *See*—
Burtt, Horatio H., Soderstrom, and Koenig.
Wingfoot Corporation, assignee: *See*—
Bricker, Carl E., and Neff.
Flory, Paul J., and Rabjohn.
Johnson, Theodore A., and Thompson.
Pace, Henry A.
Sturtevant, Mark J.
Wingquist, Sven G., Goteborg, Sweden. Universal joint. 2,532,433, Dec. 5.
Wingquist, Sven G., Goteborg, Sweden. Universal joint. 2,532,434, Dec. 5.
Wittlin, Albert, assignee: *See*—
Hoesel, Anthony F.
Wolfe, Charles V., assignor to E. C. Atkins and Company, Indianapolis, Ind. Chain saw frame. 2,532,981, Dec. 5.
Woodling, George V., Cleveland, Ohio. Flexible but supported tube coupling sleeve. 2,532,352, Dec. 5.
Woodruff, Harold B., Westfield, and A. H. Larsen, assignors to Merck & Co., Inc., Rahway, N. J. The production of benzyl penicillin. 2,532,980, Dec. 5.
Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyestuff for dyeing animal fibers in shades of brown. 2,532,588, Dec. 5.
Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,533,078, Dec. 5.
Wooldridge Manufacturing Company, assignee: *See*—
Richter, John E.
Woolery, Horace E., deceased, St. Paul, Minn.; M. L. Woolery, executrix of said H. E. Woolery, assignor to Woolery Machine Company, Minneapolis, Minn. Water boiler and heater. 2,532,527, Dec. 5.
Woolery Machine Company, assignee: *See*—
Woolery, Horace E.
Woolery, Myra L., executrix: *See*—
Woolery, Horace E.
Worden, John L., San Diego, Calif. Sharpener for mechanical pencils. 2,532,384, Dec. 5.
Worthington Mower Company, assignee: *See*—
Sawtelle, Edmund R.
Wray, Alexander J., Sr., Pomona, Calif. Rotary side-delivery rake. 2,532,652, Dec. 5.
Wright, David C., Salem, Ohio. Slingshot. 2,532,798, Dec. 5.
Wright, Mildred B., Berwyn, Ill. Drapery fixture. 2,532,653, Dec. 5.
Wu, William I., New York, N. Y., assignor to the United States of America as represented by the Secretary of War. Signal-seeking transceiver. 2,532,589, Dec. 5.
Wulff, Frank D., Chicago, Ill. Beverage making filter. 2,532,688, Dec. 5.
Yaeger, Harry C., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Auxiliary frame for typewriters. 2,533,158, Dec. 5.
Yates, Cy J., assignor to Tri-State Plastic Molding Co., Henderson, Ky. Container closure. 2,533,159, Dec. 5.
Young, Arthur R., assignor to Barber-Colman Company, Rockford, Ill. Electromagnetic relay. 2,533,160, Dec. 5.
Young, Charles J., Princeton, N. J., assignor to Radio Corporation of America. Facsimile system having rotating scanner moving longitudinally within stationary transparent drum. 2,532,799, Dec. 5.
Young, L. A., Spring & Wire Corporation, assignee: *See*—
Asaro, Vito.
Zanardo, Peter J., Chicago, Ill. Cigarette container, dispenser, and lighter. 2,532,689, Dec. 5.
Zeidler, Kurt E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerant container for railway cars. 2,532,473, Dec. 5.
Zenith Radio Corporation, assignee: *See*—
Rodriguez, Antonio R.
Schwalm, Walter A.
Ziebolz, Herbert, Chicago, Ill., assignor to Askania Regulator Company. Electric measuring system. 2,533,079, Dec. 5.
Zierold, Herman A., Burbank, and M. J. West, Los Angeles, Calif.; said West assignor to said Zierold. Spool and scissors holder. 2,532,654, Dec. 5.
Zimmerman, Jay V., St. Louis, Mo. Apertured cap for collapsible tube, having friction-biased reciprocable closure for the aperture. 2,532,690, Dec. 5.
Zook, Morris A., Jr.: *See*—
Van Leer, Oscar, and Zook.
Zuley, Edward A., assignor to Leader Electric Manufacturing Corporation, Chicago, Ill. Mounting for overhead lighting fixtures. 2,532,528, Dec. 5.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Stall warning device for airplanes. L. Greene. Re. 23,302, Dec. 5.

Window structure. A. D. Carani. Re. 23,301, Dec. 5.

LIST OF PLANT INVENTIONS

Rose plant. F. H. Howard. 996, Dec. 5.

LIST OF DESIGN INVENTIONS

Air suction and thread trimming machine, Combined. J. Blaeker. 161,084, Dec. 5.
Attachment for handbags or the like, Glove holding. L. G. Meyers. 161,116, Dec. 5.
Boot, Rubber. J. F. Eldon. 161,094, Dec. 5.
Cabinet for a heater or the like. L. H. Wilson. 161,145–7, Dec. 5.
Cabinet, Temperature-controlled vending. F. A. Ossanna, Jr. 161,121, Dec. 5.
Cart, Shopping. A. V. Hansa. 161,103, Dec. 5.
Clip for a drapery pleater. B. Walters. 161,143, Dec. 5.
Coat, Child's hooded. M. Saltzman. 161,129, Dec. 5.
Container. B. Boltè and R. Dixon. 161,086, Dec. 5.
Container for books or similar articles. B. B. Harvey and J. D. Landes, Jr. 161,104, Dec. 5.
Crib, Child's. N. Genovese. 161,099, Dec. 5.
Dispenser for streetcars and busses, Newspaper and pamphlet. J. L. Robins. 161,127, Dec. 5.
Dress. O. A. Berman. 161,082, Dec. 5.
Fabric, Jacquard. J. A. Hirsch. 161,106, Dec. 5.
Flower pot and stand therefor, Combined. R. Dottavio. 161,092–3, Dec. 5.
Form or the like, Shoe. P. S. McCutcheon. 161,113, Dec. 5.
Front for an ophthalmic mounting. D. A. Atwood. 161,077–9, Dec. 5.
Game table, Shuffleboard. R. Bazelon. 161,081, Dec. 5.
Goblet, Hollow stem crystal beer. W. A. Meier. 161,115, Dec. 5.
Grill, Barbecue. A. B. Barnhart. 161,080, Dec. 5.
Heel, Shoe. F. N. Grasberger. 161,102, Dec. 5.
Instrument, Stringed musical. E. H. Alkire. 161,075, Dec. 5.
Lace. H. Farnsworth. 161,095, Dec. 5.
Lock, Luggage. L. R. Zifferer. 161,149, Dec. 5.
Necklace or similar article. A. Philippe. 161,123–4, Dec. 5.
Nozzle or similar article, Vacuum cleaner. O. L. Allen. 161,078, Dec. 5.
Photographic flashlight apparatus. F. G. Knowles. 161,110, Dec. 5.
Plate or similar article. T. O. Muench. 161,118, Dec. 5.
Rack, Movable mirror. A. V. Sneed. 161,141, Dec. 5.
Rattle and suction cup, Combined illuminable. L. Packman. 161,122, Dec. 5.
Rattle, Suction cup. B. Gelardin. 161,098, Dec. 5.
Receptacle for fire extinguishing grenade. C. F. Hoelzel. 161,107, Dec. 5.
Sandal or similar article. J. L. Olson. 161,120, Dec. 5.
Scoreboard, Canasta. J. D. Cacciarelli. 161,088, Dec. 5.
Seat, Toilet. B. A. Kandarian. 161,108, Dec. 5.
Shaker, Combined salt-and-pepper. F. Polime. 161,125, Dec. 5.
Shelf, Miniature wall. N. Rubin. 161,128, Dec. 5.
Shoe. M. Gordon. 161,101, Dec. 5.
Shoe or the like. J. Sandler. 161,130, Dec. 5.
Shopping center. A. McNab. 161,114, Dec. 5.
Signal, Reflector. C. M. Boiser. 161,085, Dec. 5.
Slippersock. G. Frankel. 161,097, Dec. 5.
Spade fork or similar article. E. M. Scott. 161,131, Dec. 5.
Stand, Hat display. S. Bernstein. 161,083, Dec. 5.
Stand, Match book display. J. Shapiro. 161,138–9, Dec. 5.
Stand, Merchandise display. N. W. Moody. 161,117, Dec. 5.
Stencil, Eyebrow. E. H. Westmore. 161,144, Dec. 5.
Stepladder or the like. R. A. Cramer. 161,091, Dec. 5.
Sun glasses or similar article, Pair of. J. R. Shrewsbury. 161,140, Dec. 5.
Swing. H. C. Kregger. 161,111, Dec. 5.
Textile fabric or the like. C. M. Ogden. 161,119, Dec. 5.
Toaster, Electric. M. F. Fitzgerald. 161,096, Dec. 5.
Toy automobile, Educational. A. C. Young. 161,148, Dec. 5.
Toy bank. L. E. Cooke. 161,090, Dec. 5.
Tray, Canasta card. F. Collura. 161,089, Dec. 5.
Trimmer, Portable grass. B. F. Keiper. 161,109, Dec. 5.
Truck for vacuum cleaner and accessories, Hand. J. G. Haworth. 161,105, Dec. 5.
Vaporizer. C. W. Sundberg. 161,142, Dec. 5.
Vase or similar article. R. L. Buhrig. 161,087, Dec. 5.
Vehicle, Motor. J. J. Powers. 161,126, Dec. 5.
Wallpaper or the like. J. Seeman. 161,132–7, Dec. 5.
Wheel chair. W. A. Linquist. 161,112, Dec. 5.
X-ray apparatus. E. R. Goldfield and R. J. Stava. 161,100, Dec. 5.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 5TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorption refrigerating system of the uniform pressure type. C. A. Miller. 2,533,031, Dec. 5.
Accelerator linkage, Brake controlled. G. M. Etnyre. 2,532,544, Dec. 5.
Addition products of sulfuric acid and polycarboxylic tertiary amino acids. F. C. Bersworth. 2,532,392, Dec. 5.
Adjustable coupling. B. A. Beck, Sr. 2,532,754, Dec. 5.
Aerial system. J. K. Schouten. 2,533,054, Dec. 5.
Air circulating arrangement for refrigerators. L. M. Kurtz. 2,532,816, Dec. 5.
Aircraft propeller drive. J. J. Bloomfield. 2,532,755, Dec. 5.
Aircraft radar-map roll correction system. W. A. Higinbotham and R. Pepinsky. 2,532,549, Dec. 5.
Air-line lubricator. P. G. Cox. 2,532,441, Dec. 5.
Airplane control system. W. C. Trautman. 2,532,469, Dec. 5.
Airplane, Multiple channel wing. W. R. Custer. 2,532,481, Dec. 5.
Air proportional counter. J. A. Simpson, Jr. 2,532,956, Dec. 5.
Air supply outlet. R. Simpson. 2,532,737, Dec. 5.
Aligning mechanism control systems dependent upon a time derivative of the displacement. R. A. Polson and C. Dannatt. 2,533,042, Dec. 5.
Alkaline earth sulfonates, Production of. C. A. Cohen. 2,532,997, Dec. 5.
Alkyd resin stabilized with an N-aryihydroxy-3-naphthamide. T. F. Anderson. 2,532,475, Dec. 5.
Alkyl malonamates as azo coupling components in diazotype layers. H. C. Unkauf. 2,533,185, Dec. 5.
Alkylene polyamine derivatives. F. C. Bersworth. 2,532,391, Dec. 5.
α-(phthalimidomethyl-anilino)-anthraquinones and preparing the same. D. I. Randall and E. E. Renfrew, Jr. 2,533,178, Dec. 5.
Aminoalkyl esters of dithienyl aliphatic acids. F. F. Blicke. 2,533,084, Dec. 5.
Aminohydroxybutenes. F. F. Blicke. 2,533,085, Dec. 5.
Ampoule holding rack. T. J. Carski. 2,532,604, Dec. 5.
Anchor for tubing or the like, Hydraulically operated. J. S. Page. 2,532,418, Dec. 5.
Anchorage for cables. W. J. Streader. 2,533,064, Dec. 5.
Antenna, Biconical electromagnetic horn. G. A. Jarvis. 2,532,551, Dec. 5.
Antenna system. O. M. Woodward, Jr. 2,533,078, Dec. 5.
Antiskid device. A. K. Stevens. 2,533,151, Dec. 5.
Antiskid device for motor vehicles. E. J. Hoffman and A. J. Fries. 2,532,309, Dec. 5.
Antislip tread. L. H. Dowling. 2,532,485, Dec. 5.
Aperture meter. W. E. Clark. 2,532,892, Dec. 5.
Apparatus and process for evacuating electronic tubes and the like. M. E. Johnson and H. G. Warren. 2,532,315, Dec. 5.
Apparatus for analyzing fluids by microwave absorption. J. M. Lafferty and A. H. Sharbaugh. 2,532,817, Dec. 5.
Apparatus for applying tension and/or pressure to material. C. C. Martin. 2,533,025, Dec. 5.
Apparatus for cleaning equipment with a chemical agent. P. Greco. 2,532,299, Dec. 5.
Apparatus for coating plates. E. Penker and M. Bulin. 2,532,730, Dec. 5.
Apparatus for cooling milk and for filling milk containers. J. A. Kingston. 2,532,557, Dec. 5.
Apparatus for desiccation by ice sublimation. S. O. Levinson and F. Oppenheimer. 2,533,125, Dec. 5.
Apparatus for drying paper, paperboard, pulp, and the like. R. A. Hayward. 2,532,910, Dec. 5.
Apparatus for making finned tube heat exchangers. J. R. Hayward. 2,532,303, Dec. 5.
Apparatus for moving articles. C. Manaseri. 2,532,849, Dec. 5.
Apparatus for producing alloy ingots. R. K. Hopkins. 2,532,914, Dec. 5.
Apparatus for producing fiber staples. A. J. P. Care. 2,532,660, Dec. 5.
Apparatus for proportioning metaphosphate to a liquid. A. H. Wallentin, H. O. Carlson, and J. H. Vesterlund. 2,532,973, Dec. 5.
Apparatus for scarfing slabs of different widths. J. L. Anderson. 2,532,385, Dec. 5.
Apparatus for sealing-off electric discharge tubes. W. A. Roovers, C. F. Veenemans, and O. L. van Steenis. 2,532,860, Dec. 5.
Apparatus for testing the adhesion of films of coating material. D. M. Williams. 2,533,076, Dec. 5.
Apparatus for the liquid treatment of threads. J. H. Givens, J. Wale, and L. Rose. 2,533,103, Dec. 5.
Apparatus for the production of dot-composed negatives. L. M. van der Rohe and W. Peterhans. 2,532,585, Dec. 5.
Apparatus for treating yarn. H. O. Naumann. 2,532,325, Dec. 5.
Apparatus for winding yarns on cards. M. Nava. 2,533,037, Dec. 5.
Appliance for grinding the contact points of contact breakers. P. S. Paget. 2,532,512, Dec. 5.
Appliance for mending ladders. O. Joho. 2,532,409, Dec. 5.
Applying adhesive to fibrous webs, Method and apparatus for. P. Kilham. 2,533,167, Dec. 5.
Apron tie means assembly. H. W. Jackson and H. B. Goldsmith, Jr. 2,532,499, Dec. 5.
Arbor. C. E. Overton. 2,532,934, Dec. 5.
Arc starting ionizer, Multiple gap. I. W. Cox. 2,533,095, Dec. 5.
Arc welding, Electric. J. M. Tyrner. 2,533,069, Dec. 5.
Arrangement comprising a cathode-ray tube having means for deflecting the cathode-ray beam. W. Six and J. L. H. Jonker. 2,532,738, Dec. 5.
Arrangement for comparing electrical characteristics. C. B. Sheppard. 2,532,736, Dec. 5.
Arranging and feeding apparatus. L. E. Davies. 2,532,760, Dec. 5.
Article carrying device. O. A. Herbert. 2,532,306, Dec. 5.
Article or package carrier. D. C. McKenzie. 2,533,135, Dec. 5.
Artificial leg. A. B. Hanson. 2,533,008, Dec. 5.
Artificial muscle, Electromagnetic. R. Asche and J. J. Hubscher. 2,532,876, Dec. 5.
Artificial respiration by electronic stimulation. S. J. Sarnoff. 2,532,788, Dec. 5.
Aryl diguanamines. J. K. Simons. 2,532,519, Dec. 5.
Assembly of electric explosion initiators. D. D. Huyett. 2,532,770, Dec. 5.
Atomizer, Liquid fuel. D. Meyer. 2,532,851, Dec. 5.
Atomizing by supersonic sound vibrations. T. D. Joeck. 2,532,554, Dec. 5.
Attachment for tractors, Fertilizer sower. F. E. Scott. 2,532,518, Dec. 5.
Automatic control for burst firing. C. A. S. Teece. 2,532,794, Dec. 5.
Automobile door cover. A. F. Biondi. 2,532,989, Dec. 5.
Awning, Metal variable shutter. R. D. Goodwin. 2,532,401, Dec. 5.
Axle, Automobile. J. Castleberry. 2,532,605, Dec. 5.
Azo dyestuff for dyeing animal fibers in shades of brown. H. E. Woodward. 2,532,588, Dec. 5.
Backlash eliminating mechanism. R. E. Price. 2,533,043, Dec. 5.
Baffles between mixing and combustion chambers, Liquid cooled. R. H. Goddard. 2,532,709, Dec. 5.
Bag: *See*—
Shoe bag.
Shopping bag.
Bag for suction cleaners, Dust collecting. J. H. Nuffer. 2,532,933, Dec. 5.
Bagmaking machine. H. L. Reitzes. 2,532,784, Dec. 5.
Baking powder, Pyrophosphate. W. E. Barch. 2,532,281, Dec. 5.
Balanced thrust swivel joint. M. R. Jones. 2,532,669, Dec. 5.
Baler and venting means. S. D. Russell. 2,532,947, Dec. 5.
Bamboo rods or poles, Making split. W. D. Jordan. 2,532,814, Dec. 5.
Band-pass filter. P. S. Carter. 2,532,993, Dec. 5.
Barium titanate-stanic oxide ceramic. A. R. Rodriguez. 2,533,140, Dec. 5.
Beading machine. E. F. Hulbert, Sr. and E. F. Hulbert, Jr. 2,532,844, Dec. 5.
Beam trammel. R. Smith. 2,532,376, Dec. 5.
Bearing. W. J. Parks. 2,532,827, Dec. 5.
Bearing. A. F. Underwood and J. M. Stone. 2,532,795, Dec. 5.
Bed, dresser and davenport, Convertible. W. R. Brown. 2,532,355, Dec. 5.
Bed or body support. S. W. Schenker. 2,532,425, Dec. 5.
Bellows. W. C. Hasselhorn. 2,532,448, Dec. 5.
Belt guide and tensioning device. R. F. Berndt. 2,532,987, Dec. 5.
Benzothiophene anthraquinones, Preparation of. F. Max and W. Schmidt-Nickels. 2,533,171, Dec. 5.
Benzyl penicillin, The production of. H. B. Woodruff and A. H. Larsen. 2,532,980, Dec. 5.
Beta-tertiary-aminoadiponitriles. C. M. Langkammerer. 2,532,561, Dec. 5.

Beverage cooler. J. W. Penning. 2,532,328, Dec. 5.
Beverage making filter. F. D. Wulff. 2,532,688, Dec. 5.
Bib, Baby. W. G. Neiswander. 2,532,932, Dec. 5.
Bicycle pedal adapter. W. C. Hill. 2,533,011, Dec. 5.
Binder, Loose-leaf. H. A. Cherry. 2,532,695, Dec. 5.
Binder, Loose-leaf. L. W. Johnstone and C. E. Gilbert. 2,532,771, Dec. 5.
Bird feeder. L. J. Lajoie and T. F. Rosinski. 2,532,726, Dec. 5.
Bit: *See*—
Self-piloted rotary drill bit.
Blanking and drawing press. F. K. Maussnest. 2,532,320, Dec. 5.
Bleacher structure. J. W. Thompson. 2,532,649, Dec. 5.
Block: *See*—
Building block. Burner block.
Blood clotting preparation. A. Szent-Gyorgyi, K. Laki, and M. Gerendas. 2,532,348, Dec. 5.
Blower, Manually oscillatable and rotatable portable soot. P. G. Handoll and P. R. Bettle. 2,532,447, Dec. 5.
Blowing machine. W. H. Mackey and A. L. Wedebrock. 2,532,318, Dec. 5.
Blowing machine for insulation and the like. A. L. Wedebrock. 2,532,351, Dec. 5.
Body trailer and body hauling apparatus. M. C. Patterson. 2,532,935, Dec. 5.
Boiler and heater, Water. H. E. Woolery. 2,532,527, Dec. 5.
Bone screw and fastening. J. H. Giesen. 2,532,296, Dec. 5.
Bookbinding machine. A. Freundlich. 2,532,443, Dec. 5.
Bottle attachment for measuring doses by tipping. C. J. Romyns. 2,532,787, Dec. 5.
Bottle carrier. M. G. Hall. 2,532,446, Dec. 5.
Bottle carrier. J. K. Laier. 2,532,725, Dec. 5.
Boundary layer remover for airplanes. W. R. Custer. 2,532,482, Dec. 5.
Box: *See*—
Vanity box.
Box and similar container. W. J. Cella. 2,532,833, Dec. 5.
Box and the like and cable clamp for the same, Electric junction. A. L. Smith. 2,532,427, Dec. 5.
Box unit, Collapsible. A. Taylor. 2,532,863, Dec. 5.
Brake: *See*—
Spindle brake.
Brake booster. W. Stelzer. 2,532,060, Dec. 5.
Brake releasing apparatus, Automatic. W. H. Callender and G. S. Cesena. 2,532,357, Dec. 5.
Braking system, Electric. F. McCurtain. 2,532,321, Dec. 5.
Braking system for motor vehicles. L. E. La Brie. 2,532,670, Dec. 5.
Brassière. A. Silvain. 2,533,060, Dec. 5.
Broiler. A. H. Haberstump. 2,532,445, Dec. 5.
Brush and carroting fur on a skin with said brush, Carroting. W. L. Braun. 2,532,991, Dec. 5.
Brush rigging. C. A. Thomas. 2,532,827, Dec. 5.
Brush, Rotary vacuum cleaner. C. H. MacFarland. 2,533,169, Dec. 5.
Building block. D. A. Bridges. 2,532,478, Dec. 5.
Bullet. G. A. Miller, Jr. 2,532,323, Dec. 5.
Bumper construction for loom pickers. W. D. Dodenhoff. 2,532,543, Dec. 5.
Burner: *See*—
Descaling burner. Sheet-metal gas burner.
Multiple combustion cell gaseous fuel burner. Wick type oil burner.
Burner block. E. Blaha. 2,532,990, Dec. 5.
Burner provided with combustion gas recirculating means, Fuel. W. H. Speer. 2,532,740, Dec. 5.
Burner with radiant screen, High primary type gas. C. E. Golden and O. L. Notley. 2,533,104, Dec. 5.
Bushing for link mounted brakes, Rubber. C. E. Bricker and D. D. Neff. 2,533,186, Dec. 5.
Cabinet: *See*—
Filing cabinet. Socket wrench cabinet.
Cable distribution system. J. A. D. Y. Rapp. 2,533,044, Dec. 5.
Cable holder. T. A. Crotty. 2,532,893, Dec. 5.
Cable terminal. D. J. Neale. 2,533,137, Dec. 5.
Cakes with liquid oil, Preparation of. L. G. Trempel and M. E. Frink. 2,532,523, Dec. 5.
Calcium silicate-rubber compositions containing carbonate esters and compounding thereof. F. W. Gage. 2,532,665, Dec. 5.
Calculating device. E. W. Heerich. 2,532,619, Dec. 5.
Calculator, Rhythm cycle. P. L. Morse. 2,532,819, Dec. 5.
Calendar, Perpetual. S. Z. and D. G. Avedikian. 2,532,984, Dec. 5.
Calling line identifier having display device at operator's position. G. T. Baker. 2,532,750, Dec. 5.
Camera, Photographic. C. H. Earhart. 2,533,099, Dec. 5.
Can Opener, Electric. G. R. Drugman. 2,532,898, Dec. 5.
Cap: *See*—
Fountain pen cap.
Cap for collapsible tube, having friction-biased reciprocable closure for the aperture, Apertured. J. V. Zimmerman. 2,532,690, Dec. 5.
Cap for marine oil wells. J. Shannon. 2,532,341, Dec. 5.
Car dumper sampling apparatus. A. Bur. 2,533,090, Dec. 5.
Carbon black, Manufacture of. J. A. Schaeffer. 2,532,789, Dec. 5.
Carbon pile regulator. W. G. Neild. 2,533,038, Dec. 5.
Card, Record. E. F. Johnson. 2,532,365, Dec. 5.
Carriage return mechanism for record making machines. O. W. Swanson. 2,533,153, Dec. 5.
Carrier: *See*—
Article or package carrier. Bottle carrier.
Carrier for a combination hot water bottle, ice bag, and fountain syringe. E. M. Stewart. 2,532,962, Dec. 5.
Carton. W. J. Tyreseck. 2,533,070, Dec. 5.
Cash register, accounting machine, and the like. S. E. Werner. 2,533,075, Dec. 5.
Casing head. G. D. Johnson. 2,532,408, Dec. 5.
Casing members of vacuum cleaners and latches therefor. E. P. Turner. 2,532,432, Dec. 5.
Cast stone units for building walls and laying them in courses. W. E. Kelly. 2,532,922, Dec. 5.
Caster and camber checking equipment. C. C. Aurand and C. H. Watrous. 2,532,749, Dec. 5.
Catalytic condensation of furans with compounds capable of yielding hydrocarbon radicals. H. Pines and J. A. Vesely. 2,532,515, Dec. 5.
Catchup dispenser. F. Damiano. 2,532,484, Dec. 5.
Cathode beam tube. P. K. Weimer. 2,533,073, Dec. 5.
Cathode-ray tube circuit. P. J. H. Janssen. 2,532,720, Dec. 5.
Cathode-ray tube receiving system. K. Schlesinger. 2,532,339, Dec. 5.
Centrifugal separation of sludge-containing liquids. N. E. Svensjö. 2,532,792, Dec. 5.
Chain saw frame. C. V. Wolfe. 2,532,981, Dec. 5.
Chair: *See*—
Swivel chair. Vanity back view chair.
Chair and tray combination. J. E. Huber. 2,532,812, Dec. 5.
Chair construction, High. P. J. Keough. 2,532,556, Dec. 5.
Chair having a tilting seat and back unit. P. A. James. 2,532,453, Dec. 5.
Change-speed gear. J. Selby. 2,533,056, Dec. 5.
Chuck construction. K. W. Tolliver. 2,533,154, Dec. 5.
Chute, Bobbin discharge. K. Kulczycki and W. Lundgren. 2,533,120, Dec. 5.
Cigar holder. J. J. Angert. 2,532,531, Dec. 5.
Cigarette package holder. F. J. Mallet. 2,532,927, Dec. 5.
Circuit: *See*—
Cathode-ray tube circuit. Radio-frequency inverter relay circuit.
Coordinate selecting and lockout circuit. Servomotor circuit.
Flip-flop counter circuit. Sweep-voltage generator circuit.
Gas-filled tube circuit. Voltage phase control circuit.
Oscillation generator circuit.
Punching circuit.
Radar receiver automatic gain control circuit.
Circuit arrangement comprising a cathode-ray tube. Z. van Geider and A. J. W. M. van Overbeek. 2,532,747, Dec. 5.
Circuit arrangement for amplifying ultra high frequency electrical oscillations. K. S. Knol, M. J. O. Strutt, and A. van der Ziel. 2,533,020, Dec. 5.
Circuit arrangement, Tie line. K. L. Burgener. 2,532,889, Dec. 5.
Circuit Breaker, Fluid-blast electric. D. F. Amer. 2,532,529, Dec. 5.
Circuits, Electronic counting. J. W. Kennedy, W. R. Baker, and C. E. Wiegand. 2,532,503, Dec. 5.
Circuits having a full wave alternating voltage output, Modulating. R. C. Goertz. 2,532,297, Dec. 5.
Clamp: *See*—
Notebook clamp.
Clamping mechanism for draw presses. C. G. Ellis. 2,532,663, Dec. 5.
Clasp comprising interlocking members having matching surfaces. G. Snyder. 2,532,680, Dec. 5.
Cleaning device, Windshield. J. B. Sparkman. 2,532,429, Dec. 5.
Clippers, Veneer. S. L. Michael and V. E. Anderson. 2,532,672, Dec. 5.
Clock and loud-speaker unit, Combined. G. O. Tanner. 2,532,963, Dec. 5.
Clock, Electric. T. K. Riggen. 2,532,944, Dec. 5.
Clock mounting means. E. Bourquin. 2,532,599, Dec. 5.
Clothespin. M. O. Nelsen. 2,532,674, Dec. 5.
Clutch: *See*—
Multiple disk type clutch.
Clutch and brake mechanism. J. N. Weiland. 2,532,381, Dec. 5.
Coating device, Metal. C. Batcheller. 2,532,389, Dec. 5.
Cobalt plating by chemical reduction. A. Brenner and G. E. Riddell. 2,532,284, Dec. 5.
Coding means for signaling systems, Electronic. C. Volz. 2,532,870, Dec. 5.
Coin collector apparatus. G. M. Wilcox. 2,532,978, Dec. 5.
Coin rolling machine, Convertible. M. E. Schneider. 2,533,144, Dec. 5.
Colored metallo-α-oximino ketone complex lmages, Preparation of. D. E. Sargent. 2,533,181–2, Dec. 5.
Comb and hairbrush, Combination. L. L. Love. 2,532,505, Dec. 5.
Comb, Teeth-locking. J. Taren and A. Leon. 2,533,067, Dec. 5.
Combustion chamber and turbine arrangement. J. L. Breese. 2,532,831, Dec. 5.

Compact power unit. E. A. Rockwell. 2,532,462, Dec. 5.
Comparator, Frequency. J. F. Allen. 2,532,435, Dec. 5.
Composition for preserving articles of food and the like. C. S. Ferguson. 2,532,489, Dec. 5.
Compositions of matter comprising halogenated organic compounds. E. E. Hardy. 2,532,616, Dec. 5.
Condenser. J. R. Hayward. 2,532,301, Dec. 5.
Condenser means for measuring level conditions. P. L. Bennett and L. A. Bryant. 2,532,883, Dec. 5.
Connector: *See*—
Electrical connector. Track shoe connector.
Self-separating electrical connector.
Connector. M. D. Bergan. 2,533,161, Dec. 5.
Constant leverage engine. J. Riederer. 2,533,046, Dec. 5.
Constructing walls having horizontal and vertical voids. W. R. Mathis. 2,533,131, Dec. 5.
Contact structure, Movable. R. P. Sweger. 2,532,468, Dec. 5.
Contacting solids and gases. G. L. Matheson. 2,533,026, Dec. 5.
Container capping structure. E. M. Enkur, L. F. Pahl, and L. L. Lauve. 2,532,900, Dec. 5.
Container closure. C. J. Yates. 2,533,159, Dec. 5.
Container, dispenser, and lighter, Cigarette. P. J. Zanardo. 2,532,689, Dec. 5.
Container filling machine, Rotatable suction. H. Hannover. 2,533,109, Dec. 5.
Container for injection medicines. H. C. Hagedorn. 2,533,165, Dec. 5.
Container for radioactive samples. J. F. Gifford. 2,533,102, Dec. 5.
Container for railway cars, Refrigerant. K. E. Zeidler. 2,532,473, Dec. 5.
Container with cap locking device. J. Ruetz. 2,532,641, Dec. 5.
Container with window. M. C. Ricciardi. 2,532,857, Dec. 5.
Control and safety device against explosions of tubing and receivers in air compressing plants. E. E. Feneron. 2,532,488, Dec. 5.
Control device for winding machines. E. J. Heizer and M. R. Stuart. 2,532,304, Dec. 5.
Control for motor vehicle transmissions. M. C. Robinson. 2,532,945, Dec. 5.
Control for tandem rotored helicopters. E. Daland and D. N. Meyers. 2,532,483, Dec. 5.
Control of engine cylinder temperatures. R. N. Wallace. 2,533,156, Dec. 5.
Control system for doors. F. S. Jenkins. 2,533,116, Dec. 5.
Controlling yarn. E. St. Pierre. 2,532,467, Dec. 5.
Conveying and heating apparatus, Continuous strand helical. E. T. Lorig. 2,532,562, Dec. 5.
Cooker, Food. T. H. Payne. 2,532,639, Dec. 5.
Cooking machine. L. W. Currier, Jr. 2,532,894, Dec. 5.
Cooler: *See*—
Beverage cooler.
Cooling device for electric discharge tubes. H. Rinia. 2,532,858, Dec. 5.
Cooling hotboxes. G. H. Danis. 2,532,609, Dec. 5.
Coop, Hog. J. Barnhart and G. B. Toney. 2,532,830, Dec. 5.
Coordinate selecting and lockout circuit. G. Hecht. 2,532,718, Dec. 5.
Copyholder. E. L. Elliott. 2,532,765, Dec. 5.
Cord. C. Dreyfus. 2,532,395, Dec. 5.
Core barrel for core drilling, Double tube. J. L. Havlick. 2,532,716, Dec. 5.
Corner structure. E. E. Schlesinger. 2,532,464, Dec. 5.
Corrosion inhibiting compositions. S. C. Johansson. 2,532,407, Dec. 5.
Coupler, Ultra high frequency. O. Lundstrom. 2,532,317, Dec. 5.
Coupling: *See*—
Adjustable coupling. Torque transmitting shaft coupling.
Rotary hydraulic coupling.
Synchromesh coupling.
Cover: *See*—
Automobile door cover. Petri dish cover.
Cover for aircraft Pitot tubes, Automatically releasable. G. R. Larkin. 2,532,316, Dec. 5.
Crane boom mounting. W. S. Burdick and K. Schneider. 2,532,602, Dec. 5.
Crankcase pressure control. R. E. Brown. 2,532,888, Dec. 5.
Crankshaft sleeve. L. F. and M. Hickman. 2,532,912, Dec. 5.
Crop drying apparatus. A. A. Andersen and B. C. Mathews. 2,532,530, Dec. 5.
Crotch for men's underwear, Reinforced. H. Gadalowitz. 2,532,805, Dec. 5.
Curing meat and to processes for producing the curing means. T. D. Hill. 2,532,842, Dec. 5.
Current generation, Electrical alternating. S. R. Montcalm. 2,533,032, Dec. 5.
Cutter: *See*—
Finger nail cutter. Staple fiber cutter.
Damper, Hydraulic. W. M. Backus, Jr., and C. W. Jarvis. 2,532,656, Dec. 5.
Deflection equalising means for shearing combs. E. S. Bartlett. 2,532,476, Dec. 5.
Dehydration of sodium sulfide. J. P. Copes and C. McKinley. 2,533,163, Dec. 5.
Deicing apparatus, Windshield. E. T. Duncan. 2,533,000, Dec. 5.
Dentures, compositions, and methods. H. V. Joy. 2,532,502, Dec. 5.
Descaling burner. C. Mott, A. F. Chouinard, and M. A. Tylutki. 2,532,567, Dec. 5.
Detection apparatus. H. L. Anderson. 2,532,874, Dec. 5.
Determining malposition of vertebrae, Method and apparatus for. H. J. Horner. 2,532,915, Dec. 5.
Determining unknown vibration characteristics, Method and apparatus for visually. J. E. Henabery. 2,533,010, Dec. 5.
Device for attracting attention to billboards. R. G. Reeves. 2,532,572, Dec. 5.
Device for barbecuing, roasting, broiling, and the like. W. G. Alexander. 2,533,080, Dec. 5.
Device for forming trouser cuffs. C. Halek. 2,532,362, Dec. 5.
Device for maintaining reserve supply in liquid supply tanks. E. D. Trom. 2,532,379, Dec. 5.
Device for measuring the distance between the optical centers of two or more lenses or optical systems. T. G. Aulin. 2,532,878, Dec. 5.
Device for pivotally connecting the frame of a road roller with a supporting roll. C. E. Gifford. 2,532,806, Dec. 5.
Device for sanding floors or the like. N. B. Wilson. 2,532,979, Dec. 5.
Device for stacking and wrapping coins. E. W. Carper. 2,532,603, Dec. 5.
Device for suspending clothes and like articles. W. H. Blackburn. 2,533,083, Dec. 5.
Diapositive frame. G. Linser. 2,532,776, Dec. 5.
Diarylmethyl ethers of amino alkanols. J. W. Cusic. 2,532,292, Dec. 5.
Diazotype containing as the azo component a quaternary salt of 2-methyl-6-methoxybenzoselenazole. J. M. Straley. 2,532,744, Dec. 5.
Dielectric test apparatus. A. Rufolo. 2,532,336, Dec. 5.
Dishwashing machine having an extensible rotary brush for receptacles. L. A. Loeb. 2,532,925, Dec. 5.
Disk brake with compensating piston, Fluid pressure operated. B. E. Clark. 2,533,093, Dec. 5.
Disk plow, Ditchbank. F. J. Martin. 2,533,129, Dec. 5.
Disk sharpener. C. R. Harsh. 2,533,009, Dec. 5.
Dispenser: *See*—
Catchup dispenser.
Dispenser and applier, Tape. S. H. Bobrov. 2,532,596, Dec. 5.
Disperser and applier, Tape. S. H. and S. A. Bobrov. 2,532,597, Dec. 5.
Dispensing apparatus, Coin. W. J., A. J., and W. V. Weirich. 2,532,976, Dec. 5.
Dispensing apparatus for dispensing measured amounts of granular material. L. A. Corkins. 2,532,698, Dec. 5.
Display rack. R. J. Broersma. 2,532,600, Dec. 5.
Disposal of waste pickle liquor. S. S. Helde. 2,532,548, Dec. 5.
Door. G. W. Carr. 2,532,758, Dec. 5.
Door and a remote control therefor, Garage. J. C. Kaytor. 2,532,722, Dec. 5.
Door construction, Airplane hangar. G. W. Merritt. 2,532,456, Dec. 5.
Door operating mechanism, Furnace. E. A. Hanff. 2,532,841, Dec. 5.
Drainpipe filter. A. Batt, Jr. 2,532,388, Dec. 5.
Drainer with rotatable drum and encircling belt for confining cans therebetween. R. B. Bentley. 2,532,594, Dec. 5.
Drapery fixture. M. B. Wright. 2,532,653, Dec. 5.
Draw of synthetic funicular structures, Method and apparatus for the two-stage. H. F. Hume. 2,533,013, Dec. 5.
Drawer, Filing cabinet. J. R. Jones. 2,532,623, Dec. 5.
Drawer slide actuating mechanism for cabinets and the like. G. V. Jakeway. 2,532,405, Dec. 5.
Drive for seismographic record strips. R. L. Henson, Jr. and J. W. Millington. 2,532,911, Dec. 5.
Driving of motion-picture film. R. F. A. V. d'Avitaya. 2,532,542, Dec. 5.
Drum, Rotary screening. K. R. Lindblad. 2,532,415, Dec. 5.
Dual seal closure. C. P. Krupp. 2,532,724, Dec. 5.
Dyeing acrylonitrile polymers by applying an insoluble azo dyestuff and then heating. R. B. Baker. 2,532,437, Dec. 5.
Edge finder. J. G. Radtke. 2,533,198, Dec. 5.
Ejector for wrapping machines. P. Pierce, Jr. 2,533,177, Dec. 5.
Electric cutout. B. R. Hermann and F. L. Flanagan. 2,532,811, Dec. 5.
Electric lamp. L. Rosenfeld. 2,532,821, Dec. 5.
Electric relay. A. C. Kircher. 2,532,624, Dec. 5.
Electric switch. H. E. Heller. 2,532,305, Dec. 5.
Electrical apparatus. C. W. Sherwin and H. A. Straus. 2,532,576, Dec. 5.
Electrical connector. S. E. Kane. 2,532,454, Dec. 5.
Electrical moisture meter. V. J. Schaefer. 2,532,822, Dec. 5.
Electrode construction for electrical precipitators. W. M. Schmidt. 2,532,734, Dec. 5.
Electrodepositing iron. E. H. Konrad and W. E. C. Eustis. 2,532,629, Dec. 5.
Electrolytic processing apparatus. C. W. Hangosky and C. S. Hornberger. 2,532,908, Dec. 5.

Electromagnetic pump. J. W. Dickey and N. S. Trout, Jr. 2,533,164, Dec. 5.
Electron discharge tubes, Manufacture of. J. L. H. Jonker. 2,532,846, Dec. 5.
Electronic interrupter. W. P. Menkhaus. 2,532,508, Dec. 5.
Electronic tolerance monitor, Automatic. N. H. Taylor and R. M. Wilmotte. 2,532,964, Dec. 5.
Electroplating rack. M. S. Schneider. 2,532,516, Dec. 5.
Elevating mechanism for operating and examining tables. H. R. Shampaine. 2,532,677, Dec. 5.
Elevator control system. L. J. Guay. 2,532,809, Dec. 5.
Ellipse generator. P. F. Boehm. 2,532,353, Dec. 5.
Elliptical polarization electromagnetic energy radiation system. C. E. Smith. 2,532,428, Dec. 5.
Enameling. W. H. Pfeiffer. 2,532,640, Dec. 5.
Enclosed resilient wheel. J. M. MacLean. 2,532,319, Dec. 5.
Engine : *See*—
Constant leverage engine.
Engine control mechanism. J. W. Rhodes. 2,533,180, Dec. 5.
Engine starter control switch. K. P. Tota. 2,532,968, Dec. 5.
Epicyclic drive. L. H. Browne. 2,532,992, Dec. 5.
Evener for cotton pickers. T. S. Ramsdell. 2,532,330, Dec. 5.
Explosion operated pump. I. C. Miller. 2,532,635, Dec. 5.
Exterminator protecting device. W. J. Stover. 2,532,681, Dec. 5.
Extinguishing film fire. B. B. Savage. 2,532,949, Dec. 5.
Extractor : *See*
Fishhook extractor. Nail extractor.
Facsimile system having rotating scanner moving longitudinally within stationary transparent drum. C. J. Young. 2,532,799, Dec. 5.
Fastener : *See*—
Paper file fastener.
Fastener. O. J. Huelster. 2,533,115, Dec. 5.
Feeder : *See*—
Bird feeder.
Feeding device for nonfree-flowing materials in bulk with adjustable flow control plate and elongated handle therefor. E. J. Vaglm. 2,532,584, Dec. 5.
Feeler for elastic waves. M. Meunier. 2,532,507, Dec. 5.
Fibrin clots and preparing the same. J. D. Ferry and P. R. Morrison. 2,533,004, Dec. 5.
Fibrous structures and obtaining same, Water-repellent. K. L. Berry. 2,532,691, Dec. 5.
File, Phonograph record. J. W. Mossett. 2,532,673, Dec. 5.
Filing cabinet. J. F. Reimer. 2,532,942, Dce. 5.
Filling and vibrating device having an elongated vibratory bag member, Combined. R. E. Williams. 2,533,157, Dec. 5.
Filling machine, Package. W. E. Higginbottom. 2,532,913, Dec. 5.
Filter : *See*—
Band-pass filter. Drainpipe filter.
Beverage making filter.
Filter replacement construction for vacuum cleaners. E. P. Sennè. 2,533,057, Dec. 5.
Finger nail cutter. H. K. Perrill. 2,532,370, Dec. 5.
Fire-extinguishing apparatus. H. E. Bedford and A. Hall. 2,532,986, Dec. 5.
Fishhook extractor. H. Svenson. 2,533,152, Dec. 5.
Fish lure. L. W. Baker. 2,532,879, Dec. 5.
5-bromo-2,3,4,5-tetrachloropentadienoic acid. E. T. McBee and J. S. Newcomer. 2,533,134, Dec. 5.
Fixture for grinding cutters. R. Sabatini. 2,532,337, Dec. 5.
Flip-flop counter circuit. E. Eberhard. 2,533,001, Dec. 5.
Fluid distributing or collecting system for water softeners, filters, and the like. C. Hungerford, Jr. 2,532,918, Dec. 5.
Fluid storage tank. F. L. Plummer. 2,532,854, Dec. 5.
Flushing system for toilets, Dual. D. J. White. 2,532,977, Dec. 5.
Focusing objective. J. E. Harvey. 2,532,300, Dec. 5.
Folding extension device. H. M. Gaun. 2,532,840, Dec. 5.
Folding paper boxes, Method and mechanism for. E. G. Staude. 2,532,522, Dec. 5.
Food conditioner, Bottom dispensing steam. C. I. Van Cleve. 2,532,868, Dec. 5.
Football practice apparatus. R. H. Banbury. 2,532,880, Dec. 5.
Footrest for chairs and invalid beds, Adjustable. R. R. Freund. 2,532,705, Dec. 5.
Forming apertures in elastic articles. F. Slusher. 2,532,739, Dec. 5.
Forming porous nodules. E. J. Maust and C. A. Hollingsworth. 2,533,027, Dec. 5.
Fountain pen cap. M. S. Baker and R. W. Randolph. 2,533,082, Dec. 5.
Frame : *See*
Chain saw frame. Loom frame.
Diapositive frame.
Frame for modifying lawn mower. R. J. Turman. 2,532,796, Dec. 5.
Frame for typewriters, Auxiliary. H. C. Yaeger. 2,533,138, Dec. 5.
Friction shock absorber. S. B. Haseltine. 2,532,363, Dec. 5.
Friction shock absorber for railway car trucks. G. E. Dath. 2,532,358, Dec. 5.
Fuel control valve. J. L. Junkin. 2,532,847, Dec. 5.
Fuel tank bowl connection. A. H. Berger. 2,532,595, Dec. 5.
Fumigating compositions, Pesticidal or insect-repellant. J. Taylor and J. M. Holm. 2,532,349, Dec. 5.
Furfuralacetofuran, Hydrogenated. K. Alexander. 2,532,279, Dec. 5.
Furnace : *See*—
Phosphorus combustion furnace.
Fuse, Hydrostatic. G. O. Rockwell. 2,532,645, Dec. 5.
Game apparatus. J. C. Kocl. 2,532,628, Dec. 5.
Garment. A. and R. M. Peltzman. 2,533,039, Dec. 5.
Garment. F. Sider. 2,532,375, Dec. 5.
Garment hanger. L. L. Valentine. 2,532,969, Dec. 5.
Garment with breathing sleeve action. I. I. Flasher. 2,532,702, Dec. 5.
Gas-filled tube circuit. B. F. Lewis. 2,532,728, Dec. 5.
Gasket, Flanged joint sealing. W. W. Chupp. 2,532,891, Dec. 5.
Gate control for pulse-echo systems, Photoelectric. J. Millman. 2,532,566, Dec. 5.
Gauge : *See*—
Liquid seal level gauge.
Gauging apparatus, Track. E. M. Thornley. 2,532,745, Dec. 5.
Gear : *See*—
Change-speed gear.
Gear for motor vehicles or the like, Differential. A. J. Butterworth. 2,532,757, Dec. 5.
Gear reduction mechanism for press brakes. L. R. Williamson. 2,533,077, Dec. 5.
Generator : *See*—
Ellipse generator. Oscillation generator.
Gluing and folding paper boxes, Method and machine, for. F. H. Burgess. 2,532,479, Dec. 5.
Glutamic acid, Manufacture of. F. A. Hoglan. 2,533,114, Dec. 5.
Governor for motors, Speed. C. H. Sparklin. 2,532,345, Dec. 5.
Grate and burner bowl structure for gas cookstoves, Combination. H. M. Reeves. 2,532,461, Dec. 5.
Grille, Air controlling. A. B. Newton. 2,533,175, Dec. 5.
Grinder and polisher, Belt. L. D. Jensen. 2,532,500, Dec. 5.
Guard, Animal. W. A. Letson. 2,533,168, Dec. 5.
Guard device for syringes for use with heat-fluent materials. H. F. Boeger. 2,532,598, Dec. 5.
Guard or brace, Knee. R. O. S. Shook. 2,532,955, Dec. 5.
Guard, Shuttle. H. E. Schaller. 2,532,950, Dec. 5.
Guard, Welder's ear. V. G. Oaks. 2,532,852, Dec. 5.
Gyrostabilizer. J. S. Rhyne. 2,532,333, Dec. 5.
Gyrostabilizer. J. S. Rhyne and R. E. Holmes. 2,532,334, Dec. 5.
HF extraction of high sulfur gas oil. J. J. Giachetto, J. F. Snuggs, and J. A. Bock. 2,532,492, Dec. 5.
Halogenated hydrocarbons, Production of. L. Schmerling. 2,533,052, Dec. 5.
Handset unit for timepieces. W. F. Riemer. 2,532,943, Dec. 5.
Handle for knives, Removable. B. D. Jacobson. 2,533,014, Dec. 5.
Handle for mattresses and the like. M. Bechik. 2,532,657, Dec. 5.
Hanger : *See*—
Garment hanger. Iron hanger.
Harvesting machine, Cane. T. A. Guild. 2,532,904, Dec. 5.
Harvesting machine, Potato. C. E. Johnson. 2,532,314, Dec. 5.
Heat exchange unit. H. F. Buschow. 2,532,288, Dec. 5.
Heat exchangers, Making. J. R. Hayward. 2,532,302, Dec. 5.
Heat-treating solids. P. H. Royster. 2,532,335, Dec. 5.
Heat-treating solids. P. H. Royster. 2,533,142, Dec. 5.
Heatable water tank. D. J. and P. J. Donahoe. 2,532,999, Dec. 5.
Heater : *See*—
Pebble heater.
Heating. D. Dalin. 2,532,608, Dec. 5.
Heating and ventilating apparatus. R. D. Beatty, Jr. 2,532,882, Dec. 5.
Heating and ventilating system. G. J. Fairbanks and V. N. Tramontini. 2,532,486, Dec. 5.
Heating device, Electric steam. C. A. Steen. 2,533,063, Dec. 5.
Heating system, Liquid. C. N. Roswell. 2,533,141, Dec. 5.
Heating system, Steam. A. F. Hubbard. 2,532,550, Dec. 5.
Hedge or grass trimmer, Motor operated. P. De Young. 2,532,982, Dec. 5.
Heel, Cushion. S. Stoiner. 2,532,742, Dec. 5.
Helicopter having adjustable rotors and stabilizing fins. H. G. Traver. 2,532,683, Dec. 5.
Herbicidal composition. L. Z. Jasion and L. T. Eby. 2,533,015, Dec. 5.
High-frequency apparatus for drying materials electrostatically. J. E. Phillips, Jr. 2,532,460, Dec. 5.
Highly corrected four component objective lens. J. G. Baker. 2,532,752, Dec. 5.
Highly corrected objective having two inner divergent meniscus components between collective components. J. G. Baker. 2,532,751, Dec. 5.
Hinge, Adjustable. N. R. Kamfjord. 2,532,772, Dec. 5.
Hinge structure for spraying attachments. O. A. Clark and O. D. Hughes. 2,532,996, Dec. 5.
Hitch. C. E. Newkirk. 2,532,637, Dec. 5.

Holder : *See*—
Cable holder. Photographic film holder.
Cigar holder. Requisition holder.
Cigarette package holder. Spool and scissors holder.
Key identification holder. Toilet paper holder.
Line holder.
Holder and starter, Screw. D. D. Vertin. 2,532,972, Dec. 5.
Holder for caster sockets, Replaceable. A. Posch. 2,532,937, Dec. 5.
Holder supported and clamped between vise jaws, Work. C. M. Schmitt. 2,532,952, Dec. 5.
Hose, Heated. W. G. Chausse. 2,532,995, Dec. 5.
Hot dip tinning. H. C. Rodgers. 2,533,048, Dec. 5.
Hydantoin formaldehyde resins, Production of. A. F. Chadwick. 2,532,278, Dec. 5.
Hydraulic control valve. J. J. Slomer. 2,532,343, Dec. 5.
Hydrazo esters. P. J. Flory and N. Rabjohn. 2,533,189, Dec. 5.
Hydrocarbon conversion catalyst, Preparation of a. G. M. Webb and R. W. Moehl. 2,532,525, Dec. 5.
Hydrocarbon conversion in pebble heaters. H. A. Dutcher. 2,532,613, Dec. 5.
Hydrocarbon synthesis. A. Voorhies. 2,533,072, Dec. 5.
Hydrocarbosilicon isocyanates. D. X. Klein. 2,532,559, Dec. 5.
Hydrochlorides of streptomycin oxime and streptomycin amine. N. G. Brink and K. Folkers. 2,532,393, Dec. 5.
Hydrogen-carbon monoxide mixtures, Method and apparatus for making. J. A. Phinney. 2,532,514, Dec. 5.
Hydrogenation of dicyanobutene to adiponitrile. L. E. Remilly. 2,532,312, Dec. 5.
Hydrogenation of dihydromucononitrile to adiponitrile, Gas phase. B. W. Howk and M. W. Farlow. 2,532,311, Dec. 5.
Hydrolysis of vinyl ethers. C. McKinley. 2,533,172, Dec. 5.
Hydroxymethylthianaphthene. F. F. Blicke. 2,533,086, Dec. 5.
Indexing mechanism, Cumulative. G. A. Hale. 2,532,906, Dec. 5.
Indicating device. W. D. Van Dyke. 2,532,970, Dec. 5.
Indicator : *See*—
Thermally responsive indicator.
Indicator and control device. C. F. Thiele. 2,533,068, Dec. 5.
Indicator for battery cells, Nonoverfill. D. M. Simpson. 2,532,520, Dec. 5.
Inhaler. J. M. Benson. 2,532,282, Dec. 5.
Inserter or remover for thumbtacks. A. C. Hayden. 2,533,112, Dec. 5.
Installing electric cable systems, Method and apparatus for. R. P. Lapsley. 2,532,504, Dec. 5.
Instrument, Angle layout and checking. O. D. Premo. 2,532,329, Dec. 5.
Instrument, Compound indicating. C. W. Cochran, Jr. 2,532,290, Dec. 5.
Instrument for craft and pilot guidance, Navigating. R. J. Herbold. 2,532,402, Dec. 5.
Instrument for setting cutting tools, Gauging. F. Lustrik. 2,533,024, Dec. 5.
Instrument, Pressure sensitive moisture test. M. L. McBrayer. 2,532,929, Dec. 5.
Intaglio or gravure printing plates, Making. W. H. Falconer and L. C. Estler. 2,532,701, Dec. 5.
Internal bracing for liquid storage tanks. F. L. Plummer. 2,533,041, Dec. 5.
Iron hanger. S. Kravitz. 2,532,848, Dec. 5.
Iron powder, Production of. H. H. Cudd and E. J. Freeman. 2,533,096, Dec. 5.
Jewel-setting tool. L. Rigney. 2,532,423, Dec. 5.
Joint : *See*—
Balanced thrust swivel joint. Safety joint.
Quick-disconnect duct joint. Union and expansion joint.
Universal joint.
Journal box dust guard, Railway. J. J. Hennessy. 2,532,449, Dec. 5.
Journal box lid. N. H. Arnold. 2,532,436, Dec. 6.
Juicer, Citrus fruit. R. Polk, Sr., and R. Polk, Jr. 2,533,139, Dec. 5.
Key identification holder. W. Goldsmith. 2,533,006, Dec. 5.
Knitting machine, Warp. F. C. Sorton. 2,533,061, Dec. 5.
Lamp : *See*—
Electric lamp.
Temperature calibrated metal vapor discharge lamp.
Landing system for aircraft, Altitude corrected. J. D. Peterson. 2,532,936, Dec. 5.
Latch : *See*—
Night latch.
Lather-producing device. R. Miller. 2,532,565, Dec. 5.
Laundry drying rack. E. H. Prager. 2,532,938, Dec. 5.
Lavatory for articulated beds, Adjustable. R. R. Freund. 2,532,706, Dec. 5.
Lawn mower. E. R. Sawtelle. 2,532,733, Dec. 5.
Lawn mower construction. C. L. Hussey and F. T. Green. 2,532,813, Dec. 5.
Leakage detector for Diesel engines, Fuel oil. L. W. Metzger. 2,533,195, Dec. 5.
Leather splitting machine. H. Fehlmann. 2,532,398, Dec. 5.
Lens adjusting mechanism. J. B. Walker. 2,532,685, Dec. 5.
Lens adjusting mechanism for cameras. J. B. Walker. 2,532,684, Dec. 5.
Lifter : *See*—
Loom harness lifter.
Lifting device, Aerodynamic. C. Dubost. 2,532,899, Dec. 5.
Lifting device, Fluid operated. W. W. Sloane. 2,532,342, Dec. 5.
Light fixture. P. J. Adinamis and S. A. Bennett. 2,532,800, Dec. 5.
Lighter, Pocket. E. Tigges. 2,532,650, Dec. 5.
Lighting and launching device, Fusee. J. J. Glynn. 2,532,901, Dec. 5.
Lighting system for aircraft landing strips, Continuous. C. A. Bigelow. 2,532,988, Dec. 5.
Line Holder. P. M. D'Amico. 2,532,394, Dec. 5.
Line tracker control. E. Rathje, Jr. 2,532,421, Dec. 5.
Liquid feeding system. J. L. Ray. 2,532,856, Dec. 5.
Liquid seal level gauge. H. A. Quist. 2,532,940, Dec. 5.
Lithographic printing, Method and plate for. W. C. Toland and M. H. Hamilton. 2,532,866, Dec. 5.
Locating welds in hollow metal bodies, Method and apparatus for. C. E. Boucher. 2,532,536, Dec. 5.
Lock : *See*—
Piston lock.
Lock for doors and the like. F. P. Fernandez. 2,532,399, Dec. 5.
Lock for swinging doors, Portable. B. N. Wickwire. 2,532,586, Dec. 5.
Lock for window sashes, Safety. E. A. Barnes. 2,532,881, Dec. 5.
Lock release in railway signaling systems, Approach. I. F. Cadman. 2,532,832, Dec. 5.
Lock screw, Special. R. L. Kindsvatter. 2,532,815, Dec. 5.
Lock slider, Automatic. L. H. Morin. 2,533,034, Dec. 5.
Loom frame. R. G. Mallard and E. H. Ashton. 2,533,128, Dec. 5.
Loom harness lifter. P. T. Hipp. 2,532,496, Dec. 5.
Lot curbing, Cemetery. F. S. Walker. 2,532,524, Dec. 5.
Loud-speaker structure adapted for ready assembly, Permanent magnet electrodynamic. S. E. Levy. 2,532,414, Dec. 5.
Lubricator : *See*—
Air-line lubricator.
Machine and method of forming a package. M. Wagner. 2,532,871, Dec. 5.
Machine for assembling Venetian blinds. R. D. and F. E. Edwards. 2,532,294, Dec. 5.
Machine for enabling systematized customer notification service. E. F. Johnson. 2,532,364, Dec. 5.
Machine for filling cans with paste having a plunger with paste suction relief blades. H. W. MacKinnon. 2,532,777, Dec. 5.
Machine for smoothing or ironing leather, particularly shoe sole leather. A. Bučck. 2,532,601, Dec. 5.
Machine supporting assembly for business machines. W. H. von Hacht. 2,533,155, Dec. 5.
Magnesium silicate titanate phosphor. F. A. Kröger and J. Broos. 2,532,774, Dec. 5.
Magnet structure for loud-speakers. S. E. Levy. 2,532,413, Dec. 5.
Making an article having a porous inner part and a molded cover thereon. T. L. Fawick. 2,532,839, Dec. 5.
Mandrel, Honing. J. Sunnen. 2,532,682, Dec. 5.
Manually controlled soap press. J. Garvey. 2,532,666, Dec. 5.
Mat, Stereotype. A. W. Schorger. 2,533,145, Dec. 5.
Match package, Pull. J. A. Buick. 2,532,440, Dec. 5.
Material breaking shell. R. Spencer. 2,532,578, Dec. 5.
Means to support portable loud-speakers. W. Borberg. 2,532,692, Dec. 5.
Measuring and controlling apparatus, Frequency responsive. R. F. Wild. 2,532,872, Dec. 5.
Measuring machine, Belt. U. C. Haren. 2,532,715, Dec. 5.
Measuring system, Electric. H. Ziebolz. 2,533,079, Dec. 5.
Measuring wheel alignment. J. H. Bender and D. H. Shooter. 2,532,593, Dec. 5.
Meat package and making the same. J. G. Saunders. 2,533,051, Dec. 5.
Mechanical hand. T. B. Sansbury. 2,532,732, Dec. 5.
Mechanism for addressing and applying postage stamps to mailing pieces. E. F. Johnson. 2,532,366, Dec. 5.
Mechanism for straining paint and the like. H. Lamb. 2,532,560, Dec. 5.
Metal-arc welding, Constant-potential submerged-melt. H. E. Kennedy. 2,532,411, Dec. 5.
Metal-arc welding process, Inert monatomic gas shielded. H. E. Kennedy. 2,532,410, Dec. 5.
Meter : *See*—
Aperture meter. Photoelectric exposure meter.
Electrical moisture meter.
Meter provided with portable stroboscopic device, Standard electric. G. E. Maillat. 2,532,416, Dec. 5.
Metering, including selection of the meter prior to signaling the operator, Party line. C. E. Lomax. 2,532,926, Dec. 5.
Methods and flame generating apparatus for spectrophotometric quantitative analysis. T. E. Welchselbaum. 2,532,687, Dec. 5.

Methylchlorosilanes, Production of. D. L. Bailey and G. H. Wagner. 2,532,387, Dec. 5.

Microphone with opposite electrodes being of varying and constant curvature. R. R. Stevens. 2,532,741, Dec. 5.

Mitten, Massage. I. Moscowitz. 2,533,036, Dec. 5.

Mixing device for gas burners. L. Lientz. 2,532,671, Dec. 5.

Molded article. L. Daly. 2,532,442, Dec. 5.

Molding of plastics. J. Johnson. 2,532,501, Dec. 5.

Molding process, Continuous wax. R. G. Atkinson. 2,532,280, Dec. 5.

Monohalogalkanes, Production of. L. Schmerling. 2,533,053, Dec. 5.

Monorail wheel. P. S. Combs. 2,532,661, Dec. 5.

Motor and generator, Electric. J. E. G. and J. V. Eurich. 2,532,700, Dec. 5.

Motor tool. H. W. Schumann. 2,532,823, Dec. 5.

Mounting: *See*—
- Crane boom mounting.
- Saddle mounting.
- Resilient mounting.

Mounting for overhead lighting fixtures. E. A. Zuley. 2,532,528, Dec. 5.

Mounting for percussion drills, Feed screw. W. G. Smith. 2,532,344, Dec. 5.

Mounting for reading glasses or the like. W. Auer. 2,532,877, Dec. 5.

Mounting for semirimless spectacles, Lens. R. F. E. Stegeman. 2,532,959, Dec. 5.

Mounting for wire recorder supply spools. C. B. Dale. 2,532,541, Dec. 5.

Mounting structure for bearings. W. J. Parks. 2,532,779, Dec. 5.

Mower. P. R. Schroeppel. 2,532,426, Dec. 5.

Multigrid electron discharge tube. A. J. W. M. van Overbeek and J. Dorrestijn. 2,532,869, Dec. 5.

Multiple combustion cell gaseous fuel burner. K. A. Scharbau and A. Stadler. 2,533,143, Dec. 5.

Multiple disk type clutch. W. E. Melegan and A. W. Eldean. 2,533,194, Dec. 5.

Multiple switch. J. C. Kocl. 2,532,627, Dec. 5.

N-4-succinylsulfanilamidodiazines. M. L. Moore. 2,533,033, Dec. 5.

Nail extractor. A. A. Vazquez. 2,532,474, Dec. 5.

Navigation system. L. A. Warner. 2,532,974, Dec. 5.

Neptunium trifluoride, Preparation of. S. Fried and N. R. Davidson. 2,532,707, Dec. 5.

Nickel plating by chemical reduction. A. Brenner and G. E. Riddell. 2,532,283, Dec. 5.

Night latch. A. F. Licktelg. 2,532,630, Dec. 5.

Night latch. A. F. Licktelg. 2,533,023, Dec. 5.

Notebook clamp. R. M. Faulkner. 2,532,487, Dec. 5.

Novelty Candy containing. J. H. Millstein. 2,532,729, Dec. 5.

Nozzle for two combustion liquids, Expanded conical. R. H. Goddard. 2,532,711, Dec. 5.

Nuclear halogenation of thiophene. L. W. Devaney. 2,533,098, Dec. 5.

Nylon immunized against dyes by sulfurized phenols. W. Flitzel, H. M. Hemmi, K. Hofer, and A. Mikula. 2,533,100, Dec. 5.

Obtaining vinyl chloride styrene polymers. A. W. Larchar. 2,532,727, Dec. 5.

Odds computing means for race totalizators. E. T. Both. 2,532,693, Dec. 5.

Odograph. A. G. McNish and B. Tuckerman. 2,533,029, Dec. 5.

Oleomargarine package. L. Peters. 2,532,513, Dec. 5.

1-methyl-3-piperidylmethyl phenyl(2-thienyl) acetate, its salts and production thereof. R. F. Feldkamp. 2,533,002, Dec. 5.

1-methyl-3-piperidylmethyl 3-hydroxy-2-phenylbutanoate, its salts and production thereof. R. F. Feldkamp. 2,533,003, Dec. 5.

1,6 hexanediamine derivatives. J. E. Castle. 2,532,277, Dec. 5.

Open bottom deposit and collection receptacle. J. L. Cahill. 2,532,289, Dec. 5.

Opener, Can. B. H. Johnson. 2,532,553, Dec. 5.

Opener having pivoted hammer, Egg. R. A. Haegele. 2,533,007, Dec. 5.

Optical coatings. Method and apparatus for producing. O. van Leer and M. A. Zook, Jr. 2,532,971, Dec. 5.

Ore concentrator, Rotary. A. J. Weinig. 2,533,074, Dec. 5.

Organo silicon derivatives of cellulose. M. J. Hunter. 2,532,822, Dec. 5.

Oscillation generator. O. L. MacSorley. 2,532,455, Dec. 5.

Oscillation generator circuit. D. L. Christenson. 2,532,834, Dec. 5.

Oscillator, Magnetron. E. Everhart. 2,532,545, Dec. 5.

Oxidation of saturated aliphatic hydrocarbons with formation of aldehydic compounds, Limited. F. M. McNall. 2,532,930, Dec. 5.

Oxide particles, Preparation of inorganic. J. Hoekstra. 2,532,497, Dec. 5.

Oxybicyclo (4.1.0.) hepta-2,4-diene-7-carboxylic esters. N. E. Searle. 2,532,575, Dec. 5.

Packer for casing heads, Protecting. D. U. Shaffer. 2,532,059, Dec. 5.

Paintbrush. G. S. Pettengill. 2,532,780, Dec. 5.

Paint can attachment. E. C. Day. 2,532,895, Dec. 5.

Paper file fastener. F. L. Innacelli. 2,532,313, Dec. 5.

Paper yarn, Making. H. D. Kitchen. 2,532,923, Dec. 5.

Para-xylene, Production and recovery of. S. F. Birch, F. A. Fidler and J. N. Haresnape. 2,532,276, Dec. 5.

Pebble heater. J. F. Church. 2,532,606, Dec. 5.

Pencil, Push-cap operated. V. Votruba. 2,532,748, Dec. 5.

Pencil with screw feed and hopper type magazine, Mechanical. B. D. Smith. 2,532,791, Dec. 5.

Perforating and closing device. P. Monnett. 2,532,509, Dec. 5.

Pest control compositions containing beta-acyl acrylates. J. C. Thomas. 2,532,579, Dec. 5.

Pest control compositions for the control of bacteria and fungi containing 1,2-diacylethylene. J. E. Kirby. 2,532,558, Dec. 5.

Petri dish cover. J. H. Brewer and T. J. Carski. 2,533,088–9, Dec. 5.

Phase monitor. C. X. Castle. 2,532,890, Dec. 5.

Phenylmercaptoacrylates and phenylmercaptomaleates. W. J. Croxall and L. R. Freimiller. 2,532,291, Dec. 5.

Phosphate glass, Colored. W. H. Armistead. 2,532,386, Dec. 5.

Phosphorus combustion furnace. C. J. McFarlin. 2,532,322, Dec. 5.

Photoelectric exposure meter. R. S. Norman. 2,532,417, Dec. 5.

Photographic film holder. D. M. Ghrist. 2,533,101, Dec. 5.

Piano, Vertically stringed grand. A. P. Brown. 2,532,286, Dec. 5.

Pickup apparatus having a removable cartridge, Phonograph. H. B. Spiegel. 2,532,377, Dec. 5.

Picture-taking and finishing apparatus, Automatic. W. Rabkin, A. Lissiansky, and A. Sebestyen. 2,532,855, Dec. 5.

Pigmented resins, Producing. H. A. Pace. 2,533,196, Dec. 5.

Pipe: *See*—
- Smoking pipe.
- Thermal insulated pipe.

Piston lock. F. Halward. 2,532,768, Dec. 5.

Plow, Rotary. E. L. Rose. 2,532,424, Dec. 5.

Plural scale telemetering indicating system. L. M. Campani. 2,533,091, Dec. 5.

Plywood. W. L. Alderson, Jr. 2,532,983, Dec. 5.

Polishing machine. M. V. Triggs. 2,532,581, Dec. 5.

Polyesters, Polymerizable. H. A. Hoppens. 2,532,498, Dec. 5.

Polymerizing olefins. S. S. Shaffer and B. F. Armendt. 2,533,058, Dec. 5.

Polymerizing water-soluble polyacrylamides and polyalpha-substituted acrylamides. G. D. Jones. 2,533,166, Dec. 5.

Posthole digger. C. B. Leavengood. 2,533,123, Dec. 5.

Post puller and jack, Combination. P. and M. L. Baldwin. 2,532,533, Dec. 5.

Power transmission. J. Robinson and C. V. Losey. 2,533,047, Dec. 5.

Power transmission device. W. E. Looney. 2,533,126, Dec. 5.

Power unit for plows, Detachable. W. H. Silver and J. I. Cantral. 2,532,577, Dec. 5.

Precipitation process and apparatus therefor. L. G. Stang, Jr. 2,533,149, Dec. 5.

Press: *See*—
- Blanking and drawing press.
- Rotary multicolor printing press.
- Manually controlled soap press.
- Scarf joint gluing press.

Press with auxiliary pump in cooling by-pass, Hydraulic. R. K. Sedgwick. 2,532,735, Dec. 5.

Pressing machine, Garment. S. T. De Vitto. 2,533,183, Dec. 5.

Pressure booster. F. M. Slater. 2,532,679, Dec. 5.

Pressure testing apparatus, Hydrostatic. C. C. Sherer, J. M. Koontz, and R. H. Hoefler. 2,532,954, Dec. 5.

Pretreatment of hydrocarbon synthesis catalysts. J. P. Hogan. 2,532,621, Dec. 5.

Preventing the sticking of polymers to drying, etc., surfaces. J. H. Bannon and S. C. Lane. 2,532,985, Dec. 5.

Preventing theft of cycles. M. G. Theodorackis. 2,532,864, Dec. 5.

Printing plate, Lithographic. W. C. Toland, A. P. Reynolds, and M. H. Hamilton, 2,532,865, Dec. 5.

Printing surface, Preparation of a. C. W. Bennett and W. F. Alexander. 2,532,390, Dec. 5.

Process to provide plastic articles with printing. L. Rado. 2,532,941, Dec. 5.

Projector with falling head for striking a ball, Simulated golf game. G. H. Severin. 2,532,646, Dec. 5.

Propeller, Feathering reversible. W. H. Petersen. 2,532,371, Dec. 5.

Propeller mechanism for boats with eccentrically mounted shaft housings, Outboard. A. W. Wanzer. 2,532,470, Dec. 5.

Protective device. E. C. Brill. 2,532,285, Dec. 5.

Protein artificial filamentary products, Production of insolubilized. R. H. K. Thomson and W. A. Caldwell. 2,532,350, Dec. 5.

Protractoboard. C. C. Brown. 2,532,537, Dec. 5.

Pulley assembly, Clothesline. J. W. Conway. 2,532,998, Dec. 5.

Pulse communication system. K. Schlesinger. 2,532,338, Dec. 5.

Pulse reception system. D. L. Hings. 2,532,450, Dec. 5.

Pulse reception system, High-speed. D. L. Hings. 2,532,667, Dec. 5.

Pulse selective system. W. D. Houghton. 2,532,843, Dec. 5.

Pump: *See*—
- Electromagnetic pump.
- Explosion operated pump.

Pumping system. J. W. McConaghy. 2,533,028, Dec. 5.

Punching circuit. E. Rose. 2,532,331, Dec. 5.

Purification of branched chain paraffins. A. E. Hirschler. 2,532,668, Dec. 5.

Purification of hydrogen. A. S. Newton. 2,533,138, Dec. 5.

Pyrogen removal from streptomycin salts. E. E. Howe and M. Tishler. 2,532,403, Dec. 5.

Quick-disconnect duct joint. A. M. Kellam. 2,532,773, Dec. 5.

Quick-driving glazier's point. E. Weissman. 2,532,797, Dec. 5.

Quick-freeze apparatus. R. M. Magnuson. 2,532,633, Dec. 5.

Rack: *See*—
- Ampoule holding rack.
- Electroplating rack.
- Display rack.
- Laundry drying rack.

Rack for panels, Display. F. E. Thomas. 2,532,965, Dec. 5.

Radar receiver automatic gain control circuit. E. K. Stodola. 2,532,347, Dec. 5.

Radio aerial system and particularly directive aerial system. W. A. Johnson. 2,532,919–20, Dec. 5.

Radio beacon. J. W. S. Pringle. 2,532,939, Dec. 5.

Radio communication system, Dimensional. J. H. Homrighous. 2,532,719, Dec. 5.

Radio-frequency inverter relay circuit. D. L. Hings. 2,532,451, Dec. 5.

Radiophone system, Time-division multiplex. J. H. Homrighous. 2,532,310, Dec. 5.

Radio receiver, Superheterodyne. J. D. Reid. 2,533,045, Dec. 5.

Rail fastening device. A. R. Schulze. 2,533,055, Dec. 5.

Rake, Adjustable hand. F. W. Wells. 2,532,526, Dec. 5.

Rake, Rotary side-delivery. A. J. Wray, Sr. 2,532,652, Dec. 5.

Ram and sealing rings, Hydraulic. W. B. Richardson. 2,532,422, Dec. 5.

Rattrap. G. J. Houston. 2,532,916, Dec. 5.

Ratchet drive. I. D. Jagger. 2,532,404, Dec. 5.

Razor, Safety. R. A. Griffin. 2,532,714, Dec. 5.

Razor with magnetic guard, Safety. L. C. Sanders. 2,532,872, Dec. 5.

Receptacle: *See*—
- Open bottom deposit and collection receptacle.

Receptacle closure. A. L. Langel. 2,532,818, Dec. 5.

Reclaiming synthetic rubber. T. A. Johnson and H. H. Thompson. 2,533,017, Dec. 5.

Recorder adapter for motion-picture projectors, Magnetic. C. G. De Blasio. 2,532,761, Dec. 5.

Recorder and method, Dual channel magnetic. H. A. Howell. 2,532,917, Dec. 5.

Recorder, Linear time axis pressure. P. M. Higgs. 2,532,620, Dec. 5.

Recording apparatus, Timepiece calibration. W. J. Loria and J. Suhre. 2,532,631, Dec. 5.

Recording, reproducing, and erasing apparatus, Magnetic. H. T. Faus. 2,532,803, Dec. 5.

Recovering copper oxide and a d-tartrate from a spinning solution. H. Hofmann. 2,532,308, Dec. 5.

Recovery of C^{14} activities. B. A. Fries. 2,532,490, Dec. 5.

Reflex amplification utilizing camera tube. G. C. Szikiai. 2,532,793, Dec. 5.

Refractory liner material. D. Meyer and M. G. Balzer. 2,532,592, Dec. 5.

Refrigerated vehicle. C. F. Henney. 2,532,618, Dec. 5.

Refrigerator car hatch construction. V. E. West. 2,532,472, Dec. 5.

Regeneration of synthetic rubber. T. A. Johnson and H. H. Thompson. 2,533,016, Dec. 5.

Regulating valve. P. Spence. 2,532,958, Dec. 5.

Regulator: *See*—
- Carbon pile regulator.

Relay, Electromagnetic. A. R. Young. 2,533,160, Dec. 5.

Remote-control device for brakes and other remote control parts. H. Weber. 2,532,975, Dec. 5.

Removal of HF from HF-oil and oil-HF solutions. W. R. Hertwig and J. D. Bushnell. 2,532,495, Dec. 5.

Removing grit, Method and apparatus for. P. F. Morgan and C. E. Lawrenz. 2,532,457, Dec. 5.

Replacement of hydrogen with fluorine in hydrogen- and halogen-containing organic compounds using lead tetrafluoride. E. T. McBee and R. M. Robb. 2,533,133, Dec. 5.

Requisition holder. G. C. Franklin. 2,532,361, Dec. 5.

Reshaping device for shoes. A. W. McKay. 2,532,564, Dec. 5.

Resilient mounting. E. G. Schmidt. 2,533,183, Dec. 5.

Resilient seat support. A. Gottfried. 2,532,713, Dec. 5.

Restrictor for refrigeration systems, Externally adjustable tubular fluid flow. A. F. Hoesel. 2,532,452, Dec. 5.

Ripping device, Thread stitch. I. M. Groff. 2,533,105, Dec. 5.

Rivet setting arm. F. A. Marty. 2,532,928, Dec. 5.

Road repairing machine, Hot-blast. W. G. Chausse. 2,532,994, Dec. 5.

Rocker arm, Self-adjusting. S. W. Hall. 2,532,905, Dec. 5.

Rocket launcher. L. A. Richards and F. C. Lindvall. 2,532,643, Dec. 5.

Roof, Reinforced sheet metal. R. Stemmons and W. L. Edel. 2,532,466, Dec. 5.

Rotary hydraulic coupling. B. Spiegel. 2,533,148, Dec. 5.

Rotary multicolor printing press. A. S. Huckins. 2,533,012, Dec. 5.

Rubber-phenolic resin composition. A. F. Shepard and J. F. Boiney. 2,532,374, Dec. 5.

Rug holding means. J. B. Frazelle. 2,532,703, Dec. 5.

Saddle mounting. F. W. Schwinn. 2,532,574, Dec. 5.

Safety joint. C. Ware. 2,532,686, Dec. 5.

Safety stop for die closures, Pneumatic. L. H. Morin. 2,533,035, Dec. 5.

Sampling apparatus, more particularly for use in vessels under pressure. F. H. Rogers. 2,532,946, Dec. 5.

Sandblasting. S. Backer. 2,532,655, Dec. 5.

Saw or the like, Hack. G. H. Mansfield. 2,532,506, Dec. 5.

Scarf joint gluing press. H. H. Payzant. 2,532,419, Dec. 5.

Scavenging system for rocket motors utilizing liquid nitrogen. R. H. Goddard. 2,532,708, Dec. 5.

Scissors, Hair-trimming. M. H. Kashian. 2,532,921, Dec. 5.

Screen structure. P. P. Bianchi. 2,532,886, Dec. 5.

Screw connection, Binding. R. F. Kieser. 2,532,625, Dec. 5.

Seal for filter cartridges. W. V. Kennedy. 2,533,192, Dec. 5.

Seal for pulp refining mills, Hydraulic. C. E. Roberson. 2,533,199, Dec. 5.

Sealing composition. J. B. De Coste. 2,532,699, Dec. 5.

Sealing device, Fluid. J. H. F. Stewart. 2,533,201, Dec. 5.

Seat and back structure, Spring. C. F. Benson. 2,532,884, Dec. 5.

Seat for washing windows, Safety. A. Anastasi. 2,532,590, Dec. 5.

Self-piloted rotary drill bit. O. Phipps. 2,532,783, Dec. 5.

Self-separating electrical connector. H. H. Burtt, C. E. Soderstrom, and W. W. Koenig. 2,532,538, Dec. 5.

Selvage motion. H. Cooper. 2,533,094, Dec. 5.

Separating metal halide vapors. I. J. Krchma. 2,533,021, Dec. 5.

Separator. W. H. Rowand. 2,532,332, Dec. 5.

Separator for paper pulp, Vortex type. A. C. Bergès. 2,532,885, Dec. 5.

Serrating machine, Band groove. M. S. Evans, A. O. Kleckner, and E. A. Watson. 2,532,397, Dec. 5.

Servomotor and control, Pressure differential. G. R. Elliott. 2,532,801, Dec. 5.

Servomotor circuit. W. A. Knoop. 2,532,723, Dec. 5.

Severing of connected tampons. H. C. A. Behr. 2,532,438, Dec. 5.

Sewing machine. B. A. Schmitt. 2,532,790, Dec. 5.

Shade roller operating device. F. H. Toms. 2,532,867, Dec. 5.

Shaker, Cocktail. P. Schlumbohm. 2,532,373, Dec. 5.

Sharpener for mechanical pencils. J. L. Worden. 2,532,384, Dec. 5.

Shears, Pruning. S. A. Drmic. 2,532,359, Dec. 5.

Sheet material delivery means. F. O. Trump. 2,533,184, Dec. 5.

Sheet-metal gas burner. A. H. Berger. 2,532,439, Dec. 5.

Shipper mechanism. E. A. Mastriani. 2,533,130, Dec. 5.

Shoe bag. D. B. Schwartzman and W. Jindella. 2,532,517, Dec. 5.

Shoe with adjustable foot-retaining means, Sandal type shower. A. L. Niccoli. 2,532,638, Dec. 5.

Shopping bag. L. Mintzes. 2,532,778, Dec. 5.

Shore. A. Negovan. 2,533,174, Dec. 5.

Sign with interchangeable sign elements, Illuminated. L. R. Tschopp. 2,532,651, Dec. 5.

Signal responsive system. G. C. Hess. 2,532,307, Dec. 5.

Signaling device, Vibratory reed. W. J. Muldoon. 2,533,136, Dec. 5.

Signature hopper mechanism. P. E. Kleineberg. 2,532,626, Dec. 5.

Silanes, Production of. D. B. Hatcher. 2,532,493, Dec. 5.

Silicon-containing polymer preparation. L. W. Tyran. 2,532,583, Dec. 5.

Sink and cabinet combined, Kitchen. J. M. Houpt. 2,532,769, Dec. 5.

Sizing compositions. F. Fortess and M. Duke. 2,532,400, Dec. 5.

Ski, Aircraft. F. J. Ditter. 2,532,610–11, Dec. 5.

Skirt marker. S. R. Goldstein. 2,532,298, Dec. 5.

Skirt marker. G. M. MacFarlane. 2,533,127, Dec. 5.

Slack adjuster and stay attachment for finger rings. J. H. Bratman. 2,532,354, Dec. 5.

Sled construction. B. J. Bor. 2,532,887, Dec. 5.

Slide changer for projectors. J. E. Leonard. 2,532,775, Dec. 5.

Slide fastener slider. J. M. R. Lyeth. 2,532,367, Dec. 5.

Sliding door mechanism. J. J. Fruch. 2,532,491, Dec. 5.

Slingshot. D. C. Wright. 2,532,798, Dec. 5.

Slotting machine. J. B. Armitage and J. N. Flannery. 2,532,591, Dec. 5.

Smoking pipe. J. D. Pelt. 2,532,820, Dec. 5.

Snap-lock wrench. B. Burns. 2,532,659, Dec. 5.

Socket, Oarlock. P. M. Griffin. 2,533,190, Dec. 5.

Socket wrench cabinet. G. A. Minnich. 2,532,636, Dec. 5.

Sodium silicate cement composition. H. J. Kahn. 2,533,118, Dec. 5.

Solar evaporation of brines. S. D. Lesesne. 2,532,924, Dec. 5.

Solenoid, Double-acting. J. R. Cataldo and K. E. Vroom. 2,533,187, Dec. 5.
Sorting apparatus. C. F. Robinson. 2,532,644, Dec. 5.
Sound-producing toy pin wheel. I. Cohn. 2,532,835, Dec. 5.
Speed control means for hydraulic mechanisms. E. F. Jirsa and C. W. Bopp. 2,532,552, Dec. 5.
Speed control system. R. M. Buckeridge. 2,532,287, Dec. 5.
Speed variator. E. Deletaille. 2,532,762, Dec. 5.
Spindle brake. F. D. Boyden. 2,533,162, Dec. 5.
Spinning artificial filaments. R. W. Stanley. 2,532,465, Dec. 5.
Spinograph method and apparatus. J. C. Thompson. 2,532,967, Dec. 5.
Splash shield closing means for acetylene generators. C. M. Johnson. 2,533,117, Dec. 5.
Spool and scissors holder. H. A. Zierold and M. J. West. 2,532,654, Dec. 5.
Spool, Winding. A. P. D. Belanger. 2,532,658, Dec. 5.
Spoon, Medical. E. S. Comstock. 2,532,696, Dec. 5.
Spray application of dyestuff and other materials. F. C. Wedler. 2,532,471, Dec. 5.
Spring structure. V. Asaro. 2,532,875, Dec. 5.
Sprinkler, Lawn. R. Brown and H. E. Metcalf. 2,532,356, Dec. 5.
Stamper, Automatic billet. L. A. Dailey and E. A. Erickson. 2,532,540, Dec. 5.
Staple fiber cutter. H. E. New. 2,532,458, Dec. 5.
Staple mill. E. J. Spink. 2,533,062, Dec. 5.
Staple pin attaching means. J. B. Frazelle and W. D. Chewning. 2,532,704, Dec. 5.
Steam flow control system. F. H. Schaub. 2,532,951, Dec. 5.
Steering for motor-powdered vehicles, Hydraulic actuated. J. E. Richter. 2,532,785-6, Dec. 5.
Stenciling apparatus. H. R. Farwell. 2,532,802, Dec. 5.
Sterold aldehydes, Preparation of. R. H. Levin, A. V. McIntosh, Jr., and G. B. Spero. 2,533,124, Dec. 5.
Strickling machine. O. G. J. Meunier. 2,532,634, Dec. 5.
Strip guiding apparatus. G. R. Markle. 2,532,563, Dec. 5.
Supplemental apron for center extension table. G. N. Kelly. 2,533,179, Dec. 5.
Support: *See*—
Bed or body support. Wearing apparel support.
Resilient seat support.
Support for bus bars, Insulation. H. Jensen. 2,532,845, Dec. 5.
Sweep-voltage generator circuit. P. R. Bell, Jr. 2,532,534, Dec. 5.
Swing and table assembly, Combination baby. B. V. Ketcham. 2,533,019, Dec. 5.
Swing, Playground. C. Germana. 2,532,444, Dec. 5.
Switch: *See*—
Electric switch. Thermostatic switch.
Engine starter control switch. Warm air limit control switch.
Multiple switch.
Switch position indication. T. G. A. Sillers. 2,532,647, Dec 5.
Switch with pendulum arrester, Limit. L. B. Petrak. 2,533,040, Dec. 5.
Swivel chair. A. Abramson and H. T. Futrell. 2,532,873, Dec. 5.
Synchromesh coupling. F. H. Tarlton. 2,532,648, Dec. 5.
Synchronizing device for stepping mechanisms. O. Tschumi. 2,532,582, Dec. 5.
Synthesis of hydrocarbons in the presence of an iron type catalyst. H. G. Vesterdal and H. J. Sykes. 2,533,071, Dec. 5.
Synthetic waxlike materials. J. C. Patrick and F. O. Davis. 2,532,369, Dec. 5.
Table for attachment to vehicle doors, Folding. A. S. Sparks. 2,533,147, Dec. 5.
Table for infant's bath stand, Dressing. C. T. De Puy. 2,532,837, Dec. 5.
Table top and supporting frame. L. M. Greenway. 2,532,902, Dec. 5.
Table with actuator mechanism, Folding leg. H. A. Mitchell. 2,533,173, Dec. 5.
Table with vertically adjustable mechanism, Convertible. P. F. Galleret. 2,532,766, Dec. 5.
Tagline device. R. W. Westfall. 2,532,828, Dec. 5.
Tank: *See*—
Fluid storage tank. Heatable water tank.
Tappet, Mechanical silent. C. L. Stancliff. 2,532,846, Dec. 5.
Target indicating system, Moving. G. D. Forbes. 2,532,546, Dec. 5.
Teeter-totter and merry-go-round. E. E. Franz. 2,533,005, Dec. 5.
Television. F. Okolicsanyi. 2,532,511, Dec. 5.
Temperature calibrated metal vapor discharge lamp. R. W. Samer. 2,532,463, Dec. 5.
Temperature maintenance system, Constant. E. G. White. 2,532,382, Dec. 5.
Temperature operated valve. E. J. Dillman. 2,532,896, Dec. 5
Terminal for electric power cable systems. C. E. Bennett. 2,532,477, Dec. 5.
Terminal, Partially insulated electrical. J. Rogoff. 2,533,200, Dec. 5.
Testing device for radio object detection systems. V. A. Counter, W. M. Fairbank, and J. Halpern. 2,532,539, Dec. 5.
Therapeutic agents, Micropulverized. G. V. Taplin and F. A. Bryan. 2,533,065, Dec. 5.
Therapeutic compositions, Micropulverized. G. V. Taplin and F. A. Bryan. 2,533,066, Dec. 5.
Thermal conversion of hydrocarbons. R. B. Ewell. 2,532,615 Dec. 5.
Thermal insulated pipe. T. F. M. Williamson. 2,532,587, Dec. 5.
Thermal process for producing the carbides of tantalum and columbium. D. Gardner. 2,532,295, Dec. 5.
Thermally responsive indicator. R. D. Nelson. 2,532,510, Dec. 5.
Thermionic tube. P. M. Cupido, B. O. M. Gall, J. L. H. Jonker, and A. J. W. M. van Overbeek. 2,532,836, Dec. 5.
Thermostatic switch. J. O. Rosche. 2,532,859, Dec. 5.
Thianaphthenylmethyl benzoate. F. F. Blicke. 2,533,087, Dec. 5.
Thio-ethers, Preparation of unsaturated. T. F. Doumani. 2,532,612, Dec. 5.
Thread guide roller, Fluid circulating. H. O. Naumann. 2,532,326, Dec. 5.
Threading machine, Tape. A. W. Biesen. 2,532,535, Dec. 5.
Throttle control device. P. Siever. 2,532,861, Dec. 5.
Ticket. B. H. Freedman. 2,532,664, Dec. 5.
Ticket and making and applying the same, Strip. F. H. Ogden. 2,532,459, Dec. 5.
Tilt compensator for typewriters. H. G. Hartman. 2,533,111, Dec. 5.
Tire removing device. J. I. Larman. 2,532,412, Dec. 5.
Tire rim, Separable. L. J. Ebert. 2,532,764, Dec. 5.
Tonster and the like, Automatic electric. A. B. Poole and P. H. Morganson. 2,532,569, Dec. 5.
Tobacco curing apparatus. J. E. Chestnutt. 2,533,092, Dec. 5.
Toggle block adjusting device for jaw crushers. H. J. Shelton. 2,532,678, Dec. 5.
Toggle, Self-breaking. O. H. May. 2,532,850, Dec. 5.
Toilet paper holder. S. M. Kandarian. 2,533,018, Dec. 5.
Tone arm carriage. E. R. De Weese. 2,532,293, Dec. 5.
Tone arm protecting mechanism. B. R. Kamler. 2,532,555, Dec. 5.
Tool: *See*—
Jewel-setting tool. Motor tool.
Tool and holder therefor. J. M. Redinger. 2,533,179, Dec. 5.
Toothbrush, Power driven. J. F. Cannon. 2,532,480, Dec. 5.
Toothbrush with lip guard, Rotary. D. P. Grover. 2,533,106, Dec. 5.
Toothbrush with lip guard, Rotary. D. P. Grover. 2,533,108, Dec. 5.
Toothbrush with movable lip guard, Rotary. D. P. Grover. 2,533,107, Dec. 5.
Torch, Arc-welding. D. C. Girard and F. T. Roach. 2,532,807, Dec. 5.
Torque transmitting shaft coupling. E. W. Winans. 2,532,829, Dec. 5.
Tower reactor. A. S. Brunjes and M. J. P. Bogart. 2,532,756, Dec. 5.
Toy, Rolling ball and track. R. L. Stair. 2,532,521, Dec. 5.
Toy roundabout. R. G. Reeves. 2,532,571, Dec. 5.
Track shoe connector. C. W. Sinclair. 2,532,824, Dec. 5.
Traction grip. H. J. Tschohl and E. M. Hanson. 2,532,386, Dec. 5.
Tractor cab, Detachable. H. Sanden. 2,532,948, Dec. 5.
Tractor, Power garden. J. E. Tom. 2,532,580, Dec. 5.
Trailer hitch. G. A. Shaieb. 2,532,676, Dec. 5.
Trailer step. D. Itunyen. 2,533,050, Dec. 5.
Transceiver, Signal-seeking. W. I. Wu. 2,532,589, Dec. 5.
Transmission, Electromechanically controlled planetary. A. Y. Dodge. 2,532,897, Dec. 5.
Transmission system, Intelligence. W. A. Schwalm. 2,533,140, Dec. 5.
Transmitter having frusto-conical back electrode, Telephone. H. W. Bryant. 2,532,694, Dec. 5.
Transonic airfoil design. W. W. Beman. 2,532,753, Dec. 5.
Tray blank and tray, Foldable. G. G. Grinnell. 2,532,808, Dec. 5.
Tray for infants' training chairs. M. H. Scott. 2,532,953, Dec. 5.
Treating metal surfaces, Method and apparatus for electrolytically. C. W. Hangosky. 2,532,907, Dec. 5.
Tree holder and tree watering pan, Combined Christmas. H. G. Miller. 2,532,931, Dec. 5.
Trimmer mechanism for sewing machines. B. P. Pinkvoss. 2,533,197, Dec. 5.
Truck with automatic tilt, Pickup. R. C. Hawkins. 2,532,717, Dec. 5.
Tube: *See*—
Cathode beam tube. Reflex amplification utilizing camera tube.
Multigrid electron discharge tube. Thermionic tube.
Tube and electrode holder, Neon. W. B. Jerigan. 2,532,406, Dec. 5.
Tube assembly, Inflating. M. J. Sturtevant. 2,533,202, Dec. 5.
Tube comprising an indirectly heated cathode, Electric discharge. G. Diemer. 2,532,838, Dec. 5.

Tube coupling sleeve, Flexible but supported. G. V. Woodling. 2,532,352, Dec. 5.
Tube having metallic lining, Collapsible, with low lead pickup and making same. J. H. Friden. 2,532,804, Dec. 5.
Tube sizing apparatus. C. E. Snyder. 2,532,862, Dec. 5.
Tube tester, Cathode-ray. R. S. Coate. 2,532,759, Dec. 5.
Tubes, Making paper. E. G. Hensler. 2,532,494, Dec. 5.
Tubing and tubing joint. M. D. MacArthur. 2,532,632, Dec. 5.
Turbine rotor, Cooling. A. Kalitinsky and C. R. Soderberg. 2,532,721, Dec. 5.
2-aminoalkyl-glyoxaline derivatives and the production thereof. A. A. Goldberg, M. Shepton, and L. P. Ellinger. 2,532,547, Dec. 5.
2,3-derivatives of 1,4-dihaloanthraquinones. F. Max and D. I. Randall. 2,533,193, Dec. 5.
2-trihalomethyl-2,3-dioxolane-4-carboxylic acids and derivatives thereof. E. F. Schroeder. 2,532,340, Dec. 5.
Tying flies. H. W. Steen. 2,532,961, Dec. 5.
Typewriter manifolding device. A. P. R. Thunbo. 2,532,431, Dec. 5.
Underskirt. R. G. Baldrica. 2,532,532, Dec. 5.
Union and expansion joint. C. R. Dale. 2,533,097, Dec. 5.
Universal joint. S. G. Wingquist. 2,532,433-4, Dec. 5.
Urea-formaldehyde resins of high naphtha tolerance. G. E. Ellerman. 2,532,396, Dec. 5.
Vacuum cleaner with dirt-bag feed and ejection. E. P. Senné. 2,532,642, Dec. 5.
Valve: *See*—
Fuel control valve. Velocity modulation electronic valve.
Hydraulic control valve.
Regulating valve.
Temperature operated valve.
Valve for water softening apparatus. J. Evans. 2,532,614, Dec. 5.
Valve spring compressor. H. W. Kulp. 2,533,121, Dec. 5.
Valve unit. W. M. Myers. 2,532,568, Dec. 5.
Valve used as a control. R. C. Churchman. 2,532,607, Dec. 5.
Valved paste ejector. D. Peterson. 2,532,782, Dec. 5.
Vane structure for rotating combustion chambers. R. H. Goddard. 2,532,712, Dec. 5.
Vanity back view chair. W. N. Parry. 2,532,853, Dec. 5.
Vanity box. M. Y. Rosenfeld. 2,533,049, Dec. 5.
Vapor generating and control apparatus for combustion chambers. R. H. Goddard. 2,532,710, Dec. 5.
Vapor phase fluorination. E. T. McBee and R. M. Robb. 2,533,132, Dec. 5.
Vat dyes of the anthrimide carbazole thioxanthone type. F. Max and D. I. Randall. 2,533,170, Dec. 5.
Vehicle: *See*—
Refrigerated vehicle.
Vehicle take-off. G. L. Kuhl. 2,533,022, Dec. 5.
Velocity modulation electronic valve. R. Warnecke and M. Lortie. 2,532,796, Dec. 5.
Venetian blind. G. H. Hauser and F. R. Wagner. 2,532,617, Dec. 5.
Ventilator device for kitchen ranges. W. A. Pledger. 2,532,420, Dec. 5.
Vibration absorbing mounting for sewing machines. J. Galkin. 2,532,767, Dec. 5.
Vibration pickup, Torsional. L. Petersen. 2,532,781, Dec. 5.
Video-frequency receiving apparatus. E. G. O. Anderson and G. G. Bernard. 2,533,081, Dec. 5.
Vinyl silicon chlorides, Preparation of. C. O. Strother and G. H. Wagner. 2,532,430, Dec. 5.
Vinylthiazoles, Preparing. L. F. Salisbury. 2,532,573, Dec. 5.
Visualization of complex waxes. R. K. Potter. 2,532,731, Dec. 5.
Voltage phase control circuit. J. D. Malmqvist, G. V. A. Gustafsson, and S. S. T. Werner. 2,532,368, Dec. 5.
Voltage supply apparatus. J. E. Corbin and R. C. Newhouse. 2,532,697, Dec. 5.
Wagon axle and reach connection construction. R. W. Phelps. 2,532,675, Dec. 5.
Warm air limit control switch. E. G. White. 2,532,383, Dec. 5.
Washing machine, Temperature controlled electrically heated. J. E. Landfried. 2,533,122, Dec. 5.
Watch, Star. H. B. Milligan. 2,532,324, Dec. 5.
Water closet, Shielded. S. Duner. 2,532,763, Dec. 5.
Water distributing device for mixers. G. Jaeger. 2,533,191, Dec. 5.
Wear strip and floor ring. H. A. Storch. 2,532,743, Dec. 5.
Wearing apparel support. J. F. Hart. 2,532,909, Dec. 5.
Weather vane. O. D. Harbert. 2,533,110, Dec. 5.
Weaving pile fabrics. F. P. Groat. 2,532,903, Dec. 5.
Welding control system. C. R. Hewson. 2,532,826, Dec. 5.
Welding control system. H. F. Storm. 2,532,825, Dec. 5.
Wellhead assembly. J. E. Eckel and M. R. Jones. 2,532,662, Dec. 5.
Wheel: *See*—
Enclosed resilient wheel. Sound-producing toy pin wheel.
Monorail wheel.
Wheel. A. H. Oelkers. 2,533,176, Dec. 5.
Wheelbarrow booster. T. Thomas. 2,532,966, Dec. 5.
Wheel ridge leveling device. E. Steffen. 2,533,150, Dec. 5.
Wick type oil burner. J. F. Meyer. 2,532,570, Dec. 5.
Wide band impedance matching network. I. J. Melman. 2,533,030, Dec. 5.
Winch control mechanism. A. W. Evans. 2,532,360, Dec. 5.
Window sash, Auxiliary. D. Sommers. 2,532,957, Dec. 5.
Windshield for plum bobs. T. B. Starnes. 2,532,378, Dec. 5.
Wire wheel spoke tightening machine. H. H. Henry. 2,533,113, Dec. 5.
Wrench: *See*—
Snap-lock wrench.
X-ray diffraction apparatus for use with radioactive materials. D. Harker. 2,532,810, Dec. 5.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 5, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business Nov. 24, 1950

Total number of patent applications awaiting action, 125,139. Date of oldest new application, September 27, 1949; date of oldest amended application, September 23, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application awaiting Office action	Oldest amended application awaiting Office action	Applications awaiting action
* C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	12-27-49	12-29-49	2707
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-22-49	11-19-49	2049
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	3-14-50	2-28-50	1692
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	10-11-49	10-7-49	2180
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-27-49	10-19-49	1605
6. SURLE, H., Carbon Chemistry (part)	2-8-50	2-7-50	1858
7. GONSALVES, J. E., Optics; Photography (part)	5-19-50	5-10-50	1302
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	11-1-49	11-3-49	2530
9. BENSON, R. B., Pumps and Fans; Fluid Motors	11-16-49	11-16-49	1416
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	2-1-50	1-5-50	1416
11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	11-2-49	11-9-49	1596
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-13-50	1-20-50	1366
13. BRALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	10-8-49	10-8-49	1979
14. MANIAN, JOSEPH C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	12-9-49	12-19-49	1309
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-7-50	3-21-50	1328
16. LOVEWELL, N. N., Television; Telephony	2-2-50	2-28-50	1078
17. LEIGHEY, R. A., Paper Manufacturers; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-26-49	12-14-49	2160
18. KURZ, J. A., Power Plants; Speed Responsive Devices	10-19-49	10-8-49	1697
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-6-49	10-25-49	1305
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	11-18-49	11-16-49	1933
21. MADER, R. C., Textiles; Package and Article Carriers	11-9-49	11-5-49	1881
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	11-9-49	11-14-49	1517
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	11-28-49	12-14-49	784
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	3-27-50	4-3-50	1500
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-14-50	2-11-50	1514
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-6-50	1-4-50	1376
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	1-11-50	12-28-49	2135
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-16-49	10-21-49	1603
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-30-50	1-31-50	1881
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	3-23-50	3-24-50	2106
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	3-7-50	2-14-50	2162
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	3-10-50	1-25-50	1542
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-10-50	1-10-50	2163
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	11-18-49	11-18-49	1609
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-3-50	1-3-50	1777
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	12-2-49	11-16-49	1678
37. REYNOLDS, E. R., (Acting), Electricity, Circuit Makers and Breakers	12-15-49	12-12-49	1054
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	12-30-49	2-23-50	1398
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	9-27-49	10-1-49	3061
40. DRUMMOND, E. J., Receptacles (part); Packages	1-5-50	1-3-50	3257
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	10-15-49	10-1-49	1660
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-26-50	1-11-50	2284
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	5-20-50	3-22-50	1068

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 125,139. Date of oldest new application,

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 125,139. Date of oldest new application, September 27, 1949; date of oldest amended application, September 23, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
44. HARVEY, L. P., Beds; Chairs, Seats	10-6-49	10-6-49	1871
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-19-49	12-3-49	1888
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	11-28-49	11-30-49	1388
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-21-50	12-7-49	1895
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	3-2-50	11-28-49	1141
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	11-12-49	11-8-49	2124
50. LEVIN, SAMUEL, Synthetic Resins	4-26-50	3-7-50	1707
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	1-13-50	11-9-49	1563
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	11-15-49	11-10-49	3187
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	1-21-50	1-6-50	1259
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	2-2-50	1-20-50	1546
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	2-20-50	2-28-50	1379
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	2-10-50	1-26-50	1724
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	3-20-50	3-21-50	1411
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	11-2-49	1511
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	3-23-50	2-24-50	1159
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	4-3-50	2-28-50	1131
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-21-49	12-12-49	1878
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	12-12-49	1-5-50	2484
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	3-17-50	3-15-50	1632
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	5-3-50	5-1-50	1696
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-27-50	2-27-50	1839
66. LISANN, I., Geometrical Instruments	12-23-49	10-6-49	1099
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	3-7-50	3-1-50	1440
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-23-50	2-14-50	1549
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	11-29-49	11-25-49	2003
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	11-15-49	9-23-49	2137
DESIGNS: BREHM, G. L.	1-7-50	5-17-50	3854

Total number of trade-mark applications awaiting action (including renewals and republications) 22,376. Date of oldest new application, Feb. 17, 1950; date of oldest amended application, Feb. 1, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-20-50	2-28-50	6485
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	3-20-50	3-7-50	3955
Renewals (All Classes)	9-22-50	10-24-50	355
Republications (All Classes)	10-3-50	10-24-50	286
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-1-50	3-1-50	5457
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	2-17-50	2-1-50	5838

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE LEE

No. 5662. Decided June 30, 1950

[183 F.2d 82; 86 USPQ 348]

1. DIVISION—ELECTION OF LINKING CLAIMS NOT PROPER. Where, in response to a requirement of division, the applicant elects to prosecute certain claims which "link" the distinct inventions, *Held* that a requirement that he elect one of the distinct inventions is not a denial of his right, under the Rules of Practice, to claim "whichever invention he may elect" and the requirement was, therefore, proper.

APPEAL from Patent Office. Serial No. 586,979.

AFFIRMED.

Harker H. Hittson for Lee.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming a requirement for division between three groups of claims made by the Primary Examiner with the approval of the Examiner of Classification.

The application relates to alleged improvements in a mining machine described by the Board as follows (numerals designating different features being omitted as indicated by asterisks):

This application discloses a skid-mounted mining machine. The usual cutter bar * * * carries a cutter chain * * * driven by an electrical motor * * *. The machine is adapted to be supported and to be slid over the mine floor as a unit while cutting a kerf to feed the cutter forward. This feeding movement is obtained by means of cables operating on drums * * * which are driven by * * * electric motor * * * through the transmission mechanism * * *. A system for lubricating the various moving parts of the machine is provided. * * * Positioned at the rear end of the machine is a slack conveyer * * * to remove the cuttings from the cutting bar.

The respective groups of claims between which division was required are:

(D) Claims 44 to 46
(J) Claims 100, 101, and 113 to 116
(L) Claims 12 to 14, 56, 57 and 102.

In the decision of the Board claim 44 is quoted as representative of group (D), claim 100 as representative of group (J), and claim 12 as representative of group (L). The claims so quoted read:

44. A direct current mining machine four pole motor including two generally opposite poles having windings thereon, the axes of said poles being inclined upwardly and outwardly relative to a generally horizontal plane through the axis of said motor and making an angle of approximately 15 degrees with said horizontal plane, said inclined poles having shoes thereon the faces of which are substantially bi-sected by said horizontal plane.

100. In a mining machine, a frame including a machinery compartment, operating machinery in said compartment, said machinery compartment including an oil sump adapted to collect oil in said machinery compartment, an oil reservoir, a motor driven pump adapted to pump oil from said sump into said reservoir, a second pump adapted to pump oil from said reservoir, and control means for said mining machine operable by oil delivered by said second pump.

12. In a mining machine, the combination with a frame, of a motor adjacent the front part of said frame and having a housing, said motor including a rotor, said housing having a removable front plate which when removed provides for removal of said rotor by moving it forwardly, a cutter bar extending forwardly from said frame and having an extension which extends rearwardly and is pivotally connected to said frame at its rear end, means removably connecting said cutter bar extension and said frame forwardly of said pivoted connection which when disconnected provides for relative pivotal movement of the frame and cutter bar, and means including an elevating jack adjacent the front of said frame for effecting said pivotal movement whereby said rotor can be removed while the cutter bar remains connected to said frame.

Two patents were cited as references upon certain points, viz.: Merrick, 665,337, Jan. 1, 1901; Meeks, 2,232,620, Feb. 18, 1941.

In the course of its decision the Board said:

We have reviewed the claims in the three groups designated (D), (J) and (L) respectively and agree with the Examiner that the claims of each of these three groups are directed to a separate subject matter of invention. Group (D), of which claim 44 is illustrative, is clearly directed to a matter of general application, its classification being illustrated by the Merrick patent. Group (J), of which claim 100 is illustrative, is drawn to a lubrication system of general application as illustrated by the Meeks patent. These claims do not recite any structure limiting them to a mining machine but broadly recite "a machinery compartment, operating machinery in said compartment" as recited in claim 100 and as recited in equivalent terms of the remaining claims of the group. The claims of group (L), as illustrated by claim 12, include such elements of the mining machine as the cutter bar and elevating jack as to bring them into the category of a mining machine. Appellant does not present any contentions upon which reason for alleged error in requiring division among these groups may be based but relies on the presence of so-called "linking claims" to circumvent the requirement for division.

The requirement for division among groups (D), (J), and (L) cannot be conclusively determined until all questions as to the so-called "linking claims" are finally decided since both the Primary Examiner and the Examiner of Classification have stated that this requirement is subject to the non-allowance of any claims which link two or more of the claims between which division is required. It is not apparent therefore how the rights of applicant would be in the least affected by the election made necessary by the requirement for division. The question of whether or not applicant will elect one of the groups designated by the Primary Examiner relates to procedure and is not covered by Rule 133.

It is obvious, we think, that the last sentence of the immediately foregoing quotation relates, as stated in the brief of the Solicitor for the Patent Office, "only to what appellant may, can or will do after the requirement for division is settled finally."

The so-called "linking claims" are Nos. 4, 5, 31 to 43, inclusive, 106, 108 to 112, inclusive, 120, and 122 to 131, inclusive. They were placed in a group designated (M), apparently being regarded as old combination claims or aggregative. The claims of this group were not included in the groups among which division was required, and it was held by

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the Primary Examiner that claims 31 to 43, inclusive, and 122 to 131, inclusive, may be examined with group (D) supra; that claims 108 to 112, inclusive, and 120 may be examined with group (J) supra; and claims 4, 5, and 106 with group (L) supra. So, group (M) was divided into subgroups.

Appellant seeks to avoid the requirement for division between groups (D), (J), and (L) by "electing" to prosecute the so-called "linking claims" 31 to 43 and 122 to 131 embraced in subgroup (M4). He seeks thereby to force consideration on the merits of all the claims and consequently circumvent the requirement for division between groups (D), (J), and (L).

Such action, it seems to us, would be in conflict not only with the long established practice in the Patent Office but with the decisions of this court in cases such as *In re Freeman*, 26 CCPA (Patents) 1265, 104 F.2d 187, 41 USPQ 784, 508 O. G. 290 (the opinion in which was most carefully prepared after long study by the late Judge Hatfield); and *In re Oberweger*, 28 CCPA (Patents) 749, 115 F.2d 826, 47 USPQ 455, 523 O. G. 541.

In the brief for appellant before us it is said (reference to pages of the record being deleted as indicated by asterisks):

> Appellant respectfully relies upon the errors of the Board of Appeals as set forth in his Notice of Appeal * * * and without repeating those statements of errors which are respectively incorporated herein by reference, it may be stated as a simplification of them that the issue is whether or not the Patent Office can deny an applicant's fundamental right to claim "whichever invention he may elect" (old Patent Office Rule 42, new Patent Office Rule 142).

In our opinion, appellant has not been denied any fundamental, or other kind of, right "to claim 'whichever invention he may elect.'" Consideration upon its merits of each claim on appeal is preserved. Appellant did not elect any one of the distinctly different inventions claimed by him upon the basis of his application, but sought by the use of "linking claims" (which seemingly would not be patentable standing alone, although they may be when considered in combination with the claims in groups (D), (J), and (L)) to have every claim considered upon its merits. In other words, appellant, through his attorney, sought to "elect" all three of his claimed inventions.

We are not convinced of error on the part of the Board and its decision is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE STERN

No. 5669. Decided June 30, 1950

[183 F.2d 107; 86 USPQ 350]

1. PATENTABILITY—PARTICULAR SUBJECT MATTER—PROCESS OF PREPARING NITROCELLULOSE.

Certain claims to a process of preparing nitrocellulose from wood pulp *Held* unpatentable over the cited prior art.

APPEAL from Patent Office. Serial 518,230.

AFFIRMED.

Lloyd H. Sutton (*Gordon W. Daisley* of counsel) for Stern.

E. L. Reynolds for the Commissioner of Patents.

GARRETT, *Chief Judge:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the Primary Examiner's rejection, as unpatentable over the cited prior art, of all the claims, numbered 1 to 7, inclusive, of appellant's application for patent relating to the preparation of nitrocellulose from wood pulp.

The appeal to us was taken as to all the claims but in his brief and at the oral hearing before us appellant requested dismissal as to claims 4 and 5, which request will be granted.

We here quote claims 1 and 7:

> 1. In the preparation of nitrocellulose from felted wood pulp sheet by a process in which the sheet is reduced to small pieces and subjected to nitrating acids, followed by washing and recovery of the nitrated wood pulp, the improvement which consists in reducing the said sheet to chips of substantially greater lengths than thickness by a striking operation which includes in one operation shearing the sheet vertically with respect to its horizontal surface and splitting the sheared chip in a direction transverse to the direction of shearing, while the wood pulp sheet has an air-dry value above about 105%, in order to produce softer, more expanded chips which yield a more soluble nitrocellulose after nitration in comparison with chips formed from more moist sheets.
>
> 7. A process for the preparation of nitrocellulose from felted wood pulp sheet which comprises drying the sheet to an air-dry value above 105%, reducing the sheet by chipping lengths having substantial length and cross section from the sheet and splitting the chipped lengths in a direction transverse to the direction of chipping to form expanded chips, drying the chips further to an actual moisture content of less than ½%, nitrating the dried expanded chips, and recovering the resulting nitrated wood pulp, said product being characterized by substantially complete solubility and by being improved in clarity and completeness of solution over nitrated pulp chips formed from sheet at an air-dry value less than 105%.

Two patents were cited as references, viz.: Stern, 2,028,080, Jan. 14, 1936; Richter, 2,112,115, Mar. 22, 1938.

The Stern patent so cited was issued to appellant and is shown to have been assigned to Hercules Powder Company, appellant's employer.

It is recited in the specification that the application is a continuation-in-part of a prior application of appellant, Serial No. 356,177, filed September 10, 1940, which was a continuation-in-part of another prior application, Serial No. 179,032, filed December 9, 1937. Both of the prior applications were made a part of the record before us. Both were rejected by the tribunals of the Patent Office and no appeals from the decisions of the Board seem to have been taken. The decisions in those cases are dwelt upon in the decisions of both the Primary Examiner and the Board of Appeals in the instant case, but the doctrine of res judicata was not invoked as to claims 1, 2, 3, 6, and 7.

It is said in the statement of the Examiner following the appeal to the Board:

> * * * The essence of the alleged invention resides in the preparation of the wood pulp sheets for nitration, the steps of nitrating themselves being the conventional nitration process for cellulose by means of nitration acids.
>
> In accordance with the process disclosed herein felted wood pulp sheets are reduced to small pieces, by means of a cutting or chipping device and in the manner disclosed in the Stern Patent 2,028,080. In accordance with the Stern patent the resulting chips are of lengths substantially greater than the thickness of the pulp board. The chips are then nitrated by treatment with nitration acids in accordance with the usual methods of nitration.
>
> * * * * * * *

> The term "air dry value" is an arbitrary standard of moisture content which is used in the paper industry, in which "air dry" pulp has an actual content of 10% moisture. Thus an "air dry" value of 105% would mean that 100 pounds of pulp actually contain .90×105 or 94.5 pounds of bone dry pulp and 5.5% actual moisture.
>
> In applicant's prior Patent 2,028,080 the pulp board (moisture content not specified) is presented to the shearing, splitting and tearing action of the knives of the chipping machine as disclosed in Figure 1 of the patent, thus producing chips "of substantially greater length than thickness" as defined in the claims herein. The patent disclosure states that wood pulp so prepared may be nitrated by the use of the usual nitrating mixtures used for the nitration of cotton. The Stern patent therefore discloses all that is being claimed in the present specification with the exception of the moisture limitations of the pulp board *during the chipping*. [Italics ours.]

We have italicized the phrase "during the chipping" because it is emphasized in the brief for appellant that a moisture content of not exceeding 5.5% at the time the chipping takes place, which is prior to use of the nitration steps, is critical.

In the brief for appellant before us it is said, in substance, that the wood pulp sheets are formed at the mill and conventionally shipped in rolls to the plant where the step of chipping is done, and thereafter the nitrating steps are carried out. So, it is asserted, "there are three distinctively different times at which the moisture content of the sheet is to be considered."

The times are then defined as follows:

> (1) the moisture content of the sheet at the time of delivery [from the mill where made to the plant where processed to make nitrocellulose];
>
> (2) the moisture content of the sheet at the time of chipping; and
>
> (3) the moisture content at the time of nitrating.

The brief then states, in substance, that the here claimed invention relates to the alleged critical range of moisture at the time of the chipping.

After the Richter patent had been cited as a reference, in the first rejection by the Primary Examiner, there were filed the affidavits of appellant Stern, Edwin B. Spaulding, Clark B. Kingery, and Robert M. Brooks, the three latter being research chemists employed at plants of Hercules Powder Company, who made tests relative to the subject matter of moisture content under the direction of appellant.

One purpose of the affidavits of appellant and Spaulding (who also filed affidavits for the same purpose during the prosecution of application Serial No. 179,032) and that of Kingery was to overcome the date of the Richter patent. (See Patent Office Rules, old Rule 75; present Rule 131.)

The Examiner held, and the Board sustained the holding, that the Richter patent had not been overcome by the affidavits, and the contention on behalf of appellant in that regard has not been pressed before us.

The affidavits are relied upon, however, as proof of the alleged criticalness of the moisture content of the sheets at the time of chipping the sheet as distinguished from the content at the time of its delivery at the plant and from the content at the time of nitrating the chipped fragments.

We have studied the affidavits carefully, and we do not agree with the holding by the tribunals of the Patent Office to the effect, as expressed by the Examiner, "that the limit of 5.5% moisture at the time of chipping involves no more than a matter of degree over the use of air-dried sheets" and hence that the claims are rejectable as lacking invention over appellant's prior patent "taken alone."

We find nothing in the Stern patent, 2,028,080, which relates in any manner, or in any way teaches anything, respecting moisture in wood pulp. As we understand the patent, the product—wood pulp—and the method of making it are the only matters covered or sought to be covered therein. The product was to constitute, in the condition as developed, material from which, among other things, nitrocellulose might be made. No process of making nitrocellulose was included or even suggested in the patent.

Appellant's application here at issue seeks to patent a process for making nitrocellulose from the product resulting from the use of his patented process in creating what, not improperly we think, may be designated as "raw material."

It seems obvious to us that the claims here involved should not be rejected on the Stern patent standing alone.

We have not overlooked the fact that in the decisions made by the respective tribunals of the Patent Office in the instant case their decisions denying appellant's applications, Serial Nos. 179,032 and 356,177, hereinbefore referred to, were cited as controlling, or at least as being very persuasive, here when taken in connection with the Stern patent. In both of those applications the matter of moisture content was a prominent element in both the specification and the claims, but we do not find where any claim in either application, which bears any pertinent relation to the claims here under consideration, was rejected on the Stern patent alone. In the decisions rejecting application Serial No. 179,032 two other patents were cited as references, the Richter patent not being one of them. In the decisions rejecting application Serial No. 356,177 Richter was cited along with those which had been cited in the rejection of application Serial No. 179,032.

However, we do not find it necessary to elaborate our views adverse to the rejection of the claims at issue before us on the Stern patent standing alone, nor is it essential to our decision to make a definite holding upon the question of criticalness respecting the moisture content, because, even if it be critical, we are not convinced that the Board erred in affirming the decision of the Primary Examiner rejecting the claims on the Stern patent in view of the disclosures of the Richter patent.

The specification of the Richter patent clearly teaches drying the sheets of wood pulp to a point where the moisture content is within the percentage range upon which appellant relies. This is not questioned by appellant, but it is argued that the references in the specification so teaching refer to the moisture content at the time of nitration rather than at the time of chipping.

It is true that Richter makes no direct reference to any specific moisture content existing at the time

of chipping, but, as we understand the specification, it teaches that the sheets are dried to a moisture content within the content range of the claims here under consideration prior to being chipped and maintained at such content during the step of chipping and through the step of nitrating.

In compliance with the request on behalf of appellant, the appeal is dismissed as to claims 4 and 5.

For the reasons stated, the decision of the Board affirming the Primary Examiner's rejection of claims 1, 2, 3, 6, and 7 is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

JENNINGS *v.* HILL

No. 5626. Decided February 2, 1950. Petition for rehearing denied September 29, 1950

[182 F.2d 207; 87 USPQ 93]

1. INTERFERENCE—COPYING CLAIMS FROM PATENT—DELAY AFTER KNOWLEDGE OF CLAIMS.

Held that the rule which permits copying of patent claims within one year of the issue of a patent will apply even though the evidence shows that the applicant had knowledge of the wording of the patent claims at a time prior to the one year period.

2. SAME—PRIORITY—METHOD OF DYEING TEXTILES AND PRODUCT THEREOF.

Held that, on the record presented, the appellee was properly awarded priority of the invention of the counts in issue, and, accordingly, the decision of the Board of Interference Examiners is affirmed.

APPEAL from the Patent Office. Interference No. 82,270.

AFFIRMED.

Francis D. Thomas (*W. W. Cochran, John M. Kisselle,* and *Stephen W. Blore* of counsel) for Jennings.

Byerly, Townsend & Watson (*Ralph M. Watson* of counsel) for Hill.

JACKSON, *J.*:

This is an appeal in an interference proceeding from a decision of the Board of Interference Examiners of the United States Patent Office, awarding priority of invention of the subject matter defined by five counts to appellee. The counts are claims copied by appellee from the patent of appellant, and read as follows:

1. The art of pad dyeing to produce a solid color effect which comprises subjecting textile materials having discrete fibers to an emulsion comprising fine droplets of organic solvent uniformly dispersed in an aqueous medium, the individual droplets having dissolved therein a resinous substance containing coloring matter, and then drying the textile material to form a product comprising textile material having coloring matter bonded to its discrete fibers by a substantially continuous film of resinous substance.

2. A solid-colored textile material comprising a fabric having discrete fibers, and means substantially covering the discrete fibers to color the same, said means comprising a thin substantially continuous film of resinous substance containing coloring matter, the material being, to the naked eye, of a uniform color and appearance, substantially identical with the product of claim 9 (of Hill, claim 4 of Jennings).

3. The art of treating porous textile materials having discrete fibers comprising as a step, applying to discrete fibers of the structural yarns of the fabric an aqueous dispersion of water-insoluble resin, water-insoluble coloring matter and water-insoluble organic solvent for the resin, the consistency of the dispersion being so thin as to leave said interstices open, the organic solvent being of a nature as to carry the dispersed resin and coloring matter into the capillary spaces of the material, and drying the material to leave a thin coating of resin and coloring matter around the discrete fibers without materially affecting the porosity of the material.

4. The method of dyeing porous textile materials having discrete fibers which comprises applying to the material coloring matter emulsified with a solvent and a resin in water, the emulsion being so thin that the droplets of solvent containing coloring matter and resin are carried into the discrete fibers of the material, and then drying the material to deposit a thin film of resin containing coloring matter on the discrete fibers of the material without materially affecting the porosity thereof.

5. The art of treating porous textile materials having discrete fibers comprising, as a step, applying to discrete fibers of the structural yarns of the fabric an aqueous dispersion of water-insoluble resin, water-insoluble coloring matter and water-insoluble organic solvent for the resin, said dispersion comprising a volatile content of at least 80% by weight and being of such thinness as to provide a relatively fine oil-in-water emulsion in which the tiny droplets of organic solvent containing the water-insoluble resin and water insoluble coloring matter comprise the disperse phase, the consistency of the emulsion being such that the liquid will enter the capillary spaces of the textile material, whereby the droplets of organic solvent containing dissolved water-insoluble resin and water-insoluble coloring matters are adsorbed by the textile material due to the high affinity of the organic solvent for the textile material, and drying the material to leave a thin coating of resin and coloring matter on the discrete fibers of the material without materially affecting its porosity.

The interference involves a patent of appellant, No. 2,334,199, dated November 16, 1943, upon an application, Serial No. 288,588, filed August 5, 1939, and assigned to Copeman Laboratories Company of Flint, Michigan, and an application of appellee, Serial No. 510,512, filed November 16, 1943, as a continuation of an application No. 298,764, filed October 10, 1939. The application is assigned to Interchemical Corporation of Ohio. Both parties took testimony, filed briefs and were represented by counsel at the final hearing.

Appellant, in his preliminary statement, alleged the first written description, disclosure of the invention to others, reduction of it to practice and the beginning of exercise of diligence as of July 9, 1934. The preliminary statement filed on behalf of appellee alleged first disclosure, written description, and reduction to practice of the invention together with the beginning of the exercise of reasonable diligence in adapting and perfecting the invention as of May 31, 1938.

Appellant moved to dissolve the interference as to counts 1, 2 and 4 for the stated reason that they are unpatentable to appellee over certain prior art and that appellee was guilty of laches because of his failure to copy the claims constituting the counts of the interference in his original pending application with required promptness and diligence until an unreasonable length of time after he had notice of the allowed claims of appellant and after public use of the subject matter of the counts.

The Primary Examiner denied the motion to dissolve, stating that in the preliminary statement of appellee completion of the involved invention was alleged to be prior to the filing date of appellant. He pointed out that a preliminary statement has the same effect as an affidavit under Rule 75, Rules of the Patent Office, and that the allegations in such statement constitute a prima facie case.

The Examiner denied the motion with respect to laches, holding that the question of when appellee knew of appellant's claims and his diligence thereafter was a subject upon which testimony would have to be taken and that it could then be considered in connection with the determination of priority.

The involved invention is an improvement in the art of treating textile fabrics by a process of pad dyeing or "padding." It appears that when cloth is so processed, it is given a uniform continuous color by having had it immersed in a thin watery fluid, known as padding liquor. The cloth to be treated travels under a revolving roller in a trough containing the colored padding liquor. After the cloth passes through the liquor, it is squeezed between rollers so that the excess liquor may be removed. The cloth, which is then colored, is passed through a heater where it is dried. It is said that prior to the present invention, the padding liquor employed for the above mentioned purpose consisted of soluble dye stuff in a solvent.

The padding liquor of the counts is an oil-in-water emulsion, the inner oil phase of which is made of tiny droplets of an organic solvent having a resinous substance, which contains coloring material dissolved therein. The process defined by the counts results in the binding of the coloring matter around the fibers of the material with the resinous substance in the form of a thin substantially continuous film.

The filing date of the involved application is the same as the date of appellant's patent, and appellee being the junior party had the burden of proving priority of invention by a preponderance of the evidence. The Board, after analyzing the evidence offered on behalf of appellee, held that invention of the involved counts was conceived and reduced to practice by him on May 31, 1938.

Appellee is a graduate engineer and during his employment by Aridye Corporation (wholly owned by appellee's assignee) he and other chemists were employed in a small laboratory of the Aridye Corporation at Fairlawn, New Jersey. The business of that corporation when appellee entered its employment in February 1938 was the manufacture and sale of inks for use in the printing of textiles. Included in the equipment at the Aridye Laboratory was a pad dyeing apparatus. Appellee had charge of the development of textile printing inks, which consisted of thick, pigmented water-in-oil emulsions. In the course of chemical experiments conducted at his home and in connection with certain experiments with cosmetic formulations, appellee applied the technique he used with respect to his cosmetic formulations in the preparation of an oil-in-water dye bath for textiles. On May 31, 1938, appellee pad dyed cloth in the padding apparatus of the Aridye Laboratory in the presence of fellow employees, the padding liquor consisting of pigmented oil-in-water emulsion.

The personnel of the subsidiaries of Interchemical Corporation, engaged in development work, were furnished, in accordance with the corporation's business system, blank forms directed to the patent department for the purpose of being filled out with a brief description of any development deemed of sufficient importance for the filing of a patent application. Appellee filled out such form and signed it on September 12, 1938. The form was also signed by his superior and another chemist, both of whom had witnessed the above mentioned padding operation by appellee.

The description of the invention, as set out in the form, is of the type defined by the involved counts and it is further stated on the form that the invention was described in writing on May 31, 1938, in a notebook of appellee. It appears that there is a system in vogue at the Aridye plant by which reference to materials employed in formulations is made in certain code numbers and in accordance with such system most of the constituents of appellee's formulations were so noted.

A plant run of the process was made August 12, 1938, in the dye works of the Glasgo Finishing Company which is an independent company and whose business is pad dyeing of textile fabrics. That run was a pad dyeing operation on a commercial scale with the oil-in-water emulsions of appellee's application. A sample of a commercial fabric made in that run is in evidence and the test made on it was demonstrated to be successful.

The evidence of appellee was amply corroborated so it is clear to us that the Board did not err in holding appellee to be entitled to the date of May 31, 1938, for both conception and actual reduction to practice of the invention defined by the involved counts.

It appears that appellant was employed in research work by Dr. Bartell, Professor of Chemistry at the University of Michigan, from which appellant received his degree of Doctor of Chemistry. His work with Dr. Bartell began about July 1, 1933, and continued until about September 1, 1934. In July appellant was working on a method of finishing fabrics in accordance with a process subsequently shown in the Bartell patent, No. 2,097,012, dated October 26, 1937, upon an application, Serial No. 743,090, filed September 7, 1934. In the Bartell method fabric is treated with a resinous oil-in-water emulsion containing no added coloring. During the research work, it was discovered that the resins in the Bartell emulsion imparted a yellowish cast to fabric intended to be used as shoe lining. That color was objectionable and in order to mask it, a very small quantity of dye stuff was added to the Bartell emulsion. Appellant's work and the results thereof were recorded in his notebook. We think it is fair to state that the treating of shoe lining with the coloring matter added to the Bartell emulsion must be held to be a failure for the reason that it appears in the notebook of appellant that there was no advantage in attempting to color shoe lining. There is no further reference subsequent to the date of that entry in the notebook relating to the addition of coloring matter to the emulsion of Bartell. The record shows some statements to the effect that fabrics had been treated hundreds of times between 1934 and 1939,

but there was no evidence introduced to support those statements and no samples of such treated fabrics were produced. Therefore, we may properly state that such evidence was "lacking in the definiteness required in interference proceedings on vital matters, * * *." *Keefe* v. *Watson*, 31 CCPA (Patents) 1080, 1086, 142 F.2d 283, 286, 6 USPQ 44, 565 O. G. 523.

Appellant and Dr. Bartell have testified, but not definitely nor clearly, that compositions disclosed in the Jennings patent had been used commercially during a period beginning in September 1934. They stated that the Sherwin-Williams Company had manufactured such compositions but it was finally admitted that they contained no added coloring matter and were in fact the formulations of the Bartell patent. It may be noted that the only difference between the formulations of the Bartell patent and those of the patent of appellant is that the latter contains added coloring matter.

The successor of appellant in the laboratory of Dr. Bartell testified that the aim of his research was to produce white treated cloth and that was the problem given to him by Dr. Bartell. It appears that the cloth, treated by the witness with the Bartell oil-in-water emulsion, similarly to the shoe lining worked upon by appellant, was tinged with a yellowish color from the resins employed in the padding material, and in order to counteract that unsought hue there was added to the resin solution a blue oil soluble dye. Apparently the witness was working on the same problem as was his predecessor, the appellant. Throughout the record it appears that the main efforts of appellant, his successor and Dr. Bartell were directed to the elimination of the yellowish color and the production of a "bleaching white" or a "blue white" in their treated fabric.

Appellant introduced in evidence some light blue colored cloth which he stated had been made by him in the year of 1947, using his method. However, such work was ex parte in character and may not be considered by us as proof of a reduction to practice alleged to have been made about 13 years prior to that date. *Carson* v. *American Smelting & Refining Co.*, 4 F.2d 463 (C. C. A. 9th, 1925).

The dye stuff said to have been used in the ex parte dyeing work was "Sudan Blue GA." Such dye, as noted in appellant's notebook and his use of it on July 9, 1934, indicates that the experiment then conducted was not successful for the reason that the dye stuff "Had a tendency to rise in the foam and make material spotty even though dilute."

We think it is reasonable to believe that appellant, prior to the year 1939, did not feel that his work had been successful. He did not file his application until that year, and accounted for the delay by stating that he was simply a chemist and could not decide whether a thing was patentable or not and that he did not personally feel that anything that had been done was carried to the point where it was ready for a patent application.

It appears that appellant is a prolific inventor in several different arts. Between the years of 1934 to and including 1939, he made application for and had subsequently granted five different patents: one relating to Tensioned Yarn and Thread and Method of Forming Same; a second, in which he was a co-inventor, relating to Refrigerating Apparatus; another for a Recovery Apparatus for the recovery of solvents from substances or materials treated with a solution of a resinous substance; a fourth, a Plant Watering Apparatus which disclosed a device for supplying water to growing plants; and a fifth, as a co-inventor, for a patent on a Diaphragm and Method of Forming Same, relating to the fabrication of diaphragms, such as fuel pump diaphragms. Therefore, it is apparent that appellant was well aware of the importance of patent protection.

In April of 1939, appellant met some of the principals of the Aridye Corporation and collaborated closely with them in their research. It is reasonable to infer that he must have learned of the results obtained in such research by means of pad dyeing with a pigmented oil-in-water emulsion. It does not appear that appellant ever had any personal contact with appellee. It was after such collaboration that appellant's application was filed. We think that the long delay by appellant in filing his application after his alleged conception and reduction to practice indicates that such work was nothing more than an abandoned experiment. *Tinnerman* v. *Kost*, 29 CCPA (Patents) 1259, 129 F.2d 725, 54 USPQ 413, 545 O. G. 445; *Stenger et al.* v. *Holmes*, 26 CCPA (Patents) 1224, 103 F.2d 410, 41 USPQ 495, 507 O. G. 1037; *Whitehead* v. *Diamond*, 25 CCPA (Patents) 1357, 97 F.2d 604, 38 USPQ 126, 497 O. G. 772.

Appellant while at Fall River, Massachusetts, in 1935, experimented in the treatment of a cord used by florists. A broker who was retailing a green cord, called "Florist Twine," told appellant that the color on the cord was produced by vat dyeing. He said the yarn was made in one place, then vat dyed and packed in another place. Appellant testified that he added an oil soluble dye to one of his solutions and thus produced a green treated cord. We are of opinion that appellant's production of such cord in the manner in which he states can not be held to be proof of a reduction to practice of the invention defined by the counts. Counts 2, 3 and 5, specifically, call for a fabric, and it seems to us that counts 1 and 4, which relate to the treatment of textile materials, must be interpreted as meaning more than a yarn or a cord. The expressions, "fabric" and "textile material," are used synonymously in counts 3 and 5, and in our opinion have the same relationship in appellant's patent which refers to a "fabric or textile material."

Viewing the record on behalf of appellant in its most favorable aspect, we think that it does not properly show anything more than a mere accidental practice which does not constitute reduction to practice. *Janette* v. *Folds et al.*, 17 CCPA (Patents) 879, 38 F.2d 361, 363, 4 USPQ 360, 395 O. G. 1136.

Counsel for appellant in their brief before us challenged the award of priority by the Board on the ground that appellee failed to establish reduction to practice prior to appellant's filing date; that appellee was guilty of laches; and that he had failed to test the fabrics which had been pad dyed by his method.

[1] It is true, as stated by counsel for appellant, that the Board said nothing in its decision with respect to laches. Counsel for appellee state in their brief that the reason why the Board did not discuss laches is to be found in appellant's brief before the Board, in which it was admitted that "the rules permit copying of the claims within a year of the issue of a patent." The admission has not been challenged by counsel for appellant.

There can be no question but that the original application of appellee was expeditiously filed. The invention form was received by the head of the patent department of Interchemical Corporation on September 23, 1938. A search of the prior art was then undertaken, resulting in the discovery of the Bartell patent, which, incidentally, issued to the Copeman Laboratories Company. Appellant claims that the involved invention is an improvement over the disclosure of the Bartell patent. To investigate the Bartell patent, in order to determine whether or not the involved invention distinguished over it, was reasonable and proper. This was done, and because counsel for appellee had a doubt in the matter, he recommended that a license under the Bartell patent be secured by his principal. That license was executed in June 1939, and the draft of the application was started on August 16, 1939, the application completed on October 4 and executed on October 5 of that year. It was filed in the Patent Office on October 10 and prosecuted diligently therein, and on May 18, 1943, was allowed with three claims.

Subsequent to the allowance of the parent application of appellant and close to the date upon which payment of the final fee was due, counsel for appellant showed counsel for appellee the allowed claims of the Jennings patent. Counsel for appellee made copies of those claims subsequent to the date on which the final fee of appellant's application had been paid.

The claims which had been allowed to appellant were shown to counsel for appellee on October 12, 1943, who decided, after consultation with outside counsel, that the time was too short to attempt to secure those claims in the pending application of appellee, and that a continuing application should be filed. The involved continuing application was filed, and the parent application permitted to become forfeited. It appears that the filing of the continuing application was explained to and approved by counsel for appellant. When filed, the continuing application contained claims of the same scope as, but in different language from, the allowed claims of appellant, and after the patent of appellant issued, claims corresponding to the counts were copied by appellee in strict accordance with the rules prescribed by the Patent Office. As properly pointed out in the brief of counsel for appellee, "The correctness of the procedure determined upon and followed by counsel for Hill is shown by the fact that it was necessary for Hill to appeal to the Board of Appeals to obtain the claims forming the counts of this interference." Therefore, we can not agree with the contention of counsel for appellant that appellee "circumvented" the declaration of an interference by the Patent Office between the application of appellant and that of appellee. The record shows that during the time the assignees of the parties were apparently on friendly terms, it was agreed between counsel that both applications should be filed and an interference declared to determine priority. It seems to us that what they desired to have done has been done. An interference has been declared and priority of invention has been determined by the Board of Interference Examiners.

With respect to the contention that appellee had failed to test fabric that had been pad dyed by his method, it appears that fabric dyed according to the method defined by the counts was tested by the Better Fabrics Testing Bureau, the official laboratory of the National Dry Goods Association. A report of such testing was made to Aridye under date of April 11, 1939, admittedly prior to any communication by appellant to Aridye Corporation of any of his formulations. A copy of that report was filed by appellant with an affidavit executed by him on July 7, 1942, for the purpose of convincing the Patent Office that fabric dyed by appellant's method met the tests. The report states as follows:

> The green cotton sheer fabric color is resistant to the most severe cotton wash test—that it did not show fading or staining in comparison with original sample of material—when laundered at 212° F. temperature in alkaline soap suds containing 1% available chlorine for a period of one hour. In sunlight tests—200 hours of fadeometer exposure—no fading tendency was observed.
>
> The dye is reported as having excellent fastness, rating as one of the most durable textile dyeings.
>
> BETTER FABRICS TESTING BUREAU, INC.
> Official Laboratories (N. R. D. G. A.)

We have no doubt that the said testing made of the fabric was amply sufficient.

The Board of Interference Examiners considered in great detail the record of appellant and properly stated, in our opinion, that, in view of all the circumstances, appellant could not be considered to be in possession of the subject matter defined by the quoted counts earlier than the date of appellee's actual reduction to practice. It seems to us, as was observed by the Board, that appellant apparently attached much greater importance to his early experiments after having learned of appellee's development, and in effect was spurred into activity upon learning of the work of appellee.

[2] The decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

By reason of illness, HATFIELD, *J.*, was not present at the argument of this case and did not participate in the decision.

U. S. Court of Customs and Patent Appeals

IPPOLITO *v.* NANCY ANN DRESSED DOLLS, ETC.

No. 5694. Decided June 30, 1950. Petition for rehearing denied Sept 29, 1950

[184 F.2d 201; 87 USPQ 98]

1. TRADE-MARKS—DESCRIPTIVE OF CERTAIN CLASS OF ARTICLES ONLY.

While the mark "Nursery Rhymes" is not considered descriptive of dolls generally, *Held* that it is considered suggestive of a class of dolls in particular.

2. SAME—CONFUSION OF THE PUBLIC—MARK GENERIC TO OPPOSER'S MARKS.

Since the mark "Nursery Rhymes" is generic to the specific marks registered to the opposer, *Held* that confusion as to the origin of the goods of the parties would follow if registration were granted to the applicant.

3. APPEAL TO THE U. S. COURT OF CUSTOMS AND PATENT APPEALS—TRADE-MARK OPPOSITION—OPPOSER CAN NOT CHALLENGE REJECTION.

Since the Commissioner of Patents represents the public in deciding whether or not a mark shall be registered *Held* that an opposer has no right to challenge before this court an ex parte rejection of a trade-mark registration by the Commissioner.

APPEAL from the Patent Office. Opposition No. 24,874.

AFFIRMED.

J. Calvin Brown (*Francis D. Thomas* and *Harry W. F. Glemser* of counsel) for Ippolito.

Hugh N. Orr for Nancy Ann Dressed Dolls, Etc.

JACKSON, *J.*:

This is an appeal in a trade-mark opposition proceeding from a decision of the Commissioner of Patents, 77 USPQ 545, affirming that of the Examiner of Interferences sustaining a notice of opposition filed by appellee against the registration by appellant of the trade-mark "Nursery Rhymes," as applied to dressed dolls for children, under the Trade-Mark Act of 1905.

It appears that appellant, doing business under the fictitious name and style of Hollywood Doll Manufacturing Company of Glendale, California, filed an application for registration of his mark on March 25, 1945, alleging continuous use, as applied to said goods, since November, 1944.

On January 2, 1946, appellee filed its notice of opposition. It appears to be based upon the confusion-in-trade clause of section 5 of the Trade-Mark Act of 1905.

Appellee has its principal place of business in San Francisco, California, and manufactures, sells and distributes dressed dolls and doll clothes. It is the owner of the following registered marks, all applied to dressed dolls:

	Registration No.	Registration Date
"STORYBOOK"	389,114	July 22, 1941
"POLLY PUT KETTLE ON"	395,453	May 26, 1942
"LITTLE BO PEEP"	395,454	May 26, 1942
"TO MARKET"	403,235	Sept. 14, 1943
"ONE-TWO"	403,237	Sept. 14, 1943
"SUGAR AND SPICE"	403,240	Sept. 14, 1943
"RING AROUND A ROSY"	403,241	Sept. 14, 1943
"BOY BLUE"	404,575	Dec. 17, 1943
"CURLY LOCKS"	404,581	Dec. 7, 1943
"MOTHER GOOSE"	413,233	April 17, 1945

and many other marks of similar character not necessary to set forth.

Testimony was taken on behalf of appellee and many exhibits were filed. Appellant took no testimony. Briefs were filed by both parties and they were represented at the hearing before the Examiner.

It appears that the dressed dolls of appellee were first made by Miss Nancy Ann Abbott. From early girlhood she has been interested in dolls and the various personages and characters named in nursery rhymes, fairy tales or children's stories which appealed to her imagination and resulted in her making and dressing little dolls portraying the various characters as she imagined them to look. As early as about 1935 or 1936 she started the making and dressing of such dolls as a commercial undertaking so that eventually the business grew until about 5,000 of such dolls per day were being produced and sold in interstate and foreign trade. Miss Abbott personally designs all of the dresses of dolls sold by appellee and she is the planner and supervisor of their manufacture.

It is Miss Abbott's view that little girls fancy the collection of a family of dolls and in the pursuit of such hobby they endeavor to increase their collection until they are surrounded by as many of the dolls as they may be able to get, all appealing to their imagination as personifying figures of nursery rhymes, fairy tales and storybooks. Each little doll, she believes, makes real to its childish owner the person or character which is portrayed by it. Each doll is identified with its name on a little gold colored label attached to a wristlet and is encased in a box upon which a similar silver label is fastened. The labels contain excerpts from, or slightly modified selections of nursery rhymes from which the name of the individual doll is taken.

Buyers of department stores testified that appellee and others have sold dolls depicting characters in nursery rhymes and storybooks, as well as dolls intended to represent different characters in literature, history and nationality. Such practice has been stated to be widely known and such sales have been quite general.

The Examiner of Interferences pointed out that in the notice of opposition it was alleged that appellant's mark "is a generic term" and that it "cannot serve to identify its goods to the exclusion of the like products of opposer, * * *." He held that even though the expression "Nursery Rhymes" had not been shown to have been used by appellee other than orally, that such mark "is generically descriptive of the entire line of dolls sold by the opposer under the names of nursery rhyme characters," and that therefore appellee and its customers are entitled to use the designation "Nursery Rhymes" to identify their line of dolls representing characters from "Nursery Rhymes." The Examiner was of opinion that the exclusive use by appellant of its mark sought to be registered would inevitably lead to confusion and deception of purchasers, resulting in injury to opposer and that under such circumstances it was immaterial that opposer had not used such expression. In support of that holding the Examiner cited the cases of *Burmel Handkerchief Corp.* v. *Cluett, Peabody & Co., Inc.*, 29 CCPA (Patents) 1024, 127 F.2d 318, 53 USPQ 369; and *Martell & Co.* v. *Societe Anonyme de la Benedictine, Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp*, 28 CCPA (Patents) 851, 116 F.2d 516, 48 USPQ 116.

The Examiner further rejected the registration ex parte, for the stated reason that the mark would be understood by the purchasing public as referring to any and all doll reproductions of fictional characters from "Nursery Rhymes" as a class. He held that every producer of dolls had the right freely to make and sell his conception of "Nursery Rhyme" characters familiar to everyone from childhood days and that the common right to make any article is inseparable from the right to use words which aptly describe it, citing *Singer* v. *June*, 163 U. S. 169; *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538. He therefore held that the descriptiveness clause of section 5 of the involved act was deemed to constitute a bar to the registration of appellant's mark.

On appeal the Commissioner sustained all of the reasoning advanced by the Examiner of Interferences.

We are of opinion that the decision of the Commissioner is without error.

[1] While we do not consider the mark "Nursery Rhymes" descriptive of dolls generally, we do consider it highly suggestive of a class of dolls in particular. [2] The suggestive mark "Nursery Rhymes" is generic to the specific marks registered to appellee, each of which is individually suggestive of a segment of the group of which appellant's contested mark is suggestive. It is apodictic, in our opinion, that confusion as to the origin of the goods of the parties would follow if registration were granted to appellant. "Boy Blue," "Little Miss Muffett," "To Market," "Polly Put Kettle On," to mention just a few of the registered marks of appellee hereinbefore set out, are certainly "Nursery Rhymes." Clearly then, likelihood of confusion would follow upon the registration of "Nursery Rhymes" to appellant with consequent damage to the appellee.

[3] Both appellant and appellee are in accord in challenging the action of the tribunals of the Patent Office in the rejection of the registration of the mark ex parte. Appellant, in this case, can properly bring that issue before this court on appeal. Appellee, however, is not the public and therefore has no right in circumstances such as appear here. The Commissioner of Patents represents the public and has the right and duty, in safeguarding public interest, to device whether or not an applicant has a right to register. *Schering and Glatz, Inc.* v. *Sharpe & Dohme, Inc.*, 32 CCPA (Patents) 827, 146 F.2d 1019, 64 USPQ 394; *Columbia Broadcasting System, Inc.* v. *Technicolor Motion Picture Corp. et al.*, 35 CCPA (Patents) 1019, 166 F.2d 941, 77 USPQ 160.

It has been held so often by this court, that it is not only the right of the Examiner but his duty to consider and determine the registrability of a mark ex parte without reference to the issues raised in the notice of opposition, as to be trite. Our holding in the case of *Revere Paint Co.* v. *20th Century Chemical Co.*, 32 CCPA (Patents) 1096, 150 F.2d 135, 66 USPQ 65, reaffirmed that principle in the many cited cases appearing in that opinion.

For the reasons hereinbefore set out, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

O'CONNELL, *J.* (dissenting):

Numerous fallacies in the court's decision in this case are explicitly disclosed in authoritative detail (1) by the following opinion prepared and submitted months ago with the view that it would be adopted as the majority opinion, and (2) by the citations following that opinion which point to the entirely contradictory attitude of the court not only in the case at bar but also in other cases upon which the court has relied.

It should be noted at the outset that the majority opinion states that—

> On appeal the Commissioner sustained all of the reason ing advanced by the Examiner of Interferences.

The Commissioner, however, reversed the Examiner's decision which held that the marks were confusingly similar, 77 USPQ 545, 546, column 2, lines 15–18, as hereinafter pointed out. The majority opinion also stated that—

> While we do not consider the mark "Nursery Rhymes" descriptive of dolls generally, we do consider it highly suggestive of a class of dolls in particular.

A term merely descriptive of an article cannot at the same time be merely suggestive of it. *In re One Minute Washer Company*, 25 CCPA (Patents) 978, 95 F.2d 517, 37 USPQ 203; *Celanese Corporation of America* v. *E. I. Dupont De Nemours and Company*, 33 CCPA (Patents) 948, 950, 154 F. 146, 69 USPQ 101.

The question is whether the decision of the Commissioner of Patents, 77 USPQ 545, correctly sustained the action of the Examiner of Interferences who, in an opposition proceeding, refused to register appellant's trade-mark "Nursery Rhymes" for use with dolls under the Trade-Mark Act of 1905. The opposition was based on the ground that such registration would damage appellee, the owner and prior user on dolls, not only of the registered marks "Storybook" and "Mother Goose" but also of thirty-six illustrative and additional registered marks bearing the names of nursery rhyme and story book characters.

Regarded as typical of appellee's pleaded marks are those affixed to its dolls bearing names and extracts from nursery rhymes of Mary Had a Little Lamb, Little Miss Muffet, Old Mother Hubbard, Little Bo Peep, and One-Two, Button My Shoe. The record discloses that the trade-mark as actually used by each of the parties is applied to the goods, or to the packages containing the same, by placing thereon a printed label on which the trade-mark is shown.

The notice of opposition, among other things, provided that the concurrent use of the contested

marks on the dolls in issue "is likely to cause confusion in the trade and mistake in the mind of the purchasing public and so deceive purchasers regarding the origin of the goods," and that "Nursery Rhymes," appellant's mark, "is a generic term applicable to the nursery rhyme names, characters and expressions used by opposer upon its doll products as above set forth; and that concurrent use of applicant's [appellant's] mark 'Nursery Rhymes' and opposer's above listed marks upon substantially identical goods will confuse the trade and the purchasing public."

Only appellee took testimony but both parties filed briefs and were represented at the final hearing.

The Examiner held that while the expression "Nursery Rhymes" did not appear ever to have been used by appellee's organization other than orally, nevertheless the term was unregisterable since it consisted of words merely descriptive of the entire line of dolls sold by appellee under individual names of nursery-rhyme characters.

In addition to finding that appellee was entitled to maintain its opposition on the ground of descriptiveness, in accordance with appellee's notice of opposition, the Examiner stated that under the authorities, and without reference to the issues raised by the notice of opposition, it was not only his right but also his duty to proceed ex parte to consider appellant's mark and refuse to register the same because the mark was merely descriptive of any and all of the fictional characters of nursery rhymes as a class.

The Commissioner of Patents held that "While none of opposer's marks as such appear to resemble 'Nursery Rhymes' either in sound, appearance or meaning, it is my opinion that the Examiner of Interferences correctly found as alleged by opposer that the expression 'Nursery Rhymes' is a descriptive or generic designation of an entie line of dolls sold by opposer," and for that reason registration of the term "Nursery Rhymes" was prohibited by the mandate of the statute.

The Commissioner held further that under the authorities the Examiner was required in this and other appropriate cases to consider the applicant's mark ex parte and refuse the registration thereof when the mark was merely descriptive of the merchandise with which the mark was used, and there was no doubt in the Commissioner's mind as to the correctness of the ex parte holding of the Examiner of Interferences that the term "Nursery Rhymes" was descriptive of dolls and every producer of dolls was entitled freely to use those words in describing the goods he may offer for sale.

Rule 26.3 of the Rules of Practice of the United States Patent Office relating to trade-marks does not provide for separate appeals to the Commissioner from the decision of the Examiner of Interferences by any party on inter partes issues, as distinguished from ex parte issues, in an interference, opposition, cancellation, or a concurrent use proceeding; and rule 26.4, bearing the title "Appeal to court," so far as here pertinent, likewise makes no such distinction between inter partes and ex parte appeals and reads as follows:

> Any applicant for registration * * * or any party to an inter partes proceeding, who is dissatisfied with the decision of the Commissioner, May appeal to the United States Court of Customs and Patent Appeals or may proceed under section 4915, Revised Statutes (U. S. Code, title 35, sec. 63) * * *.

There is no doubt that appellant has the right to here appeal not only on the issue of descriptiveness decided in the inter partes proceeding but also on the same issue in the ex parte proceeding. Appellee has taken no appeal from the decision of the Commissioner of Patents. However, for the purpose of appeal, his status as opposer is here preserved.

Appellant assigns as its reasons of appeal, among other things, that the Commissioner of Patents manifestly erred in sustaining the opposition in the inter partes proceeding on the ground that appellant's mark "Nursery Rhymes" was descriptive and likely to cause confusion in trade; that the Commissioner manifestly erred in holding ex parte to the same effect, and that:

> 4. The Commissioner manifestly erred and is inconsistent in holding that "none of opposer's marks as such appear to resemble 'Nursery Rhymes' either in sound, appearance *or meaning*," and at the same time holding that the expression is a "generic designation of an entire line of dolls sold by opposer." [Italics quoted.]

Appellee contends that the holding of both the Examiner of Interferences and the Commissioner of Patents that "Nursery Rhymes" as employed in appellant's mark "is descriptive of dolls, and for that reason unregistrable" was "neither necessary nor proper in the case, and is believed to be unsound." In support of its position on the point in question appellee asserts:

> * * * The descriptive proviso of section 5 of the act of February 20, 1905, applies only to marks which are descriptive of the *goods*, or their *character* or *quality*. Opposer agrees with applicant that the mark "NURSERY RHYMES" does not describe either the goods or the character or the quality thereof. So far as the trade-mark is concerned, it does not indicate whether the goods are dolls, or wearing apparel, or breakfast food. As to character, the mark does not indicate whether the goods are dressed or undressed dolls, or if they are printed cut-outs, or textiles, or ceramics, or jewels, or some other kind of product. As to quality, there is nothing to indicate whether the products are penny paper prints or costly collector's items. On broad principles alone, it is believed that the ruling that "NURSERY RHYMES" is descriptive is erroneous. [Italics quoted.]

The generic name or descriptive word applicable to the article here in issue is the term "doll." The term "Nursery Rhymes" consists of words not primarily descriptive of dolls, but, when applied to dolls, they shed light upon the characteristics of the goods in a suggestive or figurative sense which is not merely descriptive of dolls within the purview of the statute.

The court in the recent case of *Jewel Tea Co., Inc.* v. *Kraus*, 84 USPQ 219, 220, made the following statement of the law here applicable:

> It is a settled rule that no one can appropriate as a trade-mark a generic name or descriptive word in the absence of secondary meaning. A generic name gives information as to the nature or class of article and a descriptive word supplies the characteristics and qualities of the article, its color, order, functions, dimensions, and its ingredients. * * *

Appellee is not the actual originator of the nursery rhymes or the names of the fanciful characters about whom the rhymes were written for the entertainment and edification of children. Appellee's assignor, Nancy Ann Abbott, was interested from childhood in dolls and as a girl would make and dress various characters as she in her imagination visualized them as figures in nursery rhymes, fairy tales, or in children stories which appealed to her.

What was originally the hobby of its founder, has thus grown into a large and successful business:

> Starting very modestly with an output of only a few dolls made by Miss Abbott herself, the business has grown to a point where opposer has produced around 5,000 dolls per day * * *. Miss Abbott personally has designed the costumes for all of the dolls made by her organizations, and has planned and supervised their manufacture * * *. The business is one of which she is justly proud; and each little doll is a creation of her own, of which she is properly jealous.

There is no question that appellant is entitled to produce and sell dolls since nursery rhymes and the imaginary individuals and creatures who populate the folklore of childhood may be said to be a part of the national mythology. Figures and names taken therefrom obviously may be exploited with advantage in the sale of dolls for children. All vendors of such dolls have a measurable interest in the lawful use of those figures and names and appellee's right to exploit them to its commercial advantage is not an exclusive proprietary interest. See *Durable Toy & Novelty Corporation* v. *J. Chein & Co., Inc., et al.*, 133 F.2d 853, 855; 56 USPQ 339. See also *Taylor Instrument Companies* v. *Fee & Stemwedel, Inc.*, 129 F.2d 156, 54 USPQ 124, 126; *Egyptian Lacquer Mfg. Co.* v. *The Cleveland Varnish Co.*, 57 App. D. C. 352, 23 F.2d 773.

The very first proviso of section 5 of the Trade-Mark Act of 1905 embodies the Congressional mandate "That no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark." The Supreme Court in *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, held:

> * * * the requirement of the statute that no trade-mark shall be refused registration, except in designated cases, is just as imperative as the prohibition of the proviso against registration in cases specified.
>
> * * * * * * *
>
> Of course, refusal to register a mark does not prevent a former user from continuing its use, but it deprives him of the benefits of the statute, and this should not be done if it can be avoided by fair, even liberal, construction of the act, designed as it is to promote the domestic and foreign trade of our country.

The record discloses that the faces of appellee's dolls, in general, were very much alike and that the dolls of the "Storybook Series" were alike except for costume There is no evidence regarding the nature of the dolls sold by appellant other than the impression to be drawn from the term which he seeks to register. That term when used as a trade-mark obviously distinguishes appellant's goods from other goods of the same class sold by appellee, and under the authorities hereinbefore cited appellant was entitled to registration of his mark.

The Commissioner in the instant case decided the issue not only on an inter partes basis but also on an ex parte basis. There is no occasion therefore to discuss the nature of those proceedings as the applicable law is the same in both proceedings. *In re Keller, Heumann & Thompson Co., Inc.*, 23 CCPA (Patents) 837, 839, 81 F.2d 399, 28 USPQ 221; *In re Laskin Brothers, Inc.*, 32 CCPA (Patents) 820, 146 F.2d 308, 64 USPQ 225. However, the court has sought to bolster its position by dictum which shows numerous contradictions in its previous decisions, all of which have no bearing on the issue in the case at bar.

For example, this court in the exercise of its judicial prerogative has repeatedly and publicly admonished the tribunals of the Patent Office that the primary purpose of the Trade-Mark Act of 1905 was to safeguard the public interest and that, regardless of the issues raised by the notice of opposition, it was not only the right but also the duty of the Commissioner of Patents in an opposition proceeding to refuse to register any mark whose registration was prohibited by the mandate of the statute. *Dubonnet Wine Corp.* v. *Ben-Burk, Inc.*, 28 CCPA (Patents) 1298, 121 F.2d 508, 50 USPQ 76; *Englander, etc.* v. *Continental Distilling Co.*, 25 CCPA (Patents) 1022, 1024, 95 F.2d 320, 37 USPQ 264.

The case last cited is one of the leading cases on the point in question. There the court stated in part that:

> * * * *if an applicant's mark be identical with a registered mark owned by another, or confusingly similar thereto, and the goods of the applicant are of the same descriptive properties as those of the registrant, the application for registration should be denied, regardless of the issues raised by the notice of opposition.* * * [Italics supplied.]

Despite the mandate of the statute, and irrespective of the public interest and the doctrine hereinbefore described, this court in the exercise of its judicial prerogative has authorized the registration of an applicant's mark which was not only identical with a registered mark previously owned by another but which also was used by the newcomer on goods of identical descriptive properties. *Revere Paint Co.* v. *20th Century Chemical Co.*, 32 CCPA (Patents) 1096, 150 F.2d 135, 66 USPQ 65.

There the court authorized the registration of the involved mark with the recommendation that the original owner of the mark could thereafter bring an action for the cancellation of the mark thus registered by the authority of the court.

This court in an opposition proceeding has heretofore permitted, at least twice, the registration of trade-marks whose registration were prohibited by the mandate of the statute because, as stated in the opinion of the court, the opposer had failed to allege in its notice of opposition that the applicant's mark was merely descriptive of the goods with which the mark was used. *Hygrade Sylvania Corp.* v. *Sontag Chain Stores Co. Ltd.*, 29 CCPA (Patents) 799, 125 F.2d 389, 52 USPQ 349; *The Crown Overall Manufacturing Company* v. *Desmond's*, 37 CCPA (Patents) 182, F.2d 645, 86 USPQ 166.

The reason given for the action of this court in thus permitting the registration of prohibited marks was that neither the opposer nor this court repre-

sents the public interest relative to the registration of trade-marks and only the Commissioner can decide whether or not an applicant has a right to register.

That fallacy has been relied upon constantly by this court in the past in permitting the registration of prohibited marks. No consideration whatever has been given by the court to the fact that the sole and basic reason for the establishment and maintenance of this court is to safeguard the public interest. The statute explicitly provides that the court after hearing an appeal "shall return to the Commissioner a certificate of its proceedings and decision, which shall be entered of record in the Patent Office, *and shall govern the further proceedings in the case.*" R. S. 4914, 35 U. S. C. § 62. [Italics supplied.]

Moreover, discriminatory technicalities with respect to matters of form which always result in repetitious litigation are now outlawed by the Trade-Mark Act of 1946, which specifically provides:

SEC. 37. *In any action involving a registered mark the court may determine the right to registration,* order the cancellation of registrations, in whole or in part, restore cancelled registrations, and otherwise rectify the register with respect to the registrations of any party to the action. *Decrees and orders* shall be certified by the court *to the Commissioner, who shall make appropriate entry upon the records of the Patent Office and shall be controlled thereby.* [Italics supplied.]

The court hereinabove has discussed and passed upon the question of confusing similarity, despite the fact that appellee took no appeal from the decision of the Commissioner on that point and there are no reasons of appeal upon which the court has predicated its decision. A decision handed down simultaneously herewith holds that where there are no reasons of appeal, the court is without jurisdiction to consider any such issue. *Alumatone Corporation v. Vita-Var Corporation*, 37 CCPA (Patents) 183 F.2d 612, 86 USPQ 359.

The decision of the Commissioner of Patents, for the reasons hereinbefore stated, should be reversed.

U. S. Court of Customs and Patent Appeals

IPPOLITO v. NANCY ANN DRESSED DOLLS, ETC.

No. 5695. Decided June 30, 1950

[183 F.2d 623; 86 USPQ 389]

1. TRADE-MARKS—REGISTRABILITY—"TOYLAND" APPLIED TO DOLLS.

Although the term "Toyland" is a term in the public domain as applied to toy stores or toy departments. *Held* it is not descriptive of any particular toy product and, therefore, is subject to registration as a trade-mark applied to a doll.

APPEAL from the Patent Office. Opposition No. 24,875.

REVERSED.

J. Calvin Brown (*Francis D. Thomas* and *Harry W. F. Glemser* of counsel) for Ippolito.

Hugh N. Orr for Nancy Ann Dressed Dolls, Etc.

JACKSON, *J.*:

This is an appeal in a trade-mark opposition proceeding from a decision of the Commissioner of Patents, 77 USPQ 547, affirming that of the Examiner of Interferences sustaining an opposition filed by appellee against the registration by appellant of the trade-mark "TOYLAND," as applied to dolls, pursuant to the Trade-Mark Act of 1905.

It appears that appellant, doing business under the fictitious name and style of Hollywood Doll Manufacturing Company, filed his application for registration, Serial No. 481,229, on March 23, 1945. The mark was passed for publication and appeared in the OFFICIAL GAZETTE of the Patent Office on December 4, 1945.

Appellee's notice of opposition is dated January 2, 1946. It alleged, as one ground for denying registration, that the mark sought to be registered so nearly resembles trade-marks of appellee for the same kind of goods as to be likely to cause confusion in trade. The registered marks of appellee relied upon are:

STORYBOOK	Reg. No. 389,114	July 22, 1941
LITTLE BO PEEP	Reg. No. 395,454	May 26, 1942
BOY BLUE	Reg. No. 404,875	Dec. 7, 1943
CURLY LOCKS	Reg. No. 404,581	Dec. 7, 1943
MOTHER GOOSE	Reg. No. 413,233	April 17, 1945
MARY HAD A LITTLE LAMB	Reg. No. 414,597	June 19, 1945
BETTY BLUE	Reg. No. 417,245 (1920 Act)	Oct. 16, 1945

The following applications were also cited by appellee:

RED RIDING HOOD	Application filed March 8, 1944
FAIRYLAND DOLLS	Application filed June 19, 1945
FAIRYTALE DOLLS	Application filed June 19, 1945

A second reason alleged by appellee against the registration of appellant's mark is that the mark sought to be registered is commonly used to designate toy departments in general merchandising stores and therefore the mark is descriptive, in a general sense, of products, more specifically those of appellee, which are adapted for sale through such retail outlets.

The Examiner held that the application for registration of "FAIRYLAND DOLLS" and "FAIRYTALE DOLLS" could not be considered for the reason that those marks are subsequent in date to the use by appellant of his mark. The Examiner stated that as to the other marks relied upon by appellee, none so resembles the mark sought to be registered in appearance, sound, or meaning so as to be likely to cause confusion of origin of the goods of the respective parties.

The Examiner was of opinion that the exclusive use by appellant of his mark would be a restraint upon the rights of competitors, selling other toys, to employ commonplace language of description in merchandising their goods. He stated that "TOYLAND," in a very comprehensive sense, is descriptive of dolls and any other toy adapted for display and sale in the "TOYLAND" departments of stores and he then concluded that registration by appellant would be inconsistent with the right of dealers in toys, including appellee, in promoting their sales, to employ the term sought to be registered. Therefore he held that registration of appellant's mark would involve damage to appellee within the meaning of the statute. He sustained the notice of opposition and further adjudged that appellant was not entitled to his sought registration.

Upon appeal, the Commissioner affirmed the decision of the Examiner and further explicitly found, ex parte, that appellant is not entitled to the registration for which he made application.

It was noted by both the tribunals below that it was shown by testimony that the term "TOYLAND" is quite generally used in retail stores to identify that part of the store in which toys of various sorts are sold. That undoubtedly is a common practice in department stores. We agree with the tribunals below that such practice is a matter of common knowledge.

We cannot agree with the Examiner and the Commissioner that the term sought to be registered is generically descriptive of dolls and other playthings sold in the toy divisions of department stores. Clearly, the term "TOYLAND" is not descriptive of dolls in general or any other toy for sale in the toy department of any store. Moreover, the mark may not properly be held to be descriptive of the individual dolls manufactured by appellee. Therefore, we can see no reasonable likelihood of confusion in trade by the use by the parties of their respective marks as applied to identical goods.

The word "TOYLAND" we think, is a term in the public domain, but broadly descriptive of nothing more than toy departments and toy stores. Obviously, it is not descriptive of any particular product or line of toy products and therefore, in our opinion, is subject to appropriation and registration as a trade-mark, as claimed by appellant.

For the reasons hereinbefore set out, the decision of the Commissioner is reversed.

REVERSED.

U. S. Court of Customs and Patent Appeals

IN RE WARD

No. 5705. Decided June 30, 1950

[182 F.2d 1018; 86 USPQ 406]

1. PATENTABILITY—DESIGNS—INVENTION IN MANNER OF COMBINATION.

Held that even if each element in a claimed design is old, that fact of itself does not negative invention, for patentability may reside in the manner in which the elements are combined.

2. SAME—PARTICULAR SUBJECT MATTER—DESIGN FOR COIN HOLDER.

Held that the appellant's design for a coin holder is quite different from the cited art, individually or in combination and, thus, is the product of the inventive faculty and patentable over the prior art.

APPEAL from Patent Office. Serial No. D-126,597.

REVERSED.

Hyde, Meyer, Baldwin & Doran (*George S. Baldwin* of counsel) for Ward.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting appellant's application for a patent for an alleged invention relating to a "Design for a Coin Holder or Similar Article."

The references relied upon are: Strattan, 231,863, Aug. 31, 1880; Miller, 1,025,150, May 7, 1912; Wojciechowski, D-63,812, Jan. 15, 1924.

Appellant's coin holder is an elongated, flat-like, one-piece receptacle with straight and parallel side walls, rectangular top and bottom walls, and an open end to pass coins to and from the interior of the receptacle. The opposite end is closed by an arcuate member at the middle of which is provided an ear with a circular opening to receive a key chain. The rectangular top wall has a longitudinally disposed slot of substantial size with parallel sides and arcuate ends, the edges of which are beveled inwardly. The top and bottom walls are beveled at their ends merging harmoniously with the adjacent curved end closure which is open at the top and bottom.

The patent to Strattan relates to a ticket case and the drawings disclose a rectangular case containing a sliding drawer. The case has an oval opening in the face thereof, being open at one end for the movement of the sliding drawer therethrough.

The Miller patent relates to a coin holder for use in rural mail boxes. The drawings disclose a pair of pivotally connected channel-shaped jaws, the side flanges of the front jaw extending rearwardly and the side flanges of the rear jaw extending forwardly to provide a box-like receptacle. The jaws are connected on one end by a pivot pin and the other end is provided with a curved bail or handle used for the purpose of hanging the holder in a mail box.

The patent to Wojciechowski relates to a design for a document case. The drawings disclose front and rear sections hingedly connected at their straight lower ends and detachably connected at their upper curved ends with the edges of both sections beveled inwardly.

The Examiner considered appellant's coin holder to be of the general type depicted by Miller's coin holder with semicircular handle. He thought that Strattan's ticket case presented the general shape of the body of appellant's device, as well as the oval aperture on one side. The Examiner consequently held that invention was not involved in modifying Strattan by adding Miller's curved handle, or substituting Strattan's box for that shown in Miller. While the Examiner acknowledged that appellant's design presented a streamline appearance unlike Strattan, he considered the difference to lie within the reach of the average designer's skill, particularly in view of Wojciechowski's disclosure of beveled edges.

After the Examiner's final rejection of the claim, the appellant filed an affidavit in which he stated that coin holders conforming to his design were placed on the market in 1946, received immediate commercial success, and that since then more than three million of the coin holders have been sold.

Following the filing of the affidavit, the case was remanded to the Primary Examiner. In a supplemental statement the Examiner stated that appellant's affidavit relating to the commercial success of the coin holder had been considered, but that such an affidavit was persuasive only where there

was doubt as to patentability. Stating that there was no such doubt in the instant case, the Examiner again rejected the claim.

The Board held that appellant's coin holder has the general appearance of the Miller device, differing in detailed appearance from that coin holder in that the claimed design has an oval aperture in the top and is more regularly box-shaped. The Board thought that it would not involve invention to substitute Strattan's regularly shaped box with oval opening for the body of the Miller coin holder. Appellant's chain-attaching apertured extension, the beveling employed in his design, and the attachment of the ball in Miller's coin holder near the center of the body instead of the end were all considered by the Board to be mere details not changing the general appearance of the coin holders nor imparting patentability to the claim. As to appellant's proof of commercial success, the Board considered it not persuasive inasmuch as in its view there was no doubt as to the lack of invention over the references, and as it was not established that the alleged success was due to the aesthetic appeal of the coin holder.

Appellant's contention is that he has not merely combined parts of the references to form his coin holder, but rather has designed a coin holder entirely unlike any that could be designed by a combination of the references. He submits that he has invented a new design for a novel article of manufacture presenting an appearance which has aesthetic appeal.

[1] It is proper for the Patent Office tribunals to combine references for the purpose of showing lack of invention in applications for design patents, *In re Faustman*, 33 CCPA (Patents) 1065, 155 F.2d 388, 69 USPQ 541, 589 O. G. 493; *In re Eppinger*, 25 CCPA (Patents) 843, 94 F.2d 401, 36 USPQ 325, 492 O. G. 250; but even if each element in a claimed design is old, that fact of itself does not negative invention, for patentability may reside in the manner in which the elements are combined. The design as a whole, and the impression it makes on the eye must be considered. *In re Park*, 37 CCPA (Patents) —, 181 F.2d 255, 85 USPQ 278, 636 O. G. 395.

[2] A comparison of the drawings of appellant's application with the drawings of the cited references shows that appellant's coin holder is quite different from any of the cited references or any combination of the cited references. This is true when viewed from any angle. We think that appellant's design is novel and different, and not merely a modification of already-existing designs. The overall appearance of appellant's coin holder is distinctive, ornamental, and aesthetically pleasing. Moreover, we deem it the product of the inventive faculty. Under the statute, R. S. 4929, 4933, 35 U. S. C. 73, that is sufficient, *In re Johnson, Jr.*, 36 CCPA (Patents) 1175, 175 F.2d 791, 82 USPQ 199, 627 O. G. 911.

It follows from what we have said, that the decision of the Board of Appeals must be, and is reversed.

REVERSED.

U. S. Court of Customs and Patent Appeals

THE NATIONAL MINERAL COMPANY, ETC.

v.

THE NORWICH PHARMACAL COMPANY

No. 5708. Decided June 30, 1950

[183 F.2d 119; 86 USPQ 409]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—"SWAV" AND "SUAVE."
   Held that the marks "Swav" and "Suave" are similar in both sound and meaning and, thus, are not, in a trade-mark registration sense, legally distinguishable.
2. SAME—GOODS OF SAME DESCRIPTIVE PROPERTIES—HAIR DRESSING AND SHAVING CREAM.
   Held that hair dressing and shaving cream are both toilet preparations and, therefore, goods of the same descriptive properties.
3. SAME—OPPOSITION—SIMILARITY OF TRADE CHANNELS.
   Where appellant's hair dressing is sold to beauty parlors in small containers for sale to patrons and has been recommended for use by men, *Held* that it is adaptable for sale through the same media as the shaving cream of appellee.

APPEAL from Patent Office. Opposition No. 24,189.

AFFIRMED.

Maurice S. Cayne for The National Mineral Company, Etc.

E. F. Wenderoth for The Norwich Pharmacal Company.

JACKSON, *J.*:

This is an appeal in an opposition proceeding from a decision of the Commissioner of Patents, 78 USPQ 332, affirming that of the Examiner of Interferences sustaining an opposition by appellee to the registration by appellant of its mark "Suave" as applied to hair dressing and alleged to have been so used since on or about June 1, 1937.

The notice of opposition contains allegations relating only to the confusion-in-trade clause of section 5 of the Trade-Mark Act of 1905, as ground for denying the right of registration claimed by appellant.

Appellant took testimony to the effect that its product, hair dressing, was, at the time the testimony was taken, sold only in beauty shops for professional use and also in retail trade to the customers of those shops for personal use in the home. It appears that in promoting its business of selling hair dressing, the appellant focused entirely on feminine trade. However, it further appears in certain exhibits that appellant was striving to increase the use of its hair dressing among male users.

Appellee took no testimony, relying solely upon its trade-mark "Swav" shown in its Registration No. 252,066, dated January 22, 1929, as applied to "shaving cream to be used before shaving."

The sole issue before us is whether or not the marks of the parties are so similar that their concurrent use would be likely to deceive purchasers or confuse the mind of the public as to origin.

It is clear to us, as was held below, that the involved goods of the parties are toilet preparations Generally speaking, they are not used by the same individuals in that the hair dressing appears to be almost entirely used in the feminine trade whereas the shaving cream of appellant is strictly devoted to masculine use.

[1] That the marks are similar in sound is beyond question. "Swav" is the pronunciation of "suave," as shown by the dictionaries. That the marks are alike in meaning we think is clear, both indicating smoothness, sleekness and good grooming. Therefore, as far as the similarity between the marks is concerned, we deem that in sound and meaning they are not, in a trade-mark registration sense, legally distinguishable.

[2] The goods, in our opinion, possess the same descriptive properties. That holding is clearly in accord with the well settled authorities cited by the Commissioner in his decision, among which are the cases of *Campbell Products, Inc.* v. *John Wyeth & Bro., Inc.*, 31 CCPA (Patents) 1217, 143 F.2d 977, 62 USPQ 302, 568 O. G. 376; *McKesson & Robbins, Inc.* v. *First Texas Chemical Manufacturing Co.*, 34 CCPA (Patents) 877, 159 F.2d 770, 72 USPQ 494, 600 O. G. 170; *Annie M. Malone* v. *Morris Max Horowitz*, 17 CCPA (Patents) 1252, 41 F.2d 414, 5 USPQ 157, 399 O. G. 416.

We cannot agree with appellant's contention that for the reason its hair dressing is sold only through the medium of beauty parlors, as distinguished from the sale of appellee's shaving cream through drug stores and like vendors, there is no likelihood of confusion.

[3] It is clear from the record that the use of appellant's involved product is not confined solely to beauty parlors but is packed in small containers for sale to patrons of such parlors. It is further apparent that it has been recommended for use by men as a hair dressing. The question is not one of confusion between the goods as such but, as hereinbefore mentioned, the likelihood of confusion as to the source of the involved products of the parties. *Skol Company, Inc.* v. *Olson*, 33 CCPA (Patents) 715, 151 F.2d 200, 67 USPQ 96, 582 O. G. 491.

While at the time of taking of testimony and theretofore appellant confined its sales through beauty parlor channels, nevertheless, it is concededly a toilet preparation and quite adaptable for sale through the same media as the shaving cream of appellee. *General Foods Corporation* v. *Casein Company of America, Inc.*, 27 CCPA (Patents) 797, 108 F.2d 261, 44 USPQ 33, 515 O. G. 562.

For the reasons hereinbefore set out, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

G. H. PACKWOOD MFG. CO. *v.* THE COFAX CORP.

Nos. 5709, 5710, 5711. Decided June 30, 1950

[183 F.2d 196; 86 USPQ 410]

1. TRADE-MARKS—GOODS OF SAME DESCRIPTIVE PROPERTIES—CRITERIA.
   Held that goods of the same descriptive properties, in the statutory sense, include not only the same kind of things but also things entirely different from one another and the test to be applied is not the likelihood of confusion as to the difference in the goods but the likelihood of confusion as to the difference in ownership of two identical marks attached to the goods.
2. SAME—CONFUSION OF THE PUBLIC—EVIDENCE OF ACTUAL CONFUSION SIGNIFICANT.
   Held that uncontroverted evidence as to actual confusion in trade as a result of the concurrent use of the identical mark by the respective parties is not without significance on the question of the likelihood of confusion as to the use of the marks involved.
3. SAME—GOODS OF SAME DESCRIPTIVE PROPERTIES—OFFICE CLEANSERS AND ADHESIVE TAPE.
   Held that in view of the evidence presented the goods are, in a statutory sense, goods of the same descriptive properties and the decisions of the Commissioner are, accordingly, reversed.

APPEAL from the Patent Office. Opposition Nos. 24,197, 24,665, and 24,666.

REVERSED.

Rogers & Ezell (*Estill E. Ezell* of counsel) for G. H. Packwood Mfg. Co.

No appearance for The Cofax Corp.

O'CONNELL, *J.*:

There are here three appeals from decisions of the Commissioner of Patents rendered by him in three opposition proceedings. The goods involved consist of certain office supplies. One appeal is from the Commissioner's decision, 77 USPQ 329, in opposition No. 24,197, where the identical mark "Pax" was used on the goods by both parties; the other appeals are from the Commissioner's decision, 77 USPQ 331, in oppositions Nos. 24,665 and 24,666, where the basic feature of the mark "Pax" was incorporated in appellee's two marks, "Paxite" and "Paxomat," and used in the sale of its goods. All three oppositions were dismissed by the Commissioner.

The subject matter of the different controversies is closely related and but one record containing all the evidence has been submitted, much of which is overlapping. It is deemed appropriate therefore to consolidate the three appeals and discuss them in but one opinion.

These appeals involve the confusion-in-trade clause of section 5 of the Trade-Mark Act of 1905. The Commissioner in reaching his final conclusion in the opposition No. 24,197, 77 USPQ 329, stated he was influenced therein to some extent by the closely related features of the companion oppositions, Nos. 24,665 and 24,666, 77 USPQ 331.

Both parties took testimony and submitted in evidence the several contested marks. At the hearings, the parties were represented by respective counsel who cross-examined witnesses.

G. H. Packwood, Jr., testified he had been president of appellant, a St. Louis organization, since its incorporation in 1926; that the principal products sold by appellant were industrial skin cleansers, or crystallized soaps, cleansing cream for removing hectograph ink stains from the hands, soap dispensing equipment, and a liquid cement to be used in the attachment of the soap dispensing equipment to walls or other surfaces.

Appellant's first registered trade-mark adopted for use with its hand and skin cleanser "Pack'a," was issued February 14, 1928; the second registered mark adopted and used by appellant for its soaps, "Pax," was issued on February 19, 1929. On August

12, 1941, appellant again registered "Pax" for use with its dispensers of powdered or granulated soap. Appellant in its advertising and on printed labels also used the notation "Pax-C-Ment" in the sale of the liquid cement hereinbefore described.

In short, appellant since the beginning of 1929 had owned and continuously used "Pax," and subsequently the notation "Pax-C-Ment," on products manufactured and sold by appellant, including plastic cement, or liquid adhesive in small bottles, in the nature of glue, as a general purpose adhesive. Appellant also manufactured and sold crystallized soap for use either separately or in soap dispensers. Appellant also manufactured and sold the soap dispensers, each of which bore on the attached label both the appellant's registered trade-mark "Pax" and the notation "Pax-C-Ment."

The record discloses that long subsequent to the date of appellant's adoption and first use of its mark "Pax," appellee formed a New York corporation, the "Pax Writing Paper Co., Inc.," for the sale of stationery consisting of note paper and envelopes; that in March of 1943, the nature of appellee's business changed, and to conform therewith, appellee changed its corporate name to "Pax Plastics, Inc." and engaged in the manufacture and sale of pressure adhesive tape; that in May of 1943, appellee again changed its corporate name to the one it now bears: "The Cofax Corporation."

Appellee on May 26, 1943, sought to register "Pax" as a trade-mark, alleging that it had been continuously used in appellee's business since May 24, 1943, a period of two days, as a trade-mark "for pressure adhesive tape for sealing package wrappings, paper and stationery and similar purposes" and for "adhesive tape dispensers." Appellee's application to register "Pax" was allowed and passed for publication by the Patent Office, March 20, 1945. Appellant on April 19, 1945, filed the notice of opposition, No. 24,197, relying on the prior use of the mark "Pax," as twice registered, and to some extent, on the prior registration of "Pack's," hereinbefore described.

Appellee's applications for registration, Nos. 484,242 and 484,244, were both filed June 7, 1945, and included the respective words "Paxite" and "Paxomat"; the former for "plastic tape dispensers," the latter for "sealing tape dispensers." In the respective applications, appellee alleged continuous use of the marks since May 16, 1945, a period of approximately three weeks. Appellant filed an opposition to each of the two applications for registration. Those are oppositions Nos. 24,665 and 24,666.

It was not questioned before the tribunals of the Patent Office that appellant's proof of prior use by several years was conclusive as to its marks "Pax," and "Pack's," together with the notation, "Pax-C-Ment."

Appellant during twenty years of use of "Pax" as a trade-mark has spent large sums of money advertising "Pax" products not only in nationally circulated magazines among dealers in the stationery trade but also in the distribution by direct mail on a nationwide basis of hundreds of thousands of circulars, folders, catalogues, and catalogue sheets to customers and potential customers. In 1944 and 1945, alone, appellant spent more than $50,000 for such advertising.

Without recounting the extent of appellee's advertising of "Pax" dry seal tape, or the amount expended therefor, the president of the Cofax Corporation stated that the product had been advertised in various magazines or periodicals circulated among stationers, the paper trade, and the packaging industry. When asked for what purpose the "Pax" dry seal tape was used, he replied:

A. It is used for mending paper; for protecting the edges of paper by binding around it; for adhering signs to windows; it can be used in place of surgical tape for holding bandages; because of its transparency it can be used in mending books, the type being visible through the tape; it can be used, and it is used, for electrical insulation; it is used for identifying lines in the assembly of radio sets and other electrical equipment.

Appellee's product is used generally and particularly in offices, libraries, hospitals, and in manufacturing plants for radio and electrical equipment. The tape can be used separately without a dispenser, but in most cases, a dispenser is used. The dispensers are of different sizes and types; either manually operated or automatic. The dispensers, among other things, bear the trade-marks "Pax," "Paxite," or "Paxomat." The operation of the automatic type of dispenser, like appellant's automatic dispenser, is performed by depressing a lever.

When the Cofax Corporation decided in 1945 to use "Pax" as a trade-mark for the dry seal tapes, the president of the corporation had a search made among the records of the Patent Office. The search disclosed that between 1885 and 1945, "Pax" had been registered as a trade-mark for some seventeen different articles, including wheelbarrows, rugs, drills, saws, feed, fertilizers, medicine, etc.

Such collateral registrations were offered in evidence, not to attack the validity of appellant's mark, but to show diversity in its use. It is thereby conceded that the term "Pax" is not merely descriptive of the goods of either party. Hence appellee is not unrestricted in its right to the use of the mark.

Furthermore, in making the search, it may be presumed appellee found appellant's involved registrations of record and went ahead with full knowledge of such registrations. Since appellee's marks were adopted without any explanation as to why they were adopted, it is fair to infer that the newcomer sought to profit by the confusion that would result. The record contains evidence of actual confusion in trade by reason of the concurrent use of the marks by the respective parties.

The goods of the respective parties are used by the same class of people, mostly, office workers, and sold in the same class of stores, mostly, stationery stores and paper houses, or the stationery department of department and drug stores. Assuming, without holding, that there was a difference in the channels through which the goods of the parties have been marketed, trade practices are subject to change and hence the class of purchasers, whether jobbers, retailers, or direct customers to whom the goods were sold, is not deemed to be a legally controlling factor. *Celanese Corporation of America* v. *E. I. Dupont De Nemours & Company*, 33 CCPA (Patents) 857, 154 F.2d 143, 69 USPQ 69, 587 O. G. 4.

Appellant as the opposer to the registration of a trade-mark is entitled in such proceedings to rely not only upon its previously registered trade-marks but also upon trade-names and designs previously used on labels and in advertising literature in a manner analogous to a trade-mark use. *John Wood Manufacturing Co.* v. *Servel, Inc.*, 22 CCPA (Patents) 1370, 77 F.2d 946, 25 USPQ 488, 461 O. G. 948; *Virginia Dare Extract Co., Inc.*, v. *Adah Mae Dare*, 21 CCPA (Patents) 1086, 70 F.2d 118, 21 USPQ 334, 447 O. G. 500.

The sole issue before the court is whether the involved goods are goods of the same descriptive properties according to the provision therefor in section 5 of the statute.

[1] Goods of the same descriptive properties, in the ordinary sense, are goods or products each of which is like the other; they are all things of the same kind. Goods of the same descriptive properties, in the statutory sense, include however not only the same kind of things but also things entirely different from one another. The distinction is not wholly logical, but purely legal, and the test to be applied, as a matter of law, when the question arises is not the likelihood of confusion as to the difference in the goods but the likelihood of confusion as to the difference in the ownership of two identical marks attached to the goods.

Adhesive cement for use in the repair of household articles legally had the same descriptive properties as lubricating oil in a case where the marks of the competing parties were identical and there was evidence of actual confusion in trade. *Three In One Oil Company* v. *St. Louis Rubber Cement Co., Inc.*, 24 CCPA (Patents) 828, 87 F.2d 479, 32 USPQ 192, 481 O. G. 452. See also *Elgin American Mfg. Co.* v. *Elizabeth Arden, Inc.*, 23 CCPA (Patents) 1168, 83 F.2d 687, 29 USPQ 545, 471 O. G. 483.

Electric flash lights and storage batteries, in a legal sense, had the same descriptive properties as hardware consisting of locks and keys in the case of *Yale Electric Corporation* v. *Robertson*, 26 F.2d 972. There Judge Learned Hand indicated that where the marks in a case are identical, such as those now before this court, the use of the mark by the newcomer is unlawful, unless the newcomer's use is so foreign to that of the prior owner as to insure him not only against confusion in trade but also against injury to his reputation, citing authorities.

[2] The uncontroverted testimony of appellant as to actual confusion in trade as a result of the concurrent use of the identical mark by the respective parties, and the letters of record to the same effect, is not without significance on the question here in issue as to the likelihood of confusion as to the use of the respective marks involved. To say the least, there is substantial doubt on that point. Under the familiar rule such doubt should be resolved against appellee, the newcomer, inasmuch as it had an unlimited field to choose from in selecting completely different marks.

[3] For the reasons hereinbefore stated, the respective decisions of the Commissioner of Patents appealed from are reversed.

REVERSED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,001,271, W. G. Smith, Gate valve, filed Oct. 11, 1950, D. C. Oreg. (Portland), Doc. 5783, *U. S. National Bank of Portland, Oreg. et al.* v. *Fabri-Valve Co. of America.*

2,008,547, J. H. Grayson, Safety gas valve; Re. 22,511, W. F. Jackson, Fuel control device; 2,319,685, Re. 22,987, Jackson & Jeffers, Safety control for gaseous fuel burners, filed Oct. 17, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12429–Y, *Robertshaw-Fulton Controls Co.* v. *Grayson-Greenamyer, Inc.*

2,151,416, Black & Stroebel, Perforation cleaner, filed Oct. 16, 1950, D. C., W. D. Okla. (Oklahoma City), Doc. 4942, *Scratchers, Inc.* v. *Weatherord Oil Tool Co., Inc.* Same, filed Oct. 19, 1950, D. C., S. D. Tex. (Houston), Doc. 5827, *Scratchers, Inc.* v. *S. & R. Tool & Supply Co. et al.*

2,161,658, G. B. Hansburg, Combined stool and table; 2,483,062, Puls & Swenson, Combined table and chair, D. C., N. D. Ill. (Chicago), Doc. 50c690, *Babee-Tenda License Corp. et al.* v. *Home Equipment Mfg. Co., Inc., et al.* Consent decree on stipulation, Home Equipment Mfg. Co., Inc. enjoined; Warner Electric Co., Inc. and M. R. Warner dismissed with prejudice Oct. 18, 1950.

2,264,194 (*a*), J. V. Wuestman, Advertising pencil, or the like, filed June 7, 1950, D. C., S. D. N. Y., Doc. 58/311, *Secretary Pen Co., Inc., et al.* v. *Bengor Products Co.* Consent judgment Oct. 18, 1950.

2,264,194 (*b*), J. V. Wuestman, Advertising pencil or the like; Des. 159,125, same, Advertising pencil, D. C., S. D. N. Y., Doc. 57/252, *Secretary Pen Co., Inc., et al.* v. *Everlast Pen Corp. et al.* Terminated as to infringement of 2,264,194, for all parties Aug. 10, 1950; order dismissing supplemental complaint as to design patent Oct. 16, 1950.

2,319,685. (See 2,008,547.)

2,373,330, A. Nutting, Air cleaner; 2,403,545, same, Dust arrester liquid level control, filed Oct. 16, 1950, D. C., W. D. Mich. (Detroit), Doc. 9862, *American Air Filter Co., Inc.* v. *Newcomb-Detroit Co.*

2,397,393, S. Wetterhahn, Wallet, filed Oct. 16, 1950, D. C., S. D. N. Y., Doc. 61/279, *S. Wetterhahn* v. *E. E. Koch et al.*

2,403,545. (See 2,373,330.) 2,483,062. (See 2,161,658.)

2,504,291, S. W. Alderfer, Telescopic and adjustable building support, filed Oct. 16, 1950, D. C., N. D. Ohio (Cleveland), Doc. 27773, *Wolfe Products, Inc.* v. *Brainard Steel Co.*

2,510,446. (See Des. 151,423.)

2,519,883, 2,519,884, A. O. Bustanoby, Magnetic figure toy; Des. 159,707, J. V. Zimmerman, Toy dog, filed Oct. 13, 1950, D. C., S. D. N. Y., Doc. 61/264, *Ross Products, Inc.* v. *Premier Products Co. et al.*

2,519,884. (See 2,519,883.)

2,524,681, V. D. Roosa, Manicuring device, filed Oct. 13, 1950, D. C., E. D. N. Y. (Brooklyn), Doc. 11139, *Pinky Products, Inc.* v. *A. Sartorius & Co., Inc.* Same, suit for declaratory judgment filed Oct. 17, 1950, D. C., S. D. N. Y., Doc. 61/289, *A. Sartorius & Co., Inc.* v. *Pinky Products, Inc., et al.*

Re. 22,511. (See 2,008,547.)

Re. 22,987. (See 2,008,547.)

Des. 146,989, S. Sanders, Hair cutting comb, D. C., E. D. Mo. (St. Louis), Doc. 6065, *Sta-Neet Corp.* v. *Merchandising Equipment Co. et al.* Patent held invalid, case dismissed Sept. 28, 1950.

Des. 151,423, 2,510,446, L. P. Weil, Portable electric fountain, filed Oct. 16, 1950, D. C., S. D. N. Y., Doc. 61/280, *L. P. Weil* v. *Canal Electric Motor, Inc., et al.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., S. D. Ohio (Cincinnati), Doc. 2293, *Sanson Hosiery Mills, Inc., et al.* v. *S. S. Kresge Co., Inc.* Consent decree holding patent valid and infringed; injunction (notice Oct. 16, 1950).

Des. 156,042, Q. Sandler, Scarf, filed Oct. 17, 1950, D. C., S. D. N. Y., Doc. 61/288, *Sherry Fashions, Inc.* v. *Baar & Beards, Inc., et al.*

Des. 157,566 (*a*), B. Cashin, Jacket; Des. 157,567, same, Coat, D. C., S. D. N. Y., Doc. 59/74, *Adler & Adler, Inc.* v. *Jack Herzog & Bro., Inc., et al.* Stipulation and order of discontinuance Oct. 13, 1950.

Des. 157,566 (*b*), B. Cashin, Coat, D. C., S. D. N. Y., Doc. 60/103, *Adler & Adler, Inc.* v. *Rainshedder Co., Inc.* Stipulation and order of discontinuance Oct. 17, 1950.

Des. 157,567. (See Des. 157,566.)

Des. 159,125. (See 2,264,194 (*b*).)

Des. 159,707. (See 2,519,883.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 34,645, T. M. 45,695, Cluett, Peabody & Co., Collars and cuffs; T. M. 75,369, same, Outer shirts; T. M. 90,793, same, Outer shirts, undershirts, collars, etc.; T. M. 107,962, same, Shirts, collars and cuffs; T. M. 114,337, same, Night shirts, pajamas, etc.; T. M. 340,809, same, Handkerchiefs, underwear for men, and neckties; T. M. 368,681, same, Trousers and shorts; T. M. 420,755, same, Sweaters, filed Oct. 17, 1950, D. C., E. D. Pa. (Philadelphia), Doc. 11482, *Cluett, Peabody & Co., Inc.* v. *Arrow Mfg. Co. et al*

T. M. 45,695. (See T. M. 34,645.)

T. M. 75,369. (See T. M. 34,645.)

T. M. 90,793. (See T. M. 34,645.)

T. M. 107,962. (See T. M. 34,645.)

T. M. 114,337. (See T. M. 34,645.)

T. M. 340,809. (See T. M. 34,645.)

T. M. 368,681. (See T. M. 34,645.)

T. M. 420,755. (See T. M. 34,645.)

NOTICES

Licensing of Foreign Filing on Filing Receipt to be Discontinued

Under 35 Stat. 657 (35 U. S. C. 42a) a license from the Commissioner of Patents is required before an application for patent may be filed in any foreign country in respect of any invention made in the United States. By the practice announced in Commissioner's Notice dated January 31, 1946 (583 O. G. 387), such license has been provided by the Commissioner on his own motion in the form of a printed endorsement on the reverse side of the filing receipt issued for each new application. This license was effective 60 days from the filing date unless countermanded within that period by a secrecy order

Effective December 12, 1950, issuance of foreign filing licenses on filing receipts will be discontinued. On and after that date licenses will be obtainable only upon petition to the Commissioner of Patents.

The petition for license may be in letter form addressed to the Commissioner of Patents and directed to the attention of Division 70. A single petition may contain a request for one or more licenses to file applications in foreign countries which include only the subject matter of one or more applications on file in the United States Patent Office. When several United States applications are combined in one petition, the data identifying each of them must be on separate lines double spaced from the data of each other application and wide margins allowed to permit entry of necessary licensing data. Full regulations governing licenses to file applications in foreign countries are published in the Code of Federal Regulations, Title 37, Part 3. Unless foreign filing of the application is considered likely to be detrimental to the public safety or defense, a license will be issued as soon as routine processing can be completed.

Correction

All references to Patent No. 2,532,163 to Elwood R. Halpin for Pump Combinations appearing in the OFFICIAL GAZETTE of November 28, 1950, should be deleted as the application was withdrawn from issue and the patent was not issued.

Disclaimer

2,472,603.—*Joseph W. Milnor*, Maplewood, N. J. MEANS AND METHOD FOR SWITCHING OF TELEGRAPH MESSAGES. Patent dated June 7, 1949. Disclaimer filed Nov. 13, 1950, by the assignee, *The Western Union Telegraph Company*.

Hereby enters this disclaimer to claim 1 of said patent.

Interference Notice

Roth Creations, Incorporated, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Walter Hertz, 90 Rue Dupont, Brussels, Belgium, for registration of a trade-mark and Registration No. 301,749, issued March 14, 1933, to Roth Creations, Incorporated, 30 East 33rd Street, New York, N. Y., and the notice of such declaration sent by registered mail to the said Roth Creations, Incorporated at the said address having been returned by the post office undeliverable, notice is hereby given that unless Roth Creations, Incorporated, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

Nov. 8, 1950.

Extension of Patents

VETERANS

PUBLIC LAW 598—*81st Congress*

An application for extension of the following patent has been examined and found to conform to the requirements of section 2 of Public Law 598—81st Congress (630 O. G. 1066):

Sebet Silverman 2,065,406 December 22, 1936

Any person who believes that he would be injured by the extension of the above-cited patent may, within 45 days from the date of this publication, oppose the granting of such extension "on the ground that any of the statements in the application for extension is not true in fact" (section 3 of the act).

A notice of opposition must be verified and must be filed in duplicate so that a copy may be sent to the patentee.

JOHN A. MARZALL,
Commissioner.

An application for extension of the following patent has been examined and found to conform to the requirements of section 2 of Public Law 598—81st Congress (630 O. G. 1066):

John J. Shively 2,071,903 February 23, 1937

Any person who believes that he would be injured by the extension of the above-cited patent may, within 45 days from the date of this publication, oppose the granting of such extension "on the ground that any of the statements in the application for extension is not true in fact" (section 3 of the act).

A notice of opposition must be verified and must be filed in duplicate so that a copy may be sent to the patentee.

JOHN A. MARZALL,
Commissioner.

An application for extension of the following patent has been examined and found to conform to the requirements of section 2 of Public Law 598—81st Congress (630 O. G. 1066):

Cox 2,200,469

Any person who believes that he would be injured by the extension of the above-cited patent may, within 45 days from the date of this publication, oppose the granting of such extension "on the ground that any of the statements in the application for extension is not true in fact" (section 3 of the act).

A notice of opposition must be verified and must be filed in duplicate so that a copy may be sent to the patentee.

JOHN A. MARZALL,
Commissioner.

Cancellation Notice

Howard D. Parsons, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Muzak Corporation, 229 Fourth Avenue, New York 3, New York, to effect the cancellation of trade-mark registration of Howard D. Parsons, 3337 Wyandotte Street, Kansas City, Missouri, No. 519,369, dated December 27, 1949, and the notice of such proceeding sent by registered mail to the said Howard D. Parsons at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Howard D. Parsons, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

Nov. 9, 1950.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,509,978. UNDERWING REFUELING SYSTEM. Patented May 30, 1950. Pressure re-fueling system for aircraft is self-protecting against the risks of over-filling. Automatic valve has at least two outlets. A valve casing including a valve seat to close outlet in each valve is operated independently under pressure of fuel when it exceeds a predetermined amount for each tank. After reaching the predetermined amount in one tank, the valve closes and another valve opens to another tank. (Owner) A. V. Roe Canada Limited, Box 430, Terminal "A," Toronto, Canada. Groups 35—61; 37—22. Reg. No. 38,986.

Pat. 2,508,326. REFRIGERATOR UNIT. Patented May 16, 1950. Refrigerator unit may be easily installed or removed as a unit from a refrigerator cabinet without disturbing the cabinet construction, or breaking any refrigerator line connections. One embodiment of the unit is adapted to be removably inserted into the lower end of a coin-controlled bottle-dispensing cabinet. The unit of this embodiment includes a frame consisting of upper and lower platforms and a vertical end member interconnecting the platforms at one end. The evaporator is mounted on the upper platform, and the condenser-compressor unit is mounted on the lower platform. When the unit is inserted into a bottle-dispensing cabinet, the vertical end member of the frame of the unit will form a continuation of the back wall of the cabinet. Modification shown. (Owner) The Bastian-Blessing Company, 4201 West Peterson Ave., Chicago 30, Ill. Group 35—84. Reg. No. 38,987.

Pat. 2,518,095. COIN CONTROLLED VENDING MACHINE. Patented Aug. 8, 1950. Coin-controlled vending machine for dispensing bottled goods, etc., may be manually operated by actuating a handle. It includes coin-controlled mechanism that may be readily changed in the field to function with various combinations of coins including pennies, nickels, and dimes to quickly effect price changes over a wide range. Whenever a sufficient number of coins are inserted into the machine to meet an established purchase price, handle of machine may be actuated to cause mechanism to dispense an article. If slugs or an insufficient number of coins are inserted, actuation of the handle will only serve to cause scavenging devices to automatically return the slugs and coins to a coin-return receptacle, and thus clear machine. (Owner) The Bastian-Blessing Company, 4201 West Peterson Ave., Chicago 30, Ill. Group 35—73—84. Reg. No. 38,988.

Pat. 2,503,101. MAP HOLDER. Patented Apr. 4, 1950. Holder is especially adapted for automobile roadmaps. Maps are wound around each of two spindles connected by a belt to another set of aligned juxtaposed spindles. Spiral springs are mounted on the aligned spindles so that, when the first spindles are rotated by unwinding of the maps, the belts cause the aligned spindles to be rotated to wind the springs. The idle spindles are held from rotation while maps are in use by a latch arrangement. The spindles, etc., are housed within a casing, which completes the structure. (Owner) Victor P. Drury, 34 Finch Ave., East, Northmount, Ontario, Canada. Groups 39—81—99; 40. Reg. No. 38,989.

Pat. 2,518,131. CIGARETTE HOLDER AND ASH RETAINER. Patented Aug. 8, 1950. Fire hazards and the spilling of ashes are lessened by enclosing a burning cigarette until it is completely smoked. Combination cigarette holder and ash retainer consists of a body portion having a longitudinally bored mouth piece and narrow extension. A slidable cigarette-holding sleeve and ejector are attached to the extension. Cigarette is retained in the holder by a wire ring assembly that threads onto the sleeve. Ashes are retained within the holder by a unit comprising an inner and outer perforated sleeve held together by a cap. The entire device is easily assembled and disassembled. (Owner) Lee Fook, Bridge Hotel, 159 North 10th St., Philadelphia 7, Pa. Groups 30—32; 33—73; 39—81; 40. Reg. No. 38,990.

Pat. 2,521,523. DRIPLESS POURING DEVICE. Patented Sept. 5, 1950. Non-dripping pouring spout for bottles, pitchers, and other containers does not interfere with conventional closures. A concave curved inner portion extends downwardly below pouring surface to vertical wall of container. This forms a small pool for liquid as container is tipped back after pouring. This liquid will join liquid in container and none will drip. May be manufactured as an integral part of containers or as an attachment for conventional containers. (Owner) Robert J. Kemper, 1237 Oak St., San Carlos, Calif. Groups 26—64; 32—29—62—69; 39—81; 40. Reg. No. 38,991.

Pat. 2,162,166. CLOCK WITH ATTACHMENT. Patented June 13, 1939. The face of this clock includes a number of eyelets or tubular conducting sockets arranged around its rim into which jacks or plugs may be inserted. A switch arrangement connected to each hand is adapted to wipe over conducting strips under the sockets and close a circuit at the point at which the plug is inserted, producing a buzz. The clock may be used by hotel clerks and others to warn them when services or acts are to be performed. (Owner) Mrs. Clara D. Gorrien, Davenport Hotel, Spokane, Wash. Groups 34—61; 36—62. Reg. No. 38,992.

Pat. 2,522,173. LEG AND FOOT REST. Patented Sept. 12, 1950. Apparatus may be attached to a hospital bed or chair as a temporary fixture and removed for use elsewhere or storing. It comprises a pair of separate trough-like leg supports pivotally supported on a frame and standard and clamped to the side rails of a bed. The leg rests may be independently lowered or raised to different angular positions by manipulating a lever arrangement within reach of a patient or attendant. The supports may also be used as arm or hand rests by sliding the assembly along the bed rail to the shoulder sector. Modification is shown. (Owner) Lionel Herbert. Correspondence to J. Preston Swecker, 641 Washington Bldg., 1435 G St., N. W., Washington 5, D. C. Groups 25—32; 39—16. Reg. No. 38,993.

Pat. 2,513,913. COMBINED INDICATOR AND DIRECTION CONTROLLER FOR SYNCHRONOUS MOTOR-DRIVEN CLOCKS. Patented July 4, 1950. Combined signal and locking device for self-starting synchronous clock motors of the type which start in either direction of rotation if not prevented. Signaling function indicates that the clock has stopped because of a power failure and requires manual re-setting. During normal operation the combined signal and lock is retained by magnetic attraction, but when the motor is de-energized it is moved to a locking position by gravity. (Owner) Telechron Inc., Ashland, Mass. Groups 34—61; 36—62. Reg. No. 38,994.

General Electric Company has made the following 22 patents available for non-exclusive licensing. Applications for license may be addressed to: Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The following eleven patents refer to light fixtures which utilize elongated tubular fluorescent lamps and which are constructed to facilitate lamp renewal and cleaning of the fixture. Group 34—81.

Des. 128,380. DESIGN FOR A LIGHTING FIXTURE. Patented July 22, 1941. Reg. No. 38,995.

Des. 136,453. DESIGN FOR A LIGHTING FIXTURE. Patented Oct. 5, 1943. Reg. No. 38,996.

Des. 136,641. DESIGN FOR A LIGHTING FIXTURE. Patented Nov. 9, 1943. Reg. No. 38,997.

Pat. 2,280,534. LIGHTING FIXTURE. Patented Apr. 21, 1942. Reg. No. 38,998.

These four patents feature a trough-shaped light reflector provided with a light-diffusing louver which shields the lamps so that they cannot be seen at ordinary angles of observation. The louvers are formed of narrow intersecting and interlocking strips.

Pat. 2,306,597. LIGHTING SYSTEM. Patented Dec. 29, 1942. Fixture is installed so that it is flush with the ceiling of a room. Especially adapted for ceilings formed of soundproof blocks, the fixture being of the same width and length as several blocks, and also installed with the same clips used for holding the blocks in place. Reg. No. 38,999.

Pat. 2,321,701. LIGHTING FIXTURE. Patented June 15, 1943. For use in controlled lighting of display areas, counter-tops, etc. It comprises a pair of downwardly facing elongated light-reflecting surfaces arranged back-to-back with their outermost ends in side-by-side relation and provided with softly luminous side strips. Reg. No. 39,000.

Pat. 2,337,437. LIGHTING FIXTURE. Patented Dec. 21, 1943. Fixture distributes light evenly by providing a downwardly directed wide-spread light area having a higher degree of candle power at the outer edges which may be spaced apart at least one and one-half the height of the surface to be illuminated. Reg. No. 39,001.

Pat. 2,399,531. FIXTURE FOR TUBULAR LAMPS. Patented Apr. 30, 1946. Provides an easily assembled light fixture in which the sockets that receive the lamps are mounted in slotted plates secured to the ends of a metal bar. When it is desired to change the position of the lamps, the sockets are pushed along the slots. Reg. No. 39,002.

Pat. 2,437,569. LAMP FIXTURE. Patented Mar. 9, 1948. Fixture accommodates a circular fluorescent lamp. Ballast and starting switch customarily employed with a fluorescent system are hidden within the confines of a reflector. Adapted for the usual 110 volt A. C. current. Reg. No. 39,003.

Pat. 2,439,885. LUMINAIRE. Patented Apr. 20, 1948. Light fixture may be mounted at a substantial height and yet be lowered so that it may be serviced from the floor. Fixture is attached to its support by cables wound on spring-balanced rotatable drums. Housing encloses wiring and ballast equipment. The fixture is lowered by actuation of a latch arrangement. Reg. No. 39,004.

Pat. 2,441,399. INCANDESCENT AND FLUORESCENT LAMP HOLDER. Patented May 11, 1948. Floor lamp or table lamp for both general lighting or reading. Indirect light is thrown to the ceiling by an incandescent lamp within reflecting globes. Direct light is provided by a circular fluorescent lamp. Holder for the fluorescent lamp may be incorporated in existing incandescent lamp fixtures without substantial modification. Reg. No. 39,005.

The following eleven patents represent miscellaneous electrical equipment.

Pat. 2,363,895. PROTECTIVE SYSTEM. Patented Nov. 28, 1944. Switches are particularly adapted to apparatus in which bus bars, etc., are arranged in one or more sections so that, in the event of trouble in one section, that section is completely isolated from the rest of the system. Group 36—19. Reg. No. 39,006.

Pat. 2,516,563. MAGNETIC AMPLIFIER FOR INDUCTIVE LOADS. Patented July 25, 1950. A regenerative magnetic amplifier for providing direct voltages across a load which correspond to charges in a D. C. input signal. An input signal coil is wound around a pair of magnetic rings. Current flowing through the coil produces an additional magnetic flux which either increases or decreases the degree of saturation of the rings depending upon the direction of flow through the coil. Group 36—19. Reg. No. 39,007.

Pat. 2,516,565. PHONOGRAPH REPRODUCING ARM. Patented July 25, 1950. Tone arm in which the needle of the reproducing head is shifted in a direction normal to the sound grooves of a record to obviate distortion and unpleasant noise of the reproduced sound. Wear on the record is also reduced. Group 36—61. Reg. No. 39,008.

Pat. 2,516,597. ELECTRIC VALVE COMMUTATION CIRCUITS. Patented July 25, 1950. Circuit employs auxiliary reactors connected with the electric valve apparatus supply transformer primary windings. This results in voltages at the valves which, because of their wave shape, assure good commutation. Group 36—19. Reg. No. 39,009.

Pat. 2,516,606. REMOTELY CONTROLLED SELECTOR SWITCH MECHANISM. Patented July 25, 1950. Actuation of a remote control switch causes mechanism to automatically operate through a complete control sequence. Operates to disconnect the common power supply circuit from any previously connected branch circuit and re-connect it to another selected branch circuit. Group 36—19. Reg. No. 39,010.

Pat. 2,516,608. BRUSH MECHANISM FOR DYNAMO-ELECTRIC MACHINES. Patented July 25, 1950. Bracket clamps shoulder formed on a brush-holding tube which is inserted in the opening of a mounting protuberance formed on the inner surface of the shield of a dynamo-electric machine. The tube is thus prevented from being forced into the machine or from twisting. Group 36—11—19. Reg. No. 39,011.

Pat. 2,517,088. GEAR AND CLUTCH MECHANISM FOR SPINNER TYPE CLOTHES-WASHING MACHINES. Patented Aug. 1, 1950. Mechanism for use in small portable clothes-washing machines in which washing is performed in a basket by an agitator, the basket afterwards being rotated to centrifugally extract the water from the clothes. Group 35—81. Reg. No. 39,012.

Pat. 2,517,131. ELECTRIC CIRCUIT. Patented Aug. 1, 1950. Circuit for obtaining an adjustable narrow and steep wave front peak of voltage in firing electron discharge devices such as a thyratron. Group 36—61. Reg. No. 39,013.

Pat. 2,517,136. CONTACT STRUCTURE FOR ELECTRIC CIRCUIT BREAKERS. Patented Aug. 1, 1950. Prevents the pitting tendency caused by an arc remaining at a particular spot on the surface of circuit breaker contacts. Arcing chamber is provided with a pair of separable contacts, one of which is vaned so that it is rotated by the blast of fluid used to extinguish the arc drawn between the contacts upon their separation. Group 36—11. Reg. No. 39,014.

Pat. 2,518,115. AMPLIFICATION SYSTEM FOR NON-CONTACTING THICKNESS GAUGES. Patented Aug. 8, 1950. An amplifier for a radiation beam modulated type of non-con-

tacting thickness gauge in which deflections of a meter represent the deviation in the thickness of various specimens being measured by the interception of the beam. Group 36—13. Reg. No. 39,015.

Pat. 2,518,138. SWITCH FOR SPEED REGULATORS. Patented Aug. 8, 1950. Centrifugal speed regulator in which vibratory action is stabilized by a permanent magnet mounted on one of a pair of contacts that cooperates with an iron armature on the other contact. The magnet and associated armature are so proportioned that regulator contacts close, irrespective of speed, at least once every revolution. Group 35—66. Reg. No. 39,016.

Pat. 2,467,839. HAT. Patented Apr. 19, 1949. Turban type hat formed from one piece of material is hand-tied by the individual wearer and may be worn in a variety of styles. A bell-shaped piece of material has two inner cuts providing a central body portion. The ends form a rear portion and a wide front portion. Two narrow strips formed by the cuts are a continuation of the front portion and form tie strings. Rear of body portion may cover back of head or may be pulled upwardly toward front, exposing rear of head, and the hair is held in position by the tie strips. (Owner) Howard N. Maher, 1819 East Republican, Seattle 2, Wash. Groups 22—44—71—72—73; 23—51. Reg. No. 39,017.

Pat. 2,514,743. BATH TUB BRUSH. Patented July 11, 1950. An elongated brush support of stainless metal or plastic is bowed to be slightly sprung away from wall of tub as an aid to a bather for scrubbing his back. Upper end is curved to slip over rim of tub. Spaced slots are provided in lower end to detachably and adjustably receive an eye and flat key at back of a brush or sponge. In a modified form for built-in tubs the support is made of two extensible sections, the upper end curved for attachment to a towel rack or other wall support. Occupant of tub moves his back up and down across brush. (Owner) Beatrice Carson, 1040 Sutter St., San Francisco 9, Calif. Groups 33—61—73; 39—22—81. Reg. No. 39,018.

Pat. 2,522,793. NO-SWAY TRAILER HITCH. Patented Sept. 19, 1950. Trailer hitch has a three-point arrangement with ball and socket connections at each point to prevent swaying. The hitch is pivoted to brackets attached to bumper of towing car and to each brake drum or other suitable point on front end of trailer. A second hitch may be attached to trailers with more than two front wheels and connected to first hitch by auxiliary bars. May be folded when not in use. (Owner) Fred Koeckritz, P. O. Box 2021, Corpus Christi, Tex. Groups 35—69; 38—31—41. Reg. No. 39,019.

Pat. 2,506,950. AUTOMATIC STEAM ELECTRIC SADIRON. Patented May 9, 1950. Electric iron has steam-distributing grooves on underside of base and a water reservoir at rear of base. A U-shaped steam chamber around base of iron has a steam manifold connected to it. One tube of manifold is valved to supply metered water to steam chamber according to fabric to be ironed. Steam equalizer tube connects with reservoir for equalizing steam pressure. (Owner) Louis S. Butman, Merkel, Tex. Groups 35—81—82; 36—21. Reg. No. 39,020.

Pat. 2,521,205. LIFE PRESERVER ATTACHMENT FOR TWO-PIECE SWIM SUITS. Patented Sept. 5, 1950. Removably attached life preserver for children or untrained swimmers consists of two inflatable tubes connected by a tubular collar portion to be worn around the neck. Device is attached by mating slide fasteners secured to inner edges of the tubes and to front of swim suit or underwear. Inflating valve is provided in one tube section. When deflated, the preserver will fold compactly to be carried in bag or pocket. (Owner) Malham H. David, 160 West Chicago Ave., Chicago, Ill. Group 30—51. Reg. No. 39,021.

Pat. 2,510,518. HAND FEEDER FOR SOLDERING IRONS. Patented June 6, 1950. Hand feeding attachment for electric soldering irons. An adjustable guide tube is secured to a telescopically arranged sleeve welded to a clamp adapted to fit upon soldering iron handle. An elongated slot in sleeve houses a spring connected by a ring to an electric cable extending into handle. The spring frictionally receives end of solder rod, which may be manually moved back and forth through the slot to feed or remove solder from the hot point. (Owner) Victor M. Posada, Calle Arce No. 97-A, San Salvador, El Salvador. Groups 35—42; 36—21. Reg. No. 39,022.

Pat. 2,524,224. FISH HOOKING MEANS. Patented Oct. 3, 1950. Pencil-sized tubular device features a latching and tripping assembly associated with a spring-urged leader line retracting structure. Hook is firmly set in the mouth of a fish by the slight pull of the fish taking the bait. Adjustment may be made in tensioning the latching and tripping assembly to permit a variation in the amount of pull needed. The device is easily attached between the leader line and fish line of conventional fishing equipment. (Owner) John Gunser, 1642 North Wells St., Chicago, Ill. Group 39—49. Reg. No. 39,023.

Pat. 2,524,349. TELEVISION SYSTEM. Patented Oct. 3, 1950. This patent relates to a step-by-step movement of an endless fluorescent film or screen initiated by control impulse signals developed at the end of each picture field or frame. This same signal also returns the cathode ray in the camera tube to the starting point for the next picture field so that regardless of the vertical scanning frequency the film movement is always in synchronism with the changing picture fields in the television camera tube. (Owner) John H. Homrighous, 1029 Wenonah Ave., Oak Park, Ill. Group 36—62. Reg. No. 39,024.

Patents Removed from Register

Re. 22,858. METHOD OF MANUFACTURING ICE CREAM AND THE PRODUCT THEREOF. Listed by Swift and Company. Reg. No. 8,522.

The following five patents listed by Federal Enterprises, Inc.:

Pat. 2,264,189. RESINOUS FELTED FIBROUS COMPOSITION. Reg. No. 33,279.

Pat. 2,340,956. TUBULAR PRODUCT. Reg. No. 33,283.

Pat. 2,376,687. PROCESS OF MAKING A FIBROUS THERMOPLASTIC PRODUCT. Reg. No. 33,281.

Pat. 2,376,688. THERMOPLASTIC FIBROUS PRODUCT. Reg. No. 33,282.

Pat. 2,387,683. PRODUCTION OF RESINOUS FELTED FIBROUS COMPOSITION. Reg. No. 33,280.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 12, 1950

[VOL. 641. No. 2]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 485,722. CHERRY-BURRELL CORPORATION, Chicago, Ill. Filed July 12, 1945.

C B

FOR POD TYPE VAT OUTLETS—NAMELY, AN ELEMENT ADAPTED TO BE FITTED OVER AN OPENING FORMED IN THE BOTTOM AND ADJACENT SIDE WALL OF A VAT, AND HAVING AT ONE END THEREOF A CONDUIT PROVIDED WITH MEANS FOR ESTABLISHING COMMUNICATION BETWEEN THE CONDUIT AND ADDITIONAL PIPING OR OTHER MECHANISM; AND CAN FILLERS—NAMELY, DEVICES CONSISTING OF A LENGTH OF DISCHARGE TUBING, A LENGTH OF SUPPLY TUBING JOINED TO THE DISCHARGE TUBING BY A VALVE, AND A PIVOTAL CONNECTION ELEMENT FOR JOINING THE SUPPLY TUBING TO A SOURCE OF SUPPLY; AND THERMOMETER HOLDERS—NAMELY, CYLINDRICAL ELEMENTS OPEN AT ONE SIDE TO EXPOSE A PORTION OF THE THERMOMETER HOUSED IN THE CYLINDER WITH THE BULB END OF THE THERMOMETER EXTENDING TO AT LEAST ONE END OF THE HOLDER AND WITH SUITABLE MEANS AT THE SAME END OF THE HOLDER FOR JOINING THE HOLDER INTO A PIPE FITTING OR OTHER PASSAGE FOR MATERIALS OR DIRECTLY INTO THE WALL OF OTHER DEVICES.

Claims use since June 1930.

CLASS 39

CLOTHING

Ser. No. 496,117. WELCH, MARGETSON & CO. LTD., London, England. Filed Feb. 6, 1946.

FOR MEN'S, WOMEN'S, BOYS', AND GIRLS' WEARING APPAREL—NAMELY, HANDKERCHIEFS, MAUDS (SHAWLS), COLLARS, NECKTIES, MUFFLERS, DRESSING GOWNS, PYJAMAS, AND HOSIERY; AND MEN'S AND BOYS' WEARING APPAREL—NAMELY, SUSPENDERS, GARTERS, OUTER SHIRTS, AND SCARVES.

Claims use since 1864.

Ser. No. 525,829. THE HALLMARK SHIRT CO., INC., New York, N. Y. Filed July 3, 1947.

DERBY DAY

FOR MEN'S AND BOYS' OUTER SHIRTS AND PAJAMAS.

Claims use since Sept. 15, 1922.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 514,765. MARITIME MILLING CO. INC., Buffalo, N. Y. Filed Dec. 24, 1946.

B-B

FOR FEEDS FOR LIVESTOCK—NAMELY, PIGS, HOGS, HORSES AND GOATS; AND CATTLE—NAMELY, COWS, CALVES AND BULLS, ALL COMPOSED PRINCIPALLY OF CORN GLUTEN MEAL; CORN GLUTEN FEED; SOYBEAN OIL MEAL; CORN MEAL; WHEAT BRAN, WHEAT STANDARD MIDDLINGS; CORN DISTILLERS DRIED GRAINS; CRUSHED AND GROUND OATS AND MOLASSES.

Claims use since 1925.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 567,357. SUPERIOR METAL PRODUCTS COMPANY, Philadelphia, Pa., and St. Paul, Minn. Filed Sept. 20, 1947. (Sec. 2f.)

SUPERIOR

Applicant claims ownership of Registration No. 295,692.

FOR MILK CANS, DAIRY PAILS, AND ICE CREAM CANS.

Claims use since July 1, 1923.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 550,800. FIRMENICH & CO. SUCCESSEURS DE LA SOCIETE ANONYME M. NAEF & CIE., Geneva, Switzerland. Filed Feb. 28, 1948.

TETRAROME

Applicant claims ownership of Swiss Registration No. 98,233, dated July 11, 1940.

FOR CHEMICAL PRODUCTS FOR THE PREPARATION OF PERFUMES, PERFUMERY PRODUCTS, SOAPS, AND COSMETICS.

Ser. No. 575,847. CHEMCO PHOTOPRODUCTS COMPANY, INC., Glen Cove, N. Y. Filed Mar. 22, 1949. (Sec. 2f.)

POWER-FIX

The word "Fix" is disclaimed.

FOR PHOTOGRAPHIC CHEMICALS—NAMELY, CONCENTRATED ACID AMMONIUM THIOSULFATE FIXING BATHS.

Claims use since Jan. 21, 1949.

Ser. No. 579,532. THE DAVISON CHEMICAL CORPORATION, Baltimore, Md. Filed May 26, 1949.

SYLOID

FOR SILICA GEL FLATTING AGENT.

Claims use since May 25, 1949.

Ser. No. 583,778. E. C. STONE COMPANY, Denver, Colo. Filed Aug. 20, 1949.

ESTEROIL

FOR 2:4–D WEED KILLER.

Claims use since May 11, 1949.

Ser. No. 585,875. HOMER LEON TWINING, doing business as Acme Sawdust Company, San Antonio, Tex. Filed Oct. 6, 1949.

KINGSEAL
KING SEAL
KING OF THIEVING FORMATIONS

The words "Seal" and "King of Thieving Formations" are disclaimed.

FOR CHEMICAL PREPARATION USED AS AN ADDITIVE TO DRILLING FLUID FOR THE PURPOSE OF PREVENTING AND REGAINING LOST CIRCULATION IN THE DRILLING OF OIL AND GAS WELLS AND AS AN ADDITIVE TO CEMENT WHEN CEMENTING OIL AND GAS WELLS IN THIEVING FORMATIONS.

Claims use since July 25, 1949.

Ser. No. 590,711. O. M. SCOTT & SONS COMPANY, Marysville, Ohio. Filed Jan. 11, 1950.

"SCUTTLE"
SCUTL

FOR CHEMICAL WEED KILLER.

Claims use since Dec. 30, 1949.

Ser. No. 591,487. KING RESEARCH, INC., Brooklyn, N. Y. Filed Jan. 26, 1950.

KING'S
BARBICIDE

The name "King's" is disclaimed.

FOR CHEMICAL PREPARATION USED AS A DISINFECTANT AND HOUSEHOLD GERMICIDE.

Claims use since Jan. 6, 1947.

Ser. No. 593,104. CLINTON FOODS INC., Clinton, Iowa. Filed Feb. 27, 1950.

20-L

FOR LAUNDRY STARCH.

Claims use since September 1932.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 573,900. EDWARD SAN GIOVANNI, New York, N. Y. Filed Feb. 15, 1949.

WEDDING RING

FOR ASHTRAYS.

Claims use since Jan. 20, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 505,251. J. A. SEXAUER MFG. CO., INC., New York, N. Y. Original filed, act of 1920, July 8, 1946; amended to application under act of 1946, Principal Register, Mar. 1, 1950. (Sec. 2f.)

SEXAUER

FOR PLUMBING FITTINGS OR PARTS AND ASSOCIATED SUPPLIES USED BY PLUMBERS FOR THE MAINTENANCE OF PLUMBING AND HEATING SYSTEMS—NAMELY, RADIATOR AIR VALVES, ADJUSTABLE GUIDE ARMS FOR TOILET FLUSH TANKS, BALL COCK SCREWS, METALLIC BALL COCK SEAT CAPS, BALL COCK PIPE COLLARS, BALL COCK THUMB SCREWS, BEADED CHAIN, BIBB NUTS, BIBB SCREWS, BOILER REPAIR PLUGS, BOLTS, METAL HEADS FOR BOLTS AND SCREWS, RESILIENT OBLONG BUMPERS, BUSHINGS FOR OVERFLOW TUBES, CAP NUTS, CAP THREAD FRICTION RINGS, CHAIN COUPLINGS, CHAIN STAYS, COCK AND FAUCET END SLEEVES, CAPS FOR CLOSET BOLTS, CLOSET BOLTS, CLOSET SCREWS, CLOSET SPUD FRICTION RINGS, CLOSET SPUDS, COTTER PINS, COUPLINGS FOR BEADED CHAIN, PIPE COUPLINGS AND UNIONS, "EIGHT"-HOOKS, PIPE ELBOWS, EXTENSION TUBES FOR LENGTHENING WASTE OR VENT OR FLUSH PIPES, EYELET COUPLINGS, METALLIC FAUCET OR COCK HOLE COVERS, FAUCET RETAINER CAPS, METALLIC FLANGES, FLAT HEAD SCREWS, FLOAT RODS, FLOOR PLATES AND CEILING PLATES FOR USE WITH PIPES AND RISERS, FLUSH VALVES AND PARTS, METALLIC FRICTION RINGS, FULLER CAPS, FULLER ECCENTRICS, FULLER STEMS, FULLER NUTS, SLIP JOINT NUTS, FURNACE REPAIR PARTS (NAMELY, T's, PET COCKS, FILLING SCREWS, METALLIC TOP PLATES, COIL CUPS, SHIELDS, AND PIPE COILS), FURNACE BULBS, GAS COCK HANDLES, CHINA FAUCET HANDLES, METAL FAUCET HANDLES. METALLIC HEADS FOR THREADED RODS, CHINA INDEX BUTTONS FOR FAUCETS, KEY RINGS FOR STOPPERS, FAUCET SWINGSPOUTS, LAG SCREWS, LEVER WIRES, LINK COUPLINGS, METAL RENEWAL VALVE SEATS, METALLIC OVAL WASHERS, NUTS, OVAL HEAD WOOD SCREWS, OVERFLOW TUBE BUSHINGS, OVERFLOW TUBES, CONNECTING PIPES, PINS FOR BUMPERS, PLUG STRAINERS, RADIATOR VALVE HANDLES, BALL COCK REFILL PLUGS, BALL COCK REFILL TUBES, SCREWS FOR SHEET METAL, METALLIC WOOD SCREWS, RESILIENT TACK BUMPERS, RESILIENT SCREW BUMPERS, SHOWER CURTAIN HOOKS, SINK BOLTS, SINK BOLT NUTS, RUBBER SUCTION STOPPERS FOR SINKS, SLEEVES FOR GAS COCKS, RESILIENT SEAT BUMPERS, SPEEDY CONNECTIONS FOR CONNECTING WATER SUPPLY LINES AND FAUCET TAIL PIECES, STEM NUTS, RUBBER STOPPERS FOR SINKS AND TUBS, STRAINERS FOR SINKS AND BASIN, SUPPLY PIPE COLLARS, BASIN WASTE TAIL PIECES, TANK BULB STEMS, TANK BULBS AND TANK FLOATS, TANK LEVERS, THREADED RODS, TOP BIBB FRICTION RINGS, HOPPER VALVE SCREWS, WASH TRAY BOLTS, METAL WASHERS, VALVE BASES, AND ASSORTMENTS AND SETS OF THE FOREGOING PLUMBING FITTINGS.

Claims use since 1921.

Ser. No. 518,919. THE STANDARD RIVET COMPANY, South Boston, Mass. Original filed, act of 1905, Mar. 12, 1947; amended to application under act of 1946, Principal Register, Oct. 15, 1948. (Sec. 2f.)

STANDARD

FOR STAPLES, RIVETS, AND SPOTS.

Claims use since 1890.

Ser. No. 534,574. R. M. WADE & CO., Portland, Oreg. Filed Sept. 15, 1947. (Sec. 2f.)

WADE RAIN

FOR EQUIPMENT FOR IRRIGATION SYSTEMS—NAMELY, SPRINKLERS, METAL PIPE, METAL PIPE COUPLERS, CHECK VALVES, AND LIFT VALVES.

Claims use since Apr. 23, 1937.

Ser. No. 536,874. CALUMET AND HECLA CONSOLIDATED COPPER COMPANY, Calumet, Mich. Filed Oct. 6, 1947.

WOLVERINE TUBE

The word "Tube" is disclaimed. Applicant claims ownership of Registration No. 401,966.

FOR TUBE, CAPILLARY TUBE, COMMERCIAL TUBE, OIL BURNER TUBE, WATER TUBE, REFRIGERATION AND AIR CONDITIONING TUBE, PIPE, SPUN END TUBE, MADE OF COPPER AND ALUMINUM.

Claims use since Apr. 24, 1944.

Ser. No. 539,531. LOCK THREAD CORPORATION, Detroit, Mich. Filed Oct. 30, 1947. CERTIFICATION MARK.

Universal
LOK-THRED

Representation of the goods and the expression "Lok Thred" are disclaimed.

FOR SCREW CONNECTIONS AND PARTS THEREOF—NAMELY, SCREWS, BOLTS, STUDS, NUTS, AND THREADED INSERTS.

Claims use since Oct. 16, 1947.

Ser. No. 539,861. ELKHART BRASS MANUFACTURING COMPANY, INC., Elkhart, Ind. Filed Nov. 1, 1947.

Applicant claims ownership of Registration No. 122,869.
FOR FIRE HOSE RACKS.
Claims use since Jan. 10, 1946.

Ser. No. 541,535. THE GILBERT & BENNETT MFG. CO., Georgetown, Conn. Filed Nov. 18, 1947.

FOR WIRE CLOTH, WIRE NETTING AND WELDED MESH GRID-LIKE STRUCTURES FOR DISPOSITION OVER OPENINGS AND FOR USE AS FENCING AND IN THE MANUFACTURE OF CAGES AND THE LIKE.
Claims use since Dec. 31, 1903.

Ser. No. 543,741. GEO. A. PLUMMER, doing business as Clearflow Valves, Berkeley, Calif. Filed Dec. 8, 1947. (Sec. 2f.)

CLEARFLOW

Applicant claims ownership of Registration No. 229,807.
FOR METAL FOOT VALVES, CHECK VALVES, AND BUTTERFLY VALVES USED IN WATER PUMPING SYSTEMS.
Claims use since Apr. 1, 1925.

Ser. No. 544,433. EDSAM SCREW MACHINE PRODUCTS, Maple Shade, N. J. Filed Dec. 16, 1947.

CHAMPION

FOR LAWN AND GARDEN ROTARY SPRINKLER.
Claims use since June 1947.

Ser. No. 544,575. THE HODELL CHAIN COMPANY, Cleveland, Ohio, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio, a corporation of Ohio. Filed Dec. 17, 1947. (Sec. 2f.)

CLEVELAND

Applicant claims ownership of Registration No. 92,792.
FOR WIRE CHAIN IN COILS, PORCH-SWING CHAINS, HAMMOCK-CHAINS, AND PUMP-CHAINS.
Claims use since 1893.

Ser. No. 558,495. MARKWELL MANUFACTURING COMPANY, INC., New York, N. Y. Filed June 4, 1948.

POWERPOINT

FOR MACHINE APPLIED AND COHERED STAPLES USED IN STAPLING MACHINES FOR FASTENING PAPERS, CARDBOARD, FABRICS, AND LIGHT GAGE METAL TOGETHER.
Claims use since May 28, 1948.

Ser. No. 560,841. ELIAS SHAPIRO, doing business as Alma Industries, Philadelphia, Pa., assignor to K-D Manufacturing Company, Lancaster, Pa. Filed July 7, 1948.

TRAV-L-RAK

The word "Rak" is disclaimed.
FOR HOOK HANGABLE OVER THE WINDOW OF AN AUTOMOBILE FROM WHICH GARMENT HANGERS MAY BE SUSPENDED.
Claims use since February 1948.

Ser. No. 566,971. JAMES B. CLOW & SONS, Chicago, Ill. Filed Oct. 14, 1948.

Applicant makes no claim to the word "Chicago."
Applicant claims ownership of Registration No. 113,866.
FOR PEDESTAL DRINKING FOUNDTAINS.
Claims use since 1948.

Ser. No. 570,242. ANDERSON-MILLER MANUFACTURING CO., Spokane, Wash. Filed Dec. 9, 1948.

FOR TUBULAR PIPES AND METAL PIPE FITTINGS TO FORM A CONDUIT FOR IRRIGATION PURPOSES.
Claims use since Apr. 19, 1947.

Ser. No. 584,757. FEDERAL MANUFACTURING & ENGINEERING CORP., Brooklyn, N. Y. Filed Sept. 13, 1949.

Snack-Toaster

The word "Toaster" is disclaimed.
FOR COOKING UTENSILS—NAMELY, SANDWICH GRILLS.
Claims use since July 11, 1949.

Ser. No. 585,479. JENNY KRAUSS, Roscommon, Mich. Filed Aug. 4, 1949.

The word "Bells" and the representation of the bell are disclaimed.
FOR BELLS.
Claims use since June 1, 1949.

Ser. No. 589,258. THE H. M. HARPER COMPANY, Morton Grove, Ill. Filed Dec. 13, 1949.

FOR THREADED BOLTS, NUTS, SCREWS, METAL WASHERS, AND RIVETS.
Claims use since Aug. 30, 1949.

Ser. No. 592,139. STANLEY G. FLAGG & CO., INC., Philadelphia, Pa. Filed Feb. 8, 1950.

FF-B

The drawing is lined for shading only. Applicant claims ownership of Registration No. 351,499.
FOR METAL PIPE FITTINGS.
Claims use since Nov. 1, 1949.

Ser. No. 592,433. MCCRACKEN MACHINE WORKS, Portland, Oreg. Filed Feb. 14, 1950. (Sec. 2f.)

MC CRACKEN

FOR COMBINATION AIR AND VACUUM RELIEF VALVES.
Claims use since 1925.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 581,104. UNIVERSAL UTILITY CO., Gloversville, N. Y. Filed June 25, 1949.

WONDER-SHEETS

The word "Sheets" is disclaimed.
FOR ALUMINUM FOIL SHEETS.
Claims use since Apr. 4, 1948.

CLASS 15

OILS AND GREASES

Ser. No. 587,088. ROCKWELL MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Oct. 31, 1949.

Hypermatic

FOR VALVE LUBRICATING GREASES.
Claims use since Sept. 20, 1949.

Ser. No. 592,612. CONSOLIDATED ENGINEERS COMPANY, INC., Chicago, Ill. Filed Feb. 17, 1950.

CARBO-SOL

FOR LIQUID FUEL OIL ADDITION TO ELIMINATE SLUDGE AND MOISTURE.
Claims use since Mar. 15, 1949.

Ser. No. 592,630. HODGES RESEARCH AND DEVELOPMENT COMPANY, Redwood City, Calif. Filed Feb. 17, 1950.

ORSIL

FOR ORGANIC SILICATE OILS AND GREASES FOR LUBRICATING PURPOSES.
Claims use since June 23, 1949.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 540,612. ARMSTRONG PAINT & VARNISH WORKS, Chicago, Ill. Filed Nov. 10, 1947.

ARMGLO

Applicant disclaims exclusive use of the word "Glo."
FOR READY MIXED PAINTS.
Claims use since 1926.

Ser. No. 549,020. EDWARD SMITH & CO., INC., New York, N. Y. Filed Feb. 6, 1948.

ESCOLITE

FOR SOFT WHITE PASTE COMPOSED OF TITANIUM AND ZINC OXIDES AND LEAD CARBONATE.
Claims use since 1930.

Ser. No. 565,064. MILTON BRADLEY COMPANY, Springfield, Mass. Filed Sept. 13, 1948.

CHIEFTAIN

FOR ARTISTS' FINGER PAINTS.
Claims use since February 1948.

Ser. No. 576,201. GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich. Filed Mar. 28, 1949.

Guardsman

GLO-LUSTRE

The word "Glo-Lustre" is disclaimed. Applicant claims ownership of Registrations Nos. 373,618, 422,772, and 422,773.
FOR PAINT ENAMEL.
Claims use since January 1949.

Ser. No. 587,216. U. S. INDUSTRIAL CHEMICALS, INC., New York, N. Y. Filed Nov. 2, 1949.

AROFLAT

FOR ALKYD SYNTHETIC RESIN VEHICLE USED IN THE MANUFACTURE OF FLAT WALL PAINTS.
Claims use since Sept. 30, 1949.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 538,962. ROBAPHARM LABORATORIUMS A. G., Basle, Switzerland. Filed Oct. 24, 1947.

OSSOPAN

Applicant claims ownership of Swiss Registration No. 109,171, dated Jan. 18, 1945.
FOR PREPARATIONS USED IN THE TREATMENT OF OSTEOMALACIA, OSTEOPOROSIS, BONE ATROPHY AS A SEQUEL TO BONE TUBERCULOSIS AND POLIOMYELITIS, BONE FRACTURES, DENTAL CARIES, AND MINERAL DEFICIENCY DURING PREGNANCY, LACTATION, AND IN INFANTS.

Ser. No. 580,033. PHYSICIANS AND HOSPITALS SUPPLY COMPANY, INC., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Filed June 6, 1949.

PANASAL

The drawing is lined for red.
FOR MEDICAL PREPARATION — NAMELY, A BRAND OF SODIUM SALICYLATE AND p-AMINOBENZOIC ACID ENTERIC COATED TABLET FOR TREATMENT OF ARTHRITIC CONDITIONS.
Claims use since Apr. 1, 1949.

Ser. No. 580,370. MAR-SHA, INC., Kansas City, Mo. Filed June 13, 1949.

Hair Magic

The word "Hair" is disclaimed.
FOR SCALP AND HAIR OINTMENT.
Claims use since Apr. 15, 1949.

Ser. No. 593,641. ABLIN LIMITED, London, England. Filed Mar. 8, 1950.

OVAID

Applicant claims ownership of British Registration No. 676,856, dated Feb. 8, 1949.
FOR PHARMACEUTICAL PREPARATIONS OF OVARIAN HORMONES FOR HUMAN USE AND VETERINARY USE.

Ser. No. 593,694. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed Mar. 9, 1950.

DRILITOL

FOR MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF RESPIRATORY TRACT CONDITIONS.
Claims use since Dec. 22, 1949.

Ser. No. 593,815. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRAPULE

FOR ANTIBIOTIC PREPARATION IN THE FORM OF AMPULES.
Claims use since Mar. 3, 1950.

Ser. No. 593,817. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRATROKE

FOR ANTIBIOTIC PREPARATION IN FORM OF TROCHES.
Claims use since Mar. 3, 1950.

Ser. No. 593,818. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRATABS

FOR ANTIBIOTIC PREPARATION IN FORM OF TABLETS.
Claims use since Mar. 3, 1950.

Ser. No. 593,819. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRAQUA

FOR AQUEOUS ANTIBIOTIC PREPARATION.
Claims use since Mar. 3, 1950.

Ser. No. 593,820. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRAPAK

FOR ANTIBIOTIC PREPARATION FOR DENTAL PURPOSES
Claims use since Mar. 3, 1950.

Ser. No. 593,824. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 11, 1950.

TERRACAPS

FOR ANTIBIOTIC PREPARATION IN FORM OF CAPSULES.
Claims use since Mar. 3, 1950.

Ser. No. 593,931. CHAS. PFIZER & CO., INC., Brooklyn, N. Y. Filed Mar. 14, 1950.

TERRAVIS

FOR ANTIBIOTIC PREPARATION FOR OPTICAL APPLICATIONS.
Claims use since Mar. 3, 1950.

CLASS 19

VEHICLES

Ser. No. 535,948. GAR WOOD INDUSTRIES, INC., Wayne, Mich. Filed Sept. 27, 1947.

MARKETER

FOR TRUCK AND TRAILER BODIES INCLUDING TANK BODIES FOR CARRYING LIQUIDS.
Claims use since Apr. 10, 1947.

Ser. No. 566,502. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo. Filed Oct. 6, 1948.

GAS HOPPER

The word "Gas" is disclaimed.
FOR AIRCRAFT REFUELING TRUCKS.
Claims use since May 7, 1947.

Ser. No. 579,645. MOLDED PRODUCTS, INC., Cockeysville, Md. Filed May 20, 1949.

WHIRLWIND

FOR OUTBOARD MOTOR BOATS.
Claims use since June 10, 1946.

Ser. No. 588,110. THE SLEETEX COMPANY, INC., New York, N. Y. Filed Nov. 19, 1949.

RAINEX

Applicant claims ownership of Registrations Nos. 332,598, 353,633, and 363,317.
FOR WINDSHIELD WIPER BLADES AND ADAPTERS FOR CONNECTING THE WIPER BLADES TO VARIOUS FORMS OF OPERATING ARMS.
Claims use since Mar. 22, 1949.

Ser. No. 590,216. BOEING AIRPLANE COMPANY, Seattle, Wash. Filed Dec. 31, 1949.

Stratocruiser

Applicant claims ownership of Registrations Nos. 375,853 and 376,449.
FOR AIRPLANES.
Claims use since Jan. 13, 1945.

Ser. No. 590,556. GILBERT F. MARTIN, Jonesville, Mich. Filed Jan. 9, 1950.

TOURAID

FOR COUPLERS SUCH AS FOR ATTACHING TRAILERS TO AUTOMOBILES, SAID COUPLERS BEING IN THE NATURE OF TRAILER HITCHES, TOGETHER WITH REPLACEMENT AND SUBSTITUTIVE PARTS THEREFOR.
Claims use since Fall of 1949.

Ser. No. 590,985. MACARTHUR PRODUCTS, INC., Springfield, Mass. Filed Jan. 17, 1950.

Mobiluggage

FOR SET OF WHEELS WITH BRACKETS THEREFOR TO BE REMOVABLY ATTACHED TO LUGGAGE, SUCH AS SUITCASES AND THE LIKE.
Claims use since Nov. 28, 1949.

Ser. No. 590,987. MACARTHUR PRODUCTS, INC., Springfield, Mass. Filed Jan. 17, 1950.

FLAGSHIP WHEELS

The word "Wheels" is disclaimed.
FOR SET OF WHEELS WITH BRACKETS THEREFOR TO BE REMOVABLY ATTACHED TO LUGGAGE, SUCH AS SUITCASES AND THE LIKE.
Claims use since Nov. 28, 1948.

Ser. No. 591,547. ARNOLD, SCHWINN & CO., Chicago, Ill. Filed Jan. 27, 1950.

Black Phantom

The word "Black" is disclaimed.
FOR BICYCLES.
Claims use since Aug. 28, 1949.

Ser. No. 594,642. THE HUFFMAN MANUFACTURING COMPANY, Dayton, Ohio. Filed Mar. 25, 1950.

HUFFY

FOR BICYCLES AND STRUCTURAL PARTS THEREOF.
Claims use since Feb. 23, 1950.

Ser. No. 594,772. MORTON HAGUE, doing business as Lazy Daisy International, Michigan City, Ind. Filed Mar. 28, 1950.

Lazy Daisy

FOR UTILITY CARTS.
Claims use since Apr. 3, 1949.

Ser. No. 594,901. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Mar. 30, 1950.

Busmaster

FOR BUSES.
Claims use since Feb. 27, 1950.

Ser. No. 595,013. FREDERICK STOCKHAUSEN, doing business under the name and style of U-Mak-It Products, New York, N. Y. Filed Mar. 31, 1950.

Flying Cloud

FOR KNOCK-DOWN PARTS FOR ROWBOATS, KAYAKS, RUNABOUTS, DINGEYS, CRUISERS, SAILBOATS, AND OUTBOARD BOATS.
Claims use since Mar. 13, 1950.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 566,488. AIR-MAZE CORPORATION, Cleveland, Ohio. Filed Oct. 6, 1948.

ELECTROMAZE

FOR ELECTROSTATIC FILTERS FOR ELECTRICALLY CHARGING AND REMOVING PARTICLES FROM A GASEOUS STREAM.
Claims use since Aug. 15, 1948.

Ser. No. 572,828. BOND VACUUM STORES, INC., Washington, D. C. Filed Jan. 26, 1949.

Zephyr Deluxe

The word "Deluxe" is disclaimed.
FOR ELECTRIC VACUUM CLEANERS.
Claims use since Nov. 10, 1948.

Ser. No. 574,174. WINCHARGER CORPORATION, Sioux City, Iowa. Filed Feb. 19, 1949.

WINCO

Applicant claims ownership of Registration No. 397,887.
FOR WIND-DRIVEN POWER APPARATUS AND PARTS THEREOF, PARTICULARLY WIND-DRIVEN ELECTRIC CURRENT GENERATOR APPARATUS AND PARTS THEREOF.
Claims use since March 1945.

Ser. No. 578,504. HOLT MANUFACTURING COMPANY, Oakland, Calif. Filed May 10, 1949.

COMMODORE

FOR ELECTRICAL PORTABLE FLOOR MACHINES.
Claims use since June 1936.

Ser. No. 578,886. OAK ELECTRIC MOTORS, INC., Burt Oak, Mich. Filed May 14, 1949.

TITAN

FOR ELECTRIC MOTORS.
Claims use since Nov. 1, 1921.

Ser. No. 580,527. THEODOR STIEBEL, Holzminden, Weser, Germany. Filed June 15, 1949.

STIEBEL ELTRON

The word "Stiebel" is disclaimed.
FOR ELECTRIC SPACE HEATERS; ELECTRIC IMMERSION HEATERS; ELECTRIC SWITCHES AND CONTROLLERS; ELECTRIC CURRENT SUPPLY REGULATORS; ELECTRICALLY HEATED WATER RESERVOIRS, STORAGE TANKS, AND SUPPLY TANKS; ELECTRICALLY HEATED OVEN AND HEARTH PLATES, KETTLES, PERCOLATORS, WAFFLE IRONS, COVERED POTS AND PANS, EGG POACHERS, BROILERS, DOUBLE BOILERS, AND GRILLS; AND ELECTRIC STOVES.
First used prior to Apr. 20, 1949, and first used between foreign nations and the United States which may be lawfully regulated by Congress on Apr. 20, 1949.

Ser. No. 584,164. STANDARD INSULATION COMPANY, East Rutherford, N. J. Filed Aug. 27, 1949.

SICO

Applicant claims ownership of Registration No. 231,047.
FOR INSULATING TAPES, VARNISHED CLOTH, PAPERS, VARNISHED PAPERS, VARNISHED SILK, VARNISHED DUCK, AND VARNISHED CANVAS IN SHEETS AND ROLLS, ALL USED FOR ELECTRICAL INSULATION.
Claims use since Jan. 1, 1917.

Ser. No. 585,158. DISPLAY LIGHTING, INCORPORATED, New York, N. Y. Filed Sept. 22, 1949.

SKYHOOK

FOR VERTICALLY ADJUSTABLE DEPENDING SUPPORTS FOR THEATRE AND STUDIO LIGHTS, MICROPHONES, AMPLIFIERS.
Claims use since June 3, 1949.

Ser. No. 595,149. PHILLIPS & BUTTORFF MFG. CO., Nashville, Tenn. Filed Apr. 3, 1950.

CRUSADER

FOR ELECTRIC RANGES, ELECTRIC WATER-HEATERS, ELECTRIC SPACE-HEATERS, AND ELECTRIC CIRCULATOR AIR-HEATERS.
Claims use since Mar. 15, 1950.

Ser. No. 595,273. WILLIAM F. MUSCH, Hamilton, Ohio. Filed Apr. 5, 1950.

TELEDOWN

FOR ELECTRICAL DOWN INDICATORS FOR FOOTBALL GAMES.
Claims use since Mar. 14, 1950.

Ser. No. 595,548. NATIONAL STEEL CONSTRUCTION CO., Seattle, Wash. Filed Apr. 11, 1950.

NATIONAL

FOR AUTOMATIC ELECTRIC WATER HEATERS.
Claims use since July 1924.

Ser. No. 596,484. CONTINENTAL CARBON, INC., Cleveland, Ohio. Filed Apr. 28, 1950.

NOBLELOY

Applicant claims ownership of Registration No. 412,552.
FOR ELECTRICAL RESISTORS.
Claims use since Sept. 12, 1944.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 586,784. ARGONAUT ENTERPRISES, INC., Sag Harbor, N. Y. Filed Oct. 25, 1949.

CAROTTI

The word "Carotti" is fanciful.
FOR DECKS OF PLAYING CARDS.
Claims use since June 15, 1949.

Ser. No. 592,576. PENNSYLVANIA RUBBER COMPANY, Jeannette, Pa. Filed Feb. 16, 1950.

FUN-IN-THE SUN

FOR PLAY BALLS.
Claims use since Sept. 15, 1949.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 524,465. HOLLY MOLDING DEVICES, INC., Chicago, Ill. Original filed, act of 1905, June 19, 1947; amended to application under act of 1946, Principal Register, Feb. 27, 1948.

DUROLINER

FOR CUT-TO-SIZE SHEETS OF WOVEN AND PLASTIC MATERIAL AND COMBINATIONS THEREOF, USED AS PATTY FORMING AND EJECTING ELEMENTS IN HAMBURGER PATTY MOLDING MACHINES.
Claims use since May 1947.

Ser. No. 527,156. SAUERMAN BROS., INC., Chicago, Ill. Filed July 5, 1947. (Sec. 2f.)

CRESCENT

Applicant claims ownership of Registration No. 183,904.
FOR POWER DRAG SCRAPERS.
Claims use since Mar. 26, 1921.

Ser. No. 528,353. LANDIS MACHINE COMPANY, St. Louis, Mo. Filed July 11, 1947. (Sec. 2f.)

Landis

Applicant claims ownership of Registration No. 209,030.
FOR MACHINE NEEDLES AND AWLS.
Claims use since July 1, 1924.

Ser. No. 539,105. O. E. THOMPSON & SONS, Ypsilanti, Mich. Filed Oct. 25, 1947. (Sec. 2f.)

THOMPSON

FOR GRASS AND GRAIN SEEDERS, DISTRIBUTORS, BROADCASTERS, AND SPREADERS, AND FOR KRAUT, VEGETABLE, AND SLAW CUTTERS.
Claims use since 1859.

Ser. No. 547,206. WARREN AXE AND TOOL COMPANY, Warren, Pa. Filed Jan. 15, 1948. (Sec. 2f.)

AVE THE WARREN MAN

FOR AXES.
Claims use since 1922.

Ser. No. 595,281. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,282. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,283. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,284. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,285. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,286. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,287. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,288. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,289. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,290. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,291. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,292. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,293. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,294. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,295. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,296. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,297. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,298. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,299. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,300. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,301. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,302. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,303. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,304. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,305. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,306. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,307. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,308. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,309. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,310. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,311. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,312. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,313. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,314. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,315. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,316. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,317. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,318. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,319. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,320. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,321. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,322. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,323. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,324. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,325. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,326. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,327. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,328. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,329. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,330. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,331. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,332. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,333. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,334. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,335. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,336. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,337. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,338. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,339. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,340. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,341. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,342. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,343. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,344. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,345. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,346. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,347. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,348. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,349. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,350. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,351. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,352. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,353. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,354. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,355. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,356. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,357. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,358. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,359. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,360. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,361. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,362. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,363. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,364. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,365. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,366. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,367. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,368. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,369. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,370. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,371. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,372. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,373. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,374. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,375. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,376. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,377. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,378. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,379. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,380. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,381. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,382. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,383. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,384. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,385. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,386. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,387. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,388. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,389. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,390. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,391. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,392. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,393. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,394. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,395. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,396. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,397. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,398. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,399. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,400. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,401. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,402. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,403. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,404. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,405. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,406. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,407. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,408. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,409. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,410. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,411. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,412. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,413. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES.
Claims use since Jan. 1, 1950.

Ser. No. 595,414. THE MAYTAG COMPANY, Newton, Iowa. Filed Apr. 5, 1950.

MAYTAG

FOR ELECTRIC WASHING MACHINES

Ser. No. 547,207. WARREN AXE AND TOOL COMPANY, Warren, Pa. Filed Jan. 15, 1948.

OLD FAITHFUL (AXE)

The word "Axe" is disclaimed.
FOR AXES.
Claims use since 1922.

Ser. No. 558,256. F. J. STOKES MACHINE COMPANY, Philadelphia, Pa. Filed June 1, 1948.

CRYOCHEM

FOR DESICCATING APPARATUS FOR DRYING MATERIALS FROM THE FROZEN STATE—NAMELY, DRYING CHAMBERS OF THE VACUUM TYPE AND CONTAINING A REGENERABLE CHEMICAL DESICCANT.
Claims use since 1937.

Ser. No. 558,257. F. J. STOKES MACHINE COMPANY, Philadelphia, Pa. Filed June 1, 1948.

DESIVAC

FOR DESICCATING APPARATUS FOR DRYING MATERIALS FROM THE FROZEN STATE—NAMELY, DESICCATING CHAMBERS IN WHICH THE MATERIAL TO BE DESICCATED IS PLACED AND IS MAINTAINED IN A FROZEN STATE AND IS SUBJECTED TO A VACUUM.
Claims use since 1939.

Ser. No. 560,824. THE MONARCH MACHINE TOOL COMPANY, Sidney, Ohio. Filed July 7, 1948.

MONA-MATIC

FOR METAL TURNING LATHE PROVIDED WITH CONTOUR TRACER CONTROL EQUIPMENT.
Claims use since Dec. 31, 1947.

Ser. No. 562,105. U. S. SLICING MACHINE COMPANY, INC., La Porte, Ind. Filed July 23, 1948.

"DELICATOR"

Applicant claims ownership of Registration No. 370,321.
FOR MEAT TENDERING AND SLICING MACHINES AND PARTS THEREOF AND THEREFOR.
Claims use since Apr. 4, 1939.

Ser. No. 567,740. THE JAEGER MACHINE COMPANY, Columbus, Ohio. Filed Oct. 21, 1948. (Sec. 2f.)

AIR PLUS JAEGER COMPRESSOR

Applicant disclaims the words "Compressor" and "Air."
FOR AIR COMPRESSORS.
Claims use since Sept. 1, 1943.

Ser. No. 572,954. EASTERN CLAY PRODUCTS, INC., Jackson, Ohio. Filed Jan. 28, 1949.

DURABUTTON

FOR RESILIENT WEAR INSERTS EMPLOYED IN FOUNDRY MOLD APPARATUS SUCH AS CORE BOXES, FLASKS, AND THE LIKE.
Claims use since Jan. 10, 1949.

Ser. No. 573,866. RAY BOCKMAN, doing business under the name of Nusite, Warsaw, Ind. Filed Feb. 15, 1949.

Rayco

FOR STEEL CUTTING TOOLS FOR MACHINES—NAMELY, LATHES, MILLING MACHINES, SCREW MACHINES AND AUTOMATIC MACHINES; STEEL HAND PUNCHES; AND STEEL PUNCHES AND DIES FOR MACHINES—NAMELY, HAND PRESSES, POWER PRESSES, SHEARS, FORMING MACHINES, HEADING MACHINES, AND THREADING MACHINES; ALL SUCH TOOLS AND PUNCHES BEING USED FOR FABRICATING STEEL, CAST OR MALLEABLE IRON, ALUMINUM, BRASS, PLASTIC, AND OTHER MATERIALS.
Claims use since May 1, 1948.

Ser. No. 579,075. BELKNAP HARDWARE AND MANUFACTURING COMPANY, Louisville, Ky. Filed May 19, 1949.

CYCLONE

FOR HATCHETS, NAIL HAMMERS, SAWS, BRICK TROWELS, PLASTER TROWELS, GRASS SCYTHES, GRASS HOOKS, BUSH HOOKS, CORN HOOKS, GRASS SHEARS, GARDEN HOES, FIELD HOES, SIDEWALK SCRAPERS, MANURE FORKS, GARDEN RAKES, SHOVELS, SPADES, SHOVEL HANDLES, SPADE HANDLES, MATTOCKS, RAILROAD PICKS, WATER PUMPS, AIR PUMPS, AND LAWN MOWERS.
Claims use since June 1, 1900.

Ser. No. 579,995. BERNARD S. OREN, doing business as United States Industries, Chicago, Ill. Filed June 4, 1949.

SHOP CHIEF

Applicant disclaims the word "Shop."
FOR POWER DRIVEN SANDING MACHINES AND PARTS THEREOF.
Claims use since Mar. 15, 1949.

Ser. No. 583,262. H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 10, 1949. (Sec. 2f.)

LEADER

FOR HAND-OPERATED COMPRESSION SPRAYERS.
Claims use since Dec. 31, 1937.

Ser. No. 585,106. LOUIS H. DIAMOND, Colorado Springs, Colo. Original filed, act of 1946, Principal Register, Sept. 21, 1949; amended to application, Supplemental Register, June 12, 1950; amended to application, Principal Register, Oct. 12, 1950.

THE GEM OF TOOLS

The word "Tools" is disclaimed.
FOR WRENCHES.
Claims use since Feb. 15, 1949.

Ser. No. 589,645. THE DIAMOND MATCH COMPANY, New York, N. Y. Filed Dec. 20, 1949. (Sec. 2f.)

BRIGHTWOOD

FOR WOODEN SPOONS AND WOODEN FORKS.
Claims use since 1940.

Ser. No. 590,285. RONEO LIMITED, London, England. Filed Jan. 3, 1950.

RONEO

Applicant claims ownership of British Registration No. 241,483, dated Oct. 23, 1901, and United States Registration No. 182,682.
FOR DUPLICATING MACHINES AND THEIR PARTS, DUPLICATING APPARATUS AND THEIR PARTS, ADDRESSING MACHINES AND THEIR PARTS, ALL FOR OFFICE USE.

Ser. No. 590,437. HYPRO ENGINEERING, INC., Minneapolis, Minn. Filed Jan. 6, 1950.

HYPROMATIC

FOR WATER SUPPLY SYSTEMS COMPRISING PUMPS, ELECTRIC AND GASOLINE MOTORS, TANKS, VALVES, AND PIPE FITTINGS THEREFOR SOLD AS A UNIT.
Claims use since June 1949.

Ser. No. 590,894. KIWI CODERS CORPORATION, Chicago, Ill. Filed Jan. 14, 1950.

KIWI

FOR PRINTING APPARATUS ADAPTED TO BE MOUNTED RELATIVE TO CONVEYORS FOR PRINTING OR MARKING INDICIA ON PACKAGES MOVING ON SAID CONVEYORS AND SOLD AS A UNIT, AND PARTS AND SUPPLIES FOR SUCH APPARATUS, COMPRISING PRINTING WHEELS, INKING WHEELS, NUMBERERS, AND REPLACEMENT MEMBERS.
Claims use since Sept. 15, 1948.

Ser. No. 593,754. STANDARD MOTOR PRODUCTS, INC., Long Island City, N. Y. Filed Mar. 10, 1950. (Sec. 2f.)

HYGRADE

Applicant claims ownership of Registration No. 328,031.
FOR REPLACEMENT AND REPAIR PARTS, AND SERVICING KITS AND TOOLS FOR THE AUTOMOTIVE INDUSTRY—NAMELY, FUEL PUMPS OF THE NON-SELF-MEASURING VARIETY AND PARTS, RECONDITIONING PARTS KITS FOR FUEL PUMPS, INCLUDING GASKETS, SPRINGS, DIAPHRAGMS, ROCKER ARMS, SCREENS, LINKS, VALVES AND PINS FOR FUEL PUMPS, AND SERVICING TOOLS FOR FUEL PUMPS, INCLUDING JIGS AND GAUGES FOR ADJUSTING THE SAME; CARBURETOR PARTS, AND RECONDITIONING PARTS KITS FOR CARBURETORS, INCLUDING CARBURETOR SPRINGS, GASKETS, JETS, METERING RODS, NEEDLES AND SEATS, LINKS, NOZZLES AND SCREWS, AND SERVICING TOOLS FOR CARBURETORS INCLUDING JIGS AND GAUGES FOR ADJUSTING CARBURETORS; SAID PARTS KITS BEING SOLD AS A UNIT.
Claims use since March 1927.

Ser. No. 594,504. NATHAN H. TURKIN, doing business under the name of Kenron Steel Products, Chicago, Ill. Filed Mar. 23, 1950.

KENRON

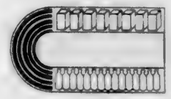
FOR MOTOR DRIVEN WATER PUMPS.
Claims use since February 1950.

Ser. No. 595,956. HELLER BROTHERS COMPANY, Newark, N. J. Filed Apr. 19, 1950. (Sec. 2f as to "Heller.")

HELLER *Majestic* TROWELS

The word "Trowels" is disclaimed. Applicant claims ownership of Registration No. 370,687.
FOR TROWELS.
Claims use since Nov. 15, 1949, on the mark as shown; and since 1877 on the word "Heller."

Ser. No. 597,862. PNEUMATIC SCALE CORPORATION, LIMITED, Quincy, Mass. Filed Apr. 18, 1950.



No claim is made to the outline representations of the bottles and cartons. Applicant claims ownership of Registration No. 401,838.
FOR MECHANICAL PACKAGING AND BOTTLING MACHINERY — NAMELY, CARTON FEEDING MACHINES, CARTON LINING MACHINES, BOTTOM SEALING MACHINES, TOP SEALING MACHINES,

LABELING MACHINES, BAG FLOUR MACHINES, WRAPPING MACHINES, TEA BAG MACHINES, VOLUME FILLING MACHINES, MISCELLANEOUS CONVEYORS FOR HAND PACKING, COMBINED TOP CLOSURE MACHINES, DOUBLE PACKAGE MAKER MACHINES, MACHINE ATTACHMENTS FOR PRINTING DATES ON CONTAINERS, COUPON FEEDING MACHINES, PACKAGE ACCUMULATOR MACHINES, PACKAGE PLUNGER MACHINES, CONTAINER CLEANING MACHINES, CONTAINER FILLING MACHINES, CAPPING MACHINES, CAP FEEDING MACHINES, AND CORKING MACHINES.
Claims use since Sept. 1, 1937.

Ser. No. 601,160. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

EARL

FOR STAINLESS STEEL TABLE CUTLERY—NAMELY, KNIVES, FORKS, AND SPOONS.
Claims use since May 29, 1950.

Ser. No. 601,165. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 24, 1950.

VANGUARD

FOR STAINLESS STEEL TABLE CUTLERY—NAMELY, KNIVES, FORKS, AND SPOONS.
Claims use since May 29, 1950.

Ser. No. 601,456. NATIONAL SILVER COMPANY, New York, N. Y. Filed July 29, 1950.

TOWN AND VILLAGE

FOR STAINLESS STEEL TABLE CUTLERY—NAMELY, KNIVES, FORKS, AND SPOONS.
Claims use since May 2, 1950.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 573,994. TEXTILE MILLS COMPANY, Chicago, Ill. Filed Feb. 16, 1949.

The representation of a woman is fanciful. The term "Knit" and the representation of the ironing board are disclaimed. Applicant claims ownership of Registration No. 409,372.
FOR IRONING BOARD PADS AND IRONING BOARD COVERS.
Claims use since Sept. 27, 1948.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 510,255. IMAGINEERING ASSOCIATES, INCORPORATED, Los Angeles, Calif. Original filed, act of 1905, Oct. 4, 1946; amended to application under act of 1946, Principal Register, Sept. 12, 1950.

Imagineering

FOR SCIENTIFIC AND INDUSTRIAL MODELS FOR STUDY, PLANNING, TESTING, AND TRAINING PURPOSES.
Claims use since July 1, 1946.

Ser. No. 568,304. FAIRBRIDGE CO. INCORPORATED, Bridgeport, Conn. Filed Nov. 6, 1948.

LEK-TRO-LENS

The word "Lens" is disclaimed.
FOR MAGNIFYING LENS ATTACHMENTS FOR INCANDESCENT ELECTRIC BULBS.
Claims use since Nov. 3, 1948.

Ser. No. 582,526. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed July 26, 1949.

KODAR

Applicant claims ownership of Registrations Nos. 85,423 and 399,092.
FOR PHOTOGRAPHIC LENSES.
Claims use since Apr. 26, 1949.

Ser. No. 587,732. KARL KNICKERBOCKER, doing business under the assumed name of Photo Products Co., St. Clair, Mich. Filed Nov. 14, 1949.

FOR PHOTOGRAPHIC SUPPLIES—NAMELY, FILM CARRYING REELS AND CANS.
Claims use since July 1, 1949.

Ser. No. 590,728. ALFA PHOTO CORP., New York, N. Y., assignor to Agfa Camera Werk Munchen, Munich, Germany, a corporation under United States administration. Filed Jan. 12, 1950.

Ventura

FOR CAMERAS.
Claims use since Dec. 12, 1949.

Ser. No. 595,778. HEWLETT-PACKARD COMPANY, Palo Alto, Calif. Filed Apr. 15, 1950.

FOR VOLTMETERS.
Claims use since January 1941.

Ser. No. 595,780. HEWLETT-PACKARD COMPANY, Palo Alto, Calif. Filed Apr. 15, 1950.

FOR FREQUENCY METERS, TACHOMETERS, VOLTMETERS, AND WATTMETERS.
Claims use since January 1947.

Ser. No. 597,390. EASTMAN KODAK COMPANY, Flemington, N. J., and Rochester, N. Y. Filed May 13, 1950.

Chevron

FOR PHOTOGRAPHIC CAMERAS.
Claims use since May 3, 1950.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 558,511. JAY ROSE, New York, N. Y. Filed June 4, 1948.

STRIKEMASTER

FOR ELECTRIC CLOCKS WHICH SOUND THE HOUR.
Claims use since Jan. 7, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 571,562. LOS ANGELES BRUSH MFG. CORP., Los Angeles, Calif. Filed Jan. 3, 1949.

HOME-EASE

FOR BRUSHES FOR INDOOR AND OUTDOOR USE—NAMELY, PAINT BRUSHES, DUSTING BRUSHES, CLEANING BRUSHES, CLOTHES BRUSHES, SHOE BRUSHES, UPHOLSTERY BRUSHES, AND FLOOR BRUSHES.
Claims use since Nov. 16, 1948.

Ser. No. 575,464. SAMUEL M. DELL & CO., INCORPORATED, Baltimore, Md. Filed Mar. 15, 1949.

FOR PAINT BRUSHES AND VARNISH BRUSHES.
Claims use since January 1937.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 567,572. FULPER POTTERY COMPANY, Trenton, N. J. Filed Oct. 25, 1948. (Sec. 2f.)

Stangl

FOR DISHES AND VASES FORMED OF A CERAMIC BODY.
Claims use since 1927.

Ser. No. 588,801. THEODORE HAVILAND & CO. INC., New York, N. Y., now by change of name, Haviland & Co., Incorporated. Filed Dec. 5, 1949.

Theodore Haviland New York

The words "New York" are disclaimed.
FOR PORCELAIN, CHINA, AND VITRIFIED DINNERWARE.
Claims use since July 14, 1938.

Ser. No. 592,491. HAVILAND & CO., INCORPORATED, New York, N. Y., by change of name from Theodore Haviland & Co. Inc. Filed Feb. 15, 1950. (Sec. 2f.)

Haviland

Applicant claims ownership of Registrations Nos. 221,148 and 277,592.
FOR PORCELAIN, CHINA, AND VITRIFIED DINNERWARE.
Claims use since 1842.

Ser. No. 595,132. THE FRENCH SAXON CHINA COMPANY, Sebring, Ohio. Filed Apr. 3, 1950.

Aloha

FOR GLAZED CERAMIC DISHES.
Claims use since Mar. 22, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 580,882. GAMBLE-SKOGMO, INC., Minneapolis, Minn. Filed June 22, 1949.

Coronado

Applicant claims ownership of Registration No. 356,509.
FOR HOUSEHOLD ELECTRIC REFRIGERATORS, REFRIGERATED STORAGE LOCKERS FOR HOME AND COMMERCIAL USE, AND WATER SOFTENING PLANTS OF THE ZEOLITE TYPE.
Claims use since April 1932.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 548,256. HAMPTON FURNITURE SHOPS, New York, N. Y., assignor to Hampton Modern, Inc., Paterson, N. J., a corporation of New Jersey. Filed Jan. 29, 1948. (Sec. 2f.)

Hampton Furniture Shops

Applicant disclaims the word "Furniture." Applicant claims ownership of Registration No. 392,881.
FOR REFECTORY TABLES, COFFEE TABLES, LAMP TABLES, OCCASIONAL TABLES, EXTENSION TABLES; LIVING ROOM CHAIRS, DINING ROOM CHAIRS, OCCASIONAL CHAIRS; BEDS; DRESSERS, DAVENPORTS, SETTEES, DESKS, BOOKCASES, BACHELOR CHESTS, WARDROBE CHESTS, LINEN CHESTS; END TABLES AND FOOT STOOLS.
Claims use since Mar. 22, 1912.

Ser. No. 573,143. HERBERT RITTS, INC., doing business as Tropicmode Furniture Co., Los Angeles, Calif. Filed Feb. 1, 1949.

DURATTAN

FOR CHAIRS, TABLES, AND SETTEES.
Claims use since Jan. 22, 1948.

Ser. No. 590,515. NORTHOME FURNITURE INDUSTRIES, INC., Dubuque, Iowa. Filed Jan. 7, 1950.

FLEX-O-BED

The word "Bed" is disclaimed.
FOR SOFA BEDS.
Claims use since Dec. 21, 1949.

Ser. No. 591,074. DREXEL FURNITURE COMPANY, Drexel, N. C. Filed Jan. 19, 1950.

PRECEDENT

Applicant claims ownership of Registration No. 529,719.
FOR LIVING ROOM FURNITURE — NAMELY, CHAIRS, TABLES, BOOKSHELVES, DESKS, LOUNGE FRAMES, TYPEWRITER CABINETS, DRAWER CABINETS; DINING ROOM FURNITURE — NAMELY, CHAIRS, TABLES, CHESTS OF DRAWERS, STORAGE CABINETS, SIDEBOARDS, MIRRORS; BEDROOM FURNITURE — NAMELY, BEDS, NIGHT TABLES, BENCHES, CHEST NIGHT STANDS, NIGHT STAND CABINETS, VANITIES, VANITY MIRRORS, MIRRORS, CHESTS OF DRAWERS, UTILITY CABINETS.
Claims use since Nov. 30, 1949.

CLASS 33

GLASSWARE

Ser. No. 597,288. NEWLAND, SCHNEELOCH & PIEK, INC., New York, N. Y. Filed May 11, 1950.

ORCHARD

Applicant claims ownership of Registrations Nos. 389,083 and 516,512.
FOR GLASS DINNERWARE.
Claims use since Feb. 21, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 528,265. C. A. DUNHAM COMPANY, Chicago, Ill. Filed July 10, 1947. (Sec. 2f.)

The DUNHAM HEATING SERVICE

No claim is made to the exclusive use of the words "The," "Heating" or "Service." Applicant claims ownership of Registrations Nos. 127,926 and 201,039.
FOR STEAM HEATING APPARATUS COMPRISING CONTROL EQUIPMENT, VALVES, STRAINERS, PUMPS, UNIT HEATERS, CONVECTORS, FITTINGS, HEATING ELEMENTS, AND AIR CONDITIONERS ALL FOR USE IN CONNECTION WITH, OR FORMING PART OF, STEAM OR HOT WATER HEATING SYSTEMS AND TRAPS, FLASH TANKS, AND AIR ELIMINATORS ALL FOR USE IN CONNECTION WITH, OR FORMING PART OF, STEAM HEATING SYSTEMS.
Claims use on traps and valves since Aug. 12, 1918; on air eliminators since 1919; on strainers since 1923; on fittings since 1925; on pumps since 1938; on control equipment since 1929; on convectors since 1930; on flash tanks since 1932; on unit heaters and heating elements since 1934; and on air conditioners since 1941.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 532,203. BETTIS RUBBER COMPANY, Los Angeles, Calif. Filed Aug. 23, 1947. (Sec. 2f.)

BETTIS

FOR DRILL PIPE PROTECTORS, MADE PRINCIPALLY OF RUBBER.
Claims use since Nov. 1, 1933.

Ser. No. 563,477. HASTINGS MANUFACTURING COMPANY, Hastings, Mich. Filed Aug. 16, 1948. (Sec. 2f.)

STEEL-VENT

FOR PISTON RINGS.
Claims use since Dec. 1, 1935.

Ser. No. 572,618. ENDLESS BELT CORPORATION, Pisgah Forest, N. C. Filed Dec. 24, 1948. (Sec. 2f.)

ENDLESS WOVEN

Applicant claims ownership of Registrations Nos. 402,886 and 403,740.
FOR LINEN, COTTON, AND OTHER FABRIC ENDLESS BELTS SUITABLE FOR FORMING, ELEVATING, AND CONVEYING PURPOSES.
Claims use since Nov. 27, 1918.

Ser. No. 578,576. DURAMETALLIC CORPORATION, Kalamazoo, Mich. Filed May 11, 1949.

Dura Plastic

The word "Plastic" is disclaimed. Applicant claims ownership of Registration No. 263,368.
FOR PACKING IN PLASTIC FORM, CONTAINING A SUBSTANTIAL PORTION OF METALLIC MATERIAL, FOR MOVING PARTS SUCH AS SHAFTS, PISTON RODS, AND THE LIKE.
Claims use since Nov. 15, 1928.

Ser. No. 579,246. WOLVERINE FABRICATING & MFG. CO., INC., Inkster, Mich. Filed May 20, 1949.

LO-TORK

FOR SHEET PACKING AND GASKET MATERIAL COMPRISING A PAPER BASE MATERIAL IMPREGNATED OR SATURATED WITH RUBBER AND SHEET GASKETS CUT FROM SUCH SHEET MATERIAL.
Claims use since Mar. 30, 1949.

Ser. No. 579,953. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed June 3, 1949.

FLEXLITE

FOR HOSE MADE OF RUBBER AND FABRIC.
Claims use since Mar. 9, 1949.

Ser. No. 580,238. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed June 10, 1949.

SQUEEGEE

FOR PNEUMATIC TIRES.
Claims use since Feb. 20, 1939.

Ser. No. 581,361. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 30, 1949.

FARM-MASTER

The word "Farm" is disclaimed.
FOR TRACTOR TIRES.
Claims use since Oct. 22, 1948.

Ser. No. 583,050. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Aug. 5, 1949. (Sec. 2f as to "Rhoads.")

RHOADS FLOUR MILL BELT

The words "Flour Mill Belt" are disclaimed. Applicant claims ownership of Registration No. 510,597.
FOR BELTING.
Claims use since July 27, 1949, as to the mark shown; and since 1890 as to "Rhoads."

Ser. No. 583,466. CORDS PISTON RING MANUFACTURING CO. INC., Los Angeles, Calif. Filed Aug. 15, 1949.

CORDS

The representation of the piston ring is disclaimed. Applicant claims ownership of Registration No. 310,962.
FOR PISTON RINGS.
Claims use since Mar. 1, 1946.

Ser. No. 596,939. THE PEP BOYS—MANNY, MOE & JACK, Philadelphia, Pa. Filed May 5, 1950.

BELNORD

Applicant claims ownership of Registration No. 265,709.
FOR VEHICLE TIRES AND TUBES THEREFOR MADE OF RUBBER AND RUBBER FABRIC.
Claims use since Feb. 9, 1929.

CLASS 37

PAPER AND STATIONERY

Ser. No. 504,846. GEORG JENSEN INC., New York, N. Y. Original filed, act of 1905, June 29, 1946; amended to application under act of 1946, Principal Register, Jan. 13, 1948.

Georg Jensen was a famous Danish sculptor and silversmith who died in 1935. Applicant claims ownership of Registration No. 384,180.
FOR DESK SETS AND ACCESSORIES MADE OF, OR HAVING A SETTING OF, LEATHER—NAMELY, DESK PADS, CORRESPONDENCE BOXES, ENGAGEMENT BOOKS, MEMO PAD HOLDERS, DESK FILES, HAND BLOTTERS, DESK CALENDARS, STAMP BOXES, LETTER OPENERS, PEN AND PENCIL STANDS AND INK WELLS.
Claims use since June 5, 1942.

Ser. No. 555,098. THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio. Filed Apr. 20, 1948.

BOBIT

FOR SANITARY NECKBANDS MADE IN THE FORM OF PAPER BANDS USED BY BARBERS, HAIRDRESSERS, AND THE LIKE.
Claims use since May 1, 1926.

Ser. No. 589,749. A. G. VERDOLYACK INC., Minneapolis, Minn. Filed Dec. 21, 1949.

Verd-O-Lite

FOR PAPER SHEETING FOR HOSPITAL AND PHYSICIAN'S EXAMINING AND TREATING TABLES.
Claims use since February 1943.

Ser. No. 589,818. VUE MATIC COMPANY, Providence, R. I. Filed Dec. 22, 1949.

VUE-MATIC

FOR BOOKKEEPING AND PAYROLL FORMS ENCLOSED IN BINDERS, PARTICULARLY PAY-ROLL SYSTEMS.
Claims use since Jan. 1, 1949.

Ser. No. 590,113. WILLIAM F. TUFTS, doing business as Research Industries, Atlanta, Ga. Filed Dec. 29, 1949.

GRIPPO GUARD

The word "Guard" is disclaimed.
FOR SLIP RESISTANT PANTS GUARD MADE OF PAPER FOR COAT HANGERS.
Claims use since May 27, 1949.

Ser. No. 590,471. THE VISKING CORPORATION, Chicago, Ill. Filed Jan. 6, 1950.

VisQueen

Applicant claims ownership of Registrations Nos. 503,347, 519,328, and 522,551.
FOR THIN FILM MADE OF PLASTIC AND SOLD IN THE FORM OF, CONTINUOUS AND CUT LENGTHS, TUBING, AND SHEETS FOR USE AS WRAPPING AND PACKAGING MATERIAL.
Claims use since Jan. 2, 1948.

Ser. No. 592,243. AMERICAN REENFORCED PAPER COMPANY, Attleboro, Mass. Filed Feb. 10, 1950.

FIBREEN

Applicant claims ownership of Registrations Nos. 140,313 and 203,216.
FOR REENFORCED PAPER FOR WRAPPING AND PACKAGING.
Claims use since Aug. 1, 1921.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 565,860. ROBERT MOORE & CO., New York, N. Y. Filed Sept. 16, 1948.

Cotton Comments

FOR SEMI-MONTHLY LETTER.
Claims use since Mar. 14, 1936.

Ser. No. 590,321. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed Jan. 4, 1950.

The CHILDREN'S DIGEST

Applicant makes no claim to the word "Digest." Applicant claims ownership of Registrations Nos. 190,516 and 392,199.
FOR MAGAZINE PUBLISHED MONTHLY.
Claims use since Dec. 14, 1949.

Ser. No. 591,695. NORCROSS, INC., New York, N. Y. Filed Jan. 30, 1950.

SASSY

FOR GREETING CARDS, PRINTED GREETING FOLDERS, PRINTED SEALS, AND PRINTED DECORATIVE TAGS.
Claims use since Jan. 11, 1950.

Ser. No. 591,971. WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed Feb. 3, 1950.

Counter Points

FOR PERIODICAL PUBLICATION.
Claims use since February 1937.

Ser. No. 592,001. NORCROSS, INC., New York, N. Y. Filed Feb. 4, 1950.

FLUORESCENT FLO

FOR GREETING CARDS, PRINTED GREETING FOLDERS, PRINTED SEALS, AND PRINTED DECORATIVE TAGS.
Claims use since Jan. 11, 1950.

Ser. No. 592,515. PILLAR OF FIRE, Zarephath, N. J. Filed Feb. 15, 1950.

Pillar of Fire

FOR PERIODICAL PUBLICATIONS.
Claims use since July 1904.

Ser. No. 592,679. FRATERNITY OF PHI GAMMA DELTA, Washington, D. C. Filed Feb. 3, 1950.

THE PHI GAMMA DELTA

FOR PERIODICAL PUBLICATION.
Claims use since 1879.

Ser. No. 592,715. MESSENGER CORPORATION, Auburn, Ind. Filed Feb. 18, 1950.

Merry Maker

FOR GREETING CARDS.
Claims use since Sept. 8, 1949.

Ser. No. 592,925. NEW YORK HERALD TRIBUNE INC., New York, N. Y. Filed Feb. 23, 1950.

SKEETS

FOR COMIC STRIP.
Claims use since May 1, 1932.

CLASS 39

CLOTHING

Ser. No. 528,922. GOOD LUCK GLOVE COMPANY, Carbondale, Ill. Filed July 19, 1947. (Sec. 2f.)

ANGORA

FOR FABRIC WORK GLOVES.
Claims use since August 1932.

Ser. No. 543,414. H & L BLOCK, San Francisco, Calif. Filed Dec. 5, 1947. (Sec. 2f.)

BLOCK

Applicant claims ownership of Registration No. 298,354.
FOR SPORTSWEAR—NAMELY, COATS, JACKETS, AND OUTER SHIRTS.
Claims use since 1941.

Ser. No. 545,321. YOUNG'S MERCHANDISING CORPORATION, New York, N. Y. Filed Dec. 23, 1947.

BEAUFELT

"The Young Touch"

Applicant claims ownership of Registration No. 397,597.
FOR GENUINE FUR FELT HATS FOR MEN.
Claims use since Sept. 13, 1943, as to the mark shown; and since January 1940 as to "The Young Touch."

Ser. No. 545,852. INDERA MILLS COMPANY, Winston-Salem, N. C. Filed Dec. 31, 1947. (Sec. 2f as to "Figurfit.")

Indera
FIGURFIT

Applicant claims ownership of Registrations Nos. 323,206, 99,052, and 98,955.
FOR BATHING SUITS; LADIES', CHILDREN'S, AND MISSES' KNITTED AND WOVEN SLIPS; LADIES' KNITTED AND WOVEN PETTICOATS, PAJAMAS, NIGHTGOWNS, AND DRESSES; LADIES' PANTIES, DANCE SUITS IN THE NATURE OF OUTERWEAR COMPRISED OF SHORTS AND BRASSIÈRE, TUNICS AND TIGHTS, OR ONE-PIECE GARMENTS; BLOUSES, SWEATERS AND SKIRTS.
Claims use since Mar. 28, 1914.

Ser. No. 569,785. DAN WAHL, New York, N. Y. Filed Dec. 2, 1948.

ARTMASTER

FOR BOW TIES, STRAIGHT TIES, DRESS SHIRTS, SCARFS, SWEATERS, BATH ROBES, BATH SLIPPERS, SPORT JACKETS, SPORT SHIRTS, MEN'S SHORTS, UNDERSHIRTS, UNDERWEAR, SKI PAJAMAS, SOCKS, PAJAMAS, HANDKERCHIEFS, APPAREL BELTS, VESTS, SMOKING JACKETS, LOUNGING ROBES, SUSPENDERS AND MEN'S GARTERS.
Claims use since Sept. 12, 1947.

Ser. No. 573,282. WOODS MANUFACTURING COMPANY LIMITED, Montreal, Quebec, Canada, and Ogdensburg, N. Y. Filed Feb. 3, 1949.

ARCTIC

FOR SLEEPING ROBES AND HUNTING AND SPORTING JACKETS FOR MEN.
Claims use since 1910.

Ser. No. 575,923. OGUS, RABINOVICH & OGUS, INC., New York, N. Y. Filed Mar. 23, 1949. (Sec. 2f.)

Pierpont

Applicant claims ownership of Registration No. 339,868.
FOR LADIES' HATS AND APPAREL—NAMELY, COATS, SUITS, AND DRESSES.
Claims use since February 1933.

Ser. No. 576,424. ROOSEVELT MILLS, INCORPORATED, Manchester, Conn. Original filed, act of 1946, Supplemental Register, Mar. 31, 1949; amended to application, Principal Register, July 25, 1950.

The drawing is lined for shading only. The name "Billie Scott" is fanciful.
FOR SWEATERS.
Claims use since Jan. 2, 1947.

Ser. No. 584,957. ADAM HAT STORES, INC., New York, N. Y. Filed Sept. 17, 1949.

AQUA-THERMA

FOR MEN'S HATS.
Claims use since Aug. 29, 1949.

Ser. No. 585,937. HICKOK MANUFACTURING CO. INC., Rochester, N. Y. Filed Oct. 7, 1949.

Sun'n'Moon

FOR SUSPENDERS AND GARTERS.
Claims use since Mar. 22, 1949.

Ser. No. 586,648. NAVARRO BROTHERS, El Paso, Tex. Filed Oct. 21, 1949.

The words "Navarro's" and "Brand" are disclaimed.
FOR WESTERN STYLE OUTDOOR CLOTHING—NAMELY, MEN'S, WOMEN'S, AND CHILDREN'S SHIRTS MAINLY OF TEXTILE FABRICS, WOOL, COTTON, AND RAYON; MEN'S AND BOY'S PANTS AND WOMEN'S JEANS OF BLUE COTTON DENIM; MEN'S, WOMEN'S, AND CHILDREN'S HAND WOVEN WOOL FOUR-IN-HAND NECKTIES; MEN'S WOMEN'S, AND CHILDREN'S COTTON, WOOL, AND RAYON SCARVES; MEN'S, WOMEN'S, AND CHILDREN'S LEATHER JACKETS WITH FRINGE; MEN'S AND BOY'S FELT HATS; WOMEN'S COTTON AND WOOL SKIRTS; WOMEN'S COTTON, WOOL, AND RAYON BLOUSES; AND MEN'S, WOMEN'S, AND CHILDREN'S ALL LEATHER SHOES AND BOOTS, HAVING "GOODYEAR" WELTS.
Claims use since Oct. 8, 1946.

Ser. No. 586,910. WM. P. GOLDMAN & BROS., INC., New York, N. Y. Filed Oct. 27, 1949.

Shantung Spray

The word "Shantung" is disclaimed.
FOR MEN'S SUITS, TOPCOATS, OVERCOATS, SLACKS, SPORT COATS, AND JACKETS.
Claims use since June 30, 1949.

Ser. No. 587,438. GOLDSTONE BROS., San Francisco, Calif. Filed Nov. 7, 1949.

Applicant disclaims the representation of the map of California and the word "California."
FOR BOYS' JEANS, PANTS, AND TROUSERS.
Claims use since June 21, 1949.

Ser. No. 587,626. DONOVAN ENTERPRISES, INCORPORATED, Saugatuck, Conn. Filed Nov. 10, 1949.

COAT O' PAINT

The word "Coat" is disclaimed.
FOR CHILDREN'S COATS.
Claims use since Sept. 29, 1949.

Ser. No. 587,929. B. ALTMAN & CO., New York, N. Y. Filed Nov. 17, 1949.

MURRAY HILL

The name "Murray Hill" is fanciful. Applicant claims ownership of Registration No. 427,776.
FOR MEN'S SUITS, SPORT COATS, TOPCOATS, AND OVERCOATS.
Claims use since Nov. 5, 1949.

Ser. No. 587,977. C. B. SHANE CORPORATION, Chicago, Ill. Filed Nov. 17, 1949.

FREE-ALL

FOR REMOVABLE LININGS FOR MEN'S, YOUNG MEN'S, WOMEN'S, MISSES', AND JUNIORS' OVERCOATS.
Claims use since Sept. 15, 1949.

Ser. No. 589,127. TONAK, TOVARNY NA KLOBOUKY, NARODNI PODNIK, Novy Jicin, Czechoslovakia. Filed Dec. 9, 1949.

The word "Extra" is disclaimed. Applicant claims ownership of Czechoslovakian Registration No. 11,128, dated Aug 31, 1949.
FOR HATS AND HAT BODIES MADE OF HAIR, WOOL, FELT, OR VELOUR FELT.

Ser. No. 591,212. ZEF INNOVATIONS, INC., New York, N. Y. Filed Jan. 20, 1950.

ZEF

FOR BRASSIÈRES.
Claims use since Jan. 10, 1950.

Ser. No. 591,617. FULTON SHIRT CO. INC., New York, N. Y. Filed Jan. 28, 1950. (Sec. 2f.)

FULTON

FOR SHIRTS FOR MEN, WOMEN, AND CHILDREN.
Claims use since November 1919.

Ser. No. 592,158. THE OHIO TEXTILE PRODUCTS CO., Mansfield, Ohio. Filed Feb. 8, 1950. (Sec. 2f.)

MANSFIELD

Applicant claims ownership of Registration No. 242,064.
FOR SUSPENDERS, GARTERS, ARM BANDS, MEN'S, BOYS', AND LADIES' BELTS, AND NECKTIES.
Claims use since 1927.

Ser. No. 595,749. W. B. FOUNDATIONS, INCORPORATED, Newark, N. J. Filed Apr. 14, 1950. (Sec. 2f.)

Stylish Stout

Applicant claims ownership of Registration No. 141,817.
FOR CORSETS, BRASSIÈRES, CORSET-COVERS, AND GIRDLES.
Claims use since 1917.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 583,887. WILLIAM PRYM, INC., Dayville, Conn. Filed Aug. 23, 1949.

Prims

Applicant claims ownership of Registration No. 503,170.
FOR BUTTON AND BUCKLE PARTS TO BE COVERED WITH SUITABLE MATERIAL WITHOUT THE USE OF TOOLS.
Claims use since Aug. 19, 1949.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 528,392. WULLSCHLEGER & CO., New York, N. Y. Filed July 11, 1947.

PASTORALE

FOR FABRICS IN THE PIECE, CONSISTING OF SILK, COTTON, WOOL, NYLON, RAYON, GLASS, OR PROTEIN FIBRES, OR MIXTURES THEREOF.
Claims use since June 5, 1947.

Ser. No. 542,298. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Nov. 25, 1947.

E&W GILBRAE FABRICS

The word "Fabrics" is disclaimed. Applicant claims ownership of Registrations Nos. 140,569 and 312,622.
FOR TEXTILE PIECE GOODS COMPOSED OF COTTON, SYNTHETIC FIBERS, AND MIXTURES THEREOF.
Claims use since Feb. 10, 1930.

Ser. No. 548,138. CHICAGO TOWEL COMPANY, Chicago, Ill. Filed Jan. 28, 1948.

CLEAN-O-MATIC

The word "Clean" is disclaimed.
FOR CLOTH TOWELS.
Claims use since January 1939.

Ser. No. 561,798. BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed July 21, 1948.

Applicant claims ownership of Registrations Nos. 62,895, 99,536, 99,538, 159,658, and 316,675.
FOR BLANKETS MADE WHOLLY OF COTTON, OF COTTON AND RAYON, OR OF COTTON, RAYON, AND WOOL—NAMELY, PLAID, INDIAN, CAMPING, GOVERNMENT, ARMY, NAVY, CRIB, WRAPPER, BED, AND BATH ROBE BLANKETS; BED COMFORTABLES, INCLUDING JACQUARD, QUILTS, TRAVELING AND STEAMER RUGS, BATH ROBE FLANNEL, BLANKET FABRICS, NAPPED FABRICS INCLUDING BLANKET FABRICS, CHINCHILLA FABRICS, CORD CLOTH, PIECE GOODS, RUGS AND TEXTILE BATH-MATS, ALL MADE WHOLLY OF COTTON, OF COTTON AND RAYON, OR OF COTTON, RAYON, AND WOOL.
Claims use since 1940.

Ser. No. 581,172. CAMEO CURTAINS INC., New York, N. Y. Filed June 28, 1949.

CAMEO

FOR WINDOW CURTAINS COMPOSED OF MARQUISETTE FABRIC AND OF VOILE FABRIC.
Claims use since 1928.

Ser. No. 598,006. DAN RIVER MILLS, INCORPORATED, Danville, Va. Filed May 24, 1950. (Sec. 2f.)

CROSSCORD

Applicant claims ownership of Registration No. 410,961.
FOR COTTON PIECE GOODS.
Claims use since Feb. 2, 1943.

Ser. No. 598,233. BOURNE MILLS, Fall River, Mass. Filed May 27, 1950.

The portrait is that of Jonathon Bourne, deceased 1889.
FOR SATEEN.
Claims use since July 1, 1946.

CLASS 43

THREAD AND YARN

Ser. No. 595,073. HOOKER & SANDERS, INCORPORATED, New York, N. Y. Filed Apr. 1, 1950.

SANDY HOOK

FOR YARNS COMPOSED IN WHOLE OR IN PART OF COTTON AND RAYON.
Claims use since May 21, 1948.

Ser. No. 595,604. HOOKER & SANDERS, INCORPORATED, New York, N. Y. Filed Apr. 12, 1950.

"HOSANNE"

FOR YARNS COMPOSED IN WHOLE OR IN PART OF COTTON AND RAYON.
Claims use since 1936.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 560,500. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed June 30, 1948.

LILT

Applicant claims ownership of Registrations Nos. 421,370 and 267,841.
FOR HOME PERMANENT WAVING KIT CONSISTING OF CURLERS, COLD WAVE WAVING LOTION, AND NEUTRALIZER POWDER USED IN PERMANENT WAVING OF THE HAIR.
Claims use since Feb. 25, 1948.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 573,027. A. J. CANFIELD CO., Chicago, Ill. Filed Jan. 29, 1949. (Sec. 2f.)

Canfield's

Applicant claims ownership of Registration No. 293,222.
FOR SPARKLING WATER, GINGERALE, ROOT BEER, AND CARBONATED MALTLESS NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS FOR USE AS MIXERS; GRAPEFRUIT ADE, LIME RICKEY.
Claims use since February 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 512,001. KIENTZEL NOODLE CO., INC., St. Louis, Mo. Original filed, act of 1905, Nov. 4, 1946; amended to application under act of 1946, Principal Register, Jan. 23, 1950. (Sec. 2f.)

Fluffy Pop

FOR POPPED (AND SEASONED) POP CORN.
Claims use since Dec. 21, 1944.

Ser. No. 514,581. A/S TRONDHJEM CANNING AND EXPORT CO., Trondheim, Norway. Original filed, act of 1905, Dec. 20, 1946; amended to application under act of 1946, Principal Register, Mar. 8, 1950.

Applicant claims ownership of Norwegian Registration No. 13,462, dated May 7, 1926, and United States Registration No. 154,812.
FOR SARDINES, KIPPERS, FISH-BALLS, COD-ROE, FISH CAKES, AND MEAT BALLS, ALL HERMETICALLY PRESERVED FOOD.

Ser. No. 515,861. CENTRAL CITY PICKLE CO., Peoria, Ill. Original filed, act of 1905, Jan. 17, 1947; amended to application under act of 1946, Principal Register, Sept. 19, 1950.

Vintage

FOR VINEGAR.
Claims use since 1937.

Ser. No. 539,757. THE RATH PACKING COMPANY, Waterloo, Iowa. Filed Oct. 31, 1947.

Marvelard

The word "Lard" is disclaimed.
FOR LARD.
Claims use since Oct. 11, 1947.

Ser. No. 547,881. PAUL WALTER, trading as Caramel Crisp Shop and Walter Candy Co., Cedar Rapids, Iowa. Filed Jan. 23, 1948.

Chocashew

FOR NUT CANDIES.
Claims use since Dec. 15, 1947.

Ser. No. 550,771. ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 28, 1948.

GOLD BAND

FOR SAUSAGE MADE FROM BEEF AND PORK.
Claims use since 1917.

Ser. No. 550,772. ARMOUR AND COMPANY, Chicago, Ill.

Ser. No. 572,269. PORT Y-NE-ME PACKING COMPANY, Port

Ser. No. 588,844. DAD'S COOKIE COMPANY, Los Angeles

Ser. No. 594,542. HANOVER CANNING COMPANY, Hanover

Ser. No. 550,772. ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 28, 1948.

Jack Frost

FOR PORK SAUSAGE.
Claims use since 1913.

Ser. No. 552,605. PINE GROVE CANNING COMPANY, INC., St. Martinville, La. Filed Mar. 20, 1948.

PINE GROVE

FOR CANNED PRODUCTS—NAMELY, SWEET POTATOES, MEXICAN STYLE BEANS, BUTTER BEANS, RED KIDNEY BEANS, BABY LIMA BEANS, SHRIMP, CORN, OKRA AND TOMATOES, CUT OKRA WITH WHOLE AND CUT TOMATOES, SPINACH, BLACK-EYED PEAS, NEW POTATOES, SWEET CORN, SLICED BEETS, BLACKBERRIES, FIG PRESERVES AND PURE CANE SYRUP; BOTTLED WHOLE PEPPER SAUCE, LOUISIANA HOT SAUCE, AND SWEET ITALIAN TYPE PEPPERS.
Claims use since July 31, 1913.

Ser. No. 553,489. GUM PRODUCTS, INC., East Boston, Mass. Filed June 4, 1948.

J.T.'s
JAW TEASERS

FOR CHEWING GUM.
Claims use since 1942.

Ser. No. 562,772. FLORIDA CITRUS EXCHANGE, Tampa, Fla. Filed Aug. 4, 1948. (Sec. 2f.)

Mor- juce

Applicant claims ownership of Registration No. 267,521.
FOR FRESH CITRUS FRUITS.
Claims use since Mar. 15, 1928.

Ser. No. 566,344. PERK FOODS CO., Chicago, Ill. Filed Oct. 6, 1948.

PERK
RAN-CHER

The word "Ran-cher" is disclaimed. Applicant claims ownership of Registration No. 354,755.
FOR ANIMAL FEEDS CONTAINING PRINCIPALLY HORSE MEAT AND HORSE LIVER, FOR FEEDING FOXES AND MINKS.
Claims use since Apr. 1, 1948.

Ser. No. 572,269. PORT Y-NE-ME PACKING COMPANY, Port Hueneme, Calif. Filed Jan. 15, 1949.

Talk o' the Sea

Applicant disclaims the descriptive words "O' the Sea."
FOR CANNED FISH.
Claims use since Oct. 8, 1948.

Ser. No. 580,649. RICHARD WILLIAM DECKMANN, Pittsburgh, Pa. Filed June 17, 1949.

VOLA

FOR CONCENTRATED FLAVORING EXTRACT FOR FLAVORING FOODS.
Claims use since Oct. 27, 1947.

Ser. No. 585,634. C. V. CROALL CORPORATION, Santa Rosa, Calif. Filed Oct. 1, 1949.

FREEM

FOR MIX CONTAINING FRUIT AND FRUIT JUICE AS THE PRINCIPAL INGREDIENTS FOR MAKING FROZEN DESSERTS OF THE ICE CREAM AND SHERBET TYPE.
Claims use since June 21, 1949.

Ser. No. 588,037. MCCORMICK & COMPANY, INC., Baltimore, Md. Filed Nov. 18, 1949.

Banquet

Applicant claims ownership of Registrations Nos. 46,038, 59,755, and others.
FOR WHOLE SPICES, GROUND SPICES, SEEDS FOR FOOD FLAVORING PURPOSES, HERBS AND LEAVES FOR FOOD FLAVORING PURPOSES, MUSTARDS IN BOTH WET AND DRY STATE; RICE SOUP MIX, CHICKEN FLAVORED; FOOD AND FOOD BEVERAGE FLAVORING EXTRACTS, NOODLE SOUP MIX, MAYONNAISE DRESSING, AND TEA IN BAGS.
Claims use since Sept. 29, 1947.

Ser. No. 588,482. DELAWARE MUSHROOM COOPERATIVE ASSOCIATION, Wilmington, Del. Filed Nov. 29, 1949.

FIRST STATE

FOR CANNED MUSHROOMS.
Claims use since January 1939.

Ser. No. 588,844. DAD'S COOKIE COMPANY, Los Angeles, Calif. Filed Dec. 5, 1949.

DAD'S

The representation of the goods is disclaimed. The drawing is lined for shading purposes. The picture shown on the drawing is fanciful.
FOR COOKIES.
Claims use since Mar. 1, 1921.

Ser. No. 588,968. THE J. F. RENZ & SONS COMPANY, Lima, Ohio. Filed Dec. 7, 1949. (Sec. 2f as to "Renz's.")

The word "Bread" is disclaimed. Applicant claims ownership of Registration No. 319,787.
FOR BREAD.
Claims use since June 1, 1948, as to the mark shown; and since 1920 as to "Renz's."

Ser. No. 589,335. MIKE ROSE, Nashville, Tenn. Filed Dec. 14, 1949.

The words "Roquefort Cheese Dressing" are disclaimed.
FOR ROQUEFORT CHEESE DRESSING.
Claims use since Nov. 1, 1949.

Ser. No. 591,951. PLANT CITY VEGETABLE COOPERATIVE, Plant City, Fla. Filed Feb. 3, 1950.

4 STRIPE

FOR FRESH VEGETABLES.
Claims use since Apr. 10, 1949.

Ser. No. 594,542. HANOVER CANNING COMPANY, Hanover, Pa. Filed Mar. 24, 1950.

The drawing is lined to indicate the color green. The representation of the elf is a fanciful figure. The drawing is also stippled for shading purposes.
FOR CANNED VEGETABLES.
Claims use since July 1948.

Ser. No. 594,570. OLD BLACK JOE CO., Hohenwald, Tenn. Filed Mar. 24, 1950.

OLD BLACK JOE

FOR CANNED VEGETABLES.
Claims use since January 1934.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 580,371. A. P. MCDOWALL & CO. (DISTILLERS) LIMITED, Glasgow, Scotland. Filed June 13, 1949.

OLD SEA DOG

The word "Old" is disclaimed. Applicant claims ownership of British Registration No. 440,481, dated Sept. 6, 1923.
FOR RUM.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 570,943. CALLOT SOEURS OF PARIS, INC., New York, N. Y. Filed Dec. 22, 1948.

DIEU DU JOUR

FOR PERFUMES.
Claims use since Oct. 15, 1947.

Ser. No. 550,772. ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 28, 1948.

Jack Frost

FOR PORK SAUSAGE.
Claims use since 1913.

Ser. No. 552,605. PINE GROVE CANNING COMPANY, INC., St. Martinville, La. Filed Mar. 20, 1948.

PINE GROVE

FOR CANNED PRODUCTS—NAMELY, SWEET POTATOES, MEXICAN STYLE BEANS, BUTTER BEANS, RED KIDNEY BEANS, BABY LIMA BEANS, SHRIMP, CORN, OKRA AND TOMATOES, CUT OKRA WITH WHOLE AND CUT TOMATOES, SPINACH, BLACK-EYED PEAS, NEW POTATOES, SWEET CORN, SLICED BEETS, BLACKBERRIES, FIG PRESERVES AND PURE CANE SYRUP; BOTTLED WHOLE PEPPER SAUCE, LOUISIANA HOT SAUCE, AND SWEET ITALIAN TYPE PEPPERS.
Claims use since July 31, 1913.

Ser. No. 558,489. GUM PRODUCTS, INC., East Boston, Mass. Filed June 4, 1948.

J.T.'s
JAW TEASERS

FOR CHEWING GUM.
Claims use since 1942.

Ser. No. 562,772. FLORIDA CITRUS EXCHANGE, Tampa, Fla. Filed Aug. 4, 1948. (Sec. 2f.)

Mor- juce

Applicant claims ownership of Registration No. 267,521.
FOR FRESH CITRUS FRUITS.
Claims use since Mar. 15, 1928.

Ser. No. 566,544. PERK FOODS CO., Chicago, Ill. Filed Oct. 6, 1948.

PERK
RAN-CHER

The word "Ran-cher" is disclaimed. Applicant claims ownership of Registration No. 354,755.
FOR ANIMAL FEEDS CONTAINING PRINCIPALLY HORSE MEAT AND HORSE LIVER, FOR FEEDING FOXES AND MINKS.
Claims use since Apr. 1, 1948.

Ser. No. 572,269. PORT Y-NE-ME PACKING COMPANY, Port Hueneme, Calif. Filed Jan. 15, 1949.

Talk o' the Sea

Applicant disclaims the descriptive words "O' the Sea."
FOR CANNED FISH.
Claims use since Oct. 8, 1948.

Ser. No. 580,649. RICHARD WILLIAM DECKMANN, Pittsburgh, Pa. Filed June 17, 1949.

VOLA

FOR CONCENTRATED FLAVORING EXTRACT FOR FLAVORING FOODS.
Claims use since Oct. 27, 1947.

Ser. No. 585,634. C. V. CROALL CORPORATION, Santa Rosa, Calif. Filed Oct. 1, 1949.

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BET TYPE.
Claims use since June 21, 1949.

Ser. No. 588,037. MCCORMICK & COMPANY, INC., H
more, Md. Filed Nov. 18, 1949.

Banquet

Applicant claims ownership of Registrations
46,038, 59,755, and others.
FOR WHOLE SPICES, GROUND SPICES, SEEDS
FOOD FLAVORING PURPOSES, HERBS AND LEA
FOR FOOD FLAVORING PURPOSES, MUSTARD
BOTH WET AND DRY STATE; RICE SOUP
CHICKEN FLAVORED; FOOD AND FOOD BEVER
FLAVORING EXTRACTS, NOODLE SOUP MIX,
ONNAISE DRESSING, AND TEA IN BAGS.
Claims use since Sept. 29, 1947.

Ser. No. 588,482. DELAWARE MUSHROOM COOPERATIVE ASSOCIATION, Wilmington, Del. Filed Nov. 29, 1949.

FIRST STATE

FOR CANNED MUSHROOMS.
Claims use since January 1939.

Ser. No. 588,844. DAD'S COOKIE COMPANY, Los Angeles, Calif. Filed Dec. 5, 1949.

DAD'S

The representation of the goods is disclaimed. The drawing is lined for shading purposes. The picture shown on the drawing is fanciful.
FOR COOKIES.
Claims use since Mar. 1, 1921.

Ser. No. 588,968. THE J. F. RENZ & SONS COMPANY, Lima, Ohio. Filed Dec. 7, 1949. (Sec. 2f as to "Renz's.")

Ser. No. 594,542. HANOVER CANNING COMPANY, Hanover, Pa. Filed Mar. 24, 1950.

The drawing is lined to indicate the color green. The representation of the elf is a fanciful figure. The drawing is also stippled for shading purposes.
FOR CANNED VEGETABLES.
Claims use since July 1948.

Ser. No. 594,570. OLD BLACK JOE CO., Hohenwald, Tenn. Filed Mar. 24, 1950.

OLD BLACK JOE

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Ser. No. 591,951. PLANT CITY VEGETABLE COOPERATIVE, Plant City, Fla. Filed Feb. 3, 1950.

4 STRIPE

FOR FRESH VEGETABLES.
Claims use since Apr. 10, 1949.

DIEU DU JOUR

FOR PERFUMES.
Claims use since Oct. 15, 1947.

Ser. No. 550,772. ARMOUR AND COMPANY, Chicago, Ill. Filed Feb. 28, 1948.

Jack Frost

FOR PORK SAUSAGE.
Claims use since 1913.

Ser. No. 552,605. PINE GROVE CANNING COMPANY, INC., St. Martinville, La. Filed Mar. 20, 1948.

PINE GROVE

FOR CANNED PRODUCTS—NAMELY, SWEET POTATOES, MEXICAN STYLE BEANS, BUTTER BEANS, RED KIDNEY BEANS, BABY LIMA BEANS, SHRIMP, CORN, OKRA AND TOMATOES, CUT OKRA WITH WHOLE AND CUT TOMATOES, SPINACH, BLACK-EYED PEAS, NEW POTATOES, SWEET CORN, SLICED BEETS, BLACKBERRIES, FIG PRESERVES AND PURE CANE SYRUP; BOTTLED WHOLE PEPPER SAUCE, LOUISIANA HOT SAUCE, AND SWEET ITALIAN TYPE PEPPERS.
Claims use since July 31, 1913.

Ser. No. 553,489. GUM PRODUCTS, INC., East Boston, Mass. Filed June 4, 1948.

J.T.'s JAW TEASERS

FOR CHEWING GUM.
Claims use since 1942.

Ser. No. 562,772. FLORIDA CITRUS EXCHANGE, Tampa, Fla. Filed Aug. 4, 1948. (Sec. 2f.)

Mor- juce

Applicant claims ownership of Registration No. 267,521.
FOR FRESH CITRUS FRUITS.
Claims use since Mar. 15, 1928.

Ser. No. 566,344. PERK FOODS CO., Chicago, Ill. Filed Oct. 6, 1948.

PERK RAN-CHER

The word "Ran-cher" is disclaimed. Applicant claims ownership of Registration No. 354,755.
FOR ANIMAL FEEDS CONTAINING PRINCIPALLY HORSE MEAT AND HORSE LIVER, FOR FEEDING FOXES AND MINKS.
Claims use since Apr. 1, 1948.

Ser. No. 572,269. PORT Y-NE-ME PACKING COMPANY, Port Hueneme, Calif. Filed Jan. 15, 1949.

Talk o' the Sea

Applicant disclaims the descriptive words "O' the Sea."
FOR CANNED FISH.
Claims use since Oct. 8, 1948.

Ser. No. 580,649. RICHARD WILLIAM DECKMANN, Pittsburgh, Pa. Filed June 17, 1949.

VOLA

FOR CONCENTRATED FLAVORING EXTRACT FOR FLAVORING FOODS.
Claims use since Oct. 27, 1947.

Ser. No. 585,634. C.
Calif. Filed Oct. 1

F

FOR MIX CONTA
AS THE PRINCIP
FROZEN DESSERT
BET TYPE.
Claims use since J

Ser. No. 588,037.
more, Md. Filed N

3

Applicant claims
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FOR WHOLE SP
FOOD FLAVORING
FOR FOOD FLAV
BOTH WET AND DRY STATE; RICE SOUP MIX, CHICKEN FLAVORED; FOOD AND FOOD BEVERAGE FLAVORING EXTRACTS, NOODLE SOUP MIX, MAYONNAISE DRESSING, AND TEA IN BAGS.
Claims use since Sept. 29, 1947.

Ser. No. 588,482. DELAWARE MUSHROOM COOPERATIVE ASSOCIATION, Wilmington, Del. Filed Nov. 29, 1949.

FIRST STATE

FOR CANNED MUSHROOMS.
Claims use since January 1939.

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Ser. No. 588,844. DAD'S COOKIE COMPANY, Los Angeles, Calif. Filed Dec. 5, 1949.

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FOR COOKIES.
Claims use since Mar. 1, 1921.

Ser. No. 588,968. THE J. F. RENZ & SONS COMPANY, Lima, Ohio. Filed Dec. 7, 1949. (Sec. 2f as to "Renz's.")

Renz's

FOR ROQUEFORT CHEESE DRESSING.
Claims use since Nov. 1, 1949.

Ser. No. 591,951. PLANT CITY VEGETABLE COOPERATIVE, Plant City, Fla. Filed Feb. 3, 1950.

4 STRIPE

FOR FRESH VEGETABLES.
Claims use since Apr. 10, 1949.

Ser. No. 594,542. HANOVER CANNING COMPANY, Hanover, Pa. Filed Mar. 24, 1950.

The drawing is lined to indicate the color green. The representation of the elf is a fanciful figure. The drawing is also stippled for shading purposes.
FOR CANNED VEGETABLES.
Claims use since July 1948.

Ser. No. 594,570. OLD BLACK JOE CO., Hohenwald, Tenn. Filed Mar. 24, 1950.

ACK JOE

BLES.
1934.

SS 49

OHOLIC LIQUORS

CDOWALL & Co. (DISTILLERS)
ind. Filed June 13, 1949.

EA DOG

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tion No. 440,481, dated Sept.

ASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 570,943. CALLOT SOEURS OF PARIS, INC., New York, N. Y. Filed Dec. 22, 1948.

DIEU DU JOUR

FOR PERFUMES.
Claims use since Oct. 15, 1947.

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SEVERAL IMPORTANT CHANGES in the Federal Income Tax Law were recently enacted in the Revenue Act of 1950. These changes, which affect every citizen who files a tax return, have been incorporated in the text of the official 1950 edition of "Your Federal Income Tax." In addition to the information on the latest tax law, this booklet covers, in a series of short articles, all questions which may come up concerning your tax return, other important laws, rulings by the Bureau of Internal Revenue, and court decisions. It also contains chapters concerning installment sales and the important appeals procedure. The detailed index will enable you to find the particular information you want quickly and accurately. Facsimiles of the various tax forms are also included.

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ONE QUARTER MAY SAVE YOU MANY DOLLARS

Ser. No. 577,003. SOCIETE LANCÔME, S. A., Paris, France. Filed Mar. 11, 1949. (Sec. 2f.)

LANCÔME
BEAUTE

The word "Beaute" is disclaimed. Applicant claims ownership of French Registration No. 341,052, dated July 29, 1942, and United States Registrations Nos. 513,660 and 425,129.

FOR FACE POWDER, LIPSTICK, ROUGE, SOFTENING AND CLEANSING CREAMS, CREAM PASTES FOR IMPARTING COLOR TO THE SKIN, MAKE-UP FOR THE EYES, AND HAIR LACQUER.

Claims use since July 29, 1942, in France; and since July 29, 1942, in commerce among foreign nations and the United States.

Ser. No. 577,005. SOCIETE LANCÔME, S. A., Paris, France. Filed Mar. 11, 1949. (Sec. 2f.)

LANCÔME
PARFUMS

The word "Parfums" is disclaimed. Applicant claims ownership of French Registration No. 341,051 and United States Registrations Nos. 425,129 and 513,660.

FOR FACE POWDER, LIPSTICK, ROUGE, SOFTENING AND CLEANSING CREAMS, CREAM PASTES FOR IMPARTING COLOR TO THE SKIN, MAKE-UP FOR THE EYES AND HAIR LACQUER.

Claims use since July 29, 1942, in France; and since July 29, 1942, in commerce among foreign nations and the United States.

Ser. No. 591,020. CONSOLIDATED COSMETICS, Chicago, Ill. Filed Jan. 18, 1950.

RANGOON

FOR LIPSTICK, FACE POWDER, SOLID COLOGNE AND BRILLIANTINE.

Claims use since Jan. 13, 1940.

SERVICE MARKS

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 539,523. INTERSTATE FINANCE CORPORATION, doing business under the name Interstate Greene & Greene Agency, Evansville, Ind. Filed Oct. 30, 1947. (Sec. 2f.)

GREENE & GREENE

FOR INSURANCE AGENCY SERVICES IN FIRE AND CASUALTY INSURANCE AND FIDELITY AND SURETY BONDS.

Claims use since 1876.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 573,204. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 2, 1949.

COLDSPOT

FOR REFRIGERATOR AND FREEZER REPAIRING SERVICES.

Applicant claims ownership of Registrations Nos. 274,445, 333,372, and 334,802.

Claims use since March 1, 1930.

Ser. No. 573,207. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 2, 1949.

SILVERTONE

Applicant claims ownership of Registrations Nos. 147,814, 167,620, 170,708, 172,002, 220,659, 383,358, and 401,375.

FOR RADIO AND PHONOGRAPH REPAIRING SERVICES.

Claims use since May 1, 1923.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 536,075. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Sept. 29, 1947. (Sec. 2f.)

SOAP BOX DERBY

FOR DEVELOPING AND SUPERVISING PROGRAMS OF CONSTRUCTION OF JUVENILE RACING CARS AND CONDUCTING AMATEUR COMPETITIVE RACING EVENTS FOR THE PURPOSE OF DEVELOPING SPORTSMANSHIP, CHARACTER, CRAFTSMANSHIP, AND INGENUITY IN BOYS.

Claims use since Aug. 19, 1933.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,353. INTERNAL COMBUSTION ENGINES AND PARTS THEREFOR FOR AIRCRAFT, ETC. CONTINENTAL AVIATION AND ENGINEERING CORPORATION, Detroit and Muskegon, Mich.
Filed Apr. 1, 1946, Serial No. 499,397. Published Sept. 19, 1950. Class 23.

444,354. PLASTIC FILM, SOLD AS PIECE GOODS, FOR MAKING INTO SHOWER CURTAINS, RAINCOATS, AND THE LIKE. PRESTO PLASTIC PRODUCTS CO., INC., New York, N. Y.
Filed Apr. 23, 1946, Serial No. 500,770. Published Sept. 5, 1950. Class 42.

444,355. PLASTIC FILM, SOLD AS PIECE GOODS, FOR MAKING INTO SHOWER CURTAINS, RAINCOATS, AND THE LIKE. PRESTO PLASTIC PRODUCTS CO., INC., New York, N. Y.
Filed Apr. 23, 1946, Serial No. 500,771. Published Sept. 5, 1950. Class 42.

444,356. CIGARS. MAX SCHWARZ MANUFACTURER LA PRIMADORA HAVANA CIGARS, LTD., New York, N. Y.
Filed Oct. 5, 1946, Serial No. 510,362. Published Sept. 12, 1950. Class 17.

444,357. SUGAR, CORN, CANE, AND MAPLE BASE SYRUP FOR TABLE AND COOKING PURPOSES. THE BURDEN COMPANY, Cleveland, Ohio.
Filed Dec. 6, 1946, Serial No. 513,803. Published July 25, 1950. Class 46.

444,358. FURNITURE FORMED PARTLY OR WHOLLY OF THERMOSETTING OR THERMOPLASTIC MATERIAL—NAMELY, BOOKCASES, UNIT BUILT IN; BOOK CABINETS, ETC. HOLOPLAST LIMITED, New Hythe, near Maidstone, Kent, England.
Filed May 19, 1947, Serial No. 522,661. Published Sept. 19, 1950. Class 32.

444,359. MEN'S OUTER SHIRTS. FREDERICK LOESER & CO., INC., Brooklyn, N. Y.
Filed June 17, 1947, Serial No. 524,318. Published June 8, 1948. Class 39.

444,360. CLEANING AND POLISHING COMPOSITION. THE CELLOWAX COMPANY, also trading under the name of The Cellowax Wax Co., Baltimore, Md.
Filed June 27, 1947, Serial No. 524,950. Published Sept. 12, 1950. Class 4.

ACT OF 1946, PRINCIPAL REGISTER

534,520. AUTOMOTIVE ACCESSORIES AND PARTS—NAMELY, CARBURETORS, FUEL FILTERS, FUEL PUMPS, AND PARTS THEREOF. CARTER CARBURETOR CORPORATION, St. Louis, Mo.
Original filed, act of 1905, Nov. 15, 1945; amended to application under act of 1946, Principal Register, Apr. 14, 1950, Serial No. 491,626. Published Sept. 12, 1950. Class 23.

534,521. SHEETS, PILLOWCASES, CRIB COVERS, BABY BLANKETS, TABLECLOTHS, AND NAPKINS. GEORG JENSEN INC., New York, N. Y.
Original filed, act of 1905, June 29, 1946; amended to application under act of 1946, Principal Register, Jan. 13, 1948, Serial No. 504,848. Published Aug. 29, 1950. Class 42.

534,522. MEN'S UNDERWEAR. LEWIS KNITTING COMPANY, Janesville, Wis.
Original filed, act of 1905, Nov. 12, 1946; amended to application under act of 1946, Principal Register, Aug. 2, 1948, Serial No. 512,430. Published Sept. 5, 1950. Class 39.

534,523. MEN'S UNDERWEAR. LEWIS KNITTING COMPANY, Janesville, Wis.
Original filed, act of 1905, Nov. 12, 1946; amended to application under act of 1946, Principal Register, Aug. 2, 1948, Serial No. 512,431. Published Sept. 5, 1950. Class 39.

534,524. HATS AND CAPS FOR MEN AND BOYS. PORTIS STYLE INDUSTRIES, INC., Chicago, Ill.
Original filed, act of 1905, Dec. 24, 1946; amended to application under act of 1946, Principal Register, May 27, 1948, Serial No. 514,775. Published Dec. 7, 1948. Class 39.

534,525. ELECTRIC FLASHLIGHT BATTERIES AND FLASHLIGHTS. FULTON MANUFACTURING CORPORATION, Wauseon, Ohio.
Original filed, act of 1905, Dec. 27, 1946; amended to application under act of 1946, Principal Register, Oct. 7, 1947, Serial No. 514,895. Published Sept. 5, 1950. Class 21.

534,526. METAL FILING CABINETS, METAL STORAGE CASES, METAL TABULATING CARD FILES, ETC. METAL OFFICE FURNITURE CO., Grand Rapids, Mich.
Original filed, act of 1905, Jan. 13, 1947; amended to application under act of 1946, Principal Register, Dec. 13, 1947, Serial No. 515,668. Published June 28, 1949. Class 32.

534,527. MOTOR BOATS, CABIN CRUISERS, OPEN CRUISERS, DISPLACEMENT BOATS, AND HYDROPLANE BOATS. GARFIELD A. WOOD, doing business as Gar Wood, Miami Beach, Fla., assignee of Gar Wood Industries, Inc.
Original filed, act of 1905, Feb. 21, 1947; amended to application under act of 1946, Principal Register, June 23, 1948, Serial No. 517,904. Published Sept. 5, 1950. Class 19.

534,528. BEAUTY SHOP CHAIRS EMBODYING A HYDRAULIC DEVICE FOR RAISING AND LOWERING THE SEATS THEREOF. ROYAL METAL MANUFACTURING COMPANY, Chicago, Ill.
Original filed, act of 1905, Apr. 19, 1947; amended to application under act of 1946, Principal Register, Oct. 30, 1948, Serial No. 521,030. Published Aug. 29, 1950. Class 32.

534,529. EXTENSION TABLES. THE BRANDT CABINET WORKS, INC., Hagerstown, Md.
Original filed, act of 1905, May 22, 1947; amended to application under act of 1946, Principal Register, Dec. 6, 1947, Serial No. 522,834. Published Aug. 15, 1950. Class 32.

534,530. MACHINISTS' PARALLEL CLAMPS, HACK SAW FRAMES, NAIL SETS, ETC. UNION TOOL COMPANY, Orange, Mass.
Original filed, act of 1905, May 29, 1947; amended to application under act of 1946, Principal Register, Sept. 17, 1947, Serial No. 523,297. Published Sept. 19, 1950. Class 23.

534,531. PICKLES, CAVIAR. JUILLARD FANCY FOODS Co., San Francisco, Calif., by change of name from Martens-Read Corporation, doing business as Juillard Fancy Foods Co.
Original filed, act of 1905, June 13, 1947; amended to application under act of 1946, Principal Register, June 3, 1948, Serial No. 524,142. Published July 11, 1950. Class 46.

534,532. CONSOLIDATED CERTIFICATE. DUKE MANUFACTURING CO., St. Louis, Mo.
CEREAL COOKERS, COFFEE URNS MADE OF METAL, BAINS-MARIE, URN STANDS, AND SINKS. Filed July 19, 1948, Serial No. 561,660. Published Aug. 15, 1950. Class 13.
ELECTRICALLY OPERATED APPARATUS—NAMELY, CEREAL COOKERS, PORTABLE HOT-WATER FOOD WARMERS, PORTABLE HOT-WATER SERVICE-PLATE WARMERS, PORTABLE HOT-WATER ROLL WARMERS, COFFEE URNS, COMPARTMENT STEAMERS AND BAINS-MARIE. Filed July 5, 1947, Serial No. 527,169. Published Mar. 7, 1950. Class 21.
PASTRY COUNTERS, BAKERS' TABLES, SETUP TABLES, ETC. Filed July 5, 1947, Serial No. 527,170. Published Apr. 20, 1948. Class 32.
STEAM TABLES. Filed June 26, 1948, Serial No. 560,258. Published Mar. 7, 1950. Class 34.

534,533. (a) SCREW DRIVERS OF THE HAND OPERATED TYPE; (b) NUT DRIVERS WHICH FIT OVER A NUT AND ARE OPERATED BY HAND AND (c) CRIMPING TOOLS OF THE HAND OPERATED TYPE. LYNN PRODUCTS CO., Chicago, Ill.
Filed July 9, 1947, Serial No. 528,212. Published Aug. 29, 1950. Class 23.

534,534. UPHOLSTERED CHAIRS FOR TRANSPORTATION SEATING FOR RAILROAD AND BUS SERVICE. HEYWOOD-WAKEFIELD COMPANY, Gardner, Mass.
Filed July 10, 1947, Serial No. 528,282. Published Aug. 29, 1950. Class 19.

534,535. RUBBER SOLED CANVAS SHOES AND OXFORDS AND INSOLES THEREFOR. MISHAWAKA RUBBER AND WOOLEN MANUFACTURING COMPANY, Mishawaka, Ind.
Filed July 26, 1947, Serial No. 529,671. Published Aug. 22, 1950. Class 39.

534,536. AIR COMPRESSORS AND PARTS THEREOF; AUTOMOTIVE VEHICLE LIFTS AND RECIPROCATING JACKS TO IMPROVE THE SERVICING AND LUBRICATING OF VEHICLES, ETC. THE UNITED STATES AIR COMPRESSOR COMPANY, Cleveland, Ohio.
Filed July 26, 1947, Serial No. 529,729. Published Sept. 19, 1950. Class 23.

534,537. FRESH PEARS. PLACERVILLE FRUIT GROWERS ASSOCIATION, Placerville, Calif.
Filed Aug. 15, 1947, Serial No. 531,514. Published July 25, 1950. Class 46.

534,538. WAX AND WAX PRODUCTS IN LIQUID FORM FOR COATING, FINISHING, POLISHING FLOORS, FURNITURE, HOUSEHOLD AND AUTOMOTIVE ARTICLES, RUBBER GOODS, AND OTHER SURFACES, SUBSTANCES, AND ARTICLES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed Aug. 18, 1947, Serial No. 531,679. Published Sept. 12, 1950. Class 4.

534,539. INTERIOR AND EXTERIOR PAINTS FOR ALL TYPES OF SURFACES. PATEK BROTHERS, INC., Milwaukee, Wis.
Filed Aug. 29, 1947, Serial No. 532,872. Published Sept. 12, 1950. Class 16.

534,540. KNITTED RUGS. QUAKER MAID MILLS, INC., Philadelphia, Pa.
Filed Sept. 5, 1947, Serial No. 533,615. Published Aug. 29, 1950. Class 42.

534,541. ELECTRIC MOTOR AND INTERNAL COMBUSTION ENGINE OPERATED SWEEPING, SANDING, SCRUBBING, SCOURING, BURNISHING, ABRADING, POLISHING, AND CLEANING MACHINES, AND PARTS THEREOF, ETC. G. H. TENNANT COMPANY, Minneapolis, Minn.
Filed Sept. 15, 1947, Serial No. 534,567. Published Sept. 5, 1950. Class 23.

534,542. MATTRESSES. HOME OUTFITTERS, INC., Chicago, Ill.
Filed Oct. 6, 1947, Serial No. 536,899. Published Aug. 29, 1950. Class 32.

534,543. CANDY. IMPERIAL CANDY COMPANY, Seattle, Wash.
Filed Oct. 13, 1947, Serial No. 537,696. Published July 25, 1950. Class 46.

534,544. MANUALLY OPERATED CABLE CUTTERS. MORSE-STARRETT PRODUCTS COMPANY, Oakland, Calif.
Filed Oct. 28, 1947, Serial No. 539,336. Published Sept. 5, 1950. Class 23.

534,545. SAWS, AXES, SLEDGES, WEDGES, METAL WORKING TOOLS, ETC. SANDVIKENS JERNVERKS AKTIEBOLAG, Sandviken, Sweden.
Filed Oct. 30, 1947, Serial No. 539,468. Published Sept. 19, 1950. Class 23.

534,546. ELECTRIC HEADLAMPS AND MOUNTINGS THEREFOR. ELWIN L. KNIGHT, Portland, Oreg.
Original filed, act of 1946, Supplemental Register, Nov. 10, 1947; amended to application, Principal Register, July 18, 1950, Serial No. 540,680. Published Sept. 5, 1950. Class 21.

534,547. PAINT ENAMELS AND QUICK DRYING VARNISH STAINS. REPUBLIC PAINT & VARNISH CO., Chicago, Ill.
Filed Nov. 17, 1947, Serial No. 541,459. Published Sept. 12, 1950. Class 16.

534,548. CANDY BARS. SPERRY CANDY COMPANY, Milwaukee, Wis.
Filed Nov. 18, 1947, Serial No. 541,599. Published July 25, 1950. Class 46.

534,549. VEGETABLE JUICE COCKTAIL. G. L. WEBSTER COMPANY, INC., Cheriton, Va.
Filed Nov. 18, 1947, Serial No. 541,615. Published July 25, 1950. Class 46.

534,550. WAX POLISH AND CLEANSER FOR FURNITURE, WALLS, FLOORS, AND AUTOMOBILES. O-CEDAR CORP'N, Chicago, Ill.
Filed July 26, 1947, Serial No. 541,769. Published Sept. 19, 1950. Class 4.

534,551. COOKED MEATS—NAMELY, COOKED HAM, BEEF, BACON, TONGUE, ETC. HORN & HARDART BAKING COMPANY, Philadelphia, Pa.
Filed Nov. 24, 1947, Serial No. 542,126. Published July 25, 1950. Class 46.

534,552. APPARATUS FOR THE TREATMENT OF SOLIDS SUSPENDED IN LIQUIDS AND MORE PARTICULARLY SEDIMENTATION APPARATUS SUCH AS CLARIFIERS, ETC. THE DORR COMPANY, New York, N. Y.
Filed Oct. 24, 1947, Serial No. 542,740. Published Sept. 19, 1950. Class 23.

534,553. MACARONI AND SPAGHETTI. THE CREAMETTE COMPANY, Minneapolis, Minn.
Filed Dec. 10, 1947, Serial No. 543,900. Published May 30, 1950. Class 46.

534,554. SCISSORS AND SHEARS, OF GENERAL HOUSEHOLD UTILITY. THE CLAYTON MANUFACTURING COMPANY, Bristol, Conn.
Filed Dec. 18, 1947, Serial No. 544,702. Published Sept. 5, 1950. Class 23.

534,555. POWER DRIVEN WOOD PLANING MACHINES — NAMELY, THOSE MORE SPECIFICALLY TERMED SIZERS, SURFACERS, ETC. S. A. WOODS MACHINE COMPANY, Boston, Mass.
Filed Dec. 22, 1947, Serial No. 545,207. Published Aug. 22, 1950. Class 23.

534,556. AIRPLANES AND STRUCTURAL PARTS THEREOF. THE RYAN AERONAUTICAL CO., San Diego, Calif.
Filed Dec. 23, 1947, Serial No. 545,282. Published Aug. 29, 1950. Class 19.

534,557. COFFEE. ATWOOD COFFEE COMPANY, doing business as Atwood Coffee Co., Minneapolis, Minn.
Filed Jan. 8, 1948, Serial No. 546,457. Published July 25, 1950. Class 46.

534,558. CANDY. THE BIANCHI CO., New York, N. Y.
Filed Jan. 8, 1948, Serial No. 546,460. Published July 25, 1950. Class 46.

534,559. FRESH GRAPEFRUIT. DESERT CITRUS GROWERS ASSOCIATION, Phoenix, Ariz.
Filed Jan. 19, 1948, Serial No. 547,433. Published July 25, 1950. Class 46.

534,560. HYDRAULIC PUMPS FOR MINING SAND. GEORGIA IRON WORKS CO., Augusta, Ga.
Filed Feb. 11, 1948, Serial No. 549,437. Published Aug. 15, 1950. Class 23.

534,561. FISH HOOKS. GLEN L. EVANS, INC., Caldwell, Idaho.
Filed Feb. 20, 1948, Serial No. 550,222. Published Sept. 5, 1950. Class 22.

534,562. FOODS FOR HUMAN CONSUMPTION, TO WIT: CANNED FRUITS AND VEGETABLES—NAMELY, CORN, ETC. THE CUSHING COMPANY, Hastings, Nebr.
Filed Feb. 28, 1948, Serial No. 550,793. Published July 25, 1950. Class 46.

534,563. FOODS FOR HUMAN CONSUMPTION, TO WIT: CANNED FRUITS AND VEGETABLES—NAMELY, CORN, TOMATOES, ETC. THE CUSHING COMPANY, Hastings, Nebr.
Filed Feb. 28, 1948, Serial No. 550,794. Published July 25, 1950. Class 46.

534,564. PIECE GOODS MADE OF COTTON, SILK, WOOL, SYNTHETIC FIBERS, ETC. TOOTAL BROADHURST LEE CO. LIMITED, Manchester, England.
Filed Mar. 1, 1948, Serial No. 550,966. Published Sept. 5, 1950. Class 42.

534,565. ARBORS USED WITH MACHINERY AND MACHINE TOOLS. CARL E. OVERTON, doing business as Austin Tool Works, Chicago, Ill.
Filed Mar. 4, 1948, Serial No. 551,194. Published Aug. 29, 1950. Class 23.

534,566. COMBINATION CIGARETTE CASES AND PYROPHORIC CIGARETTE LIGHTERS WHICH ARE MADE OF BASE METAL. MARATHON COMPANY, Attleboro, Mass.
Filed Mar. 5, 1948, Serial No. 551,295. Published Aug. 15, 1950. Class 8.

534,567. PERIODICAL. AHRENS PUBLISHING COMPANY, INC., New York, N. Y.
Filed Mar. 8, 1948, Serial No. 551,422. Published July 18, 1950. Class 38.

534,568. COFFEE. THE WHITE TURKEY—MURRAY HILL, New York, N. Y.
Filed Mar. 15, 1948, Serial No. 552,028. Published June 6, 1950. Class 46.

534,569. STAPLING MACHINES. THE HELLER COMPANY, Cleveland, Ohio.
Filed Mar. 23, 1948, Serial No. 552,774. Published Aug. 29, 1950. Class 23.

534,570. SMOKING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed Mar. 26, 1948, Serial No. 553,061. Published June 21, 1949. Class 17.

534,571. TEXTILE FABRICS OF COTTON IN THE PIECE, NOT INCLUDING PILE FABRICS. WENNONAH COTTON MILLS COMPANY, Lexington, N. C.
Filed Mar. 27, 1948, Serial No. 553,227. Published Sept. 5, 1950. Class 42.

534,572. RAISINS. CHRIS H. SCHEIDT, doing business as Biola Packing Co., Biola, Calif.
Filed Mar. 29, 1948, Serial No. 553,314. Published Jan. 3, 1950. Class 46.

534,573. A PLAYER PIANO ATTACHMENT CONSISTING OF A CABINET, ETC. WINTER & COMPANY, INC., New York, N. Y.
Filed Mar. 31, 1948, Serial No. 553,559. Published Sept. 19, 1950. Class 36.

534,574. BLEND OF SOYA AND CORN OILS USED AS FOODS. MASTAR PACKING COMPANY, Brooklyn, N. Y.
Filed Apr. 5, 1948, Serial No. 553,884. Published June 13, 1950. Class 46.

534,575. MECHANICALLY GROOVED PHONOGRAPH RECORDS AND FOR PHONOGRAPH RECORDS IN ALBUMS. COLUMBIA RECORDS, INC., Bridgeport, Conn.
Filed Apr. 7, 1948, Serial No. 554,008. Published Aug. 22, 1950. Class 36.

534,576. HOLDER FOR GRIPPING FOOD TO FACILITATE CARVING. MAXWELL-PHILLIP CO., INC., New York, N. Y.
Filed Apr. 15, 1948, Serial No. 554,682. Published Sept. 5, 1950. Class 23.

534,577. RESINS AND SOLUTIONS OF RESIN IN ORGANIC SOLVENTS FOR USE IN PAINTS, VARNISHES AND ENAMELS. DEVOE & REYNOLDS COMPANY, INC., New York, N. Y.
Filed Apr. 20, 1948, Serial No. 555,061. Published Aug. 8, 1950. Class 16.

534,578. PLASTIC COATED FABRICS SOLD IN BOLTS AND SHEETS USED FOR COVERING CHAIRS AND OTHER SEATING INSTALLATIONS, LUGGAGE, AND AS A WALL COVERING. THE PANTASOTE COMPANY, Passaic, N. J.
Filed Apr. 26, 1948, Serial No. 555,621. Published Sept. 5, 1950. Class 42.

534,579. INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION, ETC. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich.
Filed Apr. 28, 1948, Serial No. 555,734. Published Sept. 12, 1950. Class 23.

534,580. FRESH MELONS, FRESH DECIDUOUS FRUITS, AND FRESH VEGETABLES. MODESTO PRODUCE PACKING CO., INC., Modesto, Calif.
Filed May 4, 1948, Serial No. 556,212. Published July 18, 1950. Class 46.

534,581. SAW BLADES. MILLERS FALLS COMPANY, Greenfield, Mass.
Filed May 5, 1948, Serial No. 556,271. Published Aug. 29, 1950. Class 23.

534,582. INFLATABLE RUBBER TOYS AND BALLOONS. WILLIAM J. DAROWISH, New York, N. Y.
Filed May 10, 1948, Serial No. 556,624. Published Sept. 5, 1950. Class 22.

534,583. HOUSE PAINT, SHINGLE STAIN, LOG CABIN PAINT AND VARNISH FINISH, ETC. FROST PAINT & OIL CORPORATION, Minneapolis, Minn.
Filed May 10, 1948, Serial No. 556,628. Published Sept. 5, 1950. Class 16.

534,584. VENETIAN BLINDS. KIRSCH COMPANY, Sturgis, Mich.
Filed May 10, 1948, Serial No. 556,636. Published Aug. 29, 1950. Class 32.

534,585. DAIRY FEED COMPOSED OF PROTEIN, FAT, FIBER, AND ASH. TRIANGLE GRAIN COMPANY, LTD., Bellflower, Calif.
Filed May 10, 1948, Serial No. 556,671. Published July 11, 1950. Class 46.

534,586. TEXTILE GOODS IN THE PIECE MADE OF COTTON, WOOL, SYNTHETIC FIBERS, AND MIXTURES OF SAME. GOLDING BROS. COMPANY, INC., New York, N. Y.
Original filed, act of 1946, Supplemental Register, May 18, 1948; amended to application, Principal Register, Dec. 22, 1948, Serial No. 557,275. Published Dec. 6, 1949. Class 42.

534,587. CANDY. NORRIS, INCORPORATED, Atlanta, Ga.
Filed May 24, 1948, Serial No. 557,686. Published July 4, 1950. Class 46.

534,588. WIDE LACE YARD GOODS; WIDE EMBROIDERED AND PLAIN FABRICS MADE OF COTTON, RAYON, OR SILK; WIDE EMBROIDERED AND PLAIN FLOUNCINGS AND WIDE LACE FLOUNCING. EMANUEL ROTH CO. INC., New York, N. Y.
Filed June 2, 1948, Serial No. 558,289. Published Sept. 5, 1950. Class 42.

534,589. DEVICE IN THE NATURE OF A TABLE TOP ADAPTED TO BE POSITIONED UPON THE TOP OF A WASH STAND TO FORM A SURFACE FOR HOLDING A BABY, OR TO PROVIDE A TABLE TOP FOR OTHER PURPOSES. LOIS D. HINES, New York, N. Y.
Filed June 8, 1948, Serial No. 558,720. Published Sept. 12, 1950. Class 32.

534,590. BUTTER AND COTTAGE CHEESE. PHILADELPHIA DAIRY PRODUCTS COMPANY, INC., Philadelphia, Pa.
Filed June 15, 1948, Serial No. 559,244. Published July 25, 1950. Class 46.

534,591. BABY CRIBS, YOUTHS' BEDS, CHIFFOROBES, WOODEN HOUSEHOLD CHESTS FOR STORING PERSONAL EFFECTS, SUCH AS CLOTHING, BED LINENS, ETC., HIGH CHAIRS, ETC. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed June 16, 1948, Serial No. 559,343. Published Sept. 5, 1950. Class 32.

534,592. NONCORROSIVE AND WEAR-RESISTING PHONOGRAPH STYLI. PERMO INCORPORATED, Chicago, Ill.
Filed Mar. 17, 1948, Serial No. 559,427. Published Aug. 22, 1950. Class 36.

534,593. DRAPERIES AND FABRIC WALL COVERINGS MADE OF RAYON AND COTTON. UNITED WALLPAPER, INC., Chicago, Ill.
Filed June 30, 1948, Serial No. 560,507. Published Sept. 5, 1950. Class 42.

534,594. RUBBER AND SYNTHETIC RUBBER-COATED FABRICS OF COTTON, GLASS, ETC. ST. CLAIR RUBBER COMPANY, Detroit, Mich.
Filed July 1, 1948, Serial No. 560,580. Published Sept. 5, 1950. Class 42.

534,595. AUTOMOBILE, TRUCK, BUS, AND RAILWAY SHOCK ABSORBERS. MONROE AUTO EQUIPMENT COMPANY, Monroe, Mich.
Filed July 2, 1948, Serial No. 560,643. Published Sept. 5, 1950. Class 19.

534,596. CRIMPING PLIER WRENCHES, HOOKS, AND SPANNERS FOR USE IN THE REPAIR, ADJUSTMENT, AND MAINTENANCE OF RADIOS, TELEVISION SETS, AND COIN OPERATED MACHINES. CENTRAL SERVICE SALES COMPANY, Kokomo, Ind.
Filed July 9, 1948, Serial No. 560,968. Published Aug. 29, 1950. Class 23.

534,597. CHOCOLATE CANDIES. AKTIEBOLAGET C. G. NYSTRÖM & Co., Hagalund, Sweden.
Filed July 10, 1948, Serial No. 561,064. Published July 18, 1950. Class 46.

534,598. SOUND RECORDS FOR DICTATING MACHINES. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed July 10, 1948, Serial No. 561,097. Published Aug. 22, 1950. Class 36.

534,599. FILLED WAFER BARS, CHOCOLATE COVERED AND PLAIN, IN THE NATURE OF CANDY. DELICIA CHOCOLATE & CANDY MFG. CO. INC., New York, N. Y.
Filed July 14, 1948, Serial No. 561,299. Published July 25, 1950. Class 46.

534,600. RESINOUS PLASTIC MATERIALS FOR USE IN THE MANUFACTURE OF PAINTS, ETC. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed July 23, 1948, Serial No. 562,016. Published Sept. 5, 1950. Class 16.

534,601. SNUFF. GEORGE W. HELME COMPANY, New York, N. Y.
Filed July 23, 1948, Serial No. 562,055. Published Sept. 19, 1950. Class 17.

534,602. FROZEN AND SHELL EGGS, FROZEN AND FRESH DRESSED POULTRY, AND BUTTER. DAVIS-CLEAVER PRODUCE COMPANY, Quincy, Ill.
Filed July 28, 1948, Serial No. 562,331. Published July 18, 1950. Class 46.

534,603. COLOR PIGMENTS HAVING USE AS A COLORING MATERIAL IN PAINTS. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn.
Filed July 29, 1948, Serial No. 562,484. Published Sept. 12, 1950. Class 16.

534,604. PLAYING CARDS INCLUDING PACKAGED DECKS OF CARDS. ARTHUR C. DAMAN, Denver, Colo.
Filed Aug. 6, 1948, Serial No. 562,912. Published Sept. 5, 1950. Class 22.

534,605. PLAYING CARDS INCLUDING PACKAGED DECKS OF CARDS. ARTHUR C. DAMAN, Denver, Colo.
Filed Aug. 6, 1948, Serial No. 562,913. Published Sept. 5, 1950. Class 22.

534,606. PLAYING CARDS INCLUDING PACKAGED DECKS OF CARDS. ARTHUR C. DAMAN, Denver, Colo.
Filed Aug. 6, 1948, Serial No. 562,915. Published Sept. 5, 1950. Class 22.

534,607. PLAYING CARDS INCLUDING PACKAGED DECKS OF CARDS. ARTHUR C. DAMAN, Denver, Colo.
Filed Aug. 6, 1948, Serial No. 562,916. Published Sept. 5, 1950. Class 22.

534,608. CAPSULATED MATERIALS FOR USE WITH TOYS AND SPORTING GOODS — NAMELY, SMOKE CAPSULES FOR TOY TRAINS AND LIQUID FILLED GOLF BALL CENTER CAPSULES. R. P. SCHERER CORPORATION, Detroit, Mich.
Filed Aug. 7, 1948, Serial No. 563,019. Published Sept. 5, 1950. Class 22.

534,609. CHROMIUM PLATED METAL FURNITURE FRAMES AND PARTS FOR FURNITURE FRAMES. ARNOLT CORPORATION, Warsaw, Ind.
Filed Aug. 23, 1948, Serial No. 563,841. Published Sept. 12, 1950. Class 32.

534,610. FISHING POLES AND PARTS THEREFOR. EDER-BAILIE CORPORATION, South Bend, Ind.
Filed Aug. 31, 1948, Serial No. 564,440. Published Sept. 5, 1950. Class 22.

534,611. FISHING POLES AND PARTS THEREFOR. EDER-BAILIE CORPORATION, South Bend, Ind.
Filed Aug. 31, 1948, Serial No. 564,441. Published Sept. 5, 1950. Class 22.

534,612. COMMERCIAL MOTOR VEHICLES—NAMELY, TRUCKS, BUSSES, COACHES, AND PARTICULARLY BODIES USED ON MULTI-STOP CHASSIS, AND STRUCTURAL PARTS. THE METROPOLITAN BODY COMPANY, Bridgeport, Conn.
Filed Sept. 3, 1948, Serial No. 564,639. Published Aug. 29, 1950. Class 19.

534,613. SMOKERS' STANDS. CONCORD PRODUCTS CORPORATION, Chicago, Ill.
Filed Sept. 10, 1948, Serial No. 564,936. Published Aug. 29, 1950. Class 32.

534,614. MEN'S AND BOYS' UNDERWEAR. P. H. HANES KNITTING COMPANY, Winston-Salem, N. C.
Filed Sept. 10, 1948, Serial No. 564,942. Published Sept. 12, 1950. Class 39.

534,615. BREAD, ROLLS, CAKE, DOUGHNUTS, AND COOKIES. BELL BAKERIES, INC., New York, N. Y.
Filed Sept. 18, 1948, Serial No. 565,409. Published July 18, 1950. Class 46.

534,616. DRAW PUNCHES. JOHN C. NISCHAN, doing business as Nischan Products Co., Hammond, Ind.
Filed Sept. 18, 1948, Serial No. 565,445. Published Aug. 15, 1950. Class 23.

534,617. CABLE PAINT, VARNISH, SPAR VARNISH, ETC. EDWARD SMITH & Co., INC., New York, N. Y.
Filed Sept. 21, 1948, Serial No. 565,585. Published Sept. 19, 1950. Class 16.

534,618. LADIES' SLIPS. VELMA LINGERIE CORP., New York, N. Y.
Filed Sept. 24, 1948, Serial No. 565,831. Published Sept. 12, 1950. Class 39.

534,619. FRESH MEAT—NAMELY, BEEF LOINS, BEEF RIBS, AND BEEF STEAKS. ABNER MICHAUD, doing business as A. Michaud Co., Philadelphia, Pa.
Filed Mar. 26, 1948, Serial No. 565,836. Published July 18, 1950. Class 46.

534,620. OUTBOARD MOTORS, INDUSTRIAL ENGINES, AND PARTS THEREOF. KIEKHAEFER CORPORATION, Cedarburg, Wis.
Filed Sept. 27, 1948, Serial No. 565,937. Published Aug. 29, 1950. Class 23.

534,621. CANNED FRUITS AND VEGETABLES. FERNANDO CANNING COMPANY, INC., San Fernando, Calif.
Filed Oct. 1, 1948, Serial No. 566,222. Published July 18, 1950. Class 46.

534,622. BABY BATH TOWELS. AVIVAH BENAMY, Brooklyn, N. Y.
Filed Oct. 8, 1948, Serial No. 566,689. Published Sept. 5, 1950. Class 42.

534,623. ELECTRICAL PHONOGRAPHS, RADIO RECEIVING SETS, RADIO TRANSMITTING SETS, TELEVISION RECEIVING EQUIPMENT, AND TELEVISION SENDING EQUIPMENT. REMINGTON RADIO CORPORATION, White Plains, N. Y.
Original filed, act of 1946, Supplemental Register, Oct. 19, 1948; amended to application, Principal Register, Jan. 26, 1950, Serial No. 567,210. Published Sept. 12, 1950. Class 21.

534,624. CANNED FOODS—NAMELY, VEGETABLES, FRUITS, OYSTERS, LOBSTER, ETC. CLOVER FARM STORES CORPORATION, Cleveland, Ohio.
Filed Oct. 21, 1948, Serial No. 567,388. Published July 25, 1950. Class 46.

534,625. CANNED FRUITS AND VEGETABLES, JAMS, JELLY, FRUIT PRESERVES, AND FRUIT AND VEGETABLE JUICES. LEVERTON & COMPANY, Houston, Tex.
Filed Oct. 21, 1948, Serial No. 567,410. Published July 18, 1950. Class 46.

534,626. TOWELS. NATIONAL INDUSTRIAL LAUNDRIES, Newark, N. J.
Filed Oct. 21, 1948, Serial No. 567,422. Published Sept. 5, 1950. Class 42.

534,627. LACE PIECE GOODS SOLD BY THE PIECE, YARD, OR BOLT. AMERICAN TEXTILE COMPANY, INC., Pawtucket, R. I.
Filed Oct. 23, 1948, Serial No. 567,481. Published Sept. 5, 1950. Class 42.

534,628. CUSHIONS OF FOAM RUBBER. THE RELIABLE TEXTILE COMPANY, doing business as The Relton Company, Chicago, Ill.
Filed Oct. 26, 1948, Serial No. 567,648. Published Sept. 5, 1950. Class 32.

534,629. ZINC OXIDE FOR USE IN PAINTS AND IN INGREDIENTS THEREOF. THE NEW JERSEY ZINC COMPANY, New York, N. Y.
Filed Nov. 5, 1948, Serial No. 568,268. Published Sept. 12, 1950. Class 16.

534,630. PAINTS COMPRISING INTERIOR WALL PAINT AND EXTERIOR HOUSE PAINT, VARNISHES, PAINT, VARNISH AND LACQUER GLOSSES, PAINT ENAMELS, PRIMING AND SEALING UNDERCOATING COMPOSED OF PAINT, SHELLAC, AND SUBSTITUTE SHELLAC. CENTRAL PAINT & VARNISH WORKS, INC., Brooklyn, N. Y.
Filed Nov. 6, 1948, Serial No. 568,295. Published Sept. 5, 1950. Class 16.

534,631. ELECTRIC STORAGE BATTERIES AND PARTS THEREOF. UNIVERSAL BATTERY CO., Chicago, Ill.
Filed Nov. 12, 1948, Serial No. 568,694. Published Sept. 12, 1950. Class 21.

534,632. RADIO TRANSMITTING AND RECEIVING APPARATUS, TRANSDUCING DEVICES FOR PHONOGRAPH RECORDS, ETC. LEAR, INCORPORATED, Grand Rapids, Mich.
Filed Nov. 13, 1948, Serial No. 568,738. Published Sept. 5, 1950. Class 21.

534,633. CERAMIC OVERGLAZE COLORS, CERAMIC ENGOBES COLORS, CERAMIC UNDERGLAZE COLORS, COLORED GLASS CERAMIC GLAZES, INCLUDING MAJOLICA GLAZES, LOW FIRED CERAMIC GLAZES, SATIN FINISH CERAMIC GLAZES, AND MATT FINISH CERAMIC GLAZES. PEMCO CORPORATION, Baltimore, Md.
Filed Nov. 17, 1948, Serial No. 568,974. Published Sept. 12, 1950. Class 16.

534,634. RAYON PIECE GOODS. PLAZA MILLS, INC., New York, N. Y.
Filed Nov. 17, 1948, Serial No. 568,977. Published Sept. 5, 1950. Class 42.

534,635. CIGARS AND CHEROOTS. THE S. FRIEDER & SONS COMPANY, Cincinnati, Ohio, and Philadelphia, Pa.
Filed Nov. 27, 1948, Serial No. 569,514. Published Sept. 19, 1950. Class 17.

534,636. CIGARS AND CHEROOTS. THE S. FRIEDER & SONS COMPANY, Cincinnati, Ohio, and Philadelphia, Pa.
Filed Nov. 27, 1948, Serial No. 569,516. Published Sept. 19, 1950. Class 17.

534,637. COMBINATION TOY CONSISTING OF A MAGNETIC TOY RABBIT AND A MAGNETIC TOY CARROT. WINCHESTER TOY COMPANY, Philadelphia, Pa.
Filed Nov. 27, 1948, Serial No. 569,545. Published Sept. 5, 1950. Class 22.

534,638. TEXTILE RUGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed Dec. 3, 1948, Serial No. 569,871. Published Sept. 5, 1950. Class 42.

534,639. SUN VISOR FOR ATTACHMENT TO AN AUTOMOBILE WINDOW. KROMWEEL MFG. CO, INC., Brooklyn, N. Y.
Filed Sept. 1, 1948, Serial No. 570,931. Published Sept. 19, 1950. Class 19.

534,640. BEARING BUSHINGS. FEDERAL-MOGUL CORPORATION, Detroit, Mich.
Filed Dec. 27, 1948, Serial No. 571,128. Published Aug. 22, 1950. Class 23.

534,641. MONTHLY FICTION MAGAZINE. WINGS PUBLISHING CO., INC., New York, N. Y.
Filed Dec. 31, 1948, Serial No. 571,477. Published Sept. 5, 1950. Class 38.

534,642. GIRDLES, PANTIE GIRDLES, GARTER BELTS, AND BRASSIÈRES. OLGA COMPANY, Los Angeles, Calif.
Filed Jan. 3, 1949, Serial No. 571,570. Published Sept. 19, 1950. Class 39.

534,643. SHOES. THE BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed Jan. 3, 1949, Serial No. 571,571. Published Sept. 19, 1950. Class 39.

534,644. SHOES. THE BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed Jan. 3, 1949, Serial No. 571,572. Published Sept. 19, 1950. Class 39.

534,645. SHOES. THE BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed Jan. 3, 1949, Serial No. 571,573. Published Sept. 19, 1950. Class 39.

534,643. CAKE. EDWIN B. DUTCHER, Sheffield, Mass.
Filed Jan. 5, 1949, Serial No. 571,635. Published July 25, 1950. Class 46.

534,644. VEHICLES—NAMELY, TRENCH EXCAVATORS, AND SNOW PLOWS. BADGER MACHINE COMPANY, Winona, Minn.
Filed Jan. 10, 1949, Serial No. 571,930. Published Sept. 12, 1950. Class 23.

534,645. SMOKING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed Jan. 11, 1949, Serial No. 571,945. Published Sept. 19, 1950. Class 17.

534,646. EDIBLE GELATIN. SWIFT & COMPANY, Chicago, Ill.
Filed Jan. 12, 1949, Serial No. 572,071. Published July 25, 1950. Class 46.

534,647. BAKING ENAMELS. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed Jan. 21, 1949, Serial No. 572,501. Published Sept. 5, 1950. Class 16.

534,648. FRESH CITRUS FRUITS. STRATHMORE PACKING HOUSE CO., Strathmore, Calif.
Filed Jan. 24, 1949, Serial No. 572,701. Published July 25, 1950. Class 46.

534,649. CIGARS. D W G CIGAR CORPORATION, Detroit, Mich.
Filed Jan. 31, 1949, Serial No. 573,081. Published Sept. 19, 1950. Class 17.

534,650. ELECTRICALLY OPERATED SOUND RECORDING AND REPRODUCING MACHINES EMPLOYING A THIN, FLEXIBLE RECORD MEMBER AND PARTS THEREFOR. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed Feb. 5, 1949, Serial No. 573,362. Published Sept. 12, 1950. Class 21.

534,651. ELECTRICALLY OPERATED SOUND RECORDING AND REPRODUCING MACHINES EMPLOYING A THIN FLEXIBLE RECORD MEMBER AND PARTS THEREFOR. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed Feb. 5, 1949, Serial No. 573,363. Published Sept. 12, 1950. Class 21.

534,652. ELECTRICALLY OPERATED SOUND RECORDING AND REPRODUCING MACHINES EMPLOYING A THIN, FLEXIBLE RECORD MEMBER AND PARTS THEREFOR. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed Feb. 5, 1949, Serial No. 573,364. Published Sept. 19, 1950. Class 21.

534,653. ELECTRICALLY OPERATED SOUND RECORDING AND REPRODUCING MACHINES EMPLOYING AS A RECORD MEDIUM A WAX CYLINDER AND PARTS THEREFOR. DICTAPHONE CORPORATION, Bridgeport, Conn.
Filed Feb. 5, 1949, Serial No. 573,365. Published Sept. 12, 1950. Class 21.

534,654. RADIO AMPLIFIERS. WESTINGHOUSE ELECTRIC CORPORATION, East Pittsburgh, Pa.
Filed Feb. 5, 1949, Serial No. 573,394. Published Sept. 5, 1950. Class 21.

534,655. BRASSIÈRES, BANDEAUX, GIRDLES, GARTERBELTS, CORSETS, AND FOUNDATION GARMENTS. AMERICAN BRASSIERE CO., INC., New York, N. Y.
Filed Feb. 8, 1949, Serial No. 573,462. Published Sept. 12, 1950. Class 39.

534,656. CIGARS AND CHEROOTS. THE S. FRIEDER & SONS COMPANY, Cincinnati, Ohio, and Philadelphia, Pa.
Filed Feb. 16, 1949, Serial No. 573,938. Published Sept. 19, 1950. Class 17.

534,657. SPAR VARNISH. TUNG OIL PRODUCTS, INC., Brooker, Fla.
Filed Feb. 16, 1949, Serial No. 573,997. Published Sept. 5, 1950. Class 16.

534,658. BLANKET COVERS, COMFORTER COVERS, MATTRESS COVERS, CRIB COVERS, PILLOW CASES, PILLOW-TICKINGS, BED SHEETS, AND TABLE CLOTHS. MAX DAVIDOFF, doing business under the name of Glimar Manufacturing Company, New York, N. Y.
Filed Feb. 21, 1949, Serial No. 574,216. Published Sept. 5, 1950. Class 42.

534,659. CONSOLIDATED CERTIFICATE. THE B. F. GOODRICH COMPANY, New York, N. Y., and Akron, Ohio.
RUBBER AND/OR RESINOUS PLASTIC MATERIAL WITH AND WITHOUT A BACKING OF WOVEN AND/OR KNITTED FABRIC SOLD IN SHEET FORM FOR GENERAL USE IN THE INDUSTRIAL ARTS. Filed Mar. 4, 1949, Serial No. 574,906. Published Apr. 25, 1950. Class 1.
GLOVES FOR GENERAL PROTECTIVE PURPOSES MADE WHOLLY OR PARTLY OF RUBBER. Filed Mar. 24, 1948, Serial No. 552,857. Published May 23, 1950. Class 39.
WOVEN AND/OR KNITTED FABRICS OF COTTON, WOOL, SILK, AND SYNTHETIC FIBERS COATED WITH RUBBER AND/OR RESINOUS PLASTIC MATERIAL SOLD IN THE PIECE. Filed Mar. 4, 1949, Serial No. 574,907. Published May 23, 1950. Class 42.

534,660. TEXTILE RUGS AND CARPETS. HUGH NELSON-COLUMBIA CARPET MILLS, INC., Philadelphia, Pa.
Filed Jan. 28, 1949, Serial No. 575,109. Published Sept. 5, 1950. Class 42.

534,661. SYNTHETIC RESIN BASE FINISHES AND ASSOCIATED FINISHING MATERIALS—NAMELY, VARNISHES, ENAMELS, PRIMERS, FILLERS, AND REDUCERS. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, South Kearny and Newark, N. J.
Filed Mar. 9, 1949, Serial No. 575,130. Published Sept. 12, 1950. Class 16.

534,662. WHEAT FLOUR FOR HUMAN CONSUMPTION. INTERNATIONAL MILLING COMPANY, Minneapolis, Minn.
Filed Mar. 15, 1949, Serial No. 575,471. Published July 25, 1950. Class 46.

534,663. MISSES' AND JUNIOR MISSES' SKIRTS, SLACKS, JACKETS, OUTER SHORTS, PEDAL PUSHERS, BLOUSES, WESKITS, DRESSES, AND SUITS. TUDOR SQUARE SPORTSWEAR, INC., New York, N. Y.
Filed Mar. 18, 1949, Serial No. 575,683. Published Sept. 19, 1950. Class 39.

534,664. MACARONI. SKINNER MANUFACTURING COMPANY, Omaha, Nebr.
Filed Mar. 21, 1949, Serial No. 575,788. Published July 25, 1950. Class 46.

534,665. READY-MIXED PAINT FOR USE ON EXTERIOR AND INTERIOR WALLS, CONCRETE, HOUSES, ROOFS, ALUMINUM, AND FLOORS; VARNISH, PAINT ENAMELS, ETC. COTTER & COMPANY, Chicago, Ill.
Filed Mar. 23, 1949, Serial No. 575,892. Published Sept. 12, 1950. Class 16.

534,666. GIRDLES, PANTIE GIRDLES, COMBINATION GIRDLES AND BRASSIÈRES, BANDEAUX, AND GARTER BELTS. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed Mar. 28, 1949, Serial No. 576,187. Published Sept. 12, 1950. Class 39.

534,667. MEAT, VEGETABLE, AND FISH SAUCE CONTAINING VINEGAR, MUSTARD, CATSUP, LEMON, BUTTER, AND SEASONING. JESSE EROL MOONEY, Jr., Savannah, Ga.
Filed Mar. 29, 1949, Serial No. 576,273. Published July 18, 1950. Class 46.

534,668. CANNED SPICED COOKED BEEF, CANNED CORNED BRISKET BEEF, ETC. INTERNATIONAL PACKERS COMMERCIAL CO., INC., Chicago, Ill.
Filed Mar. 30, 1949, Serial No. 576,334. Published July 18, 1950. Class 46.

534,669. COTTON TOWELS FOR DISHES AND GLASSWARE. SERVICE TEXTILE COMPANY, INC., Newark, N. J.
Filed Apr. 4, 1949, Serial No. 576,594. Published Sept. 5, 1950. Class 42.

534,670. WHEAT FLOUR, FOR HUMAN CONSUMPTION, AND POULTRY AND LIVESTOCK FEED WITH A GRAIN BASE. THE QUAKER OATS COMPANY, Chicago, Ill.
Filed Apr. 18, 1949, Serial No. 577,342. Published July 18, 1950. Class 46.

534,671. TOBACCO PIPES, TOBACCO POUCHES, TOBACCO PIPE SCRAPERS, ASH TRAYS, CIGARETTE CASES, CIGARETTE BOXES, ETC. THE PARKER PIPE COMPANY LIMITED, London, England.
Filed Apr. 20, 1949, Serial No. 577,448. Published Aug. 29, 1950. Class 8.

534,672. PLASTIC TOPS FOR DINING AND DINETTE TABLES. MEIER & POHLMANN FURNITURE COMPANY, St. Louis, Mo.
Filed Apr. 23, 1949, Serial No. 577,580. Published Aug. 29, 1950. Class 32.

534,673. WATERPROOF STRUCTURAL AND EXTERIOR PAINT. THE ARCO COMPANY, Cleveland, Ohio.
Filed Apr. 29, 1949, Serial No. 577,923. Published Sept. 12, 1950. Class 16.

534,674. MUSICAL INSTRUMENTS OF THE TYPE COMPRISING A BOARD WITH A PLURALITY OF GROOVED METAL DISCS LOOSELY MOUNTED THEREON. JOHN MASON, New York, N. Y.
Filed Apr. 29, 1949, Serial No. 577,973. Published Aug. 22, 1950. Class 36.

534,675. FRESH GRAPEFRUIT. MEYERS FRUIT COMPANY, Minneapolis, Minn.
Filed May 2, 1949, Serial No. 578,089. Published July 25, 1950. Class 46.

534,676. SALTED NUTS. KRISPY KERNELS, INC., Newark, N. J.
Filed May 3, 1949, Serial No. 578,147. Published July 25, 1950. Class 46.

534,677. BAKERY GOODS — NAMELY, SANDWICH BUNS. SAFEWAY STORES, INCORPORATED, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and elsewhere.
Filed May 3, 1949, Serial No. 578,168. Published July 25, 1950. Class 46.

534,678. BLANKETS. THE ORR FELT & BLANKET COMPANY, Piqua, Ohio.
Filed May 4, 1949, Serial No. 578,215. Published Sept. 5, 1950. Class 42.

534,679. BLANKETS AND AUTOMOBILE ROBES. TROY BLANKET MILLS, Troy, N. H.
Filed May 4, 1949, Serial No. 578,237. Published Sept. 5, 1950. Class 42.

534,680. CANNED CORN. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn., now by change of name Green Giant Company, a corporation of Minnesota.
Filed May 5, 1949, Serial No. 578,276. Published July 25, 1950. Class 46.

534,681. LUNCHEON CLOTHS AND TABLE CLOTHS. SAGE BRUSH ORIGINALS, INC., Cheyenne, Wyo.
Filed May 5, 1949, Serial No. 578,287. Published Sept. 5, 1950. Class 42.

534,682. LADIES' NIGHTGOWNS, CHEMISES, AND SLIPS. BARBIZON CORPORATION, New York, N. Y.
Filed May 11, 1949, Serial No. 578,561. Published Sept. 12, 1950. Class 39.

534,683. WOOLEN PERAMBULATOR COVERLETS. PORTLAND WOOLEN MILLS, INC., Portland, Oreg.
Filed May 13, 1949, Serial No. 578,822. Published Sept. 5, 1950. Class 42.

534,684. TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON, SILK, PROTEIN FIBRES, AND MIXTURES THEREOF. ONONDAGA SILK CO., INC., New York, N. Y.
Original filed, act of 1946, Supplemental Register, May 18, 1949; amended to application, Principal Register, Jan. 12, 1950, Serial No. 579,051. Published Sept. 5, 1950. Class 42.

534,685. SURFACE COATING COMPOSITIONS CONSISTING PRINCIPALLY OF A SOLUTION OF A SYNTHETIC RESIN IN A VOLATILE SOLVENT USED FOR SEALING EXPOSED SURFACES OF CONCRETE AND MASONRY. DEWEY AND ALMY CHEMICAL COMPANY, Cambridge, Mass.
Filed May 19, 1949, Serial No. 579,083. Published Sept. 12, 1950. Class 16.

534,686. TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF. D. B. FULLER & CO., INC., New York, N. Y.
Original filed, act of 1946, Supplemental Register, May 19, 1949; amended to application, Principal Register, Jan. 27, 1950, Serial No. 579,094. Published Sept. 5, 1950. Class 42.

534,687. TOILET LID COVER. MARY GIROZAN, Cleveland, Ohio.
Filed May 19, 1949, Serial No. 579,098. Published Sept. 5, 1950. Class 42.

534,688. COFFEE, TEA, AND WHOLE AND GROUND SPICES, ETC. THE WOOLSON SPICE COMPANY, Toledo, Ohio.
Filed May 21, 1949, Serial No. 579,303. Published July 25, 1950. Class 46.

534,689. NON-ELECTRIC DUMB WAITERS AND HAND POWER ELEVATORS. VINCENT WHITNEY COMPANY, San Francisco, Calif.
Filed May 23, 1949, Serial No. 579,366. Published Sept. 12, 1950. Class 23.

534,690. PIECE GOODS OF COTTON AND/OR SYNTHETIC FIBRES. MEB EXPORT CO. INC., New York, N. Y.
Filed May 25, 1949, Serial No. 579,506. Published Sept. 5, 1950. Class 42.

534,691. PEDAL BICYCLES. F. NAVAS Y COMPAÑIA, Habana, Cuba.
Filed May 27, 1949, Serial No. 579,588. Published Aug. 29, 1950. Class 19.

534,692. AGRICULTURAL IMPLEMENTS—NAMELY, CULTIVATORS. MARVIN LANDPLANE CO., Woodland, Calif.
Filed May 31, 1949, Serial No. 579,751. Published Aug. 22, 1950. Class 23.

534,693. FLASHLIGHT. JOE LOWE CORPORATION, New York, N. Y.
Filed June 7, 1949, Serial No. 580,077. Published Sept. 19, 1950. Class 21.

534,694. COMBINATION AND ONE-PIECE BANDEAUX AND GIRDLES. ROYAL WORCESTER CORSET COMPANY, Worcester, Mass.
Filed June 7, 1949, Serial No. 580,098. Published Sept. 12, 1950. Class 39.

534,695. AEROPLANE ENGINES AND PARTS THEREOF. ARMSTRONG SIDDELEY MOTORS LIMITED, Coventry, England.
Filed June 10, 1949, Serial No. 580,220. Published Aug. 22, 1950. Class 23.

534,696. KNITTED FABRIC COMPOSED OF SYNTHETIC FIBERS. JANTZEN KNITTING MILLS INC., Portland, Oreg.
Filed June 10, 1949, Serial No. 580,242. Published Sept. 5, 1950. Class 42.

534,697. PAPER ROLL HOLDERS WITH CUTTERS. CUTTER, INCORPORATED, Boston, Mass.
Filed June 11, 1949, Serial No. 580,289. Published Sept. 12, 1950. Class 23.

534,698. MECHANICALLY GROOVED PHONOGRAPH RECORDS. PLASTIC ART TOY CORPORATION OF AMERICA, East Rutherford, N. J.
Filed June 17, 1949, Serial No. 580,672. Published Aug. 22, 1950. Class 36.

534,699. DOLLS AND DOLL HAIR WAVE SETS. THE TONI COMPANY, Chicago, Ill., and St. Paul, Minn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware.
Filed June 25, 1949, Serial No. 581,103. Published Sept. 5, 1950. Class 22.

534,700. CANNED MINESTRONE SOUP. BUDRELL PACKERS, INC., Everett, Mass.
Filed June 29, 1949, Serial No. 581,247. Published July 25, 1950. Class 46.

534,701. HAND MIRRORS, WALL MIRRORS, AND MIRRORS USED IN CONNECTION WITH FURNITURE. HAMILTON GLASS COMPANY, INC., Chicago, Ill.
Filed July 1, 1949, Serial No. 581,420. Published Sept.

534,702. POWER OPERATED SPRAYERS FOR THE APPLICATION OF HERBICIDES, FERTILIZERS, INSECTICIDES, FUNGICIDES, AND OTHER LIQUID AGRICULTURAL CHEMICALS. HOWARD HANSON & CO., South Beloit, Ill.
Filed July 2, 1949, Serial No. 581,476. Published Sept. 5, 1950. Class 23.

534,703. LAUNDRY MACHINERY, PARTICULARLY MACHINES AND PARTS THEREOF, FOR PRESSING OR IRONING WEARING APPAREL SUCH AS SHIRTS. THE AMERICAN LAUNDRY MACHINERY COMPANY, Cincinnati, Ohio.
Filed July 8, 1949, Serial No. 581,635. Published Aug. 29, 1950. Class 24.

534,704. MACARONI. MINNESOTA MACARONI COMPANY, St. Paul, Minn.
Filed July 8, 1949, Serial No. 581,676. Published July 25, 1950. Class 46.

534,705. TOBACCO POUCHES MADE OF LEATHER. ALFRED DUNHILL LIMITED, London, England.
Filed July 9, 1949, Serial No. 581,712. Published Aug. 29, 1950. Class 8.

534,706. FLATWORK IRONING MACHINES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Cincinnati, Ohio.
Filed July 14, 1949, Serial No. 581,925. Published Aug. 29, 1950. Class 24.
5, 1950. Class 32.

534,707. BOLOGNA SAUSAGE. KARL SEILER & SONS, INC., Philadelphia, Pa.
Filed July 14, 1949, Serial No. 581,993. Published July 25, 1950. Class 46.

534,708. CANNED MINESTRONE SOUP. BUDRELL PACKERS, INC., Everett, Mass.
Filed July 15, 1949, Serial No. 582,021. Published July 25, 1950. Class 46.

534,709. CIGARS. CIFUENTES Y COMPAÑIA, Habana, Cuba.
Filed July 15, 1949, Serial No. 582,025. Published Sept. 12, 1950. Class 17.

534,710. FRESH TOMATOES. GARGIULO & AMENDOLA, INC., New York, N. Y.
Filed July 15, 1949, Serial No. 582,041. Published July 25, 1950. Class 46.

534,711. FRESH CITRUS FRUITS. ALTURAS PACKING CO., INC., Connersville and Bartow, Fla.
Filed July 20, 1949, Serial No. 582,204. Published July 25, 1950. Class 46.

534,712. FRESH POTATOES. BERNARD G. WOLTER, Peoria, Ill.
Filed July 20, 1949, Serial No. 582,261. Published July 25, 1950. Class 46.

534,713. ELECTRIC DOMESTIC VACUUM CLEANERS. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed July 21, 1949, Serial No. 582,312. Published Sept. 19, 1950. Class 21.

534,714. FRESH GRAPES. THOMPSON DISTRIBUTORS, Bakersfield, Calif.
Filed July 23, 1949, Serial No. 582,451. Published July 25, 1950. Class 46.

534,715. TELEPHONE SUPPORT AND STERILIZER. STERL-A-FONE CORPORATION OF AMERICA, Seattle, Wash.
Filed July 25, 1949, Serial No. 582,502. Published Sept. 19, 1950. Class 21.

534,716. DAIRY PRODUCTS—NAMELY, PASTEURIZED MILK, CHOCOLATE MILK, BUTTERMILK, CREAM, AND HOMOGENIZED MILK. THE LEATHERWOOD COMPANY, INC., Bluefield, W. Va.
Filed July 27, 1949, Serial No. 582,568. Published July 25, 1950. Class 46.

534,717. PORTABLE AUTOMATIC ICE-HANDLING MACHINES. LANSING SALES AGENCY, Lansing, Ill.
Filed Aug. 4, 1949, Serial No. 582,968. Published Sept. 5, 1950. Class 23.

534,718. ELECTRIC MOTOR DRIVEN FOOD MIXERS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn., Racine, Wis., and other places.
Filed Aug. 6, 1949, Serial No. 583,124. Published Sept. 19, 1950. Class 21.

534,719. FROZEN CONFECTIONS. THE STANDARD FRUIT PRODUCT COMPANY, Cincinnati, Ohio.
Filed Aug. 6, 1949, Serial No. 583,128. Published July 25, 1950. Class 46.

534,720. CANNED CAT FOOD. T. C. SLAUGHTER COMPANY, Reedville, Va.
Filed Aug. 10, 1949, Serial No. 583,299. Published July 18, 1950. Class 46.

534,721. MISSES', JUNIOR MISSES', AND CHILDREN'S TOP COATS, OVERCOATS, OUTERSKIRTS, AND UNDER SKIRTS, JACKETS, SUITS, HATS, AND SLACKS. BEST & CO. INC., New York, N. Y.
Filed July 13, 1949, Serial No. 583,318. Published Aug. 1, 1950. Class 39.

534,722. WOMEN'S DRESSES. ALBERT HOCHBERG, doing business as Albert Hochberg Co., New York, N. Y.
Filed Aug. 20, 1949, Serial No. 583,757. Published Sept. 12, 1950. Class 39.

534,723. ALL PURPOSE SEAT CUSHIONS. COLUMBIA AUTO SEAT COVER CO., INC., Los Angeles, Calif.
Filed Aug. 23, 1949, Serial No. 583,863. Published Aug. 29, 1950. Class 32.

534,724. PERCUSSION MUSICAL INSTRUMENTS—NAMELY, CYMBALS AND GONGS. THE PREMIER DRUM COMPANY LIMITED, South Wigston, Leicester, and London, England.
Filed Aug. 24, 1949, Serial No. 583,946. Published Aug. 22, 1950. Class 36.

534,725. GENERATORS, SELSYN UNITS, AND FREQUENCY CONVERTERS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed Aug. 23, 1949, Serial No. 583,976. Published Sept. 19, 1950. Class 21.

534,726. END TABLES, COFFEE TABLES, LOUNGE CHAIRS, PLATFORM ROCKERS, AND DAVENPORTS. MILTON T. SMITH, doing business as Economy Furniture Upholstery, Austin, Tex.
Filed Aug. 26, 1949, Serial No. 584,085. Published Aug. 29, 1950. Class 32.

534,727. MAGNETICALLY - ATTACHED UTILITY TRAYS FOR AUTOMOBILES. POLYSCOPE EQUIPMENT & APPLIANCE CO., INC., Brooklyn, N. Y.
Filed Aug. 27, 1949, Serial No. 584,153. Published Sept. 5, 1950. Class 19.

534,728. FRESH CITRUS FRUITS. SANGER CITRUS ASSOCIATION, Sanger, Calif.
Filed Aug. 27, 1949, Serial No. 584,156. Published July 18, 1950. Class 46.

534,729. HOSPITAL CARTS. DEBS HOSPITAL SUPPLIES, INC., Chicago, Ill.
Filed Aug. 30, 1949, Serial No. 584,224. Published Sept. 5, 1950. Class 19.

534,730. LACQUERS, PAINT ENAMELS, WATERPROOFING PAINT COATINGS, ZINC OXIDES AND TALCS FOR USE IN PAINTS. J. LANDAU COMPANY, New York, N. Y.
Filed Sept. 3, 1949, Serial No. 584,461. Published Sept. 12, 1950. Class 16.

534,731. LADIES' FULL FASHIONED HOSIERY. M. K. M. HOSIERY MILLS, INC., Jamaica Plain, Boston, Mass.
Filed Sept. 8, 1949, Serial No. 584,587. Published Aug. 15, 1950. Class 39.

534,732. REGULAR GROOVED PHONOGRAPH RECORDS. CELTIC RECORD COMPANY, INC., New York, N. Y.
Filed Sept. 9, 1949, Serial No. 584,610. Published Sept. 19, 1950. Class 36.

534,733. EVAPORATED MILK. THE UNITED DAIRY CO., Barnesville, Ohio.
Filed Sept. 16, 1949, Serial No. 584,935. Published July 25, 1950. Class 46.

534,734. MECHANICALLY OPERATED WASHING RACKS FOR WASHING MOTOR VEHICLES. PHILLIPS PUMP & TANK COMPANY, Cincinnati, Ohio.
Filed Sept. 22, 1949, Serial No. 585,184. Published Sept. 19, 1950. Class 23.

534,735. DRILL POINTS, DRILL HOLDERS INCLUDING EJECTORS THEREFOR, STAR DRILLS, BULL POINTS, EXTENSION DRILL HEADS, AND COLD CHISELS. U. S. EXPANSION BOLT CO., York, Pa.
Filed Sept. 23, 1949, Serial No. 585,260. Published Aug. 15, 1950. Class 23.

534,736. ELECTRIC COILS, FANS, MOTORS, GENERATORS, REGULATORS, CONTROL PANELS, AND ELECTRICAL HARNESSES. KECO INDUSTRIES, INC., Cincinnati, Ohio.
Filed Sept. 28, 1949, Serial No. 585,450. Published Sept. 19, 1950. Class 21.

534,737. MACHINE TOOLS—NAMELY, TURRET LATHES, TAPPING MACHINES, ETC. THE WARNER & SWASEY COMPANY, Cleveland, Ohio.
Filed Sept. 28, 1949, Serial No. 585,465. Published Aug. 15, 1950. Class 23.

534,738. BABY PANTIES. TAMPAX INCORPORATED, New York, N. Y.
Filed Oct. 1, 1949, Serial No. 585,688. Published Sept. 12, 1950. Class 39.

534,739. OLIVE OIL. VITO A. D'APRILE, doing business under the name and style of V. A. D'Aprile & Co., Hartford, Conn.
Filed Oct. 4, 1949, Serial No. 585,746. Published July 25, 1950. Class 46.

534,740. WATERPROOF BABY PANTS. INTERNATIONAL LATEX CORPORATION, Dover, Del.
Filed Oct. 5, 1949, Serial No. 585,799. Published Sept. 12, 1950. Class 39.

534,741. METAL STORAGE RACKS. LOXIT SYSTEMS, INC., Chicago, Ill.
Filed Oct. 6, 1949, Serial No. 585,852. Published Sept. 5, 1950. Class 32.

534,742. HOSIERY. RUDIN & ROTH, New York, N. Y.
Filed Sept. 16, 1949, Serial No. 585,893. Published Sept. 19, 1950. Class 39.

534,743. HOSIERY. PRESTIGE, INC., New York, N. Y.
Filed Oct. 8, 1949, Serial No. 586,012. Published Sept. 19, 1950. Class 39.

534,744. LADIES', MISSES', AND CHILDREN'S DRESSES, BLOUSES, SKIRTS, SUITS, JACKETS, JUMPERS, PINAFORES, HATS, PETTICOATS AND SLIPS. L. WOHL & COMPANY, INC., New York, N. Y.
Filed Oct. 12, 1949, Serial No. 586,214. Published Sept. 12, 1950. Class 39.

534,745. CYLINDER BORE ROUGHING AND FINISHING TOOLS AND PARTS THEREFOR. BERD L. JOHNSON, doing business as Circle-Y Tool Co., Freeport, Ill.
Filed Oct. 13, 1949, Serial No. 586,247. Published Aug. 29, 1950. Class 23.

534,746. COMBINATION RADIO, TELEVISION RECEIVER, AND PHONOGRAPHS. ADMIRAL CORPORATION, Chicago, Ill.
Filed Oct. 14, 1949, Serial No. 586,261. Published Sept. 5, 1950. Class 21.

534,747. RADIO RECEIVING SETS AND PARTS THEREOF. KHOSROVSHAHI CO., INC., New York, N. Y.
Filed Oct. 14, 1949, Serial No. 586,286. Published Sept. 12, 1950. Class 21.

534,748. MILLINERY BRAIDS. ARMAND SCHWAB & CO., INC., New York, N. Y.
Filed Oct. 14, 1949, Serial No. 586,316. Published Aug. 15, 1950. Class 40.

534,749. HOUSE SLIPPERS. C. A. GROSVENOR SHOE CO., INC., Worcester, Mass.
Filed Oct. 17, 1949, Serial No. 586,411. Published Aug. 22, 1950. Class 39.

534,750. HOSIERY. SPURGEON HOSIERY CORPORATION, Philadelphia, Pa.
Filed Oct. 21, 1949, Serial No. 586,660. Published Sept. 19, 1950. Class 39.

534,751. MEN'S RAINCOATS, SUITS, SWEATERS, OUTER SHIRTS, UNDERSHIRTS AND SHORTS, ETC. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed Sept. 22, 1949, Serial No. 586,674. Published Sept. 12, 1950. Class 39.

534,752. CONVERTIBLE CRIB. WINK, INC., Shreveport, La.
Filed Oct. 24, 1949, Serial No. 586,776. Published Sept. 5, 1950. Class 32.

534,753. AIR COMPRESSORS. THE JAEGER MACHINE COMPANY, Columbus, Ohio.
Filed Nov. 1, 1949, Serial No. 587,110. Published Aug. 29, 1950. Class 23.

534,754. MICROPHONES AND EQUIPMENT THEREFOR—NAMELY, MICROPHONE BASES, MICROPHONE EXTENSIONS, AND VACUUM TUBES. ALTEC SERVICE CORPORATION, New York, N. Y.
Filed Nov. 2, 1949, Serial No. 587,167. Published Sept. 5, 1950. Class 21.

534,755. CONDENSERS OR CAPACITORS. AEROVOX CORPORATION, New Bedford, Mass.
Filed Nov. 4, 1949, Serial No. 587,300. Published Sept. 5, 1950. Class 21.

534,756. CAPACITORS OR CONDENSERS. AEROVOX CORPORATION, New Bedford, Mass.
Filed Nov. 4, 1949, Serial No. 587,307. Published Sept. 5, 1950. Class 21.

534,757. ELECTROLYTIC CONDENSERS OR CAPACITORS. AEROVOX CORPORATION, New Bedford, Mass.
Filed Nov. 4, 1949, Serial No. 587,308. Published Sept. 19, 1950. Class 21.

534,758. CHILDREN'S OUTER PANTS. HI-LINE COMPANY, INC., New York, N. Y.
Filed Nov. 4, 1949, Serial No. 587,330. Published Sept. 19, 1950. Class 39.

534,759. PAPER BOX FORMING MACHINES. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass.
Filed Nov. 5, 1949, Serial No. 587,385. Published Sept. 5, 1950. Class 23.

534,760. TELEVISION RECEIVING SETS AND COMBINATION TELEVISION AND RADIO RECEIVING SETS AND PHONOGRAPHS. GAROD ELECTRONICS CORPORATION, Brooklyn, N. Y.
Filed Nov. 8, 1949, Serial No. 587,473. Published Sept. 5, 1950. Class 21.

534,761. UNITARY HAND-OPERATED SPRAYERS, ALL ONE PIECE FOR DIFFUSING AND SPRAYING INSECTICIDES, ETC. H. D. HUDSON MANUFACTURING COMPANY, Chicago, Ill.
Filed Nov. 8, 1949, Serial No. 587,488. Published Sept. 5, 1950. Class 23.

534,762. FLASHLIGHTS. THE BRIDGEPORT METAL GOODS MANUFACTURING COMPANY, Bridgeport, Conn.
Filed Nov. 9, 1949, Serial No. 587,530. Published Sept. 5, 1950. Class 21.

534,763. CHILDREN'S PANTS. DONOVAN ENTERPRISES, INCORPORATED, Saugatuck, Conn.
Filed Nov. 10, 1949, Serial No. 587,629. Published Sept. 12, 1950. Class 39.

534,764. PLIERS, NIPPERS, WRENCHES, SNIPS, AND HAND OPERATED TOOLS HAVING RELATIVELY MOVABLE JAWS FOR CUTTING, GRIPPING, AND ENGAGING WORK. UTICA DROP FORGE & TOOL CORPORATION, Utica, N. Y.
Filed Nov. 10, 1949, Serial No. 587,664. Published Sept. 12, 1950. Class 23.

534,765. ELECTRIC HEATING AND COOKING APPLIANCES—NAMELY, ELECTRIC OVENS, ETC. HOTPOINT INC., Chicago, Ill.
Filed Nov. 12, 1949, Serial No. 587,679. Published Sept. 19, 1950. Class 21.

534,766. SPEED CHANGING TRANSMISSIONS FOR USE BETWEEN A PRIME MOVER AND A DRIVEN LOAD. PACIFIC CAR AND FOUNDRY COMPANY, Renton, Wash.
Filed Nov. 12, 1949, Serial No. 587,693. Published Sept. 5, 1950. Class 23.

534,767. CIGARS. JOHN R. BIEGLER, Inglewood, Calif.
Filed Nov. 14, 1949, Serial No. 587,706. Published Sept. 19, 1950. Class 17.

534,768. PLATE ASSEMBLY FOR USE IN AUTOMOBILE DISTRIBUTORS. LESLIE L. BRUNK, trading under the name of Renberles Products, Detroit, Mich.
Filed Nov. 18, 1949, Serial No. 588,001. Published Sept. 19, 1950. Class 21.

534,769. AUTOMOBILE TRAILER RESTAURANT. INDIAN TRAILER CORPORATION, Chicago, Ill.
Filed Nov. 18, 1949, Serial No. 588,030. Published Sept. 12, 1950. Class 19.

534,770. TELEVISION BUILT-IN ANTENNAE, SHIPPED SEPARATELY OR INSTALLED IN TELEVISION RECEIVING SETS, ETC. CAPEHART-FARNSWORTH CORPORATION, Fort Wayne, Ind.
Filed Nov. 19, 1949, Serial No. 588,078. Published Sept. 19, 1950. Class 21.

534,771. FLASHLIGHTS. THE BRIDGEPORT METAL GOODS MANUFACTURING COMPANY, Bridgeport, Conn.
Filed Nov. 10, 1949, Serial No. 588,256. Published Sept. 19, 1950. Class 21.

534,772. ELECTRIC LIGHTING FIXTURES FOR ADVERTISING DISPLAYS. KOLITE, INCORPORATED, Chicago, Ill.
Filed Nov. 29, 1949, Serial No. 588,497. Published Sept. 19, 1950. Class 21.

534,773. ELECTRICAL APPLIANCES—NAMELY, TOASTERS. MCGRAW ELECTRIC COMPANY, Elgin, Ill.
Filed Nov. 30, 1949, Serial No. 588,584. Published Sept. 5, 1950. Class 21.

534,774. ANTIHISTAMINE TABLETS. WHITEHALL PHARMACAL COMPANY, New York, N. Y.
Filed Nov. 30, 1949, Serial No. 588,613. Published Oct. 3, 1950. Class 18.

534,775. WOMEN'S AND MISSES' UNDERWEAR—NAMELY, BRIEFS, BLOOMERS, AND VESTS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Dec. 6, 1949, Serial No. 588,895. Published Sept. 12, 1950. Class 39.

534,776. AIRPLANES AND STRUCTURAL PARTS THEREFOR. LOCKHEED AIRCRAFT CORPORATION, Burbank, Calif.
Filed Dec. 7, 1949, Serial No. 588,960. Published Sept. 12, 1950. Class 19.

534,777. GIRDLES, CORSETS, AND BRASSIÈRES. VIVETTE FOUNDATIONS, INC., New York, N. Y.
Filed Dec. 8, 1949, Serial No. 589,056. Published Sept. 19, 1950. Class 39.

534,778. BICYCLES. ARNOLD, SCHWINN & CO., Chicago, Ill.
Filed Dec. 12, 1949, Serial No. 589,191. Published Sept. 19, 1950. Class 19.

534,779. CUTTER CHAIN, CUTTER CHAIN SPROCKETS, CUTTER-HEAD SHOES, CUTTER BARS, CUTTER BITS, AND CUTTER HEADS FOR MINING. THE CINCINNATI MINE MACHINERY CO., Cincinnati, Ohio.
Filed Dec. 23, 1949, Serial No. 589,833. Published Sept. 19, 1950. Class 23.

534,780. LADIES' DRESSES. MARY ELIZABETH FROCKS, New York, N. Y.
Filed Dec. 23, 1949, Serial No. 589,861. Published Sept. 12, 1950. Class 39.

534,781. WIND, DRAFT, AND WEATHER DEFLECTORS, FOR AUTOMOTIVE VEHICLES. BONNEN MANUFACTURING CORPORATION, Los Angeles, Calif.
Filed Dec. 27, 1949, Serial No. 589,952. Published Sept. 12, 1950. Class 19.

534,782. ELECTRICAL WIRES AND CABLES HAVING SUBSTANTIALLY NON-INFLAMMABLE INSULATING JACKETS. ANACONDA WIRE AND CABLE COMPANY, New York, N. Y.
Filed Dec. 31, 1949, Serial No. 590,213. Published Sept. 5, 1950. Class 21.

534,783. RADIO AND TELEVISION RECEIVING APPARATUS AND PARTS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed Dec. 31, 1949, Serial No. 590,244. Published Sept. 5, 1950. Class 21.

534,784. TELEVISION ANTENNA. GADGETS, INC., Dayton, Ohio.
Filed Jan. 3, 1950, Serial No. 590,266. Published Sept. 5, 1950. Class 21.

534,785. ELECTRIC HEATING PADS FOR GENERAL USE. SUNBEAM CORPORATION, Chicago, Ill.
Filed Jan. 7, 1950, Serial No. 590,528. Published Sept. 5, 1950. Class 21.

534,786. SEWING MACHINES AND PARTS THEREOF. THE TAILOR-BIRD SEWING MACHINE COMPANY LIMITED, London and Sandwich, England.
Filed Jan. 11, 1950, Serial No. 590,717. Published Sept. 19, 1950. Class 23.

534,787. CURTAIN STRETCHERS. WORLDSBEST INDUSTRIES, INC., Cudahy, Wis.
Filed Oct. 31, 1949, Serial No. 590,869. Published Sept. 19, 1950. Class 24.

534,788. TEXTILE FABRICS IN THE PIECE MADE OF COMBINATIONS OF NYLON AND RAYON YARNS. NATIVE LACES & TEXTILES, INCORPORATED, New York, N. Y.
Filed Feb. 7, 1950, Serial No. 592,092. Published Sept. 5, 1950. Class 42.

534,789. FABRICS IN THE PIECE COMPOSED OF SYNTHETIC FIBRES. DEERING MILLIKEN & CO., INC., New York, N. Y.
Filed Feb. 10, 1950, Serial No. 592,258. Published Sept. 5, 1950. Class 42.

534,790. FABRICS IN THE PIECE COMPOSED OF SYNTHETIC FIBRES. DEERING, MILLIKEN & CO., INC., New York, N. Y.
Filed Feb. 10, 1950, Serial No. 592,259. Published Sept. 5, 1950. Class 42.

534,791. CORDUROY PIECE GOODS. A. D. JUILLIARD & CO., INC., New York, N. Y.
Filed Feb. 10, 1950, Serial No. 592,264. Published Sept. 5, 1950. Class 42.

534,792. PLUG (CHEWING) TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed Feb. 15, 1950, Serial No. 592,465. Published Sept. 19, 1950. Class 17.

534,793. TEXTILE FABRICS IN THE PIECE MADE OF COMBINATIONS OF NYLON AND RAYON YARNS. NATIVE LACES & TEXTILES, INCORPORATED, New York, N. Y.
Filed Feb. 15, 1950, Serial No. 592,513. Published Sept. 5, 1950. Class 42.

534,794. TEXTILE FABRICS IN THE PIECE—NAMELY, CORDUROY. CONE EXPORT AND COMMISSION CO., INC., New York, N. Y.
Filed Feb. 18, 1950, Serial No. 592,700. Published Sept. 5, 1950. Class 42.

534,795. PLUG (CHEWING) TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed Feb. 20, 1950, Serial No. 592,745. Published Sept. 19, 1950. Class 17.

534,796. CHEWING TOBACCO. THE MID-WEST TOBACCO CO., Cincinnati, Ohio.
Filed Feb. 21, 1950, Serial No. 592,824. Published Sept. 19, 1950. Class 17.

534,797. FABRICS IN THE PIECE WOVEN OF NYLON YARN. DORGIN TEXTILE CORPORATION, New York, N. Y.
Filed Feb. 23, 1950, Serial No. 592,885. Published Sept. 5, 1950. Class 42.

534,798. SEWING MACHINES AND PARTS THEREOF. ALEX MORGULOFF, doing business as Hub Appliance Stores, Detroit, Mich.
Filed May 29, 1950, Serial No. 598,313. Published Sept. 5, 1950. Class 23.

Service Marks

534,799. AIRPLANE TRANSPORTATION AND SHIPPING OF PASSENGERS, PROPERTY, AND MAIL. BRANIFF AIRWAYS, INCORPORATED, Dallas, Tex.
Original filed, act of 1905, Oct. 28, 1946; amended to application under act of 1946, Principal Register, Jan. 26, 1948, Serial No. 511,593. Published Sept. 19, 1950. Class 105.

534,800. MEDICAL CLINICAL LABORATORY TESTING, SUCH AS URINALYSIS, ELECTROCARDIOGRAPH, BASAL METABOLISM, BLOOD COUNT, AND SIMILAR LABORATORY TESTING. A. A. JANSON BRANDLON, doing business as North Shore Clinical Laboratory, Evanston, Ill.
Filed Oct. 8, 1947, Serial No. 537,133. Published Sept. 19, 1950. Class 100.

534,801. COLOR HARMONY SERVICE FOR MANUFACTURERS, ETC. THE QUANTACOLOR COMPANY, New York, N. Y.
Filed Apr. 21, 1948, Serial No. 555,199. Published Sept. 19, 1950. Class 100.

534,802. ENGINEERING AND DEVELOPMENT SERVICES IN THE CHEMICAL, MECHANICAL, METALLURGICAL, AND CIVIL ENGINEERING FIELDS, ETC. UNIVERSAL OIL PRODUCTS COMPANY, Chicago, Ill.
Filed Oct. 13, 1948, Serial No. 566,960. Published Sept. 12, 1950. Class 100.

534,803. AGENCY SERVICE—NAMELY, MAKING RESERVATIONS FOR TRANSPORTATION ON PLANES, RESERVATIONS FOR SIGHTSEEING TOURS ON BUSES, AND RESERVATIONS FOR HOTEL ACCOMMODATIONS. PRACO TRAVEL SERVICE, INC., New York, N. Y.
Filed Jan. 22, 1949, Serial No. 572,585. Published Sept. 19, 1950. Class 105.

534,804. REPAIRING ELECTRICAL HOME APPLIANCES—NAMELY, WASHING MACHINES, VACUUM CLEANERS, IRONERS, SEWING MACHINES, HEATING AND COOKING STOVES AND RANGES, CULINARY DEVICES, AND HEATING AND VENTILATING APPARATUS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed Feb. 2, 1949, Serial No. 573,206. Published Sept. 12, 1950. Class 103.

534,805. ADVERTISING GOODS AND SERVICES OF OTHERS THROUGH THE MEDIUM OF A RADIO PROGRAM. STREET & SMITH PUBLICATIONS, INC., New York, N. Y.
Filed June 24, 1949, Serial No. 581,038. Published Sept. 12, 1950. Class 101.

534,806. LEASING OF DEVELOPED MOTION PICTURE FILMS. IDEAL PICTURES CORPORATION, Chicago, Ill.
Filed Aug. 6, 1949, Serial No. 583,131. Published Sept. 12, 1950. Class 107.

Certification Mark

534,807. ANTHRACITE COAL. ANTHRACITE COMMITTEE OF THE DEPARTMENT OF COMMERCE, COMMONWEALTH OF PENNSYLVANIA, Harrisburg, Pa.
Filed Mar. 30, 1948, Serial No. 553,333. Published Aug. 29, 1950. Class 1.

Collective Marks

534,808. FRESH APPLES. WASHINGTON SALES, INC., Wenatchee, Wash., now by change of name Nuchief Sales, Inc., a corporation of Washington.
Filed Dec. 1, 1947, Serial No. 542,809. Published July 5, 1949. Class 46.

534,809. GUARDING OF REAL AND PERSONAL PROPERTY. INTERNATIONAL GUARDS UNION OF AMERICA, Chicago, Ill.
Filed Oct. 13, 1948, Serial No. 566,941. Published Sept. 19, 1950. Class 100.

534,810. FRESH VEGETABLES. WAUCHULA CUCUMBER AND TOMATO GROWERS COOPERATIVE, Wauchula, Fla.
Filed Aug. 17, 1949, Serial No. 583,626. Published July 18, 1950. Class 46.

534,811. FRESH VEGETABLES. WAUCHULA CUCUMBER AND TOMATO GROWERS COOPERATIVE, Wauchula, Fla.
Filed Aug. 17, 1949, Serial No. 583,627. Published July 18, 1950. Class 46.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

534,812. (CLASS 38. PRINTS AND PUBLICATIONS.) RADIO MAGAZINES, INC., New York, N. Y. Original filed, act of 1905, Feb. 28, 1947; amended to application under act of 1946, Supplemental Register, Jan. 13, 1950, Serial No. 518,323.

AUDIO ENGINEERING

FOR MONTHLY PUBLICATIONS, THE SUBJECT MATTER OF WHICH IS OF INTEREST TO PERSONS INTERESTED IN RADIO OPERATION.
Claims use since Feb. 17, 1947.

534,813. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL FLOORCRAFT, INC., New York, N. Y. Original filed, act of 1905, May 2, 1947; amended to application under act of 1946, Supplemental Register, Feb. 3, 1950, Serial No. 521,729.

EVERYTHING IT TOUCHES TURNS TO BRIGHTNESS

FOR ELECTRIC FLOOR CLEANING, POLISHING AND FINISHING MACHINES.
Claims use since Apr. 17, 1947.

534,814. (CLASS 39. CLOTHING.) BERNARD SPORTSWEAR, INC., Boston, Mass. Original filed, act of 1905, May 22, 1947; amended to application under act of 1946, Supplemental Register, Mar. 3, 1950, Serial No. 522,955.

Lanford CASUALS

FOR LADIES' BLOUSES, JACKETS, SKIRTS, SUITS, COATS, SLACKS, SHORTS FOR OUTER WEAR AND DRESSES.
Claims use since Jan. 2, 1947.

534,815. (CLASS 38. PRINTS AND PUBLICATIONS.) ELIZABETH BLACKWELL, independent executrix of the estate of H. J. Blackwell, deceased, doing business as The World's Messenger Publishing Company, Fort Worth, Tex. Original filed, act of 1905, June 26, 1947; amended to application under act of 1946, Supplemental Register, May 6, 1950, Serial No. 524,855.

NEGRO ACHIEVEMENTS

FOR MAGAZINE PUBLISHED MONTHLY.
Claims use since Mar. 1, 1947.

534,816. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEAL-RITE CAULKING CO., INC., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Sept. 4, 1947; amended to application, Supplemental Register, Oct. 26, 1949, Serial No. 533,821.

CALK-O-PACK

FOR CAULKING GUNS, AND NOZZLES AND PARTS FOR SAME.
Claims use since February 1946.

534,817. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PAUL W. HAINKE, doing business as The Paul Hainke Mfg. Co., Hutchinson, Kans., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans., a corporation of Kansas. Original filed, act of 1946, Principal Register, Jan. 19, 1948; amended to application, Supplemental Register, Sept. 24, 1949, Serial No. 547,447.

THE HAINKE WHIRL-CUT

FOR LAWN MOWERS OF THE MANUAL AND POWER DRIVEN TYPE, SNOW PLOWS OF THE POWER DRIVEN TYPE, AND GARDEN TRACTORS.
Claims use since Apr. 1, 1946.

534,818. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN E. HUBER, doing business as Huber Engineering Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Apr. 2, 1948; amended to application, Supplemental Register, June 13, 1950, Serial No. 553,704.

travi-chair

FOR PORTABLE INFANT AND YOUTH CHAIRS.
Claims use since Dec. 1, 1946.

534,819. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SPORTING GOODS PUBLISHING COMPANY, St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 24, 1948; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 565,822.

The SPORTING GOODS DEALER'S NEWSLETTER

Applicant claims ownership of Registration No. 277,000.
FOR MONTHLY PUBLICATION FOR THE SPORTING GOODS TRADE.
Claims use since May 29, 1948.

534,820. (CLASS 39. CLOTHING.) GILBERT OF CALIFORNIA, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 18, 1949; amended to application, Supplemental Register, Sept. 1, 1950, Serial No. 572,400.

Gilbert of California

FOR MEN'S AND WOMEN'S CLOTHING, VIZ: SUITS, COATS, TROUSERS AND SLACKS.
Claims use since November 1945.

534,821. (CLASS 38. PRINTS AND PUBLICATIONS.) TECHNICAL PUBLISHING COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 21, 1949; amended to application, Supplemental Register, Mar. 9, 1950, Serial No. 572,531.

Plant Engineering

Applicant claims ownership of Registration No. 125,103.
FOR MONTHLY PUBLICATION.
Claims use since Jan. 21, 1948.

534,822. (CLASS 38. PRINTS AND PUBLICATIONS.) TECHNICAL PUBLISHING COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 21, 1949; amended to application, Supplemental Register, Mar. 9, 1950, Serial No. 572,532.

Power Generation

FOR MONTHLY PUBLICATION.
Claims use since Jan. 21, 1948.

534,823. (CLASS 38. PRINTS AND PUBLICATIONS.) HOFFMANN-LA ROCHE INC., Nutley, N. J. Filed Mar. 22, 1949, Serial No. 575,860.

Therapeia

FOR PERIODICAL IN THE NATURE OF A REVIEW OF DRUG THERAPY.
Claims use since Mar. 20, 1948.

534,824. (CLASS 39. CLOTHING.) CLAUDE HALL, JR., Glenwood Springs, Colo. Original filed, act of 1946, Principal Register, Mar. 25, 1949; amended to application, Supplemental Register, Aug. 12, 1950, Serial No. 576,056.

BUK TIE

FOR NECKTIES.
Claims use since Jan. 17, 1949.

534,825. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. N. STOLLWERCK, INC., Camden, N. J. Original filed, act of 1946, Principal Register, Apr. 26, 1949; amended to application, Supplemental Register, Apr. 6, 1950, Serial No. 577,751.

Stollwerck

FOR CHOCOLATE AND COCOA BUTTER SOLD TO THE CONFECTIONERY, BAKERY AND FOOD PRODUCTS TRADE.
Claims use since 1894.

534,826. (CLASS 39. CLOTHING.) INDEPENDENT RETAILERS SYNDICATE, INC., New York, N. Y. Original filed, act of 1946, Principal Register, May 18, 1949; amended to application, Supplemental Register, May 19, 1950, Serial No. 579,025.

Bryson

FOR MEN'S SHIRTS, T-SHIRTS, BRIEFS, POLO SHIRTS, TERRYCLOTH SHIRTS, ATHLETIC SHIRTS, PAJAMAS, HOSIERY AND NECKTIES.
Claims use since Feb. 23, 1949.

534,827. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TALK-A-PHONE CO., Chicago, Ill. Original filed, act of 1946, Principal Register, July 28, 1949; amended to application, Supplemental Register, Aug. 1, 1950, Serial No. 582,662.

"Does Everything"

FOR INTEROFFICE AND INTERPLANT TELEPHONIC COMMUNICATION APPARATUS CONSISTING OF SPEAKERS, AMPLIFIERS AND INTERCOMMUNICATING CIRCUITS THEREFOR.
Claims use since October 1948.

534,828. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TALK-A-PHONE CO., Chicago, Ill. Original filed, act of 1946, Principal Register, July 28, 1949; amended to application, Supplemental Register, Aug. 1, 1950, Serial No. 582,663.

Has Everything

FOR INTEROFFICE AND INTERPLANT TELEPHONIC COMMUNICATION APPARATUS CONSISTING OF SPEAKERS, AMPLIFIERS, AND INTERCOMMUNICATING CIRCUITS THEREFOR.
Claims use since Dec. 17, 1942.

534,829. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TITE-CAP MACHINE CO., INC., New York, N. Y. Filed Aug. 24, 1949, Serial No. 583,961.

TITE-CAP

The term "Cap" is disclaimed.
FOR MACHINES FOR APPLYING CLOSURES TO BOTTLES.
Claims use since Mar. 27, 1946.

534,830. (CLASS 38. PRINTS AND PUBLICATIONS.) JAY EMANUEL PUBLICATIONS, INC., Philadelphia, Pa. Filed Aug. 30, 1949, Serial No. 584,226.

STUDIO SURVEY

FOR SECTION OF PUBLICATION ISSUED EVERY FOURTH WEEK.
Claims use since Dec. 24, 1947.

534,831. (CLASS 38. PRINTS AND PUBLICATIONS.) HAIRE PUBLISHING COMPANY, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 14, 1949; amended to application, Supplemental Register, Sept. 27, 1950, Serial No. 584,812.

HANDBAGS and fashion ACCESSORIES

FOR PERIODICAL.
Claims use since Aug. 3, 1949.

534,832. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ART WIRE & STAMPING CO., Newark, N. J. Original filed, act of 1946, Principal Register, Sept. 16, 1949; amended to application, Supplemental Register, Oct. 11, 1950, Serial No. 584,888.

HI-LO

FOR DEEP SEA RIG FOR BOTTOM FISHING.
Claims use since Sept. 12, 1949.

534,833. (CLASS 38. PRINTS AND PUBLICATIONS.) THE IRVING-CLOUD PUBLISHING COMPANY, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 12, 1949; amended to application, Supplemental Register, Sept. 20, 1950, Serial No. 586,171.

HARDWARE · HOUSEWARES and SPORTING GOODS

FOR PERIODICAL PUBLICATION, THE SUBJECT OF WHICH RELATES TO NEW PRODUCTS, MARKET TRENDS, AND NEWS OF THOSE ENGAGED IN THE TRADE PERTAINING TO HARDWARE, HOUSEWARES, AND SPORTING GOODS.
Claims use since Sept. 13, 1949.

534,834. (CLASS 39. CLOTHING.) THE MANHATTAN SHIRT COMPANY, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 5, 1949; amended to application, Supplemental Register, Sept. 22, 1950, Serial No. 587,389.

VANCE

FOR MEN'S OUTER SHIRTS KNOWN IN THE TRADE AS DRESS SHIRTS OR NEGLIGEE SHIRTS.
Claims use since December 1946.

534,835. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) D. B. FULLER & CO., INC., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 19, 1949; amended to application, Supplemental Register, July 8, 1950, Serial No. 588,086.

DIP-N-DRY

FOR TEXTILE FABRICS IN THE PIECE, OF COTTON, RAYON, PROTEIN FIBRES, AND MIXTURES THEREOF.
Claims use since Dec. 1, 1948.

534,836. (CLASS 39. CLOTHING.) SOL SHERMAN, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 29, 1949; amended to application, Supplemental Register, Oct. 4, 1950, Serial No. 588,528.

TELAVIV

FOR BOWTIES.
Claims use since Mar. 29, 1949.

534,837. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FARGO BATTERY & MFG. CO., Fargo, N. Dak. Filed Dec. 5, 1949, Serial No. 588,792.

FARGO

FOR STORAGE BATTERIES.
Claims use since Oct. 10, 1947.

534,838. (CLASS 38. PRINTS AND PUBLICATIONS.) F. E. YOUNG & CO., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 13, 1949; amended to application, Supplemental Register, Oct. 9, 1950, Serial No. 589,291.

PHYSICIANS PHARMACAL SERVICE

FOR ANNUAL PUBLICATION WITH SUPPLEMENTS ISSUED FROM TIME TO TIME.
Claims use since Sept. 15, 1949.

534,839. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE AMERICAN PRODUCTS CO., New York, N. Y. Filed Dec. 15, 1949, Serial No. 589,368.

Safe-Lock

FOR TRIPODS, PROJECTOR AND CAMERA STANDS, CAMERA HANDLES, PHOTOGRAPHY PRINTING ROLLERS, AND LIGHTING EQUIPMENT FOR PHOTOGRAPHY PURPOSES—NAMELY, PHOTOFLOOD BULBS AND PHOTOFLOOD BULB UNITS FOR ATTACHMENT TO CAMERAS.
Claims use since February 1946.

534,840. (CLASS 39. CLOTHING.) ANDREW GELLER, INC., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Jan. 7, 1950; amended to application, Supplemental Register, Sept. 12, 1950, Serial No. 590,502.

As Young as You Are

FOR LADIES' AND MISSES' SHOES MADE OF LEATHER, FABRIC, RUBBER, WOOD, COMPOSITION MATERIALS, PLASTIC MATERIALS, AND COMBINATIONS THEREOF.
Claims use since Sept. 6, 1949.

534,841. (CLASS 38. PRINTS AND PUBLICATIONS.) NORCROSS, INC., New York, N. Y. Filed Dec. 22, 1949, Serial No. 590,865.

Roses by Norcross

Applicant claims ownership of Registration No. 414,959.
FOR GREETING CARDS, PRINTED GREETING FOLDERS, PRINTED SEALS AND PRINTED DECORATIVE TAGS.
Claims use since Apr. 26, 1948.

534,842. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR.) MAX MANDEL LACES, INC., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 20, 1950; amended to application, Supplemental Register, July 28, 1950, Serial No. 591,176.

FOR LACE FABRICS IN THE PIECE.
Claims use since Sept. 22, 1948.

534,843. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CLARY MULTIPLIER CORPORATION, San Gabriel, Calif. Filed Mar. 11, 1950, Serial No. 593,786.

CLARY

FOR ELECTRICAL CONNECTOR CORDS.
Claims use since Apr. 21, 1948.

TRADE-MARK REGISTRATIONS RENEWED

35,212. PEACH BLOSSOMS. Registered Oct. 9, 1900. Fobes, Hayward & Company, Incorporated, Boston, Mass. Re-renewed Oct. 9, 1950, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts. CONFECTIONERY. Class 46.

80,685. "HICKORY" AND DESIGN. Registered Jan. 17, 1911. A. Stein & Company, Chicago, Ill., a corporation of Illinois. Re-renewed Jan. 17, 1951. HOSE-SUPPORTERS. Class 39.

80,824. BARBOUR'S. Registered Feb. 7, 1911. The Barbour Bros. Co. Re-renewed Feb. 7, 1951, to The Linen Thread Co., Inc., Paterson, N. J., a corporation of Delaware. LINEN THREAD. Class 43.

263,626. GENTRY'S DEHYDRATED PIMENTO FLAKES. Registered Nov. 5, 1929. Mrs. C. B. Gentry, doing business as C. B. Gentry Chili Powder Co. Renewed Nov. 5, 1949 (Supplemental Register), to Gentry, Incorporated, Los Angeles, Calif., a corporation of California. PIMENTO FLAKES. Class 46.

266,605. "DUROL" ETC. AND DESIGN. Registered Jan. 28, 1930. Carl Unbekannt, Hoboken, N. J. Renewed Jan. 28, 1950, to Marie Unbekannt, New Paltz, N. Y. STAGING INK FOR PHOTO-ENGRAVERS. Class 11.

268,553. DUETTE. Registered Mar. 18, 1930. Cohn & Rosenberger, Inc., New York, N. Y. Renewed Mar. 18, 1950, to Coro, Inc., Providence, R. I., and New York, N. Y., a corporation of New York. FINGER RINGS, NECKLACES, BRACELETS, EARRINGS, ETC. Class 28.

270,388. APEX. Registered May 6, 1930. Goodyear Rubber Company. Renewed May 6, 1950, to Goodyear Rubber Company, San Francisco, Calif., a firm. RUBBER BELTING AND HOSE. Class 35.

270,455. REPRESENTATION OF FIG BAR LINED FOR BROWN. Registered May 6, 1930. Wilbur Glenn Voliva, doing business as Zion Baking Industry. Renewed May 6, 1950, to Zion Industries, Inc., Zion, Ill., a corporation of Delaware. FIG BARS. Class 46.

271,090. "TEX JOY" AND DRAWING. Registered May 27, 1930. Texas Coffee Company, Incorporated. Renewed May 27, 1950, to Texas Coffee Company, Beaumont, Tex., a partnership. COFFEE. Class 46.

271,327. MELROSE. Registered June 3, 1930. James Van Dyk Company, New York, N. Y. Renewed June 3, 1950, to James Van Dyk Co. Inc., Brooklyn, N. Y., a corporation of New York. BUTTER AND EGGS. Class 46.

272,109. "HARTSUCH'S" ETC. AND DESIGN LINED FOR BLUE AND YELLOW. Registered July 1, 1930. Earl R. Hartsuch, doing business as Hartsuch. Renewed July 1, 1950, to Lillian E. Hartsuch, Chicago, Ill. SALAD DRESSING. Class 46.

272,405. "HEMCO RUNNING PANTS" ETC. AND DESIGN. Registered July 8, 1930. Julius Hendel, doing business as Hendel Manufacturing Company (not incorporated), New London, Conn. Renewed July 8, 1950. ATHLETIC RUNNING PANTS FOR MEN. Class 39.

273,393. PARAMAX. Registered Aug. 5, 1930. The Pharis Tire and Rubber Company, Newark, Ohio. Renewed Aug. 5, 1950, to Carlisle Corporation, Carlisle, Pa., a corporation of Delaware. MOTOR-VEHICLE TIRES, CASINGS, AND TUBES MADE OF RUBBER OR RUBBER AND FABRIC. Class 35.

273,673. "STANDARD" AND DRAWING. Registered Aug. 5, 1930. The Standard Statistics Company, Inc. Renewed Aug. 5, 1950, to Standard & Poor's Corporation, New York, N. Y., a corporation of New York. PERIODICAL PUBLICATION. Class 38.

274,782. "AMPRO" ETC. AND DESIGN. Registered Sept. 9, 1930. Ampro Corporation, Chicago, Ill., a corporation of Illinois. Renewed Sept. 9, 1950. CAMERAS, MOTION-PICTURE CAMERAS, MOTION-PICTURE PROJECTORS AND SOUND PICTURES. Class 26.

274,812. COMET. Registered Sept. 9, 1930. McLaren-Consolidated Cone Corporation, Dayton, Ohio. Renewed Sept. 9, 1950, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. ICE CREAM CONES. Class 46.

274,862. "BUFFALO" ETC. AND DESIGN. Registered Sept. 9, 1930. Campbell Coal Company, Atlanta, Ga., a corporation of Georgia. Renewed Sept. 9, 1950. COAL. Class 1.

275,239. INVAREL. Registered Sept. 16, 1930. Hamilton Watch Company, Lancaster, Pa., a corporation of Pennsylvania. Renewed Sept. 16, 1950. WATCHES AND HAIRSPRINGS. Class 27.

275,240. ELINVAR. Registered Sept. 16, 1930. Hamilton Watch Company, Lancaster, Pa., a corporation of Pennsylvania. Renewed Sept. 16, 1950. WATCHES. Class 27.

275,362. REPRESENTATION OF SILHOUETTE AND PACKAGE DESIGN LINED FOR PINK, WHITE, BLUE, BLACK, AND BEIGE. Registered Sept. 23, 1930. The Armand Company, Des Moines, Iowa, a corporation of Iowa. Renewed Sept. 23, 1950. CLEANSING CREAM AND COLD CREAM. Class 51.

275,363. REPRESENTATION OF SILHOUETTE AND PACKAGE DESIGN LINED FOR PINK, WHITE, BLUE, BLACK, AND BEIGE. Registered Sept. 23, 1930. The Armand Company, Des Moines, Iowa, a corporation of Iowa. Renewed Sept. 23, 1950. CLEANSING CREAM, COLD CREAM, AND TOILET POWDER. Class 51.

275,592. HUNNY-BEL. Registered Sept. 23, 1930. New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts. Renewed Sept. 23, 1950. CANDY. Class 46.

275,704. "STRANGE AS IT SEEMS." Registered Sept. 30, 1930. John Hix, Washington, D. C. Renewed Sept. 30, 1950, to Elsie Hix, Los Angeles, Calif. CARTOONS AND STATISTICAL ARTICLES. Class 38.

276,141. MASTER. Registered Oct. 7, 1930. Jefferson Union Company, Inc., New York and Lockport, N. Y., and Lexington, Mass. Renewed Oct. 7, 1950, to Jefferson Union Company, Inc., Lexington, Mass., a corporation of Massachusetts. PIPE UNIONS. Class 13.

276,801. MOUNTAIN HOME. Registered Oct. 28, 1930. Meyer L. Friedlen. Renewed Oct. 28, 1950, to Madeline A. Friedlen, doing business as Mountain Home Smart Apparel, Chicago, Ill. KNITTED SWEATERS FOR MEN, WOMEN, MISSES, AND CHILDREN, BATHING SUITS, ETC. Class 39.

276,979. "CAMPARI" ETC. AND DESIGN. Registered Nov. 4, 1930. Davide Campari. Renewed Nov. 4, 1950, to Davide Campari-Milano, Milan, Italy, a societa per Azioni organized under the laws of the Republic of Italy. ALCOHOLIC CORDIAL. Class 49.

277,508. CALIFORNIA PADRES. Registered Nov. 11, 1930. Vai Bros., doing business as California Medicinal Wine Co. Renewed Nov. 11, 1950, to Padre Vineyard Company, Los Angeles, Calif., a corporation of California. WINE, CHAMPAGNE. Class 47.

277,719. "ANGELIC" AND DRAWING. Registered Nov. 25, 1930. Charles Banks Stout, doing business as Washington Flour Mill, Washington, Mo. Renewed Nov. 25, 1950. WHEAT FLOUR. Class 46.

277,813. ΔO. (GREEK LETTERS DELTA OMICRON). Registered Nov. 25, 1930. Delta Omicron, Cincinnati, Ohio. Renewed Nov. 25, 1950, to Delta Omicron National Professional Music Fraternity, Cuyahoga Falls, Ohio, a corporation of Ohio. Pledge pins, badges, and pendants, all made of or plated with precious metal. Class 28.

277,903. YALE. Registered Dec. 2, 1930. The Yale and Towne Mfg. Co., Stamford, Conn. Renewed Dec. 2, 1950, to The Yale & Towne Manufacturing Co., New York, N. Y., a corporation of Connecticut. DOOR FASTS, LAVATORY LATCHES, GATE LATCHES, TRANSOM CATCHES, CREMONE BOLTS, ETC. Class 25.

277,990. YALE. Registered Dec. 2, 1930. The Yale and Towne Mfg. Co., Stamford, Conn. Renewed Dec. 2, 1950, to The Yale & Towne Manufacturing Co., New York, N. Y., a corporation of Connecticut. LETTER BOXES AND POST OFFICE BOXES. Class 2.

278,014. "REGINA" AND DRAWING. Registered Dec. 2, 1930. Charles Banks Stout, doing business as Washington Flour Mill, Washington, Mo. Renewed Dec. 2, 1950. WHEAT FLOUR. Class 46.

278,427. "DIXSEPT" AND DESIGN. Registered Dec. 16, 1930. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Renewed Dec. 16, 1950. TOILET PREPARATIONS COMPRISING PERFUMES, FACE POWDER, AND TOILET WATERS. Class 51.

278,636. MAYDOWN. Registered Dec. 23, 1930. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Renewed Dec. 23, 1950. FLANNELETTE DIAPERS. Class 39.

278,658. DUALWORTH. Registered Dec. 23, 1930. J. Schoeneman, Incorporated, Baltimore, Md. Renewed Dec. 23, 1950, to The May Department Stores Company, St. Louis, Mo., a corporation of New York. COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOPCOATS, AND OVERCOATS FOR MEN, YOUTHS AND BOYS. Class 39.

279,224. "DON'T BATHE IN A TENT". Registered Jan. 13, 1931. Louis H. Lehman, doing business as The Lehman Sprayshield Company. Renewed Jan. 13, 1951, to Lehman Sprayshield Company, Philadelphia, Pa., a corporation of Pennsylvania. GLASS SHOWER-STALL DOORS AND SHOWER-BATH SHIELDS. Class 13.

279,567. "BETSY PERKINS STRAWBRIDGE & CLOTHIER" AND DESIGN. Registered Jan. 20, 1931. Strawbridge & Clothier, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Jan. 20, 1951. WOMEN'S SHOES MADE OF LEATHER, RUBBER, CANVAS, AND/OR ANY COMBINATIONS THEREOF. Class 39.

279,809. "LILLY" LINED FOR RED, AND DESIGN. Registered Jan. 27, 1931. Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana. Renewed Jan. 27, 1951. CHEMICAL, PHARMACEUTICAL, AND BIOLOGICAL PRODUCTS. Class 18.

279,996. HYDROFOL. Registered Feb. 10, 1931. The Wyandotte Oil & Fat Company. Renewed Feb. 10, 1951, to Archer-Daniels-Midland Company, Cleveland, Ohio, a corporation of Delaware. HYDROGENATED FATS INTENDED AS AN INGREDIENT OR EMULSIFYING BASE FOR LUBRICANTS. Class 15.

280,236. "MEDART" AND DESIGN. Registered Feb. 10, 1931. Fred Medart Manufacturing Co. Renewed Feb. 10, 1951, to The Medart Company, St. Louis, Mo., a corporation of Missouri. GYMNASIUM AND PLAYGROUND APPARATUS — NAMELY, ABDOMINAL MATS, ARM MACHINES, BACK STANDS, BALANCE BOARDS, BALL ROPES; ETC. Class 22.

280,251. "PALNUTS". Registered Feb. 10, 1931. The Palnut Company, Irvington, N. J., a corporation of New Jersey. Renewed Feb. 10, 1951. NUT LOCKS. Class 13.

280,261. "PALNUT" AND DRAWING. Registered Feb. 10, 1931. The Palnut Company, Irvington, N. J., a corporation of New Jersey. Renewed Feb. 10, 1951. NUT LOCKS. Class 13.

280,320. WILLOW. Registered Feb. 10, 1931. H. R. Mallinson & Company, Inc. Renewed Feb. 10, 1951, to National Mallinson Fabrics Corporation, New York, N. Y., a corporation of Delaware. SILK PIECE GOODS. Class 42.

280,326. "MEDART" AND DESIGN. Registered Feb. 10, 1931. Fred Medart Manufacturing Co. Renewed Feb. 10, 1951, to The Medart Company, St. Louis, Mo., a corporation of Missouri. STEEL LOCKERS, STEEL SHELVING, STEEL CABINETS, ETC. Class 32.

280,711. "LILANTHÈME". Registered Feb. 24, 1931. Societe Anonyme M. Naef & Cie., Geneva, Switzerland. Renewed Feb. 24, 1951, to Firmenich & Co., New York, N. Y., a co-partnership. ARTIFICIAL AND SYNTHETICAL PERFUMES, ESSENTIAL OILS. Class 51.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

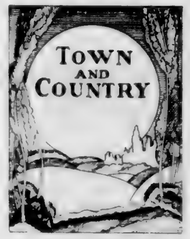
283,776. PANTHESIN. Registered June 9, 1931. Sandoz Chemical Works, Inc., New York, N. Y. MEDICINAL PREPARATIONS HAVING HYPNOTIC PROPERTIES. Class 6. The drawing is hereby amended to appear as follows:

PANTHESINE

310,331. "GREAT BEAR" AND DESIGN. Registered Feb. 20, 1934. Great Bear Spring Company, New York, N. Y. ICE COOLED OR ELECTRICALLY OPERATED WATER COOLERS. Class 31. The drawing is hereby amended to appear as follows:

GREAT BEAR

513,373. "TOWN AND COUNTRY" AND DESIGN. Registered Aug. 9, 1949. American Beverage Corporation, Brooklyn, N. Y. CARBONATED BEVERAGES—NAMELY, GINGERALE AND LIME RICKEY. Class 45. The drawing is hereby amended to appear as follows:



530,294. YOUNGSTOWN. Registered Sept. 5, 1950. The Youngstown Sheet and Tube Company, Youngstown, Ohio. CONDUIT FOR ELECTRIC WIRING. Class 21. Corrected as follows: In the statement, line 1, name of registrant, for "Younstown" read *Youngstown*.

530,556. EXTELITE. Registered Sept. 12, 1950. Agricide Laboratories, Inc., Los Angeles, Calif., now by change of name Agrashell, Inc. SYNTHETIC RESIN COMPOSITIONS AND SYNTHETIC RESIN COMPOSITION EXTENDERS. Class 6. Corrected as follows: In the certificate, line 3, after the words and comma "a corporation of Delaware," insert *now by change of name Agrashell, Inc.*, and line 13, for "Agricide Laboratories, Inc." read *Agrashell, Inc.*; in the heading to the printed statement, line 1, after "Calif." insert , *now by change of name Agrashell, Inc.*

531,135. "ELCO ROCKFORD" ON A SCREWHEAD DESIGN. Registered Sept. 26, 1950. Elco Tool and Screw Corporation, Rockford, Ill. CATALOGS AND CIRCULARS PERTAINING TO SCREW MACHINE PRODUCTS. Class 38. Corrected as follows: In the statement, second column, lines 11 and 12, for "November 25, 1945" read *November 24, 1945*.

532,083. CARCO. Registered Oct. 17, 1950. Pacific Car and Foundry Company, Renton, Wash. HEAVY MACHINERY AND PARTS THEREOF INCLUDING: TRACTOR WINCHES; TRACTOR HOISTS; LOGGING ARCHES, ETC. Class 23. Corrected as follows: On the page containing the statement strike out the mark and insert instead the following—

CARCO

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 2

RECEPTACLES

Reg. No. 103,303. Registered Mar. 30, 1915. THE VORTEX MFG. CO., Chicago, Ill. Republished by Dixie Cup Company, Easton, Pa., a corporation of Delaware.

Vortex

FOR PAPER DRINKING CUPS FOR USE AT SODA WATER FOUNTAINS.
Claims use since Sept. 15, 1914.

Reg. No. 438,535. Registered Apr. 27, 1948. KNAPP-MONARCH COMPANY, St. Louis, Mo., a corporation of Delaware. Republished by registrant.

CHARGET

FOR SYPHON BOTTLES.
Claims use since Dec. 27, 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 438,920. Registered May 18, 1948. KNAPP-MONARCH COMPANY, St. Louis, Mo., a corporation of Delaware. Republished by registrant.

SPRAYLETS

FOR SYPHON BULBS OR CAPSULES CONTAINING COMPRESSED OR LIQUEFIED GAS FOR CARBONATING AND/OR AERATING WATER, CREAM, OR SIMILAR SUBSTANCES.
Claims use since Dec. 27, 1946.

Reg. No. 438,921. Registered May 18, 1948. KNAPP-MONARCH COMPANY, St. Louis, Mo., a corporation of Delaware. Republished by registrant.

CHARGETS

FOR SYPHON BULBS OR CAPSULES CONTAINING COMPRESSED OR LIQUEFIED GAS FOR CARBONATING AND/OR AERATING WATER, CREAM, OR SIMILAR SUBSTANCES.
Claims use since Dec. 27, 1946.

Reg. No. 438,922. Registered May 18, 1948. KNAPP-MONARCH COMPANY, St. Louis, Mo., a corporation of Delaware. Republished by registrant.

SPRAYETS

FOR SYPHON BULBS OR CAPSULES CONTAINING COMPRESSED OR LIQUEFIED GAS FOR CARBONATING AND/OR AERATING WATER, CREAM, OR SIMILAR SUBSTANCES.
Claims use since Dec. 27, 1946.

Reg. No. 443,764. Registered Feb. 21, 1950. KNAPP-MONARCH COMPANY, St. Louis, Mo., assignor to Knapp-Monarch Company. Republished by Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware.

Magik Mist

The word "Mist" is disclaimed apart from the mark as shown.
FOR FILLED INSECTICIDE DISPENSERS WITH CONTROL VALVES.
Claims use since Jan. 21, 1946.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 411,337. Registered Jan. 16, 1945. THE MINE AND SMELTER SUPPLY COMPANY, Denver, Colo., a corporation of Colorado. Republished by registrant.

MASSCO

FOR HOSE PINCH VALVES AND PARTS THEREFOR.
Claims use since Oct. 28, 1939.

CLASS 15

OILS AND GREASES

Reg. No. 443,790. Registered Feb. 28, 1950. FILMITE OIL CORPORATION, Butler, Wis., a corporation of Wisconsin. Republished by registrant.

FILMITE

FOR LUBRICATING OILS, LUBRICATING GREASES, FILM STRENGTH OILINESS ADDITIVE OILS, PENETRATING OIL, PLUMBERS LARD OIL, DIE CASTING OIL, CUTTING OIL, CUTTING OIL CONCENTRATE.
Claims use since June 1, 1934.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 60,314. Registered Feb. 5, 1907. THE NEW YORK CONSOLIDATED CARD COMPANY, New York, N. Y. Republished by The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio.

9 2

FOR PLAYING CARDS.
Claims use since the year 1892.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 276,149. Registered Oct. 7, 1930. THE BLACK & DECKER MANUFACTURING COMPANY, Towson, Md., a corporation of Maryland. Republished by registrant.

BLACK & DECKER

The words "Portable Electric Tools" and "With the Piston Grip and Trigger Switch" and the representation of the hand grip trigger are disclaimed apart from the mark as shown.
FOR PORTABLE BORING-DRILLS, ATTACHMENTS FOR SAME AND PARTS THEREOF; PORTABLE VALVE-GRINDERS; PORTABLE SCREW, BOLT AND NUT DRIVERS; AIR PUMPS AND COMPRESSORS, PORTABLE AUGERS AND POST-GRINDERS, BENCH AND FLOOR GRINDERS, AND AERIAL GRINDERS.
Claims use since Apr. 18, 1930.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 275,965. Registered Oct. 7, 1930. INTERNATIONAL PROJECTOR CORPORATION, New York, N. Y., a corporation of Delaware. Republished by registrant, present address Bloomfield, N. J.

Super Simplex

FOR MOTION-PICTURE PROJECTION MACHINES AND PARTS THEREOF.
Claims use since about Sept. 9, 1929.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Reg. No. 215,905. Registered July 27, 1926. GIRL SCOUTS, New York, N. Y. Republished by Girl Scouts of the United States of America, New York, N. Y., a corporation of the United States of America.

GIRL GS SCOUTS

FOR PINS—NAMELY, STICK PINS, LAPEL PINS, CLASP PINS, AND INSIGNIA PINS, FINGER RINGS, TOILET-KIT MIRRORS, BADGES, AND THIMBLES, ALL MADE OF OR PLATED WITH PRECIOUS METAL.
Claims use since November 1924.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Reg. No. 215,321. Registered July 13, 1926. GIRL SCOUTS, New York, N. Y. Republished by Girl Scouts of the United States of America, New York, N. Y., a corporation of the United States of America.

GIRL GS SCOUTS

FOR WHISTLES.
Claims use since November 1922.

CLASS 37

PAPER AND STATIONERY

Reg. No. 70,598. Registered Sept. 15, 1908. EAGLE PENCIL COMPANY, New York, N. Y. Republished by Eagle Pencil Company, New York, N. Y., a corporation of Delaware.

AUTOMATIC

FOR LEAD PENCILS.
Claims use since 1879.

Reg. No. 78,317. Registered June 7, 1910. EAGLE PENCIL COMPANY, New York, N. Y. Republished by Eagle Pencil Company, New York, N. Y., a corporation of Delaware.

Turquois

FOR LEAD PENCILS.
Claims use since 1898.

CLASS 39

CLOTHING

Reg. No. 271,381. Registered June 3, 1930. GOLDEN DAWN HOSIERY SHOPS, INC., Wilmington, Del., a corporation of Delaware. Republished by registrant, present address Philadelphia, Pa.

FOR MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND UNDERWEAR MADE OF KNITTED AND TEXTILE FABRICS.
Claims use since July 20, 1928.

Reg. No. 409,599. Registered Oct. 10, 1944. VALCORT HOSIERY CORPORATION, New York, N. Y., a corporation of New York. Republished by registrant.

The word "Stocking" is disclaimed apart from the mark as shown.
FOR LADIES' AND MISSES' HOSIERY.
Claims use since January 1944.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 144,937. Registered July 19, 1921. SMITH-FRANK PACKING CO., Sacramento, Calif. Republished by Frank M. Wilson Company, Stockton, Calif., a firm.

GRILL

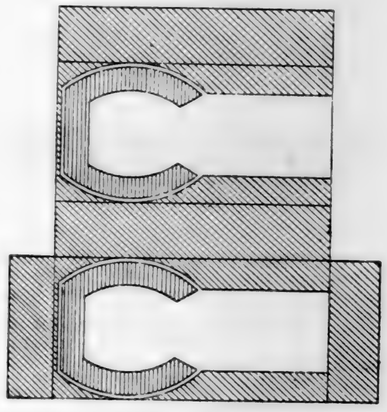
FOR CANNED FRUITS.
Claims use since November 1919.

Reg. No. 189,714. Registered Sept. 23, 1924. CALIFORNIA CO-OPERATIVE CANNERIES, San Francisco, Calif. Republished by Frank M. Wilson Company, Stockton, Calif., a firm.

CALIFORNIA'S GOLDEN

FOR CANNED FRUITS AND VEGETABLES.
Claims use since Dec. 18, 1923.

Reg. No. 376,475. Registered Mar. 26, 1940. AMERICAN CHICLE COMPANY, Long Island City, N. Y., a corporation of New Jersey. Republished by registrant.



The lining on the C-shaped figure is for red, the lining on the bands is for shading only. The representation of a carton is disclaimed apart from the mark as shown.
FOR CHEWING GUM.
Claims use since Dec. 16, 1938.

Reg. No. 378,152. Registered May 28, 1940. FRANK M. WILSON COMPANY, San Francisco, Calif., a firm. Republished by registrant, present address, Stockton, Calif.

FOR CANNED FRUITS AND CANNED VEGETABLES.
Claims use since 1927.

Reg. No. 444,167. Registered Aug. 22, 1950. BEWLEY MILLS, Fort Worth, Tex., a corporation of Texas. Republished by registrant.

BEWLEY'S

BEST

FOR WHEAT FLOUR.
Claims use since April 1, 1882.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 301,726. Registered Mar. 14, 1933. JOSEPH E. SEAGRAM & SONS LIMITED, Waterloo, Ontario, Canada. Republished by Joseph E. Seagram & Sons, Inc., New York, N. Y., a corporation of Indiana.

Seagram

FOR WHISKEY AND POTABLE SPIRITS.
Claims use since the year 1857.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 215,581. Registered July 20, 1926. GIRL SCOUTS, New York, N. Y. Republished by Girl Scouts of the United States of America, New York, N. Y., a corporation of the United States of America.

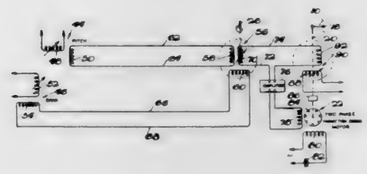
GIRL SCOUTS

FOR BADGES OF NONPRECIOUS METALS; UNIFORM MAKE-UP SETS, CONSISTING OF PATTERNS, MATERIAL, THREAD, AND BUTTONS; LINE PLATES, ELECTROTYPES, HALF TONES, FLAG CASES, FLAGSTAFFS, NATIONAL FLAGS, EMBLEM FLAGS, TROOP FLAGS AND PENNANTS.
Claims use since November 1924.

REISSUES

DECEMBER 12, 1950

23,303
LINE OF SIGHT STABILIZATION
Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Original No. 2,513,738, dated July 4, 1950, Serial No. 582,774, March 14, 1945. Application for reissue September 29, 1950, Serial No. 187,631
18 Claims. (Cl. 318—19)



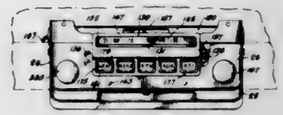
18. Apparatus for stabilizing in pitch and roll a movable controlled device of the type adapted to be mounted upon a mobile vehicle subject to pitch and roll movement, means comprising a three-degree-of-freedom gyroscope providing signals proportional to the pitch and roll movement of the vehicle, a servomotor for moving said device to stabilize it in pitch and roll, and means responsive to said pitch and roll signals for energizing said motor.

23,304
MANUFACTURE OF COPPER PHTHALOCYANINE DYESTUFFS
Grady M. O'Neal, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Original No. 2,410,301, dated October 29, 1946, Serial No. 502,506, September 15, 1943. Application for reissue October 29, 1947, Serial No. 782,960
40 Claims. (Cl. 260—314.5)

1. The method of making a copper phthalocyanine dyestuff which comprises reacting together at a temperature in the range from 135° to 300° C., and in proportions sufficient to produce copper phthalocyanine, biuret, an ortho compound having the formula: $R(COONH_4)_2$, minus xH_2O, minus yNH_3, and a copper-yielding compound, in the presence of a catalyst for the reaction, said formula being such that x is an integer varying from 0 through 3, y is an integer varying from 0 through 2, both while $x+y$ is not more than 3, and R is a benzene nucleus selected from the group consisting of the unsubstituted benzene nucleus and substituted benzene nuclei.

23,305
AUTOMATIC TUNER
Bertram A. Schwarz, Kokomo, Ind., and Ludwig J. Fichter, Rockford, Ill., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original No. 2,342,902, dated February 29, 1944, Serial No. 288,201, August 3, 1939. Application for reissue April 22, 1950, Serial No. 157,618
19 Claims. (Cl. 74—10.39)

1. In an automatic indexing and tuning mechanism for radio communication devices comprising, a control shaft, reciprocable means operatively connected to the control shaft, actuating means for said reciprocable means to rotate said control shaft in either direction to a predetermined angular position, rotatable means for rotating said control shaft to any one of a plurality of angular positions, clutch means normally connecting said rotatable means to said control shaft and means for disconnecting said clutch means, said last named means including control means engageable by and operable by said actuating



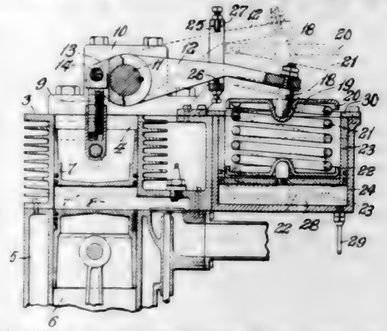
23,306
PRINTING AND DYEING COMPOSITIONS AND PROCESSES
Frithjof Zwilgmeyer, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original No. 2,099,091, dated November 16, 1937, Serial No. 44,329, October 10, 1935. Application for reissue January 19, 1949, Serial No. 71,770
8 Claims. (Cl. 8—45)

21. The method of making a dyeing which comprises making a stable neutral to basic mixture containing 1-amino-7-naphthol and a diazoimino compound formed by reacting a stabilizer which forms water-soluble diazoimino compounds with one of the group consisting of diazotized 4-chloro-2-amino-anisole and tetrazotized dianisidine; printing the material to be dyed with said com-

position; and then acting thereon with acid vapor until the color is formed; said diazoimino compounds being formed by reacting one mole of the stabilizer with each mole of said diazotized 4-chloro-2-amino anisole and two moles of the stabilizer with each mole of said tetrazotized dianisidine.

23,307
VARIABLE COMPRESSION RATIO INTERNAL-COMBUSTION ENGINE
Herbert J. Kratzer, St. Louis, Mo.
Original No. 2,399,276, dated April 30, 1946, Serial No. 498,293, August 12, 1943. Application for reissue March 5, 1947, Serial No. 732,404
13 Claims. (Cl. 123—78)

13. An internal combustion engine having a cylinder and a communicating firing chamber, a movable head in said firing chamber, a lever connected to said head, a cylinder having an oil pressure supply source, a piston in said oil cylinder adapted to be actuated by the oil pressure therein, a coil spring interposed between said lever and



said piston, and a piston stop at the outer end of said oil cylinder.

PLANT PATENTS

GRANTED DECEMBER 12, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

997
ROSE PLANT
Esther Gladys Fisher, Woburn, Mass., assignor to Arnold-Fisher Company, Woburn, Mass.
Application November 22, 1949, Serial No. 128,746
1 Claim. (Cl. 47—61)

The new and improved variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its especial adaptability to garden culture; its strong, tall growth producing heavy canes and shoots; its prolific and constant production of blooms throughout the summer; and the intense fragrance, globular form, excellent keeping quality and deep rose red color of its flowers.

998
ROSE PLANT
Esther Gladys Fisher, Woburn, Mass., assignor to Arnold-Fisher Company, Woburn, Mass.
Application December 29, 1949, Serial No. 135,659
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its adaptability to garden culture, its exceedingly great strength and vigor of growth; its relative hardiness and disease resistance; its long, sturdy canes and flower stems; the strong, wiry neck or peduncle of the flower; and the high-centered form and rose pink color of its flower, which lasts unusually well.

999
ROSE PLANT
Esther Gladys Fisher, Woburn, Mass., assignor to Arnold-Fisher Company, Woburn, Mass.
Application December 29, 1949, Serial No. 135,660
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by the delicate though strong structure of the stems; its continuous production of flowers throughout the year; the prominent veining of its foliage; the high-centered form of the flower which in the cool season usually opens to cupshape with fluted petals; and the essentially lavender color of its bud and flower.

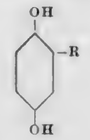
PATENTS

GRANTED DECEMBER 12, 1950

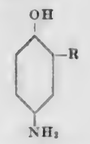
2,533,203
PREPARATION OF C-ALKYL HYDROQUINONES AND C-ALKYL p-AMINOPHENOLS
Frederic R. Bean, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application July 16, 1948, Serial No. 39,180
13 Claims. (Cl. 260—580)

1. A process for preparing an alkyl substituted hydroquinone comprising reducing a nitrophenyl compound containing in the para position a primary alkyl group having from 1 to 4 carbon atoms, simultaneously with finely divided aluminium and an aqueous solution of an acid selected from the group consisting of sulfuric acid, phosphoric acid, hydrochloric acid, oxalic acid, an alkane sulfonic acid containing from 1 to 4 carbon atoms, a sulfonic acid of the benzene series and a sulfonic acid of the naphthalene series, said solution containing not more than 50% by weight of said acid, the quantity of said acid present being sufficient to maintain an acid medium until the reduction is substantially complete, and separating the alkyl-substituted hydroquinone from the reaction mixture.

8. A process for preparing a mixture of an alkyl hydroquinone selected from those represented by the general formula:



wherein R represents a primary alkyl group having from 2 to 4 carbon atoms, and an alkyl p-aminophenol selected from those represented by the general formula:

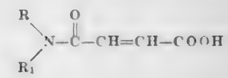


wherein R represents a primary alkyl group having from 2 to 4 carbon atoms, comprising reducing, at a temperature of from 50° C. to 100° C., a compound selected from those represented by the general formula:

wherein R represents a primary alkyl group having from 2 to 4 carbon atoms, with finely divided aluminium and an aqueous solution of an acid selected from the group consisting of sulfuric acid, phosphoric acid, hydrochloric acid, oxalic acid, an alkane sulfonic acid containing from 1 to 4 carbon atoms, a sulfonic acid of the benzene series and a sulfonic acid of the naphthalene series, said solution containing not more than 10% by weight of said acid, the quantity of said acid present being sufficient to maintain an acid medium until the reduction is substantially complete.

2,533,204
TERNARY INTERPOLYMERS COMPRISING ACRYLONITRILE AND N-SUBSTITUTED MALEAMIC ACIDS
John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 23, 1949, Serial No. 129,168
14 Claims. (Cl. 260—78.5)

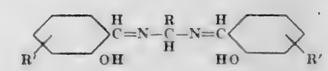
1. A ternary interpolymer containing in the polymer molecule from 45 to 85 per cent by weight of acrylonitrile, from 5 to 30 per cent by weight of a maleamic acid selected from those represented by the following general formula:



wherein R represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 4 carbon atoms and R_1 represents a member selected from the group consisting of an alkyl group containing from 1 to 4 carbon atoms and a monocyclic aryl group of the benzene series, and from 5 to 30 per cent by weight of a vinyl compound selected from the group consisting of vinyl acetate and methyl acrylate.

2,533,205
METAL DEACTIVATORS
Joseph A. Chenicek, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 27, 1947, Serial No. 782,463
4 Claims. (Cl. 44—73)

2. Gasoline containing unsaturated hydrocarbons which tend to form gums and a metal compound which normally catalyzes oxidative deterioration and additionally containing a small amount of a metal deactivator having the general formula



where R is selected from the group consisting of hydrocarbon, hydroxy hydrocarbon, alkoxy hydrocarbon and alkoxyhydroxy hydrocarbon radicals, and R′ is selected from the group consisting of hydrogen, alkyl and alkoxy radicals.

2,533,206

PROCESS FOR PREPARING OXONOL DYES

Samuel G. Dent, Jr., and Leslie G. S. Brooker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

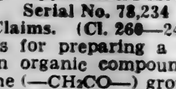
No Drawing. Application February 24, 1949, Serial No. 78,234

8 Claims. (Cl. 260—240.2)

1. A process for preparing a dye comprising condensing an organic compound containing a keto-methylene (—CH_2CO—) group selected from the group consisting of those represented by the following two general formulas:

and

wherein J represents a member selected from the group consisting of a cyano group, a carboxyl group, a carbalkoxyl group, an acyl group of a carboxylic acid, a carbamyl group and a heterocyclic nucleus of the quinoline series, Q represents a member selected from the group consisting of a hydroxyl group, an alkyl group, an aryl group, a carbalkoxyl group, an alkoxyl group and a heterocyclic nucleus of the benzofuryl series and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from those of the 2,4(3,5)-thiazoledione series, those of the 2-thio-2,4(3,5)-thiazoledione series, those of the 2-alkylmercapto-4(5)-thiazolone series, those of the thiazolidone series, those of the 2-alkylphenylamino-4(5)-thiazolone series, those of the 2-diphenylamino-4(5)-thiazolone series, those of the 2-thio-2,4(3,5)-oxazoledione series, those of the 2-imino-2,4(3,5)-oxazolone series, those of the 2,4(3,5)-imidazoledione series, those of the 2-thio-2,4(3,5)-imidazoledione series, those of the 2-alkylmercapto-5(4)-imidazolone series, those of the thionaphthenone series, those of the pyrazolone series, those of the oxindole series, those of the 2,4,6-triketohexahydropyrimidine series, those of the 3,4-dihydro-2(1)-quinolone series, those of the 3,4-dihydro-2(1)-quinoxalone series, those of the 3-phenomorpholone series and those of the 1,4,2-benzothiazine-3(4)-one series, with a dialkoxymethyl carboxylate selected from those represented by the following general formula:



wherein R_1, R_2 and R_3 each represents an alkyl group of the formula C_nH_{2n+1} wherein n represents a positive integer from 1 to 4.

2,533,207

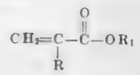
COPOLYMERS CONTAINING 9-METHYLENEFLUORENE

Joseph B. Dickey and Harry W. Coover, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

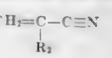
No Drawing. Application October 2, 1947, Serial No. 777,580

12 Claims. (Cl. 260—63)

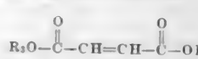
4. A resinous copolymer of 9-methylenefluorene and a polymerizable, unsaturated compound selected from the group consisting of: (*a*) esters having the formula:



wherein R represents a member selected from the group consisting of hydrogen, a methyl group, and an acyloxy group of an aliphatic carboxylic acid having 2 to 4 carbon atoms, and R_1 represents a member selected from the group consisting of an alkyl group having 1 to 4 carbon atoms, an alkenyl group having 2 to 4 carbon atoms, and an aralkyl group; (*b*) nitriles having the formula:



wherein R_2 represents a member selected from the group consisting of a hydrogen atom, a methyl group, and an acyloxy group of an aliphatic carboxylic acid having 2 to 4 carbon atoms, and (*c*) diesters having the formula:



wherein R_3 and R_4 each represents a member selected from the group consisting of an alkyl group having 1 to 4 carbon atoms and an aralkyl group, said copolymer having been prepared from a mixture consisting of 2 to 95 mol-percent of 9-methylenefluorene and 5 to 98 mol-percent of the polymerizable unsaturated compound.

2,533,208

ELECTROLYTIC PRODUCTION OF GELATINOUS TITANIUM HYDRATE NUCLEI

Benjamin Wilson Allan and Frank O. Rummery, Baltimore, Md.

No Drawing. Application August 22, 1944, Serial No. 550,672

6 Claims. (Cl. 204—130)

1. In a process of making a seed for the hydrolysis of hydrolyzable titanium salt dispersions, forming titanium hydrate nuclei by heating and curing a dispersion of a member of the class consisting of the hydrochloric acid salts of titanium and the orthohydrate of titanium peptized with HCl, cooling and then removing HCl from the nuclei and effecting gelatinization of said nuclei by electrolyzing a dispersion of the nuclei in aqueous HCl whereby hydrogen gas is evolved at the cathode and chlorine gas is evolved at the anode, the electrolysis being conducted with anode insoluble in the electrolyte.

2,533,209

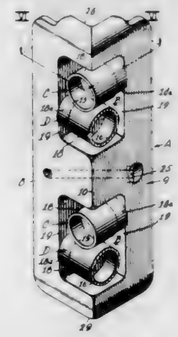
FINISHING TOOL FOR CORNER TAPE

Robert G. Ames, Burlingame, Calif., assignor of one-half to George W. Williams, and one-fourth to Stanley Ames, both of Burlingame, Calif.

Application May 23, 1949, Serial No. 94,840

9 Claims. (Cl. 216—61)

1. In a finishing tool for corner tape: a body having a pair of angularly-related face plates, the body being provided with a compartment therein which opens on the faces of the plates and straddle the junction of these face plates; a pair of rollers rotatably supported in the compartment, with the rollers disposed at an angle with respect to one another corresponding substantially with the angularity of the face plates; the axis of one roller substantially paralleling one of the face plates, and the axis of the other roller substantially paralleling the other face plate; both of the rollers having peripheral sections projecting beyond the face plates which they parallel.



2,533,210

METHOD FOR SULFONATION OF POLYSTYRENE

Massimo Baer, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 11, 1949, Serial No. 109,811

3 Claims. (Cl. 260—93.5)

1. A process which comprises sulfonating solid polymers of styrene by reacting said polymers at temperatures from —15° C. to +5° C. in a chlorinated, aliphatic, organic solvent with a complex of sulfur trioxide and bis-(beta-chlorethyl) ether containing from 1.5 to 3 mols of bis-(beta-chlorethyl) ether per mol of sulfur trioxide.

2,533,211

PROCESS FOR SULFONATING POLYSTYRENE

Massimo Baer, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 11, 1949, Serial No. 109,812

3 Claims. (Cl. 260—79.3)

1. A process which comprises sulfonating solid polymers of styrene by reacting said polymers at temperatures from —15° C. to +5° C. in a chlorinated, aliphatic, organic solvent with a complex of sulfur trioxide and dioxane containing from 0.5 to 2 mols of dioxane per mol of sulfur trioxide.

2,533,212

COMBINED VEHICLE BUMPER GUARD AND SUPPORT STRUCTURE FOR TURN SIGNAL INDICATORS OR THE LIKE

James G. Balmer, Jr., Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application April 2, 1949, Serial No. 85,070

12 Claims. (Cl. 177—329)

1. A vertically arranged guard structure for attachment to a vehicle bumper, comprising a shell defining an open hollow chamber, means on said shell providing a projecting buttress, means on said shell defining a lens opening rearwardly of said buttress, a lens secured to said shell in register with said opening, and a light bulb supporting structure disposed in said shell cooperating with said lens to provide a closed light bulb chamber for a light bulb carried by said structure.

2,533,213

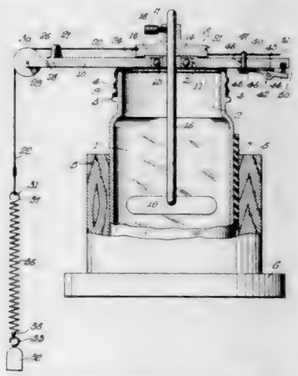
CONSISTENCY METER

Harvie Barnard, Clinton, Iowa, and Edward M. Wharton, Bound Brook, N. J., assignors to the United States of America as represented by the Secretary of War

Application August 18, 1947, Serial No. 769,288

3 Claims. (Cl. 73—59)

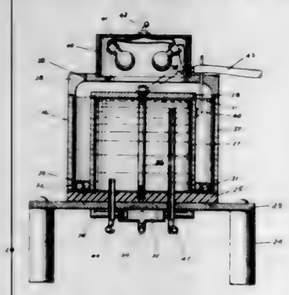
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. A torsiometer apparatus of the class described comprising a glass jar at least twice as high as it is wide for a liquid having an open threaded neck portion, a container for said jar having a base substantially wider than the jar, a centrally apertured disc having a diameter more than one-fourth longer than the width of said jar mounted on and threadedly secured to said neck portion provided with a cable pulley and having a rotatably mounted shaft extending therethrough, said shaft being provided with paddles at one of its end portions for stirring said liquid in said receptacle, and with a detachably connected shaft pulley above said disc near its opposite end portion of said shaft, and a cable means adapted to be wound around the shaft pulley provided with a plurality of weights for driving said shaft pulley, when the cable is wound around the shaft pulley, passed over the cable pulley, and has one of said weights suspended therefrom at the

lower end portion thereof, said disc being provided on its upper surface with a circular azimuthal scale centrally positioned around the central aperture of said disc, said pulley being provided with a pointer whereby the angular position of the pulley on the disc is indicated, and said disc being also provided with a movable abutment means whereby the rotation of the shaft pulley may be stopped after making any desired number of revolutions.

2,533,214
FOG RESISTANCE TESTING APPARATUS
Arthur J. Berger, New York, N. Y.
Application June 20, 1945, Serial No. 600,626
2 Claims. (Cl. 73—15.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

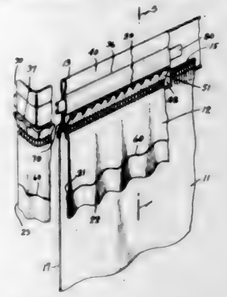


1. An apparatus for testing the fogging characteristics of a transparent material, said apparatus comprising a first transparent cylindrical element adapted to have transparent material to be tested mounted adjacent the outer surface thereof, a transparent member closing one end of the first transparent cylindrical element, a second transparent cylindrical element forming a shell around said first element in spaced relation therefrom and defining a chamber therebetween, a first tube opening into the first element near one end thereof, a second tube opening into the first element near the other end thereof, a third tube opening into the chamber near one end thereof, and a light source disposed externally of the first element adjacent said transparent member for directing light through said transparent member into the first element and outward through the first and second elements.

2,533,215
PROCESS FOR THE MANUFACTURE OF ARGININE BASE
Dominic J. Bernardi, New York, and Ferdinand A. Dostal, Maspeth, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application September 22, 1948, Serial No. 50,654
2 Claims. (Cl. 260—529)

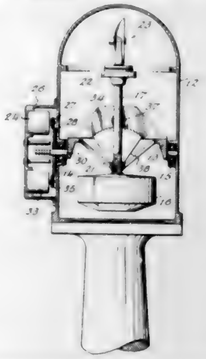
1. The recovery of free arginine base from a mother liquor containing arginine, residual lysine, and impurities, by adjusting the mother liquor to alkalinity of a pH above 10.5 and below 13 with sodium hydroxide, removing any precipitate which forms upon the addition of the sodium hydroxide, removing crystallized salt from the hot solution after concentration in vacuo, refrigerating, and separating the crystallized arginine base.

2,533,216
CURTAIN CONSTRUCTION
Edmond P. Bixer, New York, N. Y.
Application December 31, 1947, Serial No. 794,895
3 Claims. (Cl. 160—387)



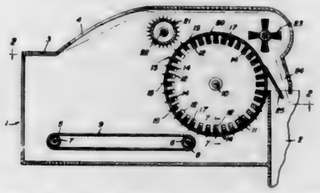
3. A window curtain comprising: heading element composed of an elongated strip of flexible sheet material having end edges and being folded upon itself to form a rod passage, the longitudinally free edge portions of said heading element forming downwardly extending valance and body panel carrying members, said valance carrying member being located forwardly of the body carrying panel member; a body panel element gathered and secured at the upper portion thereof to said body panel carrying member, said body panel element having side edges which in the gathered area thereof, are spaced from each other a distance which is substantially less than the distance between the end edges of the heading element; and a valance element secured at the upper portion thereof to said valance carrying member, said valance element having side edges which are substantially coterminous with the end edges of the heading element.

2,533,217
GYROVERTICAL SLAVING SYSTEM
Frederick D. Braddon, Babylon, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 29, 1946, Serial No. 713,189
20 Claims. (Cl. 114—191)



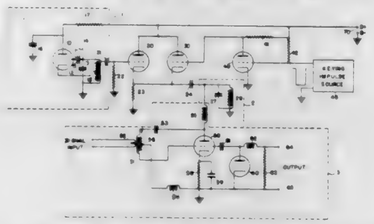
12. The combination of a gravity reference having a sensitive element substantially situated at the metacenter of a ship, a gyro vertical situated on the mast of the ship, slaving means connecting said sensitive element and said gyro vertical and means for compensating for the relative tilt of the ship's metacenter and mast head.

2,533,218
FEED BOX FOR FIBER SCOURING MACHINES
Edward H. Brooks, Sr., Portland, Maine, assignor of one-half to Edward H. Brooks, Jr., Portland, Maine, and one-half to Elton H. Thompson, Cape Elizabeth, Maine
Application July 12, 1946, Serial No. 683,203
4 Claims. (Cl. 19—67)



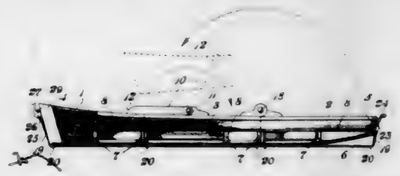
1. A feed box for fibre scouring machines, said feed box including a housing having a cover formed with a fibre stock inlet opening, an endless conveyor to convey fibre stock and disposed in said housing below said inlet opening, a perforated feed roll rotatably mounted in said housing adjacent the discharge end of said conveyor to receive conveyed stock, peripherally notched end members forming a part of said feed roll, oppositely disposed guide channels of U-shape in cross section having camming peripheral sections secured to the inner opposite walls of said housing, a plurality of sticks mounted between said guide channels and disposed in the peripheral notches in said end members, means secured to the ends of said sticks and disposed in said channels and engaging said camming sections when said feed roll is rotated to laterally displace said sticks, radially extending pins on said sticks disposed in the perforations in said feed roll for automatic projection and retraction as said sticks displacing means passes over said camming sections to pick up the stock from the discharge end of said conveyor and to release the stock during rotation of said feed roll, and means forming an outlet in said housing adjacent said feed roll for passage of the stock from the feed roll to the exterior of said housing.

2,533,219
KEYING CIRCUIT
Thomas Robert Burnight and John F. Clark, Jr., Washington, D. C.
Application November 13, 1945, Serial No. 628,338
5 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a first electron tube having a cathode, an anode, and a grid; power supply means connected between the anode and ground; impedance means connected between cathode and ground comprising an oscillatory network and a direct connected resistance; means for applying an alternating input signal to the grid; a second electron tube having a cathode, an anode, and a grid; means connecting the anode of the second tube to the power supply means; means connecting the cathode of the second tube to the cathode of the first tube; and signal input means connected to the grid of the second tube for applying a positive potential thereto operative to block the first tube to the input signal by raising its cathode potential and to damp the oscillatory network with the low cathode output impedance of the second tube.

2,533,220
FOLDABLE BOAT
Austin S. Carter, Chelan, Wash.
Application December 9, 1947, Serial No. 790,647
4 Claims. (Cl. 9—2)



1. A foldable boat comprising a bow section, a stern section, a midsection, said sections having abutting ends provided with cross walls extending above the water line of the boat and serving to exclude water from the boat during use of the boat, hinge bars extending longitudinally of the boat, blocks carried by the bow section and the midsection at opposite sides thereof and to which front and rear ends of the hinge bars are pivoted to mount the said bars for vertical swinging movement and allow the bow section to be shifted upwardly and then rearwardly and downwardly to a retracted position upon the midsection while remaining upright, hinges pivotally connecting opposite sides of the stern section with the rear end of the midsection and mounting the stern section for vertical swinging movement from an extended position to a retracted and inverted position upon the retracted bow section and together with the midsection enclosing the bow section, a cable extending longitudinally of said sections along the keel of the boat and having its rear end secured at the rear end of the stern section, a clevis at the front end of said cable, a cross pin carried by said clevis, and a lever pivoted to the stem of the bow section for vertical swinging movement and having a bill for engaging the pin when the lever is passed through the clevis and exerting pull to tighten the cable when the lever is swung upwardly to a set position.

2,533,221
CARAMEL COLOR SEPARATION
James E. Cleland and Joseph B. Longenecker, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana
No Drawing. Application June 6, 1947, Serial No. 753,054
8 Claims. (Cl. 99—148)

1. In a process of separating essential coloring compounds from a caramelized water soluble carbohydrate material, the steps comprising dispersing said caramelized carbohydrate in a solu-

tion consisting essentially of a major amount of a water soluble alcohol and a solubility regulating liquid having a boiling point of from 30–80° C., whereby the essential coloring compounds are precipitated.

2,533,222
CHRISTMAS TREE LIGHTING SYSTEM
Felix Cohen, Denver, Colo.
Application February 18, 1946, Serial No. 648,457
4 Claims. (Cl. 240—10)

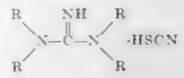
1. A lighting assembly comprising a plurality of strands of lights adapted to be placed on a tree or the like, each said strand including an electrically conductive cord having a pronged plug at an end thereof; a plurality of elongated receptacle units of arcuate transverse section, each having a pair of longitudinally extending and spaced conductors embedded in electrically non-conductive material, each said conductor being provided with flanges extending radially into slots formed in said material, said flanges being adapted to contact the prongs of said strand plugs and thereby form a plurality of spaced connections for electrical attachment of said strands to said unit; means for electrically attaching said units together including a prong extending from each conductor and axially from the lower end of each upper unit, and slots and cooperating prongs at the upper end of the unit next below; and means for attaching said units to the trunk of a tree or the like.

2,533,223
CLARIFIER OF SEWAGE BY COLLOIDAL DEGENERATION
Elza A. Cox, Marion, Ill.
Application May 24, 1946, Serial No. 672,113
2 Claims. (Cl. 210—8)

1. A sewage clarifying system comprising in combination, a sedimentation basin having a flat bottom surface and sides in a longitudinal direction angularly disposed with respect to said surface and including an inlet for the introduction of sewage affluent therein, a conveyor having cleaning units thereon for collecting the sludge deposited on said surface and settling from the affluent and carrying it up one of said sides and ejecting it from said basin, a chute to receive said ejected sludge, a digestion tank connected with said chute for receiving and holding said ejected sludge for treatment therein, an overflow channel on said basin for carrying excess affluent therefrom, a plurality of clarifying sections connected with said channel for receiving the excess affluent continuously, an endless belt operating rotatably and longitudinally in said sections, a plurality of closely spaced plate members attached to said belt and projecting outwardly from said belt and traveling therewith, a plurality of spaced teeth projecting outwardly from said members and extending the full width and depth of the affluent carrying portions of the sections so as to sweep along close to the floor thereof for agitating the affluent slowly and throughout the entire lengths of the sections by substantially half of the teeth at a time, the remaining half of the teeth being above the sections and exposedly traveling through the air simultaneously therewith so that sewage affluent thereon will be oxygenized thereby while planting its colloidal sewage on the teeth moving therethrough and providing a bacterial slime thereon for increasing the oxygenizing action, the teeth in the first and second of said clarifying sections moving in a direction away from said basin and the teeth in the third of said clarifying sections moving in a direction toward said basin to propel any further sludge developed in said sections for its removal therefrom and the further clarification of the sections, said teeth being of wood material having an active attraction for facilitating the adherence of the affluent thereon and the growth of aerobatic bacteria without interfering with the removal of coagulated materials thereon as the teeth repass through the affluent, a sludge trough disposed intermediate the second and third of said clarifying sections for receiving the further sludge developed in said clarifying sections, means for removing the processed affluent after it passes through said sections, and means for actuating said conveyor and endless belt.

2,533,224
POLYMERIC COMPOSITIONS AND METHODS OF PREPARING THE SAME
Arthur Cresswell, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 4, 1947, Serial No. 772,201
16 Claims. (Cl. 260—30.8)

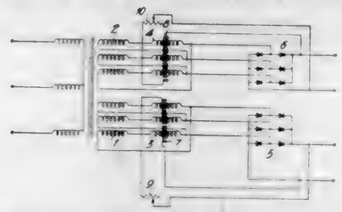
1. A composition of matter comprising (1) a thermoplastic product of polymerization of a polymerizable mass comprising mainly acrylonitrile and (2) a guanidine thiocyanate represented by the general formula



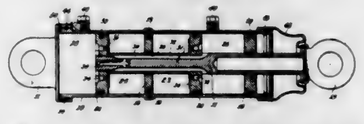
where each R represents a member of the class consisting of hydrogen and lower alkyl radicals containing from 1 to 5 carbon atoms, inclusive, and at least two of which substituents represented by R are hydrogen atoms.

2,533,225
REGULATED RECTIFIER
Lars Per Cronvall, Stockholm, and Gunnar Winkler, Appelviken, Stockholm, Sweden, assignors to International Standard Electric Corporation, New York, N. Y.
Application December 6, 1944, Serial No. 566,889
In Sweden April 5, 1944
3 Claims. (Cl. 321—25)

1. A simplified circuit arrangement for securing a unidirectional current output substantially free of harmonics comprising a source of three phase power, a transformer having primary and three-phase delta connected secondaries, a reactor having A.-C. windings, each of said windings being serially connected between respectively different ones of said secondaries, and a D.-C. winding operatively associated with said A.-C. windings, electrical valves connected to the legs of said secondaries to produce a unidirectional current output, and a circuit for connecting said D.-C. winding across the output of said valves.



2,533,226
HYDRAULIC DAMPING MECHANISM
Harold W. Davis, Bound Brook, and Winthrop A. Johns, North Plainfield, N. J., assignors, by mesne assignments, to Vibradamp, Incorporated, New Brunswick, N. J., a corporation of New Jersey
Application May 30, 1945, Serial No. 596,784
6 Claims. (Cl. 188—88)

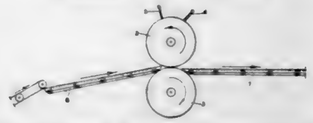


1. Hydraulic damping means including in combination a cylinder closed at its ends, a diaphragm fixed in the cylinder dividing it in two parts, a piston rod passing through one of the closed ends into the cylinder and through the diaphragm, a restricted orifice connecting said two parts, a pair of pistons fixed to the rod on opposite sides of the diaphragm, each piston being spaced from the diaphragm to provide a high-pressure hydraulic chamber between the piston and the diaphragm and being spaced from the adjacent end of the cylinder to provide a low-pressure hydraulic chamber between the piston and end of the cylinder, all of said chambers being filled with liquid in all positions of the piston rod, a conduit connecting the low-pressure chambers to permit liquid to flow from one low-pressure chamber to the other when the piston rod is moved, and a movable piston forming the end of one of the low-pressure chambers.

2,533,227
APPARATUS FOR THE MANUFACTURE OF TWIST DRILLS
Harry W. Delaney, Chicago, Ill.
Original application May 31, 1941, Serial No. 395,961, now Patent No. 2,457,132, dated December 28, 1948. Divided and this application November 1, 1946, Serial No. 707,144
10 Claims. (Cl. 76—5)

4. Apparatus for use in the manufacture of twist drills comprising a pair of vertically spaced rolls adapted to flatten a length of heated round bar stock and feed it between one or more pairs of cooperating spaced rolls adapted to form flutes along the entire length of said bar stock and continuous beads along alternate edges of said flutes, a press having mounted thereon a pair of twisting chucks adapted to engage the ends of said fluted bar stock and twist it into drill shape, and a press having vertical plates adapted to roll said drill stock to a desired size and partially flow the metal of said bead into said flutes, said apparatus being so positioned as to permit all said operations to be performed as a substantially continuous process without further heating of the originally heated bar stock.

2,533,228
METHOD OF CALENDERING SHEET MATERIAL
Charles E. Dill, Dover, N. J., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application October 12, 1946, Serial No. 702,966
7 Claims. (Cl. 117—111)

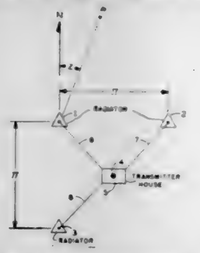


1. In a method of forming a sheet from a thermoplastic mass, the steps comprising delivering to the nip between a pair of calendering rolls a mass of thermoplastic material heated to a temperature above 212° F., at which said heated mass is plastic and may be sheeted by calendering, the face-forming roll of said calender being maintained at a temperature at which said heated mass would normally adhere under consolidating pressure in sheet formation, interposing a film of an aqueous wax emulsion between the surface of the face-forming roll and said heated mass under treatment, said heated mass being non-adherent to said face-forming roll with said interposed film under consolidating pressure in sheet formation, consolidating said mass into a sheet between said rolls with said film of aqueous wax emulsion interposed between said face-forming roll and said heated mass, removing water from said wax emulsion film by the application of heat thereto from said heated mass under consolidation, and removing the formed and wax coated sheet from said calender rolls substantially free of cracks or breaks in the face thereof.

2,533,229
OMNIDIRECTIONAL RADIO BEACON
Edward N. Dingley, Jr., Arlington, Va.
Application June 25, 1947, Serial No. 757,042
10 Claims. (Cl. 343—105)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

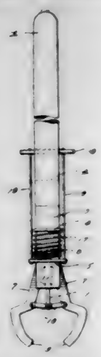
1. The method of determining azimuthal bearing at a station comprising the steps of radiating successively in sequence from separate points mutually interspaced a fixed fraction of the

radiating wavelength the complementary portions, respectively, of a continuous electro-magnetic wave train, comparing the time-phase re-



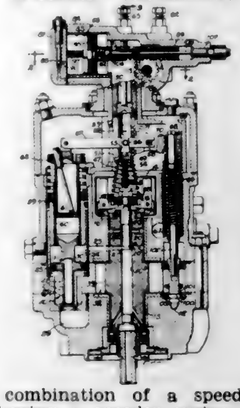
lationship of said complementary wave portions as received at the station, and translating the variation in time-phase into degrees of azimuthal bearing.

2,533,230
ANIMAL CATCHER AND HOLDER
Willis E. Dixon, Stronghurst, Ill.
Application August 18, 1944, Serial No. 549,999½
2 Claims. (Cl. 119—154)



1. An animal catcher and holder comprising an elongated handle having a bifurcated end to provide a bearing slot and formed with a longitudinal slot spaced from said bearing slot and extending in the same plane therewith, a pair of coacting jaws having shank portions terminally and pivotally mounted upon said handle within said bearing slot, interconnected toggle links pivotally and terminally connected to and between intermediate portions of said jaws, horizontally and vertically spaced guide pins disposed transversely of said bearing slot, a jaw operating plunger pivotally connected with the interconnected ends of said toggle links slidably disposed within said bearing slot between said guide pins, a coil spring within said bearing slot and disposed about said plunger having one end of the spring fixed relative to the handle and the other end of the spring operatively connected to said plunger, a slip ring disposed about said shank portions of said jaws being slidable on said handle, a manually operated bar mounted transversely through said longitudinal slot for longitudinal movement, parallel connecting rods between said bar and slip ring, a reinforcing sleeve about said handle adjacent the bight end of said bearing slot, a radially extending collar fixed to and about said sleeve, and a relatively heavy jaw closing coil spring disposed about said handle between said collar and slip ring.

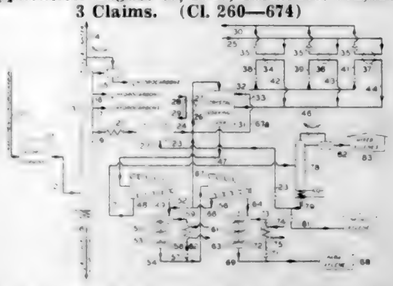
2,533,231
SPEED-RESPONSIVE GOVERNOR
George Forrest Drake, Willard J. Whitehead, and Harland C. Plummer, Rockford, Ill., assignors to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application January 30, 1946, Serial No. 644,294
19 Claims. (Cl. 264—14)



1. The combination of a speed-responsive governor having a speeder spring, a member movable back and forth to vary the stress of said spring and thereby change the governor speed setting, spring means capable of overcoming said speeder spring and urging said member in the speed-increasing direction, a dashpot regulating the rate of movement of said member by said spring means while permitting free movement of the member in the opposite direction, an adjusting element movable in opposite directions to different selected positions according to changes desired in the speed setting of the governor, and means providing a limited lost motion connection between said adjusting element and said member.

14. The combination of means providing a fluid passage, main and auxiliary valves controlling the fluid flow through said passage, a speed-responsive governor for actuating said main valve means, and a single manually operable device selectively movable to actuate said auxiliary valve means and to adjust the speed setting of said governor.

2,533,232
PRODUCTION OF PARA XYLENE
Russell G. Dressler, Louisiana, Mo., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application August 29, 1947, Serial No. 771,230
3 Claims. (Cl. 260—674)



1. A process of recovering para xylene from ortho and meta xylenes in the presence of from

at least 5% by volume (based on the entire hydrocarbon fraction) of ethyl benzene and in the presence of at least 5% by volume (based on the entire hydrocarbon fraction) of paraffins boiling within the range of from 230 to 300° F., which comprises separating a crystallized para xylene fraction as a solid phase from liquid hydrocarbons of said mixture at a temperature below −75° F. but above T_2 where

(1) $T_2 = -62° \text{ F.} - 0.3X - 1.4Y - 0.65Z$

when the ortho xylene content is less than one-half the percentage of meta xylene, and

(2) $T_2 = -84.5° \text{ F} - 0.3X - 1.4Y + 1.3(Z - 33)$

when the ortho xylene content is greater than one-half the percentage of meta xylene and

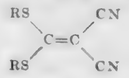
$$T_2 = -84.5° \text{ F.} - 0.3X - 1.4Y$$

when the ortho xylene content is approximately one-half the percentage of meta xylene, where X and Y are the percentages of paraffins and ethyl benzenes respectively based on the feed, and Z in Formulas 1 and 2 is the percentage of ortho xylene and meta xylene, respectively, based on the isomeric xylene contained in the feed.

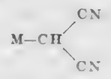
2,533,233
ββ-DICYANOKETENE DIALKYL MERCAPTOLES AND METHOD FOR THEIR PREPARATION
Harry Derek Edwards and John David Kendall, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
No Drawing. Application January 15, 1948, Serial No. 2,554. In Great Britain January 24, 1947
7 Claims. (Cl. 260—465.8)

1. A ββ-dicyano ketene dialkyl mercaptole.

4. Process for the preparation of a β,β-dicyano ketene dialkyl mercaptole of the formula:



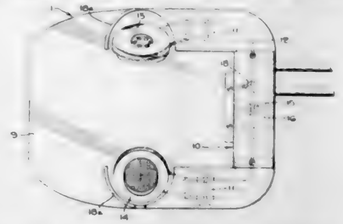
where R is an alkyl group, which comprises reacting carbon disulphide with the dry alkali-metal derivative of malodinitrile of the formula:



where M represents an atom of alkali-metal, and alkylating the product by treatment with an alkyl ester.

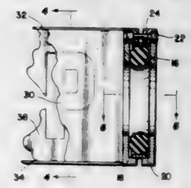
2,533,234
TELEPHONE ANSWERING APPARATUS
William C. Edwards, Jamaica, N. Y., assignor of one-half to J. Cheever Condin, Bel Air, Calif., Preston Davie, Westbury, and Charles D. Prutzman, Forest Hills, N. Y., and seven and one-half per cent to J. M. W. Miller, Los Angeles, Calif.
Application December 27, 1947, Serial No. 794,174
20 Claims. (Cl. 179—6)

1. A telephone-answering apparatus comprising a sound-recording and play-back means, a telephone unit having means for moving a hand set of a telephone line to and from an operative position and a microphone and receiver for respectively transmitting sound from the hand set to the telephone unit and from the telephone unit to the hand set, and a conditioning means for conditioning said recording and play-back means and said hand set for operation, said conditioning means including means for initiating its action by the reception of sound from said hand set and including retaining means for



retaining the same in operative position by the continuation of the reception of sound frequencies from either said recording and play-back means or telephone unit, said latter means including a time delay circuit.

2,533,235
PORTABLE SIGNAL LIGHT
William A. Feek, Seattle, Wash.
Application May 24, 1949, Serial No. 95,015
3 Claims. (Cl. 177—329)

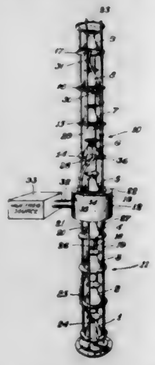


2. A demountable, portable light for imparting intelligence at a distance, consisting of: a word transmitting sign; a portable source of light; adjustable clamp means for operatively securing said sign to said light source; said sign formed with a sheet of clear light conducting plastic material disposed, for use, substantially co-axially with the light beam from said light source; a covering sheet of colored light transmitting material secured to the face of said clear plastic sheet; words formed on the said colored covering sheet; opaque masking means for three sides of said sign; said adjustable clamp means having a fixed member and a movable member secured to the unmasked end of said sign; and a resilient gripping member in said clamp means adapted to be distorted by relative movement of said fixed member and said movable member of said clamp means, to form a gripping engagement for said source of light.

2,533,236
ANTENNA ARRAY
Robert Arthur Felsenheld, East Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 3, 1947, Serial No. 777,606
6 Claims. (Cl. 250—33.53)

1. In an array of double surface dipoles mounted vertically above one another and spaced a given distance from one another, a feeder system for said dipoles comprising a cable mounted at one end of at least a portion of said array, said cable having the same number of lines as

antennas in said portion and being in the form of a spiral arranged about the outer peripheries of said antennas and cutting across the opening



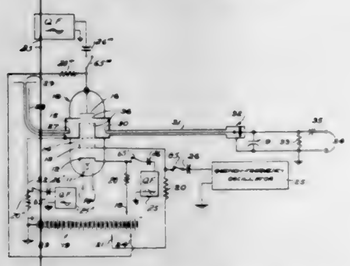
of each antenna once and in different sectors of the azimuth, each line of said cable being branched from said cable at a respective antenna and coupled thereto.

2,533,237

SUPERREGENERATIVE RECEIVER

Thomas M. Ferrill, Jr., Hempstead, and Benjamin F. Spencer, Garden City, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application February 12, 1945, Serial No. 577,368
17 Claims. (Cl. 250—20)



1. In a superregenerative wave receiver, the combination of a reflex velocity-modulation tube having a cavity resonator, means for rendering said tube alternately oscillatory and non-oscillatory, means for introducing an input wave into said resonator, and utilization means responsive to the average strength of oscillation of said tube including a rectifier element coupled to said resonator.

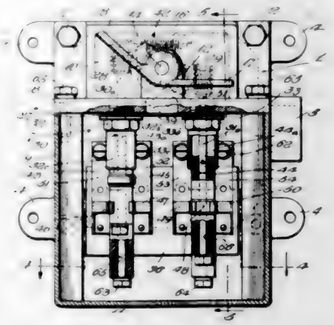
2,533,238

CIRCUIT CONTROLLER

Joseph F. Frese, Baltimore, Md., assignor to The Monitor Controller Company, Baltimore, Md., a corporation of Maryland

Application August 31, 1945, Serial No. 613,736
15 Claims. (Cl. 200—153)

1. Control mechanism for a switch comprising a housing, a set of fixed contactors insulatingly and removably supported by said housing on substantially spaced parallel axes, a pair of movable contact assemblies replaceably supported in said housing adjacent said fixed contactors, said movable contact assemblies each including a reciprocative plunger member, an insulation member connected therewith, a contact supported by said insulation member, a head connected with each of said plunger members, annular grooves formed on each of said heads and a rocker mounted for pivotal movement between the heads of said plunger members, said rocker having peripheral teeth on the opposite ends thereof engageable with the annular grooves in said heads for selectively and alternately linearly shifting said plunger members to positions in which the contact carried by said insulation members may be selectively connected with or disconnected from said co-acting fixed contactors the annular grooves of said heads being unrestrictedly revolvable within the teeth of said rocker.

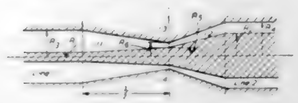


2,533,239

IMPEDANCE TRANSFORMER FOR COAXIAL LINES

Alfred Walter Gent and Peter John Wallis, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application January 5, 1946, Serial No. 639,290
In Great Britain November 16, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 16, 1964
4 Claims. (Cl. 178—44)



1. An impedance matching section for transforming over a wide band of operating frequencies the impedance of a coaxial conductor transmission line to the impedance of another coaxial conductor transmission line comprising a section of tapered coaxial conductor transmission line having conductor diameters at one end equal to the diameters of the conductors of one of the lines to which said section is to be connected, said section conductors tapering in opposite directions and having an electrical length equal substantially to an integral number of half wave-lengths at the mid frequency of the operating band, said section conductors further tapering in the direction to the diameters of the other line to which the section is to be connected.

2,533,240

ORGANOCHLOROSILANES AND PROCESS FOR THEIR PRODUCTION

Leo A. Goldblatt and Dorothy M. Oldroyd, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application January 16, 1948, Serial No. 2,798
14 Claims. (Cl. 260—448.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

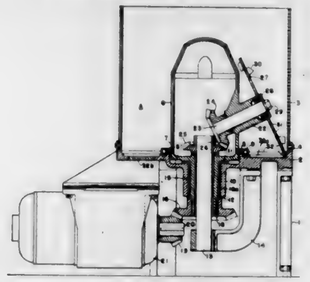
1. A process comprising refluxing a mixture of a halo-silicon hydride, taken from the group consisting of tri-chloro-silicon hydride and methyl-dichloro-silicon hydride, with a cyclic terpene hydrocarbon having at least one non-aromatic double bond of the formula $C_{10}H_{16}$, at about 55° to 96° C. for several hours in the presence of an organic peroxide catalyst, and fractionally distilling the reaction mixture to recover a reaction product of the halo-silicon hydride and said terpene having a silicon content of at least about 7.4%.

2,533,241

APPARATUS FOR COMMINUTING AND MIXING MATERIALS

Bronislaw Goldman, Pittsburgh, Pa.

Application June 12, 1946, Serial No. 676,234
3 Claims. (Cl. 259—102)



1. A mixing device comprising a cylindrical container having a cylinder mounted centrally thereof forming an annular mixing chamber with the wall of the container, a disc journaled in said cylinder, said disc having its axis inclined from a horizontal plane, whereby the face of the disc extends from the cylinder at the top to the periphery of the container at the bottom across the annular mixing chamber, means for rotating said cylinder and thereby revolve said disc to subject the material in the annular mixing chamber to a mixing movement in a cycloidal path, said disc having perforations for allowing transverse flow of the material in opposite directions above and below the disc axis.

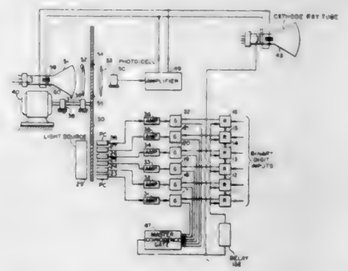
2,533,242

DATA TRANSFORMATION SYSTEM

Darrin H. Gridley, Washington, D. C.

Application December 27, 1949, Serial No. 135,213
6 Claims. (Cl. 177—337)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A data transformation system comprising a circular code member having digital coded combinations arranged in rings thereon and a plot of input-output relationship as the separation between distinctively identified sections thereof, means rotating the code member, means deriving primary control signals in dependency on the digital coded combinations on the code member in registry therewith, coincidence means producing a secondary control signal when primary control signals correspond to input coded signals, and means deriving output signals proportional to the value of the input-output relationship plot corresponding to the position of the code member providing secondary control signals.



2,533,243

2[2-N-BENZYL-N-(β-CHLOROETHYL) AMINOETHYL] PYRIDINE AND THE ACID SALTS THEREOF

William S. Gump, Upper Montclair, and Edward Joseph Nikawitz, Passaic, N. J., assignors to The Givaudan Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 29, 1949, Serial No. 124,482
1 Claim. (Cl. 260—296)

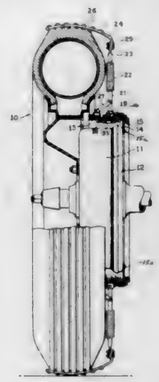
2-[2-N-benzyl-N-(β-chloroethyl)aminoethyl] pyridine dihydrochloride.

2,533,244

MECHANICALLY OPERATED ANTISKID DEVICE FOR VEHICLE WHEELS

William George Hardy, Pittsburgh, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 1, 1949, Serial No. 73,886
4 Claims. (Cl. 152—214)



1. Antiskid apparatus comprising a stationary base member adapted for mounting on a fixed

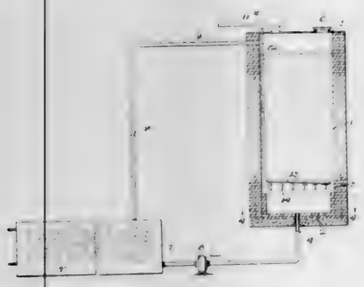
part of a vehicle, a cleat ring supported thereon for movement coaxial with a wheel with which the apparatus is associated, a second ring rotatable with the cleat ring, cleat-carrying arms pivotally supported on the cleat ring, links pivotally connected to said arms and the second-named ring, and means for shifting the said second ring axially of the cleat ring toward and from a wheel with which the apparatus is associated.

2,533,245

METHOD OF PRODUCING COPPER SULFATE

George E. Harike, College Park, Ga., assignor to Tennessee Copper Company, New York, N. Y., a corporation of New Jersey

Application February 24, 1948, Serial No. 10,287
4 Claims. (Cl. 23—125)



1. The method of producing copper sulphate which comprises forming a mass of copper that is substantially porous throughout by forming said mass of copper particles having a maximum dimension not greater than about two inches, maintaining said mass submerged in a 150°-210° F. aerated solution of copper sulphate and sulphuric acid, air being continuously introduced into the bottom of the mass at the rate of 1 to 30 C. F. M. per square foot of cross sectional area of the mass, the pressure of the gas above the solution being substantially atmospheric, the solution being continuously introduced to the bottom of the mass and moving upwardly therethrough with the air and being withdrawn from the top, and maintaining the reaction temperature.

2,533,246

PRODUCTION OF LITHIUM CHLORIDE FROM SPODUMENE

Earl T. Hayes and Frank P. Williams, Salt Lake City, Utah, and Woldemar M. Sternberg, Long Beach, Calif.

No Drawing. Application March 11, 1947, Serial No. 733,980
7 Claims. (Cl. 23—89)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

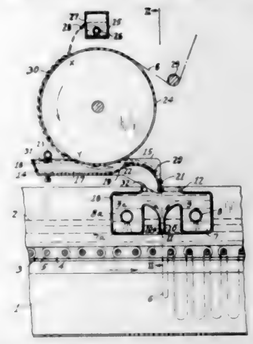
1. A process for the production of water soluble lithium compounds which comprises subjecting a mixture of about 4 to 6 parts by weight of a lithium bearing silicate, about 4 to 6 parts by weight of limestone, and about 2 to 4 parts by weight of calcium sulphate, having a particle size of about minus 200 mesh to treatment at temperatures of about 1000 to 1500 degrees centigrade, and leaching the calcined mixture with water to recover the water soluble lithium compound.

2,533,247

WEB FEEDING OF TEXTILE MATERIALS

Weldon G. Helmus, Ridgewood, N. J., assignor to Fair Lawn Finishing Company, a corporation of New Jersey

Application February 27, 1947, Serial No. 731,376
14 Claims. (Cl. 68—62)



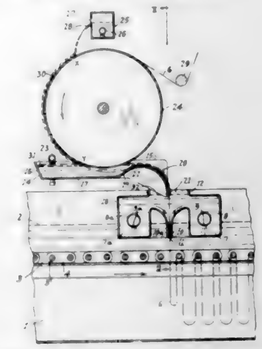
1. Device in combination with an open-web feeding apparatus of the type including a feed slot and means for conveying a below-bath-surface current through said feed-slot, which comprises means defining a convexly arcuate surface and a downwardly extending end-portion, said end-portion being positioned for substantially vertically directional alignment with the inlet end of said feed-slot, means for continuously passing treating liquid onto and over said surface toward and over said end portion, and means for continuously bringing a web of textile material in open, substantially tension-relaxed condition onto said surface.

2,533,248

WEB FEEDING OF TEXTILE MATERIALS

Weldon G. Helmus, Ridgewood, N. J., assignor to Fair Lawn Finishing Company, a corporation of New Jersey

Original application February 27, 1947, Serial No. 731,376. Divided and this application November 28, 1947, Serial No. 788,522
1 Claim. (Cl. 8—151)



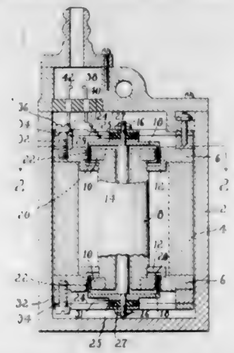
In the open web feeding of a web of textile material by way of a downwardly directed below-treating-bath surface created web conveying current, the improvement comprising subjecting a web of textile material to unrestrictive shrinkage with treating liquid while in substantially uniformly supported tension contact with a substantially smooth surface immediately, thereafter immersing said web in treating liquid and substantially tension-relaxing said web therein and conveying the same in substantially tension-relaxed condition and substantially encased in a stream of treating liquid over a downwardly arcuating surface into substantially vertical position for gripping contact with a below-treating-bath surface created web conveying current.

2,533,249

SEISMIC DETECTOR

Robert L. Henson, Jr., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 4, 1947, Serial No. 726,252
9 Claims. (Cl. 171—209)



1. A seismic detector comprising means providing a rigid permanent magnet assembly having a pair of symmetrically arranged annular air gaps, a non-magnetic armature including a pair of coils and conductive elements mounting said coils located within said gaps, and spring means supporting said armature, said coils being astatically arranged so that stray magnetic fields cutting both coils induce therein bucking electromotive forces, while electromotive forces induced therein by relative movements of the coils and the magnet assembly are additive.

2,533,250

ESTER OF 1,5-PENTANEDIOL AND ITS PREPARATION

Stanford J. Hetzel, Cheltenham, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application August 25, 1948, Serial No. 46,185
5 Claims. (Cl. 260—410.6)

1. 1,5-pentanediol dikerosenate.

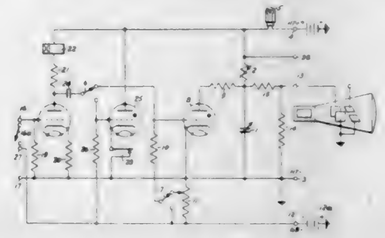
2,533,251

TIME BASE CIRCUIT FOR CATHODE-RAY OSCILLOGRAPHS

Stuart Seymour Hill, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application September 25, 1947, Serial No. 775,993
In Great Britain September 25, 1946
4 Claims. (Cl. 315—29)

1. A time-base circuit for a cathode ray oscillograph comprising a first gas-filled valve, a second gas-filled valve, means for applying a non-periodic pulse to said second valve, a direct current source, a resistance, a condenser connected to said direct current source through said resistance, switching means for normally coupling said first valve to said condenser through an electrical path excluding said resistance to periodically and rapidly discharge said condenser, said switching means being operative to connect said



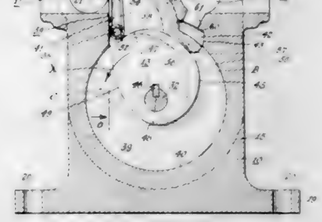
second gas-filled valve to said condenser through an electrical path including said resistance to discharge the said condenser once through said resistance upon the application of said non-periodic pulse to said second valve, and means for electrically coupling the voltage variations of said condenser to the deflecting elements of the oscillograph.

2,533,252

PUMP

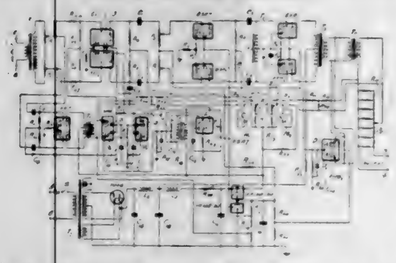
John N. Hinckley, Belmont, Mass.

Application April 20, 1945, Serial No. 589,405
6 Claims. (Cl. 103—124)



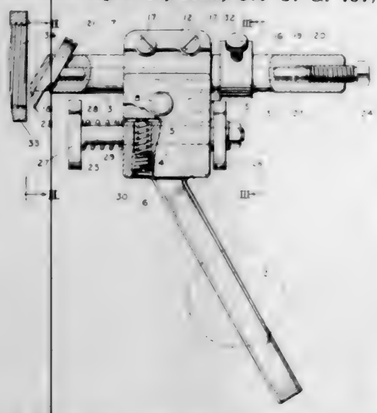
1. In a pump, a casing having a generally cylindrical chamber provided with closely associated first and second openings, said first opening having a first cylindrical surface, said second opening having a second cylindrical surface disposed on the opposite side of said second opening from said first cylindrical surface, a rotor having a drum cam surface in said chamber and whose maximum radius has sealing contact with the cylindrical wall of said chamber, an arm bearing on said cam surface, said arm having a separating wall with a cylindrical surface contacting the adjoining first cylindrical surface and a part cooperating with the adjoining second cylindrical surface, and a pivot for mounting said arm in said casing, the axis of said pivot being the axis of said first and second cylindrical surfaces.

2,533,253
AUTOMATIC REGULATING SYSTEM AND PEAK LIMITER
Royal V. Howard, San Francisco, Calif.
Application September 17, 1945, Serial No. 616,828
8 Claims. (Cl. 178—44)



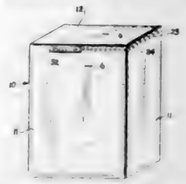
1. A combined signal level control and peak limiter for communication systems comprising a signal amplification channel and a program level control channel, circuits interconnecting the input systems of both of said channels, said signal amplification channel including a multiplicity of balanced electron tube circuits progressively coupled one to another and coupled to an output system and a multiplicity of coacting rectifier circuits disposed in said program level control channel and connected with said balanced electron tube circuits and excited by the currents incident upon the program level control channel for separately controlling the bias potential on each of the balanced electron tube circuits in the signal amplification channel to compensate for changes in the characteristics and peaks of the signal level in the input system of said signal amplification channel.

2,533,254
LATHE TOOL
Elgin B. Whigam, United States Navy, San Francisco, Calif.
Application September 10, 1945, Serial No. 615,487
5 Claims. (Cl. 82—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



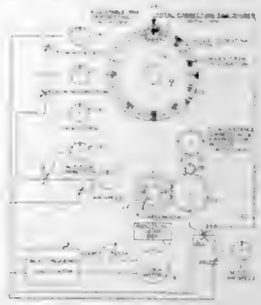
1. A lathe tool comprising a body having a longitudinal bore therethrough, means adapted to support the body in the tool post of a lathe, a block pivoted to said body for movement between a first position and a second position and having a latch member fixed thereto, a boring bar secured to said block for longitudinal adjustment thereon, a tool bit carried by said boring bar and being adapted to perform an interior cutting operation in material secured in the chuck of a lathe in the first position of said block and being free of a cutting so made in the second position of said block, spring means in said body urging said block to said second position, a plunger slidably supported in said longitudinal bore, means on said plunger adapted to contact said body to limit displacement of said plunger in said bore and adapted to contact said latch member to maintain said block in said first position against the action of said spring means, and means on said plunger engageable with material secured in the chuck of a lathe to free said latch member to move said block to said second position.

2,533,255
OPENING MEANS FOR CIGARETTE WRAPPERS
Theodore A. Will, Hollis, N. Y.
Application July 20, 1946, Serial No. 685,077
2 Claims. (Cl. 229—51)



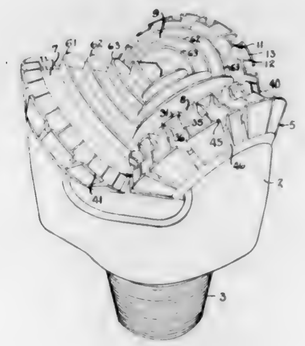
1. In a package having a wrapper formed of a plurality of adjacent plies of material, means for dividing off a portion of the wrapper to be separated from the remainder thereof for opening the package, comprising a tear strip extended along the innermost face of the inner ply of the wrapper dividing off the said portion, the plies of the wrapper being formed with aligned perforations, said aligned perforations being arranged closely adjacent one another in lines in alignment with said tear strip, and cement filling said aligned perforations securing the plies of the wrapper together and also securing said tear strip in position.

2,533,256
NAVIGATIONAL DATA INTEGRATOR
Harry Wilkie, Dayton, Ohio
Application June 28, 1945, Serial No. 602,137
9 Claims. (Cl. 235—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A navigation data integrating device for providing a moving craft with a continuous indication as to distances from point of departure and to point of destination, including two juxtaposed scales calibrated respectively in distance from point of departure and distance to point of destination, said scales being inversely correlated and longitudinally adjustable relative to each other, a mileage indicating needle movable along both of said scales simultaneously, a synchronous motor coupled to the mileage indicating needle to move the same along the said scales, a beat frequency oscillator coupled to the motor to control the operating speed of said motor according to the frequency of said oscillator so as to control the rate of movement of the said needle along said scales, said oscillator incorporating frequency adjusting means, said means being adjustable to vary the frequency of said oscillator and to thereby vary the rate of movement of the needle in accordance with factors affecting the ground speed made good of the craft.

2,533,257
DRILL CUTTER
Henry B. Woods and Floyd L. Scott, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application June 2, 1945, Serial No. 597,304
2 Claims. (Cl. 255—71)

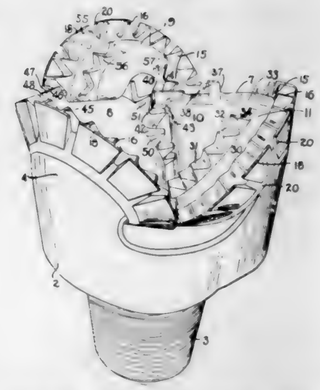


1. A cone type well drill including a head having mounted thereon a plurality of cones to roll upon and disintegrate the well bottom, a plurality of completely circular independent cutting elements having continuous annular crests spaced longitudinally of at least one of the cones, each cutting element including a body portion projecting at substantially right angles from the cone surface and having slightly tapered side surfaces joined at their outer ends by the continuous annular crest.

2,533,258
DRILL CUTTER
Erwin A. Morlan and Henry B. Woods, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application November 9, 1945, Serial No. 627,657
7 Claims. (Cl. 255—71)

1. In a well drill having a plurality of approximately conical shaped cutters mounted to roll upon the well bottom, a row of heel teeth on each of said cutters, cutting elements arranged in rows circumferentially about the cutters inwardly from the heel teeth, each element comprising a segment extending substantially one-sixth of the way around the cone, the segments in successive rows on a cutter being staggered circumferentially.

2,533,259
CLUSTER TOOTH CUTTER
Henry B. Woods and Floyd L. Scott, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application June 28, 1946, Serial No. 680,154
4 Claims. (Cl. 255—71)

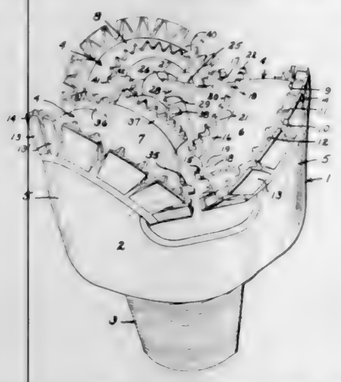


1. A cone type well drill including a head, three roller cones thereon, each of said cones having a plurality of segmental circumferential clusters of cutter teeth, with adjacent clusters longitudinally staggered on the cone, the spacing between successive clusters on the cone being sufficient that, during rotation of the cones, the clusters of each cone move in a path interfitting the paths of travel of spaced clusters on the two adjacent cones.

2,533,260
ROTARY DRILL BIT AND CUTTER THEREFOR
Henry B. Woods, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application October 7, 1946, Serial No. 701,743
9 Claims. (Cl. 255—71)

1. A rotary cone type drill comprising a body, a plurality of cones rotatably mounted thereon to roll upon the well bottom, cutter teeth lon-

gitudinally of said cones including at least one row of heel teeth, a plurality of segmental cutter elements on at least one of said cones inwardly of the heel teeth thereon, each of said cutter



elements comprising a projection disposed circumferentially of the cone, and a plurality of elemental cutter teeth on each of said projections and extending outwardly therefrom.

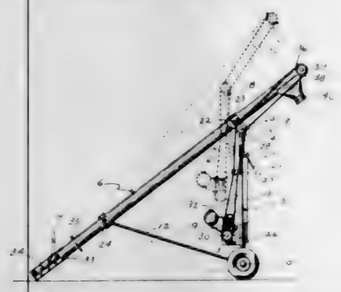
2,533,261

ADJUSTABLE ELEVATION GRAIN LOADER

John R. Howe, Denver, Colo.

Application August 27, 1947, Serial No. 770,811

6 Claims. (Cl. 198—233)



1. A grain loader comprising, in combination, a forwardly inclined elevator tube having a discharge at its upper end, a helical conveyor in said tube for moving grain from the lower end of said tube to said discharge, a frame comprising a vertical member and a substantially horizontal member rigidly associated with said vertical member and extending rearwardly therefrom, first means horizontally pivoting the rear end of said horizontal member to a lower portion of said tube, a vertically movable slide on said vertical member extensible above said vertical member, second means horizontally pivoting the upper end of said slide to an upper portion of said elevator tube, a cable drum mounted on said vertical member having a cable wound thereon and attached to a lower portion of said slide, a hand crank for turning said drum to raise and lower said slide so as to alter the angulation and elevation of said elevator tube above said frame, a motor mounted on said slide having a drive belt pulley, an intermediate dual pulley horizontally journalled on said slide coaxially with respect to said second pivoting means, a first belt operatively connecting said drive and intermediate pulleys, a driven pulley journalled on the upper part of said elevator tube and operatively connected to said helical conveyor, and a second belt operatively connecting said intermediate and driven pulleys.

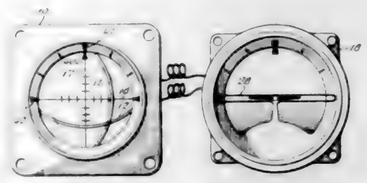
2,533,262

CROSS POINTER FLIGHT INSTRUMENT

Frederic A. Jenks, Rockville Centre, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Original application May 26, 1943, Serial No. 488,618. Divided and this application March 11, 1947, Serial No. 733,809

7 Claims. (Cl. 88—65)



1. An indicating meter of the cross pointer type comprising a transparent element having an opaque reference thereon, a pair of elongated arms movable relatively to one another in mutually perpendicular relation and movable relatively to the reference element, said arms being made of light polarizing translucent material whose respective polarizing planes are arranged in mutually perpendicular relation to provide a uniformly opaque index where the arms cross readable on the reference element, and means for illuminating said element and arms.

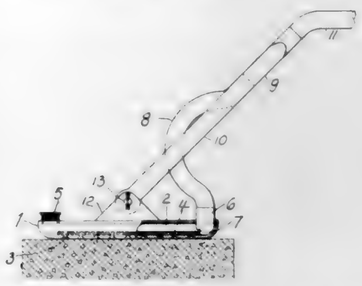
2,533,263

APPARATUS AND METHOD FOR REMOVING EXCESS MIXING WATER FROM PLASTIC CONCRETE

John Gunnar A. Johnson, New York, N. Y.

Application March 24, 1947, Serial No. 736,849

7 Claims. (Cl. 25—1)



3. A tool adapted to be applied to the surface of a plastic concrete mass to remove excess mixing water from the concrete comprising an air chamber, a perforated bottom thereof adapted to contact and apply suction to the concrete, a screener preventing solid matter to enter the chamber, an air admission at one end of the chamber and a suction intake to a vacuum line at the other end with a small restricted passage close to the bottom of the chamber.

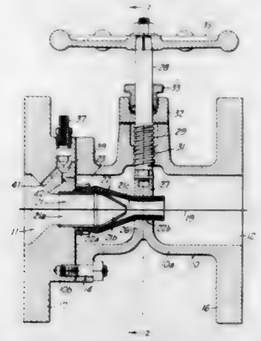
2,533,264

VALVE CONSTRUCTION FOR GAUGING TAPES

Peter C. Jurs, Oakland, Calif., assignor to Shand and Jurs Company, Berkeley, Calif., a partnership

Application October 11, 1946, Serial No. 702,804

3 Claims. (Cl. 73—319)



1. In a valve of the type adapted to close upon a tape, a valve body having inflow and outflow passages, members disposed within the body adapted to be moved toward or away from each other, a resilient sleeve disposed within the body and having one end of the same communicating with one of said passages, the other end portion of said sleeve being disposed between said members, and metal tape guiding means disposed within said sleeve and extending to a point in proximity with said other end portion.

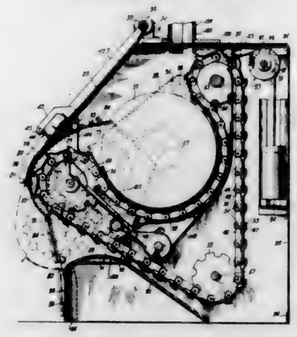
2,533,265

TUMBLING MILL

Walter L. Keefer, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

Application June 23, 1948, Serial No. 34,684

14 Claims. (Cl. 51—13)



1. In a tumbling mill and in combination, a casing having vertically spaced apart charging and discharging doorways and an intact portion therebetween, an endless reversible belt mounted in the casing having a section travelling in a substantially fixed path, and a second section travelling in alternate paths and forming, with the first section, a substantially semi-circular bottom wall of a work-receiving receptacle, the upper edge portion of the second section remote from the first section occupying, in the travel of the belt in one direction, a position adjacent the top of the lower doorway, and registering with said doorway in the travel of the belt in a reverse direction.

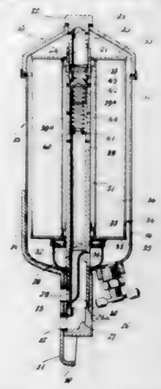
2,533,266

FILTER

Julius P. Kovacs, Newark, and William H. Hultgren, Roselle Park, N. J., assignors to PurOlator Products, Inc., Newark, N. J., a corporation of Delaware

Application March 13, 1946, Serial No. 654,342

18 Claims. (Cl. 210—183)



1. A filter comprising a stamped sheet metal bracket consisting of a flat first section having ports therethrough and a second section in the general form of half a cup, a cylindrical casing having one end seated in said second section, a pipe projecting through the bottom of said casing, a fitting receiving the end of said pipe and having passageways communicating with said ports, means in said pipe preventing intercommunication between said ports, a filtering unit in said casing, and means including said pipe for directing fluid flow from one port to the other through said filtering unit.

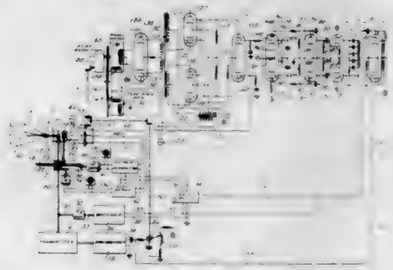
2,533,267

TRACKING APPARATUS

Joseph H. Lancor, Jr., East Williston, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application September 8, 1944, Serial No. 553,191

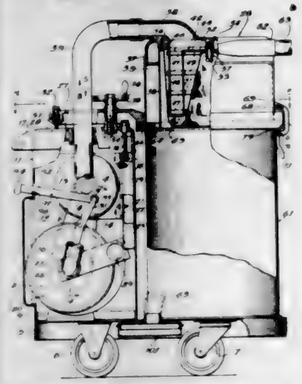
26 Claims. (Cl. 343—11)



1. An object detecting system comprising directional means for radiating electromagnetic energy having its directional characteristic rotated about an axis, means for receiving that portion of energy

reflected from an object, means controlled by said rotation for developing a reference signal, and means for producing a phase shift between the modulation envelope of received energy and said reference signal according to the range of a detected object.

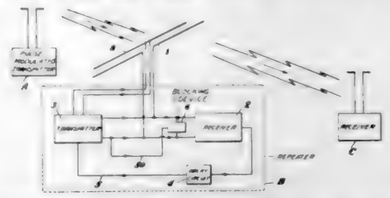
2,533,268
COMBINED BLOWER AND VACUUM CLEANER
Clarence W. Lanter, Bartlett, Ill., assignor to Breuer Electric Mfg. Company, Chicago, Ill., a corporation of Illinois
Application July 24, 1947, Serial No. 763,376
7 Claims. (Cl. 183—35)



1. In a combined blower and vacuum cleaner, a dirt receptacle formed with an opening at its upper end, an inverted cup-shaped filter head detachably mounted upon and forming a cover for said dirt receptacle, said filter head being provided at its upper end with a tangentially disposed air inlet, said filter head being provided with an air outlet disposed adjacent the top center thereof, a filter frame mounted within said filter head, a flexible bag-type filter screen mounted over said filter frame and arranged to enclose the latter and to filter dirt from an air stream passing outwardly through said filter head air outlet, a centrifugal fan having an air inlet and an air outlet, an air conduit having its one end connected to said filter head air outlet and its other end in register with the air inlet of said centrifugal fan, and a tubular filter bag guard mounted within said filter head to form therewith an annular passage leading downwardly from said filter head air inlet to cause an inwardly flowing stream of air to move downwardly along a helical path from said filter head air inlet into said dirt receptacle, whereby dirt entrained in the air stream is directed toward the inner wall of the dirt receptacle.

2,533,269
PULSE RADIO COMMUNICATION SYSTEM
Gerard J. Lehmann, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 10, 1943, Serial No. 490,277
In France August 29, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires August 29, 1961
20 Claims. (Cl. 250—15)

1. In an intelligence transmission system, a source of intelligence characterizing pulsed signals, a receiver for said pulsed signals, and one or more repeaters intermediate said source and said receiver, each repeater including means receiving said pulsed signals, means retransmitting said pulsed signals, time delay means energizing said retransmitting means upon reception of the



pulsed signals by said receiving means, and means at least at one repeater controlled by said retransmitting means and controlling said receiving means during retransmission to render said receiving means unresponsive to at least a portion of the energy of said retransmitting means.

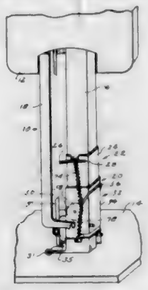
2,533,270
ALKYD RESINS
Olive-Sue Linkletter, Englewood, and Joyce L. Johnson, Fair Lawn, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application November 26, 1946, Serial No. 712,256
9 Claims. (Cl. 260—22)

1. An alkyd resin consisting essentially of the reaction product of (1) a partial ester of 0.55 to 0.8 mol of pentaerythritol with 1 mol of a high molecular weight unsaturated fatty acid having from 16 to 20 carbon atoms and 2 to 4 double bonds, (2) an adduct of an alpha-unsaturated dicarboxylic acid and a terpene, and (3) a trimethylol derivative selected from the group consisting of 1,1,1-trimethylol ethane and 1,1,1-trimethylol propane, the molar ratio of the adduct to the partial ester ranging from 0.6:1 to 1:1, said alkyd resin having a free hydroxyl percentage ranging from 1 to 3, a maximum acid number of 25, and a maximum gel time of 25 seconds on a cure plate maintained at a temperature of 190° C.

2,533,271
ROAD VEHICLE
Carl R. Livermon, Roxobel, N. C.
Application February 28, 1945, Serial No. 580,102
5 Claims. (Cl. 305—9)

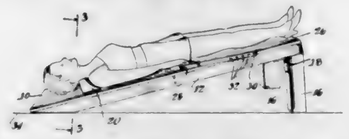
1. A land vehicle comprising a frame, at least two pairs of traction units connected to said frame to carry the same, said traction units each comprising two alined wheels with grooved traction surfaces with independent endless flexible belts running in each groove, the traction units of each pair being connected side by side to said frame to move in parallel paths and the two pairs of traction units being connected in alignment to said frame to travel in the same path, and a common axle for the front wheel of the rear traction unit and the rear wheel of the front traction unit on each side of said vehicle.

2,533,272
ANTIVIBRATION ATTACHMENT FOR "DOALL" MACHINES
Thomas W. G. Lyons, Banning, Calif.
Application June 1, 1949, Serial No. 96,607
7 Claims. (Cl. 143—157)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



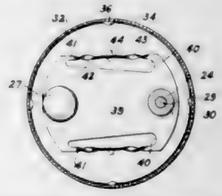
1. An antivibration attachment for sawing large sheets on a band saw which comprises an inner frame with a pressure foot on the lower end, said inner frame being adapted to fit around and be vertically slidable on the lower end of a band saw post, an outer frame surrounding and vertically slidable with respect to said inner frame but fixed with respect to said band saw post, an operating lever fulcrumed on the outside of said outer frame, a resilient means connecting the load point on said operating lever to the upper end of said inner frame, and a resilient means connecting the said load point to the lower end of said inner frame.

2,533,273
EXERCISING EQUIPMENT
May MacGregor, New York, N. Y.
Application March 13, 1946, Serial No. 654,145
1 Claim. (Cl. 272—58)



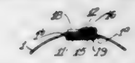
Exercising equipment for health and beauty consisting essentially of an inclined platform adapted to rest at one end directly upon a horizontal floor and of width somewhat greater than and of length about the same at least as that of the human body, legs serving as supports for the other end of the platform that is the upper end when the platform is in use, means securing the legs to the platform at a position adjacent to the said other end, the legs being of length to maintain the platform during use at an established angle of inclination of approximately 12° to 22° to the horizontal, two spaced shoulder pads shaped to conform generally to human shoulders and defining therebetween a space of size to receive the human neck, a padded element intermediate the said pads constituting a neck rest, and means supporting these pads and the neck rest upon the platform at a position near to but spaced from the lower end thereof by a distance at least equal approximately to the length of the human head, so that the portion of the platform below the shoulder pads and neck rest constitutes a head rest.

2,533,274
BIMETALLIC THERMOSTATIC ELEMENT
Victor E. Matulaitis and Peter M. Byam, Rochester, N. Y., assignors to Fasco Industries, Inc., a corporation of New York
Application November 28, 1944, Serial No. 565,556
16 Claims. (Cl. 297—15)



1. A thermostatic element comprising a body member of bimetallic sheet material, a restraining member connected between spaced portions of said body member and twisted mechanically to stress said body member for snap action, to resolve the tension on said restraining member into transverse and longitudinal components and to provide mechanical resistances in direct opposition to said transverse components, and a compensating portion operatively connected to said body member and having a thermal characteristic in opposition to and such as to maintain the mechanical stress in said body member substantially constant with changes in the ambient temperature.

2,533,275
STRAP FASTENING MEANS
Michael J. McAneny, Hillsboro, N. Mex.
Application May 26, 1944, Serial No. 537,407
3 Claims. (Cl. 24—23)



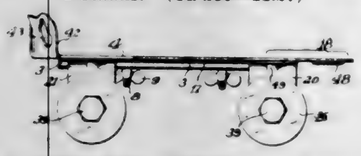
1. In a fastening means of the class described, a buckle comprising a plate folded intermediate its opposite edges upon itself forming inner and outer plate portions, there being provided a slot at and between the ends of the fold, the free edge of the outer plate portion having a reinforcing plate portion folded backwardly against the outer side thereof, whereby to receive one bendable strap end extending between the first mentioned plate portions, threaded through said slot, and folded against the underside of the inner plate portion, and another bendable strap end extending in the opposite direction through the slot and folded around the free edge of the outer plate portion and over the outer side of and off set inwardly over the free edge of the reinforcing plate portion, said outer plate portion having means for securing a strap end inwardly of the outer side of the reinforcing plate.

2,533,276
PREPARATION OF ESTER-ACETALS
Charles H. McKeever, Glenside, and George H. Agnew, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application July 26, 1949, Serial No. 106,984
4 Claims. (Cl. 260—410.9)

1. A process for the preparation of ester-acetals which comprises reacting, at a pressure of 1000 to 4000 lbs. per square inch and at a temperature of 80° C. to 200° C., a mixture of

carbon monoxide, hydrogen, an alcohol from the class consisting of methanol and ethanol, and an ester having the general structural formula (R)COOR' in which (R) represents a monovalent, aliphatic, hydrocarbon radical of 2 to 21 carbon atoms containing one double bond and R' is a monovalent, hydrocarbon radical which is free of non-benzenoid unsaturation and which contains 1 to 12 carbon atoms, in the presence of 0.001 to 0.05 mole per cent, based on said ester, of a dissolved cobalt catalyst from the class consisting of cobalt carbonyl and organic acid salts of cobalt which are free of non-benzenoid unsaturation and which are soluble in said mixture, and separating the resultant acetal from the reaction mixture.

2,533,277
ROLLER SKATE CONSTRUCTION
Harry R. Miller, Philadelphia, Pa., assignor to George K. Garrett Company, Inc., Philadelphia, Pa., a corporation of Delaware
Application February 7, 1946, Serial No. 646,129
4 Claims. (Cl. 280—11.27)

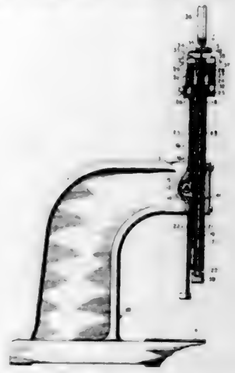


1. A roller skate including a sheet-metal chassis, a pair of generally U-shaped axle-supporting brackets secured to said chassis, each of said brackets having aligned axle-holes in the sides thereof, an axle extending through the holes of each bracket and protruding appreciably beyond the sides of said bracket and constructed and arranged to carry wheel-members upon its protruding portions, and a pair of spaced axle-gripping tabs integrally struck out of and extending upwardly from the bottom of each U-shaped bracket, said tabs having notches formed at their upper ends in alignment with the axle-holes and constructed and arranged to engage the bottom of the axle and to prevent the axle from rotating.

2,533,278
PREPARATION OF BEAD HYDROGEL AND APPARATUS THEREFOR
Thomas Henry Milliken, Jr., Rose Valley, and Edward H. Lebeis, Jr., Green Ridge, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application April 24, 1945, Serial No. 590,068
7 Claims. (Cl. 252—448)

6. The method of producing pieces of hydrogel which comprises: supplying to a mixing zone reactant solutions forming a liquid reaction mixture capable of setting to a hydrogel, agitating and admixing the solutions so supplied in said mixing zone to form such liquid reaction mixture, continuously flowing the reaction mixture to a distributing zone, and ejecting substantially horizontally a stream of the reaction mixture from said distributing zone before the reaction mixture has set to hydrogel, said reactant solutions being supplied to said mixing zone at a controlled rate, which rate determines the rate of flow of the reaction mixture to said distributing zone and thereby fixes the linear rate of ejection of the stream of reaction mixture from said distributing zone, circumferentially moving said distributing zone in a direction approximately horizontally opposite to the direction of ejection of the stream therefrom and about a vertical axis to thereby continuously move the point of ejection of said stream over a locus defined by a circular path, and maintaining the rate of circumferential movement of said distributing zone equal to the linear rate of ejection of said stream therefrom, whereby the horizontal components of forces acting on said reaction mixture so ejected are equal and said ejected reaction mixture is caused to fall upon ejection in approximately vertical direction, and admitting the reaction mixture so ejected to a gelation zone.

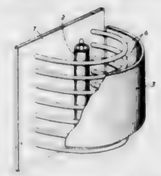
2,533,279
PRESSURE INDICATING ARBOR PRESS
Harry H. Moore, Washington, D. C., and Carroll L. Johnson, Hyattsville, Md.
Application September 24, 1946, Serial No. 699,066
8 Claims. (Cl. 73—141)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An arbor press of the type described, a pair of coaxial ram members supported one within the other for relative longitudinal motion, a plurality of friction reducing balls disposed between said pair of ram members, means including a spring for maintaining said friction reducing balls between said rams, means for driving the outer ram member under control of an operator, a rigid support secured to the upper end of said outer ram member and comprising a pair of spaced transverse bars, resilient means attached to said support and disposed between said bars for driving the inner ram member when the outer ram member is driven, said resilient means being yieldable in proportion to the force applied thereby, and means controlled by the yielding of said resilient means for indicating the degree of driving force applied, whereby the driving force may be limited at will by the operator when a predetermined force is exerted by the press.

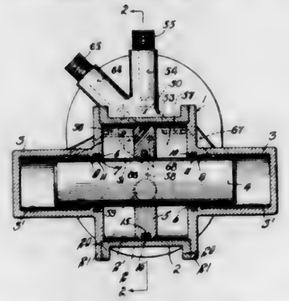
2,533,280
MULTIUNIT VACUUM TUBE
Jean Jacques Muller, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 31, 1947, Serial No. 765,163
In France March 16, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 16, 1963
1 Claim. (Cl. 250—27.5)

An electron discharge device which comprises a gas-tight envelope, a metallic partition within and attached to said envelope which subdivides the envelope interior into a plurality of chambers, a plurality of anodes and a plurality of cathodes, one of each being supported within each of said chambers, a plurality of grid elements, one being in each chamber disposed between the anode and the cathode therein, said



grid elements being constituted of a single wire helix wound around and being both mechanically and electrically connected to said partition whereby, during operation of the device, the grids and the partition are at equipotential and the partition also electrically shields the chambers relative to each other.

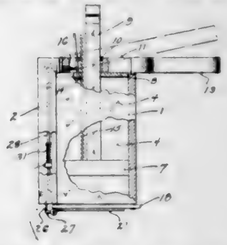
2,533,281
BEVERAGE DISPENSING DEVICE
John V. Oliveau, Mineola, N. Y., assignor, by mesne assignments, to Cleveland-Detroit Corporation, a corporation of Delaware
Application August 19, 1946, Serial No. 691,552
20 Claims. (Cl. 225—21)



1. A measuring cylinder unit for mixed beverage dispensing machines comprising a housing having walls forming aligned syrup cylinders spaced apart from each other by a water cylinder therebetween, composite piston means reciprocable within said cylinders, water lubricated sealing means between said piston means and said syrup cylinders, the said sealing means separating the water and syrup cylinder spaces, a valve structure for simultaneously filling the syrup and water cylinders to one side of the said piston means and for simultaneously discharging the liquids from the syrup and water cylinders to the other side of said piston means, and internal passages formed entirely within the said housing walls of drilled holes for connecting the said cylinder spaces with the said valve structure.

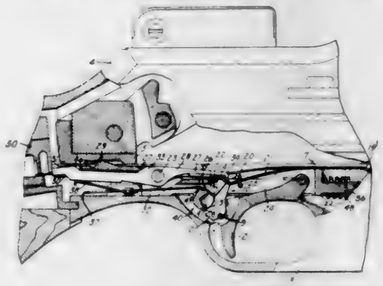
2,533,282
DISPENSER FOR SHORTENING HAVING AN EXTRUDING PISTON OPERATIVELY CONNECTED TO THE CLOSURE FOR THE DISPENSING OPENING
Ralph T. Osman, Whitefish Bay, Wis.
Application January 9, 1947, Serial No. 721,035
3 Claims. (Cl. 222—391)

2. In a shortening dispenser of the type wherein downward motion of a piston in the interior of the dispenser body effects extrusion of shortening in the body through a restricted aperture in the bottom wall of the body: an operating lever mounted on the top of the body for oscillatory motion about a substantially horizontal axis adjacent to one side of the dispenser body; a pawl and ratchet connection between the lever and piston whereby oscillatory motion of the operating lever is translated into downward motion of the piston; a cover for closing said aperture in the bottom wall of the body; a hinge connection



between the body and said cover having its axis parallel to but vertically spaced from the axis of the operating lever; means biasing the cover to an open position swung away from the opening in the bottom wall of the body; and means for releasably latching said cover in an operative position closing the aperture in the bottom wall of the body, said means comprising a bell crank and link connection between the operating lever and the cover operable upon initial actuation of the operating lever to effect release of said latch means to allow the cover to open.

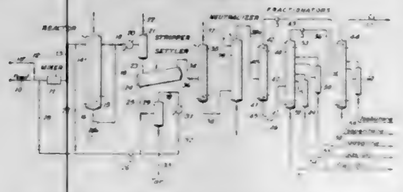
2,533,283
TRIGGER MECHANISM
Albert C. Pierce, United States Marine Corps
Application July 26, 1946, Serial No. 686,277
1 Claim. (Cl. 89—142)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In an automatic firearm having a trigger slotted to form a pair of bifurcated shoulders, a slide reciprocable between a recoiled and a battery position, a pivotal sear arranged to engage and retain the slide in the recoiled position, reciprocable sear release means operative on the rear end of the sear for pivoting the latter to disengage from the slide, a stop lever jointly pivoted with the sear and normally positioned to block the sear-actuating movement of the sear release means and resilient means for returning the sear and the stop lever to their original unpivoted position, the combination of, an auxiliary member pivotally carried by the trigger and oper-

ative on the front end of the sear for pivoting the latter to disengage from the slide, a rotatable member transversely mounted in the firearm and having an outwardly projecting handle portion, said member having four longitudinal spaced grooves about the periphery thereof and a cutaway portion intersecting two of said four grooves, said cutaway portion being formed by a pair of slots substantially parallel to the vertical axis of said handle portion and a groove medially connecting said slots and of increased depth relative thereto, and means for selectively positioning said rotatable member with any one of said four longitudinal grooves in the uppermost position whereby three different classes of fire and a safe position are individually obtained upon actuation of the trigger, said cutaway portion being inclined relative to the vertical so as to permit the trigger shoulders to bottom therein when said rotatable member is located with said third peripheral groove in the uppermost position, said auxiliary member being constructed and arranged so as to pivot sufficiently forward upon actuation by the trigger to bypass the front end of the stop lever whereupon the rear end of the lever will be in position to block the sear-disengaging movement of the sear release means and thereby produce semi-automatic fire in that another cycle of trigger actuation is required to again release the sear from the recoiled position.

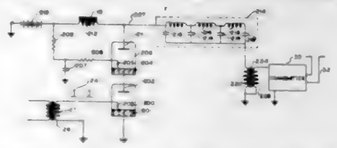
2,533,284
CATALYTIC HYDROCARBON CONVERSION
John A. Ridgway, Jr., Texas City, Tex., and Philip Hill, Hammond, Ind., assignors to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware
Application December 27, 1946, Serial No. 718,817
4 Claims. (Cl. 196—52)



1. In the process of manufacturing gasoline by cracking heavier hydrocarbon oils in the presence of a catalyst consisting essentially of hydrogen fluoride, wherein said oil is intimately contacted with said hydrogen fluoride in a reaction zone at a temperature above about 100° C. and under sufficient pressure to maintain a liquid catalyst phase in said reaction zone, gasoline is produced in said reaction zone concurrently with the production of unsaturated tarry products soluble in said catalyst phase, withdrawn from said reaction zone and separated from catalyst, the improvement comprising maintaining within said reaction zone an amount of said tarry products substantially in excess of the amount produced in once-thru conversion of said hydrocarbon oils.

2,533,285
LINE PULSE MODULATOR
Irving Sager, Deal, N. J.
Application July 6, 1944, Serial No. 543,741
12 Claims. (Cl. 250—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A line pulse modulator including first and second gaseous discharge paths connected in series, a source of potential connected across said discharge paths, an artificial line connected to said source of potential and forming a parallel circuit with said discharge paths, a source of pulses connected to and capable of ionizing said

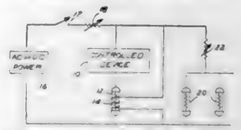


first path, and resistor means connecting said second discharge path to said source of potential for ionizing said second path upon the ionization of said first path whereby said artificial line discharges through said two paths in series.

2,533,286
HEAT SENSITIVE CIRCUITS
Otto H. Schmitt, Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application July 22, 1946, Serial No. 685,349
5 Claims. (Cl. 219—20)

5. In a thermistor system having a responsive thermistor, a heating element therefor and a supply circuit therefor, said supply circuit having first and second input terminals and first and second output terminals, a first thermistor and first resistor in series therewith connected between the first input and second output terminals, a second thermistor and second resistor in series therewith connected between the second input and first output terminals, a third thermistor and third resistor in parallel therewith connected between the first input and first output terminals and a fourth thermistor and fourth resistor connected between the second input and second output terminals, and a common enclosure for said thermistors, said heating element being connected to the first and second output terminals of the supply circuit.

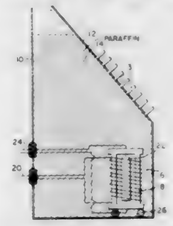
2,533,287
THERMISTOR SYSTEM
Otto H. Schmitt, Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application July 22, 1946, Serial No. 685,350
2 Claims. (Cl. 323—68)



1. A series circuit, a circuit interrupter, an impedance, an controlled device and a thermistor connected in series, a first parallel branch having

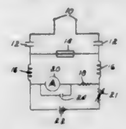
a heater element therein which is positioned so as to heat the thermistor and a second parallel branch having a resister in series with a thermistor which has a negative thermal coefficient of resistance, each said parallel branch being connected in parallel with that portion of the series circuit which includes the serially connected control device and thermistor.

2,533,288
TEMPERATURE STABILIZATION
Otto H. Schmitt, Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application July 22, 1946, Serial No. 685,354
7 Claims. (Cl. 236—1)



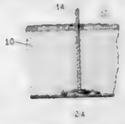
2. Apparatus comprising a device having a thermal coefficient of functional variation and the temperature of which is to be stabilized, a heater, said device and heater being positioned in heat conducting relation to each other in a mass of fusible material which is in contact with the heater and device, said fusible material having a relatively low heat conductivity when in the solid state and having a fusion point temperature which is appreciably above normal operating ambient temperature, whereby a portion of said material adjacent said heater and device will be heated thereby to form a fused pool, the unfused portion of material serving to absorb and conduct heat from said fused pool, said fused pool increasing in volume in response to an increase in ambient temperature.

2,533,289
THERMISTOR HIGH-FREQUENCY AMMETER
Otto H. Schmitt, Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application August 1, 1946, Serial No. 687,654
4 Claims. (Cl. 171—95)



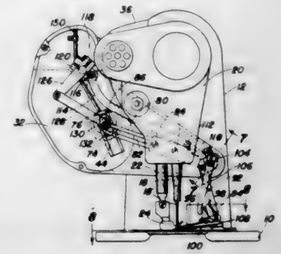
1. A system of alternating current measurements, a first circuit consisting of condenser means and temperature variable resistance means connected in series for conducting the alternating current therethrough, and a circuit in parallel with only the temperature variable resistance means including an inductance for blocking the flow of alternating current through said parallel circuit, a first resistor and a direct current meter all connected in series and a source of direct current having a second resistor in series therewith connected across the portion of said parallel circuit which includes the meter and said first resistor.

2,533,290
CANDLE
Hubert A. Shaw, Hyannis, Mass.
Application October 26, 1948, Serial No. 56,623
4 Claims. (Cl. 67—22)



2. A candle comprising a dish-shaped casing of bright metal foil having crimped side walls and a crimped outturned lip, a body of wax substantially filling said casing, and a wick embedded in said wax.

2,533,291
RUFFLER ATTACHMENT FOR SEWING MACHINES
Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York
Application June 23, 1947, Serial No. 756,447
10 Claims. (Cl. 112—134)

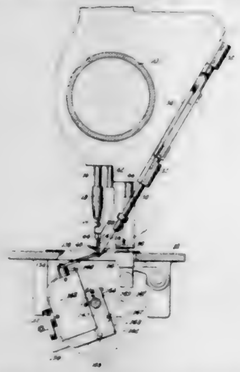


1. In combination with a sewing machine having a supporting arm for stitching mechanism and a main operating shaft mounted therein; a ruffler attachment comprising an elongated housing structure of substantially coextensive length with the machine arm and means for rigidly mounting said structure on the rear side of said arm, said housing structure at one end having a part extending downwardly and forwardly beneath the machine arm adjacent to the stitching mechanism, a ruffling blade mounted on the lower end of said housing part, actuating mechanism for said blade mounted in the housing structure including a rock shaft, the housing wall at its other end having an opening communicating with the interior of the machine arm and means operatively connecting said rock shaft through said opening within the other end of said housing structure to the main shaft of the machine.

2,533,292
MULTIPLE NEEDLE STITCHING MECHANISM
Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York
Application October 22, 1947, Serial No. 781,348
19 Claims. (Cl. 112—98)

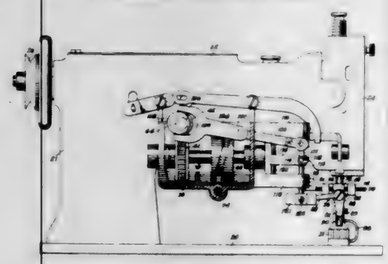
13. In stitching mechanism having a pair of vertically reciprocating hook needles mounted above the machine bed, and transversely spaced apart with respect to the line of feed of the work and a main operating shaft for said needles; a four-motion work feeding dog mounted below the machine bed, means operable in each feeding movement of the work to carry the individual

threads from perforations last formed in the work by the respective needles to a diagonally opposite needle and position the same for engagement in the needle hooks in the following stitch forming operation thereof, means for actuating said thread carrying means, a shaft jour-



nalled beneath the machine bed and driven from said main operating shaft, and means operatively connecting the latter shaft with said actuating means and said work feeding dog to operate the thread carrying means and feed dog in timed relation with the reciprocation of said needles.

2,533,293
FILLER FEEDING MECHANISM FOR SEWING MACHINES
Victor J. Sigoda, Great Neck, N. Y., assignor to Man-Sew Corporation, New York, N. Y., a corporation of New York
Application April 5, 1948, Serial No. 18,953
9 Claims. (Cl. 112—98)

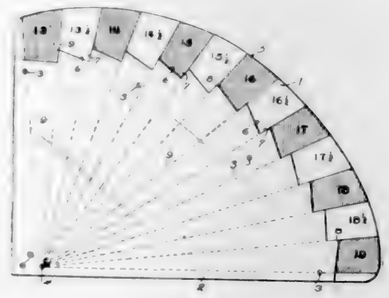


1. In a sewing machine of the type having continuously rotating, horizontal main and transverse shafts from which a vertically reciprocating, laterally vibrating needle bar is actuated; filler-feeding mechanism comprising a lever supported between its ends on a horizontal pivot, driving means connecting one end of said lever with said transverse shaft to oscillate the lever as the shaft rotates thereby causing the other end to move vertically, a filler-feeder having downwardly and laterally extending arms and rotatably supported at the junction of its arms on a horizontal pivot in the vicinity of the needle bar, said downwardly extending arm comprising filler guiding means, and means connecting the laterally extending arm with the other end of said lever, whereby the vertical movement of said other end produces a lateral swinging movement of said guiding means.

2,533,294
EXTRACTION OF TYPE A SPECIFIC SUBSTANCE
Heron O. Singher, Red Hook, N. Y., and Charles R. Harmison, Somerville, N. J., assignors to Ortho Pharmaceutical Corporation, a corporation of New Jersey
No Drawing. Application September 14, 1946, Serial No. 697,162
2 Claims. (Cl. 167—74)

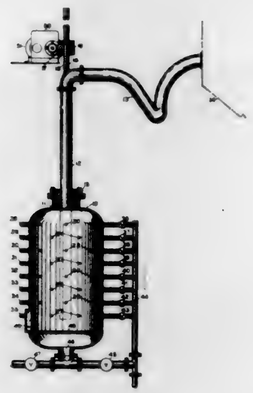
2. The method of extracting specific type A substance from hog gastric mucin, free from preservative or disinfectant, comprising treating hog gastric mucin with an aqueous solution of an amino acid, said solution having a dielectric increment in the range of from 0.306 to 2.75 Debye units.

2,533,295
GAUGE FOR SHIRT COLLARS
John Wesley Starbuck, New York, N. Y.
Application December 28, 1945, Serial No. 637,759
2 Claims. (Cl. 33—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A gage for measuring collars, comprising a flat three-sided plate, one side being straight and slightly longer than the size of a small collar, another side being straight and slightly longer than the size of a large collar, said two sides intersecting at a wide angle, a buttonhole-engaging stud proximate the point of intersection of said two sides, the third side joining the free ends of said first-named two sides and having a series of notches with button-engaging shoulders, said shoulders being arranged along a spiral arcuate line curving around said buttonhole-engaging stud and disposed in a fan-like arrangement and at a progressively increasing distance from said buttonhole-engaging stud, the distance of each notch from said stud being equal to a predetermined standard collar size, and an extension beyond the notched edge of said flat plate, said extension having a top surface below the top surface of said flat plate and carrying a progressive series of collar size numbers in alignment with said series of notches, whereby the size of a collar may be speedily and accurately gaged by engaging its buttonhole with said stud and engaging the collar button in the notch registering with said collar button when said collar is stretched taut over said flat plate.

2,533,296
EXTRACTOR PROVIDED WITH MEANS FOR UNLOADING IT
Joseph Stuart, II, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application August 15, 1947, Serial No. 768,923
2 Claims. (Cl. 214—17)

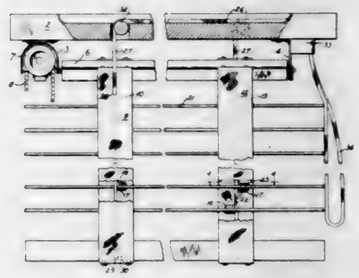


1. An extractor comprising a tank, a porthole in the top of the tank, a close fitting flue slidably disposed in said porthole, said flue having sufficient length to extend from the porthole to the bottom of the tank, a plurality of steam ports at spaced levels from top to bottom of said tank, means for opening and closing said ports at each level independently, and means for lowering said flue to the lower part of the tank.

2,533,297
PRODUCTION OF INSOLUBILIZED PROTEIN ARTIFICIAL FILAMENTARY PRODUCTS
Robin H. K. Thomson, Kilwinning, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 2, 1946, Serial No. 681,153. In Great Britain August 22, 1945
11 Claims. (Cl. 8—127.6)

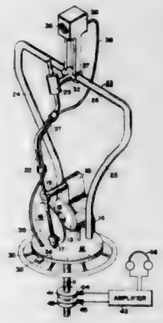
1. A method of insolubilizing artificial filamentary products obtained by spinning aqueous, alkaline solutions of proteins into acidified saline coagulating baths which comprises treating the coagulated filamentary products, having a solubility substantially the same as that immediately after coagulation, for up to about fifteen minutes, at a temperature not exceeding 60° C. with an aqueous, formaldehyde solution having a pH of between about 4 to 6, which is saturated to both sodium chloride and a sulphate from the group consisting of sodium sulphate and magnesium sulphate at said temperature, and immediately thereafter treating the resulting products at a temperature not exceeding 75° C. for up to about fifteen minutes in an aqueous formaldehyde solution containing at least 175 grams per liter of sulphuric acid, which is saturated, at the treatment temperature, with a sulphate from the group consisting of sodium sulphate and magnesium sulphate.

2,533,298
VENETIAN BLIND
Charles D. Walker, San Francisco, Calif., assignor, by mesne assignments, to Calnetian Blinds, Incorporated, Oakland, Calif., a corporation of California
Application February 16, 1946, Serial No. 648,044
3 Claims. (Cl. 160—178)



1. A blind structure comprising a pair of vertically disposed supporting webs, a plurality of rungs transversely disposed at intervals between the webs and fixed at their ends thereto, a slat lying on each rung, and means including a loop around the rung and a snap fastener between the loop and slat for releasing the slat from the loop and rung and for securing the slat to the rung in transversely slidable relation to the webs.

2,533,299
METHOD OF DIRECTION FINDING
Edward C. Walsh, Washington, D. C.
Application June 24, 1948, Serial No. 34,993
2 Claims. (Cl. 177—352.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a device for determining the direction to a source of sound, a sound responsive element adapted to respond to sound received from said source of sound, amplifying means associated with said sound responsive element to amplify the response thereof, and reproducing means for reproducing said amplified sound, a linear guide, a support for said sound responsive element movable on said guide, an electric motor having eccentric means mounted on its shaft, a lever having a fixed fulcrum and mechanically asso-

ciated to said support for said sound responsive element and to said eccentric means to impart to said sound responsive element a reciprocating motion along said linear guide whereby the movement of said sound responsive element relative to said sound source produces a variation in the apparent frequency of the received sound and means for orienting said linear guide to a direction perpendicular to the direction of said source of sound wherein said variations in apparent frequency are minimized.

2,533,300

MORPHOLINE MAHOGANY SULFONATE AS A RUST INHIBITOR FOR PETROLEUM OILS

Franklin M. Watkins, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 31, 1945, Serial No. 638,582
12 Claims. (Cl. 252—34)

1. A composition of matter which consists essentially of a petroleum oil and a corrosion inhibitor, said inhibitor being morpholine mahogany sulfonate.

2,533,301

PREVENTION OF RUST

Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 26, 1947, Serial No. 776,415
7 Claims. (Cl. 44—74)

1. The method of inhibiting the rusting of iron and steel surfaces which comprises maintaining a suitably concentrated petroleum oil distillate solution of cyclohexylamine mahogany sulfonate in contact with such surfaces, said petroleum oil distillate being selected from the group consisting of gasoline, kerosene and fuel oil.

2,533,302

PREVENTION OF RUST

Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 26, 1947, Serial No. 776,416
7 Claims. (Cl. 44—75)

1. The method of inhibiting the rusting of iron and steel surfaces which comprises maintaining a suitably concentrated petroleum oil distillate solution of p-aminophenol mahogany sulfonate in contact with such surfaces, said petroleum oil distillate being selected from the group consisting of gasoline, kerosene and fuel oil.

2,533,303

PREVENTION OF RUST

Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 9, 1947, Serial No. 778,753
4 Claims. (Cl. 44—76)

1. Method of retarding internal corrosion of pipe lines containing iron which comprises incorporating in the light petroleum distillate charged to the pipe line from 1 to 100 parts per million of a material from the group consisting of petroleum mahogany sulfonic acids and petroleum mahogany sulfonates.

2,533,304

PREVENTION OF RUST

Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 28, 1947, Serial No. 782,696
4 Claims. (Cl. 44—76)

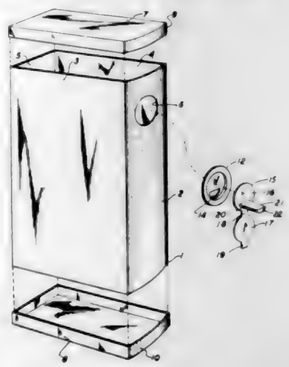
1. A petroleum oil distillate to which a rust-inhibiting property has been imparted by the incorporation of 1 to 100 parts per million of triamylamine mahogany sulfonate.

2,533,305

FLEXIBLE POURING SPOUT STRUCTURE FOR LIQUID CONTAINERS

Lloyd J. Wells, El Monte, Calif.

Application June 18, 1946, Serial No. 677,553
10 Claims. (Cl. 222—528)



1. In a liquid container the combination of: a container wall having an opening therein; a cup-like, countersunk insert member secured in said opening and providing an exteriorly directed recess and having a flange sealed on the said wall of said container, said insert member having an opening therein to communicate with a spout; a flexible, collapsible tubular spout disposed in communication with said opening in said insert member, said spout being of relatively small transverse dimension compared with that of said recess whereby opposing inner walls of said spout fold into contact with one another to prevent flow through said spout, said spout being short enough for folding entirely within said recess; and friction closure cap means fitting snugly within the walls of said recess in said countersunk insert member and outside said spout, when folded, for retention of said spout in folded condition within said recess.

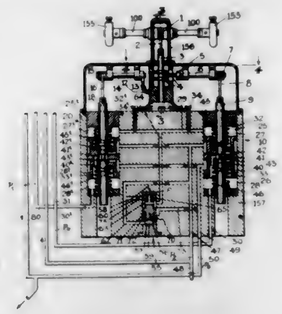
2,533,306

HYDRAULIC FOLLOW-UP SYSTEM

William H. Newell, New York, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Original application May 5, 1944, Serial No. 534,330. Divided and this application May 17, 1945, Serial No. 594,288
5 Claims. (Cl. 121—46.5)

1. A pressure control valve comprising a valve housing, a sleeve in said housing forming fluid chambers at its two ends, spring means balancing said sleeve, means supplying fluid at a fixed intermediate pressure to one of said end chambers, a high pressure chamber, a low pressure chamber, a plunger movable in said sleeve and passages adapted to selectively connect said high pressure chamber or said low pressure chamber to the other of said end chambers for causing said sleeve to follow said plunger and to establish a pressure



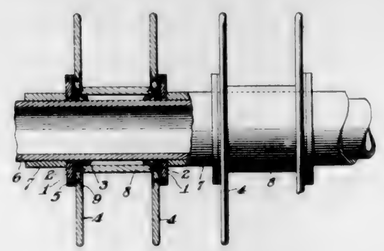
difference between said end chambers to counterbalance the unbalance of the spring pressures acting on the ends of said sleeve due to movement of said sleeve from its balanced position and means deriving a control pressure from said last chamber.

2,533,307

CONSTANT TORQUE WINDING MEANS FOR SLITTING MACHINES

Stephen Earl Amos, Wilmington, Del., and Douglas Creelman Jeffrey, Jr., Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 16, 1948, Serial No. 39,114
3 Claims. (Cl. 242—75)



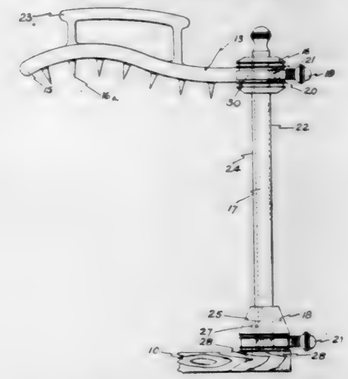
1. In a wind-up device for a slitting machine comprising a positively driven wind-up mandrel, a core fitted over a portion of the length of said mandrel upon which slit pellicular material is wound and a spacing sleeve fitted over said mandrel and fixed to said mandrel for rotation therewith, an end of said spacing sleeve being maintained in frictional driving relationship with an end of said core whereby rotation of said mandrel and said spacing sleeve imparts rotation to said core, the improvement which comprises annular means interposed between said spacing sleeve and said core, said annular means being supported and freely rotatable on said mandrel by means of frictionless bearings, and being further constructed to support said core out of contact with said mandrel and in fixed position with respect to said annular means.

2,533,308

MEAT HOLDING DEVICE

Philip Betten and Maxwell Lehrhaupt, Brooklyn, N. Y.

Application June 7, 1946, Serial No. 675,046
2 Claims. (Cl. 146—218)



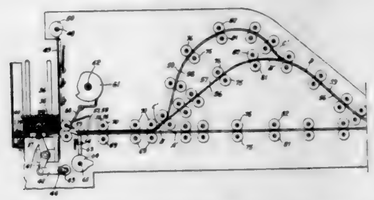
1. A food holding device comprising a base, an upright member, means removably securing said member to said base in a plurality of horizontally rotative positions; said means comprising a socket in said base, a plurality of vertical keyways in the socket-engaging end of said member and a key in said socket adapted to selectively engage said keyways; an arm provided with prongs, and means for vertically adjusting said arm along said member, said means comprising a sleeve member secured to said arm, a keyway in said upright, a key in said sleeve member engageable with said keyway, a plurality of indents in said upright, a ball selectively engageable with said indents, and detent means operable in said sleeve member and engageable with said ball.

2,533,309

CARD HANDLING MECHANISM

Robert T. Blakely, Amityville, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

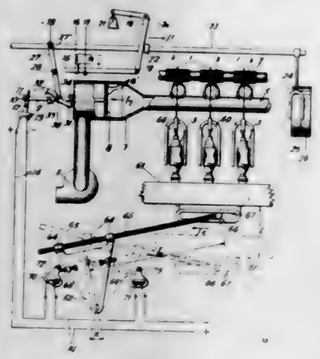
Application November 3, 1947, Serial No. 783,679
9 Claims. (Cl. 235—61.6)



4. Card handling mechanism for feeding cards from a supply stack past an analyzing station to a discharge stack comprising in combination, picker means for picking a plurality of cards from the supply stack and advancing them in succession, a plurality of chute blades for receiving the cards and guiding them in separate paths, means controlling shifting of the chute blades to cause the entrance of the cards into separate paths, card conveying means to advance the cards in said separate paths, said card conveying means including means to first feed

the cards at normal speed and means to thereafter feed the cards in their separate paths at increased speed, means including said chute blades to redirect the cards from the separate paths into a single common path which the cards enter in succession, one after the other, means for feeding the cards in said last-mentioned single path through the machine at said increased speed, said chute blades further defining paths of different lengths whereby the successive cards enter the single path in succession, and operating means for operating the picker means, the chute blade shifting means and the card conveying means.

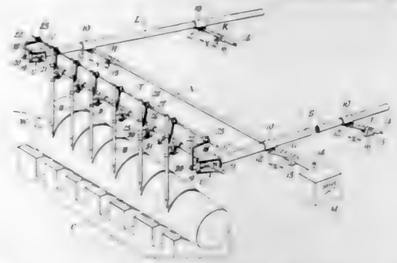
2,533,310
STOP MECHANISM FOR SPINNING FRAMES
Maurice Carrette, Lille, France, assignor to Luwa A.-G., Zurich, Switzerland
Application July 31, 1947, Serial No. 764,950
In France April 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 23, 1966
6 Claims. (Cl. 57—79)



1. In a spinning frame having a stop motion, the combination of electromagnetic means operative to initiate actuation of said stop motion, a bobbin carrying rail adapted to reciprocate substantially in the direction of the axis of the bobbin spindles, a suction conduit provided with a series of suction orifices, means for feeding a sliver in front of each suction orifice to said bobbins, means movable within the suction conduit in response to change in suction conditions therein, said electromagnetic means becoming operative upon displacement of said movable means due to a change in suction conditions in said conduit when a sliver breaks or a single is produced and broken sliver is drawn into the suction conduit, and means preventing said electromagnetic means from becoming operative when said bobbin rail is substantially at either end of its course.

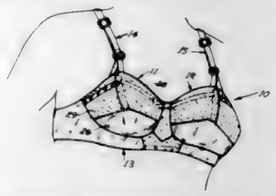
2,533,311
MACHINE FOR CUTTING TAPERED INGOTS
Rudolph Chelborg, Maplewood, and Lloyd W. Young, Elizabeth, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application February 18, 1947, Serial No. 729,284
7 Claims. (Cl. 266—23)

2. Apparatus for multiple oxy-fuel cutting of tapered stock, which comprises a support for spacing a plurality of cutting oxygen orifices in a line extending longitudinally of the stock, a common drive unit, mechanism actuated by said common drive unit for moving said line of orifices to generate a portion of a conical surface coaxial with the stock, and a device interconnected with



said mechanism for maintaining the cutting oxygen streams from said orifices in planes perpendicular to the axis of the stock during such movement.

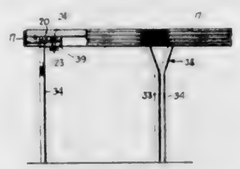
2,533,312
BUST SUPPORT
Rosaria Ciringione, Forest Hills, N. Y.
Application May 5, 1948, Serial No. 25,209
1 Claim. (Cl. 2—42)



A bust support comprising a pair of breast pockets, a band having two arcuate cutouts, a pair of shoulder straps each secured to a respective end of said band and extending toward a respective one of said breast pockets, each of said breast pockets comprising a lower segmental portion joined to said band along part of a respective cutout and further comprising a pair of roughly trapezoidal flaps arranged side by side, each of said flaps having a first edge joined to said segmental portion and a second, adjacent edge joined to said band along a remaining part of said respective cutout, the edges of said flaps respectively opposite said second edges overlapping each other in a loose manner along a line substantially forming a continuation of the respective shoulder strap, said shoulder strap being provided with two extremities each engaging a respective one of said flaps, an elastic strap secured to the outer one of said flaps and stretched from a point adjacent the free corner of said outer flap across part of the inner one of said flaps toward the center of said band, and an elastic strap secured to the inner one of said flaps and stretched from a point adjacent the free corner of said inner flap across part of the outer one of said flaps toward the end of said band, said elastic straps being secured to said band adjacent said respective cutout.

2,533,313
TABLE LEG ATTACHING MEANS
Jakob Flicker, Brooklyn, N. Y.
Application June 2, 1948, Serial No. 30,709
2 Claims. (Cl. 311—110)

2. A table leg attaching means for a table having a table top, corner blocks attached to the underneath side of said table top adjacent the edges thereof, corner leg supporting blocks attached adjacent each said corner block along a medial line through said corner blocks and said supporting blocks, said supporting blocks having two parallel sides, a recess and a central hole communicating with said recess in said supporting blocks, a bolt seated within said recess and passing through said hole, legs for said table, said legs comprised of two pieces of tubing welded



together, the upper portion of said legs bent in a Y formation, parallel horizontal seating portions at the top of said legs upon which said table top rests, said seating leg portions resting against said parallel sides of said supporting blocks, a covering block having a central hole and wider than the distance between said seating leg portions, a washer and wing nut for said bolt for holding said covering block against said seating leg portions.

2,533,314
POLYVINYL PARTIAL ACETAL COMPOSITION AND METHOD OF MAKING THE SAME
Frazier Groff, Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application February 27, 1947, Serial No. 731,416
4 Claims. (Cl. 260—23)

1. A resinous composition of matter comprising a polyvinyl partial acetal resin of the group consisting of polyvinyl alcohol acetalized between 54% and 78% with butyraldehyde, of polyvinyl alcohol acetalized between 62% and 88% with propionaldehyde and polyvinyl alcohol acetalized between 39% and 58% with valeraldehyde, said resin having been heated to a temperature between 200° C. and 300° C. in admixture with a fatty drying oil and a water-insoluble monocarboxylic acid having between 10 and 20 carbon atoms to the molecule selected from the group consisting of rosin and the fatty acids until a reaction product is obtained characterized by solubility in fatty drying oils, the proportion of acid to acetal resin being substantially that required to esterify the free hydroxyl groups of the acetal resin.

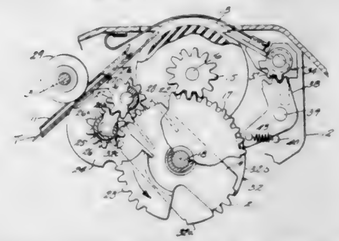
2,533,315
TREATMENT OF URANIUM CHLORIDES
Aristid V. Grosse, New York, N. Y.
No Drawing. Application January 2, 1941, Serial No. 372,897
6 Claims. (Cl. 23—14.5)

1. A process for separating uranium pentachloride from a mixture containing uranium pentachloride, uranium tetrachloride, and uranium oxychlorides which comprises subjecting said mixture to contact with liquid chlorine to form a solution containing uranium pentachloride, removing said solution from undissolved material, and separating from said solution substantially pure uranium pentachloride.

2,533,316
HANDLING OF URANIUM HEXAFLUORIDE IN VESSELS OF GLASS AND SILICA
Aristid V. Grosse, New York, N. Y.
No Drawing. Application February 1, 1941, Serial No. 377,051
9 Claims. (Cl. 23—14.5)

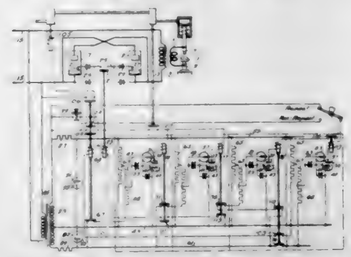
1. A process for substantially preventing decomposition of uranium hexafluoride in contact with a material containing chemically combined silicon which comprises adding to said uranium hexafluoride an alkali metal fluoride.

2,533,317
TAPE CONTROL DEVICE
Walter J. Hanson, Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application July 13, 1946, Serial No. 683,502
3 Claims. (Cl. 101—227)



1. In a tape treating device, tape advancing and retracting means comprising a driven roller and an idler roller having peripheral engagement with tape position therebetween, drive means associated with the driven roller including a segmental drive gear, a pinion carried by the driven roller and adapted to be driven by said segmental gear to advance the tape, means to sever the advanced portion of the tape, an idler pinion meshing with the first named pinion, and another segmental drive gear aligned with the idler pinion and rotatable with the first named segment to effect the drive of said idler pinion and thereby effect the drive of the driven roller in a reverse direction for the return of the leading end of the tape to its home position.

2,533,318
TIMER
Edward C. Hartwig, Tonawanda, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 24, 1948, Serial No. 16,860
22 Claims. (Cl. 315—246)



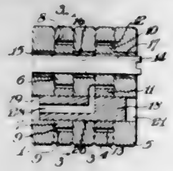
1. For use with an alternating current supply the combination comprising a pair of conductors between which a predetermined alternating po-

tential is to be impressed, a third conductor between which and each of said pair of conductors an alternating potential is to be impressed, a first asymmetrically conductive voltage regulator connected between said third conductor and one of said pairs of conductors to conduct current of one polarity, and a second asymmetrically conductive voltage regulator connected between said third conductor, and the other of said pair of conductors to conduct current of the opposite polarity.

2,533,319
REGISTERING AND METERING SYSTEM
Charles S. Hazard, Andover, N. J., assignor to Neptune Meter Company, a corporation of New Jersey
Application March 26, 1945, Serial No. 584,969
12 Claims. (Cl. 222—20)

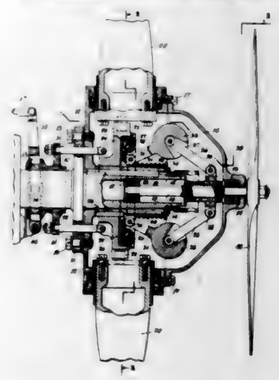
2. In a dispensing apparatus, the combination with a measuring device, and a register settable from an initial position to a position corresponding to the amount of material to be measured and operable to return to said initial position, of a shaft connected to said register to drive said register upon rotation of said shaft, a rotatable stop element connected to said shaft to rotate therewith, a motor operatively connected to said rotatable stop element for effecting rotation thereof, trip means engaged by said rotatable stop element at a given point in the rotation thereof to stop rotation of said shaft, and means actuated by said meter for intermittently actuating said trip means to release and again to engage said rotatable stop element to effect rotation of said shaft and of said register in step by step manner.

2,533,320
ROTARY GEAR-TYPE METERING PUMP
Donald Robert Hull, Newport, and Daniel Parker Phillips, Wilmington, Del., and Nelson Hall Tate, Chadd's Ford, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 4, 1949, Serial No. 69,082
1 Claim. (Cl. 103—4)



A precision rotary gear-type metering pump adapted to forward molten polymers and like viscous liquids comprising two spaced and aligned sets of liquid-forwarding gears, each set comprising a drive liquid-forwarding gear and a driven liquid-forwarding gear meshed therewith, the drive gears being fixed to a common rotatable drive shaft for rotation therewith and the driven gears being mounted for free rotation on a common fixed shaft parallel to the drive shaft, a housing for said gears comprising a face plate disposed to serve as a front sidewall of the housing for the first of said sets of gears, a second plate cut out and disposed to serve as the peripheral wall of the housing for said first set of gears, a third plate disposed to serve as a rear side wall for the said first set of gears and as a front side wall of the housing for the other set of gears, a fourth plate cut out and disposed to serve as the peripheral wall of the housing for said other set of gears, and a back plate disposed to serve as the rear side wall of the housing for said other set of gears, the face plate, the third plate and the back plate having aligned openings into which are fitted the drive shaft and the fixed shaft, aligned openings in the face plate and in the third plate positioned to afford a passageway for liquid to the gears, an opening in the face plate positioned to afford a passageway for liquid forwarded by said first set of gears and liquid outlet means for said other set of gears comprising a groove in said third plate positioned to afford a passageway for liquid forwarded by said other set of gears from said gears to the fixed shaft and a connecting passgeway in said fixed shaft extending to and through the front end of said fixed shaft and through said face plate.

2,533,321
VARIABLE PITCH PROPELLER
Bertell W. King, Brooklyn, N. Y.
Application September 12, 1944, Serial No. 553,682
8 Claims. (Cl. 170—160.15)



1. A variable pitch propeller for an airplane comprising a housing, blades carried by the housing and mounted for adjustment of the angular position of the blades, centrifugal means having at least one weight mounted for rotation and for movement radially with changes in its speed of rotation, an auxiliary propeller mounted to be driven by the airstream created by the forward motion of the plane and connected with the centrifugal means to rotate the same, and mechanical means connecting the centrifugal means with the propeller blades to adjust the angular position thereof.

2,533,322
BEACH UMBRELLA
Saul Kober, New York, N. Y.
Application April 6, 1946, Serial No. 660,198
1 Claim. (Cl. 135—16)

A beach umbrella which includes a pole having a table piece fixed intermediate its ends, a center ground piece slidable along the pole and adapted to be disposed on the ground where the pole enters the ground, and adjustable means dependent from the table piece to engage and support the

center ground piece when the latter is slid up the pole to a position beneath the table piece.

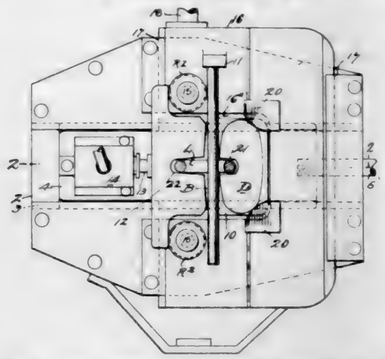
2,533,323
PREPARATION OF ESTERS
John Lomartire, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application June 21, 1947, Serial No. 756,333
8 Claims. (Cl. 260—475)

1. Process for the production of diesters of 1,4-butanediol, which comprises refluxing a mixture of tetrahydrofuran, pyridine, an organic acid anhydride and sulfuric acid until the tetrahydrofuran ring is opened and a diester of 1,4-butanediol is formed, and fractionating the reaction mixture to separate the diester therefrom.

2,533,324
GARMENT RACK
Alvin M. Mendle, St. Louis, Mo., assignor, by mesne assignments, to Reconstruction Finance Corporation, St. Louis, Mo., a corporation of the United States
Application October 8, 1945, Serial No. 621,113
1 Claim. (Cl. 211—177)

A rack comprising a base member including a central bar, a pair of T-shaped stamped fittings each having a downwardly opening U-shaped lateral arm and downwardly opening U-shaped side arms extending in co-axial alignment on opposite sides of and at right angles to the lateral arm, said fittings each also having an upwardly presented, internally tapered socket-forming sleeve rising from the region of juncture between the lateral arm and side arms said sleeve being internally enlarged and spread at its bottom, the lateral arms of said fittings being disposed around and rigidly secured to the opposite ends respectively of the central bar, a foot bar rigidly secured in and extending through the side arms of each fitting, a cross bar provided at its opposite ends with fittings having downwardly presented tapered recesses adapted for alignment, each with one of said sleeves, and a pair of uprights having tapered upper ends for removable disposition within said recesses and having tapered lower ends for removable disposition within said sleeves for holding the cross bar in upwardly spaced parallel relation to the base member, said tapered lower ends being substantially shorter than the sleeves so that the lower ends of the uprights will be supported upwardly out of contact with the foot bars.

2,533,325
METHOD AND MEANS FOR MAKING CHAINS
Ivan O. Miller, Fullerton, Wayne N. Sutliff, Whittier, and Donald U. Shaffer and Kenneth E. Waggener, Brea, Calif., assignors to Shaffer Tool Works, Brea, Calif.
Application November 10, 1944, Serial No. 562,830
25 Claims. (Cl. 59—27)

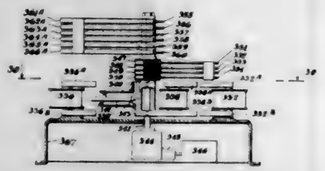


1. A chain making machine, having, in combination, a slide having a gripping member and an opposite core die normally spaced from said member to provide for interlodging a link bar, means on the slide yieldingly pressing said member to normal gripping position, a motor for driving said slide to close the die against an interposed bar and bodily shift the bar laterally against and with the gripping member, spaced abutments to intercept the ends of the bar as it is so bodily shifted and to bend the ends unidirectionally on the die, and a carriage for supporting and for alternately oppositely driving the abutments against the respective bar ends to form the link and to retract the abutments to normal position; said motor operative on the slide to retract the die to normal position with the formed link.

2,533,326
MAGNETIC STORAGE COMPARING AND CONTROL SYSTEM
Donald R. Putt, Jersey City, N. J.
Original application July 1, 1940, Serial No. 343,400, now Patent No. 2,474,861, dated July 5, 1949. Divided and this application July 2, 1949, Serial No. 102,894
3 Claims. (Cl. 177—353)

3. A control system comprising means for initiating electrical signals indicative of the

action to be performed; means for converting said electrical signal to magnetism and for storing said signals in the form of residual magnetism; means for generating a first code from the magnetic storage in which at least one signal is spaced in a given time interval; means for



generating a second code indicative of the ability of the action to be performed and comprising at least one signal spaced in a given time interval; means for comparing said first and second codes; and means for achieving the control to effect the desired action when the two codes coincide.

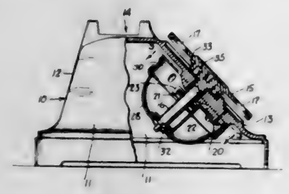
2,533,327

TOY TELEPHONE

Frank A. Richards, East Elmhurst, and Charles R. Arliss, Astoria, N. Y., assignors to Ideal Novelty & Toy Co., Hollis, N. Y., a corporation of New York

Application August 5, 1948, Serial No. 42,634

1 Claim. (Cl. 46—33)



A toy telephone comprising a molded plastic housing, said housing having an internal boss having a through-and-through aperture, a shaft extending turnably through said aperture transversely to said housing, a rotary dial mounted on said shaft outside said housing, a metal mounting frame positioned interiorly of said housing, said frame comprising a base member which is attached to said housing, a transverse plate which is integral with said base member, a support plate which is integral with said transverse plate and transverse to said shaft, said support plate having an aperture which is axially alined with said housing aperture and through which said shaft extends turnably, a dome-shaped bell carried by said shaft and turnable therewith, the top of said bell being supported by said support plate, said frame having opposed side walls which are integral with said transverse plate, lugs respectively integral with said side walls and positioned on opposite sides of and adjacent to said boss, a striker adapted to reciprocate transversely to said shaft, said side walls having respective slots therein through which said striker extends, said striker having an elongated central slot allowing passage of said shaft therethrough, said bell having a plurality of inwardly extending projections adapted to contact alternately opposite ends of said striker, said striker having a length slightly smaller than the internal diameter of said bell and extending substantially diametrically thereacross, whereby a continuous bell-ringing sound is produced during rotation of said dial.

2,533,328

LUBRICANT COOLANT SOLUTION

Thomas T. Rodgers, Milwaukee, Wis.; Thomas T. Rodgers, Jr., executor of said Thomas T. Rodgers, deceased, assignor to Janet W. Rodgers, Milwaukee, Wis.

No Drawing. Application August 27, 1945, Serial No. 613,019

2 Claims. (Cl. 252—49.3)

1. A lubricant coolant solution consisting of from $^2/_{10}\%$ to 50% by weight of a substance defined by the formula

$$RX_{(n-m)}m(NHR'NH_2HX)$$

wherein R represents carbon hydrogen structure of paraffin, X represents halogen, n a number of halogen atoms greater than one, m represents a number less than n, and R' an alkylene polyamine having at least two primary amine groups, said substance being contained in solution in water.

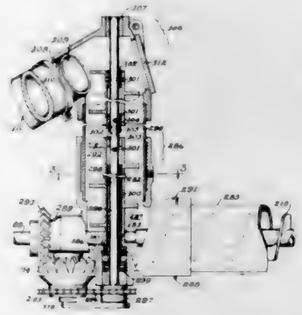
2,533,329

ASH DISPOSAL SCREW

William M. Schweickart, Bay Village, and Fred G. Julyan, Euclid, Ohio, assignors, by mesne assignments, to Iron Fireman Manufacturing Company, Portland, Oreg., a corporation of Oregon

Application October 2, 1944, Serial No. 556,686

2 Claims. (Cl. 198—213)



1. In a stoker the combination with a motor drive, of a first worm feed comprising a conveyor tube containing a first worm driven from said motor drive and adapted to receive a supply of material at one end and deliver it at its other end, a second worm feed extending at an angle to said first worm feed and comprising a conveyor tube and a hollow worm therein having a material receiving end adjacent said delivery end of said first feed worm, a housing adjustable to various settings around the axis of said first conveyor tube and connected thereto, means on said housing supporting said second conveyor tube, a drive shaft in said hollow worm connected thereto and having a supporting bearing in said housing adjacent said receiving end of said second worm, and means for driving said drive shaft from said main worm comprising rotary means carried by said housing and connected to said drive shaft adjacent said supporting bearing in all adjusted positions of said housing.

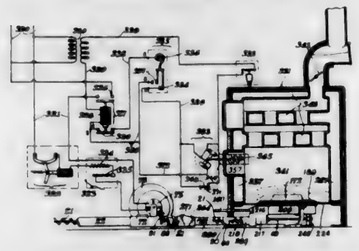
2,533,330

STOKER SYSTEM, INCLUDING FUEL AND AIR FEED CONTROLS

William M. Schweickart, Mentor, and Fred G. Julyan, Euclid, Ohio, assignors, by mesne assignments, to Iron Fireman Manufacturing Company, Portland, Oreg., a corporation of Oregon

Application August 8, 1941, Serial No. 405,894, now Patent No. 2,405,982, dated August 20, 1946, which is a division of application Serial No. 161,494, August 28, 1937, now Patent No. 2,306,189, dated December 22, 1942. Divided and this application August 15, 1946, Serial No. 690,695

2 Claims. (Cl. 110—101)



1. In a stoker combustion system including a flue for combustion gases and a retort expanding and opening upward and having a surrounding rotary grate ring structure adapted to underlie a layer of burning fuel from said retort, means forming a combustion chamber above said retort and grate ring adapted to be subjected to subatmospheric pressure by virtue of the flue draft, a coal supplying means for said retort and air supplying means comprising inwardly directed tuyères in the upper portion of the retort and passages connected thereto, air seal means around said retort including stationary parts cooperating with said rotary grate ring structure to retain ashes in sealing ring formation acting to restrict the air flow to that which passes through said tuyères to the combustion chamber, control means for said air supply automatically regulating the air seepage through said tuyères under the action of said flue draft, means for raising the pressure of said air supply through said tuyères comprising a blower in said air passages and means for regulating the air flow therefrom, and room and combustion chamber thermostats actuating said coal and air pressure supplying means to increase or decrease the coal and air supplies at predetermined respective minimum and maximum temperature settings.

2,533,331

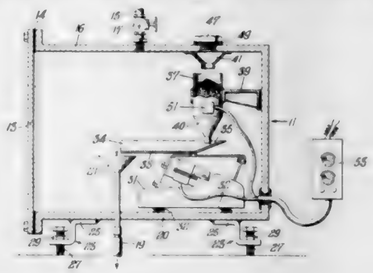
POWDER DISPENSING

George M. Skinner, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application March 1, 1945, Serial No. 580,352

18 Claims. (Cl. 302—36)

1. A powder dispenser comprising a gas tight housing, a powder guiding conduit in said housing having an outlet; powder feeding means in said housing arranged to feed powder to said powder guiding conduit at a point remote from said outlet; means for vibrating said powder guiding conduit to cause the flow of powder to said outlet; a powder delivery conduit extending from the inside to the outside of said housing and having an entrance so positioned as to receive the powder leaving said outlet; and means for introducing a flowing stream of gas under pressure into said housing and thence into said



delivery conduit for carrying such powder through said delivery conduit.

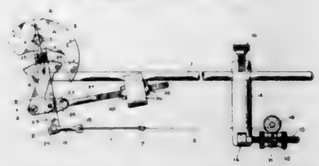
2,533,332

FILAMENT TESTER

John B. Steiding, Midland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

Application April 11, 1945, Serial No. 587,661

3 Claims. (Cl. 73—95)



1. In a device for determining the linear response of a tensioned filamentary material when subjected to physical and chemical treatments, a supporting member, a bracket mounted on said supporting member and adjustable therealong, means on said bracket for holding one end of a specimen of filamentary material, a pair of parallel cooperating brackets mounted on said supporting member, a counterweighted lever arm pivotally supported at one end and mounted between said latter brackets, means for anchoring the other end of the speciman to said lever arm, a rack on said lever arm, a pinion cooperating with said rack and indicating means operatively connected to said pinion, the construction and arrangement being such that the lever arm is responsive to the linear changes of the specimen when under treatment and the indicating means giving a visible indication of said changes.

2,533,333

COLLAPSIBLE AND PORTABLE WARDROBE HAVING FLEXIBLE WALLS AND SHELVES

Alfred P. Kitson, United States Army, Aptos, Calif.

Application February 19, 1947, Serial No. 729,643

3 Claims. (Cl. 190—43)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. In a portable wardrobe, the combination of a luggage compartment comprising a pair of flexible walls and a pair of flexible sides extending beyond said walls, with a plurality of flexible shelves on the outside of said compartment and joined to said sides and to one of said walls, supporting means for said shelves comprising pairs of rigid stays insertable adjacent the side edges of

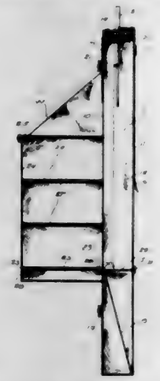
said shelves, rigid transverse shelf-supporting

face formed to be adapted to be attached to a

extending inwardly and upwardly in the provision

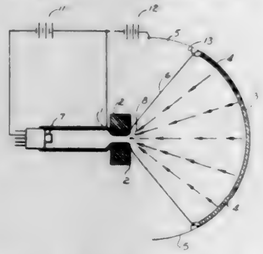
ing a source of current, a circuit connected to

said shelves, rigid transverse shelf-supporting means parallel to one of said walls, at least one pair of said stays extending through said last-



named wall and along the sides of said compartment, and a rigid transverse brace on one of said flexible walls, said brace being apertured for the reception of a pair of said first-named rigid stays.

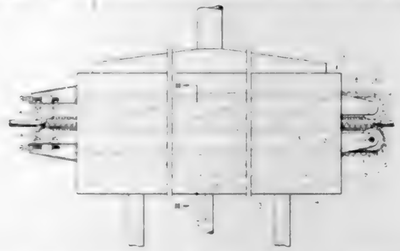
2,533,334
CATHODE-RAY TUBE
David E. Sunstein, Cynwyd, and Arthur H. Mankin, Philadelphia, Pa., assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 18, 1945, Serial No. 623,114
5 Claims. (Cl. 250—155)



1. A cathode ray tube comprising an envelope, an electron gun, deflecting means, an accelerating anode, a fluorescent screen, a dome-shaped electrode bordering said screen having its center of curvature substantially at the region of deflection of said deflecting means, and a shield mounted outside said tube and forming an effective continuation of said screen.

2,533,335
VULCANIZING MOLD HAVING INTERLOCKING SEGMENTS
Archibald L. Wallace, Mountain Lakes, N. J.
Application September 21, 1946, Serial No. 698,590
10 Claims. (Cl. 18—6)

10. A mold section having two parallel sides whereby it is adapted to abut two other identical mold sections placed one on one side thereof and one on the other, also having two parallel end faces positioned at a right angle to the side faces, also formed with a semi-circular cut-out portion, the axis of which intersects the plane of the side faces perpendicular to the side faces, also a back face formed to be adapted to be attached to a belt, the material remaining of the face opposite the back face after taking out the cut-out portion, being formed into two teeth, one adjacent one end face and the other adjacent the other end face, each tooth being elongated in the line from side to side and connected to the body of the mold section by a neck narrower than the length of the



tooth, the tooth being shorter than the distance from side to side of the mold section and the two portions of the mold section on each side of the neck being cut away whereby one mold section may be positioned with its back face in contact with the back faces on two adjacent reversely positioned mold sections each provided with an identical tooth whereby the mold sections are interlocked.

2,533,336
PROCESS OF MAKING SLIP-LASTED SHOES
John J. Walsh, St. Louis, Mo., assignor to Hamilton, Scheu & Walsh Shoe Co., St. Louis, Mo., a corporation of Missouri
Application March 24, 1947, Serial No. 736,803
1 Claim. (Cl. 12—142)

That process of shoe production which includes providing an insole member having approximately the contour of the finished shoe, coating said insole member around its entire peripheral margin with a band of adhesive, suitably binding the entire margin of said insole member, coating the under face of the insole member with adhesive in a short defined area along peripheral portions in the region corresponding to the ball of the foot, providing an upper also having the approximate dimensions and shape corresponding to those of the finished shoe, folding the upper marginally over and upon the under face of the insole member, initially securing said upper to the insole in said area adjacent the ball of the foot by means of the adhesive, placing the partially completed shoe upon a last, and completing same by pulling over and tacking down the unsecured margins of the upper upon the corresponding marginal portions of the insole and applying a sole member.

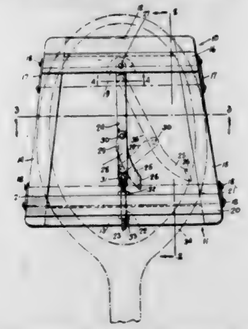
2,533,337
SHOE AND THE METHOD OF MAKING THE SAME
John J. Walsh, St. Louis, Mo.
Application June 18, 1947, Serial No. 755,526
9 Claims. (Cl. 36—16)

1. A shoe comprising an upper having its peripheral margin in the region of its toe-part

extending inwardly and upwardly in the provision of a notch-like line of separation, a soft outer sole stitched to the peripheral margins of the upper, said sole having a toe-flap shaped to conform to the notch-like line of separation of the upper and a heel-flap extending peripherally outwardly around the heel portion of the sole member, said

toe-flap being stitched to the upper along the margins of the notch-like line of separation, and a flexible inner sole member disposed within the upper and secured upon the inner face of the sole, said heel-flap being folded over and secured upon the upper face of the inner sole member around the heel periphery thereof.

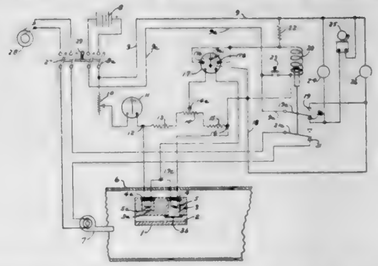
2,533,338
TENNIS RACKET PRESS
Jack H. Weingarten, New York, N. Y.
Application March 26, 1946, Serial No. 657,258
4 Claims. (Cl. 273—74)



1. In combination in a racquet press having a base member and upper and lower clamping members, linkage connections between said upper and lower clamping members at the central portions thereof, said linkage connections comprising an upper central vertical member bent at its lower end to form a finger piece, said upper central member pivotally attached to the center of said upper clamping member, said upper vertical central member pivotally attached to one end of a lower central member, stop means upon said lower central member for stopping said upper central vertical member, the opposite end of said lower central member pivotally attached to an adjustable tension bolt, said tension bolt attached to the central part of said lower clamping member, opposed plates pivotally attached to said base member and said upper and lower clamping members, said linkage connections acting as a lever manually operable to open and close said press.

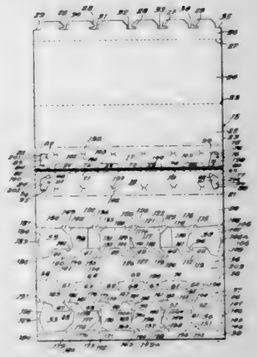
2,533,339
FLAMMABLE VAPOR PROTECTION
Walter J. Willenborg, Weehawken, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y., a corporation of New York
Application June 22, 1946, Serial No. 678,556
3 Claims. (Cl. 177—311)

3. Protective apparatus applicable to the presence of flammable vapors and gases comprising a source of current, a circuit connected to said source containing a catalytic element, said element being located in the region to be tested for the presence of such flammable vapors and gases and exposed thereto, a contact galvanometer electrically connected to said element and responsive to engage its contacts upon an increase in the resistance of said element and to its heating below its glowing temperature when said flammable vapors and gases increase to a predetermined amount and approach a dangerous condition, an electromagnet, contacts controlled by said electromagnet in the circuit of said element and closed when said electromagnet is energized,



connections between said galvanometer and the winding of said electromagnet for deenergizing said winding upon the contacts of said galvanometer making engagement and thereby opening the circuit of said catalytic element, said galvanometer and electromagnet being located outside said region and at a distance therefrom, a signal for indicating danger upon the supply of current thereto, contacts engaged by the deenergization of said electromagnet, and circuit connections between said last named contacts and said signal for supplying current to said signal upon engagement of said last named contacts, said signal also being located outside said region and at a distance therefrom.

2,533,340
EGG CARTON
William H. Allen, Teaneck, and Maynard G. Hall, Rutherford, N. J., assignors to Empire Box Corporation, Garfield, N. J., a corporation of Delaware
Application January 24, 1947, Serial No. 724,168
12 Claims. (Cl. 229—28)



1. An egg carton formed from a single egg carton blank embodying a pair of integrally

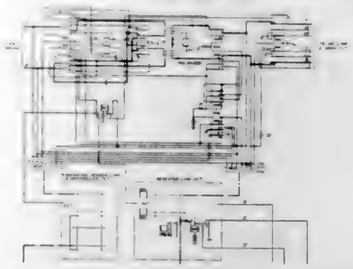
joined and contiguous central longitudinal partition-forming sections, said blank being cut, scored, and glued and folded to form a flat collapsed but erectable carton which in its erected condition includes a front side wall, a rear side wall, end flaps, transverse partitions or egg cell dividers, a bottom wall including a pair of integrally connected bottom wall sections arranged between said front wall and said rear wall and said bottom wall sections being inclined upwardly from their outer edges toward and along the longitudinal center of the said bottom wall of the carton and providing a raised, inclined cushioned bottom for the carton, a cover, a glue strip adhesively attached to one of said side walls at the inner side thereof, a central longitudinal partition disposed between said front wall and the said rear wall, primary bottom wall-supporting elements attached to and extending downwardly from the said central longitudinal partition in the same vertical plane therewith and cooperating with the said central longitudinal partition and with the said inclined bottom wall for retaining the inner end and longitudinal center portion of said inclined bottom wall in raised and upwardly inclined cushion-forming position, and the said egg carton including auxiliary supporting bottom wall-supporting elements each having an end portion integrally and hingedly connected to one of the said central longitudinal partition-forming sections and secured to one of the said bottom wall sections for retaining the inner end and longitudinal center portion of the said inclined bottom wall in raised and inclined cushion-forming position.

2,533,341
REEL FOR ELECTRICAL CABLES
Gustave Alfano, Long Island City, N. Y.
Application December 5, 1946, Serial No. 714,257
1 Claim. (Cl. 242—96)

A reel for an electrical cable of a predetermined diameter comprising a longitudinal flat shaped body, a slot adjacent each end of the body, the slots being disposed parallel from opposite longitudinal edges of the body in an angle of about 45° in a direction towards the ends of the body and of a width slightly narrower than the predetermined diameter of the cable to terminate at about the longitudinal axis of the body in a substantially circular opening equivalent to the predetermined diameter of the cable and receiving and retaining portions of the cable in the circular openings of said body, the portion of the body between the two slots receiving windings of the portion of the cable lying between the two retained portions.

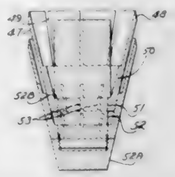
2,533,342
TANDEM SWITCHING SYSTEM
Robert Campbell Avery, Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application October 9, 1947, Serial No. 778,977
4 Claims. (Cl. 179—18)

1. In a telephone system, an office, trunks incoming to said office, subscribers' lines and interoffice trunks outgoing from said office, register senders in said office, connecting means, means in one of said trunks to operate said connecting means to select one of said senders and to connect said selected sender with said one trunk, a plurality of registers in said sender, means operative over said one trunk to successively operate all of said registers to register the designation of a wanted line thereon, a plurality of switch controlling markers, means normally dependent on the operation of all of said registers for connecting a switch controlling marker with said sender, means to render said marker connecting means responsive to the operation of a predetermined lesser number of said registers, a register check-



ing circuit in said marker normally completed under the control of all of said registers, means normally under the control of said checking circuit to cause said marker to control the extension of said incoming trunk to said wanted line, means to complete an alternative register checking circuit under the control of said predetermined lesser number of said registers and means under the control of said alternative register checking circuit to cause said marker to control the extension of said incoming trunk to one of said outgoing trunks.

2,533,343
ELECTRIC CONNECTING DEVICE
Fernand Georges Bac, Paris, France
Application January 24, 1947, Serial No. 724,094
In France November 3, 1944
12 Claims. (Cl. 173—363)

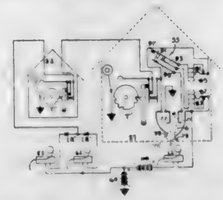


1. In an electric coupling having a plug and socket, a contactor for connecting said plug and socket comprising a plurality of rings, each of said rings having a frusto-conical portion, said rings being nested one within the other with a frusto-conical portion of one ring making direct contact with the next ring, surfaces of the rings remote from the aforementioned direct contacting portion providing a series of peripheral contacts between a plug and socket, and means connecting said rings together in squeezing relationship to each other.

2,533,344
VARIABLE SIGNAL TRANSMITTING STATION
Clarence E. Beach, Binghamton, N. Y.
Application April 19, 1947, Serial No. 742,722
10 Claims. (Cl. 177—378)

1. A signal station including a signal box, a manually operable variable signal impulse sender

means including a dial in said box for selectively effecting formulations of diverse groups of code signaling impulses, a cover carried by said box positionable for obstructing manual operation of the dial of said sender means, conductors providing three circuits, said sender means including signal formulating contacts responsive to actuation of said dial having connections with said circuits and adapted to govern interconnection therebetween, a switching means connected into said contacts and said circuits, and means actuated by movement of the cover to

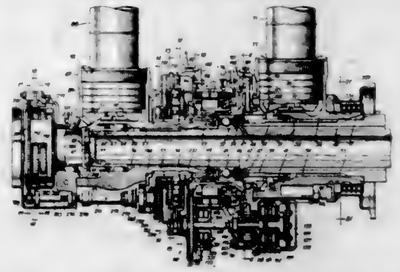


different positions for in turn actuating the switching means to different positions, the connections between the circuits and the switching means being effective when the cover is in an obstructive position with respect to the dial of the signal sender means for assuring interconnection between two of said circuits while isolating the third circuit therefrom, said switching means including means effective when the cover is in an unobstructive position with respect to said dial for rendering interconnections between all three circuits dependent upon the closing of said formulating contacts.

2,533,345
TOOTHBRUSH HAVING POWDER PICKUP GROOVES
John E. Bennett, Elgin, Ill., assignor to Claude L. Bennett, Elgin, Ill.
Application November 29, 1945, Serial No. 631,560
1 Claim. (Cl. 15—167)

In a tooth brush for carrying and applying tooth powder to the teeth, said tooth brush having an elongated handle, and a head of generally similar transverse cross section throughout its length, said transverse cross section comprising an upper slightly convex curved portion and a lower straight portion, a plurality of rows of bristles extending from the lower side of the brush head, said head being of arcuate shape in longitudinal cross section, said longitudinal cross section comprising an upper convex portion and a lower concave portion, which portions of the longitudinal cross section are spaced concentrically throughout their entire length, said head having a concave arcuate groove in each side wall thereof, said grooves extending substantially throughout the entire length of the head, the upper and lower edges of the grooves being concentric with the said longitudinally convex upper and concave lower portions, the upper edge of each groove forming a lip adjacent the convex top surface of said head, so that the tooth brush may be turned with the bristles directed generally upwardly and a quantity of powder may be scraped from the user's palm into one of said grooves and the powder carried to and applied to the teeth.

2,533,346
DUAL ROTATION PROPELLER
George W. Brady, Upper Montclair, and Charles W. Chillson, Caldwell, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application January 19, 1944, Serial No. 519,066
13 Claims. (Cl. 170—135.24)



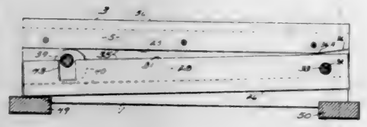
1. In a dual rotation propeller having two coaxial tandem contrarotating propeller hubs with a plurality of propeller blades in each hub having their roots rotatable in bearings in the hubs to change the blade pitch, gear means for imparting rotation to the roots of the blades of one of the hubs to rotate said blades about the blade axes, and a power transmitting gear train having the driving gear connected to the blade roots of one hub and the driven gear connected to the blade roots of the other hub, said power transmitting gear train being adapted to rotate the blade roots at the driven end of said gear train through a different pitch angle than the blade roots at the driving end of said gear train.

2,533,347
TRIPLE SLIDE HOLDER DEVICE FOR STEREOSCOPIC SLIDES
Frederick William Brock, Tompkinsville, N. Y., assignor to Keystone View Company, Meadville, Pa., a corporation of Pennsylvania
Application January 11, 1949, Serial No. 70,190
1 Claim. (Cl. 88—20)

A device for presenting and operating a slide assembly of superposed stereoscopically related slides consisting of two movable transparent slides and a third rear immovable slide, said device comprising a back member having a view opening framed therein, means integral with said back member for supporting said third slide immovable thereupon across said view opening, a pair of movable superposed slide holders, means for slidably supporting said holders upon said

back member in front thereof and below said view opening, a projection on said back member above the view opening in vertical alinement with said slide holders for supporting a transparent stereoscopic slide in each of said holders in front of said immovable slide, said transparent slides being stereoscopic complements one of the other, said immovable slide bearing an object pictorially related to said stereoscopic complement, a pair of legs formed in each of said slide holders, cams engaging said legs to move the slide holders with the slides therein an equal distance in opposite directions across said view opening and in front of the immovable slide and an operating knob for actuating the said cams.

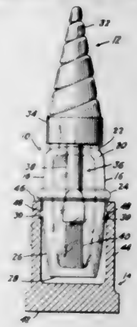
2,533,348
PERMANENT MAGNET CHUCK
Edwin H. Brandenburg, Lakewood, Ohio
Application March 29, 1948, Serial No. 17,767
8 Claims. (Cl. 175—367)



1. In a magnetic chuck, a rigid frame comprising a pair of elongated parallel spaced apart steel frame elements; a pair of elongated parallel spaced-apart non-magnetic bars secured by screws to the inner adjacent sides of the frame elements; and a downwardly open steel channel structure clamped between the inner adjacent sides of the bars by bolts projected through the bars and channel flanges; a work supporting planar surface provided jointly on upper surface of the steel channel structure, the bars, and the frame elements; the channel web of the channel structure provided with a longitudinally extending magnetic flux gap therethrough and open at said surface; an elongated permanent magnet of upwardly open channel form, the channel flanges of which constitute opposite-polarity magnet poles, disposed between the non-magnetic bars, and hinged at one end portion to the frame by a hinge pintle on the frame extending through the magnetic channel flanges; the magnet being hingingly movable in one direction to dispose its longitudinal flange edges in magnetic contact with the longitudinal flange edges of the steel channel structure; and in the other direction to break said magnetic contact and introduce a tapering air gap of less width at the hinged end of the magnet than at the other end; and manually operable force multiplying means reacting on the frame and on the magnet to move the magnet to break said magnetic contact.

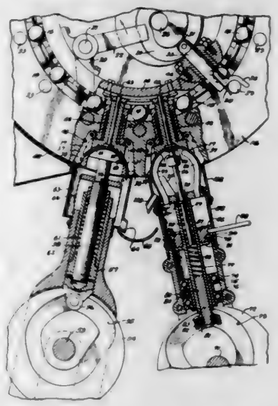
2,533,349
BOTTLE AND HOLDER THEREFOR
Charles H. Burger, New York, N. Y., assignor to Dermetics, Inc., New York, N. Y.
Application April 5, 1946, Serial No. 659,955
5 Claims. (Cl. 215—12)

1. The combination of a bottle having rest means and detent means intermediate the top and bottom of the bottle, and an integral supporting holder for the bottle and having a supporting base and side walls with an open top, the holder being arranged to receive a portion of the bottle that is below said rest means and surround it on all sides below such rest means and



including a seat for said rest means and a latch means for said detent.

2,533,350
JUICE EXTRACTION APPARATUS AND METHOD
Gerald Cahill, Vero Beach, Fla.
Application July 24, 1946, Serial No. 686,006
10 Claims. (Cl. 146—236)



9. In a process for extracting juice from a citrus fruit half, the steps of first forming a depression centrally within the fruit half less than the width of the fruit and leaving juice cells adjacent the rind of the fruit uncrushed, entering the depression without contacting said uncrushed juice cells and then rubbing the juice cells along a circular path to remove the juice from said remaining cells.

2,533,351
FORMATION OF GLASS FILM ON SILICON STEEL BY STRIP ANNEALING
Victor W. Carpenter, Franklin, Ohio, assignor to Armco Steel Corporation, a corporation of Ohio
No Drawing. Application November 22, 1946, Serial No. 711,806
4 Claims. (Cl. 148—6.35)

4. A process of producing an insulative glass film on thin cold rolled silicon steel strip, which comprises coating said strip with a thin coating of a substance chosen from the group consisting of the oxides and hydroxides of the alkaline earth

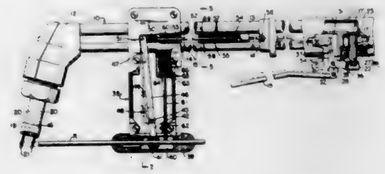
metals, and passing said strip through a hot zone at such a speed that it reaches a temperature substantially between 1900° and 2200° F. in a wet decarburizing atmosphere containing free hydrogen, said atmosphere being reducing to iron and oxidizing to silicon, whereby to oxidize silicon therein to silica at and near the strip surfaces, and to dehydrate the said coating and cause the alkaline earth metal oxide to combine with said silica, the time of passage of said strip through said hot zone being such as to produce an oxidative effect on silicon therein substantially equivalent to that produced by the passage of silicon steel strip .002 in. thick through such hot zone for a time at least about 20 seconds, in which hot zone the temperature reaches 2100° F.

2,533,352
CASE CARRYING HAND TRUCK
Harvey A. Chapman and Efner J. Livingston, Minneapolis, Minn., assignors to Kolstad Company, Minneapolis, Minn., a corporation of Minnesota
Application October 25, 1947, Serial No. 782,106
3 Claims. (Cl. 214—65.4)

1. In a case-carrying truck, a chassis, a pair of arms pivotally supported on said chassis for swinging movement toward and away from each other, the outer ends of said arms being disposed in lateral spaced relation on said chassis, said arms having other ends directed inwardly toward each other, a loose connection between said inwardly directed ends, and a case-engaging device mounted on said connection and swingable forwardly and rearwardly on said chassis and relative to said inwardly directed ends.

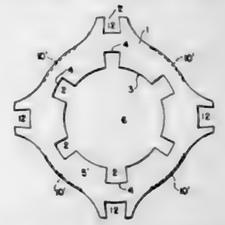
2,533,353
STARTING ROD FEED DEVICE FOR GAS TORCHES
Edward J. Clinton, Jr., Chatham, and John J. Flynn, Jersey City, N. J., assignors to Air Reduction Company, Incorporated, a corporation of New York
Application May 7, 1949, Serial No. 91,968
6 Claims. (Cl. 110—22)

1. A starting rod feed device for gas torches comprising a clutch collar having an opening to receive the starting rod, and means for reciprocating said collar forwardly and rearwardly lengthwise of the starting rod and for positively canting the collar to cause the rod to move with the collar during the forward stroke of the collar, said means comprising a pivoted lever which extends toward the starting rod, a pivoted link which also extends toward the starting rod, the clutch collar being pivotally mounted on said link, and means for actuating said lever about its pivot to swing the end of the lever nearest the starting rod back and forth in the direction in which the clutch collar is reciprocated, a part which is rigid with the clutch collar being arranged to be engaged by said end of the lever when such end moves forwardly whereby the clutch collar is swung on its pivot to maintain it canted and the link is swung forwardly to ad-



vance the starting rod, and a part which is rigid with said lever being arranged to engage said link during the rearward movement of said end of the lever to then cause the link to swing rearwardly and thereby impart the rearward or return stroke to the clutch collar, said part on the clutch collar then functioning to cause the clutch collar to swing rigidly with the link whereby the clutch collar will be in canted position at the end of its return stroke and the beginning of its forward stroke.

2,533,354
PAINTBRUSH HOLDER
John Comfort, Nahant, Mass.
Application January 13, 1949, Serial No. 70,660
1 Claim. (Cl. 211—65)

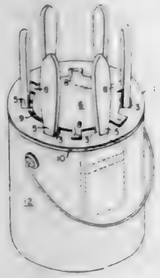


A paint-brush holder for paint containers comprising a member having an inner circular opening therein, a plurality of varying size notches in the member extending outwardly from the inner circular opening towards the outer periphery of the holder, lips extending below the member beyond said notches, said lips adapted to engage a wall of the container, and a second series of notches in the member beyond the wall of the container intermittently spaced around the periphery of the holder and extending inwardly from said periphery.

2,533,355
PAINTBRUSH HOLDER AND COVER THEREFOR
John Comfort, Nahant, Mass.
Application March 23, 1949, Serial No. 83,021
2 Claims. (Cl. 211—65)

1. A paint brush holder comprising a member having a flange extending below the main body of the member and adapted to fit over the edge

of an open top container and in cooperative engagement therewith, an opening in the member surrounded by notches cut in the member and having mouths communicating with said open-



ing, and a cover for the holder comprised of the unitary piece of the material cut from the holder to form the member, the first mentioned opening and the notches.

2,533,356

CASEIN FILAMENTS TREATED WITH MERCURIC SALT AND FORMALDEHYDE SOLUTION

John F. Corwin, Unadilla, John R. Calhoun, Bainbridge, and Thomas M. Buzzo, Unadilla, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application February 6, 1948, Serial No. 6,806
8 Claims. (Cl. 8—127.6)

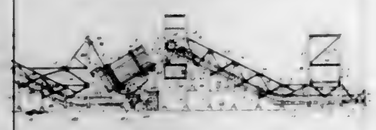
1. In a process for treating artificial filamentous structures formed from casein after coagulation but prior to drying, the step comprising subjecting said structure to treatment in an aqueous solution comprising 0.5% to 5.0% of a mercuric salt and formaldehyde at a pH of 2.0 to 6.0 and at a temperature between 150° F. to 190° F.

2,533,357

SUGAR CANE CLEANING METHOD AND APPARATUS

Frank T. Crawford, Waipahu, Oahu, Territory of Hawaii

Application February 20, 1947, Serial No. 729,838
16 Claims. (Cl. 127—2)



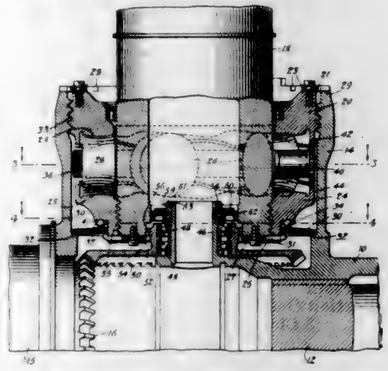
1. In a sugar-cane cleaning apparatus, the combination of an elongated inclined enclosure having peripheral offal-discharge openings, an inlet and an outlet for stalks of sugar-cane at opposite ends thereof and serving as a passage for the latter, means within said passage to separate and aid in advancing the traveling movement of said stalks of sugar-cane through said passage, and means at one end of said enclosure to direct a flame of fire into said passage to attack the separated stalks of sugar-cane passing therethrough and free the latter of foreign matter to be passed through said offal discharge openings.

2,533,358

VARIABLE PITCH PROPELLER

Maurice E. Cushman, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application June 11, 1945, Serial No. 598,792
8 Claims. (Cl. 170—160.11)



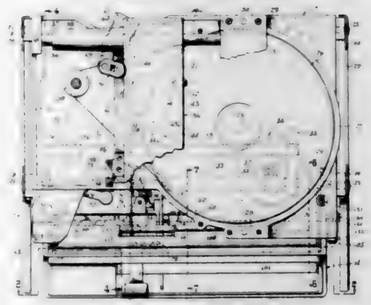
1. In combination, a propeller hub having a socket for receiving the shank of a variable pitch propeller blade, a blade shank positioned in said socket, blade retention means comprising a roller thrust bearing including opposed roller raceways having multiple segmental circumferentially inclined cam surfaces of equal length and a roller for each pair of such opposed cam surfaces, said cam surfaces being inclined and so disposed and arranged as to compensate for the blade centrifugal twisting moment, means for retaining said rollers in proper angular relation to said opposed raceways and segmental cam surfaces thereof, a boss in the base of said socket rigid with the socket, pitch-changing means journalled on said boss and having axially sliding splined engagement with internal splines in said shank, and means for sealing the annular space between the tip of said boss and the inside wall of said shank.

2,533,359

TRANSDUCER CARRIAGE FEED AND CONTROL MECHANISM THEREFOR

Charles W. Dann, Malden, Mass., and Richard M. Somers, West Orange, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application March 12, 1948, Serial No. 14,506
8 Claims. (Cl. 274—13)



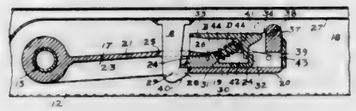
1. A drive for a carriage of a dictating machine comprising a frame; a mounting on said frame for supporting said carriage only for rectilinear traveling movement; a feed screw extending along the path of movement of said carriage; a circular feed nut journalled on said carriage and continuously engaging said feed screw; releasable locking means for holding said feed nut from turning relative to said carriage whereby a turning movement of said feed screw will produce a traveling movement of said carriage; and means operatively coupled to said locking means and operated during movement of said carriage into the end portion of its forward travel for releasing the locking means whereby to disable said drive.

2,533,360

LATCH MEANS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application February 3, 1947, Serial No. 726,068
1 Claim. (Cl. 292—207)



In a latch means for a swinging operating lever having a hand grip portion at its outer end, the combination with a latch bolt mounted on said lever for sliding movement lengthwise of said lever; of a spring abutment on said bolt between the ends thereof; a laterally projecting lug on said bolt outwardly beyond said spring abutment; an arm pivoted at its outer end on the hand grip portion of the lever for lateral swinging movement toward and away from said hand grip; a laterally inwardly projecting lug on said arm inwardly of the pivot thereof, said lug being engaged with the lug of said bolt to retract the latter when the arm is swung laterally toward said hand grip portion, said arm having a spring abutment face at the base of the lug thereof; and a spring bearing at opposite ends on said spring abutment of the bolt and abutment face of said arm, and reacting between said bolt and arm to project the former to latching position.

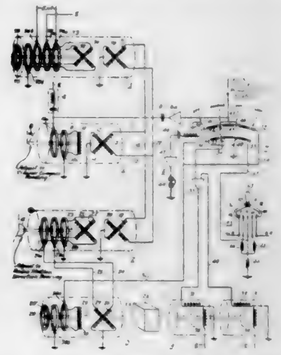
2,533,361

RADIO TRAINING SYSTEM FOR AIRCRAFT PILOTS

Richard Carl Dehmel, Short Hills, N. J.

Application June 22, 1946, Serial No. 678,553
17 Claims. (Cl. 35—10.2)

1. In a radio training system for navigators, means for simulating radio compass equipment comprising voltage resolving means having relatively movable coacting parts, one of which is adapted for adjustment to an angle representing a trainer compass heading, a second voltage resolving means having additional relatively movable coacting parts, one of which is adapted for adjustment to an angle representing a radio station direction bearing from a reference direction, both said resolving means being electrically interconnected with one of said resolving means functioning as a transmitter and the other as a receiver so that one of said adjustments modifies the other, a radio compass indicating element, and electrical means solely responsive to resolved voltages resulting from said modified adjustment for positioning said element so as to represent the difference between said angles thereby deter-



mining the corresponding radio compass bearing angle with respect to said station.

2,533,362

TRANSIT CONCRETE MIXER HAVING ADJUSTABLE DISCHARGE HEIGHT

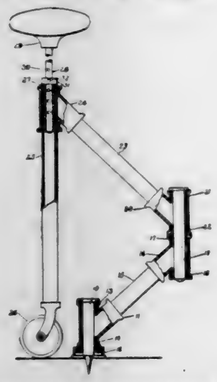
Bernard F. Devine, Wauwatosa, and Louis G. Hilkemeier, Greenfield, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 10, 1947, Serial No. 790,738
4 Claims. (Cl. 259—176)

1. A self-contained concrete mixing or agitating unit for tiltable mounting upon the chassis of a road vehicle without modification of such chassis, said unit comprising a frame including a pair of transversely spaced longitudinal sills disposable directly upon said chassis, and similarly spaced vertical members extending upwardly from the rearward ends of said sills; a receptacle for the concrete materials rotatably mounted on said frame with its axis of rotation substantially parallel to said sills, said receptacle having a discharge opening in its rearward end disposed between said vertical frame members; means in said receptacle for agitating concrete materials therein and moving the concrete to and through said discharge opening; hinge devices carried by the forward ends of the sills and provided with means for ready attachment thereof to the vehicle chassis, whereby the unit may be mounted on the latter for vertical swinging movements between a normal horizontal mixing position and a rearwardly-upward inclined discharging position; means carried by said unit frame for so moving the unit, comprising a hoist device disposed adjacent each of said vertical frame members, connections between the upper ends of said hoist devices and said from members pivotally supporting the devices on such mem-

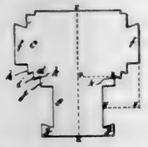
bers, and pivotal means carried by the lower ends of said devices and readily attachable to the chassis, said upper pivotal connections being substantially in the horizontal plane of the center of gravity of the receptacle when loaded, whereby said hoist devices may effectively resist the torque developed by the rotating receptacle and increase the stability of the machine when the unit is elevated; and means for actuating said hoist devices simultaneously.

2,533,363
HORIZONTALLY SWINGABLE STOOL
John J. Donohoe, Bellrose Manor, and Eugene A. Glasser, Kew Gardens, N. Y.
Application April 6, 1946, Serial No. 660,058
4 Claims. (Cl. 155—81)



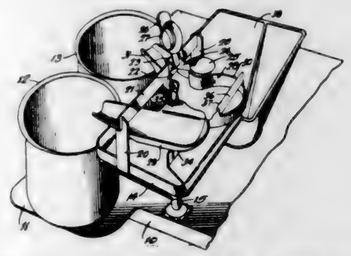
1. An adjustable stool comprising an angularly disposed member having means adapted to be rotatably secured to the floor, a second angularly disposed member connected to said first member, a third angularly disposed member, means rotatably connecting said third member with said second member, a fourth angularly disposed member connected to said third member, and a seat carrying member rotatably mounted in means on said fourth member.

2,533,364
COMPOSITION SHINGLE
Harold W. Greider and Walton V. Leibrook, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, Lockland, Ohio, a corporation of Ohio
Application December 14, 1949, Serial No. 132,972
2 Claims. (Cl. 108—7)



1. A high velocity wind resistant T lock flexible shingle for single coverage being of geometrically symmetrical shape and having a head having a straight upper edge and a tab at each lateral side, the lateral edges of the two tabs being parallel, a parallel sided shank having a straight lower edge and having a locking tab projecting at each side of said lower edge, the line of attachment of said locking tab to the shank permitting vertical flexing of the shank and being from one-fourth to one-sixth the total length of the shank, a stepped portion between the head and shank the vertical height of which is materially less than either the head or shank joining the head and shank and composed of three steps each of different size, and having a locking corner adjacent the intermediate of the three steps, said intermediate step being of acute angular formation and having a side edge providing a transverse abutment against lateral displacement of the upper edge of the locking tab of another similar shingle in an overlying interlocked course, the distance from a side of the shank to the line of the outer edge of the head tab on the same side of the shingle being equal to the distance from the locking corners to the axis of symmetry of the shingle, and the lateral width of the locking tabs being less than the lateral width of the lower step whereby when said shingles are laid in courses said less width dimension between tabs and steps provides clearance, in laying an overlying course of shingles of double said less width dimensions.

2,533,365
EGG YOLK AND WHITE SEPARATOR
Otto W. Groeber and William McCord, Louisville, Ky., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
Application June 21, 1947, Serial No. 756,200
2 Claims. (Cl. 146—2)

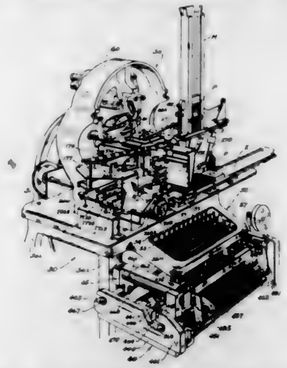


1. In egg separator apparatus, a frame providing a raised support, a pair of troughs removably carried by said support in downwardly inclined position to discharge at one side of said frame, one of said troughs being adapted to receive egg whites and the other of said troughs being adapted to receive egg yolks, said troughs diverging as they extend downwardly to provide spaced discharge points, a guide rail supported by said frame above said troughs, a yolk-separating cup tiltably carried by said rail over said trough for receiving egg whites, said trough for receiving egg whites being provided with a whites receiving pocket at a point outwardly from the point where the whites drop from the cup thereon, and an apron carried by the yolk trough and extending over the whites trough.

2,533,366
RECORD CONTROLLED EMBOSSING MACHINE
John H. Gruver, East Cleveland, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application November 1, 1947, Serial No. 783,588
12 Claims. (Cl. 197—20)

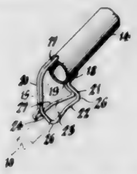
1. In an automatic record controlled embossing machine, an embossing unit having a plurality of settable pairs of punches and dies, power operated plate handling means including

means for loading and unloading printing plates, character spacing means and power operated line spacing means for imparting movements to such plates with respect to an embossing position in the machine, and control means including a space bar for controlling said character spacing means and a plurality of control keys for selectively setting and causing embossing operation of said pairs of punches and dies, a record controlled governing unit including a plurality of rockers allocated one to each key of said machine and one to said space bar and one to each of said power operated means, a single cycle drive means for said governing unit, a record reading means operable in each such cycle to read a predetermined portion of a record, and means responsive to such reading means to actuate said rockers selectively, and an intermediate unit having a



plurality of transmitting levers allocated to the respective keys of said machine and each having a transmitting link connected to the key to which such lever is allocated, a hook element for each such lever having a yielding lost motion connection with its lever for actuating the same, each of said hook elements being operatively engaged with the related one of said rockers for actuation thereby, control connections between said power operated means, said space bar and the respective rockers allocated thereto, control means for said single cycle drive means of said governing unit for initiating a single cycle of operation thereof, and means for governing said last mentioned control means and operable by either said plate loading means, said line spacing means, or said space bar or as an incident to release of any one of said keys to cause operation of said single cycle drive means of said governing unit.

2,533,367
WEATHER STRIP INSTALLATION TOOL
Frank Gruszecki, Buffalo, N. Y., assignor of one-half to Henry Rothenberg, Buffalo, N. Y.
Application June 21, 1948, Serial No. 34,200
3 Claims. (Cl. 29—270)



1. A tool for threading flexible material into a flexible-walled slot, comprising a hollow handle, means attached to and extending beyond one end of the handle and defining a material-threading portion and a wall-spreading portion, said means being composed of two strands of wire disposed side by side and bent into substantially the form of a closed loop with its axis crosswise of the handle, the loop-defining wire means having the strands thereof secured at one end to one side of the handle and extending forwardly and transversely therefrom in substantially contiguous relation and diverging outwardly to form a downwardly-facing, material-engaging guide, then converging rearwardly therefrom to form elongated wall-engaging and spreading portions and then extending upwardly at their rear ends and secured to the opposite side of the handle.

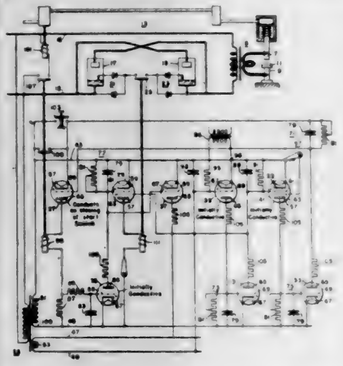
2,533,368
UNDULATING TRACK OCCUPANT PROPELLED ROUNDABOUT
Henry Hansen and Cecil F. Brown, Kansas City, Mo.
Application November 18, 1946, Serial No. 710,544
5 Claims. (Cl. 272—33)

2. A merry-go-round comprising a base forming a substantially circular track having equally spaced vertical undulations therein and carrying a vertically disposed center post, a rigid member mounted for rotation and vertical movement on said center post, a plurality of equally spaced apart wheels carried by said rotatable member and disposed respectively on radially disposed axles and adapted to rest on said track, said wheels being equal in number to the undulations of said track and equally spaced circumferentially about said track, seats mounted on said rotatable member, and manually operable propulsion means carried by said rotatable member to rotate said wheels, whereby a child mounted on one of said seats may cause said propulsion means to rotate rotatable member.

2,533,369
ELECTRONIC SEQUENCE TIMER
Edward C. Hartwig, Tonawanda, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 4, 1948, Serial No. 47,812
17 Claims. (Cl. 315—246)

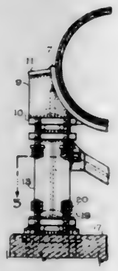
1. In combination a first thyratron having an anode, a cathode and a control electrode, connections to said control electrode for controlling the conductivity of said first thyratron, a second thyratron having an anode, a cathode, a first control electrode and a second control electrode, connections between the anode and cathode of

said first thyratron and said first control electrode, a third thyratron having an anode and a cathode, connections to said third thyratron for



controlling the conductivity thereof and connections between said anode and cathode of said third thyratron and said second control electrode.

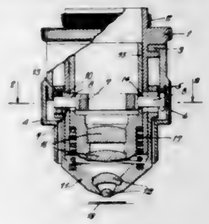
2,533,370
PIPE SUPPORT
Thaddeus L. E. Haug, Berkeley, Calif.
Application March 29, 1948, Serial No. 17,770
5 Claims. (Cl. 248—73)



2. A pipe support, comprising a curved strap adjacent to the pipe shell and bearing radially upon it, ball-and-socket joints fastened to the strap in such a position that a straight line, radial to the socket bearing surface at the mid point thereof, is approximately tangential to the curve of pipe shell and strap; and bolts across the ball-and-socket joints, whereby said joints may be temporarily immobilized so as to hold the strap in a stationary position while the pipe is being installed upon it.

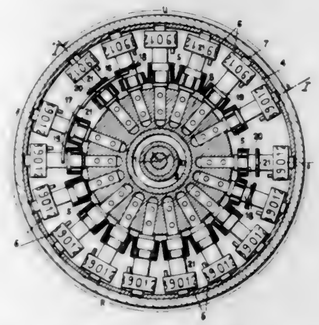
2,533,371
HOLDER FOR MICROOBJECTIVES
Hermann Heine, Wetzlar, Germany, assignor to Ernst Leitz G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application October 23, 1948, Serial No. 56,193
In Switzerland July 16, 1948
10 Claims. (Cl. 88—57)

1. A microscope objective which comprises a mounting element, a pair of lens carriers independently slidable relative to said mounting element, said objective having at least two lens components, one of the lens components being mounted in each lens carrier, and a differential transmission between said mounting element and said lens carriers to move said lens carriers in op-



posite directions relative to said mounting element at predetermined rates to vary the focal length of said objective.

2,533,372
ZEROIZING MECHANISM
Curt Herzstark, Mauren, Liechtenstein
Application June 20, 1949, Serial No. 100,126
In Austria May 15, 1946
4 Claims. (Cl. 235—144)

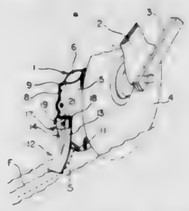


1. In a pocket-size calculating machine, a main shaft rotatably mounted in a casing, a plurality of shafts arranged spaced and parallel to said main shaft and along a circular line concentric with the axis of said main shaft, said shafts forming the driving members of a product counter mechanism and a revolution counter mechanism respectively, a pinion at the end of each of said shafts and adapted to mesh with a transfer wheel, an axially movable body rotatably mounted about the axis of said main shaft and having fixedly mounted thereon a plurality of radially extending axles, one for each of said shafts, said transfer wheels being rotatably mounted on said radial axles and being each associated with a numeral wheel, a re-setting member rotatably mounted on said axially movable body and provided with two curved serially arranged re-setting racks adapted upon relative rotation with respect to said body to engage said transfer wheels, spring means for normally urging said body in an axial direction in which said transfer wheels engage the pinions on said shafts, and means operable upon initial rotation of said re-setting member for moving said body in the opposite direction in which said transfer wheels disengage said pinions, whereupon said re-setting racks upon continued rotation engage said transfer wheels and returns said numeral wheels to zero.

2,533,373
CIRCUMCISION INSTRUMENT
Harold A. Hinckley and Roe C. Hawkins, Long Beach, Calif.
Application May 19, 1947, Serial No. 748,935
3 Claims. (Cl. 128—346)

1. A circumcision instrument comprising a base, said base having an opening in one end thereof, a handle pivotally mounted on the base, a cup adapted to fit in said opening, a stem rising from the cup, and means pivotally supporting the stem on the handle, said cup having an elliptical recess in the bottom thereof and a vertical groove in one side thereof.

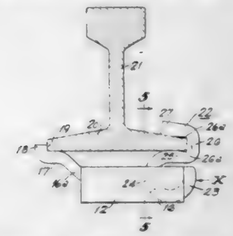
2,533,374
DIRT GUARD FOR GRAIN DRILLS
William A. Hyland, Horicon, Wis., assignor to John Deere Van Brunt Company, a corporation of Wisconsin
Application March 25, 1946, Serial No. 656,947
9 Claims. (Cl. 111—85)



2. The combination with a generally downwardly extending generally tubular seed boot having a generally rearwardly and downwardly facing seed discharge opening in the lower end of said boot, of a dirt guard gate comprising a strip of flexible material fitted around the rear portion of said tubular seed boot and hanging over said seed opening, and means for holding the upper part of said strip to said seed boot so that normally the strip retains a curvature corresponding generally to the shape of the portion of the seed tube to which said strip is held.

2,533,375
RAIL ANCHOR
Jacob A. Hyle, Pittsburgh, Pa.; Fidelity Trust Company administrator of said Jacob A. Hyle, deceased
Application May 3, 1949, Serial No. 91,169
6 Claims. (Cl. 238—327)

3. In a rail anchor, the combination including an intermediate portion consisting of a pair of spaced apart substantially vertical walls, an arm fixedly connected to one end of said walls and inclined outwardly and upwardly therefrom, an angular jaw carried by the free end of said arm and arranged to engage one of the longitudinal perimetral edges of the base flange of a rail, and a substantially S-shaped spring fixedly connected at its lower extremity to the opposite end of said walls and extending up between the walls and free of engagement with the latter, the upper loop of said S-spring being elevated above said walls and facing inwardly over the latter to form

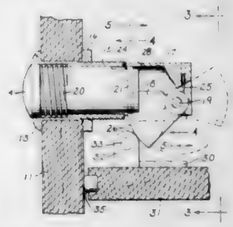


a jaw to engage the opposite edge portion of the base flange of the rail to finally seat the anchor in operative position.

2,533,376
COPOLYMERIZATION OF MALEIC ANHYDRIDE AND ALLYL ESTERS OF LONG CHAIN MONOCARBOXYLIC ACIDS
John Leslie Jones, Los Angeles, Calif., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
No Drawing. Application October 23, 1947, Serial No. 781,765. In Canada June 14, 1946
14 Claims. (Cl. 260—78.4)

1. A polymerizable composition consisting of (1) maleic anhydride and (2) an ester of (*a*) an unsubstituted beta-gamma-olefinic monohydric alcohol having from three to four carbon atoms of which not more than three form a chain in series with (*b*) an unsubstituted, saturated, aliphatic monocarboxylic acid having from six to eighteen carbon atoms.

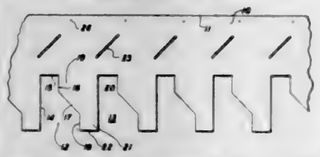
2,533,377
DOOR LATCH
Dennis W. Keef, Portland, Oreg., assignor to Phillips Tutch-Latch Company, a corporation of Delaware
Application October 10, 1947, Serial No. 779,167
12 Claims. (Cl. 292—227)



1. Means for latching together two separable members such as a cabinet and a door therefor, comprising an elongated, hollow support adapted to be mounted on one of said members, a plunger slidably mounted for longitudinal movement in said support, said plunger having a recess therein, a spring biased between said support and said plunger and normally maintaining said plunger in one position with respect to said support, a dog pivotally mounted on said support and swingable from a laterally projecting position to a partially retracted position in either direction longitudinally of said plunger, said dog and said plunger being so related that a portion of said dog may enter said recess when said dog is retracted in

one direction, and a spring catch device mounted upon said plunger in position to engage said portion of said dog when swung into said recess while said plunger is in said normally maintained position, said plunger being movable longitudinally against the force of said spring to another position at which said spring catch device is removed from engagement with said dog.

2,533,378
ROOFING
Hadi King, Redondo Beach, Calif.
Application June 3, 1946, Serial No. 674,096
9 Claims. (Cl. 108—7)

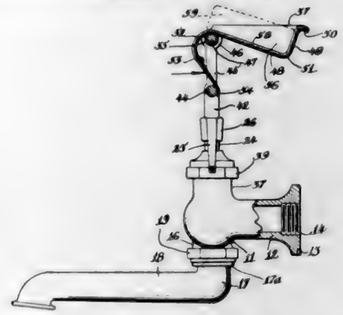


1. In a shingle strip formed of flexible material, comprising: a body portion having one substantially straight marginal edge, the other marginal side being so shaped as to provide alternating recesses and shingle tabs of reduced size adjacent their free ends, said body portion having slots adjacent the respective recesses, extending diagonally with respect to said straight edge, the free end portions of the shingle tabs being received in respective slots of an underlying strip.

2,533,379
ENGINE STARTER
John Knezo, Jr., Garwood, N. J., assignor to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey
Application January 15, 1947, Serial No. 722,115
5 Claims. (Cl. 123—183)

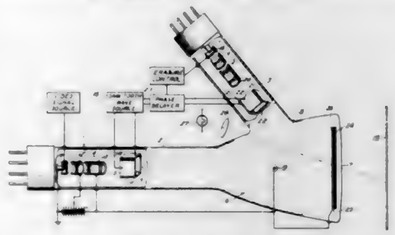
5. In an engine starter, a barrel member, a piston slidable within the barrel having a plurality of piston rings therearound, a rack within the barrel integral with the piston and a pinion having a shaft and a starting jaw attached to the shaft by means of a shear pin, said jaw being provided with a plurality of buttressed teeth actuated by the piston, a breech mechanism comprising a cylindrical magazine bored to receive a plurality of cartridges therein, indexing means adjacent the magazine comprising a sprocket integral with the said magazine, a tooth on the end of the barrel and a threaded engagement between the barrel and breech whereby the tooth may be caused to trip the said sprocket and a firing means comprising a firing pin, a spring mounted cocking cylinder and a trigger, said breech being adjacent one end of the barrel to receive and discharge cartridges into the barrel, a discharge port in the said barrel and a spring member adjacent the opposite end of the barrel having one end connected to the barrel and its other end joined to the said piston to return the piston to its prefiring position.

2,533,380
SOAP DISPENSER FOR PLUMBING FIXTURES
Louis Levy, Passaic, N. J.
Application October 5, 1946, Serial No. 701,571
3 Claims. (Cl. 45—28)



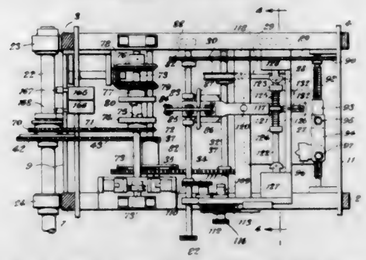
1. A soap cake ejector for a plumbing fixture consisting of a frame including a pair of vertically spaced cross-members, means for mounting said frame to the plumbing fixture, a receptacle for the soap cake mounted for rotation on and normally extending rearwardly and in tilted position of the upper cross-member, a forward apron extending from the said receptacle and extending rearwardly and being engageable with the rear of the lower cross-member, the said apron being rearwardly yieldable to displace the receptacle to opposite tilting position for soap ejection.

2,533,381
ELECTROOPTICAL DARK TRACE PICTURE TUBE
Gustave Levy and Walter Simbrat, East Orange, N. J., assignors to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application October 23, 1948, Serial No. 56,086
9 Claims. (Cl. 315—13)



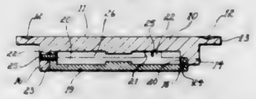
1. Electro-optical translation means, comprising a cathode-ray tube having electron gun means for developing a first cathode-ray beam having its intensity modulated between predetermined limits and another unmodulated beam of much higher beam intensity than the first beam, a storage screen of the ionic crystal signal storage type located within said envelope in spaced relation to the wall thereof, said screen comprising a stratum of dark trace ionic material responsive to an impinging cathode-ray beam to develop elemental areas of corresponding variable opacity, and a sheet-like backing for said stratum, said backing having substantially its entire area out of direct heat conductive contact with the wall of said envelope.

2,533,382
LAYER WINDING MACHINE
Leo R. Lorenz and Riley Patterson, Muskegon, Mich., assignors to Anaconda Wire and Cable Company, a corporation of Delaware
Application August 24, 1945, Serial No. 612,360
14 Claims. (Cl. 242—25)



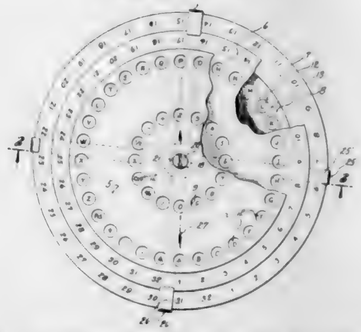
1. In a layer winding apparatus, the improvement which comprises means for driving a spool on which the wire is wound, a traverse guide movable back and forth across the face of the spool for directing the winding of each layer of wire on the spool, means for adjusting the limits of movement of the traverse guide to effect a precise laying of the wire with respect to the side edges of the spool, and means for adjusting the rate of travel of the traverse guide relative to the speed of rotation of the spool in accordance with the width of the wire being wound.

2,533,383
HEAT DISTRIBUTING PLATE
Dwight Marfield, Pasadena, Calif.
Application April 22, 1946, Serial No. 664,106
1 Claim. (Cl. 126—214)



A heat equalizing member for use in cooking food, comprising a flat lower plate whose opposite horizontal faces are parallel with each other throughout a defined heat transfer area, said plate being of such dimensions as to extend beyond the direct vertical boundary of a source of cooking heat, a flat upper plate whose opposite horizontal faces are parallel with each other, said upper plate being of dimensions to extend substantially beyond the boundaries of the lower plate, said upper plate overlying the lower plate and being separated from the lower plate to form an unobstructed air space over the source of heat, a continuous flange extending between the under surface of the upper plate at an area spaced inwardly from the periphery of said plate and surrounding the outer edge of the lower plate to form a lateral boundary for the air space, and fastening means passing transversely between the flange and the outer edge of the lower plate, the lower inner surface of the flange being recessed and surrounding the outer limits of the lower plate and the outer edge of the lower plate being shaped to cooperate with the recess in the flange to form an air-tight lap joint between the flange and the lower plate to seal the air within the air space whereby heat transferred from the lower plate to the upper plate occurs principally through the flange and the sealed air space maintains a substantially uniform temperature throughout the upper surface of the upper plate.

2,533,384
APPARATUS FOR ENCIPHERING AND DECIPHERING CRYPTOGRAPHIC COMMUNICATIONS
Francisco Miranda Martinez, Alcala de Guadaira-Sevilla, Spain
Application June 9, 1949, Serial No. 98,004
In Spain June 14, 1948
6 Claims. (Cl. 35—2)

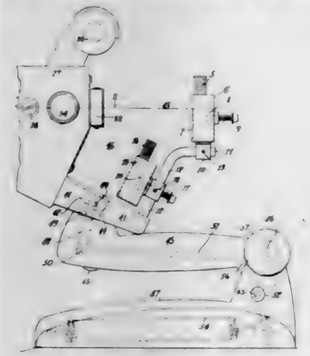


6. An apparatus for enciphering and deciphering cryptographic communications comprising: a plurality of concentric superimposed disc-like members of different diameters, one of said members having a series of circumferentially spaced pockets along its marginal edge; a plurality of individual elements upon which intelligence conveying characters are delineated, each removably received in one of said pockets with the characters thereon visible from one side of the apparatus; means delineating a series of cryptographic characters along the marginal edges of said disc-like members; and means for holding the disc-like members assembled for relative rotation about a common axis so that the cryptographic characters thereon may be brought radially into line with the intelligence conveying characters in accordance with any prearranged relationship.

2,533,385
TELEBINOCULAR INSTRUMENT FOR CONDUCTING VISION TESTS IN INDUSTRIAL OCCUPATIONS
Gifford M. Mast and Wright K. Gannett, Davenport, Iowa, assignors to Keystone View Company, Meadville, Pa., a corporation of Pennsylvania
Application August 19, 1948, Serial No. 45,005
1 Claim. (Cl. 88—20)

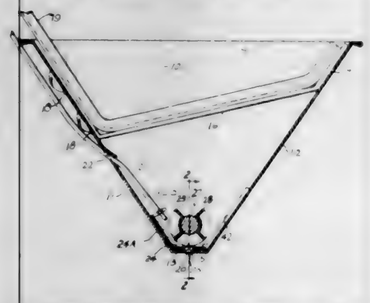
An instrument of the character described comprising a housing including a base; a movable optical lens system in said housing; a first magazine containing a near point vision target; a second magazine containing a far point vision target; shafts in said base; means for adjustably supporting the said two magazines upon the said shafts in visible accessible spaced relation to said housing and in spaced near point and far point relations to the said lens system, respectively; means in the housing for moving said lens system into either a near point or a far point target viewing position comprising a lens casing including lenses; means for adjustably pivoting said lens casing in the said housing; a cam rotatably mounted in the housing; a pin on said lens casing resting by gravity upon the cam; a hand knob for rotating the cam to lift the lens system into a far point target viewing position or permit the

lens system to drop by gravity into a near point target viewing position; an overhead lamp for illuminating said targets and a light shield pivoted on the said lens casing below the same and



adapted to swing automatically away from said casing to exclude extraneous light from illuminating the said near point vision target when the said lens casing is moved into position for viewing the said far point target.

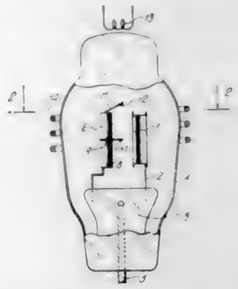
2,533,386
FERTILIZER SPREADER
Edwin L. Masters, Benton Harbor, Mich.
Application August 19, 1946, Serial No. 691,533
4 Claims. (Cl. 259—44)



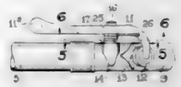
1. In a fertilizer spreader, a hopper having discharge openings in its bottom, agitating means comprising aligned toothed sections in said hopper adjacent said discharge openings, one of said sections carrying a sleeve bearing, a pair of aligned shafts in said hopper for supporting said agitating sections with one shaft supported in said sleeve bearing, means for securing said shafts to said agitating sections whereby one shaft will have relative movement with respect to the other shaft, and said shafts being adapted to rigidly support ground wheels at the ends of said hopper.

2,533,387
METHOD AND APPARATUS FOR MAKING DYNODES
William S. McLean, Woodbury, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application November 16, 1948, Serial No. 60,333
5 Claims. (Cl. 250—174)

1. A secondary emission dynode-forming member consisting of a backing member of oxygen-free copper having a thin coating of secondary electron-emission material said coating comprising an underlayer of barium, an intermediate layer containing magnesium, and an overlayer of barium.



2,533,388
WATER KEY FOR TROMBONES AND THE LIKE
Fred N. Meyers, Andover, Ohio, assignor to The H. N. White Company, Cleveland, Ohio, a corporation of Ohio
Application December 13, 1947, Serial No. 791,631
7 Claims. (Cl. 84—397)

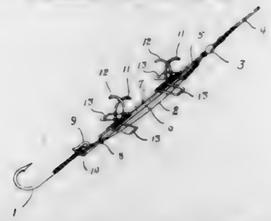


1. In a musical instrument of the wind type, a boss-like member extending from said instrument, a water key mounted on said member for rotation thereabout, and spring means coiled about the axis of rotation of said key and biasing said key to closed position, said spring means having the ends thereof concealed from view.

2,533,389
VALVE ACTION MECHANISM FOR WIND INSTRUMENTS
Fred N. Meyers, Andover, Ohio, assignor to The H. N. White Company, Cleveland, Ohio, a corporation of Ohio
Application August 27, 1948, Serial No. 46,478
7 Claims. (Cl. 84—385)

1. In a musical instrument of the character described, an octave key, a second octave key, means for opening said first octave key, said means comprising a lever movable about a fixed axis, a second lever, means communicating the movement of the second lever to the first lever, said last-named means comprising a third lever having recesses in its opposite ends, said first lever extending through one of said recesses, said second octave key being movable about said fixed axis and having a post extending therefrom disposed in the other of said recesses.

2,533,390
LIVE BAIT HOLDER
Henry Miller, Superior, Wis.
Application June 15, 1946, Serial No. 677,052
1 Claim. (Cl. 43—44.6)

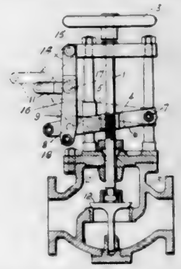


In combination with a fishing hook and leader, a bait saving device comprising a wire body portion having one end pivotally secured at the upper end of said leader, a friction hook formed at the opposite end of said body portion, and bait holding means carried by said body portion intermediate of the ends thereof, said friction hook being engageable with the upper end of said fishing hook to hold said body portion in substantially parallel relation with said leader, with said leader having a slight amount of slack whereby a pull on said fishing hook will take up said slack and disengage said friction hook from its connection to said fishing hook to permit said bait saving device to swing away from said fishing hook.

2,533,391
COMBINATION STEP AND WALL LADDER
Carl J. Miller, Rochester, N. Y.
Application May 14, 1947, Serial No. 747,981
9 Claims. (Cl. 228—23)

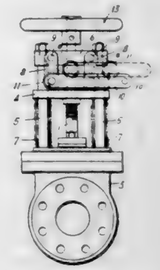
1. A ladder assembly comprising a front ladder member having side rails in parallel spaced relation and a step member over the tops of said side rails, a rear ladder member having side rails in parallel spaced relation and hinged at one end to said step member, and an extension member having side arms extending from each side rail of said rear ladder member and each laterally and outwardly off-set, and having a cross-bar between said side arms and above said step member in folded and adjacent positions of said ladder members, the side rails of the first-mentioned ladder member each being provided with a recess to receive said cross-bar and the rear edge of said step member being provided with notches spaced to receive the respective side rails of the rear ladder member when said ladder members are unfolded into substantial alignment.

2,533,392
OPERATING MECHANISM FOR MOVING A ROD OR OTHER MEMBER AXIALLY
William Nelson, Glasgow, Scotland, assignor to James Howden & Company Limited, Glasgow, Scotland, a company of Great Britain
Application March 31, 1948, Serial No. 18,169
In Great Britain April 9, 1947
2 Claims. (Cl. 74—100)



1. The combination with a rectilinearly movable member formed with trunnions, of a lever mounted on a fixed pivot and formed with slots engaged by said trunnions, at least one pair of toggle links pivotally jointed to one another at their adjacent ends, one of said links being mounted on a fixed pivot at the end remote from the joint, and the other link being pivoted to said lever at the end remote from the joint, an operating link connected to the joint of said toggle links, and a spring connected at one end to the end of said other link pivoted to said lever and fixed at its opposite end and urging said lever in the direction to cause the remote ends of said toggle links to approach one another.

2,533,393
MECHANISM FOR MOVING A ROD OR OTHER MEMBER IN A STRAIGHT LINE
William Nelson, Glasgow, Scotland, assignor to James Howden & Company Limited, Glasgow, Scotland, a company of Great Britain
Application March 31, 1948, Serial No. 18,170
In Great Britain April 9, 1947
2 Claims. (Cl. 74—100)

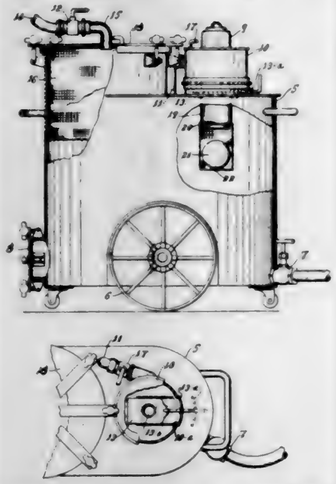


1. The combination with a rectilinearly slidable member of fixed parallel guides on which said member slides, a fixed bridge member joining said guides, spring means urging said slidable member in the direction towards said bridge member, a pair of parallel links of equal length pivoted to said bridge member, rollers carried by the free ends of said links and bearing on said slidable member, and an endwise shiftable rod coupling the free ends of said links.

2,533,394
METHOD OF OBTAINING LARGE GRAIN SIZE IN SILICON STEEL
Everett W. Oppenheimer and Jack E. Lucas, Butler, Pa., assignors to Armco Steel Corporation, a corporation of Ohio
No Drawing. Application February 20, 1947, Serial No. 729,876
8 Claims. (Cl. 148—12.5)

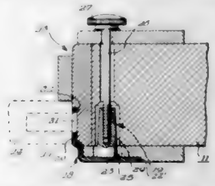
5. A process of producing silicon steel of enhanced grain size and good magnetic properties which comprises subjecting hot rolled silicon steel at an intermediate gauge to a box anneal at substantially from 1200° to 1700° F. with the hot mill scale still on its surfaces, to decarburize the steel to a carbon content not substantially greater than .015%, subjecting the decarburized steel without intervening cold work to an open anneal at substantially 1700° to 2100° F. to produce a large grain size therein, then cold rolling the steel to final gauge, and developing the ultimate magnetic properties of the steel by an annealing treatment.

2,533,395
MACHINE AND PROCESS FOR SEPARATING LIQUID FROM SLUDGE
Wilbur V. Paine, East Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a corporation of Connecticut
Application March 22, 1945, Serial No. 584,195
3 Claims. (Cl. 222—128)



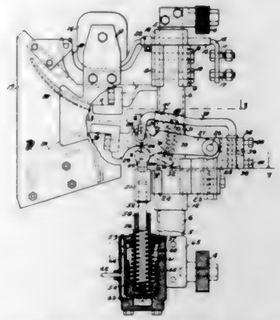
1. A machine of the character described comprising a portable tank, a valve controlled outlet at the lower end of the tank, a motor driven air mover mounted on the top of the tank and in communication with the tank, means controlling communication between the air mover and tank, a valve controlled suction pipe connected to the top wall of the tank, a pipe connecting the air mover to the top wall of the tank, a valve in said pipe open to atmosphere in one position and forming closed communication between the air mover and tank in another position, and all of said valves when in one position being operative to produce a partial vacuum in said tank for drawing material into the tank through said suction pipe and when in another position to create pressure in said tank for forcing material out of the tank.

2,533,396
KEEPER
Frank B. Payne, Oak Park Ill.
Application June 28, 1946, Serial No. 680,201
3 Claims. (Cl. 292—340)



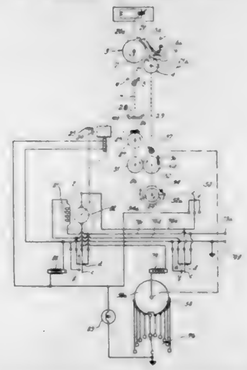
1. A keeper comprising a plate having striker and mounting portions extending substantially at right angles, the one with respect to the other, said striker portion having a latch engaging shoulder formed therein, and said mounting portion having a threaded opening, a threaded anchor stem adapted to engage in said opening in spaced apart, substantially parallel relation with respect to said striker portion, whereby said keeper may be mounted upon a door frame with the said keeper portion lying in the inwardly facing door-jamb surface of the door frame, adjacent and on one side of the door stopping seat of said frame and with the mounting portion extending in the adjacent frame face, on one side thereof, in position to receive the anchor stem in said opening and to support the same in position extending thence through the door frame to the opposite side thereof, and means forming a head on said stem in position to seat on the frame face at said opposite side of the frame to secure the keeper in mounted position on the door-jamb.

2,533,397
ELECTRIC SWITCH WITH FLEXIBLE LEAD DEFORMED BY TORSION
Charles R. Peter, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 15, 1949, Serial No. 71,198
5 Claims. (Cl. 200—166)



3. A switch comprising a frame, a fixed contact mounted on said frame, an arm pivotally supported on said frame, a pivot mounted on said arm for rotation with respect thereto, a carrier mounted on said pivot, a movable contact mounted on said carrier, a flexible lead having a portion mounted on said frame and another portion coaxially connected to said pivot, means intermediate said portions of said lead for holding said lead on said arm, stop means for limiting the pivotal position of said carrier, means imparting a bias to said carrier to said limited pivotal position, and means moving said arm to sequentially cause initial engagement of said contacts, pivoting of said carrier against said bias causing said pivot to revolve on said arm to produce torsion of said flexible lead, and rocking contact closure of said contacts, whereby, said closure is accompanied by a minimum of movement of said flexible lead tending to cause bounce of said movable contact.

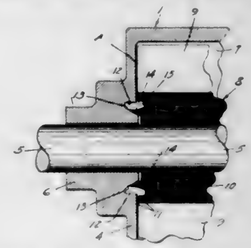
2,533,398
SELECTIVE SHAFT POSITIONING CONTROL
Ross S. Pyle, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application May 21, 1946, Serial No. 671,202
9 Claims. (Cl. 192—142)



1. An arrangement for automatically controlling the angular orientation of a selector shaft, comprising a selector device rotatable with said shaft, a motor driven shaft for rotating said device in one direction to a home position and for rotating said device in the opposite direction to effect a desired selective setting, an eccentric dog rotatable with the motor driven shaft, a pair of pawls rotatable with said device, one of said pawls engageable with said dog to couple said device to the motor driven shaft when the latter is rotating in one direction, the other of said pawls engageable with said dog to couple said device to the motor driven shaft when the latter is rotating in the opposite direction, and an electromagnet having an armature which in one position engages one of said pawls to provide a positive stop for the rotation of said device and for simultaneously decoupling said one of said pawls from driving engagement with said dog.

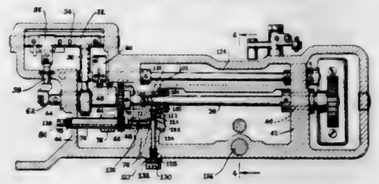
2,533,399
FLUID PRESSURE SEAL FOR ROTARY PUMPS AND THE LIKE
Harry J. Sadler and Ernest E. Cook, Minneapolis, Minn., assignors to Hypro Engineering Co., Minneapolis, Minn., a corporation of Minnesota
Application December 5, 1947, Serial No. 789,912
3 Claims. (Cl. 103—111)

1. In a device of the class described, a stationary element and a rotary element, one of said elements being journalled in the other thereof, said elements having opposed closely adjacent end walls, an annular groove in one of said walls concentric with said rotary element and having a sealing face which tapers inwardly in the direction of the opposed end wall, an annular elastic sealing flange projecting axially outwardly from the other of said end walls and adapted to frictionally engage said tapered sealing face, said flange terminating in an extended free end of less thickness than the base thereof,



the diameter of the extended end of said flange being greater than the minimum diameter of said tapered face but less than the maximum diameter thereof, whereby the free end of said elastic flange will be radially stretched when forced into engagement with said tapered face.

2,533,400
SEWING MACHINE
George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 26, 1946, Serial No. 699,566
7 Claims. (Cl. 112—256)

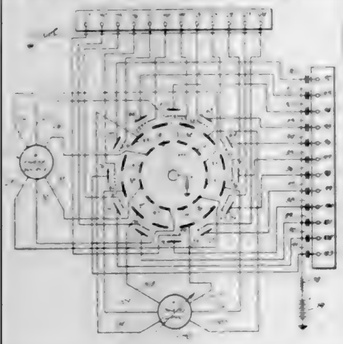


1. In a sewing machine, the combination of a frame, a rotary hook, a rotary hook shaft, a rotary drive shaft, means connecting said drive shaft with said hook shaft for rotation of said hook, a stationary bobbin casing supported in said hook, said hook and casing having cooperating bearing surfaces requiring lubrication, means within said hook for directing lubricant from a point adjacent the axis of said rotary hook shaft to said bearing surfaces, said rotary hook shaft having a passageway extending axially thereof, means in said frame having a recess therein communicating with the end of said passageway remote from said hook, a rotary pump on said drive shaft, a lubricant reservoir communicating with the intake of said pump, means for directing lubricant from the discharge side of said rotary pump to said recess, an adjustable needle valve interposed between said pump and said recess, and means for indicating the position of adjustment of said needle valve.

2,533,401
COINCIDENCE DETECTOR OF THE FOCUSED ROTARY ELECTRON BEAM KIND
Raymond R. Schramm, Bloomfield, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application September 14, 1949, Serial No. 115,588
10 Claims. (Cl. 315—21)

1. Electron discharge tube apparatus having means to develop a rotating electron beam and

including a central electron-emitting cathode, a first cage electrode having a series of sections defining electron permeable windows concentrically surrounding said cathode, means to excite said sections by respective phases of a first multiphase potential source; a second cage electrode surrounding the first cage electrode and having a series of sections defining electron permeable windows in radial alignment with the first men-



tioned windows but displaced radially therefrom, means to excite the sections of said second cage with the respective phases from a second multiphase potential source, a plurality of anodes respectively aligned with said windows, and means to adjust the phase of one of said sources to produce recurring pulses of current at said anodes whose time spacing is controlled by the phase relation between said sources.

2,533,402

MEANS FOR PREVENTING CLOGGING OF DRAIN TROUGHS

William R. Schmitz, Jr., Newark, N. J.

Application September 16, 1948, Serial No. 49,567

5 Claims. (Cl. 108—30)

1. In combination with a conventional eaves trough having a down spout, a foraminous tube in said trough, said tube being formed of a plurality of sections, each being of a size to fit in said trough and prevent accumulation of solid objects therein.

2,533,403

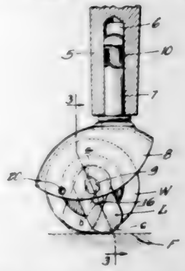
CASTER WITH GROUNDING LINK

Edward Schultz, Chicago, Ill., assignor to The Nagel-Chase Mfg. Co., Chicago, Ill., a corporation of Illinois

Application October 8, 1947, Serial No. 778,700

2 Claims. (Cl. 174—138)

1. A caster in which is comprised a non-conducting wheel, a yoke encasing the upper portion of the wheel and provided with spaced walls extending down along opposite sides of the wheel to a point below its axis, an axle pin for the wheel supported at its two ends by the spaced walls of the yoke, and an interiorly arranged drag link of conducting material fitted between one side of the wheel and the adjacent wall of the yoke, the drag link being formed endwise thereof with a closed slot through which the axle pin is extended in a manner to permit free movement of the link to slide lengthwise of itself upon the pin and also to rotate thereupon, one end of the link being located from the remote end of the slot a distance more than sufficient to engage with the floor surface whereon the wheel is rested and, when vertically disposed, to posi-



tion the remote end of the slot in spaced relation with the axle pin, said link, while continuing its engagement with the floor, being automatically reversible from a forwardly to a rearwardly inclined position and vice versa in response to rolling movement of the wheel in one direction or the other.

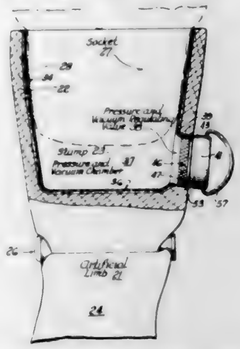
2,533,404

ARTIFICIAL LIMB AND VALVE THEREFOR

Oscar Sharp and William Bellamy, Chicago, Ill., assignors to Oscar Sharp, Chicago, Ill., trustee

Application August 13, 1948, Serial No. 44,077

6 Claims. (Cl. 3—9)



1. An artificial limb including a socket member adapted to receive the stump of a patient's limb, said socket member being formed with an encircling side wall adapted to follow the contour of the stump and having a bottom portion adapted to be spaced from the stump to define a pressure chamber beneath the stump, said socket side wall having a resilient rubber coating adapted to contact the sides of the stump to partially support the same when the stump is pressed into the socket and to provide a substantially airtight engagement therewith, said socket member having valve means disposed to control communication between said chamber and the outside atmosphere and being effective to maintain a predetermined air pressure in said chamber to cushionably support the stump; whereby, when load is applied to press the stump into the socket the stump is supported by said predetermined air pressures acting uniformly over the bottom of the stump in addition to the support afforded by the socket side wall itself.

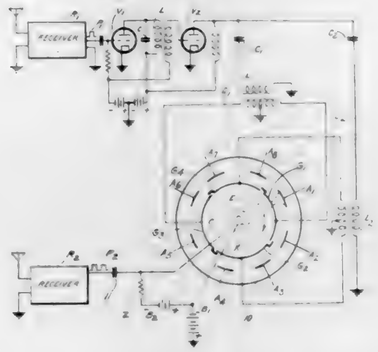
2,533,405

DEMODULATION APPARATUS FOR PULSE MULTIPLEX PULSE TIME MODULATED SIGNALS

Albert M. Skellett, Madison, N. J., assignor to National Union Radio Corporation, Newark, N. J., a corporation of Delaware

Application September 15, 1945, Serial No. 616,508

7 Claims. (Cl. 179—15)



1. Electron discharge apparatus particularly for the demodulation of received pulse time-modulated signals, comprising an enclosing envelope having an electron emitter, electron collector means surrounding said emitter, a plurality of demodulation electrode members surrounding said emitter each demodulation member also acting as a beam focussing electrode, a control electrode located between said emitter and said demodulation electrode members, means to bias said members with respect to said cathode to form the electrons into a substantially focussed beam on said members, means to apply phased displaced alternating voltages to said members to cause the beam to rotate synchronously around said emitter, each of said members having at least one electron permeable window for allowing the electron beam to pass therethrough to a corresponding one of said collector means, each window being located in the path of the focussed beam and having a configuration which produces a variable intercept area with the beam as it rotates past said window, and means to apply received time modulation pulses to said control grid to produce at said collector electrodes a current which is a function of the rate of the beam rotation and the timing of the received modulated signals applied to said control grid.

2,533,406

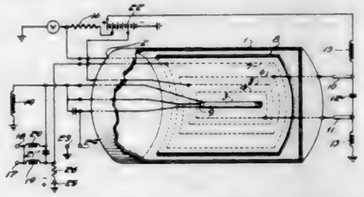
MODULATABLE FREQUENCY OSCILLATION TUBE ARRANGEMENT

Albert M. Skellett, Madison, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware

Application January 28, 1948, Serial No. 4,892

14 Claims. (Cl. 332—7)

1. Electron tube apparatus for generating oscillations of a controllable frequency, comprising an evacuated envelope containing a cathode, an anode, and a pair of cooperating electrodes for generating ultra-high-frequency oscillations by feedback action therebetween, one of said pair of electrodes having potentials induced therein by reason of electrons passing it, a negatively biased grid between said pair of electrodes and said anode, and means to vary the negative bias on said grid to vary the electron transit time of the electrons reaching the second of said pair of



electrodes in correlation with the periodicity of said generated oscillations and thereby to vary the frequency of the generated oscillations.

2,533,407

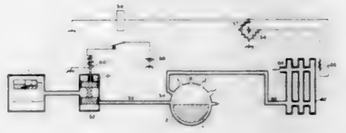
HEATING AND COOLING SYSTEM

Thomas Samuel Skillman, Mosman, near Sydney, New South Wales, Australia, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company of New South Wales, Australia

Application November 9, 1946, Serial No. 709,044

In Australia December 4, 1945

2 Claims. (Cl. 257—159)



1. Apparatus for air-conditioning rooms and the like, comprising: radiation means having an effective area for absorbing heat radiation; air contact means having an effective cross section area for air passing over heat absorbing surfaces; means for adjusting the effective temperature of said radiation means, and means for adjusting the effective area thereof for absorbing heat radiation; means for adjusting the effective temperature of said air contact means, and means for adjusting said effective cross section area, each of said four adjusting means being adjustable independently of the others, said air contact area adjusting means comprising a valve chamber having an inlet and a plurality of outlets, opened in sequence by a rotatable valve element, within said chamber, and means connecting said outlets respectively to independent sections of said air contact means.

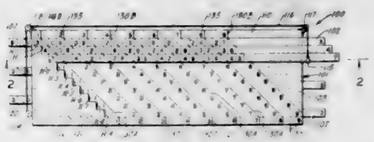
2,533,408

MULTIPLYING APPARATUS

Wilbur Allro Steward, Omaha, Nebr.

Application November 4, 1947, Serial No. 783,907

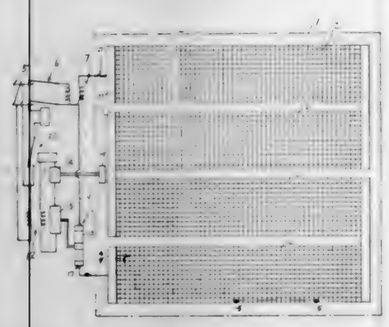
1 Claim. (Cl. 235—69)



In a multiplying apparatus operating according to the broad principle of Napier's rods, a plu-

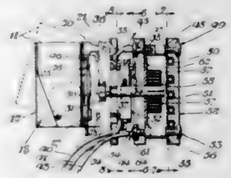
rality of elongated rods allocated to the respective significant digits and zero and each having an elongated side surface and having transverse lines extended across said side surface at equal intervals throughout a substantial portion of the length of said side surface to divide said side surface into a series of spaces each having a predetermined dimension longitudinally of said surface, every third one of said spaces constituting a separating space and having an angular guide line extended diagonally thereacross from one upper corner thereof to the opposite lower corner thereof, and the other spaces constituting partial product receiving spaces, all of said other spaces except one being arranged in pairs and being allocated in succession to the successive digits from 1 to 9, the spaces of such pairs constituting left and right hand spaces adapted to respectively receive the left and right digits of a partial product, each such divided side surface having the figures of the partial products of the digit to which the rod is allocated times the several digits from 1 to 9 formed thereon in said pairs of spaces in accordance with the digit to which such spaces are allocated and having said figures disposed in a line such that the bases of such figures are adjacent and parallel to the lower edge of the side surface on which they are formed, and the right and left hand digits of such figures being disposed in the related right and left hand spaces in each instance.

2,533,409
ELECTRICAL HEATING SYSTEM
Reuben S. Tice, Monterey, Calif.
Application January 28, 1947, Serial No. 724,825
5 Claims. (Cl. 219—19)



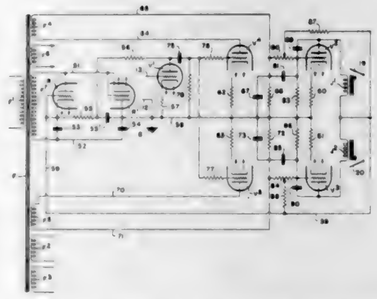
1. A floor heating system comprising a wood subfloor and a wooden floor thereover, parallel electrical conductors having a total resistance of substantially .0005 ohm per foot arranged substantially coplanar between said floor and said subfloor and parallel therewith, a terminal at the ends of said conductors electrically connecting the corresponding ends thereof, a source of relatively high voltage electricity and a step-down transformer between said terminals and said source for supplying a relatively low voltage total current of substantially 10 watts per square foot of floor to said conductors, a sound insulation between said conductors and said floor and a heat insulation between said subfloor and said conductors, said sound insulation and said heat insulation being in direct engagement with the conductors therebetween and said subfloor and the floor above said conductors being in direct engagement with said heat insulation and said sound insulation respectively.

2,533,410
TIMING DEVICE
Victor Trad, Deal, N. J.
Application March 13, 1947, Serial No. 734,525
9 Claims. (Cl. 161—1)



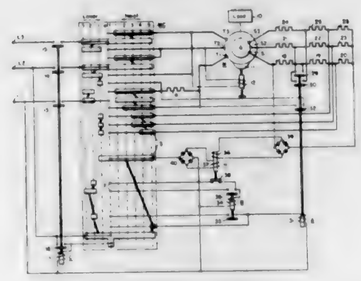
1. In a timing device for electrical appliances, a heating element, means comprising a switch to activate the said element, means comprising a bi-metallic strip, a shaft attached thereto and a cammed arm held by the said shaft to control the period of said activation and means comprising a second switch in parallel with the first switch, and a stud held by the said shaft and adapted to close the said switch to prolong the operation of the said appliance for the duration of the heating cycle.

2,533,411
ELECTRIC PROPORTIONING CONTROL APPARATUS WITH RESET
William H. Wannamaker, Jr., Flourtown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application December 12, 1945, Serial No. 634,556. Divided and this application December 24, 1947, Serial No. 793,678
5 Claims. (Cl. 175—335)



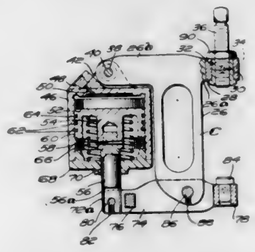
1. Control apparatus comprising in combination, a relay actuating triode valve having an anode, a cathode and a control grid, and having an output circuit including said anode and cathode and an input circuit including said cathode and grid, means responsive to a change in a controlling condition for impressing a direct current signal on the input circuit of said valve, said signal having an extraneous alterating current ripple component of appreciable magnitude, an inductive relay winding connected to the output circuit of said triode, means to supply substantially ripple-free direct current to the output circuit of said triode, and means for minimizing hum in the operation of said triode and associated relay winding due to said alternating current signal component comprising a condenser connected between the anode and control grid of said triode.

2,533,412
ALTERNATING-CURRENT HOIST CONTROL
William R. Wickerham, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 24, 1949, Serial No. 95,024
7 Claims. (Cl. 318—229)



7. In a motor control system according to claim 1, said motor having a secondary resistance circuit, a speed-limit relay connected with said circuit to respond to a given voltage obtaining in said circuit near synchronous motor speed, a contact means under control by said relay and connected across said resistance means when said control means is in said other control condition for shorting said resistance means when said relay responds to said voltage, locking means connected with said contact means and connected with said control means and said speed-limit relay for locking said contact means to maintain said resistance means shorted after response of said speed-limit relay as long as said control means remains in said other control conditions.

2,533,413
FLUID PRESSURE ACTUATED C-CLAMP
James Howard Williams, Lincoln, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware
Application May 27, 1946, Serial No. 672,643
1 Claim. (Cl. 144—304)



A pressure actuated C-clamp having a T-shaped piece with one portion of the head of the piece extending on one side of the leg of the piece a greater distance than does the other portion of the head, the said shorter portion constituting a fixed jaw with an adjusting screw threaded therethrough for engaging the work to be clamped, the said longer portion having an axle pin therethrough with its axis at right angles to the head and leg axes of the T-shaped piece, and the said leg having near its end remote from the head a second axle pin therethrough with its axis parallel to that of the first mentioned axle pin; a lever mounted on the second mentioned axle pin having its longitudinal axis in the plane defined by the head and leg axes of the T-shaped piece, the said lever having a short arm on one side of said second mentioned axle pin with a bearing stud mounted thereon opposite the said adjusting screw to clamp the work between them, the longer arm of the lever having a third axle pin with its axis parallel to that of the first mentioned axle pin; pressure actuated means pivotally mounted on and between the first and third mentioned axle pins, the said pressure actuated means comprising a cylinder with its head end engaging the first mentioned axle pin; a piston in said cylinder; a piston rod connected to said piston and extending through the bottom end of the cylinder to the said third axle pin whereby when fluid pressure is imposed on one side of the piston head force is transmitted through the piston rod and lever to apply a clamping hold on the work; and a coiled spring in the cylinder between the other side of the piston head and the bottom of the cylinder for moving the cylinder reversely when the said fluid pressure on the piston is released, whereby the clamping hold on the work is released.

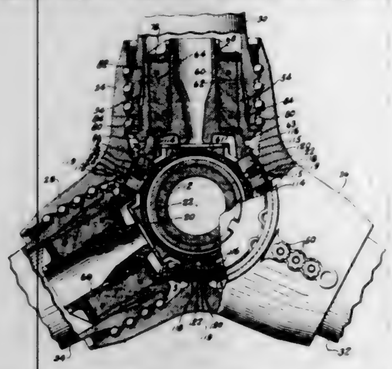
2,533,414
FASTENING DEVICE
Victor F. Zahodiakin, Short Hills, N. J.
Application May 29, 1945, Serial No. 596,553
9 Claims. (Cl. 24—221)

1. A fastening device for juxtaposed members, comprising a socket structure constructed and arranged to receive a rotatable stud for interlocking therewith and separable therefrom, said socket structure comprising separable bridge sections both of which provide longitudinal margins at the side edges of and longitudinally of said sections, and both said sections having stud-receiving apertures entirely between said margins and side edges, and means at said side edges and margins connecting said sections slidable longitudinally with respect to each other and retaining said sections against displacement with respect to each other laterally.

2,533,415
VARIABLE PITCH PROPELLER
John E. Anderson, Portland, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application February 4, 1943, Serial No. 474,638
12 Claims. (Cl. 170—160.33)

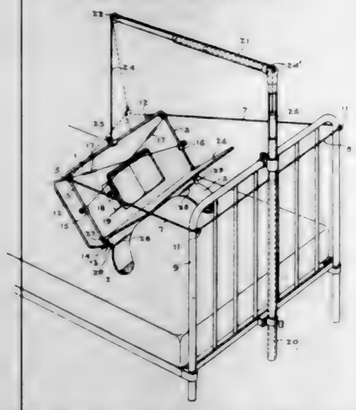
1. In a controllable-pitch propeller, a hub having a plurality of blade receiving sockets, a blade in each socket, an anti-friction bearing retaining each blade in its socket against outwardly directed forces, a fluid motor in the socket-received end of each blade, a pair of diametrically opposed lugs on each motor, wedge members, and

means for forcing said wedge members between adjacent lugs of adjacent motors, for supporting



said motors and said blades against inwardly directed forces.

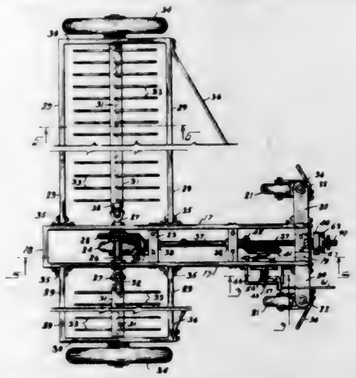
2,533,416
ADJUSTABLE READING AND WRITING TABLE FOR FURNITURE
Lawrence L. Anthes, Toronto, Ontario, Canada
Application November 12, 1946, Serial No. 709,236
In Canada November 16, 1945
6 Claims. (Cl. 311—26)



1. A table adapted to be used with an article of furniture, comprising a board having legs extending downwardly at either side, a tubular frame embracing the side and top edges of said board, fittings rotatably mounted on the side members of said frame adjacent to the top and bottom ends thereof, and frames secured to said rotatable fittings and extending substantially parallel with said frame sides.

2,533,417
ARTICULATED POWER-OPERATED HAY RAKE
Robert A. Barnes, Spicer, Colo.
Application November 29, 1946, Serial No. 712,755
9 Claims. (Cl. 56—27)

1. A power operated hay rake comprising, an elongated center frame, a shaft mounted on the frame for rotation about a transverse axis, a shaft mounted on the frame for rotation on an axis extending lengthwise thereof, means for transmitting rotary motion from the latter shaft to the former, elongated rake frames extending laterally from opposite sides of the center frame, and connected with the sides thereof for rocking movement about longitudinally extending pivots, a caster wheel connected with the center frame for supporting the same, a rake bar extending longitudinally of each rake frame, said bars being rotatably supported at their outer ends by the rake frames, a universal connection

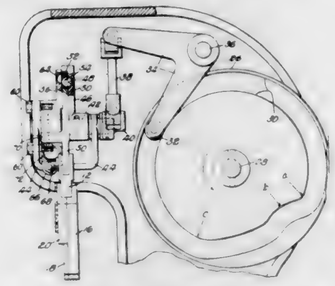


between the ends of the transverse shaft and the inner ends of the rake bars, S-shaped tines secured to the rake bars, an escapement mechanism connected with the longitudinally extending shaft for limiting successive rotations of the rake bars to 180 degrees, a tractor having a power take-off shaft, means for connecting the front end of the center frame to the tractor, comprising a universal coupling, a clutch positioned between the front end of the elongated shaft and the power take-off shaft, and means for controlling the escapement and the clutch.

2,533,418
METHOD OF ATTACHING A LEADER TO A HOOK
Dona J. Benoit, Pawtucket, R. I.
Application April 28, 1948, Serial No. 23,660
1 Claim. (Cl. 43—44.83)

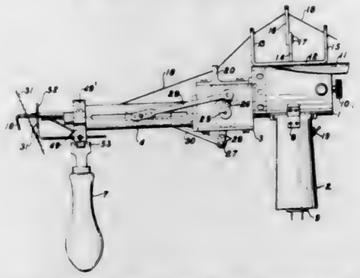
The method of making and attaching a leader to a fishhook which consists in braiding a length of tubular braid leader, then positioning the shank of the hook within the braid tightly braiding the leader onto the shank of the hook for a substantial length thereon, reversing the direction of the braiding to enclose and extend the leader beyond the previously braided portion a desired length.

2,533,419
DRIVER ACTUATING MECHANISM FOR FASTENING INSERTING MACHINES
Benjamin B. Blanchard, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 22, 1947, Serial No. 787,591
6 Claims. (Cl. 1—29)



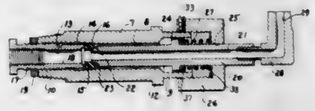
1. In a fastening inserting machine having a frame, a power operated cam rotatably mounted in the frame, an arm to which a high speed motion is imparted by the cam, a fastening inserting driver, a driver operating lever, a ball movably supported in the lever, a socket in the arm adapted to be engaged by the ball to lock the lever to the arm, and a socket in the frame opposite which latter socket the ball is located when the driver is at the end of its operative stroke and into which the ball is adapted to slip to disconnect the lever from the arm and to connect the lever with the frame.

2,533,420
TUFTING MACHINE
Joseph Blumfield, Los Angeles, Calif.
Application November 24, 1947, Serial No. 787,746
2 Claims. (Cl. 112—80)



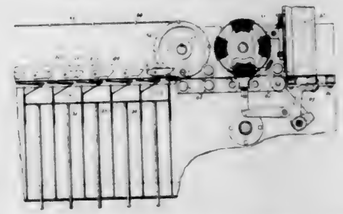
1. In a machine for making yarn loops in fabrics in order to form a piled rug and the like, the machine having an electric motor with a shaft extending therefrom and a gear reduction means connected with the motor where the shaft extends, the gear reduction means having a worm gear mounted upon a cross shaft, a worm keyed to the motor shaft and in mesh with the worm gear, said cross shaft extending on either side of the worm gear and each end thereof having a crank keyed thereto, a hollow cantilever beam extending from the gear reduction means, a pair of telescoping plungers within the cantilever beam, a needle guide at the distal end of the cantilever beam and a pair of reciprocable needle stems mounted therein and extending forwardly from the distal end of the cantilever beam, means connecting each needle stem to its respective aforementioned plunger, and rod means connecting each plunger to one of said cranks, said cranks being set substantially 180 degrees apart so that the plungers reciprocate in opposite directions.

2,533,421
ROTATABLE STEAM JOINT
Joseph Bodnar, Detroit, Mich., assignor to William Sutherland and George DiPaola, both of Detroit, Mich.
Application January 21, 1949, Serial No. 71,849
7 Claims. (Cl. 285—97.6)



1. A joint of the class described, comprising a tubular body having a tapered bore formed adjacent one end and communicating with a bore continuing the tapered bore and of substantially the same inside diameter as the small end of the tapered bore; a seat-forming washer positioned in said tapered portion; a thrust delivery member inserted into said body for delivering a thrust against said washer and forcing the same into the tapered portion; a conduit inserted from the opposite end of said body and engaging at one end with said washer, the engaging end of said conduit having a seat formed thereon, said washer having a recess formed in its face engageable with the seat on said conduit; a spring for normally maintaining said end of said conduit in engagement with said washer; and a nut for engaging said spring and retaining the same in position, said nut being threaded on one end of said body.

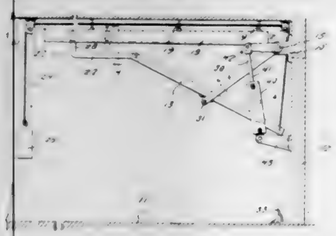
2,533,422
CARD DELIVERY MECHANISM FOR SORTING MACHINES
Karl J. Braun, Glenbrook, Conn., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York
Application October 16, 1948, Serial No. 54,985
6 Claims. (Cl. 271—86)



4. In a sorter, a plurality of pockets, a deflector in each pocket for guiding a card into the same and having a portion forming a support for the cards as they pass over said pocket, means to convey each card toward one of said pockets with the surfaces of the card parallel to the direction of movement thereof, said conveying means

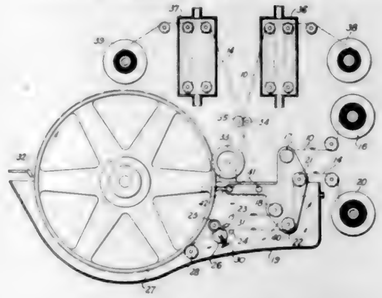
including elements engageable with the rear edge of the card as it is being moved over said supporting portion, a closure member for each pocket carried by the deflector of a preceding pocket and combining therewith to form additional support for said cards, pressure members operable to engage with said closure members to open the same and positioned, when so operated, for contact by the leading edge of a card to insure its entry into a pocket with said edge perpendicular to the direction of movement of the card, and means to operate said pressure members.

2,533,423
MECHANISM FOR OPENING AND CLOSING DOORS
Joseph M. Bunch, Ferguson, Mo.
Application June 17, 1947, Serial No. 755,117
2 Claims. (Cl. 268—75)



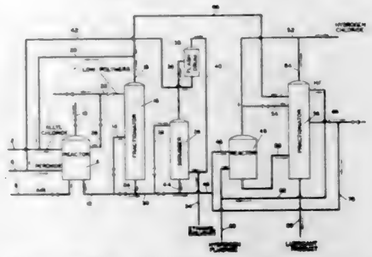
1. The combination with a garage including a ceiling, a front wall provided with a door opening, and a door positioned in face to face relation with respect to the door opening, of a raising and lowering mechanism operatively connected to said door, said mechanism comprising a horizontally disposed track positioned in parallel spaced relation with respect to said ceiling adjacent to said front wall and dependingly supported from said ceiling, a carriage mounted in said track for back and forth movement therealong, a horizontally disposed arm dependingly carried by said carriage and having one end pivotally connected to one end of said door, a horizontally disposed shaft arranged transversely of said track and rotatably supported on the inner face of said front wall adjacent the upper end of the latter, a second arm positioned adjacent one of the sides of said door and having one end pivotally connected to said door intermediate the ends of the latter an having the other end fixedly secured to said shaft, a third arm positioned adjacent the other side of said door and having the other end pivotally connected to said door intermediate the ends of the latter and having the other end fixedly secured to said shaft, a hydraulic cylinder positioned adjacent said door opening and pivotally supported on inner face of said wall, a plunger positioned within said cylinder and mounted therein for back and forth movement, a link having one end pivotally connected to said plunger and having the other end secured to said shaft, a source of fluid pressure operatively connected to said cylinder for causing the up movement of said plunger and simultaneous rotation of said shaft in the direction to effect the raising of said door and for causing the down movement of said plunger and simultaneous rotation of said shaft in the direction to effect the lowering of said door, and a weight movably and dependingly supported from said ceiling and operatively connected to other end of said door for counterbalancing said door.

2,533,424
METHOD AND APPARATUS FOR STRIPPING MULTILAYER FILM
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 13, 1946, Serial No. 683,439
4 Claims. (Cl. 154—37)



1. In a machine for transferring in accurate register an emulsion layer from a perforated multilayer motion picture film to a similarly perforated blank film, an endless carrier having a surface provided with pins for engaging and registering perforations in the films and advancing the films in registered relationship, means for pressing the two films into intimate contact as they approach said carrier, and means for seating the contacting films onto the pins in the surface of said carrier, said seating means comprising a roller having its surface spaced from said pin containing surface by a distance which is greater than the combined thickness of the two films but less than the height of said pins so as to accomplish said seating.

2,533,425
POLYMERIZATION OF ALLYL CHLORIDE AND METHOD OF USING THE PRODUCT AS A VALVE LUBRICANT
Paul H. Carnell, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 14, 1946, Serial No. 669,520
6 Claims. (Cl. 251—93)



1. The method of lubricating a plug valve through which liquid hydrocarbons flow, which comprises forcing into the lubricating grooves of the valve a mixture of a viscous tacky hydrocarbon-insoluble polymer of allyl chloride containing combined chlorine and fluorine and which is too viscous for ready passage into said lubricating grooves admixed with sufficient of a less-viscous hydrocarbon-soluble halogen-containing organic material as to produce a free-flowing

mixture, and flowing said liquid hydrocarbons through said valve whereby said added halogen-containing organic material is dissolved and carried away from the valve and said viscous polymer remains in said valve as lubricant.

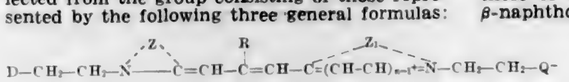
3. The method of preparing a lubricant which comprises partially polymerizing allyl chloride in the presence of from 0.5 to 50 weight per cent benzoyl peroxide and air at a temperature within the range of 0 to 50° C. for a time sufficient to produce a final polymer resistant to the action of aqueous acids, separating unpolymerized allyl chloride from polymer thus produced, further treating the latter in the presence of a polymerizing agent consisting of concentrated hydrogen fluoride to produce a final viscous polymer containing combined chlorine and fluorine, and recovering said final viscous polymer as a product of the process.

2,533,426
PHOTOGRAPHIC EMULSIONS SENSITIZED WITH SUPERSENSITIZING COMBINATIONS OF ACID CARBOCYANINE DYES AND STYRYL BASES
Burt H. Carroll and John Spence, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 13, 1948, Serial No. 54,332
15 Claims. (Cl. 95—7)

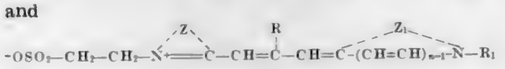
A= Anhydro-5,5'-dichloro-9-ethyl-3,3'-di-β-sulfoethylthiacarbocyanine hydroxide

B= Anhydro-5,5'-dichloro-9-ethyl-3,3'-di-β-sulfoethylthiacarbocyanine hydroxide plus 2-(p-diethylaminostyryl)benzothiazole

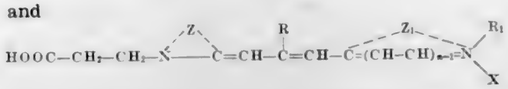
1. A photographic silver halide emulsion sensitized with a supersensitizing combination of at least one sensitizing acid carbocyanine dye selected from the group consisting of those represented by the following three general formulas:



and

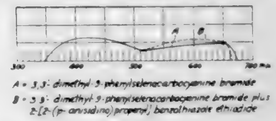


and



wherein D represents a member selected from the group consisting of a carboxyl group and a sulfo group, n represents a positive integer of from 1 to 2, Q^- represents a member selected from the group consisting of —COO^- and —SO_2O^-, R represents a member selected from the group consisting of a hydrogen atom, a methyl group and an ethyl group, R_1 represents a primary alkyl group of the formula C_dH_{2d+1} wherein d represents a positive integer of from 1 to 4, X represents an anion, Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of heterocyclic nuclei of the benzothiazole series and heterocyclic nuclei of the α-naphthothiazole series, and Z_1 represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of heterocyclic nuclei of the benzothiazole series, heterocyclic nuclei of the α-naphthothiazole series, heterocyclic nuclei of the 2-quinoline series and heterocyclic nuclei of the 4-quinoline series, except that Z_1 does not represent the non-metallic atoms necessary to complete a heterocyclic nucleus of the 4-quinoline series when Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus of the α-naphthothiazole series, together with at least one styryl base.

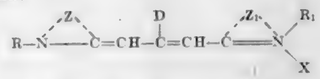
2,533,427
SUPERSENSITIZATION OF MESO-ARYL CARBOCYANINE DYES
Burt H. Carroll, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 13, 1949, Serial No. 104,567
18 Claims. (Cl. 95—7)



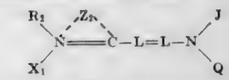
A = 3,3'-dimethyl-9-phenylselenacarbocyanine bromide

B = 3,3'-dimethyl-9-phenylselenacarbocyanine bromide plus 2-[2-(p-anisalino)propenyl]-benzothiazole ethiodide

1. A photographic silver halide emulsion sensitized with a supersensitizing combination of at least one meso-aryl carbocyanine dye selected from those represented by the following general formula:



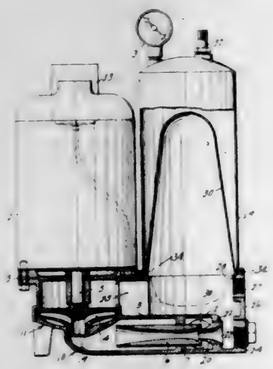
wherein R and R_1 each represents an alkyl group of the formula C_nH_{2n+1} wherein n represents a positive integer from 1 to 4, D represents a monocyclic aryl nucleus of the benzene series, X represents an acid radical, and Z and Z_1 each represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from those of the benzothiazole series, those of the β-naphthothiazole series and those of the benzoselenazole series, and at least one hemicarbocyanine dye selected from those represented by the following general formula:



wherein R_2 represents an alkyl group of the formula C_nH_{2n+1} wherein n represents a positive integer of from 1 to 4, L represents a methenyl group, X_1 represents an acid radical, Z_2 represents the non-metallic atoms necessary to complete an organic heterocyclic nucleus selected from those of the benzothiazole series, those of the benzoxazole series, those of the benzoselenazole series, those of the β-naphthothiazole series and those of the quinoline series, J represents a member selected from the group consisting of

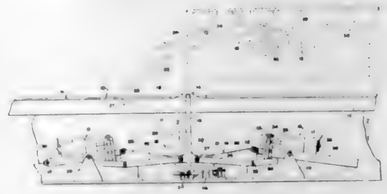
a hydrogen atom and an alkyl group of the formula C_dH_{2d+1} wherein d represents a positive integer from 1 to 2, Q represents a member selected from the group consisting of an alkyl group of the formula C_dH_{2d+1} wherein d represents a positive integer from 1 to 2, and a monocyclic aryl group of the benzene series, and J and Q together represent the non-metallic atoms necessary to complete an organic basic nucleus selected from the group consisting of those of the piperidyl series and those of the morpholinyl series.

2,533,428
PRESSURE WATER SYSTEM
Fred A. Carpenter, Berkeley, Calif.
Application August 28, 1948, Serial No. 46,587
2 Claims. (Cl. 103—5)



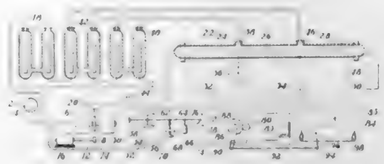
1. A compact pressure water system for household use, comprising; a pump housing; a centrifugal pump mounted in said housing on a vertical axis and having an intake and a discharge; a combined priming and discharge chamber formed in said housing with the top of the chamber in a plane above said centrifugal pump and extending over the pump and with the pump discharging thereinto, and having a high pressure outlet located in a plane entirely above the level of the top of said pump to maintain a priming head in said combined priming and discharge chamber; a motor for driving said pump and mounted on said housing; and a pressure tank having a supply of compressed air and being of relatively small volume substantially equivalent to the volume of the motor and mounted on said housing in close proximity to said motor for minimum space requirements; said tank being open at the bottom and having a peripheral flange at the lower end, and an opening of substantially equal area to said open bottom and formed in the top of said housing for unrestricted communication between said tank and said discharge chamber, and a flexible diaphragm peripherally secured between said housing and said peripheral flange and expansible into said tank under pressure of water delivered by said centrifugal pump, and collapsible into said combined priming and discharge chamber as water is drawn off through said high pressure outlet; and a pressure switch controlled by the existent pressure in said combined priming and discharge chamber for starting said motor when said pressure drops to a predetermined value, and stopping said motor when the pressure has increased to a second predetermined value, for maintaining continuous flow under pressure when said high pressure outlet is open.

2,533,429
WING FOLD MECHANISM
Joseph D. Carpenter, Ottumwa, Iowa
Application December 9, 1949, Serial No. 132,012
4 Claims. (Cl. 74—469)



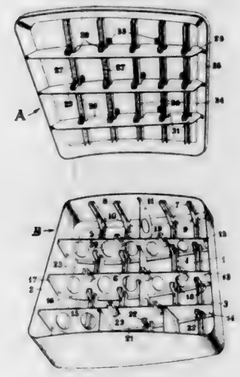
1. Folding mechanism comprising a pendent link swingably mounted on the hinge pin of a pair of hingedly connected members foldable from an aligned to an overlying extended position, a pair of levers hinged on the respective members swingable from an outwardly extending position relative to each other in the aligned position of said members to an inwardly extending confronting position relative to each other in the overlying position of the members, connecting links pivoted between each of said pair of levers and said pendent link, and an extensible actuating member in each of the members connected to the respective levers for swinging the members to the extended aligned position and folded overlying position.

2,533,430
METHOD AND APPARATUS FOR ANALYZING FLUE GAS
Sherman Chase, Evergreen Park, Ill., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application January 13, 1945, Serial No. 572,715
8 Claims. (Cl. 23—232)



1. The method of analyzing flue gas for the presence of free oxygen or a combustible therein which comprises sampling the flue gas at a constant temperature and at a constant flow rate, adding hydrogen to the flue gas sample at a constant flow rate, passing the resultant gas mixture at a constant flow rate to an analyzing zone, burning the hydrogen with any free oxygen in the flue gas in said zone, adding oxygen to the residual flue gas sample at a constant flow rate, burning any combustible in the residual sample with the added oxygen in said zone, and determining whether the original flue gas sample contains free oxygen or a combustible in response to the heat developed by the combustion of the gas.

2,533,431
TANK FOR AIRPLANES AND SIMILAR APPLICATIONS
Gaston Chausson, Asnieres, France, assignor to Societe Anonyme des Usines Chausson, Asnieres, France, a company of France
Application November 30, 1945, Serial No. 631,894
In France November 7, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 7, 1964
2 Claims. (Cl. 220—22)



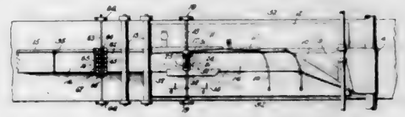
2. A tank for airplanes and other vehicles comprising a pair of complementary dished sections adapted to be fitted one upon the other to form a closed tank assembly, a plurality of parallel partition forming plates fixed in each of said sections to substantially overlie each other respectively to cooperatively form substantially continuous partitions when said sections are assembled, openings in said partitions to permit communication between the areas on the opposite sides of said partitions, a plurality of stiffening elements fixed to each section and extending transversely of said partitions and through said openings, and means for connecting said sections in a rigid assembly and to provide a fluid-tight joint therebetween, the partition plates of the two sections being slightly offset relative to each other when assembled, said connecting means including a plurality of box-like members secured to the free edge portions of the partition plates of one of said sections to be positioned beside the corresponding partition plates of the other section, a threaded nut supported by each of said box-like elements, a plurality of sleeves fixed to and extending inwardly of said other section to respectively register with said threaded nuts, and a bolt insertable through each of said sleeves for cooperation with the respective nut to retain said sections in registry and form a fluid-tight tank.

2,533,432
HOSE REEL
Don A. Clark, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application August 28, 1946, Serial No. 693,531
8 Claims. (Cl. 242—86)

6. A hose reel including a rotatable spindle, a pair of reel ends mounted on said spindle for rotation therewith, at least one of said reel ends being slidable axially on said spindle, a plurality of rods supported on said reel ends in circular array around said spindle, an arcuate segment supported on each of said rods to provide a substantially continuous cylindrical drum, and spring means on said rods exteriorly of either of

said reel ends and cooperating with said rods for yieldingly urging said reel ends toward the arcuate edges of said segments.

2,533,433
WEB FORMER AND CUTTER FOR SATCHEL BOTTOM PAPER BAGS
Converse V. Clark, Toledo, Ohio, assignor to The Chase Bag Company, New York, N. Y.
Application June 8, 1945, Serial No. 598,303
3 Claims. (Cl. 93—19)



1. In a power driven machine for making satchel bottom flat bags from a web of bag material fed through said machine from a continuous source of supply, located at the front of the machine, to the delivery end thereof, a substantially flat apertured bed plate on the machine, an extension plate mounted above the rear end of and spaced from the top of the bed plate, a forming iron spaced above said bed plate for forming said web into a flattened tube folded about said forming iron and said extension plate, said forming iron including a tube forming guide portion and a substantially flat tube flattening portion, the front end of said extension plate being connected to the rear end of said forming iron so as to form a part thereof, a cut off knife for transversely cutting said flattened tube into bag lengths, the extension plate being formed with an opening and a pair of slits at each side of said opening, upper and lower vertically spaced rotatable horizontal shafts extending transversely of said machine adjacent said cut off knife, one shaft above and the other below the extension plate, a thumb notch cutter and a pair of spaced slitter cutters on one of said shafts and a second pair of spaced slitter cutters on the other of said shafts, said shafts being operable simultaneously whereby said notch cutter and said first pair of slitter cutters and said second pair of slitter cutters will be moved in an arcuate path into contact respectively with the top and bottom folds of said tube whereby a transverse thumb notch will be cut in one fold and a pair of longitudinal slits will be cut in each of said folds adjacent the line of cutting of said cut-off knife.

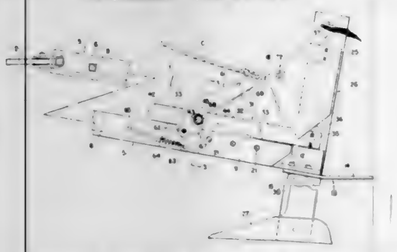
2,533,434
HAIR CURLER
Richard T. Clifton, Detroit, Mich.
Application April 14, 1947, Serial No. 741,349
1 Claim. (Cl. 132—43)

A curler of the class described, comprising: a base; a pair of arms carried by said base project-

ing upwardly therefrom on opposite sides thereof, each of said arms being bent inwardly to overlie, in parallel relation, a portion of said base and each of said arms being bent outwardly from said base, outwardly from the center thereof and angularly to said base, said arms converging to meet at a point centrally of said base, and each of said arms being extended outwardly from the point of converging, the angularly turned portion of said

arms providing a core for a lock of hair wound thereon to provide a curl, and the outwardly projecting ends of said arms being bendable outwardly from each other and downwardly toward said base for clamping the curl on said core and said base, the faces of said arms being engaged by the hair being curved in cross-sections at the central portion thereof with the convex side thereof engaging the hair.

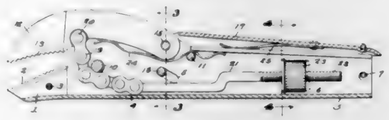
2,533,435
SUBSOILER
Curtiss L. Cook and Austin E. Young, Syracuse, N. Y., assignors to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y., a corporation of New York
Application December 6, 1945, Serial No. 633,064
10 Claims. (Cl. 97—78)



1. A subsoil plow comprising a generally fore and aft extending beam including a pair of members connected together at their front ends and spaced apart at their rear ends, a pair of brackets extending upwardly from said beam and fixed at their lower portions to the rear portions of said members in laterally spaced apart relation, a subsoil tool including a shank extending generally upwardly between said brackets and pivoted to the latter at its upper end, an abutment fixed to said beam members in a position forward of said shank, a latch member comprising a pair of straps pivoted to said shank and disposed on opposite sides of the latter, said strap members extending along opposite sides of said abutment member and forwardly thereof and having a part carried between said strap members and adapted to engage said abutment member, and a release lever pivoted to said beam and disposed between said strap members.

2,533,436
SELF-LOCKING WRENCH
John S. Collison, Campbell, Nebr., assignor to Roland B. Collison, Bruning, Nebr.
Application May 29, 1946, Serial No. 673,108
1 Claim. (Cl. 81—84)

A wrench comprising a longitudinally channeled body; a handle and a stationary jaw rigid with the body at its opposite ends; a stem mounted in the handle for adjustment longitudinally thereof; a yoke straddling said handle; a handle lever rigid with and projecting from the yoke; a pivot pin connecting the yoke and the body, there being a pair of smooth-walled slots in the body, said pin being freely slidable in said slots; a movable jaw; an arm rigid with and extending from the movable jaw; a pivot pin connecting said arm, yoke, and body, there being a second pair of smooth-walled slots, shorter than the first named pair, in which said second named pin is freely slidable; a chain connected at opposite ends to the arm and stem respectively, the connection between the arm and chain being disposed between the movable jaw and said pivot pins, the longer slots extending approximately radially of said connection between the arm and

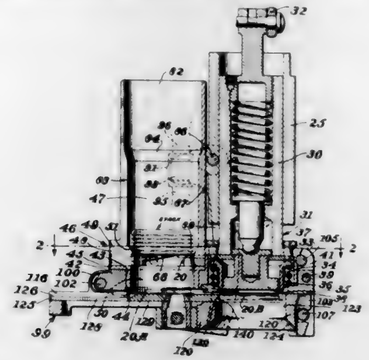


chain and the shorter slots extending along an arcuate path having said connection between the arm and chain as its approximate center; means in the body and engaged by said chain for holding the ends of the chain out of line, said chain and stem constituting means for effecting preliminary adjustment of the movable jaw on the work in the direction of the stationary jaw, the arm pivoting on the second named pivot pin during said preliminary adjustment, said handle lever when pressed toward the handle of the body pivoting on the first named pivot pin for part of its travel until the second named pivot pin reaches the end of the shorter pair of slots to engage the jaws tightly with the work, said handle lever pivoting on the second named pivot pin during the rest of its travel until the first named pivot pin reaches the ends of the pair of longer slots to lock the jaws on the work.

2,533,437
CONTAINER CLOSING APPARATUS
Stanley W. Dennis and Edgar Henschen, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application July 1, 1947, Serial No. 758,250
5 Claims. (Cl. 226—88.1)

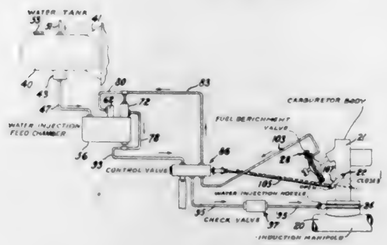
1. An apparatus for applying closures of the type having flanges vertically spaced apart when arranged in a stack, said apparatus including a head comprising a vertical magazine for receiving a stack of closures and a vertical capping throat horizontally spaced from the magazine, guide means extending between the lower ends of said magazine and throat, a slide reciprocatable in said guide means between retracted and advanced positions, said slide comprising a rear portion spaced below the bottom of the stack for receiving and supporting a single closure when the slide is in advanced position, a pair of spaced parallel forward extensions having surfaces at a lower level than said rear portion adapted to support a closure through its flange, means for transferring the closure supported upon said rear portion to said extensions as the slide is retracted, for advance with the extensions to a position below said throat, and means spaced above said slide at the lower end

of the magazine for supporting the stack and for delivering the lowermost closure to the rear portion of the slide upon each advancing movement thereof, the last mentioned means comprising a reciprocating element connected to the slide for movement therewith, said element having a flange-supporting surface at one level and an-



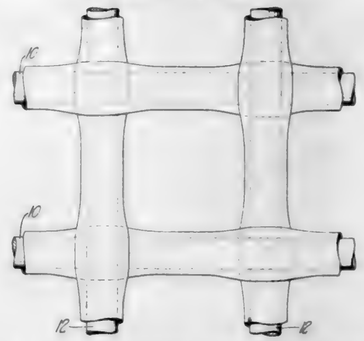
other flange-supporting surface at a level spaced thereabove a distance substantially equal to the spacing of the flanges in the stack, whereby, as the element is advanced with the slide, the lower supporting surface is removed, the lowermost cap is dropped and the upper supporting surface is moved into stack supporting relation.

2,533,438
HUMIDIFYING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
James A. Dunham, Los Angeles, Calif.
Application June 9, 1947, Serial No. 753,514
10 Claims. (Cl. 123—25)



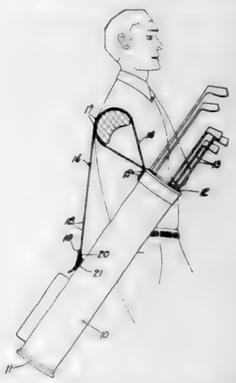
1. In humidifying apparatus for internal combustion engines, a valve housing adapted for connection with a carburetor and having a chamber at its outer end closing a diaphragm, a valve stem having one end fixed to the diaphragm and slidable in said housing, said stem having a valve needle movable within a passage in the carburetor for controlling the passage of fuel therethrough, a spring yieldingly urging said diaphragm toward one side of said chamber and the stem to retracted position, a conduit connected to one wall of said chamber whereby to create a vacuum in the chamber to move the diaphragm in opposition to said spring and said needle valve to passage obstructing position, and an abutment on said stem for adjustably limiting the stroke of said stem.

2,533,439
METHOD OF MAKING COATED WIRE SCREEN CLOTH
Flint C. Elder, Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 12, 1945, Serial No. 634,497
1 Claim. (Cl. 28—73)



In a method of making open-mesh wire-screen cloth, the steps including coating metal screen wire about .011 inch in diameter with a film of organic thermoplastic resin about .002 inch thick, forming warp sheds thereof, interweaving therewith a weft of said wire and, after the weft wire has been fed between the sheds, beating it into the fell of the resulting cloth under pressure sufficient partially to displace the films on the warp and weft wires adjacent their intersections and form mutually interlocking depressions in the contacting surfaces thereof.

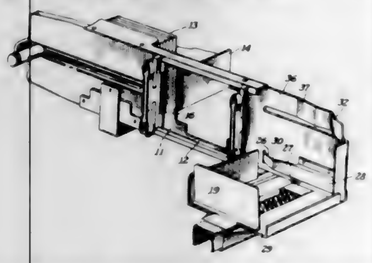
2,533,440
CARRYING MEANS FOR GOLF BAGS
Charles H. Endee, Canton, Mass.
Application April 24, 1946, Serial No. 664,663
2 Claims. (Cl. 150—1.5)



1. Carrying means for a golf bag of the type comprising an elongated hollow receptacle having its bottom end closed and its top end open and adapted to receive and hold golf clubs therein, including a flexible strap having ends to be connected to the top of the golf bag and forming a closed loop adapted to pass around the shoulder of the person carrying said golf bag, whereby said bag is held supported from the shoulder, and a

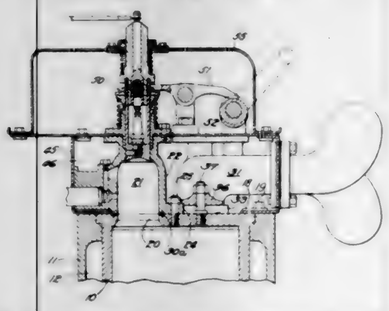
second strap connected to said first strap at its shoulder engaging portion, and to be connected to the golf bag adjacent its mid-portion, whereby said golf bag is held tilted at a predetermined angle of inclination.

2,533,441
SLIDE CHANGING DEVICE
Cameron B. Estes, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 2, 1948, Serial No. 18,579
4 Claims. (Cl. 88—28)



1. In a slide changing device, the combination with an apertured plate, a take-up magazine secured to one end of said plate to receive slides after projection, means slidably mounted on said plate for moving slides out of projecting position and into said magazine, a guide positioned in said magazine to engage incoming slides to deflect the latter out of the plane of said moving means, of a stationary member carried by said magazine and positioned beyond said guide to be engaged by the upper portion only of the leading edge of a deflected slide being fed into said magazine by said moving means to tip said slide into an inclined position in said magazine, said member cooperating with said guide to retain said slides in an inclined relation in said magazine.

2,533,442
CYLINDER HEAD STRUCTURE FOR INTERNAL-COMBUSTION ENGINES
William V. Falcon, Revere, Mass.
Application June 15, 1948, Serial No. 33,164
1 Claim. (Cl. 123—41.84)



In an internal combustion engine a cylinder block, a removable cylinder liner inserted in and bolted to said block, said cylinder liner having a top wall and holes in said wall, a removable combustion chamber casing bolted over one of said holes and to said top wall, separately removable intake passage and exhaust passage casings, each respectively bolted over one of the remaining holes in said top wall, and a removable built up sheet metal water jacket comprising several parts bolted together and over said liner and surrounding all of said casings.

2,533,443
COMPUTING DEVICE
William Farbman, New York, N. Y.
Application April 5, 1947, Serial No. 739,676
8 Claims. (Cl. 235—74)

1. A computing device comprising a support, a series of planar, numbered wheels respectively representing units, tens, hundreds and so forth, rotatably mounted on said support, each of said wheels being arranged in overlapping relationship with adjacent wheels, a driving arm integrally formed on each of said wheels and laterally extending therefrom and in substantially the same plane thereof and so as to overlap adjacent wheels, each of said wheels having struck-out teeth formed on the surfaces thereof and so as to be engaged by the driving arm of a preceding wheel, said teeth and driving arms being arranged to prevent engagement of the teeth of one wheel by the driving arm of a rotating succeeding wheel, said struck-out teeth forming externally accessible surface openings in said wheels whereby said wheels may be driven through primary actuation utilizing said openings.

2,533,444
BATHING CAP
John E. Feldman, Garfield, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 20, 1948, Serial No. 39,663
4 Claims. (Cl. 2—68)

1. A waterproof bathing cap having a head enclosing portion and a head embracing elastic sealing band, said band having near its edge but in spaced relation thereto a series of convolutions that form hollow ribs disposed approximately at right angles to said edge, and a row of ribs extending transversely of said hollow ribs at some distance from the ends of the hollow ribs and at the inner face of the band to restrict the straightening out of the convolutions, whereby when the cap is worn and the band is stretched about the head its edge will be under greater tension than the convolutions and will therefore pull inwardly against the skin of the wearer in water-sealing contact therewith.

2,533,445
POULTRY EVISCERATING TOOL
Lawrence Finney, Georgetown, Ill.
Application June 2, 1947, Serial No. 751,919
3 Claims. (Cl. 17—11)

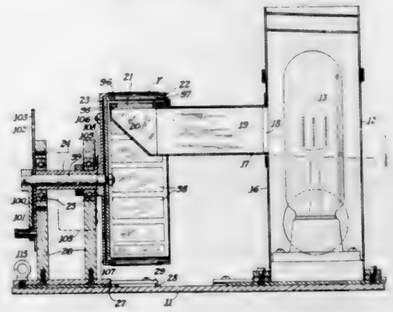
1. An eviscerating tool comprising a flat plate with arcuate ends and having a centrally disposed back with laterally disposed spaced teeth extended outwardly therefrom, one of the arcuate ends of the plate having a beveled cutting

edge, and an off-set handle extended upwardly and rearwardly from the end of the plate opposite to the end having the cutting edge thereon.

2,533,446
LIFE BELT HAVING A COMPRESSED GAS INFLATION CYLINDER
Felix R. Fisher, Streatham Hill, England
Application July 7, 1948, Serial No. 37,364
In Great Britain July 17, 1947
6 Claims. (Cl. 9—19)

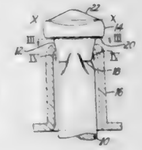
6. In combination with a life-belt having flexible walls and adapted to be inflated by gas under pressure from a charging cylinder disposed within the life-belt and having a closure at one end which is adapted to be opened to permit the escape of gas into the life-belt, a member upon which the charging cylinder is supported, means carried by said supporting member adapted to be actuated to open said closure, an actuating member pivoted to said supporting member for actuating said last-named means, an attaching unit for securing said actuating member in an opening formed in one of the flexible walls of the life-belt, said unit including a sleeve clamped to said wall and in which said actuating member is disposed, a sealing member between said sleeve and said actuating member, a collar on said sleeve rotatable to clamp the sealing member between said sleeve and said actuating member, said actuating member having a portion extending through said collar and relative to which the collar can rotate, an arm pivoted to said portion for limited swinging movement, and means for locking said actuating member in a fixed position within said sleeve, said means comprising a pin extending transversely through an opening in said extending portion of said actuating member and through aligned opposed openings in said collar.

2,533,447
CONTINUOUS CONTROL PRINTER
Harold L. Fitch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application August 15, 1946, Serial No. 690,658
14 Claims. (Cl. 95—75)



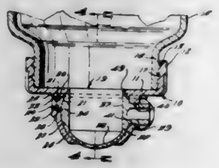
1. In a photographic printing apparatus, the combination of a support, a carriage slidably mounted on said support, a drum freely rotatable and detachably mounted on said carriage, said drum having a peripheral flange formed with an exposure aperture extending part way thereof, a light modulating member of a length less than the circumference of said flange and secured to the latter over said aperture, means for moving a web of sensitized material at a constant speed over said drum and in overlying and contacting relation with said member to rotate said drum as a unit with said web, a small printing aperture arranged in registry with said exposure aperture and positioned below and adjacent said flange so that said member will pass thereover, a calibrated light supplied to said printing aperture to print repeatedly exact duplicate images of said member on said web and means for sliding said carriage on said support to move said apertures out of registry.

2,533,448
MANDREL FOR BLIND RIVETING
Arthur Walter Forman and Walter Redvers Thirdborough, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 7, 1949, Serial No. 103,378
In Great Britain September 11, 1948
2 Claims. (Cl. 85—40)



1. A two-part rivet comprised of a tubular member of ductile material and a less ductile mandril in telescopic relation, the mandril having a smooth cone-shaped upsetting head outside the tubular member and larger than the bore thereof, the upsetting head of said mandril being oval in sections perpendicular to the latter and the thickness, measured lengthwise of the mandril, being less along the sides of said head than at its ends.

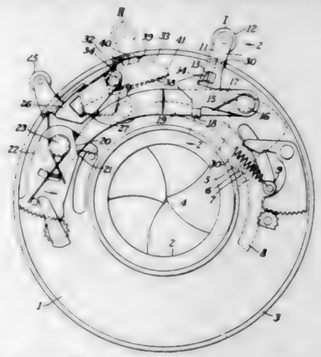
2,533,449
COFFEE METERING DEVICE
Keith E. Fraser, Detroit, Mich.
Application July 25, 1947, Serial No. 763,479
1 Claim. (Cl. 222—364)



A device for dispensing finely-divided material, comprising a cap adapted to be fastened to a container for the material and including a base having an opening therethrough, the wall surface adjacent the opening being an annular spherical segment with its outer edge lying approximately on a plane passing through the center of the sphere and its inner edge defining said opening, a one-piece molded cup and trunnion element having an external spherical surface fitting said annular spherical surface and having a radially extending trunnion, said cup element having a cylindrical recess extending into the cup element from one side, the axis of the cylinder being at right angles to the axis of the trunnion and extending through the center of the cup element sphere, the diameter of said cylindrical recess being approximately equal to the diameter of the inner edge of the annular spherical segment of the cap, a retaining member secured to the cap member and having an opening therein, the wall surface of the retaining member adjacent said opening being an annular spherical segment fitting said cup element with its inner edge lying approximately on said plane and its outer edge defining said opening in the retaining member, said opening in the retaining member being of less diameter than the diameter of said cylindrical recess in said cup member, the annular spherical segments on the cap member and retaining member having notches which receive and journal said trunnion, and a handle mounted on said trunnion for rotating said cup.

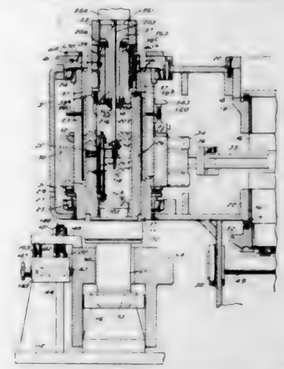
2,533,450
IMPACT LATCH TO PREVENT REBOUND IN CAMERA SHUTTER LEAVES
Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 20, 1949, Serial No. 133,985
5 Claims. (Cl. 95—63)

1. A shutter leaf rebound prevention device for camera shutters of the type including an apertured casing, a blade pivotally mounted to move from an operative position over the aperture to an inoperative position away from the aperture, a master member having a protuberance and releasably engaged by a release lever, a spring for driving the master member in one direction, operable connections between the master member and the shutter blade for moving the latter by the former, the combination with said master member, of a protuberance carried thereby through an arcuate path from a rest to a set position, said rebound prevention device comprising a pivoted lever adjacent the arcuate path of the protuberance in its rest position, an impact shoulder normally lying in the path of the protuberance, and a latching shoulder normally lying out of the path of the protuberance but movable to a latching position by the protuberance striking the impact shoulder and a spring normally



tending to move the latching shoulder from the path of the protuberance.

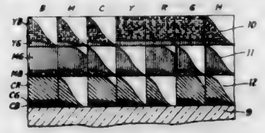
2,533,451
TAPPING MACHINE
Albert S. Ginsburg, Chicago, Ill., assignor to La Salle Designing Company, Chicago, Ill., a partnership
Application April 27, 1945, Serial No. 590,560
28 Claims. (Cl. 10—129)



1. A machine tool comprising a spindle, reciprocating means connected to said spindle for rocking said spindle thru a limited arc, a cutting tool mounted on said spindle, clamping means for rigidly supporting a workpiece in cooperative relationship to said cutting tool, hydraulic actuated wedging means for advancing said cutting tool radially outwardly with respect to said spindle, and solenoid means for operating said last mentioned means at the beginning of each cycle of rocking movement of the spindle.

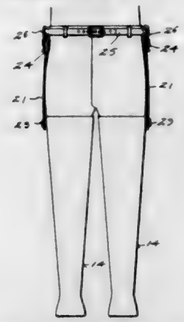
2,533,452
PHOTOGRAPHIC BRIGHTNESS CORRECTION MASK
Paul K. Glasoe and David Dean, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 18, 1947, Serial No. 755,518
7 Claims. (Cl. 95—2)

1. The method of forming a brightness correction mask for a photographic color film having colored images composed of subtractive dye images some of said colored images of which appear of different brightness than other colored images and one of said dye images having in a colored image area of said color film a scale of gamma different than the scale of said one dye image in a neutral exposure scale area of said color film, which comprises exposing through said color film a photographic element sensitive to the visible spectrum with light of wave length primarily absorbed by a dye image of said color film common



to said colored images of different brightness, forming a silver image in the area of said exposure, subjecting said photographic element to a second exposure through said color film and said silver image with light of wave length transmitted by said brighter images, and forming a colored image in the region of said second exposure of a color substantially the same as said first-mentioned dye image, and thereafter removing said silver image.

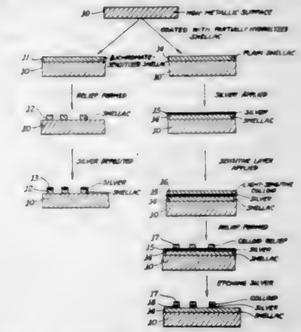
2,533,453
RUBBER-COATED STOCKING-FOOT BOOT
Gordon W. Gottschalk, Iron Mountain, Mich.
Application April 11, 1947, Serial No. 740,851
1 Claim. (Cl. 36—10)



In a waterproof foot and leg covering of the character described, a fabric, stocking-like body portion including a foot and leg portion, said leg portion being of a length to encase the leg to above the knee, and a latex composition intimately combined therewith and penetrating said fabric body and forming a relatively thin layer on the inner side thereof and a thicker layer on the outer side, said covering being relatively thin and flexible throughout and being adapted to fit snugly over the foot and ankle and to be worn with the foot portion thereof within a shoe.

2,533,454
METHOD OF PLATING NONMETALLIC SURFACES
Donald Charles Gresham, Wealdstone, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 8, 1945, Serial No. 615,244
In Great Britain October 4, 1944
3 Claims. (Cl. 95—5.6)

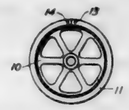
1. The method of forming a design or image in silver on a non-metallic surface, which comprises uniformly coating said surface with partially hydrolysed shellac having a softening point of 90° C. to 95° C. and an acid value of 60, and forming silver in image form on said shellac by reducing a solution of silver nitrate to metallic silver in contact with said shellac.



2,533,455
PROCESS FOR PREPARING LINEAR CONDENSATION POLYMERS FROM BIS-DIAZODIKETO ALKANES
Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 10, 1947, Serial No. 773,296
4 Claims. (Cl. 260—65)

1. A process for preparing a linear condensation polymer comprising condensing a bisdiazodiketoalkane with a compound selected from the group consisting of di-primary amines and hydroxy primary amines.

2,533,456
LAGGING FOR USE ON BELT PULLEYS
William H. Harrison, York, Pa.
Application September 20, 1946, Serial No. 698,160
4 Claims. (Cl. 74—230.7)

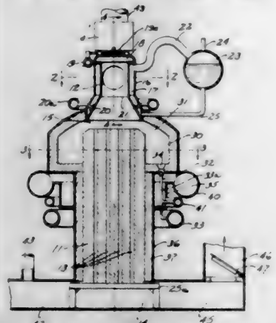


1. A lagging for pulleys and the like comprising a band of material having the characteristics of rubber and of less length than the circumferential surface of the pulley whereby when applied to the pulley the band is under elastic tension, and connecting means for the ends of the band disposed entirely within the radial confines thereof and disposed in slots in the ends of the band whereby the ends of the band may be brought into abutting relation.

2,533,457
FURNACE WITH JET COOLING
Rudolph Leonard Hasche, Johnson City, Tenn., assignor to Tennessee Eastman Corporation, Kingsport, Tenn., a corporation of Virginia
Application December 8, 1945, Serial No. 633,845
2 Claims. (Cl. 23—277)

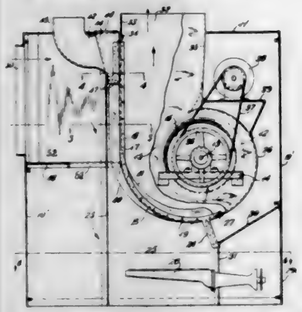
1. A regenerative furnace comprising an outer shell enclosing an enlongated upright regenera-

tive mass having passageways extending lengthwise therethrough, a chamber surrounding one end of said regenerative mass forming a substantially annular combustion space about the end portion of said regenerative mass, a plurality of burners opening into said annular combustion space, an annular throat constituting a communication between said annular combustion space and a space adjacent said end of said mass into which said passageways open, a heat exchanger in proximity to said last mentioned



space, said heat exchanger including spaced nozzles positioned to project a fluid heat exchange medium directly into said last mentioned space, a second chamber providing a primary space in direct communication with said passageways at the opposite end of said regenerative mass, an inlet communicating with said second chamber for admitting gas to be treated during a treating cycle and an outlet communicating with said second chamber for the escape of products of combustion during a heating cycle.

2,533,458
FORCED AIR FURNACE HAVING SCROLL TYPE HEAT EXCHANGER
Frank R. Higley, Cleveland Heights, Ohio, assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Substituted for abandoned application Serial No. 428,206, January 26, 1942. This application filed February 8, 1946, Serial No. 646,241
2 Claims. (Cl. 126—110)



1. In a heater including a blower of the volute type, a burner, a cast scroll wall extending over and then straight upwardly away from the burner, a cast flue connection attached to and extending from the outer face of the upper end of said scroll wall, side plate means extending from the top to the bottom of said heater, connected to said scroll wall to form sides of a combustion chamber for said burner in the lower part of said heater, and extending rearwardly beyond said scroll wall in the direction of said flue connection, and back plate means extending between said side plate means, from the bottom of the heater to the cast flue connection, to form the back of said combustion chamber and a flue passage leading upwardly therefrom to said flue connection.

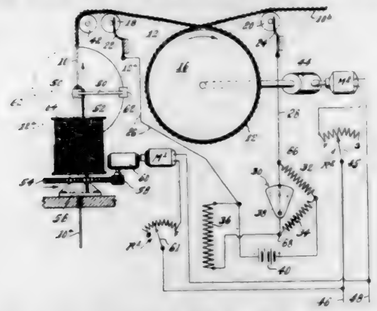
2,533,459
FLAG HOLDER
Clarence E. Holliday, Duncan, Nebr.
Application February 10, 1949, Serial No. 75,702
4 Claims. (Cl. 116—173)

1. A flag holder comprising a lower cylindrical housing having an internally threaded nipple at its lower end, a plug threaded in said nipple, an upper cylindrical housing detachably secured to the upper end of said lower housing, a shaft journaled for rotation in said housings and having upper and lower end portions, reduced projections extending from the end portions of said shaft, said plug having a recess receiving the projection extending from the lower end portion of said shaft, a closure plate at the upper end of the upper housing, said closure plate having a central aperture receiving the projection extending from the upper end portion of said shaft, a tube embracing the lower end portion of said shaft and rotatable with the shaft, a coil spring embracing the tube and terminally secured to the tube and to the lower housing so that when the shaft is rotated in one direction the spring will be in tension, an elongated flexible element fixed at one end to the upper portion of the shaft, said upper housing having an opening for receiving the flexible element, means carried by the plug for supporting the housings in an upright position, and means for locking the shaft in a selected rotated position.

2,533,460
MANUFACTURE OF ELECTRIC CABLES
Alfred J. Huck, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application June 25, 1949, Serial No. 101,406
11 Claims. (Cl. 57—6)

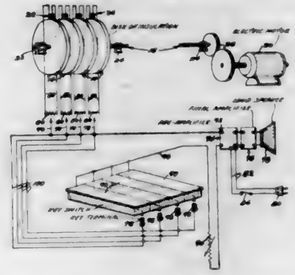
1. Apparatus for manufacturing electric cable having substantially constant resistance in any measured length thereof comprising a first means

for propelling a core for the cable, a second means for winding a resistance wire on said core, at least one of said means being variable, resistance measuring means for the resistance between two points



of the wire wound on the core, and means for changing said variable means in the proper direction and in proportional relation to the deviation of said resistance measuring means from a desired value.

2,533,461
ELECTRONIC MUSICAL INSTRUMENT
Graydon F. Ilisley, Omaha, Nebr.
Application August 28, 1948, Serial No. 46,627
6 Claims. (Cl. 84—1.28)

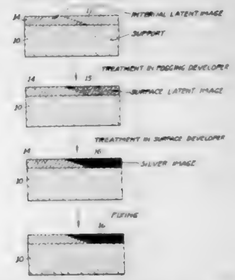


1. A musical instrument comprising: a plurality of elongated circular approximately continuous magnetizable elements, said elements each having a different note recorded by magnetism thereon, said elements each being long enough to accommodate the tone of one note; non-magnetizable supports for said elements; means for rotating said supports and elements; magnetic pick-up heads for each element, said heads being held sufficiently close to said elements to be energized thereby; a rheostat for each of said heads, said rheostats each having its resistance element electrically connected between the terminals of a different one of said heads; an amplifier, the sliding contact member of each rheostat being disposed in electrical communication with an ingoing terminal of said amplifier; a plurality of switch keys, each of said contact members also being connected with a terminal of a different one of said switch keys; another rheostat, the other terminal of each switch key being connected to a terminal of the resistance element of said other rheostat, the sliding contact member terminal of said other rheostat being connected to the other intake terminal of said amplifier; and a movable foot pedal operably secured to the sliding contact member of said other rheostat for simultaneous movements therewith.

2,533,462
ELECTRODE ASSEMBLY
Maxwell Ingram, New York, N. Y., assignor to Pilot Marine Corporation, New York, N. Y., a corporation of New Jersey
Application May 15, 1946, Serial No. 670,003
11 Claims. (Cl. 175—183)

1. An electrode assembly adapted to be inserted into a system containing an electrolytic solution comprising, a plurality of spaced electrodes adapted to be inserted into the system so that said solution may flow therebetween, and a temperature-compensating resistor of solid material having the same temperature-resistance characteristic as said solution mounted within one of said electrodes, said resistor having two contact areas to which electrical connections may be made, and one of said areas being electrically connected and in direct heat-transfer relationship with the electrode in which said resistor is mounted.

2,533,463
TWO-BATH DIRECT POSITIVE PHOTOGRAPHIC PROCESS
Charles E. Ives, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 17, 1947, Serial No. 780,318
4 Claims. (Cl. 95—88)



1. The method of obtaining a direct positive image in a silver halide emulsion layer, which comprises exposing to light rays to which the emulsion is sensitive, a silver halide emulsion layer a test portion of which upon exposure to a light intensity scale for a fixed time between 1/100 and 1 second and development for 3 minutes at 20° C. in the following internal type developer:

	Grams
Hydroquinone	15
Monomethyl-p-aminophenol sulfate	15
Anhydrous sodium sulfite	50
Potassium bromide	10
Sodium hydroxide	25
Sodium thiosulfate	20
Water to 1 liter	

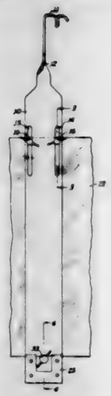
gives a maximum density at least 5 times the maximum density obtained when the equally ex-

posed silver halide emulsion is developed for 4 minutes at 20° C. in the following surface developer (I):

	Grams
p-Hydroxyphenylglycine	10
Sodium carbonate (crystals)	100
Water to 1 liter	

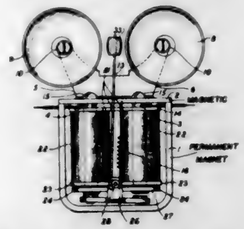
immersing the exposed emulsion layer in a developer selected from the class of (1) an aerial fogging developer with access of oxygen and (2) a primary aromatic amino developing agent solution containing an active methylene coupler compound capable of coupling with the oxidation product of said developing agent to produce a dye image, only long enough to render developable the unexposed silver halide grains but not long enough to develop a visible image, then developing a visible positive silver image in said layer in an active surface-type developer which develops the silver halide grains which are developable by developer (I) and which produces said positive image in a shorter time than if the first developer were used alone.

2,533,464
RACK FOR SUPPORTING FLAT METAL SHEETS IN ELECTROPLATING OPERATIONS
John W. Jasper, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 11, 1948, Serial No. 7,568
1 Claim. (Cl. 204—297)



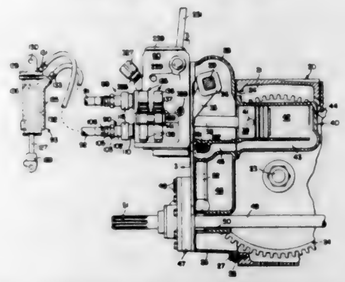
A rack for supporting in electroplating operations flat metal work pieces which have a pair of laterally spaced apertures adjacent the upper end thereof, comprising a rectangular rack body having an integral supporting hook on one end thereof, said rack body having a pair of parallel vertically extending and horizontally spaced slots positioned adjacent the upper end thereof, a separate clamping screw member positioned in each of said slots and adapted to be adjusted longitudinally thereof and to pass through the corresponding aperture in the work piece, a pair of upright U-shaped plate members secured to and spaced apart from the opposite end of said rack body on opposite sides thereof by spacers terminating below the upper edges of said plates to provide a horizontal slot on each side of said rack body each of said horizontal slots being adapted to receive the lower end of a work piece, a third clamping screw member extending through the portion of the rack member located between the respective arms of the U-shaped members and adapted to exert clamping pressure on the rack member and the lower end portion of the work piece resting in the horizontal slot, all of said screw clamping members being adapted to hold cooperatively portions of a flat metal work piece against the plating rack in good electrical contact.

2,533,465
CLAPPER FOR TELEPHONE RINGERS
Reginald T. Jenkins, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1947, Serial No. 788,344
4 Claims. (Cl. 177—7)



4. A striker for a gong comprising a rod having a straight bearing portion at one end thereof, a clapper ball slidably and rotatably supported on the bearing portion of said rod, and means located at each end of the bearing portion of said rod for limiting the extent to which said ball may slide thereon.

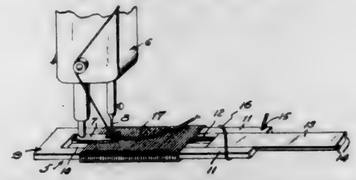
2,533,466
HYDRAULIC MECHANISM
Emil F. Jirsa, Merlin Hansen, and Cecil W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co., a corporation of Iowa
Original application November 5, 1945, Serial No. 626,626. Divided and this application February 12, 1947, Serial No. 728,020
4 Claims. (Cl. 97—50)



2. In a hydraulic system: a casing; means providing a cylindrical, fluid-transmitting bore within the casing that extends axially outwardly and opens at the exterior of the casing to provide an outer port; means within the casing providing first and second, separate fluid-transmitting ducts communicating with the bore at junctions spaced axially apart as respects the axis of the bore, the first duct junction being relatively remote from the outer port of the bore and the second duct junction being relatively closer to said outer port; and means including a coupler having a cylindrical tubular portion axially receivable by and

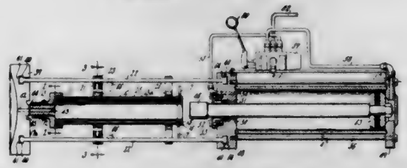
axially removable from the bore from outside the casing, said tubular portion including an annular wall of sufficient axial length to extend into the bore past and in fluid-blocking relation to the second duct junction, and having an inner open end portion communicable through the first duct junction with said first duct, said annular wall being imperforate so as to block said second duct junction irrespective of variations in angular positioning of the tubular portion in said bore, said coupler having an open outer end communicating through the tubular portion with said open inner end.

2,533,467
SEWING-MACHINE ATTACHMENT
Ervin T. Johnson, Huron, S. Dak.
Application April 18, 1947, Serial No. 742,262
5 Claims. (Cl. 112—9)



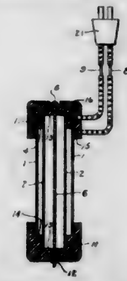
1. In a rug making attachment for sewing machines, an elongated bar provided with a slot extending from one end to adjacent the opposite end thereof and adapted to have yarn or warp wound on the slotted portion of said bar, a slide bar reciprocably disposed in the slot of said first mentioned bar and sized to fill the slot from end to end thereof when fully inserted therein, said first mentioned bar being adapted to be disposed beneath the presser foot of a sewing machine for positioning the sewing machine needle for stitching the wound yarn longitudinally and centrally through the convolutions thereof, both above and beneath said first mentioned bar, and said slide bar being retractable out of said slot ahead of the presser foot and needle to provide means to prevent lateral contraction of the first mentioned bar responsive to the weight of the presser foot on the yarn or warp wound thereon.

2,533,468
INJECTION MOLDING UNIT
Herbert F. Jurgeleit, Oceanside, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 26, 1947, Serial No. 737,317
4 Claims. (Cl. 18—30)



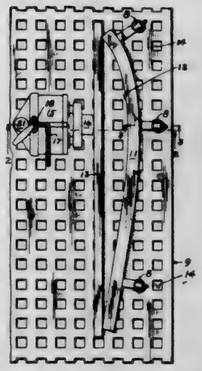
2. A unit for injecting molding compound comprising, in combination, a mold having a cavity, spaced guide bars, a member slidable along said bars, a cylinder carried by said member and adapted to hold a charge of compound, said cylinder being provided with a nozzle, a piston cooperating with the cylinder for compressing the charge to extrude the compound through said nozzle and means for moving the piston into said cylinder to compress the charge and move the member along the lengths of the guide bars whereby the nozzle is positioned adjacent the cavity, said guide bars being detachably fastened directly to said mold.

2,533,469
IMMERSION ELECTRIC HEATER
Eudaldo Muñoz Justiz, Habana, Cuba
Application September 29, 1948, Serial No. 51,699
In Cuba August 4, 1948
1 Claim. (Cl. 219—41)



In an immersion heater, a pair of insulating caps of generally cylindrical shape, each thereof having a top face and a bottom face, each insulating cap having a cylindrical bore extending partially therethrough, a cylindrical inner electrode positioned in said bore, each insulating cap having a second concentric bore extending partially therethrough and forming a shoulder therein and adapted to receive an outer electrode, one of said insulating caps having a radial bore through its side wall positioned intermediate the shoulder and the top face for leading in a conductor to the inner electrode, said latter insulating cap having a second radial bore in its side wall positioned intermediate the shoulder and the lower face for leading in a conductor to the outer electrode, and means for holding the insulating caps against the cylindrical electrodes.

2,533,470
BENDING APPARATUS
Socrates H. Kapelis, El Cerrito, Calif.
Application March 10, 1945, Serial No. 582,073
4 Claims. (Cl. 153—48)



1. In apparatus for bending bars and the like, a work-supporting plate, a free template member

484 OFFICIAL GAZETTE DECEMBER 12, 1950

DECEMBER 12, 1950 U. S. PATENT OFFICE 485

posed silver halide emulsion is developed for 4 minutes at 20° C. in the following surface developer (I):

	Grams
p-Hydroxyphenylglycine	10
Sodium carbonate (crystals)	100
Water to 1 liter	

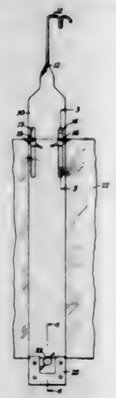
immersing the exposed emulsion layer in a developer selected from the class of (1) an aerial fogging developer with access of oxygen and (2) a primary aromatic amino developing agent solution containing an active methylene coupler compound capable of coupling with the oxidation product of said developing agent to produce a dye image, only long enough to render developable the unexposed silver halide grains but not long enough to develop a visible image, then developing a visible positive silver image in said layer in an active surface-type developer which develops the silver halide grains which are developable by developer (I) and which produces said positive image in a shorter time than if the first developer were used alone.

2,533,464

RACK FOR SUPPORTING FLAT METAL SHEETS IN ELECTROPLATING OPERATIONS

John W. Jasper, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 11, 1948, Serial No. 7,568
1 Claim. (Cl. 204—297)



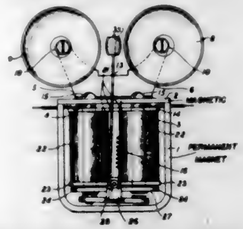
A rack for supporting in electroplating operations flat metal work pieces which have a pair of laterally spaced apertures adjacent the upper end thereof, comprising a rectangular rack body having an integral supporting hook on one end thereof, said rack body having a pair of parallel vertically extending and horizontally spaced slots positioned adjacent the upper end thereof, a separate clamping screw member positioned in each of said slots and adapted to be adjusted longitudinally thereof and to pass through the corresponding aperture in the work piece, a pair of upright U-shaped plate members secured to and spaced apart from the opposite end of said rack body on opposite sides thereof by spacers terminating below the upper edges of said plates to provide a horizontal slot on each side of said rack body each of said horizontal slots being adapted to receive the lower end of a work piece, a third clamping screw member extending through the portion of the rack member located between the respective arms of the U-shaped members and adapted to exert clamping pressure on the rack member and the lower end portion of the work piece resting in the horizontal slot, all of said screw clamping members being adapted to hold cooperatively portions of a flat metal work piece against the plating rack in good electrical contact.

2,533,465

CLAPPER FOR TELEPHONE RINGERS

Reginald T. Jenkins, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 28, 1947, Serial No. 788,344
4 Claims. (Cl. 177—7)



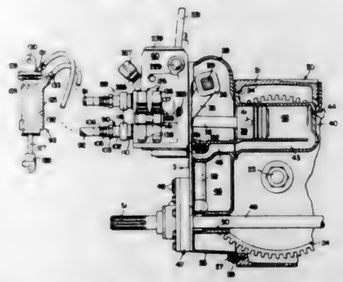
4. A striker for a gong comprising a rod having a straight bearing portion at one end thereof, a clapper ball slidably and rotatably supported on the bearing portion of said rod, and means located at each end of the bearing portion of said rod for limiting the extent to which said ball may slide thereon.

2,533,466

HYDRAULIC MECHANISM

Emil F. Jirsa, Merlin Hansen, and Cecil W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co., a corporation of Iowa

Original application November 5, 1945, Serial No. 626,626. Divided and this application February 12, 1947, Serial No. 728,020
4 Claims. (Cl. 97—50)



2. In a hydraulic system: a casing; means providing a cylindrical, fluid-transmitting bore within the casing that extends axially outwardly and opens at the exterior of the casing to provide an outer port; means within the casing providing first and second, separate fluid-transmitting ducts communicating with the bore at junctions spaced axially apart as respects the axis of the bore, the first duct junction being relatively remote from the outer port of the bore and the second duct junction being relatively closer to said outer port; and means including a coupler having a cylindrical tubular portion axially receivable by and

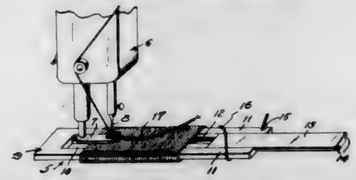
axially removable from the bore from outside the casing, said tubular portion including an annular wall of sufficient axial length to extend into the bore past and in fluid-blocking relation to the second duct junction, and having an inner open end portion communicable through the first duct junction with said first duct, said annular wall being imperforate so as to block said second duct junction irrespective of variations in angular positioning of the tubular portion in said bore, said coupler having an open outer end communicating through the tubular portion with said open inner end.

2,533,467

SEWING-MACHINE ATTACHMENT

Ervin T. Johnson, Huron, S. Dak.

Application April 18, 1947, Serial No. 742,262
5 Claims. (Cl. 112—9)



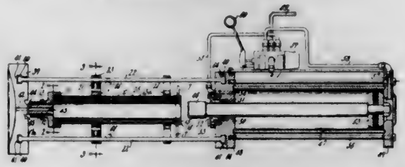
1. In a rug making attachment for sewing machines, an elongated bar provided with a slot extending from one end to adjacent the opposite end thereof and adapted to have yarn or warp wound on the slotted portion of said bar, a slide bar reciprocably disposed in the slot of said first mentioned bar and sized to fill the slot from end to end thereof when fully inserted therein, said first mentioned bar being adapted to be disposed beneath the presser foot of a sewing machine for positioning the sewing machine needle for stitching the wound yarn longitudinally and centrally through the convolutions thereof, both above and beneath said first mentioned bar, and said slide bar being retractable out of said slot ahead of the presser foot and needle to provide means to prevent lateral contraction of the first mentioned bar responsive to the weight of the presser foot on the yarn or warp wound thereon.

2,533,468

INJECTION MOLDING UNIT

Herbert F. Jurgeleit, Oceanside, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application March 26, 1947, Serial No. 737,317
4 Claims. (Cl. 18—30)



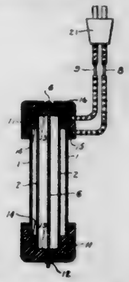
2. A unit for injecting molding compound comprising, in combination, a mold having a cavity, spaced guide bars, a member slidable along said bars, a cylinder carried by said member and adapted to hold a charge of compound, said cylinder being provided with a nozzle, a piston cooperating with the cylinder for compressing the charge to extrude the compound through said nozzle and means for moving the piston into said cylinder to compress the charge and move the member along the lengths of the guide bars whereby the nozzle is positioned adjacent the cavity, said guide bars being detachably fastened directly to said mold.

2,533,469

IMMERSION ELECTRIC HEATER

Eudaldo Muñoz Justiz, Habana, Cuba

Application September 29, 1948, Serial No. 51,699
In Cuba August 4, 1948
1 Claim. (Cl. 219—41)



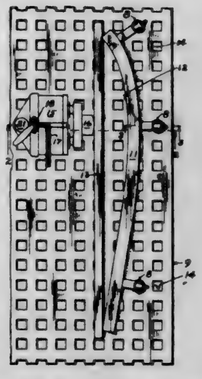
In an immersion heater, a pair of insulating caps of generally cylindrical shape, each thereof having a top face and a bottom face, each insulating cap having a cylindrical bore extending partially therethrough, a cylindrical inner electrode positioned in said bore, each insulating cap having a second concentric bore extending partially therethrough and forming a shoulder therein and adapted to receive an outer electrode, one of said insulating caps having a radial bore through its side wall positioned intermediate the shoulder and the top face for leading in a conductor to the inner electrode, said latter insulating cap having a second radial bore in its side wall positioned intermediate the shoulder and the lower face for leading in a conductor to the outer electrode, and means for holding the insulating caps against the cylindrical electrodes.

2,533,470

BENDING APPARATUS

Socrates H. Kapelis, El Cerrito, Calif.

Application March 10, 1945, Serial No. 582,073
4 Claims. (Cl. 153—48)



1. In apparatus for bending bars and the like, a work-supporting plate, a free template member

resting upon the plate, a pin extending upwardly from the plate in fixed position thereon adjacent the template member, and a head member hingedly mounted on said pin for swinging adjustment above the plate about an axis parallel to the plate and providing an upright bearing face for backing engagement with the template during the bending of a bar or the like against the template, said axis of adjustment of the head member being above the template.

2,533,471

PECTIN JELLY COMPOSITIONS

Charles W. Kaufman, Tenafly, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 18, 1946, Serial No. 655,368

10 Claims. (Cl. 99—132)

1. A pectin jelly composition of the low-sugar type comprising a mixture of two pectinous ingredients, the jellification ingredient consisting of low-equivalent-weight pectin capable of forming a jelly of less than 30% soluble solids, the other pectinous ingredient consisting of a smaller amount of high-equivalent-weight pectin that does not jellify with less than 30% soluble solids, said other ingredients reducing syneresis in the finished jelly.

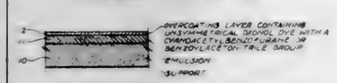
2,533,472

UNSYMMETRICAL OXONOL FILTER AND ANTIHALATION DYES

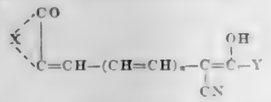
Grafton H. Keyes and Leslie G. S. Brooker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 17, 1947, Serial No. 722,740

5 Claims. (Cl. 95—2)



1. A photographic element comprising a support having thereon at least one sensitive silver halide emulsion layer and a light-absorbing layer containing a dye having the formula:



where X represents the atoms necessary to complete a ring selected from the class consisting of barbituric acid, thiobarbituric acid, pyrazolone, oxindole, indandione and isoxazolone, Y represents a group selected from the class consisting of aryl groups of the benzene series and benzofuran, and n is a digit from 0 to 2.

2,533,473

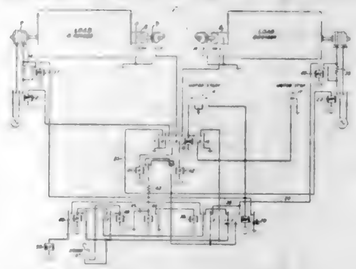
MOTOR SPEED CONTROL SYSTEM

Lindley A. Kille, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 6, 1948, Serial No. 58,635

7 Claims. (Cl. 318—75)

7. In a system employing a pair of motor-driven devices which must operate in synchronism, a source of power, a motor for each said device operated from said source of power, means to hold said motors in synchronous operation comprising means for rendering a first motor definitely slower in operation than a second motor, means for temporarily rendering said second motor slower in operation than said first motor, a set of contacts operated by each said device for closing a circuit during periods when said contacts are in different stages of operation, the said contacts associated with said first motor operating normally later than the said contacts



associated with said second motor, an integration device in said circuit for controlling said means for temporarily slowing said second motor, said integration device having operating and releasing characteristics prearranged to operate when said second motor has reached a given degree of lead over said first motor and to then release when in response thereto said second motor has slowed and has reached a like given degree of lag over said first motor.

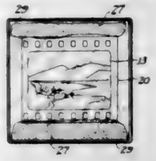
2,533,474

CEMENTED TRANSPARENCY

George J. Koch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 17, 1948, Serial No. 65,907

8 Claims. (Cl. 40—158)



1. A lantern slide comprising, in combination, a light transmitting sheet, a light transmitting coating on one side of said sheet, a transparency having an image positioned on one side thereof and adjacent said coating, light transmitting means for adhering said image side of said transparency to said coating, a flat opaque base having a surface thereof positioned in contact with the opposite side of said transparency and formed with an aperture for framing said image, and cementing means for adhering said coating directly to said surface.

2,533,475

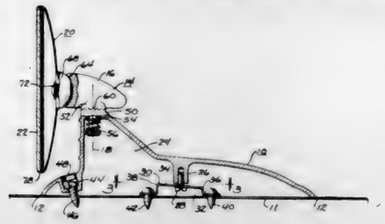
REARVIEW MIRROR FOR MOTOR VEHICLES

Carlton G. Koonter, Fairhaven, Mich., assignor to George C. Knight Company, Oak Park, Mich., a corporation of Michigan

Application June 4, 1949, Serial No. 97,174

5 Claims. (Cl. 248—205)

1. In a rear view mirror, a supporting base adapted to be secured to a side panel of a motor vehicle and having an aperture adjacent one of its ends, a screw threaded into the base, a cam bracket having an aperture to receive the head of the screw and an elongated slot adapted to receive the shank of the screw and communicating with the aperture, means to attach opposite ends of the bracket to the side of a vehicle, the bracket being so proportioned that when the head of said screw in the base is projected



through the aperture in the bracket and the base is shifted longitudinally thereof to move the shank of the screw in the elongated slot of the bracket said base is moved toward the side of the vehicle, and a fastener adapted to project through the aperture adjacent one end of the base and through the side panel of the vehicle to lock the base against longitudinal movement on the bracket.

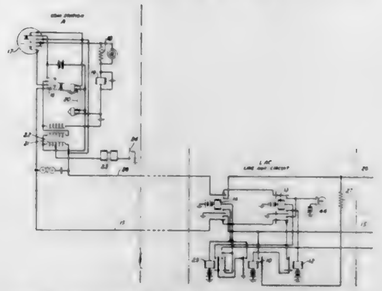
2,533,476

AUTOMATIC TELEPHONE SYSTEMS INVOLVING PREPAYMENT TELEPHONE LINES

Frederick R. Lamberty, Rockville Centre, Arthur S. Martins, New Hyde Park, and Wesley T. Wichman, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 30, 1948, Serial No. 36,024

11 Claims. (Cl. 179—6.3)



1. In a telephone system, a calling line, a called line, a coin box station on said called line, means for completing a telephone communication connection between said lines, a source of coin return potential, and means effective incident to a disconnect on a connection between said lines for connecting said source of coin return potential to said called line.

2,533,477

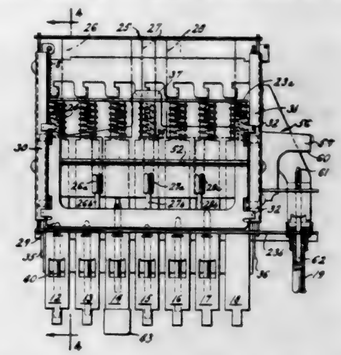
TUNING MECHANISM

Joseph E. Laschenski, Springfield, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application November 4, 1948, Serial No. 58,269

1 Claim. (Cl. 74—10.39)

In a tuning mechanism, housing structure, a pair of carriage members at least the major portion of each of which is mounted within said housing structure, one of said carriage members being adapted to be driven during a tuning operation and the other being actuatable by said one carriage member to position a frequency-determining device, a plurality of selectively actuatable control elements, said elements being mounted for longitudinal reciprocatory movements into and out of driving engagement with said one carriage member to effect movement of the latter to various positions under control of said elements, support means carried by one of said control elements and having a portion extending exteriorly of said housing structure, and adjustable means carried by the said portion, and disposed for driving engagement with said one carriage member, said adjustable means—by virtue of being carried by said portion—being brought into such driving engagement in response to longitudinal movement of the said one control element.



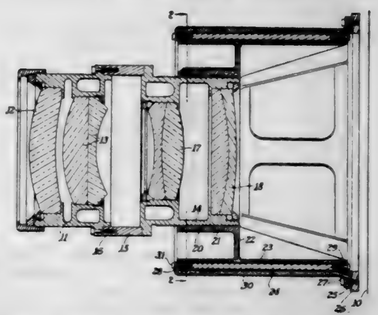
2,533,478

TEMPERATURE COMPENSATING MEANS FOR LENS MOUNTS

Charles M. Lee and Gordon L. Barringer, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 13, 1947, Serial No. 768,352

13 Claims. (Cl. 88—57)



1. In a camera, the combination with a focal plane, a lens tube spaced axially from said plane and having mounted therein a plurality of lens elements which constitute a lens system the focal length of which varies with temperature changes, of means for axially moving said tube to move said elements as a unit to alter the position of

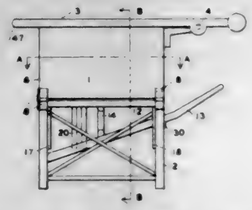
said system relative to said plane to compensate for said variation, said means comprising an axially expansible sleeve, means for anchoring one end of said sleeve to said camera, and means for operatively connecting the other end of said sleeve to said tube so that as the axial dimension of said sleeve varies due to temperature changes the tube will be moved axially to position said system to compensate for the variation in the focal length of said system.

2,533,479

MACHINE FOR MOLDING BUILDING BLOCKS OF CONCRETE OR LIKE CEMENTITIOUS MATERIAL

Robert Leggat, Pretoria, Transvaal, Union of South Africa

Application July 22, 1948, Serial No. 40,136
In the Union of South Africa August 12, 1947
2 Claims. (Cl. 25—41)



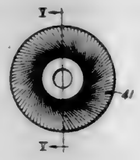
1. A machine for moulding building blocks comprising a moulding box, a frame supporting the box, a base for the box, and a side of the box rigidly fixed to the frame, three sides of the box hinged to the frame, a support below the base, a slotted core and moulding form, mounted on said support and perforating said base, a pallet resting on said base, a lever and linkages lowering said support, a lid for the box hinged to the side of the box fixed to the frame of the machine, and relieving strips facing the moulding forms on the side to which the lid is hinged.

2,533,480

CLUTCH

James E. Leininger and Charles L. Seaton, Burbank, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application April 25, 1945, Serial No. 590,134
2 Claims. (Cl. 192—107)



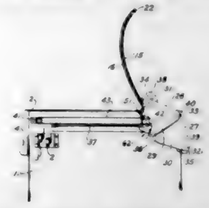
1. A slip type clutch comprising: a pair of axially alined rotary driving and driven elements adapted for relative axial movement into and out of frictional engagement with each other in which both of said elements have cooperating, substantially smooth, ground annular friction surfaces having curved grinding striae extending thereacross in a direction having a radial component, said striae being of such curvature and degree of fineness as to provide substantially maximum sliding friction between said elements.

2,533,481

AUTOMATIC CONTACT PRINTER

Roger P. Leavitt and William M. White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 8, 1947, Serial No. 720,866
17 Claims. (Cl. 95—73)



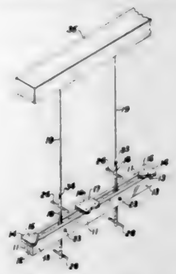
1. In a photographic printing machine having a top formed with a printing aperture, the combination of a curved flexible platen adapted to hold a sensitized sheet over said aperture, means for hingedly connecting one end of said platen to said top, a rolling carriage movable substantially in a plane and into engagement with said platen to flatten the latter into a plane to hold said sheet in position over said aperture, said carriage being movable to an inoperative position and out of contact with said platen, and spring means connected to said platen for moving the latter about said hinge to an elevated position when said carriage is moved to said inoperative position.

2,533,482

TOY SWING

Charles E. Liesner, Detroit, Mich., assignor to Renseil Corporation, Detroit, Mich.

Application March 14, 1947, Serial No. 734,663
4 Claims. (Cl. 155—63)



1. A swing comprising a pair of longitudinally spaced ropes, a pair of spaced horizontally arranged supports secured to each other, a pair of spaced trunnions interposed between said supports and pivotally and supportably mounted therein, and a pair of longitudinally spaced upright levers pivotally connected at their upper ends to the free ends of said ropes, and with their central portions projected down through and secured within the central portions of said trunnions, whereby said levers are pivotally joined to said supports.

2,533,483

ELECTRIC TERMINAL SYSTEM

Michael A. Losquadro, Brooklyn, N. Y., assignor to Antla Products, Hempstead, N. Y.

Application October 24, 1947, Serial No. 781,952
3 Claims. (Cl. 173—324)

1. In combination, a dielectric strip having a series of spaced rectangular apertures there-

through, and a plurality of flat unitary terminal lugs of resilient metal each positioned in one of said apertures and each including a portion standing directly outward an appreciable distance from the surface of said strip, each of said terminal lugs being receptive to soldered connections and being of thickness substantially conformal to the width of the aperture and having a section above and below said aperture of width exceeding the length of the aperture and

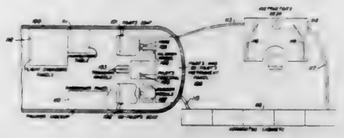
having a section within the aperture of lesser width than said sections above and below, each of said terminal lugs being longitudinally slotted from one end through the section below the aperture and the section within the aperture and therebeyond, and said aperture being of length slightly less than the width of said section of the lug within the aperture whereby said aperture compresses the sides of the lug toward each other and retains said lug snugly seated therein.

2,533,484

TRAINER FOR AIRCRAFT PERSONNEL

Joseph J. Lukacs, New Rochelle, N. Y., and Walter B. Strickler, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 30, 1944, Serial No. 542,846
82 Claims. (Cl. 35—12)



1. In an aircraft trainer wherein the starting of an engine is simulated, an engine ignition simulating key, an engine start simulating key, a timing means for measuring a time interval simulating the time required for an engine starter to start an engine, a starter-on relay responsive to the operation of said start key for initiating the operation of said timing means, a second relay operable at the expiration of the measurement of said time interval if said start key has been held operated for the time requisite to start an engine, an engine start relay responsive to the operation of said ignition key and said second relay, means responsive to the operation of said latter relay to indicate that the simulated engine has started, an instructor's desk and signals at said desk responsive to the operation of said ignition key, said starter-on relay, and said engine start relay for indicating the operation of said apparatus.

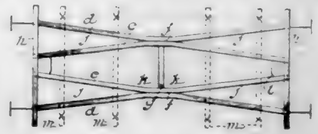
2,533,485

FRAME STRUCTURE FOR VEHICLES

Lionel Lynes, London, England, assignor to Oliver Vaughan Bulleid, Newham, Steyning, England

Application December 31, 1947, Serial No. 795,063
In Great Britain July 17, 1944
7 Claims. (Cl. 105—414)

2. Railway vehicle frame embodying therein rigid end transverse members, a rigid intermediate transverse member, and a set of outer and inner longitudinal members disposed at each side of the frame and attached at their ends to said end transverse members, said longitudinal members of each set being so arranged that the outer longitudinal members are convergent toward the middle, and the inner longitudinal members are divergent toward the middle and so that the



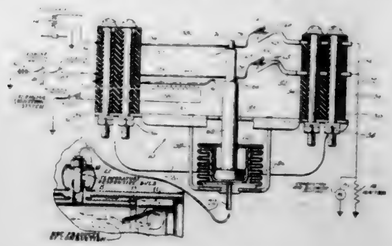
isosceles triangles formed by the inner longitudinal members have a common base in the middle and the truncated isosceles triangles formed by the outer longitudinal members have their bases at respective ends, the said bases being constituted by said rigid end and said intermediate transverse members.

2,533,486

HEATER SYSTEM

William A. Marshall, Jr., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

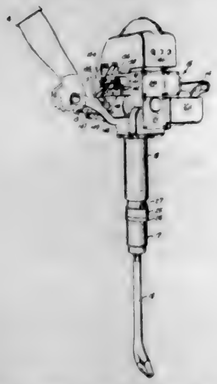
Application March 14, 1947, Serial No. 734,786
6 Claims. (Cl. 123—142.5)



1. A control system for a heater for preheating the cooling fluid of a liquid cooled internal combustion engine having a burner, a gas to liquid heat exchanger, an igniter of the hot wire type for the burner, an electrically driven blower for supplying combustion air to the burner and an electrically operated valve for turning on and off the supply of fuel to the burner, comprising a thermosensitive element responsive to the temperature of said liquid, a pair of electric switches operated by said thermosensitive element arranged so that one of said switches opens as the liquid temperature rises to a predetermined level while the other of said switches opens when the liquid temperature rises to a higher level, the second of said switches being connected in series with the first of said switches, a source of electric power connected by way of the first of said switches and then through the second of said switches to said fuel valve so that said fuel valve is open only when both of said switches are closed, said igniter and said motor for said blower being energized by way of the first switch so that said motor and said igniter operate whenever the first of said switches is closed, a second temperature responsive means adapted when heated for opening the first of said switches independently of the first mentioned temperature responsive means, an electric heating element for heating the second temperature responsive means

when energized, and an electric circuit including said heating element, the last said electric circuit being independent of both of said switches, and a temperature responsive switch in the last said circuit adapted to de-energize said heating element when the burner attains a temperature sufficient to indicate the presence of combustion therein.

2,533,487
GAS HAMMER
Spencer B. Maurer and Howard P. Ebert, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application August 15, 1946, Serial No. 690,654
5 Claims. (Cl. 123—7)

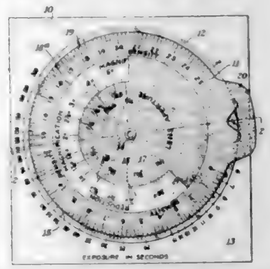


1. In a percussive tool of the type which is powered by an internal combustion engine having a manually operable starter mechanism, a combination comprising a manipulative member, an over-running clutch, gear means connected with the transmission system of the engine, said clutch connected to the gear means for operation in one direction of rotation, one end of the manipulative member connected to the clutch and adapted upon movement in a first direction to impart rotary motion to the clutch to actuate the gear means, and a locking means arranged to engage said manipulative member when the latter is moved a given distance in a direction other than said first direction to lock said manipulative member into position for use as an operative handle.

2,533,488
APPARATUS FOR RETURNING MATRICES TO LINOTYPE MACHINES
Marshall S. Maust, Scottdale, Pa.
Application July 15, 1947, Serial No. 761,139
1 Claim. (Cl. 199—1)

A matrix return chute for delivering matrices onto the teeth of the second elevator bar of a Linotype machine, said chute comprising an elongate body having a bottom and a pair of side walls, a top wall extending between the front end portions of said side walls, and a matrix guide bar mounted in said side wall front portion directly beneath said top wall, said guide bar being recessed a short distance from the forward edges of the side wall and having teeth shaped and positioned in exact conformity with said teeth of said second elevator bar, whereby the front end of said chute can be hooked over said second elevator bar and said guide bar and elevator bar teeth brought into accurate registry for delivering said matrices from the guide bar teeth to those of the elevator bar, said guide bar being rockably mounted and having a wedge shaped and smooth rear portion.

2,533,489
PRINT EXPOSURE COMPUTER
John W. McFarlane and Clyde E. Moses, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 19, 1946, Serial No. 704,514
9 Claims. (Cl. 235—64.7)



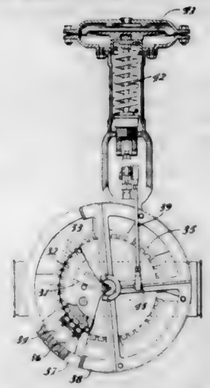
1. A photographic computer comprising a base plate, a pivot secured to said plate, two superposed discs rotatably mounted on the pivot, a circular density scale and a circular exposure scale concentric about said pivot, one of said scales being positioned about the peripheral edge of one of said discs, the other on said base plate in abutting relation with the scale on the disc, two additional circular scales concentric about said pivot, indicating magnification and lens aperture, one of said latter two additional scales being positioned on the other of said discs and the other scale on said base plate, the latter two scales being in abutting relation with each other and being positioned inwardly of the first two scales, and transparent sections in the two discs whereby the scales on the lower disc and base plate will be visible despite the overlying discs.

2,533,490
FUEL GAUGE FOR TRACTORS
Lloyd N. McGrath and Joseph N. McGrath, Detroit, Mich.
Application April 15, 1948, Serial No. 21,178
2 Claims. (Cl. 73—325)

1. A fuel gauge for tractor tanks, the gauge including a transparent, vertical tube provided with a plurality of vertical columns of calibrations on its outer surface, a plug threaded into the tube at its lower end, the plug having an axial aperture therein and being connected to a nipple leading, by means of a pipe, to the lower portion of a tank, a plug threaded into the upper end of the tube and provided with an air vent therein, an oblong casing enclosing the tube, the casing including a front wall and a rear wall, an oblong window in the front wall to frame one column of said calibrations, a window in the rear wall opposite said window in the front wall, a vertical, light-conveying plastic bar placed opposite the window in the rear wall of the casing and extending back of the tube substantially parallel thereto, an electric-light bulb disposed under the bar to illuminate the whole length thereof, the light transmitted by the bar being adapted to

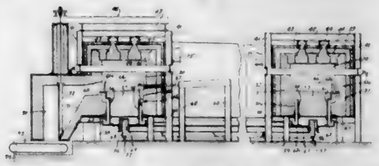
light up the whole length of the tube and a casing enclosing said plastic bar and said light bulb, the above-said tube being adapted to be rotated around its axis to display through the window in said front wall a chosen column of calibrations.

2,533,491
VALVE CONTROL MECHANISM
Jerome B. McMahon, Wilmette, and Thomas A. Abbott, La Grange, Ill., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application January 23, 1947, Serial No. 723,810
2 Claims. (Cl. 137—139)



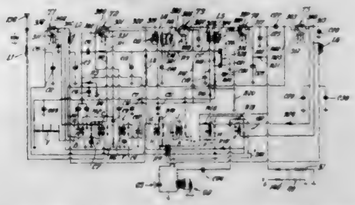
1. Magnetic actuating means for a butterfly valve positioned within a conduit and mounted upon a stem extending through a wall of said conduit and journaled in a housing said actuating means comprising an inner spider secured to said stem, a permanently magnetized rotor carried by said spider and having a plurality of teeth arranged around the periphery thereof, said teeth comprising a first group of pole pieces, an annular sealing diaphragm concentric with and surrounding said pole pieces, said diaphragm being permanently sealed to the housing and defining therewith a sealed zone, an outer spider rotatably mounted coaxially with said stem and said inner spider, a plurality of permanently magnetized teeth mounted on said outer spider and constituting a second group of pole pieces, said first and second groups of pole pieces being arranged concentrically and magnetically coupled, whereby rotation of said outer spider is transmitted to said inner spider.

2,533,492
RADIANTLY HEATED ROTARY CARRIER FOR DESTRUCTIVE DISTILLATION
Lev A. Mekler, Chicago, Ill., assignor to Institute of Gas Technology, Chicago, Ill., a corporation of Illinois
Application March 19, 1947, Serial No. 735,777
4 Claims. (Cl. 202—117)



2. Apparatus for continuously coking organic material comprising spaced concentric circular side walls, a roof and an annular rotatable hearth between said side walls defining in cooperation with said side walls and said roof an annular coking chamber, radial partition walls on said hearth sub-dividing the same into a plurality of sectors, means for intermittently rotating said hearth, pusher means adapted to remove coke formed in said sectors as said sectors are successively and intermittently aligned with said pusher means, and tube means extending through the upper part of said coking chamber adapted to have fuel burned therein to generate heat to be radiated onto organic material deposited on said hearth for coking said material, said tube means being constructed of material characterized by a higher coefficient of expansion than carbonaceous material deposited thereon on cracking of gaseous products of the coking process on contact with said tube means.

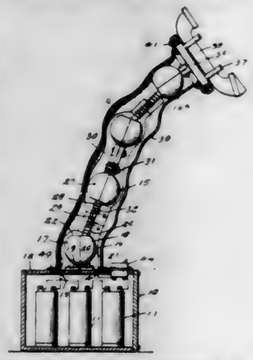
2,533,493
PORTABLE RADIO DEVICE
Donald H. Mitchell, Chicago, Ill., assignor to Motorola, Inc., a corporation of Illinois
Original application February 20, 1942, Serial No. 431,722. Divided and this application May 31, 1946, Serial No. 673,219
3 Claims. (Cl. 250—13)



1. A combined radio transmitting and receiving system comprising, a plurality of electron discharge tubes individually provided with cathodes, circuit means for interconnecting said tubes as a radio transmitting system, electrical means for energizing said cathodes of said tubes to heat the same for providing emission therefrom at a pre-

determined rate, and switching means coupled to said circuit means and to said electrical means for selectively changing the connection between said tubes to provide a radio receiving system, said switching means cooperating with said electrical means for reducing the heating energy supplied to said cathode of at least one of said tubes to thereby reduce the emission from said cathode of said one tube in response to operation of said switching means to condition said system for receiving.

2,533,494
ADJUSTABLE ARTICLE SUPPORT
Iverson O. Mitchell, Jr., Washington, D. C.
Application February 18, 1949, Serial No. 77,252
6 Claims. (Cl. 248—160)

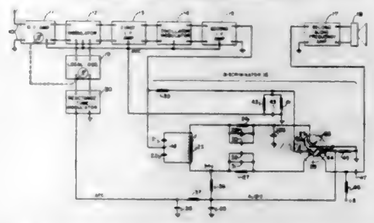


1. An adjustable article support comprising a base, a relatively flexible arm extending from said base, an article holder carried by the extended end of said arm, said arm including electro-magnetic means for effecting rigidity thereof in any adjusted position with respect to said base, and permanent magnet means for releasing said rigidity upon de-energization of said electro-magnetic means.

2,533,495
FISHING LEADER DISPENSER
Ewell Moffett, Palmdale, Calif.
Application March 21, 1949, Serial No. 82,521
2 Claims. (Cl. 242—96)

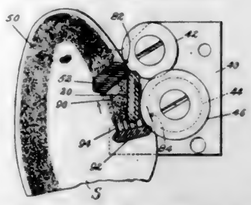
1. A finishing leader dispenser comprising; a spool having a hollow core with intermediate diametric wall, and having a flange at one end and a cover member integral with the other end and functioning as the flange for the other end of the spool and having a circular peripheral gripping edge substantially in alignment with the longitudinal center of the spool with the cover member concavely formed; a second cover member similarly formed and having a hollow hub to fit in the hollow core and including adjusting means cooperative between the hollow core and said hub for relative axial adjustment between the two members to cause the gripping edges of the members to cooperate to grip the terminal end of thread-like material wound on said spool when adjusted in one direction, and to release said terminal end when the members are adjusted in the opposite direction.

2,533,496
LOW-LEVEL BRIDGE DISCRIMINATOR
William Cullen Moore, Chicago, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application April 18, 1946, Serial No. 662,945
5 Claims. (Cl. 250—27)



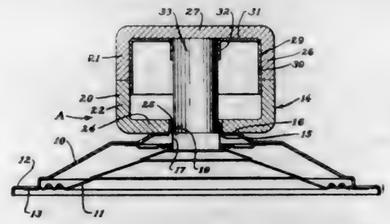
1. In a frequency discriminating network which is adapted to be excited from a voltage source of variable frequency, an input circuit including a pair of capacitors and a two-terminal adjustable inductor connected in series to tune said input circuit to a particular center frequency, means including a bypassed load resistor and a rectifier connected in series bridging one of said capacitors across said source, means including a second bypassed load resistor and a second rectifier connected in series bridging the other of said capacitors across said source, said rectifiers being connected so that the current passed by one is of opposite phase to the current passed by the other and means for unbalancing said network causing current to flow through said series input circuit with the phase of the current flowing depending upon the frequency of said voltage source.

2,533,497
SOLE-MARGIN CEMENTING MACHINE
Laurence H. Mulhern and Nicholas Spugnardi, Auburn, Maine, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 11, 1946, Serial No. 715,430
1 Claim. (Cl. 91—12)



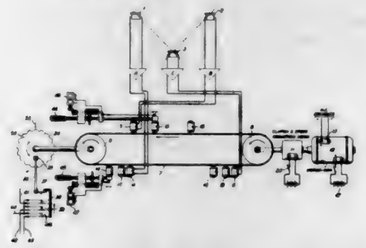
In a sole cementing machine, a gage having contact points spaced a substantial distance from one another, sole-feeding means to present successive portions of the margin of a sole and constructed and arranged to hold the sole against both contact points and successive, supplemental elongated coating nozzles positioned each with one end adjacent to one of the gage contact points and extending away from its gage point to overlie the margin of a sole, said nozzles being arranged to apply cumulative coatings to a band around the sole.

2,533,498
MAGNET SUPPORT FOR RADIO SPEAKERS
Donald G. Munson, St. Paul, Minn.
Application June 19, 1948, Serial No. 33,981
3 Claims. (Cl. 179—119)



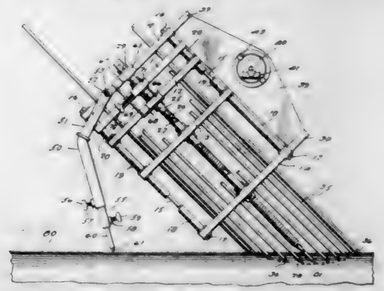
1. A speaker pot including a cup shaped element having a cylindrical outer wall and an integral end closure, said end closure having an axial aperture therein, a magnet supporting element including a cylindrical wall in telescoping relation and frictional contact with the wall of said cup shaped element, a ring like flange on said cylindrical wall, and a sleeve integral with said ring like flange and concentric with said cylindrical wall of said magnet support, and a magnet supported in frictional contact with said sleeve and extending into said aperture.

2,533,499
ACOUSTIC RANGE FINDER
Wilden A. Munson, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 30, 1944, Serial No. 551,831
3 Claims. (Cl. 181—26)



1. In a sound ranging system, a plurality of microphones in spaced relation with respect to a source of sound to be located, a magnetic recording member, a power drive for the member, a plurality of translating magnets spaced along the member for making and reproducing a plurality of recordings of the same sound as picked up by the several microphones, means for moving the member back and forth with respect to said magnets to cause repeated reproduction of corresponding portions of said recordings, means effective during the backward motion of said member for disabling the reproducing channels, means for displacing one of the magnets along the member to effect reproduction simultaneously with the reproduction of the corresponding portion of another recording, means for comparing the reproductions and means for registering the magnet displacement required to produce the simultaneous reproduction whereby the difference in arrival times and hence the location of the sound may be determined.

2,533,500
PIPE LAYOUT TOOL
Opie P. Parsons, Charleston, W. Va.
Application February 21, 1946, Serial No. 649,274
5 Claims. (Cl. 33—175)



3. In a pipe layout tool, the combination with a plurality of rods, mounting means mounting said rods to define a circle, said rods being individually and longitudinally adjustable in said mounting means, and locking means for locking all of said rods in adjusted positions; of a work piece engaging centering pin carried by said first named means axially of said rods, means for adjusting said centering pin longitudinally independently of said rods, levelling means carried by said mounting means, said leveling means including a first level and a second level, said first level being adjustable to level the same when said centering pin is engaged with a work piece at a predetermined angle, said second level extending radially of said centering pin and being adapted to be leveled by rotation of said mounting means, a work piece engaging supporting member carried by said mounting means and positioned in aligned relation with said centering pin at right angles to the plane of said second level, said supporting member being longitudinally adjustable, an adjustable protractor fixed to said mounting means radially of said centering pin whereby said pin may be engaged with a work piece at a predetermined vertical angle, and said protractor including third level cooperating with said first level and said second level.

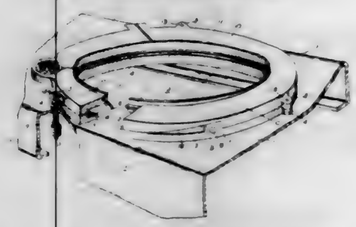
2,533,501
ELECTRICAL INSULATION COMPRISING POLYTETRAFLUOROETHYLENE
Wesley W. Pendleton and Harold M. Philofsky, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 24, 1948, Serial No. 16,704
4 Claims. (Cl. 174—120)

1. An insulated electrical conductor comprising in combination, an electrical conductor and insulation applied thereto, the insulation comprising solid polytetrafluoroethylene and petroleum asphalt applied thereto, the asphalt being applied between the conductor and the solid polytetrafluoroethylene to provide solid voidless insulation and to bond to the polytetrafluoroethylene, the petroleum asphalt having a ball and ring softening point of between 50° C. and 130° C.

2,533,502
ADJUSTING MEANS FOR HINGES
Richard T. Philips, Seattle, Wash.
Application August 1, 1949, Serial No. 107,889
2 Claims. (Cl. 16—131)

1. An adjusting means for hinges, consisting of: a fixed hinge leaf adapted for mounting on a fixed member; a movable hinge leaf adapted for mounting on a movable member; pintle receiving knuckles on each of said leaves, alternately disposed; pintle receiving bores, of uniform size axially aligned in each of said leaves; a pintle adapted to pass through said bores, having bearing portions axially aligned to form bearings in the knuckles of one of said leaves; alternately disposed crank portions formed on said pintle, positioned in the knuckle bores of the companion hinge leaf; said crank portions being of reduced diameter and being disposed within the general cylindrical form of said bearing portions; eccentric bushings mounted on said crank portions of said pintle; said bushings being longitudinally split open at their thinnest portion and requiring externally applied pressure to make them conform to the cylindrical form of their mating hinge knuckle bore; said bushings being beveled on one end to assist entering the same in their bores, and means for adjusting the rotary position of said pintle.

2,533,503
RING FOR RING SPINNING MACHINES
Gordon Haldane Pimley, Preston, England, assignor to Dobson & Barlow Limited, Bolton, England
Application October 1, 1949, Serial No. 119,043
In Great Britain October 23, 1948
3 Claims. (Cl. 57—122)

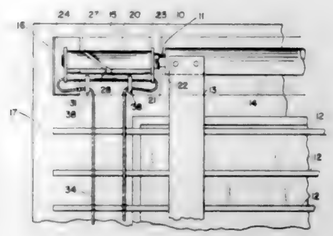


1. A ring for a ring spinning machine comprising a bottom ring and a top ring mounted upon said bottom ring, a ring rail carrying said rings and having circular holes in which said bottom ring is rotatably mounted, said bottom ring resting on said ring rail, a flange on said bottom ring extending downwardly over the edge of the hole and to hold said bottom ring rotatably in engagement with said rail, vertical projections at spaced distances on the top face of said bottom ring, said projections having inclined top faces, holes in said bottom rings for insertion of tommy levers to turn said bottom ring on said ring rail, said top ring being resiliently held down and centred on said bottom ring and having inclines on its under face resting on the inclined top faces of said vertical projections on said bottom whereby said top ring is raised and lowered as said bottom ring is turned.

2,533,504
THERAPEUTIC APPARATUS
Henry I. Poor, West Lafayette, Ind., assignor of one-fourth to J. Philip Sampson, Santa Monica, Calif.
Application April 19, 1948, Serial No. 21,769
7 Claims. (Cl. 128—24)

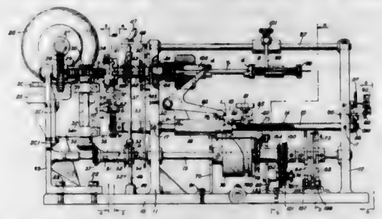
7. An applicator unit adapted to envelop a body portion to be treated, comprising: en elongate base member; a plurality of inflatable sections carried by said member extending substantially transversely thereof in side-by-side relation, each of said sections having a closed end and an open end; clamping means carried by each section adjacent its closed end adapted to adjustably receive and close the open end of the section, whereby its inflatable length may be varied; and means for independently connecting each section with a fluid pressure source.

2,533,505
VENETIAN BLIND TILTING DEVICE
Doston S. Powers, Linthicum Heights, Md.
Application March 14, 1949, Serial No. 81,349
2 Claims. (Cl. 160—176)



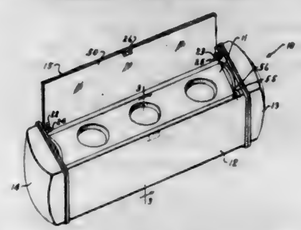
1. In combination with a window frame, an operating mechanism for tilting the slats of a Venetian blind, consisting of a barrel having one end secured to the upper bar of the blind, said barrel having a helical slot on its periphery, spaced brackets for supporting said barrel and allowing rotation of the barrel, mounting means for said brackets carried by the window frame, a tube having a longitudinal slot therethrough, said tube being parallel to said barrel and mounted in said brackets, an element guided through the slot of the tube and extending in said helical slot to rotate said barrel as said element reciprocates in the tube slot, and means for reciprocating said element to rotate said barrel and the upper bar of the blind to tilt the slats attached thereto.

2,533,506
UNIVERSAL COIL-WINDING MACHINE
Charles D. Richard, West New Brighton, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1947, Serial No. 745,213
7 Claims. (Cl. 140—92.2)



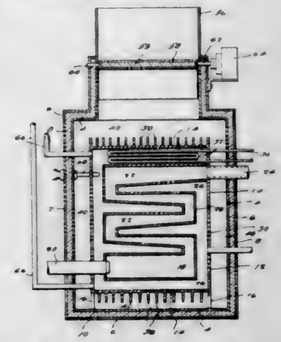
2. A machine for winding an electromagnet having a core and a plurality of concentrically disposed wire layers wound on the core, said machine comprising a pair of upright supports, a spindle mounted for free rotation on said supports, a sleeve mounted for free rotation on said spindle, a sleeve mounted for turning movement with said spindle but movable longitudinally thereon, a motor, a gear mechanism operatively connecting the first-mentioned sleeve to said motor, a clutch element carried by each of said sleeves engageable for rotating said spindle, a chuck carried by said spindle for securing one end of the core for rotating it, a lead screw, a ratchet mechanism operated by the movement of the first-mentioned sleeve for actuating said lead screw in either of two directions, a carriage actuated by the movement of said lead screw in said directions, a wire guiding element pivotally mounted on said carriage, a gearing mechanism actuated by said lead screw, a pair of contacts, a pair of electromagnets, an energizing circuit for said electromagnets connecting with said contacts, a cam actuated by the second-mentioned gearing mechanism for controlling the operation of said contacts to cause the alternate energization of said electromagnets, said magnets having a common armature operable for controlling the direction of rotation of said lead screw by said ratchet mechanism for winding the wire in parallel superposed relation on said core.

2,533,507
COSMETIC KIT
David Risberg and Melvin Heiman, Brooklyn, N. Y.
Application December 3, 1945, Serial No. 632,493
4 Claims. (Cl. 132—79)



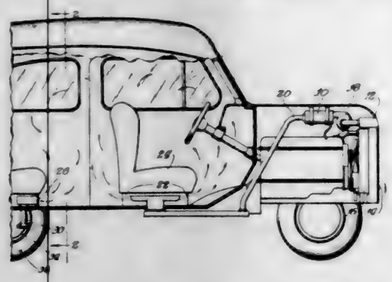
1. In a cosmetic kit the combination, of an outer casing and an inner rotatable body, said casing being supported on the circular periphery of each end of the body, said casing having a single hinged cover, said body extending through said casing at each end thereof, a pair of end plates attached to the circular shaped ends of said body, two hinged covers affixed at either end to the end plates, one on each exposed end of said body, means to hold cosmetics mounted on each of a plurality of faces of said body so that any one face is easily accessible through said single hinged opening.

2,533,508
FURNACE FOR HOT-AIR AND WATER SPACE HEATING WITH DOMESTIC WATER HEATER
Walter I. Riu, Philadelphia, Pa.
Application May 24, 1946, Serial No. 672,100
1 Claim. (Cl. 126—101)



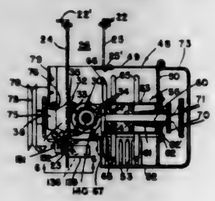
A heating device for connection to the inlet and return ducts of an air heating system comprising an insulated outer furnace casing, an inner furnace casing supported within said outer furnace casing and having its outer walls spaced from the inside of the outer casing to provide an air chamber therebetween, said outer furnace casing having an air intake and air discharge apertures formed therein and communicating with said air chamber, said air intake and air discharge apertures being adapted to be connected respectively with said inlet and return ducts of the air heating system, a combustion chamber disposed within said inner furnace casing, a tube extending through a wall of said combustion chamber for introducing a combustible mixture into the latter, means defining a tortuous passage within said inner furnace casing having one end connected to said combustion chamber and having the other end of said passage provided with an outlet for the discharge of the gases of combustion, the walls of said combustion chamber and said passage being spaced from said inner furnace casing to provide a water jacket chamber, a pipe in communication with the outlet of said passage for withdrawing the gases of combustion, a water heating element disposed within said water jacket chamber, means for introducing water to be heated into said heating element and withdrawing the heated water from the latter, fan means positioned exteriorly of said outer furnace casing and in communication with said air intake aperture, and a plurality of spaced superimposed self closing balanced louvers extending across said air intake aperture and mounted on said outer furnace casing to open inwardly of the latter named casing in response to the influence of a forced draft of air passing inwardly through said inlet aperture upon actuation of said fan means and to close upon cessation of the actuation of said fan means.

2,533,509
HEATING AND VENTILATING SYSTEM
Lewis A. Rodert, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application April 10, 1946, Serial No. 661,087
3 Claims. (Cl. 98—2)



1. A heating and ventilating system for a vehicle having rotatable wheels for supporting the vehicle upon the ground, said wheels having tires thereon comprising a hot air heater having inlet and outlet openings, duct means for conveying air to be heated from outside the vehicle to said inlet opening, duct means for conveying hot air from said outlet opening to the space within the vehicle, means forming a used air outlet opening, and duct means extending from the last said opening to the region adjacent one of the wheel axles and the last said duct means having an exhaust opening at substantially right angles to the last said wheel and said exhaust opening being located close to said wheel and between the wheel axle and the tire on said wheel.

2,533,510
COTTON STRIPPER
Merrill W. Roscoe, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 5, 1945, Serial No. 586,780
4 Claims. (Cl. 56—33)

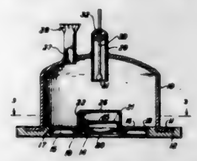


1. In a cotton harvester, stripping mechanism comprising: an upright wall; an elongated, rotatable stripping roll disposed alongside the wall with its principal axis generally parallel to the plane of the wall and at an angle to the vertical, and with the periphery of the roll proximate to the wall spaced laterally from the wall; and an elongated stripper member disposed lengthwise in the space between the wall and the roll and having a concave side adjacent to and spaced from the roll to provide a plant-receiving passage, said concave side conforming generally to the curvature of the roll and curving upwardly about the proximate portion of the roll and thence extending away from the wall and toward an upright plane including the axis of the roll to provide a member portion overlying the top of the roll and overhanging the plant-receiving passage.

2,533,511
SINGLE-LEAF VEHICLE SPRING
Frederick T. Rowland, Emsworth, and Milton B. Hammond, Edgeworth, Pa., assignors to Standard Steel Spring Company, Coraopolis, Pa., a corporation of Pennsylvania
Application November 29, 1945, Serial No. 631,590
1 Claim. (Cl. 267—47)

A camber single-leaf vehicle spring adapted to be loaded adjacent its ends and supported intermediate its load points, the spring tapering in width and thickness from adjacent its support toward each end, the tension surface of the spring cross-section being flat, the spring having a longitudinal groove in its compression side, the groove tapering in width and depth from adjacent its support to each end.

2,533,512
ULTRA HIGH FREQUENCY IONIC DISCHARGE SWITCH DEVICE
Arthur L. Samuel, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 26, 1945, Serial No. 618,762
9 Claims. (Cl. 315—5)

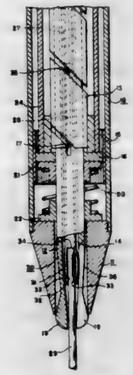


1. An ionic discharge device comprising a hollow metallic casing open at one end, an annular mounting plate secured to said open end, a metallic frame located in a recess of said plate, a window hermetically sealed in said frame and closing the open end of said casing, a gas filling at low pressure in said casing, a ring member mounted within said casing adjacent and coaxial with said window, a planary electrode element supported by said ring and opposite said window, said element having symmetrical cut-out portions converging toward the center thereof to form projections separated by a short gap, and a cavity resonator chamber separating said electrode element from the remainder of the space in said casing, said chamber having an aperture opening into said casing.

2,533,513
VARIABLE LEAD GRIP SLEEVE FOR MECHANICAL PENCILS
Mark E. Savoie, Cleveland, Ohio
Application August 11, 1949, Serial No. 109,728
4 Claims. (Cl. 120—18)

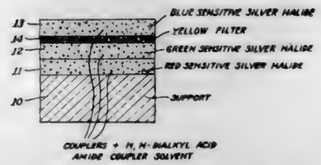
1. In the propel-retract mechanism of a pencil adapted to receive any one of many leads of

numerous diameters, shapes or sizes, a guide tube having a slot extending longitudinally thereof, a helix turnable about said guide tube, and a lead grip sleeve slidable in said guide tube and

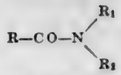


having a projection extending through the slot and operably engaging said helix, said lead grip sleeve having axially extended bowed fingers of resilient material for gripping a lead inserted therebetween.

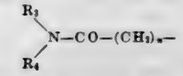
2,533,514
PHOTOGRAPHIC EMULSIONS CONTAINING COLOR COUPLERS AND AMIDE COUPLER SOLVENTS
George W. Sawdey and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 19, 1947, Serial No. 787,016
10 Claims. (Cl. 95—7)



1. A light-sensitive photographic emulsion for producing a colored image comprising finely-divided liquid particles of a mixture of a color former compound capable of reacting with the oxidation product of a primary aromatic amino developing agent and a compound of boiling point above about 175° C., having the structure

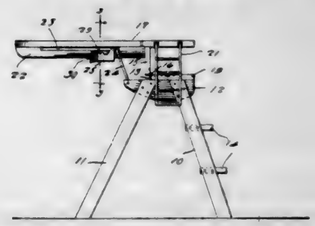


where R is a member of the group consisting of alkyl groups of from 1 to 19 carbon atoms, and the group



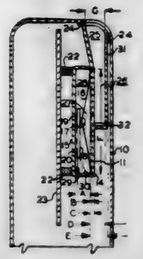
in which R_1, R_2, R_3, and R_4 are alkyl groups of from 2 to 10 carbon atoms and n is an integer from 1 to 12, said particles being dispersed in a light-sensitive silver halide-organic colloid emulsion.

2,533,515
CONVERTIBLE CHAIR, IRONING BOARD, AND STEPLADDER
Charles B. Scarborough, Knoxville, Tenn.
Application February 1, 1946, Serial No. 644,851
1 Claim. (Cl. 155—41)



A convertible furniture item adapted to provide an ironing board, a high chair or a step-ladder, said item comprising a pair of side boards, a top board secured at its ends to the top edges of said side boards securing said side boards in predetermined, spaced-apart relationship, four mutually diverging legs secured at their upper ends, two to each of said side boards, ladder steps secured between one pair of legs, a support board hinged along one edge to said top board, an ironing board secured intermediate its length to the opposite edge of said support board, a stiffening rib secured to the under side of said ironing board at one side of said support board and having a cut-away portion providing a guideway adjacent said ironing board, a stirrup brace pivotally secured at its ends to said side boards and having its intermediate portion slidable in said guideway, and a latch member pivotally secured to said stiffening rib and spring urged in a direction to constrain the intermediate portion of said brace to one end of said guideway to support said ironing board in generally horizontal position and being manually movable to release the intermediate portion of said brace to permit tilting said ironing board to a generally vertical position wherein the upper part thereof constitutes a chair back, the seat of which comprises said support board and top board.

2,533,516
HEARING AID MICROPHONE
Walter A. Schwalm, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 29, 1948, Serial No. 57,315
4 Claims. (Cl. 179—10.7)



1. A hearing aid for amplifying and reproducing sound waves comprising: a case including a front portion, a back portion and an enclosing edge portion provided with a sound-admitting aperture which is located solely in the

top-peripheral portion of said case and which has a length less than that of said top portion; a microphone assembly within said case including a housing having a sound admitting aperture and including a diaphragm in spaced parallel relationship with said front case portion and in registration with said housing aperture; a closed sound directing conduit member having a pair of openings registering respectively with and extending between said apertures of said case and said housing and constituting the sole sound passage to said diaphragm; and support means for supporting said microphone assembly within said case and for substantially acoustically insulating said microphone assembly therefrom.

2,533,517

MANUFACTURE OF ALKYL ARYL HYDROCARBONS

Edward J. Schwoegler, Hammond, Ind., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application September 25, 1947, Serial No. 776,153
6 Claims. (Cl. 260—671)

1. The method of making alkyl aryl hydrocarbons as an intermediate in the manufacture of alkyl aryl sulfonates, comprising admixing a relatively low boiling petroleum distillate fraction in the kerosene range, consisting predominantly of 10–11 carbon atom alkyl hydrocarbons, and a relatively higher boiling petroleum distillate fraction in the kerosene range consisting predominantly of 13 carbon atom alkyl hydrocarbons, chlorinating the resultant mixture to an extent corresponding to above 50% and up to 100% monochlorination, and condensing the chlorinated hydrocarbon mixture with a member of the benzene series in the presence of aluminum chloride.

2,533,518

WARNING APPARATUS FOR MOTOR VEHICLE OPERATORS

William H. Scott, Gettysburg, Pa.

Application February 14, 1950, Serial No. 144,063
6 Claims. (Cl. 177—311)

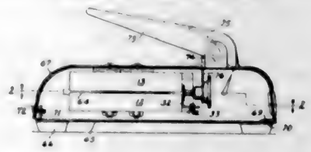
1. Apparatus for warning a motor vehicle operator against leaving a key in the ignition lock of the vehicle comprising a case, a key pivotally mounted on said case, a warning indicator circuit, a battery in said circuit, a warning indicator in said circuit, a first switch in said circuit responsive to the angular position of said case, and a second switch in said circuit in series with said first switch and responsive to the pivotal position of said key relative to said case, said switches cooperating to close said circuit while said key is in an ignition lock with the ignition locked.

2,533,519

CARBON RESISTOR RHEOSTAT

Alexander Sharenow, New York, N. Y.

Application October 15, 1948, Serial No. 54,658
3 Claims. (Cl. 201—48)



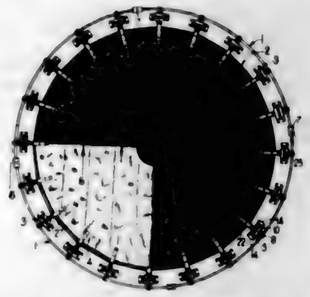
1. A casing for a carbon disc rheostat comprising a pair of two rectangular members of insulating material of given thickness, length and width, placed face to face, each of said members having two lengthwise grooves in their proximate faces extending parallel to each other and spaced apart to furnish control areas in the members, said groove being in mating relation and adapted to house piles of carbon discs therein, fastening means extending through said central areas for securing the pair of members together, and spacers for holding the proximate faces of the members apart.

2,533,520

LIFESAVING NET

William B. Shimp, Columbus, Ohio

Application May 14, 1946, Serial No. 669,593
2 Claims. (Cl. 227—46)



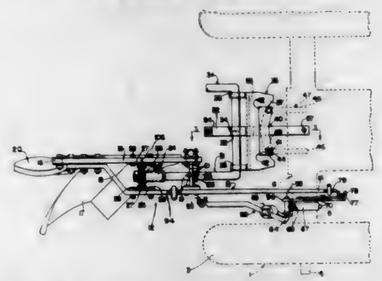
1. A life saving net comprising an annular frame, a net of annular form having its edge spaced from the frame, a plurality of circumferentially spaced shock absorbing units disposed in said space, anchoring brackets mounted on the frame and anchoring brackets carried by the net for connecting said units to the frame and net, each of said units comprising a rod disposed substantially chordal to the frame, a compression spring surrounding the rod, a pair of cross-heads associated with the rod for movement towards and away from each other and engaged by the spring, a pair of outer levers having their outer ends pivoted to the cross-heads and their inner ends pivoted to each other and to said anchoring bracket mounted on the frame and associated therewith, a pair of inner levers having their outer ends pivoted to the cross-heads and their inner ends pivoted to each other and to the anchoring bracket connected to the net and associated therewith, an impact cushioning pad of circular outline supported slightly above said net and having its edge spaced from the frame, and means for yieldingly attaching said pad to the frame, said means including radially extending tension springs extending over the associated shock absorbing units, each of said springs having its outer end connected to said anchoring bracket mounted on the frame and its inner end connected to an anchoring bracket attached to said pad.

2,533,521

QUICK DETACHABLE HITCH

Walter H. Silver and Robert E. Cox, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Original application December 4, 1944, Serial No. 566,539. Divided and this application January 11, 1946, Serial No. 640,570
19 Claims. (Cl. 97—47)



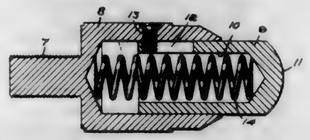
13. In a tractor mounted implement, a quick detachable connection between the tractor and the implement comprising an arcuate part connected with the forward portion of the implement, a pair of interconnected vertically spaced parts adapted to be carried by the tractor, the spacing between said parts being such as to accommodate the disposition of said arcuate part therebetween, said arcuate part being movable laterally between said guide parts, said tractor having a laterally swingable draft transmitting member movable about a generally vertical axis, said arcuate part being arcuate about said axis when mounted in place between said guide parts, and means detachably connecting said arcuate part with said laterally swingable tractor-carried part.

2,533,522

SHOCK ABSORBING ANVIL ATTACHMENT FOR DIAL INDICATORS

James G. Sisson, Athol, Mass., assignor to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts

Application September 28, 1944, Serial No. 556,272
3 Claims. (Cl. 33—172)



1. A shock absorbing anvil for attachment to the forward end of the actuating spindle of a dial indicator or the like, comprising a body having an axially disposed shank of reduced diameter integral therewith and extending rearwardly therefrom for engaging the spindle and having extending axially into the body from its forward end an opening closed at its rear end by a bottom wall adjacent to the shank, a work contacting element slidably supported by said body for movement axially thereof forwardly and rearwardly with respect thereto, a relatively long helical spring disposed within said opening with its two ends respectively engaging said wall and the work contacting element forwardly of the opening and acting expansively thereon and therebetween constantly to urge the contacting element forwardly relative to the body, and coengaging stop shoulders on the body and element wholly outside of said spring disposed to permit said axial movement of the contacting element and limit forward movement thereof relative to the body.

2,533,523

METHOD OF MAKING ARTIFICIAL FLIES

William F. Sivey and Delia I. Sivey, Tecumseh, Nebr.

Original application January 21, 1949, Serial No. 71,864. Divided and this application December 16, 1949, Serial No. 133,326
4 Claims. (Cl. 43—42.53)

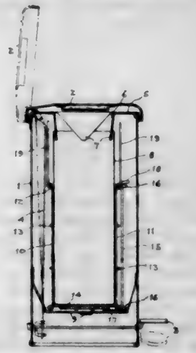
4. In the method of making a fishing lure, securing a pair of cords of different colors longitudinally on the shank of a fishing hook with the end portions of said cords extending loosely beyond said shank, tying the loose end portions of said cords in knots in rows about said shank and said longitudinal cords thereon, said knots being tied alternately on opposite sides of said shank and all knots being tied alike so as to dispose cord portions of the same colors in the corresponding portions of all the knots.

2,533,524

WASTE DISPOSAL UNIT

Arthur Melville Snider, Waterloo, Ontario, Canada

Application December 20, 1945, Serial No. 636,171
2 Claims. (Cl. 220—1)



1. A waste disposal unit comprising an outer casing open at the top, a wire cage open throughout the entire top and having the major portion of its wall and bottom surface area formed by the interstices between the wires, support means arranged within said casing and engaging the bottom of said cage to guide same to and support same in a centralized position within said casing spaced from the walls and bottom thereof to ensure free air circulation around and beneath the entire surface of said cage, said cage having a hinged bottom swingable between a position

opening and closing said cage at the bottom, and held in cage bottom closing position by said support means, a vertical rod rotatably mounted on said cage and having a laterally extending latch portion to engage beneath said hinged bottom to hold same closed when removed from said support means, and a handle portion angularly disposed with respect to said laterally extending latch portion, the spacing between said cage and the wall of said outer casing permitting said rod handle to swing outwardly clear of the open top of said cage with said casing wall limiting said handle movement to an angle outwardly of the cage less than the angle between said handle and latch portion whereby unlatching of said bottom is prevented within said casing, a pair of carrying handles pivoted to the top of said cage to swing together above said open cage top, a disposable paper bag arranged in said cage, a guide cover supported on said casing and formed with a central opening having at opposite edges thereof depending guide tabs entering into the mouth of said bag to hold same extended, the pivotal carrying handles of said cage being received between said tabs and the casing wall with said tabs barring pivotal movement of said handles to close the mouth of said bag.

2,533,525

POLYMERIZATION OF STYRENE EMPLOYING PHTHALIMIDE AS CATALYST

Francis H. Snyder, New Rochelle, N. Y., assignor to Irving L. Rabb, New York, N. Y.

No Drawing. Application March 17, 1947, Serial No. 735,252

7 Claims. (Cl. 260—93.5)

1. A method of producing polystyrene which comprises, polymerizing styrene monomer, free from inhibitors, at elevated temperature in the presence of about 0.11% by weight of phthalimide.

2,533,526

BEAUTY PILLOW

Yvonne Bersia Snyder, Forest Hills, N. Y.

Application February 8, 1946, Serial No. 646,278

3 Claims. (Cl. 128—163)

1. An article to be worn on both sides of the head and over the ears to prevent wrinkling of the skin of the face, comprising: at least one wedge-shaped pad, straps attached to said pad adapted to fit about the head to hold the pad in a fixed position, the thickest portion of said pad being sufficiently thick to keep a cheek of the wearer from contacting a support for the head, and the thinnest portion of said pad being sufficiently thin to permit the wearer's head to roll onto said pad without obstruction.

2,533,527

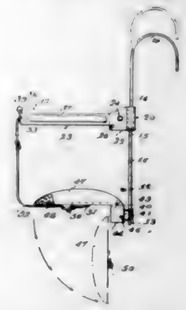
BABY'S AUTOMOBILE SEAT

John A. Soltis, Reading, Pa.

Application July 2, 1948, Serial No. 36,772

10 Claims. (Cl. 155—11)

1. A baby's automobile seat comprising a frame adapted to be disposed against the forward side of the back rest of an automobile seat, hook members extending upwardly from said frame and adapted to engage over the upper edge of the back rest for supporting the frame thereon, a guard rail, means for swingably connecting one end of said guard rail to a side of the frame for swinging movement of the guard rail in a plane substantially at a right angle to the plane of the frame, said end of the guard rail being pivotally connected to said means for upward swinging movement relatively thereto in a plane at a right angle to the plane of the first mentioned swinging movement of the guard rail, a stop connected to said means and disposed to engage said guard



rail end for supporting the guard rail in a position at a right angle to the frame and preventing the guard rail from swinging downwardly beyond said position, means for detachably connecting the opposite end of the guard rail to the other side of said frame, said last mentioned end of the guard rail being mounted for swinging movement in an upward direction relative to said last mentioned means, a seat swingably connected to the frame below said guard rail, and flexible means detachably connected to the guard rail for supporting the seat in an operative position substantially at a right angle to the frame.

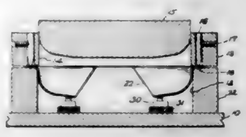
2,533,528

PROCESS OF MAKING STEEL TOE BOXES

William Warren Somersall, Natick, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire

Application April 1, 1948, Serial No. 18,455

1 Claim. (Cl. 113—51)



The process of making right and left steel toe boxes in pairs which includes the steps of locating a pair of segmental sheet steel blanks over opposite ends of a single elliptical die cavity with the inner edges of the blanks opposed in spaced relation and disposed at a predetermined angle to each other, gripping the outer curved margins of both blanks, depressing both blanks simultaneously into opposite ends of the same die cavity thus drawing the steel blanks by equalized pressure into right and left dome-shaped bodies with outturned flat margins, trimming the flat margins, and then molding the margins to provide inturned flanges.

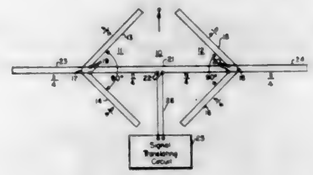
2,533,529

WIDE BAND ANTENNA

Joseph C. Spindler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application December 27, 1949, Serial No. 135,146

10 Claims. (Cl. 250—33)



1. A wide-band antenna operable over two frequency ranges spaced from one another in the frequency spectrum comprising: a pair of folded dipoles spaced from one another by a distance of approximately one-half wavelength at the center frequency of the higher one of said frequency ranges, individually having an effective electrical length of substantially one-half of said wavelength, and individually having terminal portions for connection to a feeder; a parallel-wire transmission line, having feeder terminals in the central portion of one of its conductors, extending between said terminal portions of said dipoles to constitute a feeder for said dipoles; and a pair of short circuited parallel-wire transmission-line sections, each having an effective electrical length of substantially one quarter of said wavelength, extending from said terminal portions of said dipoles, respectively, and forming in combination with said first-mentioned transmission line an antenna element having an effective electrical length of the order of one-half wavelength at the center frequency of the other of said frequency ranges

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2,533,530

PHOTOSENSITIVE COATING CONTAINING RUBBER LATEX

Henry C. Staehle, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 3, 1947, Serial No. 745,735

7 Claims. (Cl. 95—7)

2. A light-sensitive coating composition comprising a mixture of a bichromated gelatin, an aqueous dispersion of natural rubber latex, and an aqueous dispersion of a water-insoluble, soft, acrylate resin selected from the group consisting of polymethyl acrylate and polyethyl acrylate and mixtures thereof, said composition being adapted to produce a light-sensitive coating in which a reversal image can be formed by exposure to light and development in an aqueous solution.

2,533,531

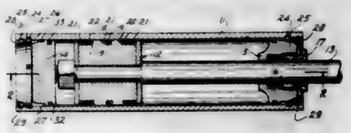
CYLINDER ASSEMBLY

William T. Stephens, Painesville, Ohio

Application July 24, 1945, Serial No. 606,866

5 Claims. (Cl. 309—2)

1. In combination a hydraulic cylinder, an annular groove in the bore of said cylinder near the end thereof, a snap ring in said groove, a cylinder head, initially movable, having a shoulder adapted to engage said snap ring for limiting the extent of movement of said cylinder head, an annular groove around said cylinder head, and a ring of rubber-like material in said cylinder head groove, said rubber-like material being of



the type adapted to absorb oil or the like whereby it swells and tightly holds said cylinder head within said cylinder.

2,533,532

ELECTRODEPOSITION OF NICKEL

William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

No Drawing. Application January 8, 1946, Serial No. 639,869

3 Claims. (Cl. 204—49)

1. In the electrodeposition of nickel from a bath of the Watts type wherein the nickel sulphate and nickel chloride are present in a ratio between 2:1 and 8:1, which is substantially free from formaldehyde and from sodium, potassium, and ammonium ions, the method of setting up the operation to yield deposits of a predetermined specified hardness between about 100 and about 400 Vickers, which comprises including the formate radical in the bath and so establishing the proportion thereof, and other conditions of deposition, in accordance with the degree of Vickers hardness V specified for the deposit that

$$V=[500A+800(F-0.128)]\sqrt[4]{\mathrm{pH}/CD}$$

and within limits about as follows: the ratio F of formate to total nickel between 0.1 and 0.5, the pH between 2.0 and 3.5, the current density CD between 120 and 30 amperes per square foot, and the agitation factor A between 1.0 corresponding to moderate agitation and 2.0 corresponding to turbulent agitation, and bringing the bath to a temperature of between 110 and 160 deg. Fahrenheit.

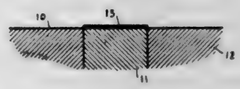
2,533,533

METHOD OF FORMING A STRONGLY ADHERENT ELECTRODEPOSIT

William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

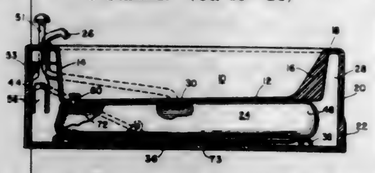
Application January 8, 1946, Serial No. 639,870

10 Claims. (Cl. 204—16)



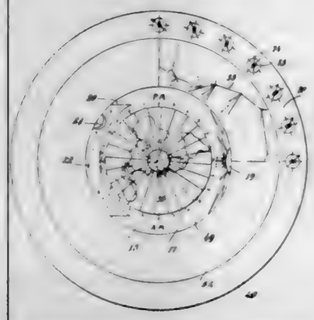
1. In preparation for the electrodeposition of nickel onto a metallic surface composed in part of solder and part of a metal chosen from the class consisting of steel and nickel, the step of forming on and co-extensive with the surface of the solder, by making the surface anode in a concentrated aqueous solution of sulphuric acid and phosphoric acid an electrically conducting film which is resistant to penetration or removal by the plating solution.

2,533,534
TOY BATHTUB
Thomas E. Tellefsen, Seattle, Wash.
Application March 29, 1948, Serial No. 17,792
5 Claims. (Cl. 46—14)



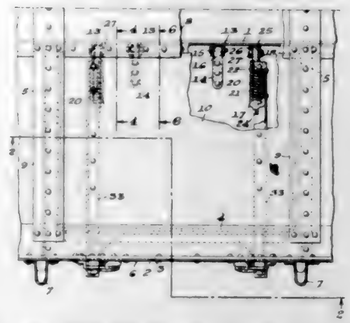
1. A toy bathtub, consisting of: a tub of rectangular form having a sloping bottom; a downwardly extending skirt surrounding and supporting said tub; a compressible, self restoring, water chamber disposed below the bottom of said tub; a water discharge tube, communicating with said chamber and having a discharge end adapted to direct water into said tub; a vertically movable support disposed below said chamber and adapted to contact its lower surface; means engageable outside of said bath tub adapted to raise said support and compress said water chamber; a drain for said tub communicating with said chamber; a drain plug adapted to selectively seal said drain opening against upward flow of water, or to permit the flow of water downwardly through said drain.

2,533,535
EDUCATIONAL APPARATUS
Andre Tellier, New York, N. Y.
Application September 17, 1945, Serial No. 616,783
4 Claims. (Cl. 35—44)



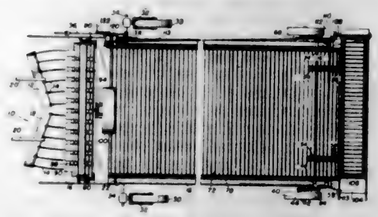
1. An educational apparatus including a disc member having an annular portion with representations of various cities of the world on one surface thereof and having lines representing air routes between said cities, timing devices spaced annularly around said disc member adjacent the outer periphery of said disc member, each timing device including a shaft, an hour hand on said shaft and a minute hand on said shaft, a hollow rotatable shaft extending through the center of said disc member, a transparent disc fixed on the central hollow shaft adjacent one face of said disc member inwardly of said annular portion, said transparent disc having a representation of a map on one surface thereof, mechanism for simultaneously rotating said shafts including a motor operatively connected to the hollow central shaft, a pair of independently movable disc wheels operatively connected to said hollow shaft, intermeshing gears on said wheels and on the shaft supporting the hour and minutes hands of each timing device, linkage in said hollow shaft connected to the operative connection between the shaft and disc wheels and a manually operated plunger adapted to move said linkage for breaking said operative connection between said shaft and disc wheels.

2,533,536
DOOR MECHANISM FOR RAILWAY CARS
Lambert J. Tillman, Toledo, Ohio
Application May 9, 1947, Serial No. 746,896
9 Claims. (Cl. 105—286)



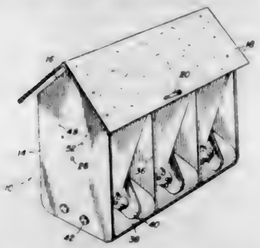
1. A door mechanism for a railway car having a hinged door movable downwardly to open position, and spring means resisting opening movement of said door, said means including an arm pivoted to the door and depending therefrom adjacent its hinged edge, and a spring interposed between an abutment and said arm to cause the arm to engage a fixed part of the car and thereby afford resistance to opening movement of the door, said spring exerting its greatest force on the door when the door is closed and being compressed most when the door is open.

2,533,537
MACHINE FOR HARVESTING PEANUTS
Jesse O. Turner, Denison, Tex.
Application May 12, 1947, Serial No. 747,534
4 Claims. (Cl. 55—134)



1. A peanut harvester adapted to be drawn by a tractor and including a digger mounted on a tractor, a wheeled frame with a receiving platform immediately behind said digger, an elevator conveyor on said frame behind said platform, means on said frame to pick up vines and peanuts from said platform and to deliver the same onto said conveyor, means to actuate said elevator conveyor, an inclined delivery chute extending transversely of said elevator conveyor at the rear end thereof, and a blower mounted on said frame adjacent the lower forward end of said elevator conveyor to agitate the vines and thus to assist in removing earth clinging thereto.

2,533,538
HOG FEEDER
Emanuel Uhrenholdt, Clearwater, Nebr.
Application June 29, 1948, Serial No. 35,870
3 Claims. (Cl. 119—54)

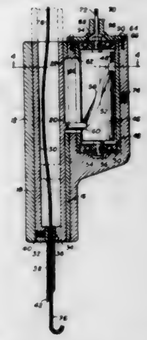


1. An automatic hog feeding device comprising a bin having a bottom wall, a pair of end walls secured to the bottom wall, a pair of downwardly and inwardly inclined side walls secured to said end walls and having lower edges spaced above said bottom wall and a closure supported by said end walls and said side walls, a pair of elongated apron forming members carried by the bottom wall and curved toward the side walls, said apron forming members being spaced above the bottom wall and having longitudinally spaced transverse slots, a purality of spaced parallel, substantially vertical spacer walls secured to the outer surfaces of said side walls and to the bottom wall to define a plurality of troughs, said spacer walls being received in said slots, said apron-forming members having openings therein providing entrances to feed disposed on the bottom wall, means located within the bin and disposed between said side walls for agitating feed in the bin, and means mounted in said bin beneath said apron-forming members for directing feed in the bin toward the openings in said apron-forming members, said last-mentioned means actuating said agitating means.

2,533,539
RESEALABLE CARTON CLOSURE HAVING METALLIC CLIP FASTENING MEANS
George Stewart Vivian, Surbiton, England, assignor to Satona Limited, Leeds, England, a corporation of Great Britain
Application July 17, 1945, Serial No. 605,598
1 Claim. (Cl. 229—65)

Means for closing and sealing a carton, of the type in which the closure is formed by pressing together oppositely disposed parallel side walls of the carton adjacent the top to form an up-standing multi-layer flap and snapping over the flap a pressure closure, comprising a part of the upstanding flap folded over and downwardly upon itself to form a vertical doubled flap having a longitudinal free edge spaced from but parallel to the top of said flap, a substantially U-shaped resilient metal clip completely enclosing said vertical double flap, the width of the arms of said clip being greater than the width of the doubled flap, and said clip having its longitudinal edges rolled inwardly to form a pair of rounded beads parallel to the apex of said clip, the rounded lower surface of said beads enabling the clip to be sprung over and snapped on the doubled flap and enabling it to be pressed downwardly over said free edge of the flap, the rounded upper surface of one of said beads forming an abutment which engages the free edge of said flap to obstruct the upward pulling off of said clip.

2,533,540
NEEDLE PUNCH MACHINE
Ralph H. Warmack, Dalton, Ga.
Application January 22, 1948, Serial No. 3,761
3 Claims. (Cl. 112—80)



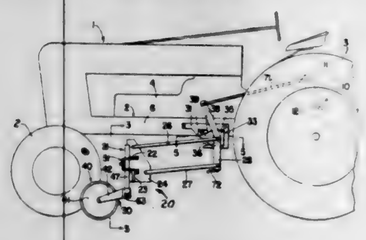
1. A needle punch machine comprising a substantially cylindrical housing, a channel shaped guide fixed at its web portion to said housing, a longitudinal slot communicating with said housing and said guide, a closure plate removably secured to said guide, a hollow needle bar slidably mounted in said guide and having an open upper end, a needle carried by the lower end of said needle bar, a lug projecting laterally from said needle bar and received in said slot for reciprocable movement, and means mounted in said housing and engaging said lug for imparting reciprocable motion to said needle bar.

2,533,541
WHEELED GOLF CLUB CARRIER
Alfred Warring, Detroit, Mich.
Application June 7, 1946, Serial No. 675,016
1 Claim. (Cl. 280—53)

A golf club carrier comprising: an axle; a traction wheel mounted at each end of said axle; a U-shaped member having a pair of spaced apart legs; a knuckle on the end of each of said legs to provide a bearing for said axle, said axle pro-

jecting through and being journaled in said knuckles, said knuckles being positioned on said axle inwardly of said wheels adjacent the inner faces thereof, and said legs projecting upwardly from said axle; a pair of golf club supporting bars extending transversely of said legs and mounted thereon in spaced relation to each other intermediate the ends of said legs, said legs being rearwardly angularly turned below the lowermost of said bars and rearwardly angularly turned above the uppermost of said bars, the lower angularly turned portion of said legs being such as to retain the center of gravity of said structure positioned forwardly of the center of said axle; and a supporting leg connected centrally to the lowermost of said bars and projecting forwardly and downwardly therefrom for engaging the ground and resisting the forward tilt of said legs on said axle.

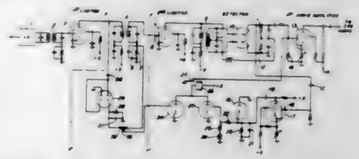
2,533,542
DETACHABLE TRACTOR MOUNTED IMPLEMENT
Claude W. Walz and Robert D. Griff, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 15, 1944, Serial No. 563,543
8 Claims. (Cl. 97—47)



2. A tractor mounted implement adapted to be applied to and removed from the tractor by shifting the implement laterally to and from a position underneath the central portion of the tractor and extending transversely thereof, said implement comprising a transverse frame, a pair of implement-receiving members adapted to be connected underneath the tractor to the opposite sides thereof, an attaching member, generally parallel links connecting said attaching member with said implement frame, and quick detachable means for connecting said attaching member to said implement-receiving members on the tractor, said attaching member comprising a pair of spaced parts receiving said quick detachable means and a pipe member rigidly secured to said parts and holding them at the desired spacing, the ends of said pipe member being open and receiving the ends of certain of said links.

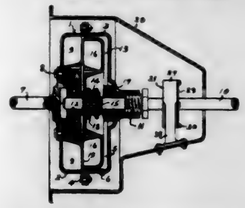
2,533,543
OFF-CHANNEL SQUELCH CIRCUIT FOR RADIO RECEIVERS
William R. Young, Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 6, 1947, Serial No. 790,081
8 Claims. (Cl. 250—20)

3. In combination in a radio receiver including a signal responsive device, a network having a pair of input terminals and a pair of output terminals, said network having a constant input impedance and being selectively responsive at its output terminals to received carrier waves in the frequency band to which the receiver is tuned, an amplitude limiter for received carrier waves, said limiter having its output terminals coupled to the input terminals of said network, a rectifier connected to said input terminals for developing a rectified control voltage substantially independent of frequency, a rectifier connected to said output terminals for developing a rectified control voltage of opposite polarity to that of the first rectified voltage, the second rectified voltage



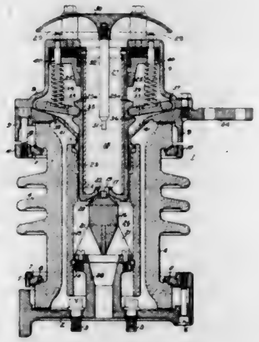
decreasing in magnitude with the departure of the received carrier frequency from the mid-band frequency of the receiver, a circuit differentially combining fractional parts of said rectified voltages so that the resultant voltage has one polarity for frequencies outside the frequency band of the receiver and the opposite polarity for frequencies within the band, a control device operative in response to an impressed voltage to enable or disable the said signal responsive device, and a circuit for applying the said resultant voltage to the said control device.

2,533,544
ROTARY HYDRAULIC COUPLING
Raphael Zavarella, Pittsburgh, Pa.
Application May 12, 1945, Serial No. 593,364
1 Claim. (Cl. 60—54)



A fluid controlled change-speed power transmission mechanism including a driving shaft, a fluid retaining casing secured to the rear end of the driving shaft to rotate with the latter, a plurality of driving vanes secured in said casing, a ball bearing including a revoluble section secured in said casing, a driven shaft revolubly extended into said casing and being aligned with the driving shaft, the forward end of said driven shaft being secured in said revoluble section of said ball bearing, a runner including an integrally formed hub mounted in said casing, a plurality of driven vanes carried by said runner and being disposed in opposed spaced relation to said driving vanes, said hub being engaged on said driven shaft to rotate with the latter, said hub being longitudinally shiftable on said driven shaft to vary the spaced relation between said driving vanes and said driven vanes, a stop collar fixed on said driven shaft in said casing rearwardly of said hub, the abutting of the forward end of said hub against said revoluble section of said ball bearing limiting the forward movement of said runner on said driven shaft for providing the minimum spaced relation between said driving and driven vanes, the abutting of the rearward end of said hub against said stop collar limiting the rearward movement of said runner on said driven shaft for providing the maximum spaced relation between said driving and driven vanes, and a spiral spring mounted on said hub and engaging said stop collar and said runner, said spring being normally operable for forcing the said runner to the maximum forward position on said driven shaft for normally providing the minimum spaced relation between said driving and driven vanes.

2,533,545
CIRCUIT BREAKER WITH LEVER TYPE CURRENT CONNECTION
Chester D. Ainsworth, Wollaston, and Gustav E. Jansson, North Quincy, Mass., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 7, 1948, Serial No. 63,932
9 Claims. (Cl. 200—82)



1. In a switching device, the combination of a pair of stationary terminal elements, a stationary contact electrically connected to one of said terminal elements, a movable contact adapted to cooperate with said stationary contact and to reciprocate between a pair of extreme positions, a substantially rigid lever resting upon and conductively interconnecting said movable contact and the other of said terminal elements, and dual purpose spring means for establishing contact pressure between said lever and said movable contact and between said lever and said other of said terminal elements and for moving said movable contact from one of said extreme positions to the other of said extreme positions.

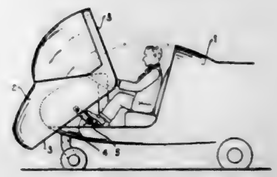
2,533,546
WATER DRIVE
Frederick W. Albaugh, Richland, Wash., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application March 8, 1948, Serial No. 13,739
11 Claims. (Cl. 166—21)

1. A water flooding process comprising the step of injecting a water drive fluid from an input well into an oil-bearing formation to drive said oil toward an output well, wherein said water drive fluid contains a glycoside, said glycoside yielding an aglycone and a monosaccharide upon hydrolysis.

2,533,547
VENTILATED LENS RING
Marshall N. Anderson, Chicago, Ill., assignor to Sellstrom Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 20, 1946, Serial No. 663,702
4 Claims. (Cl. 2—14.7)

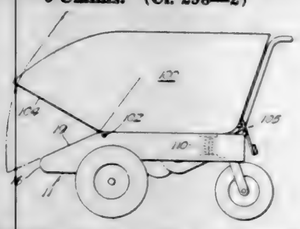
1. A lens-mounting for goggles, helmets, masks, and the like comprising a frontal lens-mount holding member provided with a substantially circular opening having recesses at a number of points about its periphery, a deformable holding-ring extending through and secured in said opening, an externally threaded lens-spacing-ring secured to said holding-ring, and an internally threaded lens-retaining-ring screwed upon said spacing-ring, said spacing-ring being provided with tortuous lateral light-trapping ventilating passages.

2,533,548
COCKPIT COVER FOR AIRPLANES
Willem A. J. Backer, Haarlem, Netherlands, assignor to N. V. Nederlandsche Vliegtuigenfabriek Fokker, Amsterdam, Netherlands, a company of the Netherlands
Application May 4, 1948, Serial No. 24,983
In the Netherlands May 16, 1947
1 Claim. (Cl. 244—121)



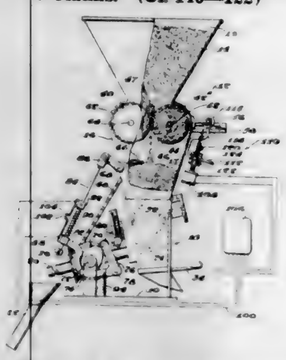
In an aircraft fuselage having a nose section, a portion of said section being cut away along substantially vertical and horizontal planes in the general shape of an L to provide a cockpit open at the front, top and sides; a seat in said cockpit above the level of the horizontal plane; a cover member movable between open and closed positions, said cover member having front, top and side sections to fit the space between said planes, said cover member having edges which in its closed position are adjacent said planes, and linkage means pivotally connecting said cover member and said fuselage.

2,533,549
POWER-DRIVEN WHEELBARROW
Lawrence D. Bell, Eggertsville, N. Y., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.
Application January 9, 1947, Serial No. 721,020
6 Claims. (Cl. 298—2)



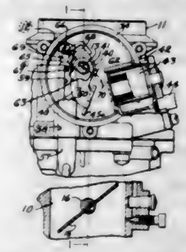
1. In combination, a utility unit comprising a rigid frame mounting engine means and traction wheels coupled to said engine means, said frame having a sloping top end portion extending longitudinally beyond said traction wheels, a wheelbarrow type pan pivotally mounted upon said frame and having a forwardly and upwardly sloping front lip portion extending away from said frame and adapted to abut against said sloping top of said frame upon pivoting of said pan, whereby said unit may be tilted forwardly to cause said pan to pivot and roll over onto said sloping top for dumping the load from said pan.

2,533,550
TEA CUTTING AND FEEDING MECHANISM
Lawrence F. Blackwell, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application March 27, 1947, Serial No. 737,658
9 Claims. (Cl. 146—122)



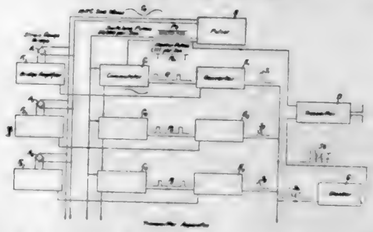
1. In a device of the character described, in combination, a hopper for containing a bulk supply of uncut tea, tea cutting rollers associated with said hopper, a second hopper communicating with said first hopper and arranged to receive the cut tea discharged by said cutting rollers, means for continuously withdrawing and feeding the cut tea from said second hopper, and means for controlling the operation of said cutting rollers in accordance with the supply of cut tea in said second hopper, said control means including a cam-operated feeler plate arranged to be restrained in its movement by engagement with the top of the accumulated pile of material in said second hopper, and means operatively connected to said feeler plate for terminating the operation of said cutting rollers when the feeler plate is thus restrained.

2,533,551
ENGINE STARTING DEVICE
Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application May 9, 1947, Serial No. 747,029
16 Claims. (Cl. 261—39)



16. In a carburetor, a mixture conduit having choke and throttle valves therein, a thermostat for urging said choke valve closed when the temperature is low, a cam device rotatable with said choke valve, a member movable with said throttle valve in proximity to said cam device, a lever forming an operative connection between said member and said cam device including a part for engaging said cam device, responsive to substantially full opening of said throttle valve, to partly open said choke valve against said thermostat, said connection having a second part disposed to engage said cam device when said choke valve is in a restricting position to limit closing movement of said throttle valve to a fast idle position, and a stop element having an operative connection with said choke valve for movement therewith when said choke valve is partly opened to a position to interfere with movement of the member movable with said throttle and thereby prevent full opening movement of said throttle valve, said stop element being movable to a second position responsive to movement of said choke valve toward its closed position from said partly open position to clear said member and thereby permit opening movement of said choke valve by full opening of said throttle valve.

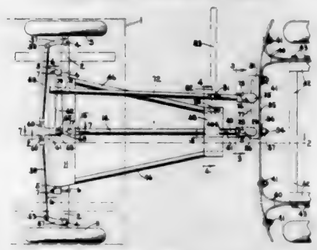
2,533,552
SIGNAL CONVERTER FOR MULTISIGNAL TRANSMISSION SYSTEMS
John F. Brinster, Princeton, N. J., and Jack Larsen, Jackson, Mich., assignors to Research Corporation, New York, N. Y., a corporation of New York
Application November 21, 1945, Serial No. 630,080
2 Claims. (Cl. 250—27)



1. In a multi-signal transmission system including an intelligence signal generator, means for sampling the intelligence signal from said generator at a definite frequency and for a preselected time interval less than said frequency

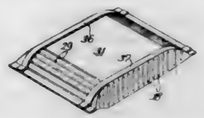
comprising a timing signal generator providing periodic positive timing pulses having a frequency equal to the frequency at which said intelligence signal generator is to be sampled and having a duration substantially equal to the desired duration of the sample, first and second electron tubes each having a cathode, a control grid and an anode element, a resistive element between each tube cathode and reference ground, means for applying a positive working voltage between the anode of the first tube and reference ground, conductor means connecting the cathode of the first tube to the anode of the second tube, circuit means for applying the signal from said intelligence signal generator to the grid of the first tube, circuit means for applying the periodic positive timing pulses to the grid of the second tube, and output circuit means connected across at least a part of the cathode resistive element of the second tube.

2,533,553
TRAILER STEERING MECHANISM
George A. Burns, Muskegon, Mich.
Application March 6, 1947, Serial No. 732,684
5 Claims. (Cl. 280—33.55)



1. A trailer having a front axle with steerable wheels mounted at each end thereof, a horizontal plate pivotally mounted at its rear edge on a horizontal lateral axis to the axle, stretcher plate supporting members secured to and extending forward from the ends of the horizontal plate, a stretcher plate secured to and extending between the forward ends of the supporting members, a tongue pivotally attached on a vertical axis to the horizontal plate extending forwardly therefrom and adjacent the stretcher plate, means for holding the tongue slidably adjacent the stretcher plate, the tongue adapted to be pivotally connected at its forward end to an automobile, means for steering the wheels of the trailer on longitudinal movement of the tongue, and means for connecting the steering means to the automobile laterally of the tongue connection.

2,533,554
PACKAGE AND METHOD OF PRODUCING SAME
Oliver M. Byerly, Chicago, Ill., assignor to Walter E. Hausheer, Evanston, Ill.
Application September 21, 1945, Serial No. 617,749
6 Claims. (Cl. 206—46)



2. A water and air impervious container having a commodity sealed therein, said container including a wide sheet and a narrow sheet of thin and impervious metal of foil type, the wide sheet being of channel shape having marginal sealing portions along the channel side edges, the narrow sheet including the side marginal edges thereof being of a width substantially equal to the transverse dimension of the channel plus the widths of said marginal sealing portions of the wide sheet, the narrow sheet being disposed over said channel with its side marginal edge portions disposed against the marginal sealing portions of the wide sheet at the exterior of the container, an impervious thermoplastic material between the said marginal edge portions and sealing said edge portions together throughout their lengths in substantially metal-to-metal contact, said sealed marginal edge portions being folded upon the adjacent exterior surface of the container and said sheets at opposite ends of the channel being sealed together in substantially metal-to-metal contact from end to end thereof transversely of the channel by an impervious thermoplastic material, a plurality of rigidifying corrugations in the sides of the channel of the wide sheet and extending transversely of the length thereof between said marginal sealing portions and the bottom of the channel, transversely extending corrugations across the bottom of the channel, and a plurality of corrugations in the narrow sheet extending transversely of its length between said sealing portions of the wide sheet.

2,533,555
WEIGHTED DRILL FOR CUTTING POSTHOLES IN ROCK
Joe J. Canales, Uvalde, Tex.
Application May 23, 1949, Serial No. 94,768
2 Claims. (Cl. 255—63)

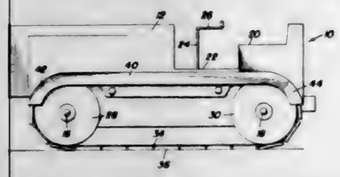
2. A hand-type rock drilling implement of the class shown and described comprising an elongated weight provided intermediate its ends with an outstanding notched flange, said weight being provided in opposite ends with axial sockets, said sockets being of polygonal cross-sectional form, a tool having a polygonal head fitting into one socket, a collar mounted on and surrounding the shank of said tool and abutting said head, a handle, a head secured on one end of said handle, said head being of polygonal form in cross-section and fitting into the remaining socket, a collar surrounding said handle and resting against said head, and elongated nut-equipped bolts having their end portions connected with the respective collars and paralleling and externally embracing said weight and having intermediate portions fitted into the notches in said flange.

2,533,556

TOY TRACTOR HAVING IMPROVED TRACK GUIDING MEANS

Ernest D. Cayce, Santa Barbara, Calif.

Application September 19, 1949, Serial No. 116,573
3 Claims. (Cl. 46—219)



1. A toy tractor comprising an elongated body member having forward and rear transversely extending openings therein, a forward axle received in said forward opening, a rear axle received in said rear opening, a forward wheel on the forward axle, a rear wheel on the rear axle, an endless belt trained about said wheels, traction means on said belt, and means carried by said body member for guiding the belt during rotation thereof and for also retaining said belt on said wheels, said last mentioned means including an elongated channel shaped member secured to one side of said body member and having curved end portions embracing said wheels, said channel shaped member constituting forward and rear fenders.

2,533,557

COATED, NONFIBROUS REGENERATED CELLULOSE SHEET WRAPPING MATERIAL AND PROCESS OF MAKING SAME

Aurelius Franklin Chapman, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 15, 1949, Serial No. 87,852
8 Claims. (Cl. 117—73)

8. The process of producing coated, transparent, sheet wrapping material which comprises impregnating gel regenerated cellulose film with an aqueous softening bath containing from 0.05% to 10% by weight of a water-soluble, partially condensed guanidine-urea-formaldehyde resin obtained by reacting formaldehyde, guanidine and urea in the proportions of from 1 to 4 mols of formaldehyde and from 0.02 to 0.25 mol of guanidine per mol of urea, drying the impregnated film and thereafter coating the impregnated film with a protective composition from the group consisting of moistureproofing and semimoistureproofing coating compositions for regenerated cellulose containing from 0.1% to 10.0% by weight, based on the solids content of the composition, of maleic acid.

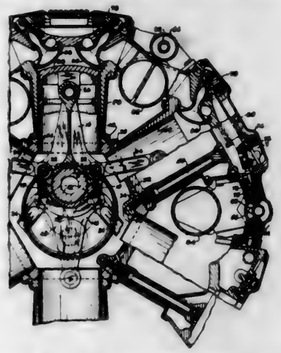
2,533,558

INTERNAL-COMBUSTION ENGINE AND CONNECTING ROD STRUCTURE THEREFOR

Roland Chilton, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application June 28, 1946, Serial No. 680,189
1 Claim. (Cl. 121—120)

In an internal combustion engine; a crankshaft having a crankpin; a row of six radially disposed engine cylinders symmetrically spaced about said crankshaft; pistons slidable in said cylinders; a pair of master connecting rods offset side-by-side on said crankpin and each connected to one of said pistons diametrically opposed to the other master connecting rod piston; and two pairs of auxiliary connecting rods, one pair for each of said master connecting rods, the auxiliary connecting rods of each pair being pivotally connected to their master connecting rod on opposite sides of the shank of their master



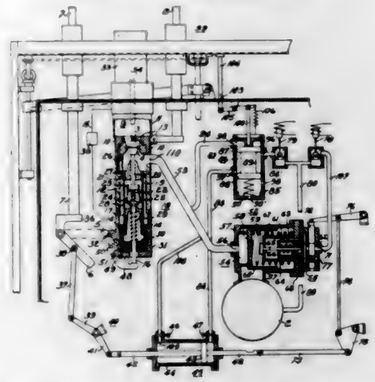
connecting rod and being connected to the pistons disposed immediately adjacent to and on opposite sides of their master connecting rod piston, the three pistons served by one master connecting rod and its pair of auxiliary connecting rods being offset relative to the other three pistons to an extent equal to said master connecting rod offset.

2,533,559

PNEUMATIC INTERLOCKING DEVICE FOR PREVENTING IMPROPER CLOSING OF A CIRCUIT BREAKER

John F. Chipman, South Weymouth, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application January 18, 1949, Serial No. 71,506
14 Claims. (Cl. 200—82)



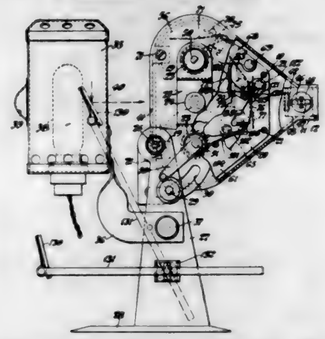
1. In a switching arrangement, the combination of a switching means for opening and closing an electric circuit, pressure operated means for actuating said switching means, a source of fluid under pressure, a conduit for supplying fluid under pressure from said source to said pressure operated means, a first valve for controlling the admission of fluid under pressure from said source to said conduit, a second valve arranged in said conduit between said first valve and said pressure operated means, means for biasing said second valve to the open position thereof, means for initiating closing of said second valve, closing means distinct from said initiating means and operative upon operation of said initiating means for maintaining said second valve closed, said closing means being actuated by the fluid under pressure in the section of said conduit situated between said first and second valves for maintaining said second valve in the closed position thereof, said second valve preventing fluid under pressure from said conduit from acting upon said closing means of said second valve prior to operation of said initiating means.

2,533,560

MOTION-PICTURE PROJECTOR HAVING CAM OPERATED INTERMITTENT FILM FEED AND SHUTTER

Francis T. Coffey, Sr., Los Angeles, Calif.

Application December 7, 1946, Serial No. 714,719
9 Claims. (Cl. 88—18)



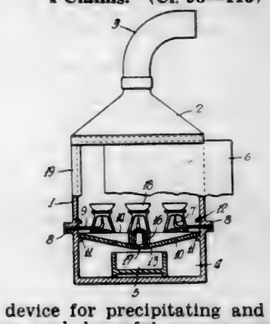
9. In a motion picture projector: a casing having an opening in one of its sides; a magnifying lens adjustably mounted in said opening; means in said casing for supporting a strip of motion picture film; a light source adapted to project a beam of light through said film; a guide member through which said film is adapted to travel, said guide member having an aperture; shutter means movable intermittently between said aperture and said light source across the beam of light for interrupting the passage of said light beam through said aperture and said film during the feeding of said film and to permit the passage of said light beam through said aperture when each frame of said film is at rest in alignment with said aperture; a feed roller associated with said guide member and across which said film is adapted to pass, said roller having teeth engageable in spaced apertures in said film and adapted upon rotation of said roller to advance said film to align successive frames of said film with said aperture; a ratchet-wheel coaxial with and rotatable with said roller; a lever pivoted in said casing and movable toward and away from said ratchet-wheel; a pawl pivoted on said lever and engageable with successive teeth of said wheel for intermittently advancing said roller; a rotatable cam for pivoting said lever; and a check-pawl actuated by said cam and engageable with said ratchet teeth for preventing retrogressive movement of said ratchet-wheel; said check-pawl being operatively connected to said shutter means for oscillating the same simultaneously with the advancing of the roller.

2,533,561

DEVICE FOR PRECIPITATING AND DRAWING OFF ANNOYING AND HARMFUL VAPORS AND GASES DEVELOPING DURING BOILING OF ACIDS

Gottfried Deibel, Dresden, Germany

Application September 17, 1949, Serial No. 116,231
In France March 15, 1948
4 Claims. (Cl. 98—115)



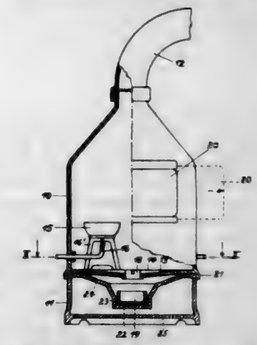
1. A device for precipitating and drawing off annoying and harmful vapors and gases developed during boiling of acids and the like, said device comprising a casing having a discharge plate therein adjacent the bottom thereof and spaced from said bottom and having a hood at the top thereof, said hood having an outlet pipe affixed thereto, said discharge plate having a horizontal top plane surface with a central discharge opening therein, and having a plurality of draining channels in the top surface thereof, said channels sloping downwardly from the outer periphery of said discharge plate to said discharge opening and being in communication therewith, and a receiver beneath said discharge plate beneath said discharge opening therein for the condensates precipitating and running down the inner wall of said hood and the draining channels in said discharge plate.

2,533,562

DEVICES FOR PRECIPITATING AND DRAWING OFF ANNOYING AND HARMFUL VAPORS AND GASES

Gottfried Deibel, Dresden, Germany

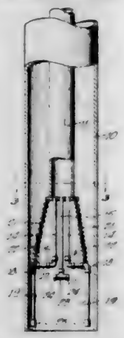
Application September 17, 1949, Serial No. 116,232
In Germany April 26, 1949
2 Claims. (Cl. 98—115)



1. A device for precipitating and drawing off annoying and harmful vapors and gases developed during boiling of acids and the like, said device comprising a casing of acid-proof ceramic material having a discharge plate at the bottom

thereof and having a hood portion at the top thereof, said hood having an outlet pipe affixed thereto, and said plate having a central opening therethrough, and having a horizontal top plane surface and a generally pyramidal lower surface having inclined channels through the upper surface of said plate, the bottoms of said channels extending along said pyramidal lower surface, said channels leading from adjacent the periphery of said plate to said opening, a base supporting said casing, and having an opening in the side wall thereof, a removable receiver in said base insertable through said opening and a channel shaped support in said base to carry and position the receiver beneath said central opening in said discharge plate.

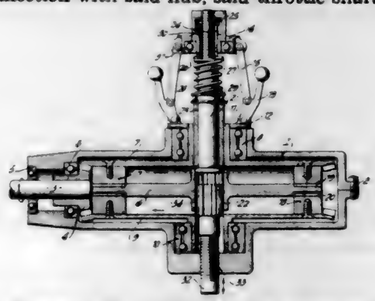
2,533,563
WELL ACTIVATOR
William D. Dobbs, Palestine, Tex., assignor to Tide Water Associated Oil Company, Tulsa, Okla., a corporation of Delaware
Application December 11, 1947, Serial No. 791,100
3 Claims. (Cl. 166—20)



2. A sand underreamer for a well including a tubular body adapted to be lowered through the casing of said well, a plurality of rigid pipes below and in communication with said body through which fluid under pressure is forced by way of said body into said well, a tubular extension connected to and rotatably depending from each of said pipes, spring means for urging said tubular extensions normally into angular relationship with said casing but constrained by the walls of the latter to lie substantially parallel therewith, said spring means being effective to expand said tubular extensions when the latter are moved out of confinement in said casing.

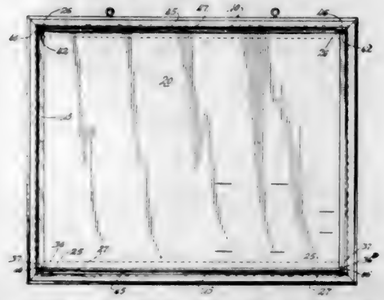
2,533,564
ROTATIONAL SPEED GOVERNOR
Thomas W. Dwelle, Visalia, Calif.
Application May 23, 1949, Serial No. 94,819
3 Claims. (Cl. 74—404.5)

1. A rotational speed governor comprising a housing, a pair of ring gears journalled in said housing and spaced from each other, a drive shaft journalled in the housing, a pinion on the drive shaft engaging both of said gears whereby the gears are driven in opposite directions, a clutch disc mounted between said gears and frictionally engaging either of said gears, a flyball governor mounted on one of said gears and driven thereby, a control shaft rising from said clutch disc, means operatively connecting the governor and the control shaft whereby operation of the governor will move said shaft longitudinally to engage either of said gears with the clutch disc, said clutch disc having a splined hub, a throttle shaft, said throttle shaft having a splined connection with said hub, said throttle shaft be-



ing threaded in the housing and movable into or out of the housing on rotation of said throttle shaft.

2,533,565
DISPLAY DEVICE HAVING REMOVABLE NONRIGID PANEL
John M. Eichelman, Downers Grove, Ill.
Application July 3, 1948, Serial No. 36,859
6 Claims. (Cl. 40—125)



1. A display device comprising, in combination, an open rigid border frame having facing grooves in at least two of its opposite sides; at least one pair of clips, at least one clip of a pair being resilient relative to the other and each clip having a hook portion disposed within the opening of the frame and an anchoring portion extending into a frame groove; a relatively stiff backing board fitting between and into the grooved sides of the frame over the anchoring portion of both clips to wedge those portions into the grooves and thereby retain the clips in place on the frame; and a fabric display panel provided with means cooperating with the hook portions of the clips to hold the panel under tension in the frame.

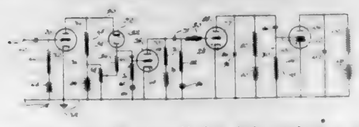
2,533,566
HIGH-FREQUENCY HARMONIC ANALYZER
Mahmoud El Shishini and Mohamed Abdu Hassan El-Said, Giza, Cairo, Egypt
Application November 5, 1946, Serial No. 707,874
In Great Britain January 11, 1946
9 Claims. (Cl. 175—183)

2. A wave analysing circuit comprising a first electron discharge device initially polarized such that its output current bears at any instant a logarithmic relationship to its input voltage and having a pair of input and a pair of output terminals, a second electron discharge device initially polarized such that its output current bears at any instant a logarithmic relationship to its

input voltage and having a pair of input and a pair of output terminals, a resistor, means connecting a complex wave potential for analysis to said input terminals of said first electron discharge device, means connecting a sinusoidal wave potential to said input terminals of said second electron discharge device, means connecting one of said output terminals of each electron discharge device to one end of said resistor, means connecting the other of said output terminals of each electron discharge device to the other end of said resistor, a third electron discharge device initially polarized such that its output current

bears at any instant an exponential relationship to its input voltage, said third electron discharge device having input and output terminals, means connecting one input terminal of said third electron discharge device to one end of said resistor, means connecting the other input terminal of said third electron discharge device to the other end of said resistor, and means for adjusting said resistor such that the output current of said third electron discharge device is proportional to the instantaneous multiplication of said complex wave for analysis into said sinusoidal wave.

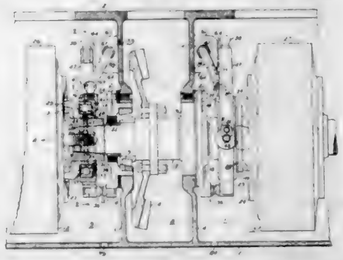
2,533,567
ELECTRONIC CONTROL CIRCUITS
Lowell H. Erickson, Denver, Colo., assignor to Marcellus S. Merrill, Denver, Colo.
Application November 15, 1947, Serial No. 786,214
11 Claims. (Cl. 315—227)



1. An electronic circuit for triggering a stroboscopic device in response to a cyclic control voltage including amplifying means for amplifying said control voltage, means including rectifying means coupled to said amplifying means for producing voltage waves of one polarity, differentiating means coupled to said last mentioned means for differentiating said waves, amplifying means coupled to said differentiating means for amplifying the differentiated waves, means including a grid controlled gas tube coupled to said last mentioned amplifying means and adapted to be triggered in response to positive portions of the amplified voltage waves for producing voltage pulses, differentiating means coupled to said gas tube, and an electronic stroboscopic device coupled to said last mentioned differentiating means and triggered by said differentiated voltage pulses.

2,533,568
CLUTCH BEARING LUBRICATION
Douglas W. Erskine, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application November 26, 1947, Serial No. 788,173
11 Claims. (Cl. 184—11)

1. In a clutch installation for motor vehicles of the type in which a transmission housing comprises a wet compartment enclosing transmission gears operative to splash lubricant from a lower into an upper part of said wet compartment, and a dry compartment enclosing a friction clutch and horizontally movable bearing means of an actuating mechanism for said clutch, the combination of a flexible lubricant conduit having an upper end connected in lubricant receiving relation with said upper part of said wet compartment, and a lower end connected in lubricant delivering relation with said bearing means and



in such relation to said upper end of said conduit that part of the lubricant which is splashed into said upper part of said wet compartment and which enters said flexible conduit at said upper end thereof may flow by gravity to said bearing means, and fluid flow check means associated with said flexible conduit, said fluid flow check means being operative to restrict the flow of lubricant through said conduit substantially to the lubrication requirements of said bearing means.

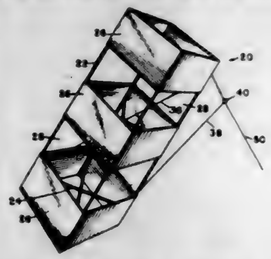
2,533,569
CALCULATOR
Jovino A. Espinola, La Vega, Dominican Republic
Application December 12, 1946, Serial No. 715,763
1 Claim. (Cl. 235—87)

A calculating device comprising a barrel having a longitudinally extending window, a cylinder within said barrel, said cylinder having sections of lesser diameter bearing the columns of a multiplication table, sections of intermediate diameter at either side of said sections of lesser diameter, and sections of greater diameter between adjacent pairs of said sections of intermediate diameter and bearing on said barrel to support said cylinder coaxially and rotatably therein, and a plurality of tabs, each supported over a column of said multiplication table on a pair of said sections of intermediate diameter and rotatable thereon to expose or conceal said table to view through said opening.

2,533,570
BOX KITE
William M. Foy, Minneapolis, Minn.
Application April 30, 1947, Serial No. 744,949
3 Claims. (Cl. 244—153)

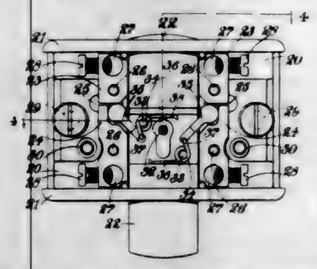
1. A box-kite comprising longitudinal corner struts, three spaced apart bands secured around the longitudinal struts forming flying surfaces and two spaced apart open areas in the kite, one band secured at the upper end of the longitudinal struts, a second band secured to the midsection of the longitudinal struts and the third

band of cloth secured to the lower end of the longitudinal struts, the ratio between the total area of the flying surfaces of the kite to the total open area of the kite being 3 to 2 a plurality of pairs of blocks secured to each of the longitu-



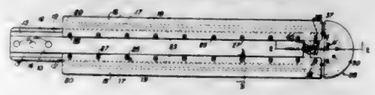
dinal struts forming sockets thereon, a plurality of pairs of diagonal struts, the ends of each pair of diagonal struts being notched for engagement in the sockets on the longitudinal struts, the diagonal struts maintaining the flying surfaces of the kite in fixed relation with each other.

2,533,571
ROCKER-ARM SNAP SWITCH
Francis Cecil Fuke, Leatherhead, England, assignor to British Mechanical Productions Limited, Leatherhead, England, a British company
Application December 1, 1945, Serial No. 632,155
In Great Britain May 30, 1944
1 Claim. (Cl. 200—67)



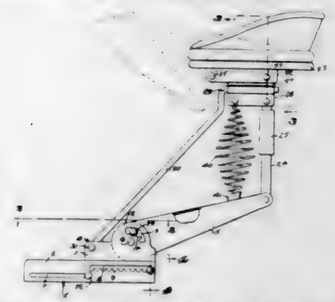
An electric snap-action switch comprising a base, two contacts fixed to the base with a gap between them, a switch operating plunger movable in a rectilinear path between two limiting positions in guides provided on the base, a movable contact element in the form of a rocking arm one end of which has a floating bearing in a housing provided in part by one of the fixed contacts and in part by the other fixed contact and a torsion spring carried by the plunger for bodily movement therewith having a coiled eye with two arms extending therefrom, the eye fitting over a locating pin in the plunger with one spring arm attached to the other end of the movable element and the other spring arm engaging a reaction surface on the plunger, the arrangement being such that on initial movement of the plunger from one limiting position towards the other limiting position the element will be rocked about the bearing end aforesaid and the spring will be loaded until a dead-centre position of the element is reached and passed when the movement of the plunger to the other limiting position will be completed by the spring and the bearing end of the element will be moved by a sliding motion under the action of the spring in a direction across the gap so that in one limiting position of the plunger the bearing end of the element abuts on both fixed contacts and in the other limiting position it abuts on only one of the fixed contacts.

2,533,572
MINING MACHINE
Frank L. Fuike, Terre Haute, Ind.
Application September 25, 1946, Serial No. 699,124
8 Claims. (Cl. 262—33)



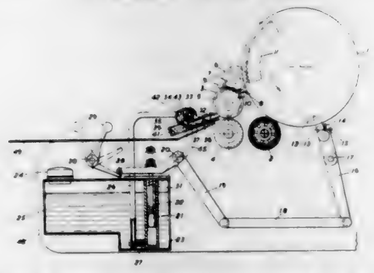
1. A cutter bar for use with a cutting machine and endless cutting chain, comprising; the combination of a supporting bar having the rearward end thereof adapted to be connected to a cutting machine, and a channel guideway extending longitudinally along the lateral edges of said bar and around the forward end thereof to support an endless cutting chain, said guideway being adjustably secured to said bar for longitudinal movement relative thereto to adjust the tension of the chain, and the longitudinally extending sides of said guideways being further adjustably secured to said bar for tiltable movement relative thereto to vary the width of the longitudinally extending portions of said guideway.

2,533,573
TRACTOR SEAT HAVING SPRING MOUNTING
Charles Gabel, Hawkeye, Iowa
Application August 19, 1947, Serial No. 769,428
5 Claims. (Cl. 155—51)



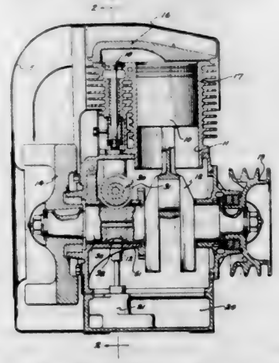
2. A tractor seat comprising a base adapted to be secured to a tractor, said base including a stationary lower section and a movable upper section having curved openings formed therein, the wall of the opening at one side of the upper sections having notches, means for securing the upper section in various positions of adjustment longitudinally of the lower section, a seat including a lower plate, a pair of spaced flanges secured to the plate, a coupling pivotally mounted between the flanges, means for securing the flanges and seat to the coupling against pivotal movement, linkage connected with the coupling and upper section of the base, pivotally connecting the seat to the base, a pin carried by the linkage and engageable with said notches securing the linkage in various positions of adjustment, and a spring disposed between the coupling and linkage for normally holding the seat in a horizontal position.

2,533,574
MOISTENING MECHANISM FOR DUPLICATING MACHINES
Hugo Gerlach, Hendon, London, England, assignor to Block & Anderson Limited, London, England, a British company
Application March 20, 1946, Serial No. 655,760
In Great Britain January 28, 1946
10 Claims. (Cl. 91—48)



1. In a duplicating machine, means for applying solvent liquid to copy sheets comprising a roller against which said sheets are pressed during their delivery into the machine, a flat capillary pad, a rigid tray supporting said pad, stationary guide means for slidably mounting said tray and the supported capillary pad therein whereby such pad is inclined upwardly towards said roller and is movable in its own plane to present its uppermost longitudinal edge in abutting relationship to the surface of said roller, and means for resiliently urging said tray and the supported pad in the plane thereof towards said roller.

2,533,575
INTERNAL-COMBUSTION ENGINE
Earl Ginn, North Muskegon, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia
Application June 28, 1945, Serial No. 601,982
2 Claims. (Cl. 123—195)



1. In a single cylinder internal combustion engine constructed and arranged compactly to minimize weight and overall engine size, a crankcase structure, a crankshaft supported by said crankcase structure, one of said means for supporting said crankshaft comprising a bearing support projecting from a side wall of the crankcase, extending normal to the crankshaft axis and carrying a bearing which journals one end of the crankshaft, an actuating shaft supported by the crankcase structure to extend substantially normal to the crankshaft and overlying the aforesaid bearing support, cams and other driving means carried by said actuating shaft for actuating engine valves, a governor and a lubricant pump, a gear secured to the actuating shaft, said crankshaft bearing having an opening through which said gear projects, the crankshaft portion lying within the said bearing formed with gear teeth which are enmeshed directly with the actuating shaft gear, a lubricant pump driving cam on said actuating shaft overlying the crankshaft bearing support, and a pump actuating means comprising a reciprocating shaft supported in said crankshaft bearing support, said lubricant pump located beneath the aforesaid crankshaft bearing support.

2,533,576
ROTARY KNOCKOUT MECHANISM FOR PIG-CASTING MACHINES
Leo A. Gionet, Duluth, Minn., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 24, 1947, Serial No. 793,595
4 Claims. (Cl. 22—62)

3. In a pig-casting machine including spaced traveling chains, a shaft having sprockets thereon around which the chains are trained and molds extending between the chains, the combination therewith of pig-dislodging means comprising a member secured to the shaft between the sprockets, a plurality of pivots spaced circumferentially of said member and a plurality of hammers of different lengths journaled on each pivot whereby, on rotation of the shaft, the hammers fall forward on the descending side of the sprockets and strike the molds successively.

2,533,577
CARD BOX
Paul S. Godfrey, Wauwatosa, Wis., assignor, by mesne assignments, to Bernard E. Sheras, Chicago, Ill.
Application April 14, 1948, Serial No. 20,971
2 Claims. (Cl. 206—1)

2. In a box adapted to receive a pack of cards, a flat bottom by which said pack is supported with the cards in superposed relation, side and end walls defining a relatively shallow card receiving compartment, a cover for said compartment, a passage positioned in one of said side walls having the lower edge thereof substantially flush with the upper surface of said flat bottom, a support having flat upper and lower surfaces

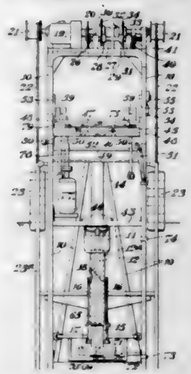
for raising cards, said support positioned within said card receiving compartment and resting upon the bottom thereof, an operating member positioned at one edge of said support and extending through said passage with the bottom surface thereof in substantial contact with the lower edge of said passage, said card raising support having a cut away portion in a free marginal corner of said support positioned oppositely to the edge on which said operating member is located whereby the support may be tilted about the lower edge of said passage as a pivot to render accessible and to facilitate grasping and removal of cards positioned within said compartment.

2,533,578
WATER LEVEL INDICATOR
John R. Comersall, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application December 4, 1946, Serial No. 714,045
1 Claim. (Cl. 73—334)

In the combination of a liquid container having a window-aperture in the wall thereof and a window-piece of light-transmitting material in said aperture, the improvement wherein said window-piece has a thin edge and said aperture of said container has a ledge extending entirely around said aperture, outward from the inner surface of the wall, for abutting said thin edge and thereby supporting said window-piece against outward displacement in a position in which its inner face is substantially flush with the inner surface of the container, and wherein a body of sealing material fills the space between the edge of said window-piece and the edge of said aperture, the inner surface of said sealing material lying substantially flush with the inner surface of said window-piece and container wall.

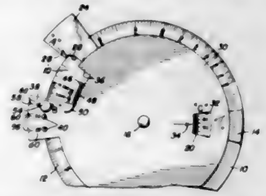
2,533,579
METHOD OF AND APPARATUS FOR THE FORMATION OF CONCRETE PIPES
Nelson E. Gowing, Wombourne, Wolverhampton, England
Application July 22, 1949, Serial No. 106,166
In Great Britain December 24, 1948
17 Claims. (Cl. 25—36)

3. Concrete pipe making machine comprising a supporting structure, a vertical shaft carried by said structure, a piston on the upper end of said shaft, means for rotating said piston, means for moving said piston carried by said shaft axially through a vertical mould supported by the structure, said axial movement comprising an upward movement from the bottom of the mould to the top for pipe formation and a return downward movement after formation, packer blades on said piston, means for maintaining said blades protuberant of the piston wall when said piston travels from the bottom of the mould upwardly for pipe formation, automatic means retracting said blades to within the piston diameter and operative when said piston rises above the top of the



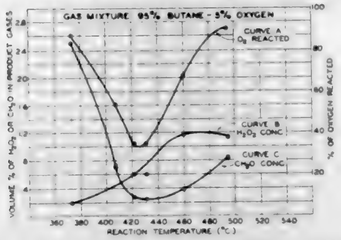
mould, said retracting means maintaining said blades within the piston diameter during the piston return from the top of the mould downwardly, the axial speed on return being a a faster rate than the axial pipe forming speed.

2,533,580
CALCULATOR
Elijah F. Hall, Reidsville, N. C.
Application September 17, 1948, Serial No. 49,784
1 Claim. (Cl. 235—88)



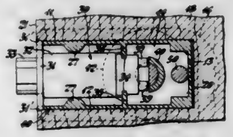
A calculator comprising a base having on one face an annular row of indicia, an intermediate disc mounted on the base to rotate in concentric relation with the annular row of indicia on the base, said intermediate disc being of lesser diameter than the annular row of indicia, a radial tab on the intermediate disc overlying the annular row of indicia on the base, said tab bearing an index mark for cooperation with said annular row of indicia, an arcuate row of indicia on the intermediate disc spaced inwardly from the periphery thereof and lying concentric with the annular row of indicia on the base, a top disc mounted on the base to rotate in concentric relation with the intermediate disc, said top disc having a window therein through which a group of indicia of the arcuate row of indicia may be viewed, an index mark on the top disc for cooperation with the indicia visible through the window, a radial tab on the top disc overlying the annular row of indicia on the base, an arm mounted on the base to rotate in concentric relation with the annular row of indicia, said arm carrying an index mark which cooperates with the annular row of indicia on the base and means adjustably coupling the tab on the top disc with the arm to cause the arm to move in unison with the top disc.

2,533,581
HYDROGEN PEROXIDE BY THE PARTIAL OXIDATION OF HYDROCARBONS
Charles R. Harris, Lockport, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 19, 1946, Serial No. 663,606
10 Claims. (Cl. 23—207)



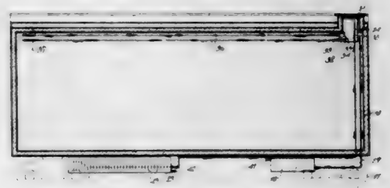
1. In a process for the production of hydrogen peroxide by the vapor phase, non-catalytic reaction of a hydrocarbon selected from the group consisting of propane, n-butane and isobutane with oxygen in a ratio of at least four volumes of said hydrocarbon per volume of oxygen at a temperature within the range in which hydrogen peroxide formation predominates over aldehyde formation, the steps comprising heating said reactants separately to a temperature within said range and then mixing them in a reaction zone so as to effect said reaction at a temperature within said range, and withdrawing product gases from said reaction zone when not more than 90% of the oxygen has reacted.

2,533,582
LOCK
Carl A. Hillgren, Los Angeles, Calif.
Application September 16, 1947, Serial No. 774,235
4 Claims. (Cl. 292—337)



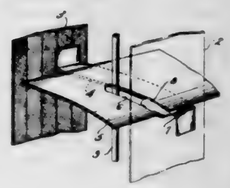
1. A lock adapted for installation on a wooden door having a slot in an edge thereof, including: a box-like casing having one open side and a side wall constituting a first escutcheon plate disposed against one side of the door and engageable with portions of the door adjacent the slot; a spring-actuated latch bolt slidable in said casing and normally projecting from an end thereof; manually operable spindle means rotatable in said casing and adapted upon rotation to retract said bolt into said casing; a second escutcheon plate disposed against the opposite side of the door and adapted to engage portions of the door adjacent the slot, said second plate having bosses projecting from its inner face and engaging the upper and lower surfaces of said slot of said door, the inner ends of said bosses abutting the upper and lower edges of said open side of said casing; clamping means connected between said second plate and said casing and operative to draw said plates toward each other so as to clamp said lock in place in the slot; a first set of thin, rib-like barbs formed integrally with and extending diagonally between said first escutcheon plate and said casing; and a second set of thin, rib-like barbs formed integrally with and extending diagonally between said second escutcheon plate and its said bosses, said first and second sets of barbs cutting into the wood at the upper and lower corners of said slot of said door.

2,533,583
MOBILE REFRIGERATION UNIT
Harold C. Hopp, Des Plaines, Ill., assignor, by mesne assignments, to Frigid Transport Company, Inc., New York, N. Y., a corporation of New York
Application August 12, 1944, Serial No. 549,156
11 Claims. (Cl. 62—5)



1. A mobile refrigeration unit comprising a body mounted on wheels, a refrigerant holder and an absorbent holder supported by said body, an evaporator supported within said body, pipes for conducting liquid refrigerant from the refrigerant holder to the evaporator and vaporized refrigerant from said evaporator to the absorbent holder, means for regulating the flow of liquid refrigerant to said evaporator to maintain a predetermined liquid level therein, and means whereby the refrigerant holder and the absorbent holder may be periodically supplied with fresh refrigerant and absorbent respectively.

2,533,584
VENETIAN BLIND LADDER
Joseph L. Hunter and Thomas Martin, Riverside, Calif., assignors to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware
Application December 20, 1948, Serial No. 66,192
2 Claims. (Cl. 160—173)

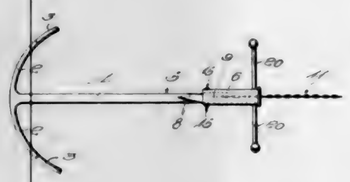


1. In a device for rendering the cross bars of Venetian blind ladders rigid against crumpling and entanglement in the open-end notches of removable Venetian blind slats through which the lift cord is passed, a sheet of substantially rigid but thin material disposed about the cross bars of said tapes, said sheet having a lateral extension at one end thereof extending across said notch and arched upwardly through the same, said extension being shaped to encompass said cord from one side when the slats are tilted to substantially closed position, and thereby confine said cord to said notch.

2,533,585
PROCESS OF MAKING REFRACTORY MOLDS
Fred O. Johnson, Anchorage, Territory of Alaska
No Drawing. Application April 11, 1947, Serial No. 740,977
4 Claims. (Cl. 25—156)

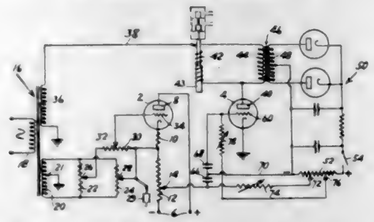
1. A process of making a refractory mold comprising making a mixture of water, plastic clay, cotton fibers, and powdered graphite to the desired molding consistency, shaping the mixture to the desired mold form, drying the mold form, then immersing the mold form in a silicon ester solution devoid of hydrolysis accelerating agents so as to cause the pores of the clay and the fibers and graphite to absorb the solution, then removing the mold form from the solution and subjecting the same to water vapor under conditions of heat and pressure such as to hydrolyze the absorbed solution and cause precipitation therefrom of available silica, then further subjecting the mold form to heat and pressure so as to drive off solvent present in the solution and convert the precipitated silica into silicon dioxide forming a bond between the particles of clay and graphite and the cotton fibers.

2,533,586
ANCHOR
James E. Jones, Morehead City, N. C., assignor of forty-five per cent to Walter Krzeszewski, New Haven, Conn.
Application February 11, 1947, Serial No. 727,778
3 Claims. (Cl. 114—207)



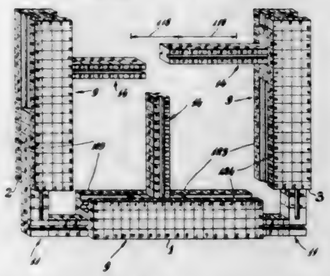
1. In an anchor assembly having a stock and its arms, a shank, fluke and hawser, wherein the stock is permanently remote from the fluke and is mounted on the shank and movable thereon longitudinally of the shank, and wherein the stock and shank are operatively related to cause rotative movements of shank and stock by such relative longitudinal movement within a quarter-turn range to thereby permit the fluke and stock arms to extend in the same direction or in directions approximately at right angles to one another, an assembly of such type including such stock, shank, fluke, stock arms and hawser, said assembly having the fluke and stock arms in constantly spaced relation in opposite end zones of the assembly, said assembly having means carried by the shank for securing the hawser directly to the shank and independent of the stock, the shank and stock having cooperative means to produce the rotative range by camming action with the cooperative means so related that when the assembly is in its extended length position the fluke and stock arms will extend in the same direction and with said arms having the relative right angular directions of extension when the assembly is shifted into its contracted length position.

2,533,587
CONTROLLER
Arthur E. Kittredge, Audubon, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa., a corporation of the United States
Application September 11, 1944, Serial No. 553,615
5 Claims. (Cl. 318—21)



2. In a control device, means providing an alternating potential which is a function of the deviation of a condition from a predetermined set point and which reverses phase with change of direction of said deviation; a thermionic tube having an anode, a cathode and a control grid; an anode-cathode circuit associated with said tube; means providing an alternating current supply to the anode-cathode circuit of said tube; means responsive to said alternating potential providing through said tube a pulsating anode-cathode current having one component approximately proportional to the magnitude of said potential and changing sign with reversal of phase of said potential, and having another component approximately proportional to the integral with respect to time of the magnitude of said potential and also changing sign with reversal of phase of said potential, said two components being concurrently of the same sign, the last mentioned means comprising connections for imposing on said control grid a signal corresponding to said alternating potential and a positive feed-back signal derived from said pulsating anode-cathode current; and means controlled by said pulsating anode-cathode current for reducing said deviation from the predetermined set point.

2,533,588
THREE-DIMENSIONAL LAYOUT EQUIPMENT
Karel Kondor, New York, N. Y.
Application December 17, 1945, Serial No. 635,550
2 Claims. (Cl. 33—174)



1. The combination, in a three-dimensional layout device, of at least one elongated main bar which is rectangular in cross-section and which has longitudinal grooves in both of its smaller sides; with at least one auxiliary elongated bar which is of a lesser width than said main bar and which has a longitudinal groove in one of its narrow sides and at least one triangle, a plurality of L-shaped angular members, and a plurality of T-shaped members, the shanks of said angular and of said T-shaped members as well as those of said triangle being adapted to slide in the grooves of said bars, and said bars as well as said triangle and said angular and said T-shaped members having equally scaled graduations on their outer sides and in their grooves.

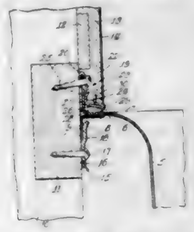
2,533,589
METHOD OF MAKING SEALED GLASS VESSELS
Johan George Kronouer, Eduard Maria Henricus Lips, and Frits Prakke, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 14, 1946, Serial No. 641,183
In the Netherlands August 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 13, 1963
3 Claims. (Cl. 49—81)

1. A method of making a sealed glass vessel for use as the envelope of an electron discharge device for short waves, which comprises preparing a seal-in conductor for the vessel by covering a wire core with a thin layer of a metal of high conductivity, thereafter applying a coating of chromium of such thinness that the chromium will be converted into chromium oxide during the sealing-in operation, inserting the composite conductor in place to be sealed, and sealing it to the glass vessel.

2,533,590
FOLDING PLASTIC BOOK COVER
William R. Kutik, Jr., West Milford, N. J., assignor to Paul P. Clark, Fairlawn, N. J.
Application September 10, 1949, Serial No. 115,045
2 Claims. (Cl. 281—29)

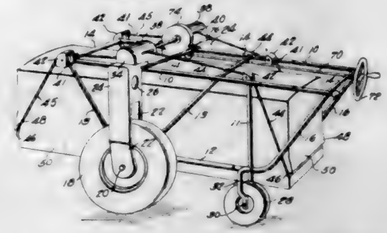
2. A folding cover including, in combination, a spine comprising two superimposed elements, each being a long plate having a series of tongues running along the long sides thereof, each tongue having a substantially semi-circular groove formed therein, the axis of said groove being substantially parallel to said sides and the tongues of each of the plates registering with the tongues of the other with the grooves of registering tongues mutually registered and interfacing to form passageways, means for holding said elements together, and two side covers, each having an edge adjacent to said spine in which is formed a bead extending axially through each of said passageways which are adjacent to said edge and a slot adjacent to each of said registering tongues and providing the cover with clearance therearound, said grooves being proportioned so that each of said passageways is slightly larger than the bead therein whereby said bead acts as a hinge bar for the cover.

2,533,591
BATHTUB MOUNTING
Dwight La Barre, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 26, 1947, Serial No. 744,269
4 Claims. (Cl. 4—173)



1. A tub, basin, and the like, having a lateral rim extending longitudinally along the upper portion thereof adjoining a wall structure; means on said wall structure for supporting the tub; and an upstanding longitudinal lip along the margin of said rim adjacent the wall structure; in combination with expansion means secured to said wall structure and extending horizontally alongside said tub lip, said expansion means comprising a sheet metal strip formed with an elongate inverted V-shaped hair-pin bend defining longitudinally extending back and front sections between which said lip is received, said longitudinal back section being arranged against said wall structure, and said longitudinal front section being adapted to flex with respect to said back section and having a free lower margin; a longitudinal lateral flange extending along the free lower margin of said front section in spaced relation above said tub rim, said flange and rim together defining a longitudinal channel; sealing material in said channel; and attaching means passed through said back and front sections for securing said expansion means to said wall structure, said attaching means being adapted to bodily flex said front section towards said back section to clamp said lip between said sections and to press said sealing material against said tub rim.

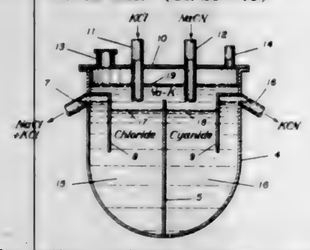
2,533,592
VAULT LOWERING DEVICE
Charles A. Landon, Columbus, Ohio, assignor to The Landon Equipment Company, Columbus, Ohio, a corporation of Ohio
Application September 4, 1946, Serial No. 694,696
6 Claims. (Cl. 254—136)



1. A burial vault lowering apparatus comprising a pair of winding and unwinding units, each unit comprising a drum having oppositely pitched helical grooves in each of which one end of a cable is adapted to be wound, a pair of end members rotatably supporting said drum, a plurality of arms pivotally connected at one end to each

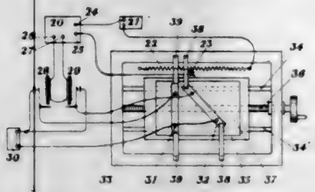
of said end members, a plurality of rollers each rotatably supported at its ends by and intermediate the ends of arms carried by the respective end members and adapted to engage cables being wound in said grooves, and resilient means connecting the other end of each arm to the adjacent end member whereby said rollers are urged into engagement with the cable being wound on said drum, and common means for driving both of said drums.

2,533,593
CATION EXCHANGE PROCESS
Charles H. Lemke, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 11, 1948, Serial No. 7,585
13 Claims. (Cl. 23—79)



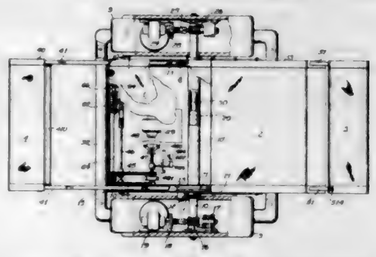
1. The cation exchange process which comprises simultaneously contacting a body of a molten alloy of two metals with two separated molten masses, one containing a compound of one of the metals of said alloy and the other a compound of the other metal and a different anion, whereby said compounds react with said alloy to form molten cation exchanged products, and removing said products from contact with the alloy.

2,533,594
DEVICE FOR STUDYING THE CHARACTERISTICS OF A PHENOMENON
Robert P. Leroy, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, an organized public establishment of France
Application August 5, 1947, Serial No. 766,266
In France August 5, 1946
5 Claims. (Cl. 346—33)



1. In a device for measuring the unknown value of a physical entity capable of being a variable in an electric circuit and modifying the curve of variation of a characteristic of the current in said circuit when another variable of said electric circuit varies, an electric circuit, a variable element in said circuit, means to insert in said circuit the physical entity to be measured, means to vary the variable element in said circuit, detecting means inserted in said circuit, and capable of detecting predetermined values of the hereinbefore mentioned characteristic of the current, a table of reference, two marking devices coacting with said table and constituted by a marking blade, both blades having different angular directions relative to the table, means for giving a relative displacment to the table and the marking devices according to the variation of the variable element in the circuit, and means controlling the marking devices and controlled by said detecting means.

2,533,595
RECLINING CHAIR
Frank J. Luketa, Seattle, Wash.
Application June 20, 1947, Serial No. 755,835
13 Claims. (Cl. 155—105)



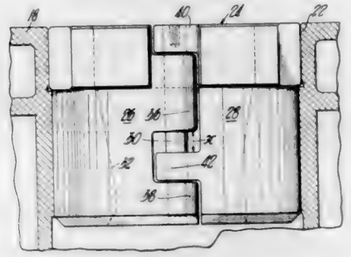
1. In a chair, an auxiliary body-supporting element, a support therefor whereon the auxiliary body-supporting element is tiltably mounted upon a transverse axis offset from the gravity axis of said element, a ratchet segment and a ratchet dog normally engaged therewith, one carried by the auxiliary body-supporting element and the other by the support, to retain said element in selected tilted positions, a device guided upon said element for movement to engage and disengage said dog from said ratchet segment, and two actuators operatively connected to said device to shift the same, one being disposed for manual operation, and the other for automatic engagement upon bodily shifting of the auxiliary body-supporting element, thereby disengaging the dog from the ratchet segment.

2,533,596
ATTACHMENT FOR OIL BURNERS
Tadeus J. Maciejewski, Blackstone, Mass.
Application April 30, 1948, Serial No. 24,265
2 Claims. (Cl. 158—49)

1. In an oil burning furnace, a pair of burners that are provided with fuel holding chambers including liquid levels, a supply tank, a main supply conduit leading from the tank, a pair of supply conduits branching from the main supply conduit and connected to the burners below the liquid levels of the chambers, a valve controlling the flow of fluid through the main supply conduit, T-sections interposed in each of said pair

of conduits, each of said T-sections including a depending substantially vertical leg, a four-way pipe section including a substantially vertical portion and a substantially horizontal portion, further conduits connecting the horizontal portion of said four-way pipe section to the vertical legs of said T-sections, a container attached to and depending from the lower end of the said vertical portion, and a valve disposed in the said vertical portion for controlling the flow of fluid through the horizontal portion, said pair of supply conduits sloping downwardly from the burners and said four-way pipe section being located below the burners.

2,533,597
MASTER BUSHING FOR ROTARY OIL WELL DRILLING MACHINES
August R. Maier, Oil City, Pa., assignor to Oil Well Supply Company, a corporation of New Jersey
Application March 4, 1947, Serial No. 732,166
4 Claims. (Cl. 255—23)

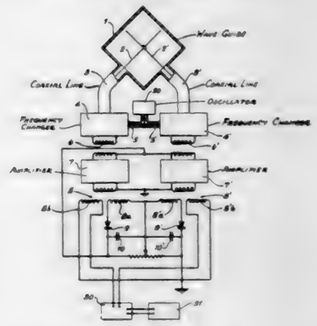


1. A master bushing for the rotary table of an oil-well drilling machine, comprising a pair of generally semicylindrical complementary sections, each section having a pair of hinge lugs with aligned holes drilled therethrough, the lugs of each section interfitting with those of the other, a pintle extending through said holes, the spacing between the lugs of one section being greater than the height of the lug of the other section disposed therebetween to permit said other section to be raised a predetermined distance relative thereto, said sections having interlocking portions on the side opposite said lugs and pintle, said interlocking portions each including a member on one section having a recess open at the top and a downwardly projecting member fixed on the other section and adapted to penetrate said recess when said other section is in lowermost position by a distance less than said predetermined distance, whereby the interlocking portions are fully disengaged when said other section is raised said predetermined distance.

2,533,598
DISSOLUTION OF REGENERATED CELLULOSE WITH UREA-ALKALI-STANNATE SOLVENT
Charles L. Mantell, Manhasset, N. Y., assignor to United Merchants and Manufacturers, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application May 10, 1949, Serial No. 92,514
10 Claims. (Cl. 8—116.2)

1. Solvent for regenerated cellulose comprising an aqueous solution of about 8 to about 19% by weight of an alkali metal hydroxide selected from the class consisting of sodium hydroxide and potassium hydroxide, about 1 to about 20% by weight of urea, and alkali metal stannate selected from the class consisting of sodium stannate and potassium stannate in an amount equivalent to from about 1.3 to about 2.2% by weight of stannic oxide.

2,533,599
RADIO RECEIVING SYSTEM
Georges Robert Pierre Marié, Paris, France, assignor to Societe Francaise Sadir-Carpentier, a corporation of France
Application February 18, 1948, Serial No. 9,171
In France March 21, 1947
6 Claims. (Cl. 343—100)

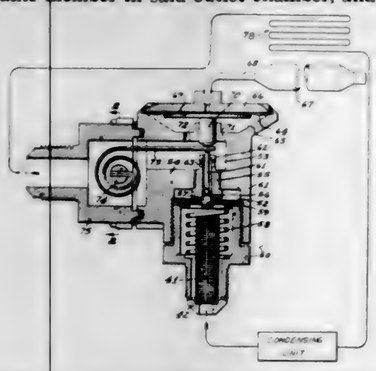


1. Apparatus for the reception of ultra short waves consisting of two high frequency waves rectilinearly polarized in planes at right angles to one another and amplitude modulated in a manner such that the maximum values of one wave correspond to the minimum values of the other, the combination of means for producing high frequency voltages, one from each of the modulated high frequency waves, means for changing the frequency of said high frequency voltages, a variable gain amplifier for amplifying said voltages of changed frequency, means for detecting said last mentioned voltages, a circuit for adding said detected voltages and connections for applying said added voltages to control the amplification of said variable gain amplifier substantially to compensate for fading effects in said ultra short waves.

2,533,600
REFRIGERANT CONTROL SYSTEM
Harold J. Matteson, Glendale, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Original application April 29, 1941, Serial No. 390,914, now Patent No. 2,363,010, dated November 21, 1944. Divided and this application September 13, 1944, Serial No. 553,883
4 Claims. (Cl. 62—127)

1. In a refrigerant control system: the combination with an evaporator of a thermostatically controlled expansion valve for controlling passage of refrigerant to said evaporator; said valve comprising: a casing having an inlet chamber, and an outlet chamber for connection to the inlet of said evaporator; a partition separating said chambers and having a valve port therethrough; a closure member cooperable with said port for controlling passage of refrigerant through the valve; a fluid pressure motor for operating said closure member in accordance with the tempera-

ture at the outlet of said evaporator; and a bimetallic member in said outlet chamber, and re-



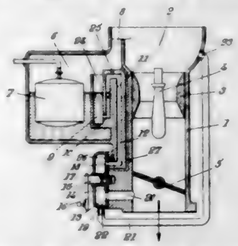
sponsive to the temperature of the refrigerant therein, for modifying the action of said motor.

2,533,601
METATARSAL PAD
Hazel G. McCormick, Palo Alto, Calif.
Application August 9, 1948, Serial No. 43,251
12 Claims. (Cl. 128—166.5)

1. A metatarsus support comprising a soft pad of resilient material adapted to be placed in a position under the metatarsal arch of a foot, means secured to said pad adapted to extend therefrom between an adjacent pair of toes on said foot and a holding member carried by said means adapted to extend over the upper side of at least one of said pair of toes for preventing rearward movement of said pad in direction away from said toes.

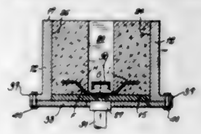
2,533,602
CARBURETING DEVICE
Marcel Louis Mennesson, Neuilly-sur-Seine, France, assignor to Societe Solex, a society of the Republic of France
Application February 27, 1946, Serial No. 650,517
In France February 8, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1965
2 Claims. (Cl. 261—41)

1. A carburation device for an internal combustion engine which comprises, in combination, a main carburetter including an air intake, a constant level chamber communicating with said air intake through a large section passage, an induction pipe to be connected with said engine, and a throttle valve in said pipe, and an auxiliary carburetter for starting the engine from cold including a well provided with a calibrated orifice opening into said constant level chamber below the fuel level therein and with only one air inlet in direct communication exclusively with the space of said constant level chamber above the fuel level therein, a chamber located below said first mentioned chamber, a conduit starting from said well at a point thereof located below the fuel level in said constant level chamber, passing above said level and opening into one wall of said second mentioned chamber, a conduit starting from said induction pipe on the downstream side of said throttle valve and opening into said wall of the last mentioned chamber, a valve member slidable along said wall



adapted either to connect both of said conduits with said last mentioned chamber or to cut off both of them therefrom, a conduit provided with a calibrated orifice for connecting said last mentioned chamber with said air intake, said wall of said last mentioned chamber being provided with an annular groove surrounding the opening of the first mentioned conduit into said wall, and means for connecting said groove with said second mentioned chamber.

2,533,603
BUILDING BLOCK MOLDING APPARATUS
John F. Moran, Brooklyn, N. Y.
Application May 7, 1948, Serial No. 25,623
8 Claims. (Cl. 25—121)

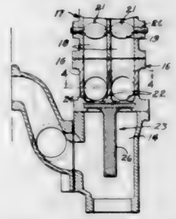


1. In a mold construction for forming multiple-walled building blocks of moldable material and in which the walls are connected by a metallic tie member whose mid-portion is U-shaped in cross section and waist-shaped in plan, comprising an open-bottom form, a shiftable pallet closing the open bottom of the form, a saddle secured to the pallet at its center, said saddle provided with an upwardly-facing socket U-shaped in cross section and waist-shaped in plan for receiving the mid-portion of the tie member and acting to resist lengthwise shifting of the tie member from the saddle and a plunger for moving the pallet through the form.

2,533,604
MANIFOLD CONSTRUCTION
James T. W. Moseley, Clayton, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application August 7, 1947, Serial No. 767,086
3 Claims. (Cl. 257—241)

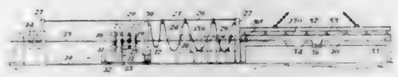
1. In combination, internal combustion engine intake and exhaust manifolds having closely adjacent lower and upper wall portions, respectively, said intake manifold having a fuel receiving riser immediately above said wall portions and arms extending laterally therefrom, and a substantially T-shaped insert of material more

highly heat conductive than said manifold walls seated in said wall portions, the leg of said T presenting a substantial surface to the interior of said exhaust manifold and the cap of said T presenting a substantially smaller surface to the



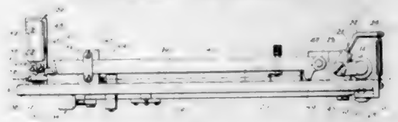
interior of said intake manifold directly beneath said riser and within the inner wall of said intake manifold for vaporizing liquid particles which drop thereon without materially affecting the main body of intake gases.

2,533,605
APPARATUS FOR WELDING SLABS
Paul M. Mueller, Rome, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application October 8, 1945, Serial No. 620,879
3 Claims. (Cl. 29—33)



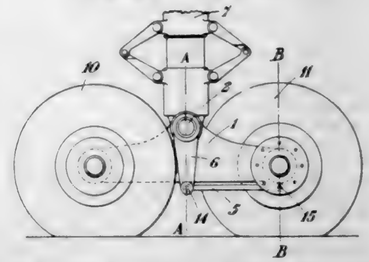
1. In a machine for welding successive slabs into a continuous plate and flash trimming said plate during the uninterrupted movement of such slabs and plate in their processing line, in combination, a vehicle adapted to reciprocate between two substantially fixed points in said line along which said slabs and plate move in endwise relation, a fixed frame on said vehicle, a transom fixed to said frame and extending across said line, a crosshead connected to said frame in movable relation to said transom, said crosshead also extending across said line, clamping jaws respectively connected to said transom and said crosshead, longitudinally extending hydraulic cylinders mounted in said frame, piston rods in said cylinder, a movable frame rigidly connected to said piston rods, a second transom fixed to said movable frame and extending across said line, a second crosshead connected to said movable frame in movable relation to said second transom, said second crosshead also extending across said line, clamping jaws respectively connected to said second transom and said second crosshead, said sets of clamping jaws being respectively adapted to engage the trailing end of said plate and the leading edge of a succeeding slab and to hold the same in endwise abutting relationship, said clamping jaws engaging the trailing end of said plate being so adapted to move said vehicle in the direction of movement of said processing line, means for retracting said piston rods to effect approaching movement between said frames and between said plate and said slab during said welding operation, and means for extending said piston rods upon completion of said welding and trimming and the unclamping of said clamping jaws as the most forwardly point in the movement of said vehicle is reached, and means for returning said vehicle to its point of origin.

2,533,606
WIRE GAUGE
Alfred G. Natzke, New York, N. Y., assignor to Lamar Slide Fastener Corp., New York, N. Y., a corporation of New York
Application August 7, 1946, Serial No. 689,065
10 Claims. (Cl. 33—174)



1. In a mechanism of the character described for gauging the alinement of the head projections and the head recesses of connected embryo scoops, which projections and recesses are produced on opposite sides of a continuous length of wire by deformation thereof, means for longitudinally moving said deformed wire, a first roller means engaging the head projections of said embryo slide fastener elements, a second roller means engaging the head recesses of said embryo slide fastener elements, said respective roller means normally being in lateral alignment and one of said roller means being axially movable with respect to the other, said first and second roller means maintaining a normal positioned relationship as long as said head projections and the corresponding head recesses are centered with respect to one another and becoming relatively displaced by an embryo slide fastener element when said head projections and the corresponding head recesses thereof are not so centered, and lever means operatively associated with at least one of said roller means, said lever means being displaceable from a normal position in response to a relative displacement of said roller means.

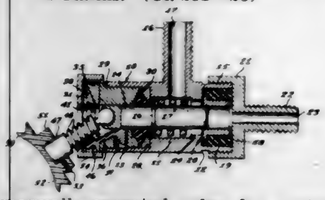
2,533,607
TORQUE EQUALIZING MEANS FOR AIRCRAFT LANDING GEAR BRAKES
Christopher Bernard Vere Neilson, Eagle Brow, Lym, and Robert George Hoare, Warrington, England, assignors to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain
Application August 30, 1948, Serial No. 46,784
In Great Britain June 5, 1947
5 Claims. (Cl. 244—111)



1. In landing gear for an aircraft having an undercarriage leg, a frame pivoted on said leg to rock about an axis transverse to the direction of travel of the aircraft; load-supporting wheels mounted on said frame; wheel brake mechanism including cooperating wheel-carried and frame-carried brake elements for applying wheel-braking force with consequent creation of a moment tending to tilt said frame about said transverse axis; and normally ineffective torque-producing means, actuatable when wheel-braking force is

applied, for applying to said frame a force proportional and in opposition to said moment thereby to counteract said tendency of said frame to tilt.

2,533,608
PNEUMATIC VALVE
Waldo Emerson Newman, Toledo, Ohio
Application June 27, 1947, Serial No. 757,406
4 Claims. (Cl. 251—26)

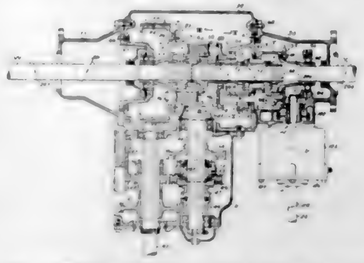


1. A manually-operated valve for controlling the rate of flow of pressure fluid to a fluid-operated device comprising a cylindrical body having a bore in the intermediate portion thereof, counterbores of unequal length, one in each end portion thereof, an annular, internal shoulder in the end of said bore at the shorter counterbore, internal screw threads in the longer counterbore, external screw threads overlying said shorter counterbore, and a conduit coupling projecting therefrom and having a bore communicating with the bore in said body; a cylindrical bushing in said shorter counterbore; a resilient sleeve surrounding said bushing within said counterbore and bonded to said body and said bushing; an end-closure cap threaded onto said external body threads and having a conduit coupling extending therefrom the bore of which communicates with the interior of said bushing at the outer end thereof; a beveled packing ring in the inner end portion of said longer counterbore; an internally-screw-threaded plug threaded into said longer counterbore having an axial bore therethrough of the same size as the bore in said bushing, a concavely beveled inner end facing said beveled packing ring, a cylindrical head with substantially semi-circular, radial slots therein disposed beyond the outer end of said counterbore, a lateral enlargement of said bore inclined inwardly from the outer end of said head, and a radial hole adjacent the inner end of said bore enlargement; a thread block having a groove around its outer edge and a single thread section around its inner edge slidably mounted in a slot in the head portion of said plug and disposed opposite said bore enlargement; a pressure arm mounted in said bore enlargement transversely curved on arcs having a radius substantially equal to the radius of said bore and having at its inner end a projecting knob pivotally received in said radial hole in said plug, and an external groove at its opposite end disposed opposite the groove in said thread block; a garter spring surrounding said thread block and said pressure arm within said groove resiliently urging the outer end of said pressure arm toward said bore; an apertured resilient packing in said longer counterbore between said packing ring and the inner end of said plug; a cylindrical valve plunger extending through the bore in said body, a portion of the bore in said plug, said packing, and a portion of the bore in said bushing and having an external annular shoulder engageable with said packing ring to limit valve-opening movement thereof, and an inclined, radial groove in the end portion thereof received in said bushing; a compression spring surrounding said plunger between said internal body shoulder and said external plunger shoulder urging said plunger away from said bushing and toward the head of said plug; a screw shaft having substantially square screw threads thereon universally connected at its inner end to the end of said plunger within said plug and extending between said thread block and said pressure arm to a position beyond the outer end of said plug head; a knob having a concave outer end fixed to the outer end of said screw shaft to rotate said screw shaft against the thread of said thread block for fine adjustment of said valve and to move said screw shaft away from said thread and imparting a rapid sliding movement to said valve plunger; and an end-closure cap secured over said plug head and having an elongated opening therein for said screw shaft.

2,533,609
PROCESS FOR MANUFACTURING MINUTELY ORIFICED ARTICLES
Terence M. Nolan and Stephen Gasper, Buffalo, N. Y., assignors to Bell Aircraft Corporation, Wheatfield, N. Y.
Application March 19, 1949, Serial No. 82,373
5 Claims. (Cl. 18—47.5)

1. The process of producing articles having minute orifices therethrough, which comprises first heat-softening a synthetic resin stock piece having the property of elastic memory and then deforming said stock piece by elongation in at least one direction, then cooling said stock piece while retaining the latter in deformed condition, then mechanically boring said stock piece in a direction substantially normal to said direction of elongation, and finally reheating said stock piece and allowing it to return toward its original shape to the desired degree so as to cause contraction of the bored portion thereof to the desired sectional dimensions thereof.

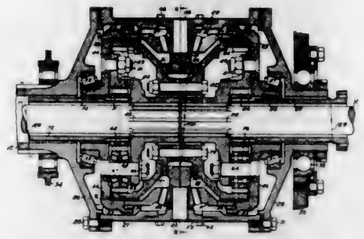
2,533,610
DRIVING AND STEERING MECHANISM FOR MOTOR VEHICLES
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 19, 1946, Serial No. 642,357
23 Claims. (Cl. 74—720.5)



1. In a motor vehicle having ground engaging traction devices at opposite sides thereof and a differential mechanism operatively interposed between said traction devices and comprising a pair of driven shafts, a spider, and compensating gearing rotatable relative to said spider, the combination of a support rotatably mounting said

spider and said shafts, a planet spider mounted on said support for rotation independently of said differential spider, means operable to rotate said planet spider selectively in opposite directions, a double planet pinion rotatably mounted on said planet spider, a sun gear secured to one of said shafts and in mesh with one section of said planet pinion, a rotatable counter gear sleeve surrounding said one shaft and having a first gear section in mesh with the other section of said planet pinion, an idler rotatably mounted on said support and having a first gear section in mesh with a second gear section of said counter gear sleeve, an auxiliary gear sleeve rotatable relative to said counter gear sleeve about said one shaft and having a gear section in mesh with a second gear section of said idler, and gearing connecting said auxiliary gear sleeve in driving relation with said compensating gearing.

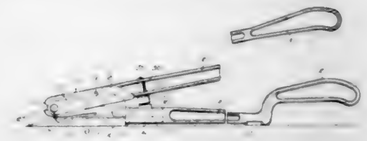
2,533,611
CONTROLLED DIFFERENTIAL TRANSMISSION MECHANISM
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 28, 1946, Serial No. 719,062
25 Claims. (Cl. 74—710.5)



1. A power transmitting mechanism comprising, first rotatably and orbitally movable pinion means, rotatable gearing operatively connected with said first pinion means for epicyclic movement of the latter relative thereto, second rotatably and orbitally movable pinion means, pivotal supporting means for said second pinion means operatively connected independently of the latter with said gearing for rotation thereby about the axis of orbital movement of said second pinion means; a pair of relatively rotatable driven elements differentially connected with each other by said first pinion means, driving means operable to apply an orbital torque component to said first pinion means, other driving means operable to apply a first torque component to said second pinion means, and torque transmitting means operative to apply a second torque component to said second pinion means in response to application of said first torque component to the latter, so that said second pinion means will be driven rotatively and orbitally, and said driven elements will be rotated differentially relative to each other, upon application of said first torque component to said second pinion means.

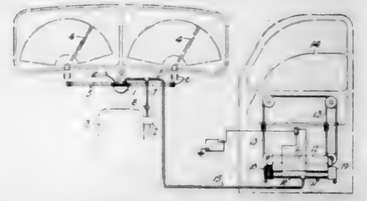
2,533,612
METAL STRIP CUTTER
Walter E. Northcutt, Chebanse, Ill., assignor to Manco Mfg. Co., Bradley, Ill., a corporation of Illinois
Application August 14, 1948, Serial No. 44,357
10 Claims. (Cl. 30—249)

2. In a tool for cutting metal strip, a pair of similarly directed handle levers pivoted together at their forward ends for relative movement about a transverse axis one toward and away from the other, one of said levers having a transverse slot extending rearward beyond said pivot axis and open at its forward end for reception of metal strip, a cutting blade carried by the other lever at one side of said one lever and disposed to traverse said slot, said blade having a

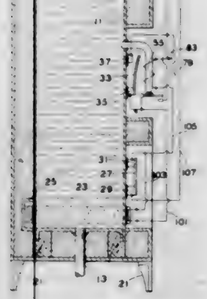


cutting edge disposed to cut metal strip in said slot progressively from the forward edge of the strip toward the rearward edge thereof, and cooperating interfitting elements carried by said levers restraining them against relative transverse movement in the cutting operation, said interfitting elements comprising an element fixed to said other lever and extending along said one lever at the side thereof opposite to said blade.

2,533,613
SECONDARY ACCESSORY MOTOR UTILIZED AS SUCTION STORAGE TANK FOR WINDSHIELD WIPERS
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application February 26, 1949, Serial No. 78,563
2 Claims. (Cl. 60—60)

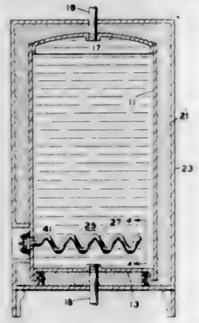


1. A motor vehicle accessory system operable from the intake manifold of the power plant for the vehicle, comprising a suction actuated accessory having a fluid motor chamber connected to such intake manifold by a suction line, a control valve in the suction line for controlling the accessory operation, a second suction actuated accessory having a relatively larger motor chamber in open communication with the suction line and a reciprocable piston in the larger motor chamber movable toward one end thereof for providing a chamber portion of relatively greater capacity at the opposite side of the piston, such chamber portion being in such open communication with the suction line to serve as a suction storage space for supplying the first accessory with operating suction when the second accessory is inoperative, a control valve for the second accessory operable to actuate and arrest the latter, and a check valve interposed in the suction line between the intake manifold and the accessories to close them off from the manifold when the manifold influence is less than that in the interconnected chambers.



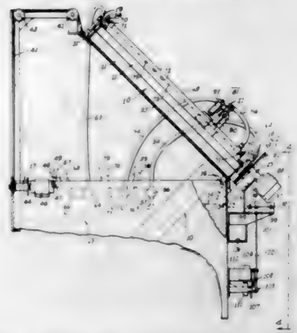
2. A water heater control system for a hot water tank having an electric heater and a thermal retarder switch unit adapted to be mounted on a tank intermediate the ends thereof and adapted to close a heater circuit when subject to cold water, a member of high expansion material having a two-part conduit therein, one part being a relatively short, small area of cross-section conduit and the other part being a relatively long, larger area of cross-section conduit, said short part being in connection with the inside of the tank, a low wattage heating coil around said long part and a contact arm actuable by the material surrounding said long part of the conduit after a predetermined period of time of energization of said heating coil.

2,533,615
WATER HEATER
Clark M. Osterheld, Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application January 4, 1947, Serial No. 720,164
3 Claims. (Cl. 219—39)



1. In combination in an immersion type electric heater for a water tank or the like, a sealing member adapted to be mounted on a tank for sealing substantially from said sealing member to said closed end.

2,533,616
APPARATUS FOR FREEZING FLUIDS
Edgar H. Pace, Montebello, and Mac H. Pace, Whittier, Calif.
Application June 30, 1945, Serial No. 602,576
9 Claims. (Cl. 62—106)



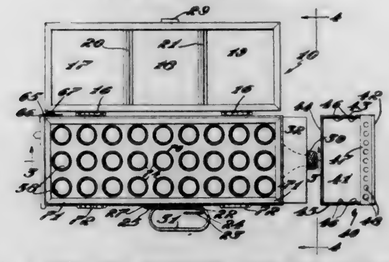
2. In an apparatus for freezing a liquid, the combination of: means providing a receptacle for a refrigerant and a freezing-unit support; a freezing unit adapted to receive a liquid to be frozen; means for movably connecting said freezing unit to said support so that said freezing unit is movable relative to said receptacle between a freezing position in which at least a portion of said unit is disposed in said receptacle and a harvesting position in which said unit is removed from said receptacle; operating means for intermittently moving said unit between said positions; and means for controlling, in timed sequence, the operation of said operating means so that unit remains in said freezing position for a period of time sufficient to freeze liquid therein and remains in said harvesting position for a period of time sufficient to remove the frozen liquid therefrom.

2,533,617
BAITLESS TRAP FOR MINNOWS AND SMALL FISH
Clayton D. Palmer, Albert Lea, Minn.
Application July 9, 1948, Serial No. 37,843
3 Claims. (Cl. 43—100)

1. A minnow trap for use in still water comprising a body having a top, a bottom, and a side wall composed of at least two separate pieces of reticulate material disposed between said top and bottom and continuously curved in the same direction from end to end, said pieces having their ends spaced apart to provide at least two vertical entrance openings each having a width of approximately

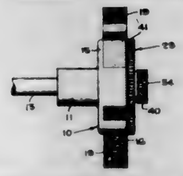
that are directly opposite said entrance openings, whereby minnows swimming along the convex outer faces of said side wall and approaching said entrance openings will not recognize the side wall portions directly opposite the entrance openings as obstructions and will not be thereby deterred from entering the trap chamber through said entrance openings.

2,533,618
PAINTBOX
Samuel Pinanski, Brookline, Mass.
Application January 13, 1948, Serial No. 2,093
7 Claims. (Cl. 41—4)



1. A paint box comprising side and end walls, a tray located between said walls, spaced color pots supported by the tray with at least the upper portion of their side walls projecting above the top of the tray, a shield plate provided with transverse perforations which are adapted to receive the projecting side walls of the color pots, and a hinge on one side of said shield plate whereby the plate may be rotated about said hinge upwardly to clear the uppermost portions of the side walls of the color pots.

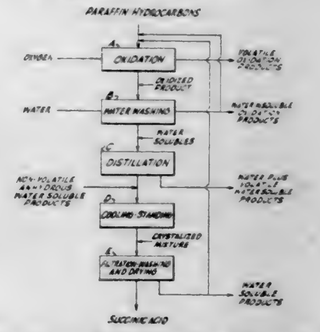
2,533,619
SANDING DEVICE
Harry Pokras, Los Angeles, Calif., assignor to Merit Products, Inc., Los Angeles, Calif., a corporation of California
Application June 1, 1948, Serial No. 30,321
4 Claims. (Cl. 51—194)



1. In a rotary abrading device, a shell having a peripheral wall provided with circumferentially

closure member extending axially for a relatively short length, said means including a series of projections on one and a series of notches on the other; the projections and notches being disengageable upon the closure member being moved axially a distance insufficient to disengage the cooperating drive elements; and means for clamping the shell and closure member together and for maintaining the projections and notches in engagement.

2,533,620
PRODUCTION OF SUCCINIC ACID
Orville L. Polly, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application May 24, 1948, Serial No. 28,950
5 Claims. (Cl. 260—451)



1. A process for the production of succinic acid which comprises oxidizing a paraffinic hydrocarbon at a temperature between 100° C. and 160° C. by blowing with an oxygen-containing gas until the acid number of the resulting oxidizing mixture is between 200 and 250 mg. of KOH per gram, discontinuing said oxidation, water washing said oxidized mixture at a temperature between about 50° C. and 130° C. to produce a water-soluble extract, evaporating said water-soluble extract to remove water and oxidation products more volatile than succinic acid and thereby forming an evaporated water-soluble extract, cooling said evaporated water-soluble extract and thereby causing solid succinic acid to precipitate therefrom and removing said succinic acid.

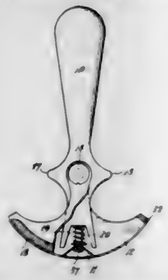
2,533,621
ELECTRIC INSULATOR
Elbert H. Pratt and Ralph C. Christie, Kansas City, Mo.; said Christie assignor to said Pratt
Application September 17, 1945, Serial No. 616,682
2 Claims. (Cl. 174—169)

2. An electric insulator comprising a spool recessed at its opposite ends and having an axially disposed hole formed therethrough and having a broad annular recess formed thereabout

concentric with said axial hole, a relatively narrow annular recess formed at the base of said broad recess and in spaced relation to the outer edges thereof, an electric conductor including a circular member mounted in said narrow annular

recess, and having radially disposed arms extending outwardly from opposite sides of said annular circular member for engaging the terminal members of an electric circuit, said arms being disposed in spaced relation from the side walls of said broad annular recess.

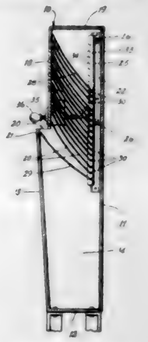
2,533,622
DRY-SHAVING APPLIANCE
Harry Beckham Randolph, London, England
Application August 19, 1947, Serial No. 769,507
In Great Britain September 24, 1946
4 Claims. (Cl. 30—43)



1. In a shaving appliance comprising a handle, an arcuate perforated guard rockably mounted on said handle intermediate the ends thereof, a cutter of shallow V-shape in cross section, and pin means secured to and projecting from the inner end of said handle, said cutter being apically mounted on said pin means for movement over the inner surface of said guard plate, said pin means having a conical surface on which said cutter bears, the apex angle of the cutter and the conicity of said conical surface being such that each of the two sides of the cutter extends from said conical surface at an angle of between 75°–105°.

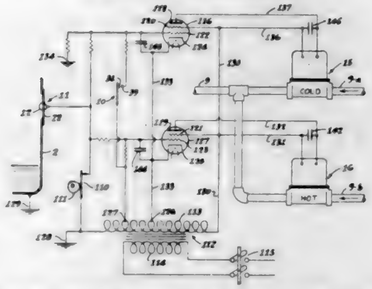
2,533,623
DISPENSER FOR PAPERS AND THE LIKE
Frances C. Ransom, Nashville, Tenn.
Application January 27, 1947, Serial No. 724,505
2 Claims. (Cl. 312—94)

1. In a dispenser for papers and flat items, a casing having a supply section with a front wall terminating as the near edge of a discharge opening, a holder for items to be dispensed, said holder having a support spaced from said front wall, and a plurality of plate-like separators swingably attached to the support in a closely arranged series to provide a plurality of flat interspaces to receive the items, the separators extending across to the front wall and having a dimension greater than the distance from the support to said wall, whereby they are confined thereby, the holder having means to prevent escape of the items out its back, means supporting the support for movement of the separators successively along said wall and across said opening, the casing providing an opposite edge for the opening against which each separator may swing and separate its forward edge from that



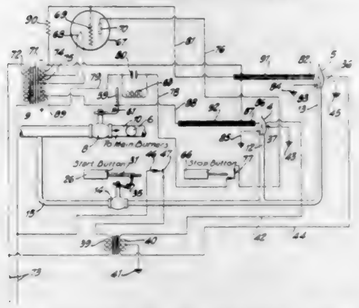
of the separator next above to render its item accessible through the opening, said opposite edge of the opening being displaced forwardly from the support a greater distance than the near edge of the opening.

2,533,624
LIQUID LEVEL AND TEMPERATURE CONTROL SYSTEM
William A. Ray, Glendale, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application June 19, 1946, Serial No. 677,728
2 Claims. (Cl. 236—12)



1. In a system for supplying water to a container: a hot water valve; a cold water valve; both said valves being biased to closed position; a pair of electromagnetic means for respectively operating said valves to open position; a pair of electronic emission devices, each having an input circuit, as well as an output circuit, said output circuits being respectively connected to the electromagnetic means to energize said means; each of said electronic emission devices having a control electrode connected in the corresponding input circuit; a thermostatic switch subjected to the temperature of the water discharged into the container to bias the control electrode associated with the cold water valve to energizing value when the temperature is increased to a limiting high value, and to bias the control electrode associated with the cold water value to deenergizing value when the temperature attains a lower value below said limiting value; and means responsive to the attainment of a definite level of the water in the container for biasing both control electrodes to a deenergizing value.

2,533,625
SAFETY CONTROL SYSTEM FOR FUEL BURNERS
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application July 5, 1947, Serial No. 759,034
19 Claims. (Cl. 158—117.1)



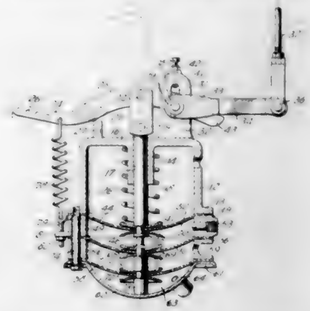
3. In a system of the character described: a plurality of main fuel burners; a plurality of pilot burners for igniting their respective main burners; individual control valves for each of the main burners; a safety valve for interrupting the flow of fuel to all of the main burners; a common pilot burner valve for all of the pilot burners; igniters for the pilot burners; means for temporarily opening the pilot burner valve and for operating the igniters; and means responsive to the ignition of all of the pilot flames for maintaining the pilot burner valve open and for opening the safety valve, comprising electrodes extending into the pilot flames, said electrodes being arranged so that they form a series circuit with the flames.

2,533,626
HINGE STRUCTURE
Harold J. Reiter, Chicago, Ill.
Application November 3, 1947, Serial No. 783,761
14 Claims. (Cl. 16—171)

1. In a hinge structure, a ball-stud element and a ball-stud embracing element, said embracing element comprising a substantially U-shaped bracket having parallel legs extending upwardly from and laterally beyond one edge of the medial portion thereof, said medial portion being apertured to receive a rivet and the legs being substantially triangular.

2,533,627
ENGINE SPEED CONTROL
Vernon A. Roach, Oakland, Calif., assignor of one-half to Glenn B. Osborne
Application November 18, 1946, Serial No. 710,624
22 Claims. (Cl. 103—19)

1. In combination with a pump driven by a variable speed engine provided with a speed governing throttle, speed control apparatus comprising a member connected with and to control movement of said speed governing throttle between retracted and advanced positions, means responsive to variations in pressure at the outlet of said pump and connected with said member to move the latter proportionately to said variations, and means cooperative with said member during movement of the first-mentioned means



in one direction for controlling movement of said throttle toward alternate speed governing positions thereof.

2,533,628
MOVABLE MAGNIFYING LENS INDICATOR
Myer Rosenberg, Chicago, Ill.
Application December 20, 1945, Serial No. 636,110
5 Claims. (Cl. 40—107)

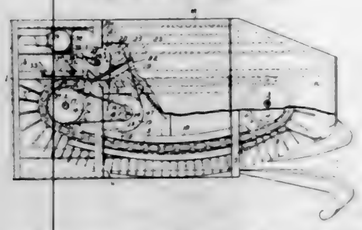
5. A desk article of the character described comprising a single piece relatively elongated, relatively flat frame having an upper undercut channel open at its ends, at which point a strip or strips may be introduced to underlie said undercut portion of the channel and expose the center portion thereof to view, a strip in said channel showing indicia in separate framed rectangular portions, a single piece enlarging lens structure having a portion engaging above said frame and projections engaging below said undercut portion, and a center lens portion of a size to enlarge matter comprising said frame portions, and means closing ends of said channel, whereby the lens structure is adjustable along said frame when introduced at an end thereof and said closing means prevents removal of said strip and lens structure.

2,533,629
POLYSTYRENE PLASTIC FOAM
Fritz Rosenthal, Bellmawr, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application April 18, 1945, Serial No. 589,101
8 Claims. (Cl. 260—2.5)

1. The method of producing a foam of plastic material which comprises polymerizing under heat and pressure a solution of about 90 percent styrene and about 10 percent of a mono-olefin hydrocarbon having not less than 4 nor more than 6 carbon atoms per molecule in the presence of a material which is soluble in said solution under said pressure and which is adapted to gasify at a relatively lower pressure, and then reducing said pressure whereby to cause said material to gasify and expand while being en-

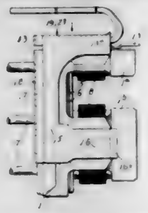
trapped in said polymer, said expanding, entrapped gas causing said polymer to expand into a cellular structure.

2,533,630
SAFETY MEANS FOR COTTON HARVESTERS
John D. Rust, Memphis, Tenn.
Original application April 18, 1944, Serial No. 531,632. Divided and this application May 12, 1947, Serial No. 747,356
4 Claims. (Cl. 56—11)



1. In a cotton picking machine having a plurality of rotating cotton gathering spindles, means for removing the cotton from the spindles including a stripping comb: the improvement which includes a fixed circuit closing element; a yielding circuit closing element located adjacent the comb and constituting one wall of a cotton discharge passage, which yielding circuit closing element is operated by the pressure of an abnormal accumulation of cotton between the said one wall and the comb.

2,533,631
END CLIP FOR COTTON PICKER SPINDLE SLATS
John D. Rust, Memphis, Tenn.
Application December 26, 1947, Serial No. 794,020
9 Claims. (Cl. 56—43)

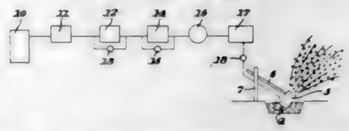


1. An end clip for cotton picker slats formed of a single piece of sheet metal to provide two parallel side walls joined by a front wall and including an end wall composed of two parts one of which is integral with one of said side walls and the other of which is integral with the other side wall, said two parts having interlocking slot and tongue elements, and said front wall having spindle passing holes.

2,533,632
METHOD FOR REINFORCING POLYMERIC BUTADIENE SYNTHETIC RUBBER WITH LIGNOSULFONATE
Jörgen Richter Salvesen, Wausau, and William C. Browning, Schofield, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
No Drawing. Application August 4, 1947, Serial No. 766,082
19 Claims. (Cl. 260—17.5)

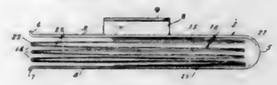
1. A process for preparing a composition containing a lignosulfonate compound and a polymeric butadiene synthetic rubber which comprises the steps of co-dispersing a latex of a polymeric butadiene synthetic rubber with an aqueous solution of a lignosulfonate compound partially desulfonated by alkaline hydrolysis and directly drying the resulting co-dispersion to produce a non-sticky easily-handled powder.

2,533,633
GRANULATED SLAG AND METHOD FOR PRODUCING IT
Charles W. Schott, Duquesne, Pa.
Application April 1, 1946, Serial No. 658,726
7 Claims. (Cl. 49—77.5)



1. In the process of forming a dry, granulated slag product in the form of individual cells or pellets of controlled size and weight, the steps of introducing a fluid having a temperature between 212° F and 500° F. and a moisture content of 0.5% to 15% under a pressure of 15 to 110 lbs./in.^{2} into the open enlarged portion of a Venturi-like member having an open enlarged portion terminating in a restricted orifice, said enlarged portion being partially submerged in a pool of molten slag and blowing the molten slag from the enlarged portion of the venturi through the restricted orifice and free of the pool of molten slag.

2,533,634
PANTS HANGER
George P. Sellers, Phoenix, Ariz.
Application March 1, 1946, Serial No. 651,102
3 Claims. (Cl. 211—89)



1. A pants hanger comprising, in combination, a U-shaped frame of resilient material, a plate secured thereto and adapted for attachment to a wall, and a composite yieldable retaining member supported between the arms of said frame, composed of a single piece of leaf spring material folded and refolded by return bends; said clip being pressed between the arms of said frame, with the ends of said clip rigidly secured to the inner faces of said arms midway of their length, to attain support thereon.

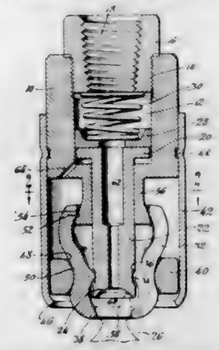
2,533,635
PRINTING TEXTILE FABRICS WITH A DYE PASTE COMPRISING A STYRENE-MALEIC ANHYDRIDE COPOLYMER CROSS-LINKED WITH DIVINYL BENZENE
Raymond B. Seymour, Chattanooga, Tenn., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 26, 1947, Serial No. 776,414
15 Claims. (Cl. 8—62)

1. A method of printing textile fabrics which comprises treating said fabrics with a printing paste comprising a dye and an aqueous solution of a water-soluble salt of a copolymer prepared by copolymerizing a substance selected from the group consisting of styrene, methyl styrene, butyl styrene and chlorstyrene with a substance selected from the group consisting of maleic anhydride and partial esters of maleic anhydride, said copolymer being cross-linked with between 0.1 and 1% of divinyl benzene on the weight of said copolymer, said salt being selected from the group consisting of ammonium salts and alkali salts and being present in said paste in an amount between 0.5 and 5%, and then steam aging the fabric.

2,533,636
DRINKING SPOUT FOR WATER OUTLETS
Richard G. Shoemaker, Sharon Hill, Pa.
Application August 14, 1948, Serial No. 44,258
1 Claim. (Cl. 299—9)

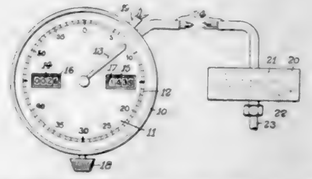
A portable unitarily molded spout drinking device of the character described comprising a substantially straight channel spout member to utilize the liquid flow of water from an outlet in one direction and direct the same therefrom upwardly and outwardly as a drinking fountain, the lower end of said spout member terminating in and merging with a flat base forming an obtuse angle with the spout member, said base having an integral stop projecting upwardly from the edge of the base opposite the said spout member, said base forming stops on both sides of said upwardly projecting stop and a handle integral with said device extending from said base to one side of the device at a right angle, said base being held by said handle at the mouth of the water outlet for directing the flow of water into the spout member, said stops engaging the inside and bottom of said outlet in operative relation therewith.

2,533,637
LUBRICANT OPERATED COUPLER
Harry R. Tear, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application November 3, 1948, Serial No. 58,088
6 Claims. (Cl. 285—169)



1. A lubricant operated coupler of the class described comprising a base having a cylinder formed therein, a tubular piston reciprocably mounted in said cylinder and having an outlet end terminating in a sealing surface, a plurality of pivotal gripping jaws, interengaging means provided by said piston and jaws preventing axial movement of said jaws relative to said piston, a floating fulcrum ring engaging said jaws, said ring surrounding a portion of said jaws, a camming surface rigid with said base, each jaw comprising a gripping end and a cam-engaging end, the latter end being positioned to engage said camming surface, a flange provided by said sleeve for limiting outward movement of said fulcrum ring, means for limiting movement of said ring relative to said base, and a spring in said cylinder for urging said piston outwardly to produce an initial sealing and gripping engagement with a lubricant-receiving fitting.

2,533,638
INSTRUMENT FOR INDICATING THE OPERATING TIME OF VEHICLES AND OTHER DEVICES
George Thornton-Norris, London, England
Application August 18, 1947, Serial No. 769,112
In Great Britain August 30, 1946
13 Claims. (Cl. 161—15)

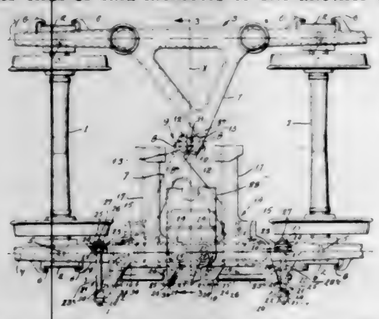


1. An instrument for indicating the operating time of a vehicle or the like, comprising an electrically operated chronometric device, including an impulse generating switch normally open but closable periodically to repeatedly energize said chronometric device, an indicator driven by said chronometric device, a main switch in circuit with said impulse generating switch, starting means in shunt across said impulse generating switch intermediate the latter and said main switch, means shiftable between two positions, and operatively connected to the vehicle or the like to be automatically maintained in or shifted to one such position while the vehicle is stopped, and to be automatically shifted to and maintained in the other such position when the vehicle starts, said shiftable means being operatively connected to said main switch and said starting means to close the main switch upon starting of the vehicle, thereby to initiate energization of the chronometric device and effect initial closure of the impulse generating switch, by way of the starting means, said shiftable means shifting oppositely upon stopping of the vehicle, for reopening of the main switch.

2,533,639
RAILWAY TRUCK
James C. Travilla, Jr., University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application May 7, 1948, Serial No. 25,768
14 Claims. (Cl. 105—182)

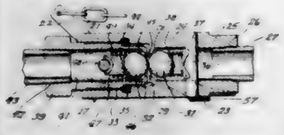
2. In a railway vehicle truck, wheel and axle assemblies, journal boxes mounted on said assemblies and held against movement thereon transversely of the truck, a drop equalizer at each side of the truck extending longitudinally of the truck with its ends mounted on the journal boxes at that side of the truck and holding said boxes

against relative movement longitudinally of the truck, a member affixed to the lower portion of each equalizer between said assemblies and extending from the equalizer inwardly transversely of the truck, and a resilient device attaching the inner ends of said members to one another and



providing for restricted rotation of said equalizers relative to each other and about their respective longitudinal axes extending over the associated supporting journal boxes, and about a common transverse axis, between their ends, said means preventing relative movement of said equalizers longitudinally of the truck.

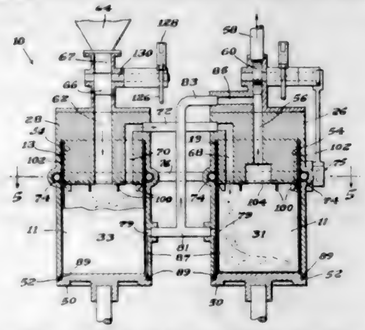
2,533,640
QUICK DISCONNECT HYDRAULIC COUPLER
Raymond M. Ulrich, Roanoke, Ill.
Application October 25, 1947, Serial No. 782,050
3 Claims. (Cl. 284—19)



1. A hydraulic coupler for conduits having therein fluid under pressure comprising male and female portions each provided with a self-closing valve comprising a seat and a closure ball therefor, said male portion having two transverse outwardly extending projections, a pair of cam members carried by recesses in said female portion, said cam members having recesses for engaging said projections to move said male portion to and from said female portion, and a pivoted bell crank lever connected to said pair of cams, said bell crank lever being arranged to be responsive to axial strain on said conduits, to move said cam members to release said male portion.

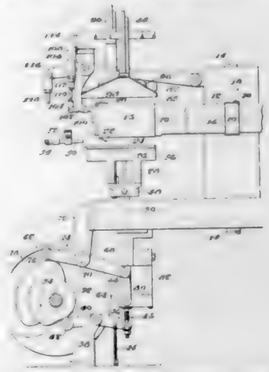
2,533,641
METHOD OF AND APPARATUS FOR FILLING CONTAINERS
Robert W. Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application August 26, 1948, Serial No. 46,218
19 Claims. (Cl. 226—116)

1. In a vacuum operated filling machine for filling containers with flowable solid material, a duplex filling head adapted for air tight connection with the open upper end portions of two containers supported in filling position, said filling head being provided with a material inlet communicating with the interior of one of said containers, and being provided with a suction opening communicating with the second of said containers, and means for establishing communication between the interiors of the two containers whereby to cause evacuation of both containers



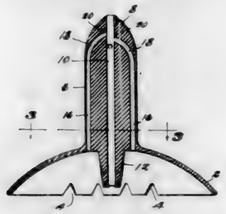
by suction applied to said suction opening and thereby effect an overflow from said first container into said second container so as to obtain compact uniform filling of said first container, and automatically operating valve means for controlling the filling operation.

2,533,642
LINED CONTAINER FORMING MACHINE
John G. Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application January 19, 1949, Serial No. 71,577
3 Claims. (Cl. 93—36.01)



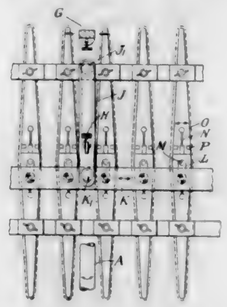
1. In a container forming machine of the character described, in combination, a forming block about which a blank of lining material and an outer carton blank may be successively wrapped to form a lined container, the bottom closure for the liner being formed to provide laterally extended flaps, means for applying the carton blank about the liner including an elevating plate for supporting and elevating the carton blank into engagement with a side wall of the forming block and the liner, and means for directing a stream of air against the adjacent laterally extended flap to cause the same to be maintained in an inwardly extended angular position until the carton blank is elevated and engaged with the flap to be folded thereby flat against the side wall of the liner whereby to assure that the flap will lie flat between the liner and the carton walls in the completed container.

2,533,643
ARTIFICIAL TEAT
James Verner, Pocahontas, Iowa
Application May 3, 1946, Serial No. 667,098
2 Claims. (Cl. 119—71)



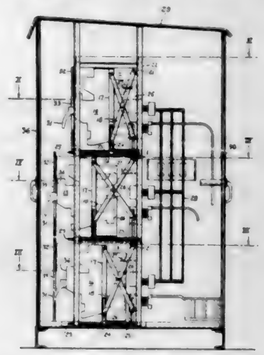
1. An artificial teat of soft flexible material including a base, and a solid extension upstanding therefrom, said extension having a central main passage extending from end to end thereof and having an inlet opening in the base and an outlet opening at the upper end of the extension, there being circumferentially spaced outer passages extending substantially from end to end of said extension, said outer passages respectively having inlet openings communicating with the base and spaced from each other and from the first-named inlet opening, said outer passages having spaced outlet openings opening into the main passage intermediate the ends of said main passage.

2,533,644
FILTER CLEANING APPARATUS
Gordon Heatherton Vokes, Guildford, England, assignor to Vokes Limited, Guildford, England
Application October 11, 1949, Serial No. 120,769
In Great Britain October 18, 1948
1 Claim. (Cl. 183—59)



In a filtering installation having a plurality of filter bags in side by side relationship and oscillatable rapping means within each of said bags, a single mechanism adapted to actuate the oscillatable rapping means within each bag and comprising a plurality of cranks one at the end of each bag operatively connected with the rapping means within the said bag, a single bar pivotally connected with each of said cranks, a toggle lever carried from a fixed pivot and connected by a slotted connection with the said bar, a rotary shaft, an oscillating shaft driven from the said rotary shaft, an arm mounted on the said oscillating shaft, and a tension spring connecting the said arm to a point on the said toggle lever, whereby the spring action from the said spring is distributed over the said rapping means without other operative contact between them.

2,533,645
ENCLOSED SWITCHGEAR WITH ADJUSTABLE PANEL
Boris Volgovskoy, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 11, 1948, Serial No. 48,892
8 Claims. (Cl. 175—298)



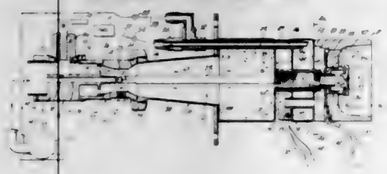
1. In drawout type switchgear, the combination comprising: a cubicle, a switch, means movably mounted within said cubicle for supporting said switch, means for actuating said supporting means to bodily shift said switch from an energized position into a deenergized position, a shielding panel supported in a first position for enclosing the energized portions of said switch in switch energized position, and means for moving said panel from said first position into another switch enclosing position before movement of said switch into its deenergized position.

2,533,646
PICKER STICK CHECK STRAP
Frank B. Wakefield, Auburn, Maine
Application September 5, 1947, Serial No. 772,321
2 Claims. (Cl. 154—46)

1. A flexible, shock absorbing, picker stick check strap for looms, comprising: a laminated leather strap having an outer ply and an inner ply, both plies being of substantial thickness, said outer ply comprising a strap of tough, dense, calendered tanned leather characterized by high tensile strength and serving to prevent undue stretching of the laminated leather strap under the strain set up in checking the movement of a loom picker stick, said inner ply comprising a strap of a highly porous compressible tanned grain leather, a layer of cement between said plies permanently bonding the inner ply to the outer ply to form a unitary structure, said inner ply being impregnated with a substantial body of oil of a non-drying nature distributed throughout the interstices of the inner ply and forming in effect a lubricant reservoir from which said oil can be readily expressed through the pores of said inner ply to the inner surface thereof by a blow from a picker stick, the substantial thickness, porosity, and compressibility of the inner ply enabling it to yield and be compressed substantially upon impact by the picker stick to cushion the shock of the picker stick on the check strap

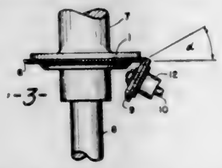
and to reduce the strain transmitted through the bonding cement to the outer ply, the impact of the picker stick automatically expressing oil from the porous inner ply onto the inner surface thereof to provide a sufficient oil film between the inner surface of the inner ply and the surface of the picker stick which engages therewith to reduce to a minimum the development of frictional heat therebetween when in use, thereby preventing burning of the check strap and contributing to the long life thereof.

2,533,647
HEATING DEVICE AND COMBUSTION PROCESS
Richard J. Waller, Bridgeport, Conn.
Application August 17, 1946, Serial No. 691,270
11 Claims. (Cl. 158—53)



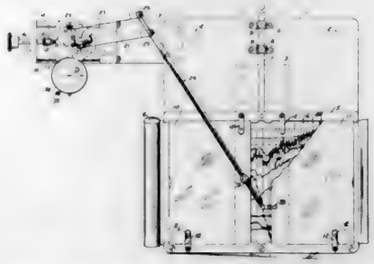
1. In a device of the character described, means for preheating liquid fuel to provide a fuel vapor, means for delivering liquid fuel to said preheating means, a nozzle means for delivering the vapor to said nozzle, a second nozzle in proximity to the first-named nozzle, means for delivering entraining gas through said second nozzle, means for delivering processing gas as an envelope in the region of said nozzles, a tubular member having a diverging chamber into which the mixture of vapor, entraining gas and processing gas is delivered, and an expansion chamber directly adjacent said diverging chamber into which said mixture flows directly from said diverging chamber, burner means, a conduit arranged in a wall of said expansion chamber and communicating with said burner means, and a refractory shell arranged adjacent the said burner means, said shell having openings for delivering part of the heat of combustion rearwardly toward said wall.

2,533,648
CIRCULAR SAW MAKING
Joseph H. Warburg and Ralph M. Warburg, New York, N. Y.
Application March 5, 1949, Serial No. 79,746
2 Claims. (Cl. 76—112)



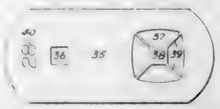
1. In a method of producing a saw blade the steps of stamping the blade from a metal blank to produce on the one face of the stamping teeth having a straight edge and on the opposite face of the stamping teeth having a rounded edge, removing the metal forming the rounded portion of the edge to produce a straight edge which is inclined relative to the saw blade and which conforms substantially to the depth of the teeth.

2,533,649
APPARATUS FOR MEASURING ORDINATES ON A STRIP CHART
De Ver K. Warner, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application November 23, 1946, Serial No. 711,905
2 Claims. (Cl. 33—125)



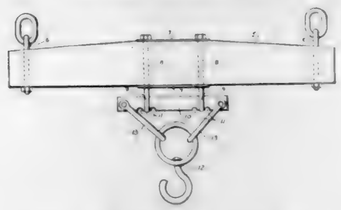
1. A device for measuring ordinate distances at preselected abscissae on a record strip having one or more curves transcribed thereon, comprising means for adjustably holding said record strip, tracer means guided for movement in an ordinate direction, means for visually indicating the ordinates measured by said tracer means, and proportional means interconnecting said tracer and indicating means for operating said indicating means in response to movement of said tracer means, said proportional means comprising pivotally connected arms constituting a parallelogram arrangement, pivot means intermediate the ends of one of said arms for supporting said parallelogram arrangement, another of said arms having an extension beyond the parallelogram for attaching said tracer means, and a guide associated with one of said pivot connections for allowing movement only in the ordinate direction of said curves, said pivot connection also operatively engaging said visual indicating means.

2,533,650
PROCESS OF MAKING HALF-TONE NEGATIVES
Francis E. Wattier, St. Lambert, Quebec, Canada, assignor to Powers Photo Engraving Company, Glen Cove, N. Y., a corporation of New York
Application August 23, 1944, Serial No. 550,794
2 Claims. (Cl. 95—5)



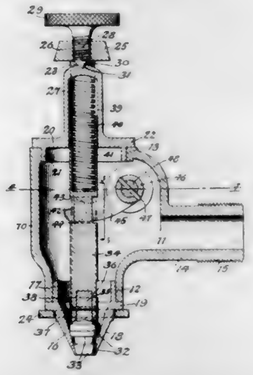
1. A process of making half-tone negatives, which process comprises photographing copy by passing light from the copy, through an approximately square stop aperture and through a half-tone screen of a ratio of aperture width to screen line width substantially less than 1:1; and subsequently photographing the copy on the same sensitive medium by passing light from the copy through a larger approximately square, annular stop aperture the opaque center of which is similar in size and shape to the square stop aperture, and through the same screen, the two exposures being in register, being unequal and made with the diagonals of the stop apertures parallel to the lines of the screen.

2,533,651
EVENER FOR A SPAN OF HORSES
Everett L. Way, Canterbury, near Brunswick, Canada
Application April 8, 1949, Serial No. 86,277
1 Claim. (Cl. 278—19)



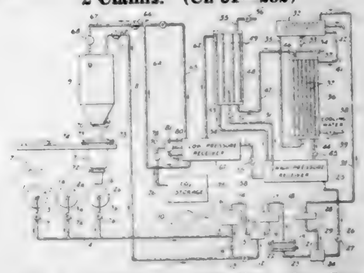
An evener for a span of horses comprising a draw bar having its central portion substantially wider than its extremities, reinforcing members at the said central portion, eye bolts extending through said draw bar and said reinforcing members, said eye bolts having oval shaped eyes, an adjustable member disposed within said eyes, notches formed on said adjustable member in which said eyes are adapted to be seated and means to secure said adjustable member to an implement.

2,533,652
VALVE
Everell C. Weiffenbach, Buffalo, N. Y., assignor to Cass Products Company, Buffalo, N. Y., a partnership
Application February 5, 1947, Serial No. 726,492
3 Claims. (Cl. 251—156)



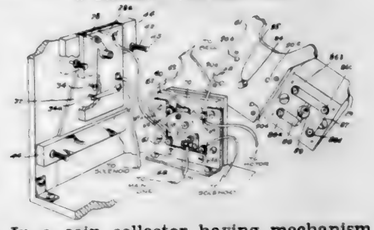
1. A valve comprising a housing provided with an inlet in its side and upper and lower openings above and below said inlet, a nozzle fitting in said lower opening and provided with a valve seat, a cap fitting in said upper opening and provided with a guideway, a valve plug movable toward and from said valve seat, a valve stem connected at its lower end with said valve plug and slidable at its upper end in said guideway, a yoke having side bars arranged on opposite sides of said housing, a ring connecting the lower ends of said bars and engaging the underside of said nozzle and a crosspiece connecting the upper ends of said bars and provided with a threaded opening, a fastening screw working in said threaded opening and engaging the upper side of said cap.

2,533,653
METHOD OF FINISHING RUBBER ARTICLES
Thomas H. Winkeljohn, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 9, 1947, Serial No. 759,879
2 Claims. (Cl. 51—282)



1. In a method of grinding the fins from articles molded of a cold-hardenable elastomer, wherein the articles are cooled by vaporization of solid carbon dioxide and thereafter tumbled with other similar articles to grind the fins thereof, the steps which comprise incorporating the solid carbon dioxide in the form of snow into contact with said molded articles and tumbling said articles while maintaining said contact, whereby the amount of solid carbon dioxide is very materially reduced.

2,533,654
COIN COLLECTING AND REGISTERING APPARATUS
Granville M. Wilcox, Lincoln, and Walter S. Johnson, Providence, R. I., assignors to Max L. Grant, Providence, R. I.
Application April 16, 1945, Serial No. 588,694
3 Claims. (Cl. 235—32)

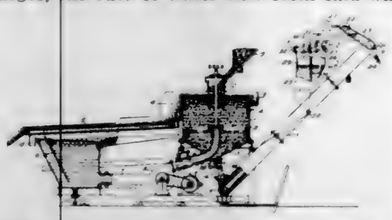


2. In a coin collector having mechanism for receiving and registering coins, a panel having electrical contacts for supplying energizing current to the receiving and registering mechanism and a concealed control switch movable to off and on position, and a registration indicator device removably mountable on the panel, said device and panel having cooperating parts locking the device to the panel on partial rotation thereof, said device having means engaging said control switch and operable to move said control switch to one position.

2,533,655
APPARATUS FOR SEPARATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES
George L. Wilmot, Hazleton, Pa., assignor to Wilmot Engineering Company, a corporation of Pennsylvania
Application April 4, 1947, Serial No. 739,470
10 Claims. (Cl. 209—159)

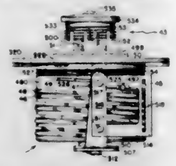
1. An apparatus for the separation of materials of different specific gravities comprising, in

combination, a sorting column having discharges at different levels, means for feeding a mixture of said materials continuously to said column, hydraulic agitating means for introducing water at a substantially constant rate into said column, said agitating means being adapted to deliver said water in a plurality of streams adjacent the bottom of said column to form an upward flow of water in said column whereby said materials form a fluid mass with said water, water feeding means for introducing an additional stream of water into said column through the lowermost of said discharges, the rate of water flow from said water



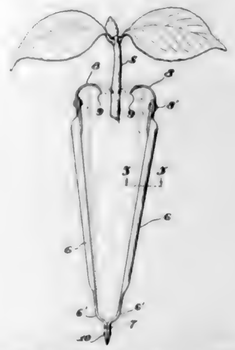
feeding means being responsive to changes in density of said fluid mass, valve means disposed within said lowermost discharge to control the flow therethrough of material of higher specific gravity from said column, said valve means having a minimum opening therethrough of predetermined area whereby water from said water feeding means may flow continuously into said column, and float means controlled by said water feeding means for regulating the opening of said valve means progressively from a maximum to a minimum as the density of said fluid mass varies from a maximum to a minimum.

2,533,656
RESISTOR
Walter P. Wills, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application December 1, 1941, Serial No. 421,173, now Patent No. 2,423,540, dated July 8, 1947. Divided and this application April 26, 1947, Serial No. 744,213
6 Claims. (Cl. 201—56)



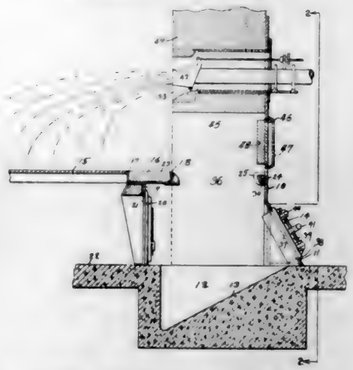
1. In a slide-wire assembly, the combination of, a support, an insulated wire carried by said support, a bare wire space wound on said insulated wire, a bare wire carried by said support and spaced from and parallel to the insulated wire and of substantially the same gage as the insulated wire, a bare wire space wound on said second mentioned bare wire and electrically conductive throughout its length with the said bare wire and of substantially the same gage as the bare wire which is space wound on the insulated wire, a contact bridging the space wound bare wires and relatively movable with respect thereto, a terminal block having three terminals located on the support adjacent one end of the wires, a connection between one of the terminals and the near end of the insulated wire, a connection between another of the terminals and the near end of the bare wire which is space wound on the insulated wire, a connection between the opposite ends of the insulated wire and the bare wire space wound thereon, and a connection between the other terminal and the near end of the bare wire upon which is space wound the other bare wire.

2,533,657
GRAFTING KNIFE
Helen E. Wolfe, Arcadia, Calif.
Application May 14, 1948, Serial No. 26,961
4 Claims. (Cl. 47—6)



1. In a grafting knife, a pair of like opposed and arcuate blades having straight cutting edges on certain corresponding ends thereof disposed to be simultaneously brought into contact with opposite sides of the stem of a scion to be grafted, and opposed handles joined at certain corresponding ends and carrying said blades on their other ends; the cutting edges of said arcuate blades being presented toward the joined ends of said handles.

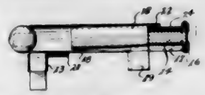
2,533,658
FURNACE CONSTRUCTION
Richard C. Wright, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application November 24, 1944, Serial No. 564,909
9 Claims. (Cl. 110—165)



1. A furnace construction consisting of a refractory wall having a furnace front disposed in front of same, said front having fire and ash pit

doors mounted therein, a horizontal grate on a level with the bottom of the fire door extending to the inner side of the refractory wall and spaced from the interior of the furnace front to afford a passageway for ashes into the space behind said ash pit door and a closure for the space between said horizontal grate and the floor beneath said grate, the space between said closure and the ash pit door constituting ash storage space.

2,533,659
MARBLE SHOOTER
Joseph Yates, Bountiful, Utah
Application July 12, 1946, Serial No. 683,212
3 Claims. (Cl. 124—16)



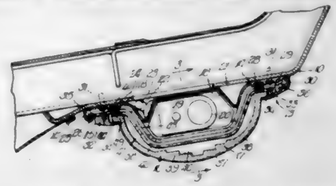
2. A marble shooting toy comprising a hollow cylindrical body with open ends and formed in its top with an opening adjacent its rear end and in its bottom with a longitudinal slot extending forwardly from the rear end of said body, means at the forward end of said body for releasably holding a marble, a cylindrical plunger loosely slidable in the front end of said body and having a depending cocking finger at its rear end slidable in said slot, the rear end of said plunger having on its top a trigger projection to engage in said opening in the body, a spring abutment at the rear of said plunger, a closure for the rear end of said body, and a coil spring in said body between said closure and said abutment.

2,533,660
PREPARATION OF CALCIUM PEROXIDE
James H. Young, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 31, 1950, Serial No. 153,295
6 Claims. (Cl. 23—187)

1. A method for producing calcium peroxide comprising adding separately (*a*) a soluble calcium salt and (*b*) a material from the group consisting of alkali metal peroxides and alkali metal hydroxides, to a cold agitated aqueous reaction medium at such rates and in such relative proportions as will maintain the pH of said medium within the range 9.5 to 11, said medium containing seed crystals of calcium peroxide hydrate and also free hydrogen peroxide in a concentration of at least 0.1 gram H_2O_2 per liter during the course of the reaction, separating the resulting calcium peroxide hydrate and drying it.

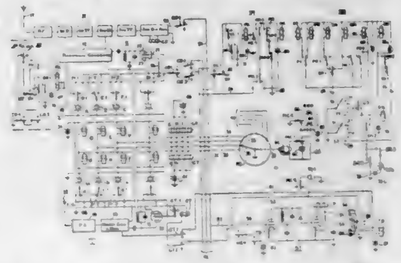
2,533,661
FIXTURE ASSEMBLY FOR ELONGATED TUBULAR LAMPS
Albert L. Arenberg, Highland Park, Robert G. Nordquist, Glen Ellyn, and Orval W. Rahn, Chicago, Ill., assignors to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application March 18, 1948, Serial No. 15,684
6 Claims. (Cl. 240—51.11)

1. In a lighting structure of the type described, an elongated backing member provided with an elongated hinge keeper in fixed relation thereto and substantially coextensive in length therewith adjacent a side thereof, said keeper projecting at an angle to the backing member and being shaped to provide an upwardly and inwardly opening keeper recess, an elongated, panel supporting frame having a projecting hinge tongue removably receivable in said open keeper recess to hingedly support said frame on said backing member, a locking member and means fixedly



but removably securing said locking member to said backing member adjacent said keeper, said locking member having lateral restraining engagement with said frame hinge tongue to prevent separation of said member and frame by transverse relative movement thereof.

2,533,662
AUTOMATIC TRUNK SELECTING SYSTEM FOR RADIO TELEPHONE STATIONS
Everhard H. B. Bartelink, Bronxville, N. Y., assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application April 11, 1947, Serial No. 740,959
9 Claims. (Cl. 250—6)



6. In a radio-telephone system: a subscriber's station including a radio transmitter and receiver and a subscriber's telephone set normally resting on a switch hook; a plurality of tuning elements adapted for tuning said station to any of a preselected number of carrier frequencies; means including said tuning elements, together with a motor and switching means driven thereby for tuning said station to said carrier frequencies successively; a normally closed operating circuit for said motor; means including a selective circuit and relay means connected thereto, responsive to a modulating signal impressed on any said carrier frequency incoming to said receiver for deenergizing said motor when said receiver is tuned to said carrier; a station selector thereafter responding to coded interruptions of said modulating signal for selecting and signaling said station; a circuit responsive to said station selection for thereafter holding said motor inoperative upon cessation of said modulating frequency; means including said switch hook and a carrier current actuated relay in said receiver, for thereafter holding said motor inoperative, upon removal of said telephone set from said switch hook; means for initiating an outgoing call from said station, including a manually actuated switch and a carrier current actuated relay for stopping said motor when said

station is tuned to any said carrier frequency on which no carrier is incoming to said receiver; means including said carrier relay for thereafter holding said motor inoperative on receipt of incoming carrier on said frequency; and means including an additional switch for thereafter energizing said transmitter to transmit outgoing carrier on said frequency.

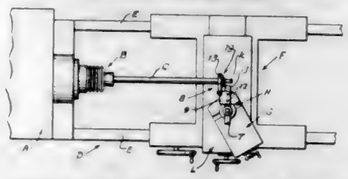
2,533,663
CRATE
Ralph J. Byers, Chicago, Ill., assignor to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware
Application July 2, 1947, Serial No. 758,637
8 Claims. (Cl. 217—48)

7. A wire-bound shipping crate comprising a plurality of sides alternately vertically offset from each other to provide opposite pairs of raised and lowered crate sides, each of said sides having top, bottom and intermediate cleats extending substantially the length of said side and each flush with the end of its respective side, and each of said cleats having a pair of spaced projecting tongues and a central recess defined by the tongues at the end thereof, the tongues of cleats of the lowered sides of said crate being positioned below the tongues of cleats of raised sides of said crate to maintain the respective sides offset from each other and prevent vertical shifting in either direction, one of said respective tongues of each pair having a vertical surface thereof in interlocking proximity to a vertical surface of an adjacent recess throughout at least a portion of said surface to prevent said sides from shifting sideways and to support the sides against collapsing forces especially centrally thereof by virtue of said intermediate cleats being so interlocked.

2,533,664
HANGERS FOR USE IN PROCESSING PHOTOGRAPHIC PRINTS
Joseph H. De Lacy, Park Ridge, Ill.
Application November 17, 1947, Serial No. 786,400
5 Claims. (Cl. 95—100)

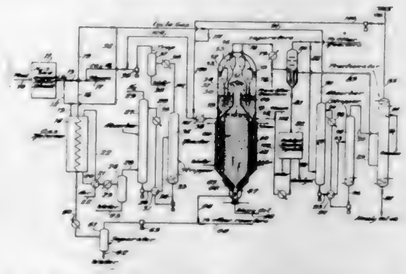
1. A hanger for photographic prints during fluid treatment comprising a frame provided with suspension means and a cross-bar and a device for gripping a margin of the print, including a gripper bar of wire pivotally supported on the bar and provided with helical end portions for guiding the print into position for gripping and terminating in points for spot contacting the print, and spring means for urging the points to grip the print between the bar and said spots.

2,533,665
PILOT TURNING ATTACHMENT FOR LATHES
Donald Du Bois, Ashokan, and Percy Wheeler, Poughkeepsie, N. Y.
Application November 3, 1945, Serial No. 626,532
2 Claims. (Cl. 82—35)



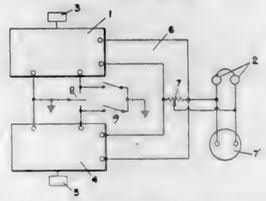
1. A pilot turning attachment for lathes comprising a rectangular block-like body having flat forward, rearward and marginal surfaces and provided in its rearward surface with a groove opening through opposite marginal edges and provided with set screws projecting into said groove, said groove being adapted to receive the shank portion of a tool bit, a tool bit having its shank portion nested in said groove and held in place by said set screws, said tool bit constituting the sole support for said body, said body being detachable and adjustable in relation to the tool bit and one projecting end of the tool bit being adapted to be mounted in a conventional tool post, a plate detachably and adjustably mounted on the forward surface of said body and projecting beyond the adjacent marginal edge, said plate having a centered anti-friction bearing adapted to completely embrace and steady the free end of the stock to be turned and cut by said tool bit, said bearing being eccentric to the longitudinal axis of said tool bit and lying in a plane in spaced parallelism in relation to the adjacent end of said tool bit.

2,533,666
HYDROCARBON SYNTHESIS
Robert C. Gunness, Flossmoor, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 29, 1945, Serial No. 638,412
8 Claims. (Cl. 260—449.6)



1. A process for carrying out chemical reactions which comprises passing a fluidized mass of solid particles of small particle size in a gaseous medium upwardly through a confined passageway formed by heat exchange surfaces arranged and terminating within a large enclosed zone, passing solid particles and gaseous medium upwardly from said passageway into a space of larger cross-sectional area than said passageway so that some of the particles settle out of the gaseous medium, passing said settled particles downwardly in contact with heat exchange surfaces in said large enclosed zone to cool the solid particles, mixing the cooled particles with additional gaseous medium, and passing the last named mixture as a fluidized mass through the said passageway.

2,533,667
SYSTEM FOR TESTING HEARING
Bertram M. Harrison, Wellesley, Mass.
Application November 27, 1946, Serial No. 712,551
2 Claims. (Cl. 181—.5)

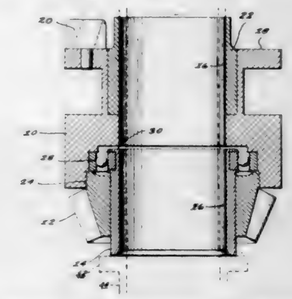


1. A system for testing an individual for defective hearing comprising a pair of oscillators for independently producing notes of desired frequency, means under control of the individual under test for varying the frequency of one oscillator in accordance with the sound he hears to match that of the other, means under control of the tester for changing the frequency of the other oscillator to the desired pitch which the individual is to match, listening phones connected to both oscillators, a switching means for selectively operating one or the other oscillator, and a switching means for operating both oscillators simultaneously.

2,533,668
ADJUSTABLE ERASER FOR PENCILS
Charles R. Hicks, Jackson, Miss.
Application December 6, 1948, Serial No. 63,819
2 Claims. (Cl. 120—38)

2. For use with a writing implement having a lower housing provided with a hollow portion in the upper end thereof, an improved adjustable eraser comprising, an upper section adapted to be rotated with respect to said writing implement provided at one end with an internally threaded portion, an intermediate sleeve attached to said upper section for rotation therewith, a substantially oblong screw shaft disposed in the internally threaded portion of said upper section for axial movements therein, an eraser supporting member at one end of said oblong screw shaft for axial movement therewith, a liner within said intermediate sleeve and having a portion adapted to be disposed in and affixed firmly to the inner wall of the hollow portion of said lower housing of the writing implement, two substantially parallel walls fixed within said liner and extending from one side of said liner to the other side thereof and encasing said screw shaft, whereby rotation of said upper section and said intermediate sleeve as a unit axially moves said screw shaft and said eraser supporting member, portions of said walls being spaced from the inner wall of said liner to provide a storage space for pencil leads, and a closure disposed between said upper section and said liner for closing the open end of said storage space.

2,533,669
BOBBIN GEAR ASSEMBLY FOR ROVING FRAMES
Robert Q. Hollingsworth, Atlanta, Ga., assignor to American Engineering Corporation, a corporation of Georgia
Application May 3, 1949, Serial No. 91,143
10 Claims. (Cl. 57—102)

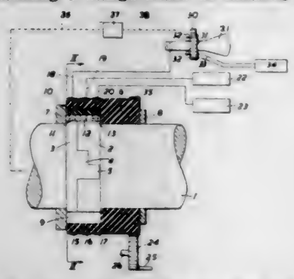


1. A bobbin gear assembly for roving frame bolsters comprising a sleeve member adapted for disposition as a bobbin seat on a bolster, a gear element carried on said sleeve member for driving connection to rotate said sleeve member on said bolster, and a second sleeve member assembled with said first sleeve member for relative rotation and thereby adapted for positioning and supporting said first sleeve member and gear element for free rotation on said bolster.

2,533,670
ELECTRONIC RANGE FINDING APPARATUS
Geoffrey Walter Hart, Stoke Poges, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application January 8, 1948, Serial No. 1,101
In Great Britain January 9, 1947
7 Claims. (Cl. 315—22)

1. Electronic range finding apparatus comprising a cathode ray tube having a screen, means for deflecting the beam in said tube to produce a radial trace on said screen, means for deflecting the beam to move said trace angularly, means for modulating said beam periodically for a period less than the period of angular movement of said beam to produce on said screen a normally sta-

tionary radially extending series of separated marks forming a range scale of smaller angular



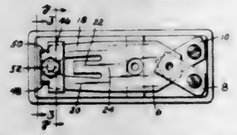
extent than the angle swept by said beam, and means for adjusting the angular position of said scale relative to said screen.

2,533,671

METHOD AND MEANS FOR MOUNTING SNAP ACTION SWITCH BLADES

Philip C. Jacobs, Jr., Newtonville, Mass., assignor, by mesne assignments, to The Acro Manufacturing Co., Columbus, Ohio

Application April 13, 1948, Serial No. 20,656
8 Claims. (Cl. 200—67)



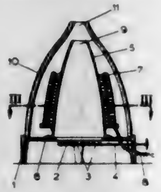
1. A mounting for a snap action switch blade having a pair of legs which must be toed in to give the desired operative effect, said mounting comprising a base, a support on said base of sufficient width to engage the under flat areas of the ends of said legs when said blade is placed thereon, a clamp adapted to overlie the upper surfaces of the ends of said legs, said clamp having a pair of oppositely disposed downturned members integral with said clamp for engaging the outer edges of the ends of said legs, and means for drawing said clamp toward said support whereby said legs may be clamped therebetween and said downturned members will be in a position to engage and move said leg ends toward each other.

2,533,672

DOUBLE-ACTING ELECTRIC STOVE

Dimitry Kossovitch, Levallois-Perret, France

Application July 8, 1947, Serial No. 759,533
In France July 19, 1945
2 Claims. (Cl. 219—38)



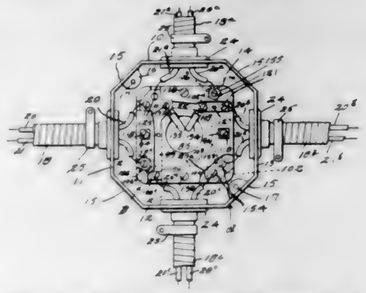
1. An air heater comprising in combination a base having an adjustable aperture, an inner pipe of heat conductive material mounted upon said base, surrounding said aperture of generally ogival form and opened at its top, an electric resistor surrounding said inner pipe and means to supply current thereto, and an outer pipe of heat conductive material also mounted on said base surrounding said inner pipe and said resistor out of contact therewith and opened at its top.

2,533,673

JUNCTION BOX ASSEMBLY

Francois A. Lasserre, Rayne, La.

Application June 17, 1946, Serial No. 677,155
3 Claims. (Cl. 174—59)



1. In a device of the kind described, a four sided current distributing insulating block, having embedded therein in one face an L-shaped electrically conducting member with binding screws at the ends thereof at two diagonally opposite corners of the block, and a two binding screw terminal at the junction of the legs thereof, a rectilinear electrically conducting member embedded in the other face of said block and disposed parallel to one leg of the L-shaped member at opposite margins of said block, and having a one binding screw terminal at one end crossing the other leg of the L-shaped member and a three binding screw terminal at the other end of said rectilinear member, and a two binding screw terminal imbedded in the same face of the block as the rectilinear member and arranged in marginal alignment with the end of the L-shaped contact diagonally opposite to said crossing terminal of the rectilinear contact.

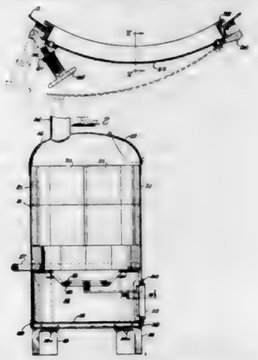
2,533,674

HEATER CONSTRUCTION, INCLUDING DOOR DRAFT AND CLOSURE MEANS

Sam P. Locke, Mexico, Mo.

Application July 24, 1948, Serial No. 40,541
14 Claims. (Cl. 126—73)

2. A heater construction comprising a cylindrical casing having a recess extending upwardly from the bottom thereof, a door frame in the configuration of a cylindrical segment and defining a door opening, said door frame having a peripheral channel therearound for receiving the marginal edge of the recess-defining portion of the casing in the top and sides thereof, means for fastening said door frame in said recess, a grate ring in said casing, a grate carried by said grate ring, said grate ring, grate and casing defining a combustion chamber, a top for said casing having a fuel charging door and a smoke outlet, a flexible sheet metal door hinged on said door frame to control said door opening, said flexible sheet metal door in its unstressed condition being curved on a radius of curvature substantially greater than that of the door frame, and means for progressively and selectively stressing said sheet metal door to flex it towards substantial curvate conformity with the door frame for con-



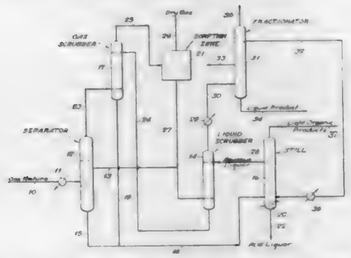
trolling the door opening and for regulating draft therethrough.

2,533,675

RECOVERY OF OXYGENATED COMPOUNDS AND HYDROCARBONS FROM MIXTURES THEREOF

Robert F. Marschner, Homewood, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application October 30, 1945, Serial No. 625,519
4 Claims. (Cl. 260—450)

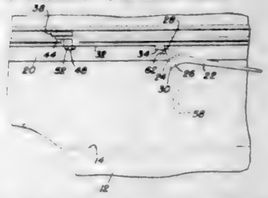


1. In a process for separately recovering generically different types of components from a mixture of hydrocarbons, organic oxygenated compounds, and water, obtained by catalytically hydrogenating carbon monoxide, cooling the resulting vaporous mixture and condensing normally liquid components therefrom, and separating from the cooled mixture a gas phase, a first liquid hydrocarbon phase, and a first aqueous phase, all of said phases containing organic oxygenated compounds, the improvement which comprises fractionally distilling said first aqueous phase, and separating therefrom an overhead fraction consisting predominantly of low-boiling organic oxygenated compounds substantially free from organic acids, a bottom aqueous fraction containing organic acids substantially free from other organic oxygenated compounds, and an intermediate aqueous fraction containing hydrocarbon-soluble substances and higher-boiling water-soluble organic oxygenated compounds; contacting said first liquid hydrocarbon phase with said intermediate aqueous fraction; and stratifying and withdrawing therefrom a second liquid hydrocarbon phase containing a diminished proportion of organic oxygenated compounds and a second aqueous phase containing a diminished proportion of hydrocarbon-soluble substances.

2,533,676

BARN CLEANING APPARATUS

Charles Matthews and Harvey M. Wenger, East Earl, Pa.

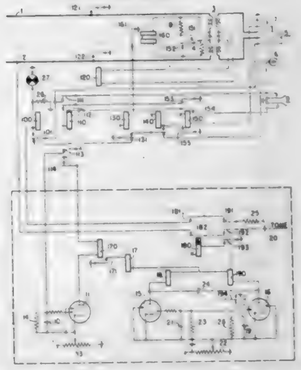
Application November 7, 1949, Serial No. 125,976
3 Claims. (Cl. 198—224)

1. In a barn cleaning apparatus, the combination of a reciprocable member slidable longitudinally in a manure collecting channel, a plurality of channel sweeping blades pivoted at longitudinally spaced points to said member and swingable from an operative position substantially at right angles to the member into a folded position adjacent said member, a bar parallel to and reciprocable independently of the member, means provided on said bar and operatively engageable with said blades whereby the latter may be positively swung to their operative position by reciprocation of the bar when said member is stationary, a reciprocable carriage, a pin projecting from said carriage, a connecting link pivoted at one end thereof to said member and provided in its other end portion with a slot to receive said pin, and a pivot element connecting said bar to an intermediate portion of said link, whereby said bar may be reciprocated independently of said member.

2,533,677

ELECTRONIC DEVICE FOR TIMING TOLL CALLS AND FOR SIGNALING BOTH SUBSCRIBER AND OPERATOR

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

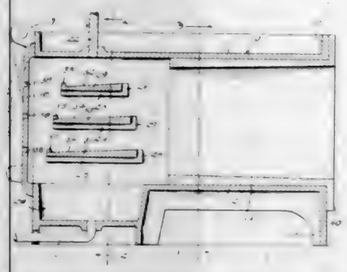
Application September 15, 1945, Serial No. 616,615
4 Claims. (Cl. 179—7.1)



3. A timing arrangement for measuring elapsed time of telephone conversations over a trunk circuit; a first, a second and a third hot-cathode gaseous filled electron discharge device; a first, a second and a third biasing circuit for respectively controlling each of said discharge devices; an aperiodic circuit included in each of said biasing circuits and each comprising a condenser and a resistor connected in multiple, a

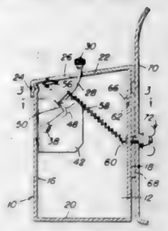
source of current and an individual circuit for charging each of said condensers to a given potential for biasing each respective discharge device, means for initiating the flow of a first aperiodic current in the aperiodic circuit corresponding to said first biasing circuit when it is desired to start the timing of an established connection over said trunk circuit by opening said charging circuit individual to said aperiodic circuit to slowly discharge the corresponding condenser through its said resistor at a given rate to reduce the potential in said first biasing circuit, said first discharge device operative in response to said reduced potential in said first biasing circuit reaching a certain predetermined value, means controlled responsive to the operation of said first discharge device for initiating the flow of a second aperiodic current in the aperiodic circuit corresponding to said second biasing circuit by opening said charging circuit individual to said second aperiodic circuit to slowly discharge the corresponding condenser through its said resistor at a given rate to reduce the potential in said second biasing circuit, said second discharge device operative in response to said reduced potential in said second biasing circuit reaching a certain predetermined value, a warning tone circuit, a relay operated responsive to said operation of said second discharge device for completing said warning tone circuit to warn subscribers in said connection of the impending expiration of an initial charge period and for initiating the flow of a third aperiodic current in the aperiodic circuit corresponding to said third biasing circuit by opening said charging circuit individual to said aperiodic circuit to slowly discharge the corresponding condenser through its said resistor at a given rate to reduce the potential in said third biasing circuit, said third discharge device operative in response to said reduced potential in said third biasing circuit reaching a certain predetermined value, means controlled responsive to the operation of said third discharge device to cause the release of said relay, and a signalling circuit completed in response to the release of said relay to indicate the expiration of the initial charge period.

2,533,678
VAPORIZING TRAY TYPE OIL BURNER
Theron A. McCrimmon, Bessemer, Ala.
Application October 30, 1947, Serial No. 783,203
1 Claim. (Cl. 158—91)



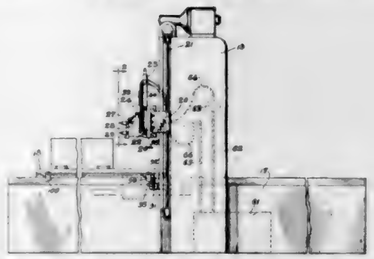
An oil burner comprising a housing open at each end, a closure hingedly carried by the front end of said housing formed with a plurality of vertically spaced apart horizontally elongated air intake slots, a plurality of horizontally disposed burner plates, each of said plates having the upper surface thereof inclined downwardly toward the front end of said housing and the front edges of said plates being progressively offset rearwardly from the lowermost to the uppermost plate whereby excess unburned oil on an upper plate will drip onto a lower plate, an oil supply pipe disposed above the uppermost of said plates and adapted to discharge oil thereon, an oil retaining rib carried by the front edge of each plate, each of said ribs being of less length than the width of its associated plate and of progressively increasing length from the rib on the uppermost to the rib on the lowermost of said plates whereby oil flowing on said plates is caused to flow around the ends of said ribs, means supporting said plates in superpose spaced relation and in substantial alignment with said slots whereby the air entering the housing through said slots will pass over said plates and effect a distribution of oil on said plates.

2,533,679
CIGARETTE CRUSHER AND CONTAINER
Benjamin F. Michel, Spokane, Wash.
Application March 15, 1949, Serial No. 81,424
3 Claims. (Cl. 131—237)



3. A device for extinguishing and retaining cigars and cigarettes comprising a receptacle, a bracket disposed in said receptacle and having a pair of legs, each leg having a keeper slot and an intersecting receiver slot, a crusher disposed in said receptacle and having a pivot pin operatively disposed for pivotal and linear movements in said keeper slots, and means carried by said crusher for operating said crusher, a part of said bracket connecting said legs and forming an anvil for accommodating lighted cigars and cigarettes when said crusher is operated, the anvil part of said bracket being fixed to the interior of said receptacle and said legs being spaced from the receptacle.

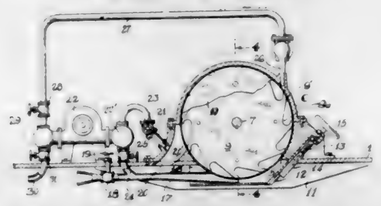
2,533,680
TOOL LIFTER FOR PLANERS
Carl Morey and Harry A. Dingeldein, Hamilton, Ohio, assignors to Liberty Planers, a partnership
Application March 3, 1945, Serial No. 580,756
8 Claims. (Cl. 90—55)



3. In a planer, a tool holder support, a tool holder pivoted to said support for swinging

movements from inoperative to operative position against said support, a cylinder mounted in said support, a piston in said cylinder having a pivotal connection with said tool holder, a fluid pressure system connected with both sides of said piston for moving said piston in both directions, said fluid pressure system acting against said piston for drawing and maintaining said tool holder tightly against said cylinder during the operative stroke of the planer.

2,533,681
PROPULSION MEANS FOR BOATS
John Napoli, Monterey, Calif.
Application June 7, 1949, Serial No. 97,602
3 Claims. (Cl. 114—0.5)

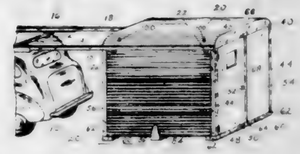


1. In a boat having a keel provided with an opening, a housing mounted on the keel above the opening therein, a shaft rotatably supported by the housing, a rotor keyed to the shaft and having peripheral teeth, the said rotor being arranged with a portion thereof projecting beneath through the opening in the keel, an enclosure secured beneath the keel and arranged beneath and at the opposite sides of that portion of the rotor which projects through the opening in the keel, the said enclosure having water inlet means at its forward end and water outlet means at its rear end, a pump connected at its intake end to the water outlet means, a nozzle arranged to direct water tangentially against the teeth of the rotor, and a conduit connecting the discharge end of the pump with the nozzle.

2,533,682
CHEESE CUTTER
Peter N. Nelson, Chicago, Ill.
Application November 12, 1947, Serial No. 785,276
4 Claims. (Cl. 30—116)

3. In a slicer of the type including a taut cutting wire having a fastening portion at each end and carried by and alongside a supporting rod in spaced relation and detachably affixed thereto, adjustable means for attaching an end portion of the wire to the rod comprising a member slidable on the rod and to which the wire end portion is detachably connectible, said member being recessed to detachably receive said wire end portion, a turn nut adjustably mounted on the rod inwardly of said member for engaging the same to move it outwardly along the rod to tension the wire and movable inwardly in an opposite direction to loosen the wire, and another element affixed to the rod at the other wire end portion and recessed to receive said other wire end portion for the detachable fastening of the same to the rod.

2,533,683
PORTABLE STRUCTURE
Frederick Neuhaus, St. Louis, Mo.
Application January 24, 1949, Serial No. 72,437
2 Claims. (Cl. 5—119)

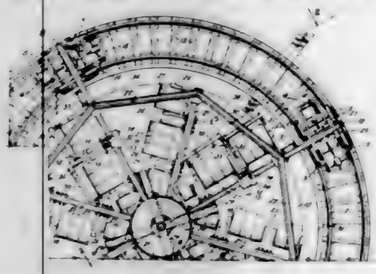


2. A portable structure that when folded can be carried atop an automotive vehicle and that when extended forms a shelter in which one or more persons can sojourn in comfort and that comprises a support with downwardly directed edges that constitutes a water-tight, open-bottomed inclosure, guides that are adapted to be secured to the top of an automotive vehicle, interfitting surfaces on said guides and said support that hold said support above the ground while permitting movement of said support relative to said guides, said support being separable from said guides, stanchions that are rotatably secured to said support and can be extended vertically downward from said support or can be disposed in a horizontal position adjacent said support, spaced receptacles that receive the lower ends of said stanchions and space them apart predetermined distances, a floor, walls disposed between said support and said floor, said walls being movable adjacent said support, said walls being secured to said stanchions, confining members that are spaced on opposite sides of said floor and hold said walls closely adjacent said floor, framed bed springs dimensioned to engage said stanchions, and interfitting surfaces on said stanchions and said springs that hold said springs in position relative to said stanchions, the engagement between said support and said stanchions, said springs and said stanchions, said walls and said stanchions, said confining members and said walls, and said receptacles and said stanchions making said structure self-supporting in extended position.

2,533,684
PULVERIZING MILL OF THE ROLLING MORTAR TYPE
Richard L. Newcomb and Charles Jefferson Harrah, Denver, Colo.
Application August 4, 1947, Serial No. 765,940
3 Claims. (Cl. 241—109)

2. An ore grinding machine comprising: a circular, horizontal floor; a pedestal arising at the axis of said floor; a circular track concentrically surrounding said floor; hub members rotatably mounted on said pedestal; cross beams extending

from said hub members radially outward over said track; cars mounted on said track, there being one car under the projecting extremity of each cross beam; means projecting upward from each car into engagement with the cross beam thereabove to propel the latter driving motors on said cars; two pairs of hinged roller links extending rearwardly from each cross beam; a pair of crushing rollers, there being a crushing roller mounted between each pair of roller links so as to roll upon said floor; means for feeding material to be crushed to said floor adjacent the axis



thereof; an elongated drag member hingedly secured to the outer roller links of the outer roller of each pair and extending inwardly toward the axis of the floor rearwardly of said roller; an inner drag member secured to the inner roller links of the inner roller of each pair and extending outwardly toward the circumference of said floor; a cable having its extremities secured to the adjacent free extremities of said drag members; and a motor-operated reel about which the mid-portion of said cable is wrapped, so that rotation of said reel will incline both drag members simultaneously in a common direction.

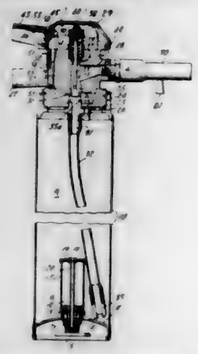
2,533,685

FIRE EXTINGUISHER

Ignatius Nurkiewicz, Brooklyn, N. Y., assignor to Stop-Fire, Inc., Brooklyn, N. Y., a corporation of New York

Application June 9, 1949, Serial No. 97,997

8 Claims. (Cl. 169—31)



1. A fire extinguisher comprising a cylindrical container, a head for closing one end of said container having a plurality of bores therein parallel to the axis of the container, one of said bores comprising a valve chamber communicating with the interior of the container and with an outlet opening in the side of the head, a spring pressed valve within said valve chamber having an operating button, a pair of operating handles extending laterally from said head on the side opposite the outlet opening, one of said handles being rigid with said head and the other extending over said head and being pivoted to said head on the side having said outlet opening, and being positioned to engage said button to depress said valve when said pivoted lever is moved toward said fixed lever, another of said bores comprising a cartridge bore having at its lower end a piercing pin having a central hole therein communicating by a passage with the interior of the container, said last named bore being of a size and shape to receive a gas cartridge of the type adapted to carry gas under pressure and to release the same when punctured, said cartridge bore being adapted to support such a cartridge in position to be forced against said puncturing pin just before the pivoted handle is moved enough to open said valve whereby the cartridge is punctured just before the valve is opened.

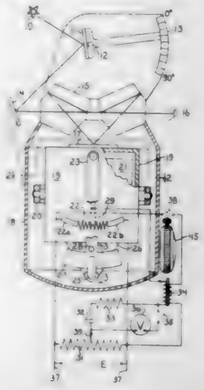
2,533,686

GYROSCOPIC SEXTANT

John B. Peterson, Bethesda, Md.; Ruth L. Peterson administratrix of said John B. Peterson, deceased

Application May 14, 1946, Serial No. 669,547

6 Claims. (Cl. 33—70)



3. A gyroscopic sextant comprising a gyroscopic horizon, means for measuring the altitude of a celestial body from said gyroscopic horizon as a reference, a pendulum mounted upon said gyroscopic horizon, an electric circuit including a condenser, means in said circuit and controlled by said pendulum for charging said condenser to a voltage proportional to the difference between said gyroscopic horizon and the true horizon as represented by the average position of said pendulum, and means in said circuit for determining the voltage to which said condenser is charged as an indication of the correction to be applied to said altitude measurement.

2,533,687

MAGNETIC FOCUSING DEVICE

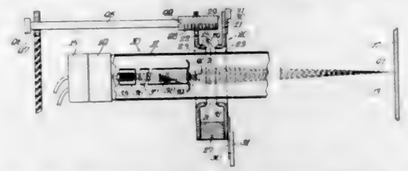
James P. Quam, Chicago, Ill., assignor to Quam-Nichols Company, Chicago, Ill., a corporation of Illinois

Application May 27, 1949, Serial No. 95,731

4 Claims. (Cl. 250—161)

1. A magnetic structure for focussing a beam of electrons including in combination, a pair of

pole pieces, said pole pieces each having a body portion with a beam receiving opening therein, and with said body portions being spaced apart from one another, permanent magnet means extending between said body portions of said pole pieces, said pole pieces each having a part on the inward side thereof at said opening, said parts providing an air gap therebetween having a substantially constant length less than half the spacing between said body portions of said pole pieces, at least one of said parts on said inward side having a bevelled annular edge as a pole



face for providing a concentrated field in said air gap, and adjustable means on one of said pole pieces for providing a shunt magnetic path between said pole pieces to adjust the strength of the magnetic field in said annular air gap, said permanent magnet means and said adjustable means being magnetically coupled to said pole pieces and being radially spaced from said body portion openings so that the magnetic field is distributed through said pole pieces and the field in said annular air gap is substantially uniform.

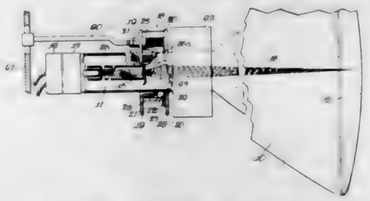
2,533,688

FOCUSING DEVICE

James P. Quam, Chicago, Ill., assignor to Quam-Nichols Company, Chicago, Ill., a corporation of Illinois

Application January 31, 1950, Serial No. 141,473

11 Claims. (Cl. 250—161)



1. A device for focussing an electron beam and for shifting the position thereof comprising, a magnetic structure including first and second spaced pole pieces made of material of low reluctance and having relatively large beam receiving openings therein, a centering plate made of material of low reluctance slidably supported on said first pole piece on the side thereof toward said second pole piece, said centering plate having an opening therein for receiving said beam which is smaller than said opening in said first pole piece, said second pole piece having a substantially flat main portion and an integral rim portion at said opening therein extending toward said centering member and forming an annular air gap therewith, said main portion of said second pole piece having a small opening therein, and a single control handle for said centering plate having a first portion positioned in said small opening in said second pole piece for limited universal movement with respect thereto, said handle having a second portion engaging said centering plate for shifting said plate in any desired direction in its plane for shifting said beam with said second portion moving through a wider area than does said first portion and with said single control handle accomplishing all of the shiftability of said centering plate.

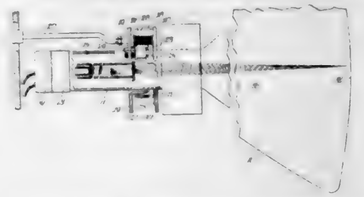
2,533,689

MAGNETIC FOCUSING DEVICE

James P. Quam, Chicago, Ill., assignor to Quam-Nichols Company, Chicago, Ill., a corporation of Illinois

Application June 28, 1950, Serial No. 170,908

7 Claims. (Cl. 250—161)



1. A magnetic structure for focussing a beam of electrons including in combination, a pair of pole pieces each having a body portion with a beam receiving opening therein, and with said body portions being spaced apart from one another, permanent magnet means extending between and magnetically coupled to said pole pieces, at least one of said pole pieces having an inturned annular portion at said opening therein providing an annular air gap with the other one of said pole pieces having a width less than one-half the spacing between said body portions of said pole pieces, said inturned annular portion having a bevelled annular edge as a pole face for providing a concentrated field in said air gap, an annular magnetic sleeve about said annular portion of said one pole piece, and adjustable mounting means for said sleeve for providing movement of said sleeve along said annular portion in the space between said body portions of said pole pieces to thereby form an adjustable shunt magnetic path between said pole pieces.

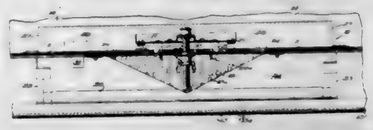
2,533,690

GERMICIDAL LIGHT ARRANGEMENT FOR VENTILATED SPACE

George K. Raider, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey

Application May 3, 1949, Serial No. 91,204

1 Claim. (Cl. 21—74)



In a ventilating system for a room for human occupancy including primary and secondary plenum ducts, valve means for controlling the flow of air from said primary to said secondary plenum duct to maintain a uniform low pressure and reduced velocity of air therein, and a plate between said secondary plenum duct and said room having a multitude of small perforations for the distribution of air therethrough into said room and having marginal imperforate portions, the improvement whereby the air in said secondary plenum duct is germicidally treated while at a low pressure and a low velocity and just prior to distribution through said perforated

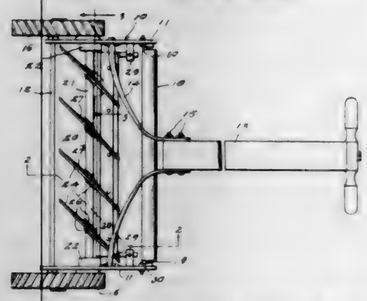
plate, which improvement comprises a germicidal lamp disposed in closely spaced relation to one of said imperforate marginal portions along the length thereof, the spacing and angular relationship to the perforated portion of said plate being such that said lamp effectively irradiates the space within said secondary plenum duct with no possibility of emitted rays passing directly through any of said perforations and thus irradiating humans within said room.

2,533,691

LAWN MOWER CUTTING REEL

John Remonte, Corsicana, Tex., assignor of one-half to Charles F. Dominy, Fort Worth, Tex.

Application August 11, 1947, Serial No. 767,997
2 Claims. (Cl. 56—249)



1. A lawnmower comprising a pair of side members, a traction wheel journalled in each of said side members and having an annular inner gear formed thereon, a rotary cutting reel journalled between said side members and to the rear of said traction wheels, said cutting reel including a shaft, a plurality of obliquely disposed elliptical cutter discs fixed to said shaft, and a spur gear fixed to each of the opposite ends of said shaft and engaging the inner gear on the adjacent one of said traction wheels, a stationary cutter blade disposed behind and below said shaft and having a straight edge extending forwardly contacting the peripheral edges of said cutter discs to the rear of the lowest points thereof, cutter blade mounting means on said side members adjustably mounting said cutter blade therebetween for movement in a horizontal direction whereby said cutter blade may be moved forwardly to maintain contact with said cutter discs, and a roller disposed to the rear of said cutter blade journalled between said side members and vertically adjustable relative thereto.

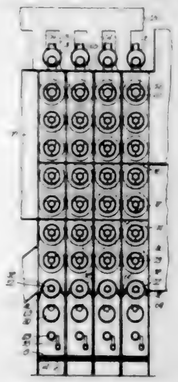
2,533,692

AIR AND WATER HEATING FURNACE

Clayton E. Rice, Chicago, Ill.

Application December 31, 1946, Serial No. 719,359
1 Claim. (Cl. 126—101)

A heating apparatus assembly comprising a plurality of units, said units comprising relatively narrow front and back walls connected at their lower portions by a fire wall dividing the space between the front and back walls into a lower combustion chamber and an upper air heating chamber, side walls for the heating assembly joining the outer edges of the outer front and back wall units and fire wall units, a top wall connecting the front, back and side walls, a fire tube assembly in each unit communicating at its lower end with the combustion chamber and having a plurality of forwardly and rearwardly extending passes in the upper air heating chamber, said fire tube passes being spaced apart to provide air passages therebetween, a water tube assembly in each unit including at least one pass extending within the combustion chamber and a plurality of passes extending within fire tube passes in the upper chamber, means for introducing air into the lower portion of the air heating chamber through a side wall, baffles in the air heating chamber extending alternately from each side wall toward the other in staggered relation between fire tube passes, and means for withdrawing heated air from the upper portion of the assembly.

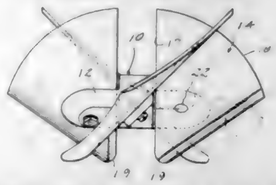


2,533,693

ROTARY PLOW

Eustace Loring Rose, Dunbar, W. Va., assignor to Gravely Motor Plow and Cultivator Company, Dunbar, W. Va.

Original application April 30, 1945, Serial No. 590,994. Divided and this application February 9, 1948, Serial No. 7,072
2 Claims. (Cl. 97—212)



2. A rotary plow comprising a hub, a plurality of radial arms fixed to said hub and each formed with the upper surface thereof inclined to the vertical, a sector shaped plow blade fixed to each of said arms on the inclined upper surface thereof, each of said blades being disposed with the apex thereof lowermost and the inner edge lying within a vertical plane, the inwardly inclined outer edge of each of said blades being beveled to provide cutting means, said blades being formed concave longitudinally and upwardly.

2,533,694

CONDITIONING IRON CATALYST

Robert V. Safford, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application February 1, 1947, Serial No. 725,974
4 Claims. (Cl. 260—449.6)

1. In the method of treating a finely divided iron catalyst having an alkali metal compound

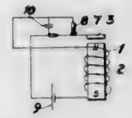
adsorbed thereon and tending to agglomerate at temperatures above about 700° F., the steps of passing a reducing gas upwardly through a body of the iron catalyst initially in a dense turbulent suspended phase, increasing the temperature of the catalyst phase above about 700° F. until there is a tendency for the catalyst to settle from the suspended phase, decreasing the temperature to a point where the catalyst is freely suspended in the dense turbulent phase, and alternately increasing and decreasing the temperature as to maintain the catalyst at the highest temperature level at which the body of catalyst can be maintained in the dense turbulent suspended phase.

2,533,695

ELECTROMAGNETIC VIBRATOR

Dag Sigurdsson Schreiber, Lidingo, Sweden, assignor to AB W. Dan Bergman, Sodertalje, Sweden, a joint-stock company of Sweden

Application December 18, 1945, Serial No. 635,802
In Sweden January 31, 1945
4 Claims. (Cl. 318—129)



1. An electromagnetic vibrator adapted to be operated from a source of direct current comprising a magnetic core having a pair of juxtaposed pole pieces and a permanent magnet section for polarizing the same, a spring mounted armature disposed adjacent said pole pieces for motion relative thereto, a driver coil surrounding said core, a set of contacts periodically opened and closed upon movement of said armature and through which contacts said coil is connected to the source, and a condenser connected in circuit with said coil, said coil and condenser forming an oscillatory circuit having a resonant frequency substantially equal to the mechanical natural frequency of said spring mounted armature.

2,533,696

DIBORANE PURIFICATION PROCESS

George W. Schaeffer, St. Louis, Mo., and Glen D. Barbaras, Cleveland, Ohio, assignors to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application September 9, 1949, Serial No. 114,900
6 Claims. (Cl. 23—204)

1. The process of recovering diborane from a mixture of diborane and ethane, which comprises contacting said mixture with a pyridine to produce a complex compound of pyridine and diborane, removing the ethane from said complex compound by fractional distillation, and then reacting said complex with a boron halide whereby the diborane is freed.

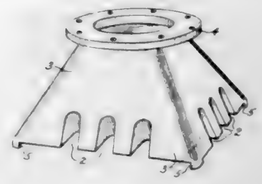
2,533,697

SUCTION BOX

John W. Stewart, New York, N. Y., assignor to Sir Joseph W. Isherwood & Co., Ltd., New York, N. Y., a corporation of Great Britain

Application November 22, 1948, Serial No. 61,349
In Great Britain March 1, 1948
5 Claims. (Cl. 103—202)

1. A suction box for evacuating liquids from storage tanks, comprising upwardly and inwardly converging side walls, a plurality of feet for supporting said box upon the floor of a storage tank with the lower edges of said walls spaced from



the tank floor, and a plurality of inwardly projecting pockets formed in the lower edge of said walls, each pocket being open only at its bottom and at its outward end.

2,533,698

URETHANES CONTAINING THE LYSERGIC ACID RING SYSTEM AND A PROCESS OF MAKING SAME

Arthur Stoll, Albert Hofmann, and Franz Troxler, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland

No Drawing. Application December 16, 1947, Serial No. 792,095. In Switzerland December 18, 1946
8 Claims. (Cl. 260—285.5)

1. The optically active urethanes of the formula R.NHCOOR′, wherein R denotes a radical selected from the group consisting of 6-methyl-ergolenyl-8-, of 6-methyl-isoergolenyl-8- and of a mixture of 6-methyl-ergolenyl-8- and 6-methyl-isoergolenyl-8- and R′ denotes an alkyl group containing 1 to 4 carbon atoms, which urethanes give the Keller's color reaction and which are therapeutically useful compounds.

5. A process for the preparation of a urethane containing the lysergic acid ring system and corresponding to the formula R.NH.COO.R′, wherein R denotes a member selected from the group consisting of the 6-methyl-ergolenyl-8- and 6-methyl-isoergolenyl-8-radicals, and R′ denotes an alkyl group with 1 to 4 carbon atoms, which comprises boiling an azide selected from the group consisting of lysergic acid azide, isolysergic acid azide and a mixture of lysergic and isolysergic acid azides in an anhydrous non-alcoholic solvent with a boiling low molecular alcohol containing 1 to 4 carbon atoms.

2,533,699

AMINES CONTAINING THE RING SYSTEM OF LYSERGIC ACID OR DIHYDROLYSERGIC ACID AND A PROCESS OF MAKING SAME

Arthur Stoll, Albert Hofmann, and Franz Troxler, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland

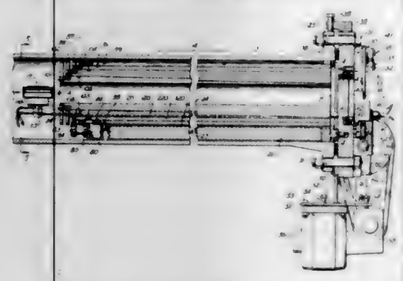
No Drawing. Application December 16, 1947, Serial No. 792,096. In Switzerland December 20, 1946
8 Claims. (Cl. 260—285.5)

2. A process for the manufacture of 6-methyl-8-amino-ergolene, which comprises the step of boiling lysergic acid azide in a dilute aqueous solution of hydrochloric acid until the evolution of nitrogen and carbon dioxide has ceased.

2,533,700
NONFOAMING LUBRICANT COMPOSITION
Joseph S. Wallace, Browns, Ala., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application September 6, 1946, Serial No. 695,297
5 Claims. (Cl. 252—33)

1. A lubricant composition which is substantially non-foaming in the presence of a high molecular weight fatty compound selected from the group consisting of high molecular weight fats, high molecular weight fatty acids and heavy metal soaps of high molecular weight fatty acids, consisting essentially of a major proportion of a hydrocarbon lubricating oil, a small amount but not more than 0.1%, of a polymeric organic silicon compound selected from the group consisting of a normally liquid polydimethyl siloxane and a normally liquid polydimethyl silicate, and a small amount but not more than 3%, of an alkali soap of a preferentially oil-soluble petroleum sulfonic acid.

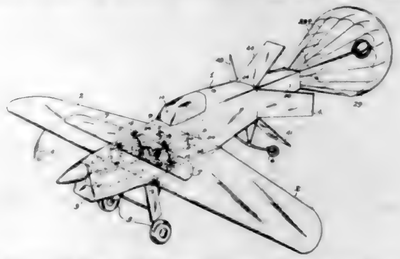
2,533,701
COLLIMATING SHIELD
Robert D. Watt and Warren N. Watson, El Cerrito, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application January 11, 1950, Serial No. 138,024
19 Claims. (Cl. 250—108)



1. In a particle accelerator adapted to provide a beam of charged particles, the combination comprising a fixed shield, a collimating tube rotatably mounted in said shield, said tube having a bore with the axis thereof inclined to the tube axis, means focusing the beam upon the bore axis at one end of said tube, means for rotating said tube thereby to render the bore axis thereof parallel to said beam, and target means disposed exteriorly of the shield in intersecting relation to said beam passing through the tube.

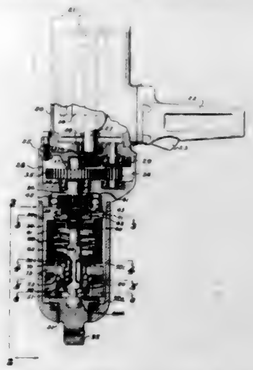
2,533,702
PILOT OPERATED CONTROL SYSTEM FOR AIRCRAFT
Chalmers L. Weaver, St. Louis, Mo.
Application August 14, 1945, Serial No. 610,715
8 Claims. (Cl. 244—83)

1. In an airplane, a fuselage having a tail providing top, bottom and side surfaces, a relatively rigid panel-like steering and braking flap transversely pivoted to each of said surfaces, an angle bracket secured to each of said flaps and having an arm projecting into said fuselage, a flap operating cable secured to each of said bracket arms, a cockpit in the forward portion of said fuselage and providing a pilot's seat, spaced upstanding tubular posts secured to the cockpit floor and defining the corners of a rectangle, a torso-actuated panel at each side of said post-provided rectangle and horizontally pivoted intermediate its ends to adjacent corner posts, said respective flap actuating cables secured to the lower ends of different ones of said panels, direction changing means for guiding said cables and located outwardly of said post-provided rectangle, a frame having depending corner rods slidable in the respective tubular corner posts, yield-



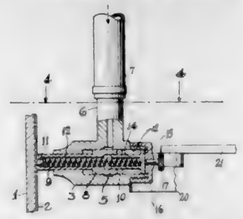
ing means in each of said corner posts and bearing against said depending rods for normally urging said frame upwardly, and said cable actuating panels having inwardly inclined portions above their pivots and disposed in the path of said frame when the latter is depressed against the action of said corner post contained yielding means whereby to effect simultaneous inward cable-pulling movement of said panels for effecting simultaneous outward actuation of said flaps to braking position.

2,533,703
IMPACT NUT RUNNER
Glenn C. Wilhide, James N. Baker, and Frank L. Holford, Towson, Md., assignors to The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland
Application June 21, 1947, Serial No. 756,114
13 Claims. (Cl. 192—30.5)



1. In a tool of the character described, the combination of a casing a driving and a driven clutch member having cam declutching teeth, a spring reacting on the casing for yieldingly maintaining the members engaged against the camming action of the teeth during a normal nut running operation, a hammer revolvably mounted upon the driving clutch member and having an impact shoulder adapted to strike an impact shoulder on the driven clutch member, a drive shaft surrounded by the spring and spline connected to the hammer carrying clutch member, the last mentioned clutch member being movable on the drive shaft to move the hammer axially of said shaft, means for limiting relative revolving movement between the hammer and its clutch member, and a torsion member connecting the shaft and hammer with the said impact shoulders normally circumferentially spaced apart, the declutching camming action being such that relative rotation between the shaft and the hammer effects accumulation of rebound energy in the torsion member during the separating actions of the clutch teeth and while the hammer is being shifted by the camming action axially relative to the shaft.

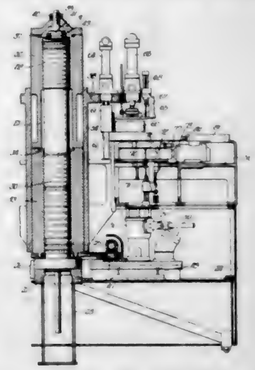
2,533,704
LIQUID APPLICATOR FOR GLUING MACHINES
Andrew D. Zanetti, San Francisco, Calif.
Application April 2, 1949, Serial No. 85,071
4 Claims. (Cl. 91—12)



1. In a liquid applicator, a tubular body having a liquid inlet opening in its side, a tubular reciprocating piston mounted in the body and having a tubular extension at one end, the said extension projecting from one end of the body and having an inlet at its inner end communicating with the hollow piston and an outlet at its opposite end, the said piston having liquid inlet means at its opposite end, a valve member positioned in the outlet of the said extension and arranged to close and open the outlet of the tubular extension, the said valve member when in its closed position being arranged to project beyond the outlet end of the tubular extension, a helical spring positioned inside the tubular extension for yieldably urging the valve member toward its closed position, an adjustable member secured within the tubular body and extending into the tubular piston, the said adjustable member being arranged to close the inlet means of the piston when the body is moved to a position wherein the valve member and the tubular member engages with a surface to which the liquid is to be applied.

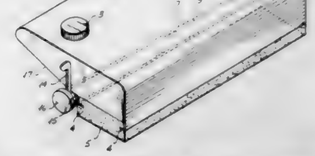
2,533,705
HYDRAULIC CONTROL APPARATUS
Julius A. Zinn, Jr., Chicago, Ill., and Odd Wennberg, Manhasset, N. Y.; said Wennberg assignor to said Zinn
Application March 13, 1948, Serial No. 14,794
3 Claims. (Cl. 60—97)

1. Apparatus for the control of fluid power comprising a central member circular in cross section, a housing assembly closely fitted on the central member, means for causing relative rotation between the central member and housing assembly, a plurality of fluid passages in the central member, ports in the outer surface of the central member communicating with the passages, certain of the central member passages carrying fluid under different pressures, other of said passages serving to drain fluid, certain ports in the central member located in the same transverse plane leading to the passages carrying fluid under the different pressures and a drain passage, the housing having a plurality of axially spaced ports, certain of said ports being located in such



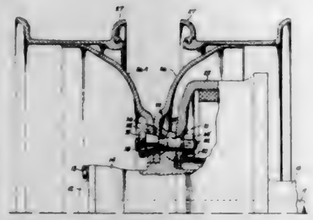
transverse planes as to consecutively register with ports carrying fluid under different pressures and a drain port during relative rotation of the central and housing members, the housing having passages leading from said ports to fluid power operated apparatus.

2,533,706
FLOOR WAXER AND POLISHER
Pasquale J. Acocella and Dominick Capaccione, Brooklyn, N. Y.
Application February 9, 1950, Serial No. 143,208
2 Claims. (Cl. 91—25)



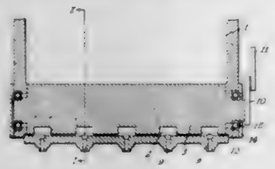
1. A waxing and polishing device comprising: a container for wax provided across its bottom with an outer tube having wax inlet openings on the upper side of the tube interiorly of the container and outlet openings on the bottom of the tube exteriorly of the container, one of the ends of said outer tube projecting outwardly beyond said container, a circumferentially extending arcuate slot in the upper portion of said projecting end of said outer tube, an inner tube seated within the outer tube with a close rotatable fit and provided with openings adapted through rotation of the inner tube to register with the openings of the outer tube to regulate the feed of wax from the container to the surface to be treated, a finger-piece secured to the inner tube and extending through said arcuate slot in the outer tube for arcuately adjusting the inner tube, means for closing both ends of both tubes, holding flanges extending transversely of the under side of the container for detachably supporting a spreader beneath the container, and a spreader detachably mounted in said flanges.

2,533,707
VEHICLE WHEEL
Charles S. Ash, Milford, Mich.
Application November 30, 1946, Serial No. 713,369
8 Claims. (Cl. 301—9)



8. A vehicle wheel capable of being mounted individually or in oppositely dished pairs on a vehicle hub having a plurality of axially extending wheel mounting bolts by means of conical nuts cooperable with said bolts, comprising a dished annular web having a number of circumferentially spaced tapered apertures equal to double the number of said mounting bolts and adapted to receive said bolts through alternate apertures, each said apertures being tapered oppositely but with equal inclination to the apertures on either side and the minor diameter of one series of alternate apertures being equal to the major diameter of the other series of alternate apertures.

2,533,708
APPARATUS FOR CASTING CHOCOLATE, CREAM AND OTHER CONFECTIONERY PASTE
Kai Christian Sophus Aasted, Gentofte, Denmark
Application July 5, 1947, Serial No. 759,260
In Denmark July 10, 1946
2 Claims. (Cl. 107—28)

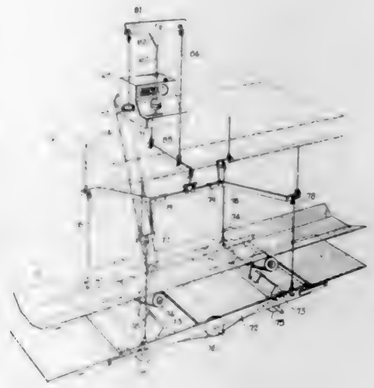


1. Apparatus for casting chocolate, cream and other confectionery paste, which comprises a cylindrical container, a feeder bin communicating therewith, said container being provided with casting pistons and complementary casting nozzles, a mechanically operated valve member positioned in said cylindrical container, bearings supporting each end of said valve member independently of said cylindrical container whereby to maintain it in predetermined spaced relationship with the inner surface of the said cylindrical container, said valve member being provided with chambers whereby to connect the casting cylinders alternately with the feeder bin and the casting nozzles, and a predetermined clearance being provided between the outer surface of said valve member and the inner surface of said cylindrical container sufficiently great to prevent sintering of sugar crystals contained in the confectionery masses processed in the apparatus while maintaining the tightness necessary to confine the said confectionery mass.

2,533,709
LEAD-ACID TYPE ELECTRIC ACCUMULATORS
Walter Elliott Batt, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application October 5, 1945, Serial No. 620,654. In Great Britain October 12, 1944
2 Claims. (Cl. 136—26)

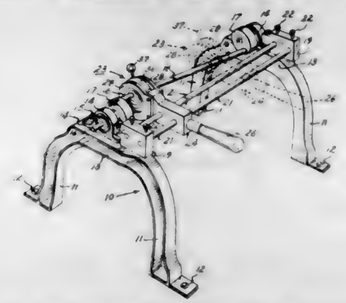
1. A method of treating negative active materials of lead peroxide-lead-sulphuric acid accumulators of the type that are stored without electrolyte, comprising the step of applying zinc in contact with the previously charged negative active material.

2,533,710
INTEGRATING MECHANISM
Louis A. Biehler, Stanhope, N. J., assignor to Sintering Machinery Corporation, Netcong, N. J., a corporation of New Jersey
Application February 2, 1949, Serial No. 74,219
6 Claims. (Cl. 74—691)



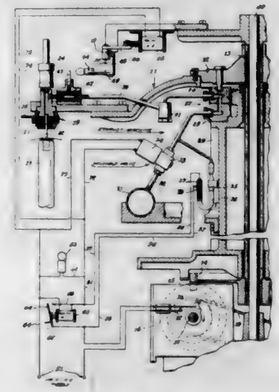
1. In an integrating mechanism, the combination comprising a rotatable disc, means for rotating same at speeds variable in proportion to changes in value of one quantity to be integrated, a pair of wheels frictionally engaging said disc on opposite sides of its axis of rotation and normally equally distant from said axis, whereby the wheels are caused to rotate in opposite directions normally at the same speed by the rotation of said disc, a carriage assembly disposed above said disc, bearing supports for said wheels rotatably mounted on said carriage to permit skewing of the wheels, lever means connected to one of said bearing supports and movable responsive to changes in another quantity to be integrated, rotary motion reversing link means interconnecting said supports to cause the wheels to become oppositely skewed on the disc to promote movement of the wheels and carriage over the disc in response to changes in said last-mentioned quantity, means including differential gearing mounted on said carriage assembly, and a pair of flexible shafts respectively interconnecting said wheels and said differential gearing to drive such gearing responsive to relative differences between the speeds of the wheels.

2,533,711
VIBRATING APPARATUS
John W. Bridges, Oklahoma City, Okla.
Application March 31, 1948, Serial No. 18,219
5 Claims. (Cl. 128—63)



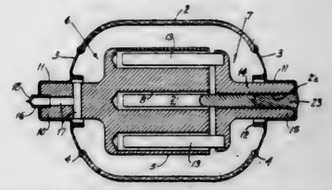
1. In mechanism for adjustably converting rotary movement into reciprocable motion, the combination with a pair of spaced axially aligned rotatably mounted elements connected together by a rod, said rod being slanted with relation to the rotative axis of the elements, of: a connecting member slidable on the rod and within which the rod is journalled; means for independently anchoring said member in various selective positions with relation to the longitudinal extent of the rod; and a reciprocatable element engaged by the connecting member.

2,533,712
EXHAUST VALVE WITH LEAK DETECTOR
John M. Campbell, Fairmont, W. Va., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1944, Serial No. 528,570
10 Claims. (Cl. 73—40)



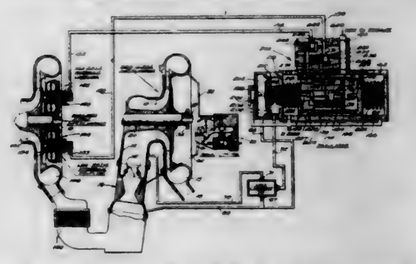
1. In combination with an exhaust machine comprising a conveyor with a head to receive the exhaust tube of a device to be evacuated through a vacuum line, a pressure-sensitive circuit controlling device connected to said line, and with contacts so adjusted that under normal vacuum conditions said contacts are electrically disconnected, while when a leak develops in said line the increase in pressure beyond a predetermined point causes said contacts to be electrically connected, a solenoid-controlled valve in said line between the said controlling device connection and said exhaust machine, said valve being normally closed to cut off said line from said exhaust machine, means connecting said contacts including an initially open switch, a holding solenoid the armature of which when operated provides a circuit in parallel with said contacts to a source of electrical energy, the solenoid of said valve and a leak indicator, and means for closing said switch as a device being evacuated is indexed for leak-test, whereby when a leak occurs after the device indexes and the initially-open switch closes, the pressure developed in the exhaust line effects an electrical connection of said contacts allowing current to flow therebetween, energizing the holding solenoid to operate its armature, and establish said holding circuit and a circuit through the leak indicator and energize said valve solenoid.

2,533,713
VACUUM CONDENSER
Richard H. Chamberlin, San Bruno, and Harold E. Sorg, Redwood City, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application May 27, 1947, Serial No. 750,828
1 Claim. (Cl. 175—41)



A vacuum condenser comprising an envelope having an end structure with a passage therein, an electrode set supported at the opposite end of the envelope and having parallel bores, another electrode set supported at the first mentioned end of the envelope and having pins projecting into said bores, adjusting means threaded into said passage for varying the degree of engagement of one of said pins, and a vacuum tight closure for the outer end of the passage.

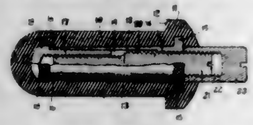
2,533,714
SUPERCHARGER CONTROL
Richard J. Coar, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 6, 1948, Serial No. 58,709
15 Claims. (Cl. 123—119)



1. In an induction system for an engine, a supercharger and a throttle in said induction system, means including a variable slip fluid coupling for driving said supercharger, and means responsive to the pressure drop across said throttle for controlling the speed of said supercharger

by varying the slip of said fluid coupling, said last named means including a tuned venting chamber for stabilizing the control.

2,533,715
EXPANSIBLE TUBE PLUG
Alfred A. Conklin, West Haven, and Raymond G. Sherman, North Haven, Conn.
Application November 26, 1946, Serial No. 712,290
3 Claims. (Cl. 220—24.5)



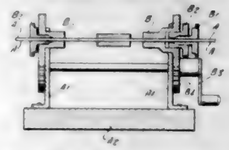
1. A tube plug comprising a molded rubber body closed at one end and having an axial aperture intersecting its opposite open end; and means mounted in the axial aperture of said body for positively expanding and contracting said plug laterally, said means comprising an internally-threaded sleeve molded in situ in the open end of said body, an internally-threaded nut molded in situ the closed end of said body in axial alignment with said sleeve, the threads of said nut being reverse to the threads of said sleeve, and an externally-threaded screw in the open end of said body, said screw having reversely-threaded sections arranged to engage said threaded sleeve and said threaded nut respectively to move said sleeve and nut axially simultaneously and in opposite directions thereby to positively elongate and positively contract the rubber body of said plug.

2,533,716
ELECTRICAL CONDENSER
Philip Ray Coursey, Liss, England, assignor to Engineering Development Laboratories, Inc., New York, N. Y., a corporation of New York
Application February 28, 1947, Serial No. 731,507
In Great Britain December 6, 1946
9 Claims. (Cl. 175—41)

1. An electrical condenser comprising a core formed of at least one thread of insulating material, a plurality of interleaved flexible conducting and insulating elements wound spirally on said core to form a rolled unit, the conducting elements projecting from the confines of the insulating elements at opposite ends of the rolled unit respectively so as to form terminal connections, an insulating tube embracing the rolled unit, said tube being metallised adjacent to the said terminal connections, and terminal leads soldered to the terminal connections and to the metallised parts of the tube so as to seal the rolled unit within the tube.

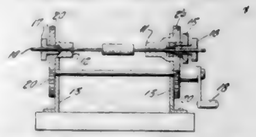
4. An electrical condenser comprising a core formed of a plurality of threads of insulating material and a plurality of interleaved conducting and insulating strips, one of said strips having an end inserted between the threads of said core and the remaining strips being successively inserted in longitudinally staggered relation between said first mentioned strip and said core and wound therewith into a rolled condenser unit.

2,533,717
METHOD OF MAKING ELECTRICAL CONDENSERS
Philip Ray Coursey, Kingston, England, assignor to Engineering Development Laboratories, Inc., New York, N. Y., a corporation of New York
Original application February 28, 1947, Serial No. 731,507. Divided and this application May 14, 1948, Serial No. 26,997
8 Claims. (Cl. 242—55)



6. The method of manufacturing electrical condensers of the rolled type comprising spirally winding flexible and insulating layers upon a rotating core consisting of at least one thread of insulating material, and applying mechanical tension to said core during the winding operation.

2,533,718
METHOD OF MAKING ELECTRICAL CONDENSERS
Philip Ray Coursey, Kingston, Charles Henry Munday, Barnes, and Kathleen Agnes Gough Sutton, England, assignors to Engineering Development Laboratories, Inc., New York, N. Y., a corporation of New York
Original application December 27, 1946, Serial No. 718,634. Divided and this application May 14, 1948, Serial No. 26,998. In Great Britain May 13, 1946
9 Claims. (Cl. 242—55)

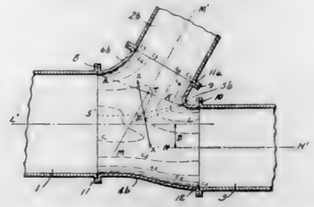


7. A method of manufacturing electrical condensers of the rolled type comprising spirally winding flexible insulating and conducting layers upon a rotating conducting wire core, and applying tension to said core during the winding operation.

2,533,719
DEVICE FOR FOUR-COLOR STEREOSCOPIC CINEMATOGRAPHY BASED ON ADDITIONAL SYNTHESIS
Luigi Cristiani, Firenze, Italy
Application August 12, 1947, Serial No. 768,210
In Italy July 3, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 3, 1963
4 Claims. (Cl. 88—16.6)

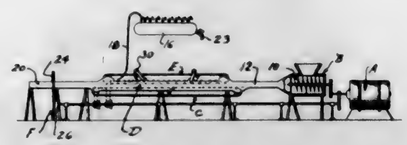
1. An optical device for stereoscopic color cinematography comprising a forward objective, a double pair of mirrors immediately disposed before said forward objective and spaced so as to provide a stereoscopic basis, a window, a field lens for collecting pencils coming from said forward objective, an intermediate objective to which said pencils are conveyed, the focus of said field lens and said intermediate objective being positioned in said window, whereby rays of light coming from said intermediate objective form parallel pencils, a pyramidal prism provided with four faces and having the vertex disposed to coincide with the optical axis, two of said prismatic faces displacing light rays coming from the right image, the other two faces displacing light rays coming from the left image, filter means adjacent said pyramidal prism and covering each a single prismatic face, and a rear objective placed rearwardly of said filter means for projecting the pairs of images adjacent each other onto a surface.

2,533,720
BRANCH PIPE BREECHING FOR PRESSURE CONDUITS
Pierre F. Danel, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France, a corporation of France
Application April 20, 1948, Serial No. 22,093
In France April 30, 1947
5 Claims. (Cl. 285—210)



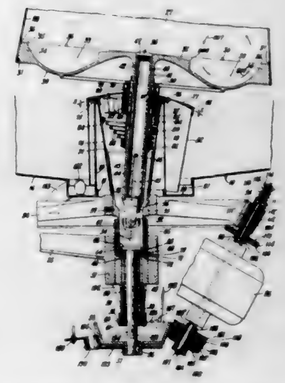
1. A breeching for establishing a branch pipe connection to a main pressure conduit which comprises an open-ended tubular member having a branch off-take connection in a side wall thereof and openings at its opposite ends larger than said connection and adapted to be brought into registering relation, respectively, with the upstream section of said main conduit and with the downstream continuation thereof, said opening at the downstream end of said breeching being offset laterally with respect to the opening at the upstream end toward the side of said breeching opposite said branch off-take connection.

2,533,721
MACHINE FOR MOLDING CONCRETE BRICK
Eugene De Luca, Philadelphia, Pa.
Application January 28, 1947, Serial No. 724,837
1 Claim. (Cl. 25—14)



In a brick manufacturing machine, a concrete mixing and extruding chamber, a cross-section forming neck, a vacuum chamber, a plurality of taut conveyor belts arranged to convey and confine a concrete strip throughout said vacuum chamber, a second forming neck, a brick-length cutter, and means for synchronizing the operation of said mixing and extruding chamber, said conveyor belts, and said cutter.

2,533,722
BALANCING CENTRIFUGAL DRYING AND WASHING MACHINE
Jay Grant De Remer, Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J., a corporation of New Jersey
Application July 14, 1943, Serial No. 494,598
28 Claims. (Cl. 68—23)



1. A combined washing and drying machine comprising in combination, a receptacle adapted to receive articles to be washed and centrifugally dried; a rotor shaft supporting said receptacle; a universal support for said rotor shaft; a hollow gyrator shaft surrounding said rotor shaft; a pair of friction members mounted on said rotor shaft and gyrator shaft, respectively; and a spring urging said friction members together.

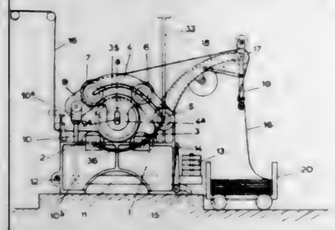
2,533,723
CATALYTIC AMINE-KETONE CONDENSATION
Bernard A. Dombrow, New York, N. Y., assignor to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application July 28, 1947, Serial No. 764,253
9 Claims. (Cl. 260—566)

1. In a process for the production of a Schiff's base by reacting a non-olefinic ketone which contains at least five carbon atoms per molecule with a primary amine, the reaction between the ketone and the amine resulting in the linking by a double bond of the carbonyl carbon atom of the ketone to the nitrogen atom of the primary amine group of the primary amine compound with the splitting out of water, the improvement which comprises carrying out the reaction between the ketone and the primary amine under non-hydrogenating conditions in the presence of a surface active clay catalyst.

2,533,724
CALENDER, INCLUDING UPPER AND LOWER ROLLERS WITH IMPROVED GUIDING AND LIFTING MEANS FOR CENTRAL ROLLER MEANS
Julien Dungler, Basel, Switzerland
Application June 8, 1946, Serial No. 675,361
In France February 20, 1946
3 Claims. (Cl. 38—49)

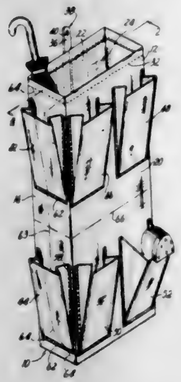
1. In a calender; a fixed lower frame, an arc-shaped upper frame pivoted for swinging movement with respect to said lower frame, lower

rollers fixedly mounted for rotation on said lower frame, upper rollers fixedly mounted for rotation on said upper frame, a central roller positioned between said upper and lower rollers, spaced parallel guide lugs depending from said upper frame, said guide lugs being provided with elongated slideways having upper and lower



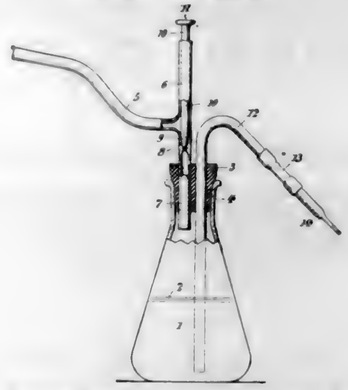
limits, said central roller having axles engaged for sliding movement within said slideways and being adapted to be lifted upon swinging movement of said upper frame to the extent that said axles abut against said lower limits whereby disengagement of said central roller from said upper and lower rollers will be brought about.

2,533,725
COLLAPSIBLE SUPPORT FOR UMBRELLAS, SHOES, AND THE LIKE
Daniel Eisenberg, Plainfield, N. J.
Application September 24, 1946, Serial No. 699,022
1 Claim. (Cl. 211—63)



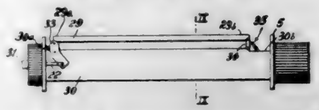
In a collapsible article carrier comprising an open-topped, rectangular bag of uniform horizontal cross-section and upwardly opening collapsible bellows pockets: a rigid flat rectangular panel at the bottom of the bag, and reinforcing means for the open mouth of the bag, said last-named means comprising a hollow rectangular metal frame extending around the entire open mouth of the bag, said panel and reinforcing means cooperating to maintain the rectangular shape of the bag, said reinforcing means having an integral suspension means for the bag, said suspension means comprising an upstanding tongue in one piece with the metal frame and having an opening therein.

2,533,726
CONTINUOUS DELIVERY CHEMICAL WASH BOTTLE
Norman F. Floyd, Philadelphia, Pa., assignor to The Lankenau Hospital, Philadelphia, Pa., a corporation of Pennsylvania
Application August 22, 1946, Serial No. 692,169
1 Claim. (Cl. 23—292)



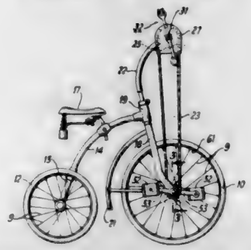
A chemical wash bottle and a fluid delivery attachment therefor comprising a closure element having openings therein, a delivery tube extending downwardly through one of said openings and terminating near the bottom of the wash bottle, a combined pressure and pressure-exhaust tube extending through another of said openings and terminating above the lower end of said delivery tube said pressure tube having a vertical extension with an upper opening closed to the atmosphere and a laterally extending branch open to the atmosphere, a valve seat positioned in said pressure tube below the point at which said tube branches, a valve member engaging said seat having a manually operable rod extending upwardly through said vertical extension, and closure means for said vertical extension arranged to permit operation of said valve rod while maintaining the upper opening of said vertical extension substantially closed to the atmosphere.

2,533,727
COPYHOLDER
Bedřich Fuchs, Prague, Czechoslovakia
Application September 11, 1946, Serial No. 696,176
In Great Britain September 13, 1945
1 Claim. (Cl. 120—30)



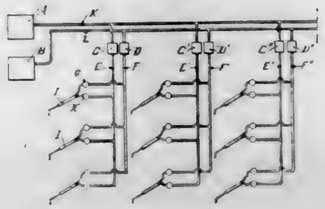
In a copy sheet holder and transcript checking device; a pair of adjacent and parallel horizontal rollers, means interconnecting the rollers for rotating the same in unison, spring-supported longitudinal clamp strips terminating in outer ends and forming paper sheet holder means adapted forming respective segments of said rollers and being complementary thereto, said rollers being provided with recesses positioned at the outer ends of said strips, link means connected to said outer ends of said strips and adapted to be accommodated in said recesses when said strips engage on said rollers, said link means being pivoted to said rollers and adjacent said recesses, and means extending parallel to the axis of each roller and articulated to one of said link means to thereby move said clamp strips parallel to the axis of each roller and in lengthwise direction thereof, said one link means forming a bell crank.

2,533,728
VELOCIPEDE
Curt R. Gedat, Middletown, Paul Schimmel, Bronx, and Samuel Lawrence Atkins, New York, N. Y.
Application November 16, 1946, Serial No. 710,360
6 Claims. (Cl. 280—233)



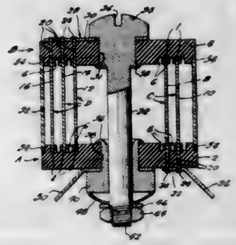
1. A velocipede including a front wheel and having both hand-operated and foot-operated propulsion means, said foot-operated propulsion means being mounted on the front wheel axle, a hollow hub surrounding said axle and affixed to said front wheel, and release mechanism mounted on said hub and having means for linking said hub and axle together at the option of the rider, thereby enabling said foot-operated propulsion means to become inoperative to propel said velocipede without affecting said hand-operated propulsion means.

2,533,729
OXYACETYLENE INSTALLATION FOR WELDING, CUTTING, OR THE LIKE
Robert René Louis Geffroy, Neuilly-sur-Seine, France, assignor to Société: Volcan S. A., Levallois, France
Application February 23, 1946, Serial No. 649,704
In France July 11, 1945
8 Claims. (Cl. 158—27.4)



1. In a distribution system for gases for oxyacetylene welding and the like, the combination with a container for supplying oxygen, a container for supplying acetylene, main pipes respectively connected to said containers to carry the respective gases therefrom, and a torch or the like connected to both said pipes for receiving said gases from both said pipes and simultaneously mixing said gases and delivering the mixed gases from said torch, of a gas pressure regulator connected in each main pipe separately to control the pressure of the respective gases from said containers, said regulators each having a valve for controlling the flow of a gas therethrough, means cooperatively associated with each said valve to balance it against variations in the pressure of the gas upstream from the valve, and a movable wall operatively connected to the valve and subjected on one side to the gas pressure downstream from the valve acting in a valve closing sense and on the opposite side to a substantially constant force acting in a valve opening sense, said valve, said wall and said balancing means cooperating to maintain the pressure at the downstream side thereof substantially constant with varying pressure at the upstream side thereof and with varying flow therethrough, said pipes between said regulators and said torch being constructed to provide for flow therethrough of the gases delivered thereto through the respective regulators without substantial drop in the pressure therealong.

2,533,730
VARIABLE CAPACITY CONDENSER
Adolph E. Gersch, Boonton, N. J., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey
Application December 8, 1948, Serial No. 64,080
16 Claims. (Cl. 175—41.5)

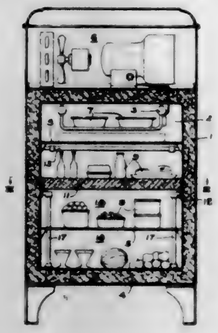


1. A variable capacity condenser comprising an insulating stator support having an arcuate groove on one side thereof, a partial-cylindrical type stator plate having arcuate cross section secured thereto adjacent said groove, a portion of said stator plate projecting through said stator support to the opposite side thereof, a conductive element secured to said portion, a conductive shaft mounted in said stator support, an insulating rotor support on said shaft opposite said stator support, a partial-cylindrical type rotor plate having an arcuate cross section secured to said rotor support opposite the groove in said stator support, a portion of said rotor plate projecting through said rotor support, a conductive element connecting said shaft with said portion, and said rotor support having an arcuate groove opposite said stator plate, said shaft, arcuate grooves and plates being concentric, the ends of said rotor and stator plates directed toward said stator and rotor supports respectively being slidably received within the grooves in said supports, both the rotor and stator plates thus being fixed in position at both ends and rendered vibration-resistant, a cylindrical dust shield between said stator and rotor supports outside said stator and rotor plates, and a resilient element operatively connected to said supports so as to urge them toward one another, said dust shield having a height such as to serve as the primary longitudinal structural element of the condenser, rigidly determining the spacing between said supports and relieving pressure on said stator and rotor plates.

2,533,731
BOBBIN FOR KNITTING YARN AND THE LIKE
Jacob Gomberg, Chicago, Ill.
Application June 3, 1949, Serial No. 97,031
3 Claims. (Cl. 242—116)

1. In a bobbin for holding wound yarn, or the like, in combination, a pair of oppositely disposed members mounted to axially move in respect to each other, spaced apart peripheral lips on said members, peripheral rims on said members below said lips, a sleeve on one of said members, a hub on the other member, said hub fitting within said sleeve, slots in said sleeve communicating with the outside of the member carrying said sleeve, a pair of oppositely inclined cams, one of each of said cams being disposed at opposite sides of the outside edges of said slots, a pair of outstanding lugs, at the free end of said hub, slidable in said slots, and when said members are assembled and axially moved, having relative movement with respect to said cams, a pair of upstanding fingers at the inner edges of said slots, two pairs of spaced ears at the base of said hub, said fingers, when the members are assembled and the rims are in contact, lying in the path of movement of said ears.

2,533,732
FOOD TREATING AND STORING REFRIGERATOR AND METHOD
Robert F. James, Mahwah, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1938, Serial No. 187,527
9 Claims. (Cl. 62—4)



1. In refrigeration apparatus, the combination of a cabinet, a porous partition for dividing the cabinet into two heat-insulated compartments, a heat-absorbing element disposed in one compartment to refrigerate the air therein and to cause a restricted circulation of refrigerated air through the porous partition to maintain the second compartment at a warmer refrigerated temperature, whereby dehydration of foodstuffs in the warmer compartment is inhibited, and ultra-violet radiating means disposed in the warmer compartment for preventing the growth of bacteria and molds, whereby foodstuffs are safely preserved in the warmer compartment.

2,533,733
EXTENSIBLE SKI POLE
Hans August Jensen, Lommedalen, near Oslo, Norway
Application January 18, 1946, Serial No. 641,909
In Norway December 22, 1943
2 Claims. (Cl. 280—11.37)

1. An extensible ski pole comprising two relatively telescoping hollow parts, one of said parts being provided with a reduced externally threaded terminal portion and external conical wall faces, a cylindrical locking member disposable within the other of said telescoping parts, the said locking member having slots extending over part of its length and having an internal axial bore and a reduced neck, the said neck being internally threaded and the said bore including conical wall faces for co-action with said external wall faces whereby the said reduced terminal portion is adapted to nest within the said bore and, upon rotation, to effect spreading of the locking member and thus interlocking of the two telescoping parts.

2,533,734
FLUORESCENT LIGHT SOCKET
William L. Kelman, Providence, R. I.
Application July 3, 1947, Serial No. 758,813
1 Claim. (Cl. 173—328)

A socket construction for a fluorescent light fixture, comprising a body portion, electrical contact elements having spring fingers and housed therein, and a bulb pin receiving member rotatably mounted in said body portion and having a slot for receiving bulb pins, said member being rotatable to bring the pins in said slot into contacting engagement with the contact element spring fingers said spring fingers each having an arcuate bulb pin engaging portions and reversely curved portions at each end of the arcuate portion, said body portion including a rearwardly extending hub, and diametrically opposed depressions in said hub on each side of said hub slot having arcuate central portions and end walls for releasably receiving the arcuate bulb pin portions and the reversely curved portions of the contact element spring fingers when the slot is in pin receiving position, whereby the bulb pin receiving member is releasably held in pin receiving position.

2,533,735
ELECTRIC RESISTANCE ELEMENT AND METHOD OF HEAT-TREATMENT
James M. Lohr, Morristown, N. J., assignor to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Original application May 11, 1946, Serial No. 669,103. Divided and this application December 16, 1948, Serial No. 65,731
4 Claims. (Cl. 201—76)

1. An electric resistance element comprising an alloy containing 10 to 30 percent chromium, 2 to 4 per cent aluminum, balance nickel, that has been annealed at a temperature of about 1700° F. to 2000° F. and heat treated for a period of one to five hours at a temperature of 900° F. to 1100° F., and having a temperature coefficient of resistance below .00008.

2,533,736
ELECTRIC RESISTANCE ELEMENT AND METHOD OF HEAT-TREATMENT
James M. Lohr, Morristown, N. J., assignor to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Original application May 11, 1946, Serial No. 669,103. Divided and this application December 16, 1948, Serial No. 65,732
6 Claims. (Cl. 201—76)

1. An electric resistance element comprising an alloy consisting essentially of 2 to 4 percent aluminum, .30 to 6.0 percent manganese, 10 to 30 percent chromium, balance nickel, that has been annealed at a temperature of about 1700° F. to 2000° F. and heat treated for a period of one to five hours at a temperature of 900° F. to 1100° F. and having a temperature coefficient of resistance below .00008.

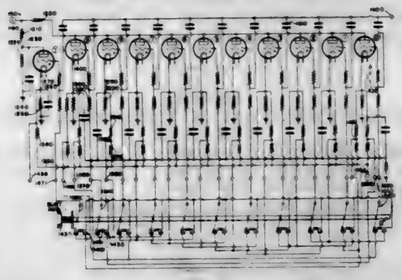
2,533,737
RESOLUTION OF CRUDE MOTHER LIQUORS OBTAINED IN MANUFACTURE OF PENTAERYTHRITOL
Edwin T. Mertz, La Fayette, Ind., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 1, 1949, Serial No. 74,046
7 Claims. (Cl. 260—637)

1. A process for the resolution of waste liquor obtained in the manufacture of pentaerythritol and containing pentaerythritol, organic syrups, metal formate and water which comprises evaporating said waste liquor to substantial dryness, commingling the resulting dried waste liquor with a solvent selected from the group consisting of secondary and tertiary aliphatic monohydric alcohols of from 4 to 6 carbon atoms and secondary and tertiary alicyclic monohydric alcohols of from 4 to 6 carbon atoms, said solvent being employed in an amount not substantially in excess of that required to dissolve all of the pentaerythritol and organic syrups contained in the dried waste liquor at the temperature employed, separating the resulting solution containing dissolved pentaerythritol and organic syrups from the undissolved material comprising metal formate and recovering from the solution the pentaerythritol and organic syrups in a form substantially free of metal formate.

2,533,738
DISPLAY PACKAGE AND TRAY
George Arlington Moore, New York, N. Y., assignor to National Biscuit Company, New York, N. Y., a corporation of New Jersey
Application September 5, 1945, Serial No. 614,479
3 Claims. (Cl. 206—45.33)

1. In a display packet for packaging a plurality of articles of substantially uniform dimensions in side by side relation, wherein the articles are supported on a relatively rigid boat and the loaded boat is seal-wrapped in a transparent wrapper, a boat constructed of sheet material formed to provide a rectangular flat bottom, an upstanding wing at each end of the bottom, the height of the wings being substantially equal to the thickness of the articles supported on the bottom of the boat, means for holding the wings against inward movement, and opposed separators between the individual articles comprising each a pair of triangular upturned sections of the bottom formed by a cut extending inward from the side edge of the bottom and a score line on each side of the cut extending at an angle to the cut from the inner end thereof to the side edge of the bottom.

2,533,739
ELECTRONIC COUNTING RING
Robert E. Mumma, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application December 27, 1943, Serial No. 515,718. Divided and this application July 18, 1947, Serial No. 761,813
25 Claims. (Cl. 235—92)

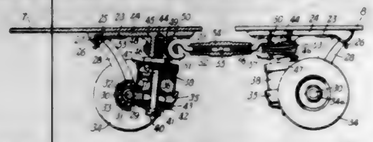


1. A plurality of units each including an electrode pair and an inter-electrode discharge control means; means to establish operative chain connections between the units, by connecting one of the electrodes of each pair to the control means of an adjacent unit of the chain; and switching means operable to disestablish such connections and establish new connections between said one electrode of each unit and the control means of the adjacent unit of the former chain in a reverse direction.

2,533,740
ROLLER SKATE
Alan E. Murray, New York, N. Y.
Application December 11, 1945, Serial No. 634,238
5 Claims. (Cl. 280—11.28)

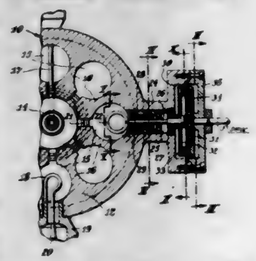
3. A roller skate including a skate chassis, having front and rear rollers, supporting means for

the rollers and a skate plate for attachment of the skate chassis to a shoe, said plate having intervening rubber means connecting it to the supporting means entirely without metal contact



therebetween and resilient means connecting the front and rear rollers together comprising rubber connecting pieces in the form of rubber cords separated by a turnbuckle.

2,533,741
TUNING MEANS FOR MAGNETRONS
Ernest Carl Okress, Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1947, Serial No. 787,058
9 Claims. (Cl. 250—27.5)



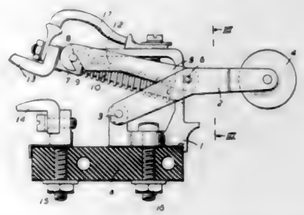
1. A magnetron providing a cavity resonator, said resonator having a sealed passageway leading therefrom, a variable rotatable circuit characteristic adjusting element in said resonator, and means sealed within said passageway for supporting and rotatably operating said variable element.

2,533,742
RING PACKING AND METHOD OF MAKING THE SAME
Emil J. Poltorak, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application March 11, 1947, Serial No. 733,875
6 Claims. (Cl. 288—18)

1. A ring packing including a projecting lip comprising a fabric base and a yieldable compound impregnating the base, said base being built up to a multi-layer thickness by a succession of overlapping pleats with the fold lines thereof extending transversely of the ring and into said lip, the overlapping portions of the pleats being adhered together by the impregnant.

2,533,743
SNAP ACTION ELECTRIC SWITCH
William Sharp, Birmingham, England
Application May 21, 1948, Serial No. 28,397
In Great Britain March 20, 1948
2 Claims. (Cl. 200—67)

1. An electric switch comprising a frame forming an electrical conductor, a butt contact fixed in relation to the frame, a pivot on said frame, a switch arm movable about said pivot on said frame, a pivot on said switch arm, a link pivotally mounted on said pivot of the switch arm, a movable contact member pivotally mounted on and connected to the link, said movable contact member including a slide rod, the outer end of said rod being slidably and pivotally mounted in relation to the frame, an abutment block on said rod, a spring on said rod bearing against said abutment block and said frame to urge the rod away from the frame and to pivot the link away from the switch arm, so that when



the switch arm is moved in either direction past the dead center of the spring, the movable contact will snap into or out of contact with the fixed contact, an insulating base on which said fixed contact is mounted, and terminal means on said base and connected to said fixed contact and said frame, respectively, and a flexible conductor connecting said frame to said movable contact, said pivot on said frame being located in one position of said spring below and in another position of said spring above said pivot on said switch arm from which said link extends to and pivotally engages said movable member.

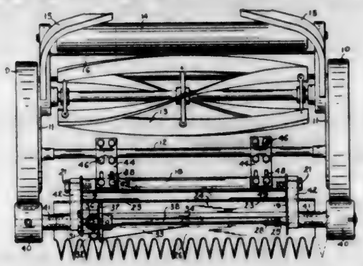
2,533,744
ANTIFOULING PAINTS
Davis A. Skinner, Compton, and Thomas F. Doumani, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application February 7, 1949, Serial No. 75,096
8 Claims. (Cl. 106—15)

1. An anti-fouling paint composition comprising a paint which is normally subject to fouling by marine organisms when applied to surfaces exposed to marine waters and a copper alkyl mercaptide having from 1 to 7 carbon atoms in an amount sufficient to inhibit said fouling.

2,533,745
ATTACHMENT FOR LAWN MOWERS
George H. Spence, New Haven, Conn., assignor to Harman Distributors, Inc., New Haven, Conn., a corporation of Connecticut
Application November 5, 1948, Serial No. 58,523
8 Claims. (Cl. 56—238)

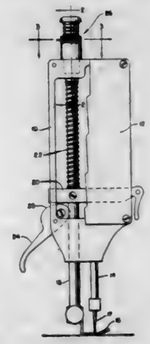
1. An attachment for lawn mowers having spaced wheels, a frame member adapted to extend transversely of the mower, a plate at each end of said member and supported thereby, means connecting each of said plates to the frame member a reciprocable cutter bar supported by said plates, reciprocating means for the cutter bar carried by one of said plates, a drive shaft rotatably mounted in said plates and connected to said reciprocating means, the ends of said shaft projecting through the plates and having rollers

secured thereto, and means secured to said frame member and extending rearwardly therefrom for



securing said attachment to the mower with the rollers frictionally engaged with said wheels.

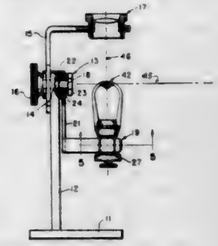
2,533,746
ATTACHMENT FOR SEWING MACHINES
Philip J. Stuster, Huntington Park, Calif.
Application November 1, 1948, Serial No. 57,694
7 Claims. (Cl. 112—236)



6. In means for varying the pressure imposed upon the presser foot of a sewing machine having a head, said foot being carried upon the lower end of a presser bar of which the upper end is longitudinally movable in said head under the pressure of a spring thereon, the combination comprising: a stationary collar adapted to be fixed upon said sewing machine head; an inwardly projecting member carried on the collar; and a sleeve slidably carried on said collar and provided with a plurality of longitudinally spaced shoulder means selectively engageable with said inwardly projecting member to lock the sleeve in any one of a plurality of predetermined positions intermediate the extremes of its slidable movement in opposite directions to place said spring under correspondingly different compressions.

2,533,747
GEM VIEWER
Rolf A. Thienemann, Chicago, Ill.
Application December 20, 1948, Serial No. 66,227
1 Claim. (Cl. 88—39)

As an article of manufacture, a monomanipulable gem viewer to facilitate full examination of all of the facets of a cut stone comprising in a unitary structure a base, a vertical support integral therewith, a dual purpose stud threadedly held in said support, said stud comprising a threaded portion extending beyond said support, a shank portion and a head portion, magnifying means adjustably associated with said threaded portion, said magnifying means having a lens, clamping means mounted on said threaded portion for holding said magnifying means in focal position relative to said cut stone, a tongs for holding said cut stone, supporting means for said tongs swingably mounted on said shank portion, said supporting means having a pair of resilient gripping arms with confronting



hollow portions therein, said arms conformed for removably mounting and pivotally gripping said tongs, and a compression spring means disposed around said shank and positioned between said supporting means and said head, whereby said tongs is retained through the joint action of said compression spring means and said resilient gripping arms in the position to which it has been manipulated with the stone to be examined invariably disposed substantially at the focal point of said lens.

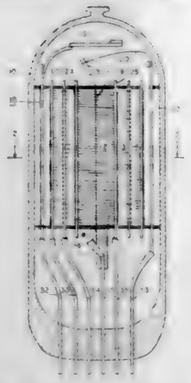
2,533,748
SELF-LOCKING SETSCREW
Elwood W. Weissert, Carnegie, Pa., assignor to Bertrand P. Tracy Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 17, 1948, Serial No. 15,322
4 Claims. (Cl. 151—32)

1. A self-locking set screw comprising a body having a recess in its forward region, slots extended rearwardly from the forward recessed end of the set screw body dividing the structure thereof into a plurality of externally threaded segments, the said segments being interiorly formed cooperatively to provide a conical forwardly flaring surface within the segmented forward region of the set screw body, a bearing tip having a conical rearwardly tapered bearing surface cooperative with the forwardly flaring conical surface of the set screw body to cause radial expansion of the externally threaded body segments as the body of the set screw is moved forwardly over the said bearing tip; the angle at which the conical surface of the body segments flares being greater than the angle on which the diameter of the bearing tip progressively increases in an order to provide clearance around the forward region of the said bearing tip in movement of the said body segments thereover and the difference between said angles being less than the angle of deflection required to flex the segments to their elastic limit.

2,533,749
SPLIT HANDLE FOR SOLDERING IRONS AND THE LIKE
Leonard P. Young, Chester, Conn.
Application October 18, 1946, Serial No. 704,190
4 Claims. (Cl. 174—46)

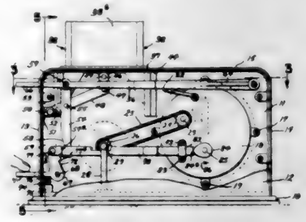
1. A split handle for the reception of electric iron casings and the like, said handle comprising two component parts having interlocking means for facilitating their registry with one another, both parts having a casing-engaging end and cord housing end, said casing-engaging end being provided with spaced casing supporting surfaces and a fixed detent disposed centrally between and projecting above said spaced surfaces and into the casing interior; the cord housing end having oppositely disposed projections adapted to serve as stop means for limiting the outward movement of the cord, terminal support in one of the handle parts and being located between the casing engaging end and the cord housing end of that handle part and having a pair of terminal attaching means for securing thereto the terminals both of a heating element and of a cord, a recess in the other handle part opposite said pair of terminal attaching means, and a partition separating the latter and projecting into said recess.

2,533,750
HIGH-GAIN AMPLIFIER TUBE
Robert Adler, Chicago, and John G. Prentiss, Berwyn, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Original application May 27, 1944, Serial No. 537,704, now Patent No. 2,426,681, dated September 2, 1947. Divided and this application May 3, 1945, Serial No. 591,712
6 Claims. (Cl. 250—27.5)



1. An electron discharge device having a plurality of electrodes including a source of electrons, a first control electrode consisting of a mesh having openings of a first size, a first anode consisting of a mesh having openings of a second size, greater than said first size, a second control electrode consisting of a mesh having openings of a third size less than said second size, and a second anode, said electrodes being mounted serially and consecutively adjacent each other along the electron stream between said source and said second anode, said second control electrode being closer to said first anode than to said second anode whereby said second anode is operative at a low positive potential with respect to said source.

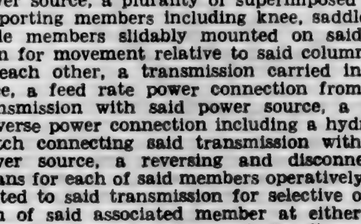
2,533,751
AUTOMATIC SECRETARIAL REMINDER
Joseph A. Albers, Cheviot, Ohio
Application August 5, 1949, Serial No. 108,715
5 Claims. (Cl. 161—6)



3. An improved device of the kind described comprising a clock works having an alarm mechanism, supporting means for the clock works, a memorandum pad holder mounted on said supporting means for movement between a set position and an accessible position, a reset lever movably mounted on said supporting means, an alarm setting lever connected to the alarm mechanism and disposed in the path of downward movement of the reset lever, a link movably mounted on said supporting means and pivotally connected to said holder, a catch bar pivotally connected to said reset lever and to said link, resilient means supported by said supporting means for normally urging the link, the reset lever and the holder to the accessible position of said holder, a release catch movably mounted on said supporting means, said release catch and said catch bar having cooperating portions for releasably locking the holder in its set position, resilient means mounted on said supporting means for normally urging the cooperating portions of said catch bar and release catch into locking position, a release rod movably mounted on said clock works and connected to said release catch, and a cam actuated by the alarm mechanism for moving said release rod, whereby said release catch is moved to its inoperative position.

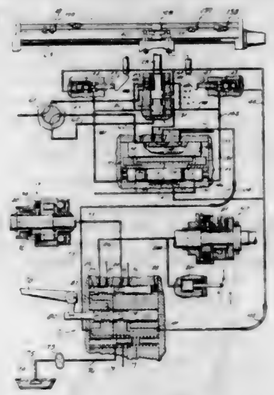
2,533,752
AUTOMOBILE VEHICLE
Marcel Antoine Clement Alamagny, Saint-Cloud, France
Application October 5, 1945, Serial No. 620,569
In France April 9, 1945
2 Claims. (Cl. 180—21)

1. An automotive vehicle including a rigid frame, wheels arranged in diamond-shaped relation and including transversely aligned medial wheels and fore and aft longitudinally aligned wheels carried by the frame, said frame including a rigid inverted transversely disposed housing having spaced side walls and a top, the side walls extending transversely of the vehicle, and floor sections extending forwardly and rearwardly from the lower extremities of the housing, a motor supported and enclosed within said housing, seats arranged back to back on the floor sections with the side walls of the housing supporting the backs of the seats, oppositely facing shell-like body members each having uninterrupted side walls, an outer end wall and a top



wall, and means at the opposite ends of the frame pivotally connecting the body members thereto for vertical swinging movement away from each other toward the opposite ends of the frame.

2,533,753
MACHINE TOOL CONTROL MECHANISM
Joseph B. Armitage, Wauwatosa, and Orrin W. Barker, Milwaukee, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application February 27, 1947, Serial No. 731,308
12 Claims. (Cl. 90—21)

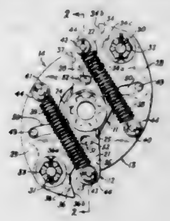


1. In a milling machine, the combination with a column, a power source associated with said column, a tool retaining spindle rotatably mounted in said column and driven from said power source, a plurality of superimposed work supporting members including knee, saddle and table members slidably mounted on said column for movement relative to said column and to each other, a transmission carried in said knee, a feed rate power connection from said transmission with said power source, a rapid traverse power connection including a hydraulic clutch connecting said transmission with said power source, a reversing and disconnecting means for each of said members operatively connected to said transmission for selective operation of said associated member at either feed of rapid traverse rates, a hydraulic control mechanism on said knee manually operable to control the operation of either of said members at rapid traverse rate, a hydraulic control mechanism on said movable saddle member disposed to control the operation of said table member at feed or rapid traverse rates, and a plurality of flexible connectors between said control mechanisms whereby said members may move relative to each other without interfering with the operation of said control mechanisms.

2,533,754
PURIFICATION PROCESS
Seaver A. Ballard, Orinda, and Bradford P. Geyer, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 4, 1947, Serial No. 784,080
4 Claims. (Cl. 202—57)

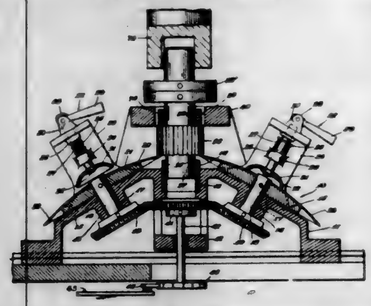
4. In a method of purifying a crude aqueous, aldehyde-containing ethanol solution having a zero permanganate time, the steps consisting of dissolving from 0.1 to 3% by weight alkali metal hydroxide in the solution, refluxing the resulting hydroxide-containing solution for a period of at least one-half hour, and recovering a purified ethanol solution as a distillate from the refluxed solution, said purified alcohol solution being characterized by a permanganate time of at least 15 minutes.

2,533,755
SPEED CONTROLLED COUPLING
George E. Bange, Wichita, Kans., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application April 12, 1945, Serial No. 587,868
6 Claims. (Cl. 64—25)



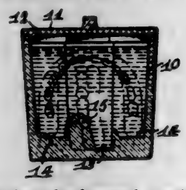
1. Apparatus of the class described comprising a rotatable driving member, a rotatable driven member, and means drivably connecting said members whereby the same may be rotated together and are adapted for limited angular movement relative to each other, said connecting means comprising a weight member mounted on one of said rotatable members for pivotal movement relative thereto in response to centrifugal force, said weight member having a surface with angularly disposed sides selectively engageable by the other of said rotatable members during different ranges of movement of said weight member in response to increasing centrifugal force, one said side being inclined to effect relative angular movement of said driving and driven members and the other said side being inclined to effect opposite relative angular movement thereof as the centrifugal force increases from minimum to maximum, and resilient means connecting said other rotatable member to said weight member at a point on the latter which is eccentric to the pivotal axis thereof for resisting movement of said weight member in response to centrifugal force and for yieldably urging said other rotatable member into engagement with said surface at all speeds of rotation and into engagement with said surface at one end of the latter when the apparatus is at rest.

2,533,756
MACHINE FOR BEVELING NOTCHES IN COULTER DISKS
Fred W. Barbknecht, Palos Heights, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 5, 1948, Serial No. 52,927
3 Claims. (Cl. 76—82)



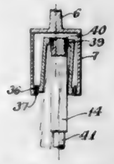
1. In a machine for treating a concavo-convex disc having circumferentially spaced notches, a supporting structure having a centrally disposed vertically extending bore, a bearing member positioned in the bore, a pair of work holding elements disposed at opposite sides of the vertically extending bore, each of said elements including a rotatable shaft, each shaft extending upwardly and outwardly with respect to the bore, a turntable connected to each shaft for rotation therewith, each turntable being positioned in angular relation with respect to the bore and having a convex surface adapted to receive a concavo-convex disc, a pair of clamps for removably securing a disc to each turntable, each clamp including an axially shiftable member having a rotatable cup shaped element arranged to be moved into engagement with a disc, a cutter head positioned between the turntables, said head including a shaft extension journalled within the bearing member of the bore, a shaft extending upwardly from the cutter head and adapted to engage a driving member in reciprocating and driving relation, means for axially moving said cutter head adjacent the notches of a pair of discs and into cutting engagement with edges bordering the notches of the discs for sharpening the edges, and means for rotating said turntables thereby successively moving unsharpened edges of the discs into position for engagement by the cutter head.

2,533,757
SANITARY CONTAINER
Arsene Beauchemin, Montreal, Quebec, Canada
Application May 18, 1946, Serial No. 670,704
2 Claims. (Cl. 206—1)



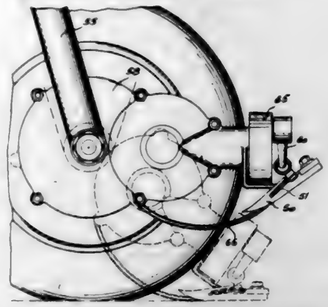
2. A partitionless leakproof container to support a pair of dentures in nested vertical position in an antiseptic solution, having an exterior irregular substantially cruciform configuration, an interior cruciform configuration, walls of a height sufficient to extend above the top portion of said dentures when in vertical position, in which one arm is less shallow than the remaining arm, a raised arcuate portion formed at the center of the bottom of said first arm to support a denture in vertical position, a crenated peripheral lip and a cover for the container.

2,533,758
FLOATING HOLDER
Bernard Better and John W. Lehde, Jr., Chicago, Ill., assignors to Scully-Jones & Company, Chicago, Ill., a corporation of Illinois
Application July 9, 1949, Serial No. 103,928
14 Claims. (Cl. 279—16)



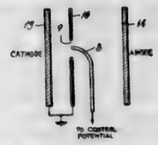
7. In a floating tool holder, the combination of a shank having a cylindrical extension, a collar secured to the extension, a collet mounted in the cylindrical extension said collet having an annular flange within the collar, a ball bearing between said flange and the collar, a ball bearing between the flange and the extension, a cylindrical driver mounted in the extension and fitting over the collet, driving gears between the extension and one end of the driver, and driving gears between the other end of the driver and the collet, the arrangement being such that the collet may be driven with its longitudinal axis out of alignment with the axis of the shank.

2,533,759
WHEELED MOWER AND DRIVE THEREFOR
Emile Bobard, Beaune, France
Application February 28, 1945, Serial No. 580,219
In France June 3, 1942
1 Claim. (Cl. 56—260)



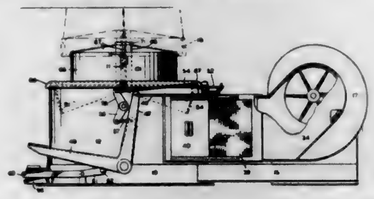
In a wheeled vehicle, the combination of a wheel, a hollow part normally fixed with respect to the vehicle, a rotary axis for the wheel supported by said hollow part, an auxiliary rotating mechanism carried by said hollow part, a gear inside said hollow part transmitting the power from the wheel axis to said auxiliary mechanism, and means permitting rocking said hollow part together with the gear and auxiliary mechanism between two angular positions corresponding respectively to the operative and inoperative positions of said auxiliary mechanism.

2,533,760
ELECTRONIC DISCHARGE TUBE CONTROL
George A. Bonadio, Watertown, N. Y.
Application October 22, 1949, Serial No. 123,074
5 Claims. (Cl. 250—27.5)



1. An electronic valve of the pure electron discharge type and having as functioning elements at least a cathode, an anode and a control electrode, characterized in that said control electrode comprises a metallic shield provided with at least one substantially circular aperture therein, and a relatively small and substantially pointed control member proper located substantially in the center of said aperture, but insulated from said metallic shield, said metallic shield being positioned adjacent the cathode, and being metallically connected thereto, so as to be equipotential therewith.

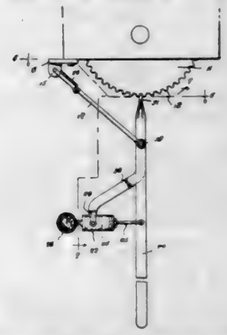
2,533,761
GARMENT FINISHING APPARATUS
Robert W. Brenner, Foster's, and John R. Petre, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application March 20, 1947, Serial No. 735,878
15 Claims. (Cl. 223—70)



11. Garment finishing apparatus of the character described comprising a hollow, chambered base, having a circular top opening, means for causing the flow of air through said opening and chamber, a hollow pervious garment form provided with a wheel-like base having a rim, spokes and a hub, and a shaft depending from said hub, and a form supporting member mounted upon the base and extending across its top opening and having a cylindrical rim, spokes and a hub, said last named hub being provided with a bearing bushing to receive said shaft and upon which the form base hub is supported, said supporting member being pivoted upon the base upon an axis diametrical to and across said opening, and spheroidal sealing shells of generally crescent form, one on each side of the pivotal axis, for sealing the joint between the base and supporting member in various positions of the latter, one of said shells being attached to the base and the other to the supporting member, and a gasket for each shell.

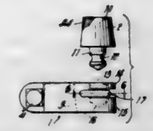
2,533,762
FLYWHEEL ROTATING TOOL
Frank Brugmann, Greeley, Colo., assignor of one-half to Paul Goss, Greeley, Colo.
Application June 7, 1946, Serial No. 675,045
4 Claims. (Cl. 73—133)

1. A flywheel rotating device for motor vehicle engines comprising a bracket element adapted to be secured to an engine adjacent the flywheel thereof, an arm pivotally secured to said bracket element, a lever member pivotally secured intermediate its end to said arm, a tooth element on one end of said lever member adapted to mesh



with the gear teeth on the flywheel of the engine, and a spring member engaging said arm and bearing on said bracket element, said spring member being formed and arranged to urge said arm and said tooth element toward the flywheel of an engine to which said bracket is secured.

2,533,763
QUICK DETACHABLE BATTERY CONNECTOR
Vincent E. Cacciotti, Troy, N. Y.
Application April 6, 1948, Serial No. 19,378
7 Claims. (Cl. 173—259)



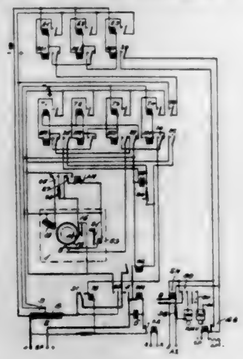
3. A quick detachable connector for a storage battery terminal comprising a first metallic element having a frusto-conical passage therethrough adapted to fit closely over a storage battery terminal, and a clamping bolt for securing said element to said terminal; said element being also provided with a cylindrical recess having its axis disposed substantially parallel to the axis of said passage, and a resilient latch projecting into said recess; and a second, plug-like, metallic element having a portion adapted to be inserted in said recess and to be frictionally engaged by said latch, and having a frusto-conical terminal thereon substantially complementary to the frusto-conical passage through said first element; whereby the terminal of a cable adapted to be connected to said battery terminal may be connected to the terminal on said plug-like element.

2,533,764
HETEROCYCLICTHIOL RESINS
Philip D. Caesar, Wenonah, and Alexander N. Sachanen, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 26, 1947, Serial No. 776,425
10 Claims. (Cl. 260—67)

1. A method of preparing resins which comprises reacting a thiol of a 5-membered ring heterocyclic compound having only one hetero-

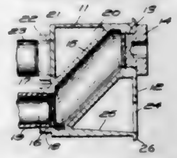
atom in said ring selected from the group consisting of thiols of thiophene, furan and pyrrole and an excess of a mole equivalent of an aldehyde in the presence of an alkaline catalyst at temperatures of about 50° to about 150° C.

2,533,765
SELECTOR APPARATUS FOR ALARM SIGNALS
Louis Chauveau, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application January 13, 1948, Serial No. 1,976
In France December 10, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 10, 1966
3 Claims. (Cl. 177—353)



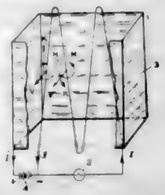
1. In an apparatus for receiving and selecting radiotelegraphic signals composed of a series of dashes which range in duration from a given standard minimum to another standard maximum and are separated from one another by time intervals of a predetermined maximum duration, a receiver, a selector connected with said receiver, a direct-current supply feeding the selector, a dash timer fed from said supply for a part of each dash, a timer of intervals between dashes cooperating with the dash timer, and a recorder of correct dashes cooperating with the two said timers and actuating at least one warning device at the end of the reception of each correct signal; the dash timer comprising a momentum device with electrically sustained oscillations, a chain of interconnected relay devices, means for the energizing of these relay devices, these means being impulsively controlled by the momentum device at its own rhythm of oscillation during the operation of the dash timer and progressively connecting a holding line to the relays of the chain, at the rate of a further relay per oscillation period, a starting relay controlled by the output circuit of the receiver, means associated with said relay and connecting the said holding line and the momentum device to the supply with a delay less than one second after the reception of each dash, the same means being adapted to deenergize the holding line and momentum device at the end of a dash longer than the above-mentioned operation delay and shorter than the standard maximum, a time excess relay normally deenergized cooperating with the interval timer and controlled by the last relay of the dash timer so as to restore the selector to rest condition when a dash is longer than the standard maximum; the timer of intervals between dashes comprising a relay device connected to the supply through the last relay of the dash timer and having a release time delay greater than the maximum standard length of an interval, this relay device cooperating on the one hand with the starting relay so as to restore to rest condition the whole selector when the duration of an interval following a correct dash exceeds the fixed maximum, on the other hand with the time excess relay so as to hold it energized after a too long dash during the above-mentioned release-time delay; the recorder of correct dashes comprising a chain of interconnected relays, whose number equals the number of correct dashes required to form a correct signal, means for the energizing of these relays, controlled by the last relay of the dash timer and enabling a further relay to be connected to the supply at the end of each correct dash separated from the previous one by a correct interval, and means for the actuation of at least one warning device, controlled by the last relay of the recorder.

2,533,766
FUEL OIL TANK INTAKE BOX
Armand G. Caruolo, Providence, R. I.
Application March 13, 1948, Serial No. 14,741
4 Claims. (Cl. 220—86)



1. An intake box for fuel oil installations comprising a casing of hollow formation having a front plate and a back plate, an oil inflow passageway including an opening in the upper portion of the front plate, an opening in the lower portion of the back plate, and a conduit between said openings, and an air vent passageway including the interior of the casing, an opening in the upper portion of the back plate, and an opening in the lower portion of the front plate.

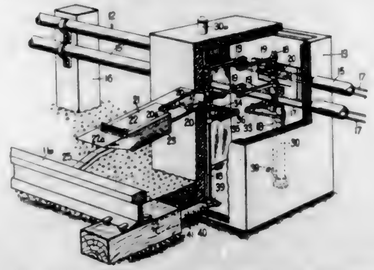
2,533,767
DEVICE COMPRISING A DISCHARGE TUBE SENSITIVE TO SPACE CHARGE VARIATIONS
Frederik Coeterier, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 22, 1946, Serial No. 663,818
In the Netherlands February 5, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 5, 1962
4 Claims. (Cl. 250—27.5)



1. A device comprising an electron discharge tube having a directly heated electron emissive planar cathode portion and an anode portion, means connected to said cathode to apply a heating alternating current to said cathode portion, means connected to said cathode and said anode

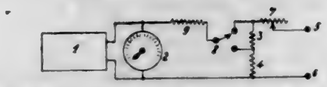
to apply an electron accelerating voltage between said cathode portion and said anode, and means external to said tube to produce a magnetic field of fixed direction relative to the cathode portion and anode and having lines of force substantially perpendicular to said planar cathode portion and enclosing the electron path between said cathode portion and said anode to restrict the electron flow from the cathode portion to said anode to a direction substantially perpendicular to the plane of said cathode portion.

2,533,768
SAFETY SIGNALING DEVICE FOR DOUBLE TRACK RAILWAY SYSTEMS
Samuel Lewis Conrad, Columbus, Ohio
Application December 22, 1944, Serial No. 569,356
5 Claims. (Cl. 246—210)



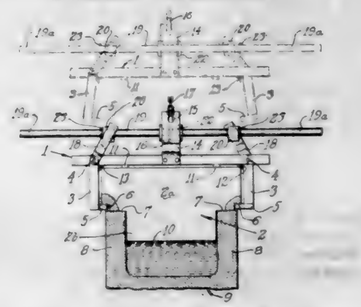
1. In an automatic mechanically operated safety signalling system for a double track railroad line, a plurality of longitudinally spaced signal units located between the spaced pairs of tracks, signal devices forming a part of each unit, one of said signal devices being carried by an arm which is associated with the adjacent track and is movable from an inoperative position where the signal device is spaced from the track to a position where the signal device is on the track, another of said signal devices being carried by a plunger which is movable from an inoperative position to a position where the signal is exposed, a latch for normally holding said arm in inoperative position, a latch for normally holding said plunger in inoperative position, means for releasing said latches, said means including cables connecting all of said units and movable longitudinally to release said latches, said cables being disposed in conduits extending between said units which will be displaced or bent upon being contacted by obstructions on the tracks so as to move said cables longitudinally and release said latches to thereby move the one type of signal onto the track and to expose the other type of signal.

2,533,769
RADIO ALTIMETER
Louis Couillard, Paris, France, assignor to Societe Francaise Radio Electrique, a corporation of France
Application October 9, 1947, Serial No. 778,803
In France October 22, 1946
1 Claim. (Cl. 343—12)



In a radio-altimeter mounted on an aircraft provided with a fixed antenna and with an indicating output ammeter through which flows a unidirectional current whose mean intensity is substantially proportional to the height of the aircraft above the earth surface, means for applying to the terminals of said ammeter an adjustable direct compensating voltage creating a current whose direction is opposite to that of the aforesaid current and whose intensity is equal to that which corresponds to the position of the aircraft when resting on the ground, said ammeter having several scales and being connected to a high resistance in series with a compensating low resistance voltage divider, contacts connected with spaced taps on said voltage divider, a switch selectively movable over said contacts and included in the electrical circuit through said high resistance, each of said contacts being selectively connectible for coaction with the individual scales on said ammeter, a supply circuit and a variable resistor connecting said supply circuit with said voltage divider.

2,533,770
TONGS FOR FOREHEARTH SKIMMER BLOCKS AND THE LIKE
Francis N. Dailey, Rockville, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application September 11, 1947, Serial No. 773,338
2 Claims. (Cl. 294—112)

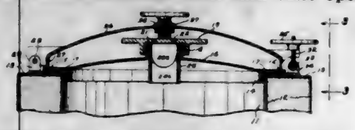


1. A tongs, for a glass forehearth skimmer block or other workpiece, comprising a crossbar, a pair of tong arms pivotally suspended from the crossbar, workpiece engaging elements on the tong arms, a second crossbar, and means operatively connecting said second crossbar with said tong arms to cause the latter to be swung relative to each other in certain directions when the tongs is supported by the second crossbar and in the opposite directions when the tongs is supported by the first crossbar, said means comprising a pair of upturned actuating arms integral with said tong arms and extending above said first crossbar in planes inclined toward each other, and blocks carried by said actuating arms, said blocks having horizontally aligned bores loosely receiving said second crossbar, said bores being oversize in relation to the size of the second crossbar to permit limited sliding movements of the blocks on the second crossbar without binding of these parts.

2,533,771
VENTED CLOSURE FOR MILK TANK MANHOLES
Joseph H. De Frees, Warren, Pa., assignor to Pennsylvania Furnace and Iron Company, Warren, Pa., a corporation of Pennsylvania
Application July 9, 1948, Serial No. 37,784
2 Claims. (Cl. 220—44)

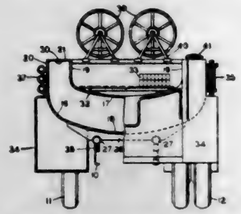
1. Closure means for a liquid-containing tank having in its upper portion a manhole aperture

defined by an upwardly projecting peripheral wall, said closure means comprising an annular gasket carried on top of said wall, said gasket being provided with spaced, upwardly opening vent slots, an inner dished cover having its peripheral edge resting on said gasket, but otherwise freely removable from said gasket and said peripheral wall, said inner cover having in its central portion an aperture, a screw cap removably seated over said aperture, and having a vent opening therein, normally closed flutter valve means retained in said aperture by said screw cap, and opening inwardly, and being in inward air flow communication with said vent opening



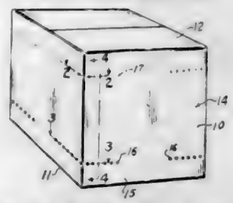
and with said vent slots whereby said flutter valve opens only when the pressure within the tank drops below atmospheric pressure, an outer cover hingedly connected to said wall and spaced outwardly from said inner cover and having its peripheral edge resting on said gasket outwardly beyond the peripheral edge of the inner cover and bridging said upwardly opening vent slots, said outer cover being provided with downwardly movable means adjustably abuttable against the screw cap on said inner cover, said outer cover and said wall being further provided with complementary clamping elements readily engageable and disengageable to respectively close and open said closure means.

2,533,772
FIRE TRUCK
Joseph H. De Frees, Warren, Pa., assignor to Pennsylvania Furnace and Iron Company, Warren, Pa., a corporation of Pennsylvania
Application October 21, 1948, Serial No. 55,693
2 Claims. (Cl. 280—4)



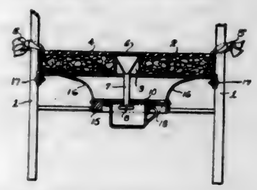
1. A fire truck comprising a wheeled frame, and a combined water-carrying and article-storing body structure mounted thereon, said structure including spaced, transversely continuous, upper and lower main wall portions having respective upper and lower right and left projecting portions extending rearwardly from their main wall portions, said upper and lower main wall portions being curved transversely to shallow U-form to provide between them, and between their rearwardly projecting right and left portions, a water carrying chamber, and continuous top and end walls connecting the upper and lower main wall portions and the upper and lower rearwardly projecting portions and closing the chamber between them, the said projecting portions and connecting walls defining right and left chambered bays in liquid holding communication with the main chamber defined between the said transversely continuous wall portions, the rear portion of the end wall having a re-entrant U-shaped recess whereby to follow the rear contour of the said upper and lower right and left projecting portions and the upper and lower main wall portions therebetween, said re-entrant recess providing passenger receiving space including a platform mounted on said frame below said lower wall and having a portion forming a floor for said recess.

2,533,773
VENTILATED CORRUGATED BOARD CONTAINER
Norman F. De La Foret, Toledo, Ohio, assignor to The Ottawa River Paper Company, Toledo, Ohio, a corporation of Ohio
Application July 16, 1949, Serial No. 105,121
3 Claims. (Cl. 229—6)



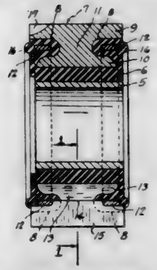
1. A container comprising a body of corrugated sheet material having an intermediate ply provided with a series of elongate corrugations interposed between and connected respectively to relatively flat inner and outer liner plies, a perforation penetrating only the inner liner ply and the corrugated ply, and another perforation penetrating only the outer liner ply and the corrugated ply, said perforations penetrating the same corrugation by spaced points thereby to enable an exchange of air between the inside and outside of the container through said perforations and the channel formed by the respective corrugation.

2,533,774
BEDPAN ATTACHMENT
Violet J. Delisi and Philip Delisi, Lemont, Ill.
Application November 16, 1945, Serial No. 629,064
2 Claims. (Cl. 5—90)



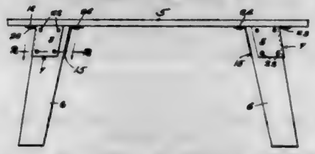
1. The combination with a bedstead having a mattress provided with a drain opening and having a urine receptacle supporting rack beneath said drain opening with a urine receptacle on said rack having a laterally projecting rim, a drain tube depending from said opening into said receptacle having an external enlargement on its lower end, and means acting to center said tube with respect to said receptacle and hold said tube down in position within said receptacle, said means comprising an open spring ring arranged to encircle said receptacle beneath and engage the underside of said rim, said ring terminating at its ends in chordal arms extending thereacross and normally sprung apart to receive said drain tube therebetween above said external enlargement, and clamping means encircling said arms for contracting said ring upon said receptacle and said arms against opposite sides of said drain tube.

2,533,775
COMMUTATOR
Frederick J. Durrschmidt, Shelton, Conn.
Application September 11, 1948, Serial No. 48,870
1 Claim. (Cl. 171—321)



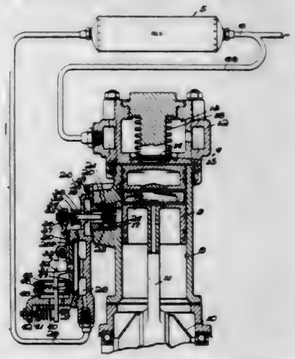
A commutator comprising a body of molded insulating material, a plurality of spaced conductor segments about its periphery each provided with a notch in its opposite ends dividing the segment into an outer portion and an inner portion connected by a narrower intermediate portion, the inner portion being of less length than the outer portion and forming an anchoring base, the inner edges of the notches being concave and the outer end edges of the inner portion of the conductor segments at the entrance to these notches being convex, the segments being arranged with the notches in peripheral alignment, a reinforcing metal ring in each set of aligned notches and spaced from the segments, the material of the body extending into the notches and the rings being otherwise uncovered so that this material entirely surrounds the rings in direct contact therewith, said material also entirely surrounding the anchoring bases including the opposite ends thereof to anchor the segments in the body and insulate the rings from the segments, the material of the body also extending between the inner portions of adjacent segments outwardly to substanitally the inner surfaces of the rings to separate and insulate them from each other, and separate strips of insulation between the outer portions of adjacent segments and located between the outer edges of the extensions of said first insulating means between the segments and the outer surfaces of the rings and the outer edges of the segments.

2,533,776
METAL BRACE FOR SAWHORSES
Otto L. Dustman, Tucson, Ariz.
Application June 16, 1947, Serial No. 754,925
1 Claim. (Cl. 304—5)



Braces for assembling a saw horse of the type including a top member and spaced pairs of legs, comprising an outside and an inside brace for each pair of legs, the braces being co-extensive in length from top to bottom thereof and formed of sheet material to a channeled cross sectional shape open at top and bottom and along one side, each brace including a body portion disposed transversely of said pair of legs and wings integral with and extending from opposite side edges of the body portion to overlie side surfaces of the legs, the body portion of the outside brace being substantially wider than the body portion of the inside brace and the wings of the outside brace being spaced apart a substantially greater distance than the wings of the inside brace, said braces being oppositely disposed and the inside brace being nested within the outside brace, the wings of the inside brace overlying the inner surfaces of the legs and the wings of the outside brace overlying the outer surfaces of the legs, means passing through a leg and through the wings overlying the surfaces thereof for connecting said leg to said wings, and flanges extending from the top edge of each body portion for connection of said body portion to the top member.

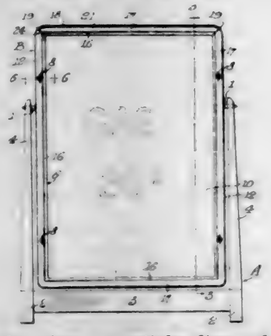
2,533,777
COMPRESSOR VALVE CONTROL MECHANISM
Wilfred A. Eaton, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application September 6, 1944, Serial No. 552,924
5 Claims. (Cl. 230—24)



1. In combination, a compressor having a cylinder, a discharge chamber connected to said cylinder for receiving fluid pressure from the cylinder, an inlet port in the cylinder wall of the compressor, and a valve for normally closing said port, unloader mechanism for said compressor including a plunger operable to move said valve to open position, means for normally maintaining said plunger out of engagement with said valve, a lever for operating said plunger, means subjected at all times to the pressure in said discharge chamber for moving the lever and plunger in valve opening direction, a spring for moving the lever in the opposite direction, means for adjusting the tension of said spring, and means for preventing movement of said lever in said valve opening direction or in said opposite direction except in response to predetermined variations in pressure in said discharge chamber including a permanent magnet normally in engagement with the lever for opposing movement of the latter in said valve opening direction with a predetermined force and a permanent magnet engageable by the lever on a predetermined degree of movement thereof in said valve opening

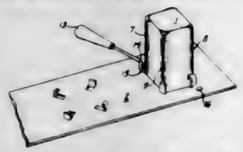
direction for opposing movement of the lever in said opposite direction with a predetermined force.

2,533,778
SIGN DISPLAY FRAME
William A. Eckhardt, Baltimore, Md., assignor to The Clogg Company, Baltimore, Md.
Application June 17, 1946, Serial No. 677,180
2 Claims. (Cl. 40—155)



2. In a sign, two oppositely disposed rectangular frame members having registering windows, bounded on four sides by complementary opposed clamping flanges, the outer portion of each of said clamping flanges being bent transversely, to form with its opposite flange, a continuous, substantially tubular marginal frame, the outer edges of the opposed flanges forming the bottom and vertical sides of the frame, terminating in telescopically engaging guide walls extending perpendicularly to the general plane of the sign, the outer edges of the opposed flanges forming the top side of said frame, being spaced apart to provide an open, poster sheet receiving mouth, a cover plate connected to one of said frame members and extending across and spaced above said mouth, a relatively stiff backing sheet positioned between said clamping flanges and extending into said tubular frame, and means for drawing said frame members together to clamp poster sheets against opposite faces of said backing sheet.

2,533,779
LUG FASTENING MEANS FOR ELECTRICAL SHIELDS
Kurt Emde, Itasca, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 4, 1945, Serial No. 620,298
3 Claims. (Cl. 174—35)

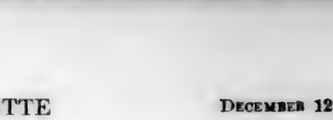


1. In combination: a metallic radio chassis; a metallic shield-can having at least a first longitudinal edge, and a second longitudinal edge with an aperture formed therein; an integral, upstanding, guide-lug formed in said chassis adjacent said first edge in positive electrical and mechanical contact therewith; and an integral, upstanding, S-shaped, fastening-lug formed in said chassis having a lower portion adjacent said second edge in positive electrical and mechanical contact therewith, and having an upper portion extending into said aperture and de-formed to engage a portion of said can defining said aperture in positive electrical and mechanical con-

2,533,780
DRAPERY RING
Enos Eutzler, Mishawaka, Ind.
Application May 24, 1946, Serial No. 672,063
1 Claim. (Cl. 16—87.2)

A drapery fixture comprising a closed substantially elliptical ring which is laterally flat in the direction of its major axis and adapted for slidable mounting on a curtain rod, a U-shaped pin including an upwardly projecting pointed prong and a parallel shank spaced therefrom, a downwardly projecting shank offset from said first mentioned shank and in spaced parallel relation therewith a vertical tube carried by the ring having said second mentioned shank seated therein to support the pin in an upstanding position on the ring, and the lower end of said downwardly projecting shank being spaced from said parallel shank so that said downwardly extending shank may be inserted downwardly in said vertical tube.

2,533,781
SELF-CLEANING DOOR MAT
Thomas Fallowfield, Jr., Vancouver, British Columbia, Canada
Application November 9, 1945, Serial No. 627,551
1 Claim. (Cl. 15—36)

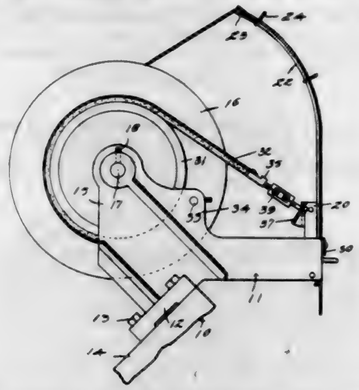


A shoe cleaner comprising a housing forming an open top chamber and a closed chamber adjoining the open top compartment, an endless mat in the top of the open top compartment, rollers supporting said mat, a drive for one of the rollers including a motor in the closed chamber, a suction pipe extending out of the closed chamber into the open top compartment with one end beneath said mat for drawing dirt from said mat into the closed chamber, a suction fan in said closed chamber and to which said pipe is connected, said fan being driven by said motor, and a rotary brush in said end of the suction pipe engaging said mat and driven by said motor.

2,533,782
TENSION MEANS FOR WIRE STITCHING MACHINES
Arnold F. Fischer, New York, N. Y.
Application February 4, 1949, Serial No. 74,658
3 Claims. (Cl. 242—156)

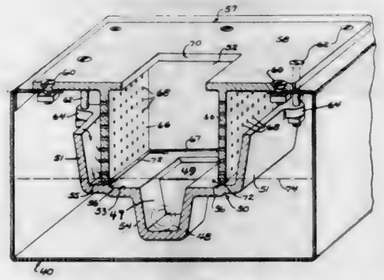
1. For a wire stitching machine having intermittent action, a rotatable wire supply reel, a

brake drum on said reel for controlling the rotary motion of the reel, a mounting bracket for said reel, a pivoted resilient partially arcuate wire guide and tension means, for guiding wire thereover and over above said reel mounting on said bracket to one side of said reel, a brake band extending around said brake drum for the greater portion of the periphery of the drum, one end of said band fastened to said bracket, means fastening the other end to an intermediate non-bending portion of said guide, said



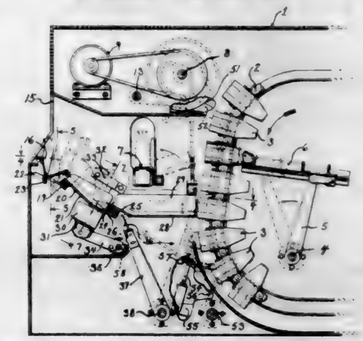
guide having a flexible arcuate resilient portion, and relatively to the latter, a non-resilient portion, said resilient arcuate portion flexing by pull of the wire thereon, sufficient to release a predetermined stitch length of wire without releasing said brake and said entire guide adapted to pivot to release said brake band on a further predetermined pulling action of said wire in the feeding thereof for free rotation of said drum, and spring means acting on said non-resilient portion for instantly setting said brake during each action of release of tension on said wire.

2,533,783
VAPORIZING-TYPE LIQUID FUEL BURNER
Peter Fournier, Trenton, Mich.
Application June 25, 1947, Serial No. 756,878
8 Claims. (Cl. 158—91)



1. Heating apparatus comprising a burner including a receptacle for liquid fuel, means for maintaining the fuel in said receptacle at a predetermined static level, said burner also comprising perforate plates extending downwardly into said receptacle to a point below said fuel level and terminating in spaced relation to the bottom wall of said receptacle to provide horizontal slots between the plates and the bottom wall of the receptacle, and means for supplying air under pressure to the perforations of said plates and to said slots.

2,533,784
DELIVERY MECHANISM FOR BOTTLE-WASHING MACHINES
Frederick H. Fruhling, Milwaukee, Wis., assignor to Continental Equipment Corporation, Milwaukee, Wis.
Application December 6, 1946, Serial No. 714,513
2 Claims. (Cl. 198—27)

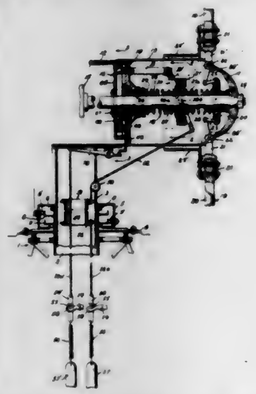


1. In a bottle washing machine, a bottle delivery mechanism including a horizontally disposed discharge trough, a bottle turning slotted trough pivoted above the discharge trough, a bottle supporting oscillatory plate in pivotal crank connection with the axis of the bottle turning trough, a fixed guide rod for supporting the free end of the oscillatory plate, whereby a bottle may be seated on the plate, cam controlled lever actuating means for rocking the bottle turning trough upward upon its axis, whereby the free end of the oscillatory plate is lifted upwardly upon its guide rod to cause the bottle to be tilted backwardly into the bottle turning trough, the said bottle turning trough being thereafter rocked downwardly to a bottle discharging position relative to the discharge trough, and cam controlled lever actuated fingers movable in the slots of the bottle turning trough to deliver a bottle into the discharge trough.

2,533,785
VARIABLE PROPELLER
Charles Fumagalli, Guatemala, Guatemala
Application November 15, 1946, Serial No. 710,026
13 Claims. (Cl. 170—74)

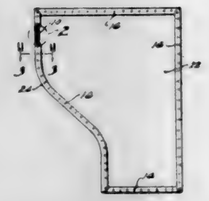
1. A winddriven propeller including in combination a casing, a shaft journaled therein, a hub fixed to the shaft, a plurality of propeller blades pivotally mounted on the hub for folding movements conoidally from a radial position toward and to different angular degrees with relation to the shaft under progressively increasing wind forces, an outer sleeve slidably mounted on the shaft, pivotal motion transmitting connections between the outer sleeve and the inner ends of the blades adapting said sleeve to be moved in one direction from a normal position under thrust of the blades when folding under increasing wind forces and adapting said sleeve to be moved back to normal position to transmit unfolding movements to the blades as the wind forces are relatively reduced, an inner sleeve fixed to the shaft, an intermediate sleeve slidably mounted on the shaft, springs mounted respectively between the

outer sleeve and the intermediate sleeve and between the intermediate sleeve and the inner sleeve and acting on the two first-named sleeves to pro-



vide a yielding resistance to the folding movements of the blades, and means for adjusting the intermediate sleeve to vary the resistance of one of the springs relative to the other spring.

2,533,786
FASTENING STRIP
George E. Gagnier, Detroit, Mich.
Application April 8, 1946, Serial No. 660,452
3 Claims. (Cl. 45—138)



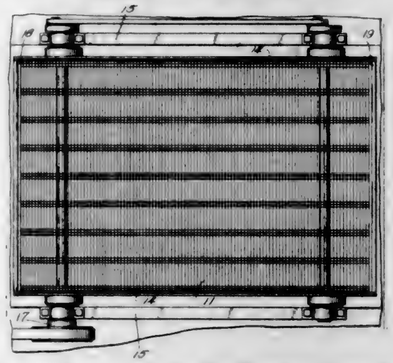
1. In an automotive upholstery panel construction comprising a relatively stiff fibrous backing member and a fabric covering member stretched over one surface thereof and anchored adjacent its edges to the opposite side thereof, anchoring means for securing said fabric to said panel comprising a relatively flexible elongated metallic strip having perforations therein, the metal from said perforations being struck outwardly to provide relatively sharp prongs extending generally perpendicularly to the body of said strip, some of said prongs projecting from one side of said strip, and other of said prongs projecting from the opposite side of said strip, said first mentioned prongs entering into and anchored to said fibrous panel and last mentioned prongs adapted to pass through and clinch over said fabric material to anchor the same in position.

2,533,787
CHIROPRACTIC PORTABLE TABLE
Morrill E. Gebhart, Wichita, Kans.
Application February 15, 1949, Serial No. 76,524
5 Claims. (Cl. 128—70)

1. In an apparatus of the class described, the combination of a primary and an auxiliary section, each of said sections provided with legs, springs connecting said legs of each section, a supporting section between said primary and

auxiliary sections, said supporting section comprising sections, and each of said last mentioned sections provided with a brace engaging one of said springs.

2,533,788
SCREEN WITH BAKED ENAMEL COATING
Fred J. Geyer, East Chicago, Ind.
Application October 26, 1948, Serial No. 56,614
6 Claims. (Cl. 209—401)

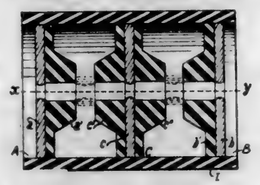


1. A vibratory screen for screening moisture-containing material comprising a screen woven of high carbon steel wires having a diameter of at least ⅛ inch, said screen having a mesh whose shortest opening is not substantially less than ⅞ inch and not substantially greater than ⅝ inch, and a coating on at least the underneath side of each of the wires, said coating being a hard, baked, substantially non-porous enamel coating having no residual elasticity.

2,533,789
CUSHION FOR CLUTCH PLATES
Henry C. Goodchild, Los Angeles, Calif.
Application August 19, 1948, Serial No. 45,193
4 Claims. (Cl. 64—27)

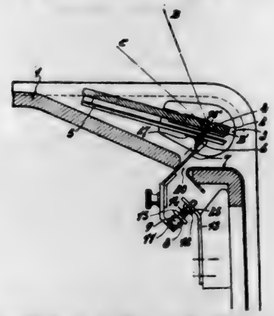
1. A clutch cushion engageable between relatively movable clutch parts to operate under compression including, a solid elongate body of rubber-like cushioning material having a plurality of retaining projections extending continuously the length of the body and engageable between the clutch parts, and metal pressure plates engaging the ends of the body and engageable with the clutch parts.

2,533,790
HIGH-TENSION ELECTROSTATIC ELECTRON LENS
Pierre Grivet, Paris, France, assignor to Compagnie Generale de Telegraphie sans Fil, a corporation of France
Application October 25, 1947, Serial No. 782,183
In France October 18, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 18, 1966
7 Claims. (Cl. 250—49.5)



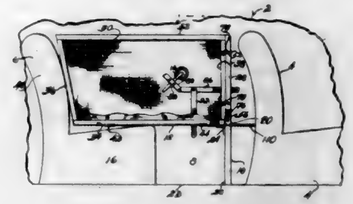
1. In an electrostatic aperture lens, such as used in the electronic microscope, at least two electrodes of a good conducting material maintained at a high potential difference and spaced apart in the line of the lens axis and a piece of an insulating substance of a relatively high dielectric constant introduced between these electrodes, one of the faces of this piece being in a tight contact with the surface of one of the said electrodes, and its other opposite face being located at a substantial distance from the face of the other electrode, a hollow channel being provided in all these elements in the line of the lens axis for the passage of an electronic ray.

2,533,791
INDICATING DEVICE
Maarten Jan Groenenberg, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 9, 1946, Serial No. 682,215
In the Netherlands December 2, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 2, 1962
6 Claims. (Cl. 116—124.1)



1. An indicating device for radio apparatus, comprising a substantially transparent scale plate member, an index member, a guide support means for the said index member and adjusting means for the said support, said plate member being adapted to rotate through an intermediate position about a horizontal axis parallel to the plane of the said scale plate, said index member being positioned behind the said plate member and consisting of a first portion mounted for movement on the said guide portion and a second portion being connected to the said first portion by a hinge portion and being supported by the said first portion, said adjusting means being rigidly connected to the said apparatus, said first portion bearing on a portion of the said apparatus, said hinge portion being adjustable to the said scale plate member in one direction only by means of the said adjusting means in a direction approximately perpendicular to the plane of said scale plate in its intermediate position.

2,533,792
BABY'S AUTOMOBILE TRAVELING PEN-BED
Robert G. Hall, Mancelona, Mich.
Application September 27, 1946, Serial No. 699,747
4 Claims. (Cl. 5—94)



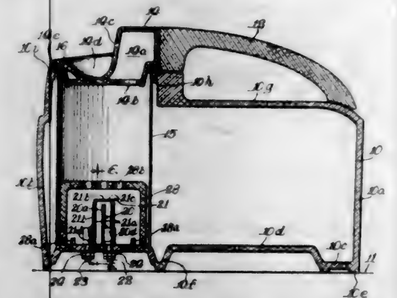
1. A combined crib and play pen device adapted for removable installation in an automobile having front and rear seats and a side door between said seats having a door opening handle, said device comprising a horizontal panel arranged to rest upon the seat cushion of said rear seat and having depending leg means to supportably rest upon the automobile floor between said front and rear seats, and retaining means comprising means operatively connected to a forward part of said panel and connectible to said door opening handle in a manner to preclude forward shifting of said device while precluding opening movement of said handle.

2,533,793
ROTARY PLOW AND SCREEN
Harry Williams Hamlett, London, England
Application July 10, 1947, Serial No. 760,179
In Great Britain July 10, 1946
2 Claims. (Cl. 55—57)

1. An excavating machine comprising a motor propelled vehicle, a frame pivotally mounted on the front of said vehicle, an excavating tool carried by said frame, said tool comprising a cylindrical screen having cutting elements on its lower forward end and a worm conveyor within the screen, a driving shaft on the vehicle, gearing carried by the frame for rotating said screen and worm and a driving connection between said driving shaft and said gearing, said

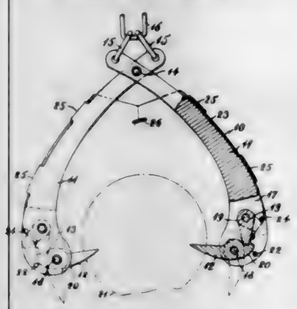
driving connection including pivotal joints and a telescopic coupling for completing a drive when the frame is moved about its pivotal mounting into various positions, and means operatively connected with the frame for moving said frame about its pivotal mounting for varying the angle of attack of the tool, comprising a shaft, a lever operatively connected with the frame, a nut carried by said lever and an operating screw threaded shaft engaging with said nut, said operative connection between the lever and the frame including a hydraulic cylinder for keeping the tool to its working and for raising and lowering the tool independently of said screw threaded shaft.

2,533,794
VAPORIZER
Marshall W. Hanks and Arne B. Johnson, Madison, Wis., assignors to Hankscraft Company, Madison, Wis., a corporation of Wisconsin
Application October 18, 1947, Serial No. 780,720
9 Claims. (Cl. 219—40)



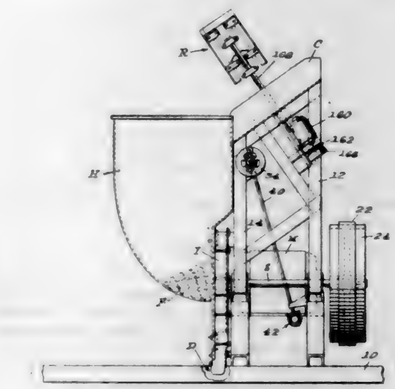
1. A vaporizer comprising a vessel adapted to contain a quantity of liquid, said vessel having an opening, a tube extending downwardly from said opening and having an open end located adjacent the bottom of said vessel, spaced electrodes mounted on the bottom wall of said vessel and extending upwardly into said tube, and an insulating cup-shaped cap mounted in inverted position over said electrodes within said tube.

2,533,795
TONGS
Harvey R. Hansen, Jr., Detroit, Mich.
Application July 28, 1947, Serial No. 764,178
4 Claims. (Cl. 294—118)



1. A device for gripping objects, comprising tongs having a pair of arms pivotally connected together adjacent the upper ends thereof for swinging movement toward and away from each other, a pair of dogs respectively pivotally connected intermediate the ends thereof on the lower end portions of the arms, a gripping portion on each dog at one side of the pivot axis thereof and a latch engaging part on each dog at the opposite side of said pivot axis, a pair of latch elements having the upper ends respectively pivotally supported on the arms at points spaced above the dogs and having the lower end portions engageable with the latch engaging surfaces on the dogs to locate the gripping portions of the dogs in positions to grip an object located between the arms, and selectively operable means connected to the swinging ends of the latch elements for simultaneously swinging the latch elements outwardly to release the dogs.

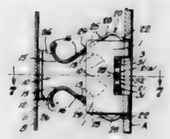
2,533,796
APPARATUS FOR PROCESSING PLASTIC MATERIAL
Hubert Harris and Lamar Mims Ware, Auburn, Ala., assignors to Auburn Research Foundation, Auburn, Ala., a corporation of Alabama
Application June 11, 1946, Serial No. 676,040
11 Claims. (Cl. 107—14)



1. Apparatus for processing plastic materials comprising an impeller chamber, a feed hopper for the material adjacent one end of said chamber, a drive shaft extending centrally into said chamber, impeller blades on said shaft, means for rotating said shaft and said blades at high speed in said chamber, said chamber having an inlet leading from said hopper into the center of said chamber, and means in said inlet synchronously driven with said impeller blades for continuously feeding the material into said chamber and between said blades adjacent their center of rotation, said chamber being enclosed by a side wall except for a discharge passage leading from its periphery at one side thereof.

2,533,797
FASTENING DEVICE
Richard A. Hartman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 20, 1947, Serial No. 780,871
4 Claims. (Cl. 24—201)

4. A fastening construction comprising a part provided with a flat connecting stud having a transverse aperture, a spring catch attached to said flat connecting stud comprising a sheet metal body bent to define a base and spring arms adapted for snap fastening engagement with a cooperating part, said base and spring arms having a slot receiving said flat connecting stud, and cooperating tongues at opposite sides of the slot in said base extending into the transverse aperture in the connecting stud to secure the spring catch in attached position thereon.

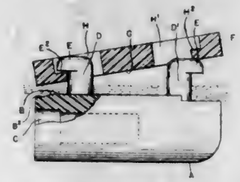


2,533,798
2-THENYLAMINES
Howard D. Hartough, Pitman, and Seymour L. Meisel, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application July 1, 1948, Serial No. 36,448
14 Claims. (Cl. 260—329)

14. As a new composition of matter, a thenylamine having a composition corresponding to the formula

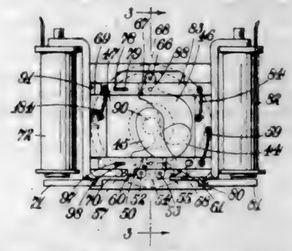
wherein R is selected from the group consisting of 2-thenyl, 5-hydroxymethyl-2-thenyl, 5-methyl-2-thenyl, 5-chloro-2-thenyl and 3-methyl-2-thenyl, R′ is selected from the group consisting of hydrogen, methyl, 2-thenyl and when one of R and R′ is 2-thenyl the other is 2-thenyl.

2,533,799
UMBRELLA COVER MOUNTING
Bartley A. Haydu, Detroit, Mich.
Application June 20, 1949, Serial No. 100,229
3 Claims. (Cl. 135—36)



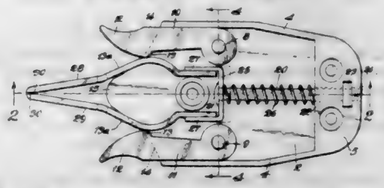
1. A cover mounting means for umbrella frames comprising a tip member engageable with the end of a rib of the frame and having an upturned clamping face for bearing against the underside of the cover fabric, a member having a downturned clamping face for bearing against the upper side of the cover, at least one of said members being formed of resiliently yieldable material, and a pair of spaced headed projections each integral with and extending from the clamping face of an aforesaid resiliently yieldable member to pass through the cover fabric and a locking shoulder on the member which is on the opposite side of the cover into engagement with which each of said projections is adapted to be sprung.

2,533,800
CAMERA SHUTTER
James William Edward Hearn and Frank Button Meech, Slough, England, assignors to Optical Measuring Tools Limited, Slough, England, a British company
Application July 8, 1947, Serial No. 759,552
In Great Britain May 15, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 15, 1966
6 Claims. (Cl. 95—60)



1. A camera shutter and means for operating the same comprising in combination a clock, an electrical circuit comprising a signal line and contacts in the signal line operated by the clock to establish successive electrical impulses in the signal line at predetermined intervals of time, a frame plate comprising a shutter-opening, two movable shutter plates each capable of movement between obturating position and open position relative to said shutter-opening, two electrically responsive means under the control of said impulses each for operating one of said shutter plates, one said shutter plate being spring-urged to open and being held closed, when the shutter is set, by a detent, the detent being controlled by the first of said electrically responsive means, the other said shutter plate being spring-urged to close and being held open by a detent controlled by the other said electrically responsive means, both said electrically responsive means, when operated, acting in a direction to release said detents, switch means automatically operable upon receipt of a first impulse in the signal line and serving to dispatch said first impulse to one of the said two electrically-responsive means to open the shutter plate controlled thereby and simultaneously to change the circuit to despatch the next impulse to the other of said electrically responsive means to close the shutter-plate controlled thereby, and manually-operated resetting means for the shutter plates.

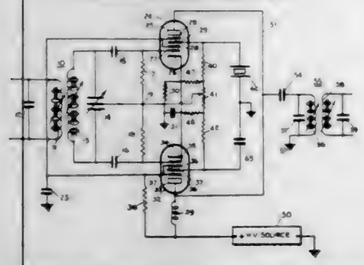
2,533,801
TWEEZERS
William R. Heilig, Chicago, Ill.
Application May 5, 1947, Serial No. 745,925
4 Claims. (Cl. 128—354)



1. In a tweezers device, a housing formed and adapted to serve as a handle, a gripping assembly slidably mounted within said handle, for movement along a generally rectilinear path, said gripping assembly including opposed gripping

members which are movable in unison, yielding means adapted normally to hold said gripping assembly in extended position, an actuating assembly for initially moving the gripping members together into gripping contact and for thereafter sharply retracting the gripping assembly after the gripping members have reached gripping position, said actuating assembly including a pair of actuating members pivoted to and within the housing and extending outwardly of the housing, and having exterior finger-receiving portions, each said actuating member being opposed to and being formed and adapted to contact one of the gripping members in camming relationship, said yielding means being adapted to permit such sharp retraction in response to the movement toward each other of the actuating members about and against the gripping members.

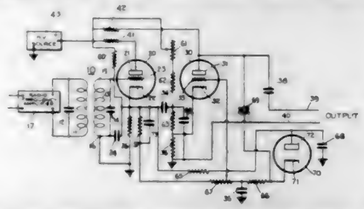
2,533,802
SELECTIVE AMPLIFIER
Donald L. Hings, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application August 6, 1945, Serial No. 609,267
In Canada July 20, 1945
7 Claims. (Cl. 179—171)



7. A selective amplifier circuit, including, an electromagnetic wave source having a given frequency range, first and second amplifier means each having an anode, and first, second and third control elements, input means for exciting said first and second control elements of said amplifier means in push-pull from said electromagnetic wave source, an output circuit having one end connected to said electromagnetic wave source, connection means for interconnecting said anodes and for connecting said interconnected anodes to the other end of said output circuit, and a localized resonant circuit connected to one of said third control elements and tuned to a particular frequency within said given frequency range to absorb energy of said particular frequency.

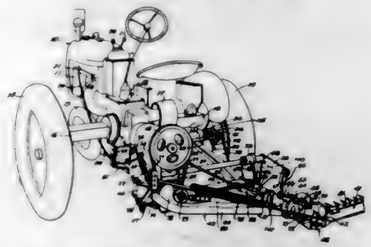
2,533,803
AUDIO CONTROLLED LIMITER
Donald L. Hings, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware
Application August 27, 1945, Serial No. 612,923
In Canada August 13, 1945
7 Claims. (Cl. 250—20)

1. An audio controlled limiter comprising, in combination, a detector circuit having at least a cathode, an inverter amplifier tube having at least a plate, a cathode and a grid, means for coupling the cathode of the amplifier to the cathode of the detector for low frequency, said cathode of the detector having a cathode load resistor for connecting the cathode to ground, resistor means for connecting the grid of the amplifier tube to the cathode of the detector,



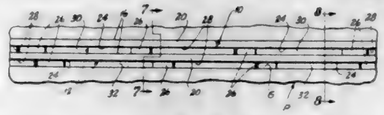
means for rectifying a portion of the output energy of the amplifier tube, and means for conducting the rectified energy through said resistor means and thereby varying the bias of the grid of the amplifier tube.

2,533,804
TRACTOR MOWER HITCH
Rex B. Hitchcock, Evanston, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 11, 1944, Serial No. 553,582
11 Claims. (Cl. 56—25)

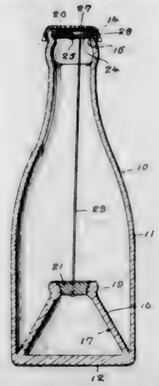


1. In an implement and carrying frame unit of the type in which the implement is separably associated with the carrying frame for attachment thereto and detachment therefrom and in which the implement has an attachment part positionable to receive a complementary attachment part on the carrying frame and wherein the attachment parts are movable relative to each other to effect attachment and detachment of the implement and carrying frame: means for effecting attachment and detachment of said parts, comprising a hook rockable on an axis on the implement part independently of said implement part and a hook-receiving member on the carrying frame, the hook having a cam surface engageable with the member and so related to the hook axis as to move the parts relatively when rocked to attach the implement part to the carrying frame.

2,533,805
COMPOSITE PISTON RING
Majure Carl Holley, St. Louis County, Mo.
Application February 13, 1950, Serial No. 143,940
5 Claims. (Cl. 309—45)

5. A composite piston ring of the character described, comprising a pair of identical split cast iron ring members, each said ring member being provided with finished parallel top and bottom faces, finished parallel outer and inner faces, an annular series of evenly spaced radial recesses formed in the lower face and extending upwardly from the plane of said face to a plane approximately coincident with the horizontal centerline of said ring member, a series of evenly spaced solid segments obtaining between each pair of said recesses, and an arcuate groove formed in

said outer face coextensive with each of said segments, said ring members being adapted for mounting in the oil groove of a standard piston in superimposed relation, with said recesses of each member opening downwardly.

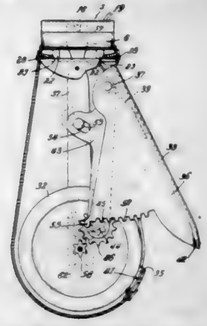
2,533,806
BOTTLE
Harry R. Holzapfel, Richmond, Ind.
Application July 6, 1949, Serial No. 103,261
1 Claim. (Cl. 215—6)



A bottle having a body and neck, said neck having an inner annular shoulder located below its upper edge and having an outer bead for the reception of a cap, a disc resting on the shoulder and provided with an opening, a compartment within the lower portion of the body provided with an upwardly facing discharge opening, a closure for said discharge opening, and a flexible member terminally attached to the disc and closure and passing freely through the opening in the disc, said member providing means by which the closure may be removed, the length of said member being greater than the distance between the disc and closure, the distance between the shoulder and upper edge of the bottle neck being greater than the thickness of the disc to provide a space between the disc and the cap for the storage of a portion of said member, and said portion of said member being adapted to permit the disc to be removed without removing the closure.

2,533,807
OSCILLATING RACK ACTUATED DRIVE
Alex Horvath, Chicago, Ill.
Application September 1, 1945, Serial No. 614,020
1 Claim. (Cl. 74—133)

In a device of the character described, the combination with an elongated enclosure forming body of oblong transverse cross-section, of a flywheel rotatably mounted within said body in the region of one end thereof and on an axis extending longitudinally of the minor axis of said transverse cross-section, an actuating lever pivotally mounted on said body for pivotal movement with respect thereto on an axis extending longitudinally of said minor axis and disposed in the region of the other end of said body and said actuating lever extending from its pivotal axis in the direction of said first mentioned end of said body and being pivotally movable between extending and non-extending positions relative to a narrow side of said body and adapted to be actuated into its non-extending position by squeezing it and said body in the hand, spring means operative to actuate said actuating lever into its extending position, a segmental gear rack on said actuating lever and disposed coaxially thereof and extending within said body, a rotatable driven gear of relatively small diameter within said body and disposed coaxially of and angularly fixed with said flywheel, an



intermediate rotatable gear element within said body and disposed on an axis extending longitudinally of said minor axis and mounted for bodily pivotal movement on the pivotal axis of said actuating lever and comprising coaxial angularly fixed second and third gears respectively of relatively small and large diameters of which said second gear is permanently meshed with said gear rack and of which said third gear is adapted in opposite positions of the bodily movement of said intermediate gear element to be respectively in and out of mesh with said driven gear, stop means operative to limit bodily movement of said intermediate gear element in both directions, and yieldable means operative on said intermediate gear element to resist rotation thereof to an extent sufficient to cause it to mesh with said driven gear with initial movement of said actuating lever in one direction.

2,533,808
MANUFACTURE OF ISOPROPYL ALCOHOL FROM PROPYLENE
John Howlett, Tonbridge, and William Laurence Wood, Hull, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application March 26, 1948, Serial No. 17,368. In Great Britain April 3, 1947
6 Claims. (Cl. 260—639)

1. In a process for producing isopropyl alcohol, which comprises absorbing propylene in the liquid phase at a temperature in the range 55–70° C. in sulphuric acid of a concentration in the range 65% to 80% by weight, diluting the resulting mixture with water, and heating the diluted mixture in a hydrolysing zone to remove formed isopropyl alcohol and di-isopropyl ether in the vapour phase, the quantity of added water being

such as to leave sulphuric acid of a concentration in the range 40% to 47% by weight in the liquid phase, the steps of separating the removed isopropyl alcohol and di-isopropyl ether from each other, and recycling and absorbing the di-isopropyl ether in the sulphuric acid having a concentration in the range 65% to 80% by weight, whereby the di-isopropyl ether is converted into isopropyl sulphate which, upon hydrolysis, increases the yield of isopropyl alcohol.

2,533,809

PROTECTION OF PHOSPHORS FROM ATTACK BY ALKALI VAPORS

Walter J. Hushley and William McC. Siebert, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 3, 1948, Serial No. 36,958
5 Claims. (Cl. 250—164)

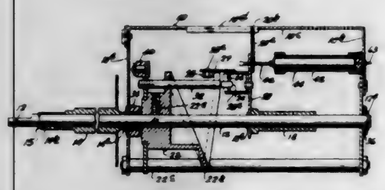
1. An electron discharge tube comprising a vacuum-tight container having a light-emitting screen comprising a layer of zinc cadmium sulphide protected by a layer of aluminum coated with silicon monoxide.

2,533,810

WIDE BAND CALIBRATED TUNER AND INDUCTOR FOR USE THEREWITH

Frederick N. Jacob, Earl R. Stout, and Leonard Miller, Chicago, Ill., assignors to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois

Application August 13, 1949, Serial No. 110,176
9 Claims. (Cl. 250—40)



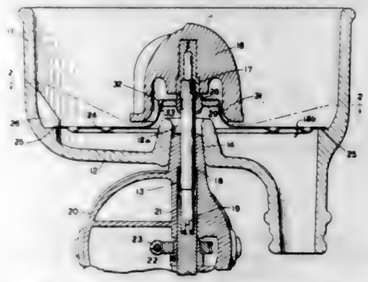
1. A multicircuit tuner operable to tune over spaced frequency bands upon predetermined movements of a tuning member, said tuner comprising in combination, a helical inductance coil corresponding to each circuit and having spaced portions of relatively low turn density and an intermediate portion of relatively great turn density, an adjustable capacitor defining a resonant circuit in conjunction with each coil, a magnetic core disposed within each of said coils and adjustably mounted relative thereto to calibrate said coils at the low frequency end of the tuning range, and a conductive tuning sleeve for each of said coils adapted to telescope over said core and adjustably mounted on the tuning member to calibrate said coils at a frequency intermediate the low and high tuning frequencies.

2,533,811

JUICE EXTRACTING DEVICE WITH VIBRATING STRAINER

Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois

Application February 1, 1946, Serial No. 644,761
17 Claims. (Cl. 146—3)



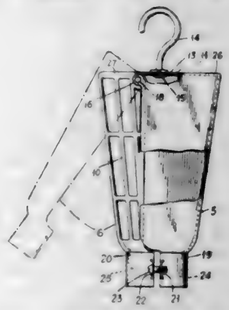
1. In a citrus fruit juice extractor including pulp and juice separating means comprising, an open top bowl having a juice outlet in its bottom, a perforated strainer substantially covering the bottom of the bowl, the bowl having a supporting ledge extending inwardly from its side wall on which the marginal portion of the strainer is supported, an interfitting connection between a marginal portion of the strainer and the bowl to retain the strainer against rotative movement within the bowl and to permit back-and-forth movement of the strainer with respect to the bowl, a reamer located within the bowl above the strainer, means for rotating the reamer, and means for imparting said back-and-forth movement to the strainer simultaneously with said reamer rotation.

2,533,812

HINGED LAMP GUARD

Chesney L. Jones, Haledon, N. J.

Application April 23, 1947, Serial No. 743,247
3 Claims. (Cl. 240—102)



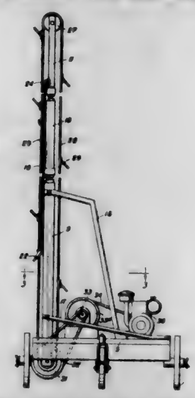
1. A lamp guard comprising two elongated substantially semi-pyramidal parts forming flared and contracted ends on said guard, one part defining a large section and the other part a small section, the flared ends having openwork flat end walls, the contracted ends of said parts terminating in flanged semi-circular clamping bands, means comprising overlapped pivot portions adjacent the end walls of said parts for pivotally coupling said parts, means clamping the bands together to support the guard in closed position, said end walls forming a square end on the guard, the end wall of the large section being larger than the end wall of the other part, and side walls of the small section being of openwork construction.

2,533,813

TOBACCO ELEVATOR

Joseph M. Jones, Lexington, Ky.

Application May 27, 1948, Serial No. 29,599
2 Claims. (Cl. 198—139)



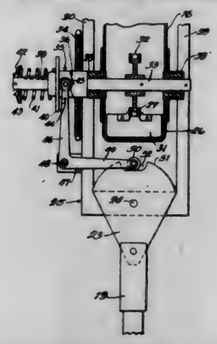
1. An elevator comprising a portable platform, an extensible mast including a fixed section on said platform, a first vertically adjustable section slidable out of said fixed section, and a second vertically adjustable section slidable out of said first section, an endless flexible conveyor carried by said fixed and second sections conjointly for tightening by sliding of said first and second sections outwardly, and crank operated means common to said first and second sections for sliding said first section out of said fixed section and said second section out of said first section simultaneously.

2,533,814

WAGON ELEVATOR THROW-OUT MECHANISM

Elof K. Karlsson, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application October 27, 1945, Serial No. 625,012
6 Claims. (Cl. 214—42)



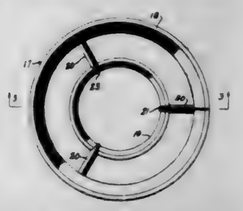
6. For a field-traversing farm implement having a trailing wagon hitched thereto, a power-operated wagon elevator attached to said implement and adapted to elevate treated crops to said trailing wagon, said trailing wagon having a forwardly extending tongue for hitching to said implement, means associated with the tongue and the implement for controlling the operation of the power-operated wagon elevator, said means including a clutch mounted on the implement, cam means on said wagon tongue for causing engagement or disengagement of said clutch, said cam means comprising a plate angularly swingable in response to angular movement of the implement with respect to the trailing wagon, said plate having a smooth arcuate surface with a central notch, and a bell-crank lever mounted for horizontal swinging movement, rollers on the ends of said bell-crank lever arms, one of said rollers adapted to ride on said plate surface and engage the notch when the implement and wagon are in straight-angle relationship and ride out of the notch when the implement and wagon are in less than straight-angle relationship, and the other of said rollers adapted to move the clutch into and out of engagement during respective movements of said first-named roller.

2,533,815

FILTER RACK

Eduardo V. Kelly, Habana, Cuba

Application March 22, 1949, Serial No. 82,796
3 Claims. (Cl. 210—160)



1. A filter rack comprising a thin walled body of truncated, conical shape, including a large diameter ring at the large end of said body, a small diameter ring at the small end of said body and spaced from said large diameter ring, and struts spaced apart at substantially equal angular intervals around said body between and interconnecting said rings, said body having a narrow slot extending longitudinally thereof through both of said rings and longitudinally of one of said struts substantially medially of the latter.

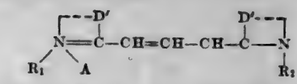
2,533,816

CYANINE DYESTUFF INTERMEDIATES

John David Kendall and Frank Peter Doyle, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

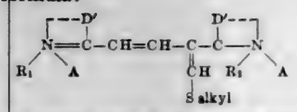
No Drawing. Application June 3, 1948, Serial No. 30,977. In Great Britain June 4, 1947
10 Claims. (Cl. 260—240.5)

8. Process for the production of dyestuff intermediates which comprises reacting a cyanine dye of the general formula:



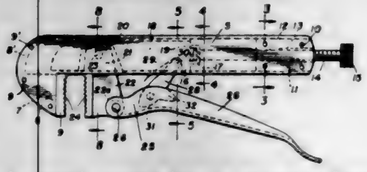
where D' constitutes the atoms necessary to complete a quinoline ring, R_1 and R_2 are alkyl radicals and A is an acid radical, with hydrochloric acid and a trithio orthoformate of the formula $HC(S\ alkyl)_3$, the reaction being effected in the presence of acetic anhydride, and separat-

ing from the reaction mixture a compound of the general formula:



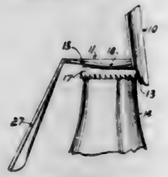
wherein the radicals have the above significance.

2,533,817
TOGGLE ACTUATED SLIDABLE JAW WRENCH
Arthur A. Koskinen, Sacramento, Calif.
Application March 24, 1947, Serial No. 736,877
2 Claims. (Cl. 81—84)



2. A wrench comprising an elongated housing having inner and outer ends, a block fixed within the inner end of said housing and having an internally threaded axial bore, a first jaw secured to the outer end of said housing, a slide received in said housing, a screw threaded rod swiveled to said slide and threaded in said bore, a second jaw pivoted to said slide and movable with said slide, said housing having a slot slidably receiving said second jaw, a lever pivoted to said second jaw, and a pitman connecting the lever to the second jaw and extending through said slot.

2,533,818
FULCRUM TYPE BOTTLE OPENER
Franz K. Krag, Chicago, Ill.
Application May 14, 1947, Serial No. 748,102
3 Claims. (Cl. 81—3.46)

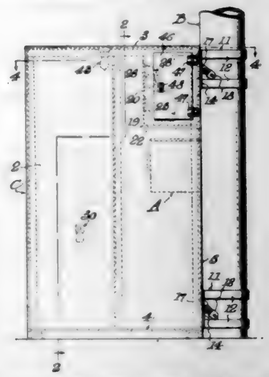


1. As a new article of manufacture, a bottle-cap remover intended for the removal of crown type bottle caps from bottles having necks with outwardly formed beads at the extreme ends of such necks and for disengagement of said crown type caps from such bottle neck beads, said crown caps having edge flanges extending axially a distance substantially equal to the axial distance of the lower edges of the neck beads from the plane of the ends of the bottle necks, said remover including an element of curved cross-section adapted to extend substantially parallel to the axis of the bottle and normal to the crown cap on such bottle and with the concave face of said element adjacent to the bottle neck and the edge of the crown cap, a cap edge engaging hook element in engagement with the concave face of the first mentioned element and having one end provided with a sharp crown edge engaging hook portion extending away from said hook element for a distance slightly greater than the thickness of the edge portion of the crown cap engaging the bottle neck and capable of engaging the edge portion of the crown cap substantially without engagement of said hook portion with the surface of the bottle neck bead, a fulcrum element secured to the first mentioned element and projecting from said first mentioned element in the direction of the concave face of said first mentioned element substantially at right angles to the first mentioned element and at a position distant from the cap edge engaging hook substantially equal to the axial dimension of the crown cap edge flange from the plane of the body portion of such crown cap, together with means to secure all of said parts rigidly together.

2,533,819
FASTENER FOR CINEMATOGRAPHIC FILMS
Frank J. Kronfield, Toledo, Ohio
Application December 22, 1948, Serial No. 66,770
1 Claim. (Cl. 206—53)

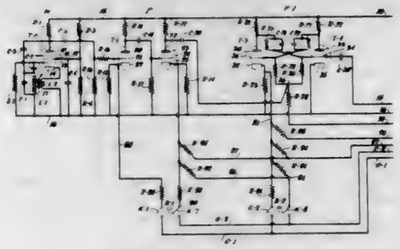
In combination with a spool having a reel of cinematographic film provided with a series of perforations and side flanges, a wire clip having a coil at one end firmly to clamp over one of the side flanges, an arm integral with said coil and projecting between said flanges, an open hook on the opposite end of said arm projecting upwardly with respect to the film reel and in engagement with the film through an adjacent perforation whereby the coil serves as a handle for attaching and removing the clip and the clip holds the film against unwinding.

2,533,820
DETECTING EQUIPMENT
Louis J. La Marca, Portsmouth, N. H.
Application November 18, 1946, Serial No. 710,654
3 Claims. (Cl. 177—371)



1. An assembled equipment unit for use in connection with a signalling device mounted on and protruding from a support, said unit consisting of an enclosure structure formed with an opening of a shape and size to receive the signalling device when said enclosure structure is positioned substantially against the support so that the signalling device will protrude through and substantially close said opening and project into said enclosure structure to be housed therewithin; means for securing said enclosure structure to said support when so positioned; an entrance opening in said enclosure structure; a door normally closing said entrance opening; a casing within and fixed to said enclosure structure and having a plurality of walls one of which is constituted by a part of a wall of said enclosure structure; a camera mounted within said casing inaccessibly to a person in said enclosure structure and being aligned to encompass said entrance opening within its view; means mounted within and on said enclosure structure adjacent said entrance opening and being operable in response to opening of said door for automatically actuating said camera; an aperture in said wall part common to said enclosure structure and said casing for providing access to the interior of said casing from the exterior of said enclosure structure; and a lock-equipped closure for said aperture.

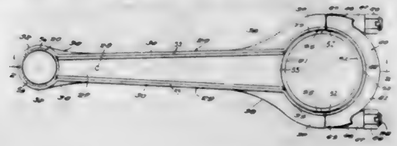
2,533,821
ELECTRICAL MUSICAL INSTRUMENT
Nicholas Langer, New York, N. Y., assignor, by mesne assignments, to Central Commercial Industries, Inc., Chicago, Ill., a corporation of Delaware
Application October 22, 1947, Serial No. 781,377
15 Claims. (Cl. 84—1.19)



1. In an electrical musical instrument, the combination which comprises a master oscillator adapted to produce sinusoidal audio-frequency oscillations of constant frequency, a pulse sharpener circuit to convert said oscillations into a train of pulses, a series of cascaded aperiodic frequency-halving trigger circuit stages responsive to said pulses by the generation of octavely related pulses of complex wave form characterized by a harmonic composition from which certain of the harmonics are absent, a plurality of output terminals, and coupling elements for supplying signals from selected respective groups of octavely adjoining stages to each of said terminals resulting in composite signals of complex wave form at said terminals characterized by a practically unbroken series of harmonics.

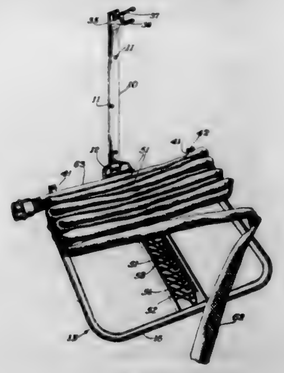
2,533,822
CONNECTING ROD AND CAP AND METHOD OF MAKING SAME
Fred A. Lee and Fred J. Shappell, Fort Wayne, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application January 17, 1947, Serial No. 722,478
6 Claims. (Cl. 74—588)

1. A light-weight connecting rod fabricated of a plurality of components secured together, comprising: a tubular piston pin member; a semi-circular crank pin member spaced from, and having its axis parallel to the axis of, the piston pin member; means forming an opening through the wall of the piston pin member on an axis normal to the axis of said member; means forming an opening similarly disposed in the wall of the crank pin member; a U-bolt embracing the crank pin member and including an opening alined with the opening in said member; an oil tube carried at one end by the opening in the piston pin member and at its other end by the openings in the U-bolt and in the crank pin member; a pair of channels arranged in back-to-back relationship



with the oil tube therebetween and parallel thereto, and having their opposite ends abutting the piston pin member and the crank pin member, said channels, at their crank pin ends being arranged with a portion of the U-bolt therebetween; a pair of side straps, each lying in a plane normal to the planes of the backs of the channels, secured to the channels; and means at opposite ends of the straps securing the said ends respectively to the piston pin member and to the crank pin member.

2,533,823
FIRE HOSE SUPPORT
Floyd J. Lee, Fullerton, Calif., assignor to Akron Brass Mfg. Company, Inc., Wooster, Ohio, a corporation of Ohio
Application June 10, 1948, Serial No. 32,213
7 Claims. (Cl. 248—89)



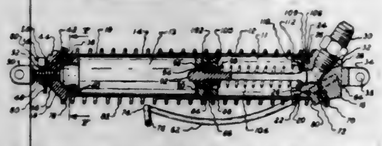
1. A support for a hose or the like adapted to support the hose in a plurality of accordion folds, one above another, and to promote orderly removal of the hose, comprising a strap affixed to a wall of a building structure, a normally upright frame thereon adapted to abut one side of the folds of hose and supporting means for each fold of the hose extending laterally from the frame when the frame is in its normal position, the supporting means being disposed at the central part of the fold, and being mounted so as to swing freely toward the plane of the frame to facilitate sliding of the hose from the frame.

2,533,824

said rabble is partially immersed in the molten

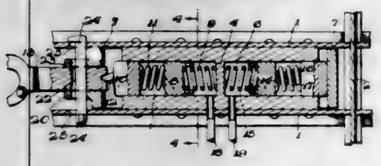
2,533,830

2,533,824
MASTER CYLINDER OF TELESCOPIC CONSTRUCTION
Erwin F. Loweke, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
Application April 10, 1947, Serial No. 740,665
8 Claims. (Cl. 60—54.6)



1. A master cylinder for fluid pressure systems comprising a pair of telescopic tubes, an end piece mounted in each of said tubes, attachment means associated with one of said end pieces for connecting said tubes to a fluid pressure system, a catch associated with one of said end pieces, an external spring associated with said tubes and said end pieces urging said end pieces away from each other, and a parking member pivotally mounted in one of said end pieces and fitted to engage said catch on the other of said end pieces to hold said tubes in their telescoped position.

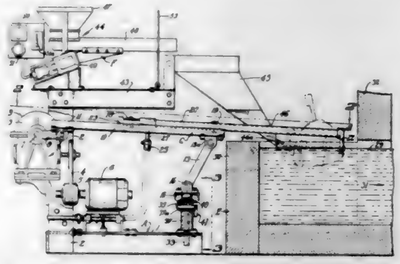
2,533,825
DRAFT BAR RIGGING FOR RAILWAY CARS
Glenn W. Lowry, Osborn, Ohio
Application January 10, 1947, Serial No. 721,340
3 Claims. (Cl. 213—43)



1. A draft bar rigging, comprising a slidable yoke formed at one end with an opening through which the draw bar passes, a rigid block confined in the yoke and on which the yoke slides, oppositely disposed independent chambers in the block, an end plunger in each chamber, the end plunger in the forward chamber having a tapered projection engaging in a similar shaped depression in the end of the draw bar, the end plunger in the rear chamber engaging the rear of the yoke, each said chamber having a second plunger with adjacent springs, pipes connected with the main train air line for introducing air pressure to the respective chambers behind the second-mentioned plungers, and check valves in the pipes to hold the pressure in the chambers when pressure in the train line falls.

2,533,826
APPARATUS FOR AND METHOD OF CHARGING BATCH TO GLASS FURNACES
Aaron K. Lyle, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a corporation of Delaware
Application June 10, 1947, Serial No. 753,747
5 Claims. (Cl. 49—54)

1. A device for charging batch materials to glass melting furnaces comprising a movable rabble, means operatively associated with said rabble to move it cyclically along a closed path within a portion of the glass furnace so that said rabble is partially immersed in the molten glass of the furnace for a part of its travel during which it has a forward component of motion in the glass and is moved above the molten glass level for the remainder of its travel along said path, and batch feeding means constructed and arranged to supply a regulated flow of batch onto the glass in the furnace directly behind and adjacent to the portion of the path of travel of said rabble with a forward component of motion in the glass.



4. The method of charging a glass melting furnace with batch material which comprises moving a rabble cyclically along a predetermined closed path of motion lying partially beneath the level of the molten glass of the furnace so as to create a current therein at the surface thereof, feeding batch material onto the molten glass directly back of the rabble when the latter is at the beginning of the portion of its path of movement lying partially beneath the level of the molten glass so as to cause the batch material thus fed to flow with the current on the surface of the glass behind the rabble, and infolding the batch material thus caused to flow with the current by a displacement of glass occurring during the successive cycle of movement of the rabble along its predetermined path partially beneath the level of the molten glass.

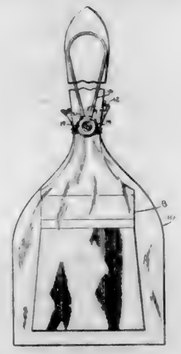
2,533,827
CASKET SEALING MEANS
James J. McEwan, Batesville, Ind., assignor to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana
Application February 2, 1946, Serial No. 645,112
11 Claims. (Cl. 27—17)

3. In a burial casket of the type including a body, independently movable top sections mounted on the body at the rear thereof and having their inner ends disposed immediately adjacent when closed, a marginal sealing gasket means extending entirely around and between the adjacent margins of the body and top sections, a transverse sealing gasket adapted to seal the joint between the top sections, said transverse gasket mounted relative to the inner end wall of one of said top sections, the ends of said transverse gasket directed downwardly toward the marginal sealing gasket means and the end surfaces thereof abutting the marginal gasket means when said top section is closed.

2,533,828
CASKET SEALING MEANS
James J. McEwan, Batesville, Ind., assignor to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana
Application February 2, 1946, Serial No. 645,113
10 Claims. (Cl. 27—17)

3. In a burial casket of the type including a body, independently movable top sections mounted on the body at the rear thereof and having their inner ends disposed immediately adjacent when closed, a marginal sealing gasket extending around the margin of the body and including an integral transverse gasket adapted to seal the joint between the top sections.

2,533,829
STORAGE BAG FOR PAINTBRUSHES AND THE LIKE
Gerald Merryweather, Cuyahoga Falls, Ohio
Application October 18, 1947, Serial No. 780,654
3 Claims. (Cl. 206—15.1)

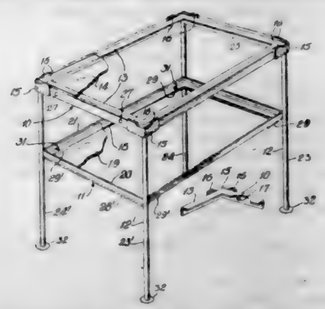


1. In combination, a paint brush, a substantially flat, fluid-tight, transparent bag of rubber hydrochloride receiving the brush except the end of the handle, said open end of the bag being gathered around substantially the smallest part of the handle of the brush, one part of a snap fastener being secured to the bag near its open end, a looped resilient cord being secured near the cord center to the bag by the last-named fastener part, the loop in the cord permitting the bag and brush to be hung up thereby on a nail or the like, a cooperating part for the snap fastener being secured to the unlooped ends of the cord spaced from the said one part of the snap fastener, the portion of the cord intermediate the snap fasteners being wrapped in tension around the portion of the bag gathered around the handle of the brush and the cooperating part of the snap fastener being releasably secured to the said one part of the snap fastener on the bag whereby the brush is substantially sealed in the bag.

2,533,830
VIBRATOR-EXCITING ACTION
Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc., Harding Township, N. J., a corporation of New Jersey
Application July 14, 1947, Serial No. 760,795
10 Claims. (Cl. 84—237)

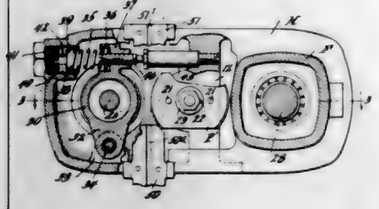
1. In a key-operated action for exciting the vibrator of a musical instrument, a hammer movable to strike the vibrator; means, moved by the key in a hammer-propelling path and retained in a limiting position in that path while the key remains operated, for propelling the hammer toward the vibrator, to and from which means while in that position the hammer attempts to oscillate after striking the vibrator; normally inoperative means for braking the hammer; a flexible member included in said braking means to permit its establishment in operative condition; and inertia means included in said braking means and cooperating with said flexible member to maintain the braking means in inoperative condition during hammer propulsion but to place the braking means in operative condition during such attempted hammer oscillation.

2,533,831
KNOCKDOWN TABLE
Charles P. Molla, New Hyde Park, N. Y., assignor to Molla Incorporated, New York, N. Y., a corporation of New York
Application June 7, 1946, Serial No. 675,161
3 Claims. (Cl. 211—148)



1. In knockdown tables of the class described, two table frames comprising peripheral frame strips of L-shaped cross-sectional form forming horizontal and vertical wall portions, A-shaped leg frames detachable with respect to said table frames for supporting the same in producing a table having vertically spaced table frames at the upper portion thereof, a horizontal wall portion of the upper frame being arranged uppermost and of the lower frame lowermost, the horizontal wall of the lower frame forming means for supporting a table panel against displacement thereon, and means on the upper frame extending above the upper surface of the horizontal wall thereof for retaining the table panel against displacement therefrom.

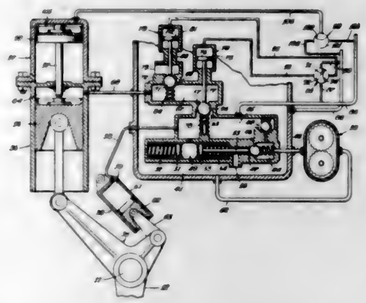
2,533,832
SEALING MECHANISM
Charles Z. Monroe, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application October 14, 1947, Serial No. 779,682
1 Claim. (Cl. 154—42)



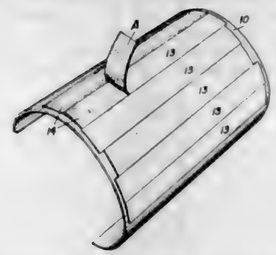
A machine of the class described comprising, in combination, two rotary sealing members together defining a pass for work to be acted upon, spindles upon which said members are mounted, a frame, spindle supports carried by the frame, one of said supports being mounted on the frame for arcuate movement about an axis toward and away from the other support, and means for maintaining said movable support in desired relation to the second support while permitting separation of said supports when the sealing members are forced apart by the work, said means including a stop member, a stop engaging part and a spring disposed in coaxial relationship along a line offset from said movable spindle support and generally tangential to an arc centered on said axis at the outer end of a radius extending from said axis and passing through said movably mounted spindle, the movable support having an extension upon which the stop engaging member is supported for longitudinal adjustment, the stop being mounted on an adjacent portion of the frame and the spring is interposed between said extension and a second frame portion.

2,533,833
OPPOSED HYDRAULIC RAM POWER TRANSMISSION, INCLUDING HYDRAULICALLY OPERATED POWER TRANSMISSION STOP
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 10, 1946, Serial No. 689,770
2 Claims. (Cl. 60—52)

2. In a hydraulic system for controlling the position of a pivotal structure, a principal ram device operably connected with the said structure and expansible by the introduction of fluid into a portion of the bore thereof constituting an expansion chamber for advancing the ram plunger and thereby pivoting said structure in one direction, a stop ram device of which the plunger thereof is reciprocable in parallelism with that of the principal device and has a portion projecting into the chamber of the principal device for abutment with its plunger to limit retractive movement thereof during contraction of the principal device's chamber, the bore of the stop ram device also having a portion constituting a chamber expansible by the introduction of fluid thereinto for projecting the plunger portion farther into the principal device's chamber, both of said plungers being retractive under the influence of force tending to pivot said structure in the opposite direction when fluid is exhausted from the expansible chambers of said devices, a fluid source having relatively high and low pressure sections, conduit means for communication between the chamber of the principal device and said high pressure section, an admittance check valve in said conduit means and including a member seatable in the direction of flow from said high pressure section to said chamber for closing said valve but being unseatable in the opposite direction for establishing communication between said high pressure section and said chamber, exhaust conduit means for communication between the principal device's chamber and the low pressure section of said source, an exhaust check valve in the exhaust conduit means and seatable in the direction of exhaust flow to prevent such flow but unseatable to accommodate such flow, hydraulic motors respectively associated with said seatable valve members and each being energizable when subjected to a pressure differential for unseating its associated valve member, and a control valve for establishing alternative communication between said motors and the high and low pressure sections of said source pursuant to adjustment thereof in respectively opposite directions from a neutral position, said valve being operable while in neutral to establish communication from the low pressure section to the admittance valve motor for de-energizing the same and thereby causing closure of said admittance valve, said control valve being operable when adjusted in one position from the neutral to establish communication between the high pressure section of the source and the admittance check valve motor for opening the same and causing fluid delivery for advancing the plunger of the principal ram concurrently with incurring communication between the exhaust check valve motor and the low pressure section of said source for de-energizing this motor and incurring closure of the exhaust check valve, said control valve being operable when adjusted in the opposite direction from neutral for maintaining communication between the admittance valve motor and the low pressure section of said source and for establishing communication between the high pressure section of said source and the exhaust check valve motor to cause exhaust of fluid from the principal ram chamber and retraction of the principal ram plunger under the influence of said force for pivoting the pivotable structure in the opposite direction, and a second control valve connected between the stop ram chamber and said source, the second control valve having a neutral position wherein it causes isolation of the stop ram chamber and being adjustable in opposite directions from the neutral position for respectively communicatively connecting the stop ram chamber with the high and low pressure sections of said source.

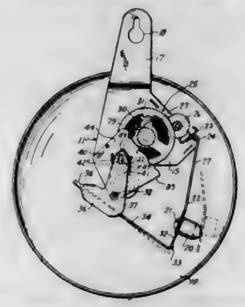


2,533,834
CYLINDER PRESS EMBOSSING AND METHOD OF PRODUCING THE SAME
Hans Peter Otto, San Francisco, Calif.
Application August 20, 1947, Serial No. 769,753
1 Claim. (Cl. 101—401.2)



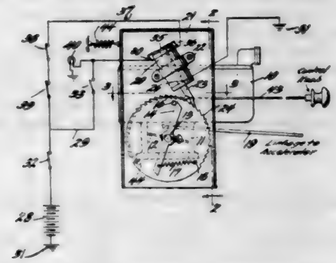
That method of producing on a press having a reciprocating base and a cooperating rotary cylinder mating embossing dies which consists in first producing an intaglio plate corresponding to the embossing desired, securing said plate on the press base, coating the press cylinder with strips of gummed paper and allowing the same to adhere to the cylinder, stripping the paper from the cylinder whereby to leave a portion of the gum on the cylinder to form a tooth, applying soft cement on the gummed surface of the cylinder in conformable relation to the plate, operating said press and thereby causing the cement to fit into the intaglio of said plate, and allowing said cement to harden.

2,533,835
THERMAL ALARM DEVICE
Delos M. Palmer, Toledo, Ohio
Application March 17, 1950, Serial No. 150,130
1 Claim. (Cl. 116—102)



An alarm device comprising a gong, a bracket carried by the gong, a clapper including an arm and hammer, a motor having escapement mechanism including an escapement pawl pivoted to said bracket, a connection between said clapper arm and bracket enabling actuation thereof upon operation of the motor and recurrent impact of the hammer against the gong, a bi-metallic thermostatic arm normally holding said clapper arm ineffective by a loose hook connection and adapted to release same upon predetermined change in temperature condition, a bell crank arm providing a rigid mounting for one end of said thermostatic arm and pivoted to said bracket, a pointer on said bell crank arm, and a dial for said pointer whereby adjustment of the pointer relative to the dial varies the pressure of the thermostatic arm against the clapper arm and indicates the temperature at which the thermostatic arm releases the clapper arm.

2,533,836
THROTTLE OPERATING MECHANISM
Jack H. Patterson, Waco, Tex.
Application August 5, 1949, Serial No. 108,816
12 Claims. (Cl. 192—.058)



1. A device for retaining a selected rate of fuel feed to a power plant subject to immediate release from such retention and movement in feed increasing direction comprising, means for regulating the rate of fuel admission to the power plant, a member including a rotatable shaft connected with said regulating means to rotate in correspondence with variations in the setting of said regulating means, means freely supported on the said rotatable shaft and arranged to immediately engage said member when said member is caused to move by movement of said member is means in fuel decreasing direction, a solenoid positioned in relation to said freely supported means to permit the armature of said solenoid to engage and restain movement of said freely supported means when said solenoid is energized, and means operated by other controls acting to regulate the speed of operation of said power plant for de-energizing said solenoid.

2,533,837
VEHICLE BUMPER AND ADJUSTABLE PIPE RACK
Clarence E. Pauley, Hopkinsville, Ky.
Application October 8, 1948, Serial No. 53,554
2 Claims. (Cl. 293—69)

1. Adjustable supporting means for a motor truck having a chassis, comprising a pair of laterally spaced horizontal longitudinal bars secured to the forward end of the chassis and extending longitudinally forwardly thereof, a substantially horizontal transverse bumper arranged adjacent to the forward ends of the bars and extending between the bars and laterally outwardly thereof, the length of the bumper being substantially the same as the width of the truck, the bumper being T-shaped in transverse cross section and including a vertical web secured to the forward ends of the bars and a horizontal web secured to the top of the vertical web and disposed above the bars and projecting forwardly and rearwardly of the vertical web, the horizontal web being provided forwardly of the vertical web with inner and

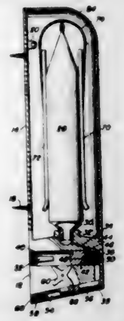
outer longitudinally spaced openings, opposed elongated channel-shaped members slidably mounted upon the horizontal web for movement longitudinally thereof and including downturned sides for engagement with the longitudinal side edges of the horizontal web, the downturned sides being formed at their bottoms to provide lower inwardly extending flanges for engagement beneath the horizontal web, the channel-shaped members having openings adjacent to their inner ends for registration with the inner and outer openings of the horizontal web, bolts for engagement with the openings of the horizontal web and channel-shaped members for locking the members in the selected adjusted position, and upstanding support members secured to the tops of the channel-shaped members near their outer ends and projecting above the same.

2,533,838
PAINTBRUSH WITH SCRAPER BLADE
Edward J. Ranft, Woodside, N. Y.
Application September 14, 1945, Serial No. 616,273
1 Claim. (Cl. 15—111)

A paint brush comprising a handle, bristles at one end of the handle, a ferrule embracing a portion of the handle and overlying the ends of the bristles adjacent the handle, said handle having an axial elongated rectangular opening extending thereinto from the end carrying the bristles and also having a longitudinal slot opening through one side into the axial opening, the handle also having a laterally extending notch at each end of the slot and a similar notch intermediate the ends of the slot, a flat elongated blade mounted in the opening in the handle to slide from a fully retracted position in which its outer end lies wholly within the ferrule to a fully extending position where it extends well beyond the free ends of the bristles to form a brush support, an arm pivoted to the blade adjacent its innermost end and a locking pin on the arm and projecting through the slot in the handle, said pin cooperating with the notches in the handle in locking the blade in fully projected position, fully retracted position, or in an intermediate position where it may be used as a scraper for a surface being painted and a thumb button on the outer end of said pin.

2,533,839
TOOTHPASTE EJECTOR
Allen D. Robinson, Kenosha, Wis.
Application May 17, 1948, Serial No. 27,441
2 Claims. (Cl. 222—103)

1. A paste dispenser comprising a casing adapted to be secured to a vertical support, a housing detachably mounted on the casing, said housing being adapted to have an inverted paste tube disposed therein with one end of the tube being detachably attached to the casing, a chamber in said casing, said chamber having a discharging orifice, a communicating passage between the attached end of the tube and the chamber, means for compressing the tube to constantly force the paste through the passage into the chamber, a piston slidably disposed in the chamber, sealing means formed on one end of the piston, said sealing means being adapted to close off



the passage, resilient means for normally retaining said sealing means out of an operative position, said resilient means being positioned in the chamber and bearing against the sealing means, a valve slidably disposed in the casing below the piston and adapted to move transversely in the discharge orifice, means journalled in the casing being engageable with the piston and valve for moving the valve in one direction to uncover the discharging orifice and for simultaneously moving the piston in the opposite direction to close off the communicating passage.

2,533,840
PROCESS FOR INHIBITING FRETTING CORROSION
Theodore G. Roehner, Mount Vernon, and Chester D. Thayer, Baldwin, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 30, 1948, Serial No. 52,138
4 Claims. (Cl. 252—19)

1. The method of inhibiting fretting corrosion at adjacent faces of closely fitted metal parts subject to vibration but not to substantial relative movement in use which comprises applying between said parts a film of a pasty carrier having dispersed therein about 0.1 to about 15 per cent by weight of finely divided metallic indium.

2,533,841
PLASTIC REFILL WAX PAPER DISPENSER
Columbus Bennett Russell, Seattle, Wash.
Application September 9, 1946, Serial No. 695,697
2 Claims. (Cl. 242—55.5)

1. A dispenser for a roll of sheet material wound on a tubular core comprising hollow journal studs engaging the ends of the core of the roll, means on said journals engaging with said core to interlock said journals and said core, annular rings on said journals engaging the opposite ends of said roll, a vertical flange on said rings, a horizontal shoulder on said flange, a substantially cylindrical flexible cover for the roll having its ends engaging the flange and

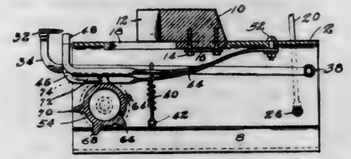
shoulder on each journal and the longitudinal edges overlapping and the end of the sheet ma-

terial passing between the overlapping edges and the outer overlapping edge having a serrated edge for cutting the sheet material.

2,533,842
METHOD FOR PREPARING CHLORINE DIOXIDE GAS
Johan Waldemar Sevón and Frey Viking Sundman, Kuusankoski, Finland; Karl-Gustaf Birger Fogelholm, administrator of the estate of said Johan Waldemar Sevón, deceased, assignors to Kymin Osakeyhtio-Kymmene Aktiebolag, Kuusankoski, Finland, a company of Finland
No Drawing. Application May 16, 1946, Serial No. 670,317. In Sweden March 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 17, 1964
6 Claims. (Cl. 23—152)

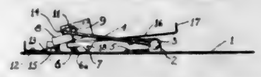
1. A process of producing chlorine dioxide which comprises contacting a member of the group consisting of sulfur dioxide and gas mixtures containing sulfur dioxide with a chlorate containing solid in the presence of insufficient water to dissolve the chlorate, with mechanical agitation to increase the extent of contact between the gas and the solid.

2,533,843
VEGETABLE SLICER
Charles O. Sipe, Woody, Calif.
Application April 27, 1948, Serial No. 23,555
7 Claims. (Cl. 146—78)



1. A vegetable slicer comprising a frame having a top plate, a feed block reciprocable on the plate and means for moving the block, a resiliently depressed knife blade horizontally positioned forwardly of and spaced from the plate, a series of resiliently depressed cutters vertically movable in the space between the knife and the plate, and manually operated means for selectively adjusting the knife and cutters above or below the plate to vary the cut of the vegetable as it is moved beyond the end of the plate.

2,533,844
ANIMAL TRAP
Francis A. Snell, Tinmouth, Vt.
Application May 4, 1946, Serial No. 667,359
8 Claims. (Cl. 43—83.5)

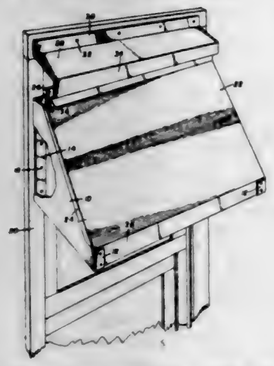


1. A self-latching animal trap comprising a base member, a hinged jaw cooperating with said base member, a fulcrumed latching-piece adapted to be rotated either into or out of engagement with the jaw, stop means giving said latching-piece two positions of rest in one of which positions the latching-piece will engage the jaw and in the other of which positions it will release the jaw, spring means adapted to give the latching-piece a dead-center position between its positions of rest and to bias the latching-piece equally toward either position of rest when the dead-center position is passed, and a trigger adapted to initiate movement of the latching-piece from its jaw-engaging position to its jaw-releasing position.

2,533,845
FLOWERPOT HANGER
Carl Stender, Richmond, Calif.
Application September 9, 1946, Serial No. 695,724
1 Claim. (Cl. 248—318)

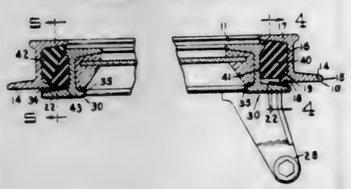
In association with a flower pot provided at the upper edge thereof with an outer marginal flange, a hanger comprising in combination, a member attached to supporting structure and having a loop at its lower end, a plurality of wires connected at one end to said loop and member and extending downwardly and outwardly therefrom, one of said wires being secured to said member above said loop, others of said wires being secured to said loop, a hook formed at the lower end of each of said wires, and a clip removably suspended from each of said hooks, each of said clips comprising a resilient strap doubled upon itself to form a pair of flat spaced arms of unequal length, said arms engaging the lateral wall of said pot, and the free end portion of the relatively short arm being angulated toward the relatively long arm and forming a flat seat for the lower edge of said flange, and the relatively long arm having lateral edges to grip the curved inner surface of the flower pot and to prevent inadvertent sliding of the clip circumferentially of the flange.

2,533,846
RIGID AWNING
Bruce C. Stene, Fairmont, W. Va.
Application March 14, 1947, Serial No. 734,691
3 Claims. (Cl. 20—57.5)



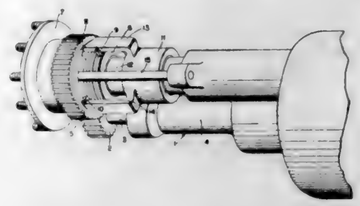
1. A rigid awning including end caps having inner edges and a roof, means for securing said caps at their inner edges to a supporting surface, means for securing and mounting said roof upon said end caps in inclined position, the upper edge of said roof being spaced laterally from said supporting surface and free of engagement or connection therewith throughout its entire length and forming an unobstructed air vent therebetween, a storm cap abutting and carried by said supporting surface and overhanging said air vent and the upper edge of said roof, said upper edge of said roof terminating in a vertical upwardly extending flange, said storm cap terminating in a downwardly extending flange outside and overlapping said vertical flange.

2,533,847
WEATHER STRIP INSTALLATION FOR WINDOWS
John G. Sullivan, Roseville, and Frank R. Smith, Detroit, Mich., assignors to Chamberlin Company of America, Detroit, Mich., a corporation of Michigan
Application May 3, 1948, Serial No. 24,776
2 Claims. (Cl. 189—65)



1. A window construction comprising a main frame having a web defining an opening and having flanges extending in opposite directions from the inner and outer edges of the web, a sash frame positioned within the main frame and having one side edge hingedly connected to the adjacent side edge of the main frame for swinging movement, said sash having a web spaced laterally inwardly from the web of the main frame and having a flange extending laterally outwardly from the outer edge of the web and engageable with the outer side of the main frame, a flange extending laterally inwardly from the inner edge of the sash frame web and engageable with the outer side of the inner flange on the main frame, weather strips supported on the outer flanges of the top and side bars of the sash frame and having portions respectively engageable with the outer surfaces of the corresponding bars of the main frame, a weather strip supported on the inner flange of the bottom sash bar and having a portion engageable with the adjacent face of the inner flange on the bottom bar of the main frame, a resilient block supported in the main frame at the lower end of the main frame side bar adjacent the hinged side of the sash frame and engageable with the corresponding side bar of the sash frame in the closed position of the latter to close the adjacent end of the space existing between the web portions of the bottom bars of the sash and main frames, a resilient block supported in the main frame at the lower end of the main frame side bar adjacent the swinging side of the sash frame and having an inclined face, and a resilient block supported on the lower end of the side bar at the swinging side of the sash frame and having an inclined face engageable with the inclined face of the adjacent block on the main frame in the closed position of the sash frame to close the other end of the space aforesaid between the web portions of the bottom bars of the sash and main frames.

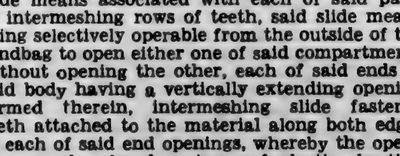
2,533,848
LIMITED MOVEMENT CLUTCH
Edward C. Swilik, Cleveland, Ohio
Application October 6, 1948, Serial No. 53,081
8 Claims. (Cl. 192—41)



1. In a clutch, a driven rotatable member, a coil spring in frictional engagement with said member and having end portions, a control member having a pair of protruding portions extending from circumferentially spaced sections thereof, each of said portions of said control member being positioned to be engaged with an opposite end portion of said coil spring to be moved thereby in a direction dependent upon the direction of rotation of said driven member, and a stop member positioned circumferentially intermediate the end portions of said coil spring and positioned to be struck by same upon rotation of said coil spring through a predetermined arc to prevent further rotation of said coil spring and control member.

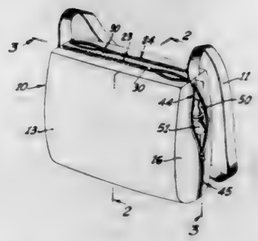
2,533,849
MEAT TENDERIZER
Richard Sybenga, Chicago, Ill.
Application August 13, 1947, Serial No. 768,400
11 Claims. (Cl. 17—30)

1. A meat tenderizer comprising a plurality of blades secured together in spaced relation, an elongated stripper having upwardly extending end portions movably mounted between said blades, retaining means at each end only of some of said blades to support the upwardly extending end portions of said stripper and limit the outward movement thereof, and yieldable means



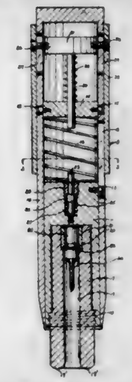
normally urging said stripper against said retaining means.

2,533,850
UTILITY HANDBAG HAVING DOUBLE COMPARTMENT WITH INDIVIDUAL CLOSURES AND INDEPENDENTLY ACCESSIBLE BOTTLE POCKETS
Frances P. Syracuse, Los Angeles, Calif.
Application September 13, 1947, Serial No. 773,747
1 Claim. (Cl. 150—34)



A handbag for carrying clean and soiled infant's diapers and nursing bottles, comprising a rectangular body having horizontal top and bottom edges, and vertical sides and ends, said top edge having two laterally spaced, longitudinally extending openings formed therein separated by a narrow strip of material, a waterproof partition panel within said body dividing the interior thereof into two laterally spaced compartments, one of which is adapted to receive clean diapers, and the other being adapted to receive soiled diapers, the top edge of said panel being attached to the underside of said strip of material, closure means for said openings comprising rows of slide fastener teeth attached to the material along opposite edges of each of said openings, the two companionate rows of teeth along the side of each of said openings being adapted to intermesh with one another to close the opening, slide means associated with each of said pairs of intermeshing rows of teeth, said slide means being selectively operable from the outside of the sandbag to open either one of said compartments without opening the other, each of said ends of said body having a vertically extending opening formed therein, intermeshing slide fastener teeth attached to the material along both edges of each of said end openings, whereby the openings can be closed, waterproof plastic sheeting attached to the inside of said handbag body along the inside edges of said end openings, said plastic sheeting forming pockets within the interior of said body in which nursing bottles can be carried entirely separate from said diaper compartments and protected from contamination, and a slide for operating each of said end slide fasteners from the outside of the bag to provide access to either of said bottle pockets without opening said diaper compartments.

2,533,851
TOOL
Stanley Albert Temple, Lakewood, Ohio, assignor, by mesne assignments, to Portable Industries, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 11, 1947, Serial No. 760,217
10 Claims. (Cl. 1—47)

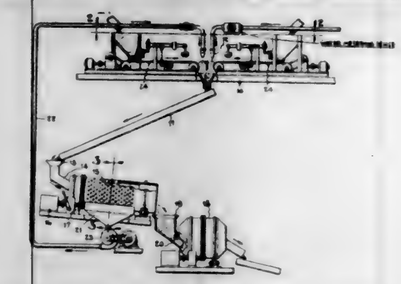


1. In a tool of the character described, an elongated housing, a carrier in said housing, said housing and said carrier having limited longitudinal slidable movement relative to one another, a firing pin carried by said carrier, a barrel slidable in said housing and removably secured to said carrier, spring means for normally urging said carrier and said barrel toward the front end of said housing, the front end of said barrel being normally projected from the front end of said housing, a plunger in said housing for engagement with said firing pin, said plunger and said housing having limited longitudinal slidable movement relative to one another, spring means for normally urging said plunger toward the rear end of said housing, said plunger and said firing pin being normally separated a greater distance than the extent to which said barrel is normally projected from the front end of said housing, with the result that there must be both relative longitudinal movement of said housing and said carrier and relative longitudinal movement of said housing and said plunger to bring about engagement of said plunger and said firing pin, said two spring means being disposed on opposite sides of and bearing against a fixed abutment with which said housing is provided, and a hand hold sleeve slidably mounted on the outer surface of the rear end portion of said housing and to which said plunger is secured for movement therewith, whereby upon forward sliding movement of said hand hold sleeve, and with the projecting front end of the barrel against a fixed abutment, said plunger is moved toward the firing pin and the housing is moved forwardly relative to said carrier and said barrel.

2,533,852
PROCESS AND APPARATUS FOR PREPARING CONCRETE
Chester Tietig, Park Hills, Ky.
Application August 6, 1945, Serial No. 609,176
18 Claims. (Cl. 259—146)

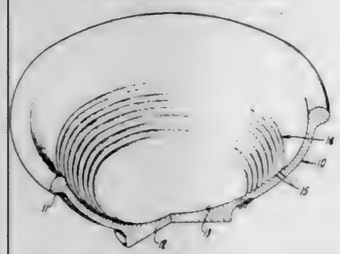
1. The process which comprises admixing the non-cement constituents of concrete with a sufficient excess of water over what they require in a normal concrete mix to render them freely flowing, conveying the said mixture by gravity to the immediate neighborhood of the place

where the concrete is to be prepared and used, adding cement sufficient to make a normal concrete mixture in respect to all other constituents



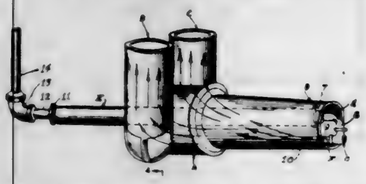
except that water is in excess, then mixing said cement with the other constituents under efficient de-watering conditions until a normally well-mixed and normally wet mix is obtained.

2,533,853
SALAD BOWL
Viola E. Tinder, Auburn, Calif.
Application June 23, 1947, Serial No. 756,472
3 Claims. (Cl. 65—15)



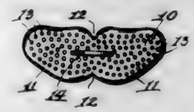
1. A salad bowl comprising a bowl-shaped imperforate body defining an interior surface, the internal walls of which are continuously curved upwardly from a central bottom point constituting a substantially parabolic curve in vertical section, the lower central portion of said surface and the upper portion adjacent the edge of the bowl having a relatively smooth contour and an intermediate circular portion having an abrasive surface formed by undulations in the curvature.

2,533,854
VAPORIZER TYPE OIL BURNER
Scott C. Towar, Burbank, Calif.
Application March 13, 1945, Serial No. 582,498
5 Claims. (Cl. 158—65)



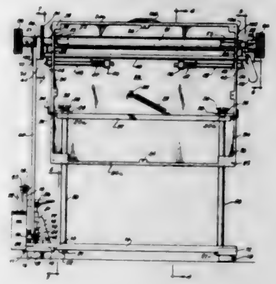
1. An oil burner comprising a housing having an open and a closed end, said housing being unrestricted in the direction of said closed end, outlet tubes communcating with the housing adjacent to the closed end and on opposite sides of the housing, an oil vapor generating tube disposed within and spaced from the housing wall, said tube extending throughout the length of the housing and projecting through the closed housing end, means for feeding oil to the oil vapor generating tube, and a burner jet communicating with the oil vapor generating tube end disposed closest to the open end of the housing, said jet directing a flame into the housing, the housing and outlet tubes creating a natural draft for carrying the flame directly against the oil vapor generating tube and along the length thereof, whereby the fuel in the oil vapor generating tube is vaporized and gasified before reaching the jet.

2,533,855
ANTERIOR DENTAL TRAY
Vaselei V. Ushanoff, Hollywood, Calif.
Application April 15, 1947, Serial No. 741,447
3 Claims. (Cl. 32—17)



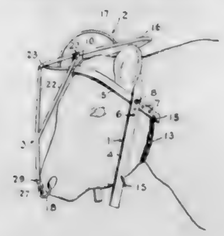
1. An anterior dental tray for simultaneously taking impressions of the front faces of the anterior teeth in both upper and lower jaws, comprising a one piece plate of thin material, substantially elliptical in shape and gradually decreasing in width toward both ends and which plate is arcuately curved throughout both length and width.

2,533,856
COPYHOLDER
Harry Van Buren, Dallas, Tex.
Application May 24, 1949, Serial No. 95,007
4 Claims. (Cl. 120—31)



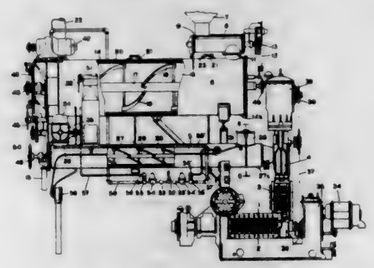
1. In a copy holder, a combination with an L-shaped base composed of a rear cross piece and a forwardly extending lateral piece both being of cast metal and mortised at their overlapping ends, and vertical guide rods on the rear piece, of a cast metal panel having rearwardly extending flanges guided on the rods, an adjustable cross bar slidably retained by said panel and extending beyond the sides thereof, said bar interlocking with the rods to hold the panel in elevated position, spring means connecting said panel and rods biasing the panel to a non-elevated position, cooperating paper feed rolls on the panel, a ratchet on one of the rolls and a pawl for operating it, a spacing lever on the lateral base piece and an arm extending vertically from its rear end for actuating the ratchet.

2,533,857
BULL BRIDLE
Marion Roger Warrick, Greenville, Ohio
Application June 28, 1949, Serial No. 101,851
7 Claims. (Cl. 119—142)



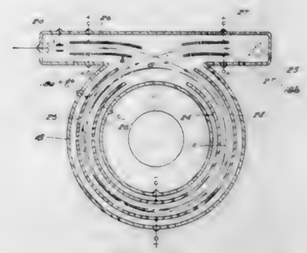
1. In an apparatus of the class described, the combination of a halter comprising a primary halter section, an auxiliary halter section mounted on said primary halter section, a forehead section attached to said auxiliary halter section and to said primary halter section, a head frame normally spaced above an animal's head movably mounted on said halter section, and a nose section normally spaced above an animal's head movably mounted on said head frame.

2,533,858
METHOD OF EXPRESSING OIL
Frederick W. Weigel, Fairview Village, Ohio, assignor, by mesne assignments, to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Continuation of application Serial No. 389,207, April 18, 1941. This application November 5, 1943, Serial No. 509,037
6 Claims. (Cl. 260—412.2)



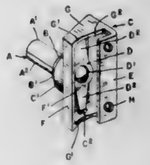
1. A process for treating oil bearing proteinaceous material of vegetable origin to express the liquid content therefrom, comprising heating said material for a period of at least 30 minutes at a temperature at least 10 degrees lower than the predetermined optimum oil-expressing temperature for the particular material, immediately thereafter subjecting said material for approximately ten minutes to a conditioning treatment to reduce and stabilize the moisture content, at a temperature higher than the first heating temperature but not higher than said optimum oil-expressing temperature, and, at the conclusion of said conditioning treatment, without substantial loss of time or temperature, subjecting the material to continuous expressing action at said optimum temperature, whereby the oil is expressed therefrom.

2,533,859
IMPROVED INJECTION SYSTEM FOR MAGNETIC INDUCTION ACCELERATORS
Rolf Wideröe, Oslo, Norway, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application June 2, 1947, Serial No. 751,680
In Germany July 14, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 14, 1963
22 Claims. (Cl. 250—27)



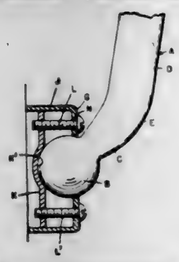
1. The combination with an electron accelerator of the type wherein the electrons are caused to be accelerated along a stabilized orbit and wherein electrons are injected into the accelerator from a source spaced radially from said orbit, of means establishing a force acting radially on the electrons along substantially the entire periphery of said orbit prior to injection of the electrons, and means for diminishing said force rapidly with time at the instant of electron injection to thereby guide the injected electrons along a spiral path into said orbit.

2,533,860
ANGULARLY ADJUSTABLE BRACKET ARM MOUNTING
Thomas C. Whitehead, Detroit, Mich., assignor to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan
Application February 2, 1948, Serial No. 5,723
9 Claims. (Cl. 248—226)



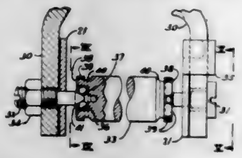
2. A bracket arm provided with a base member having a marginal flange fashioned for edge contact with and conforming generally to the contour of the surface of a member on which said arm is to be mounted, a return bent flange on said base member spaced from said marginal flange and adapted to embrace a portion of said mounting member, a clamping screw threadedly engaging said return bent flange to bear against the embraced portion of said mounting member and to secure said base member thereto, a segmental spherical socket on said base member, a spherical portion on the inner end of said arm engaging said socket to form a universal joint, and resilient friction means anchored within said base member for yieldably resisting angular movement of said arm.

2,533,861
ANGULARLY ADJUSTABLE BRACKET ARM MOUNTING
Thomas C. Whitehead, Detroit, Mich., assignor to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan
Application February 2, 1948, Serial No. 5,724
7 Claims. (Cl. 248—226)



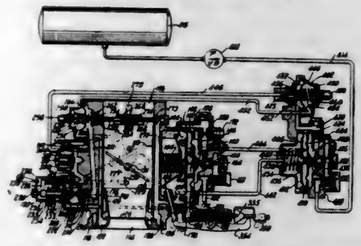
1. A bracket arm construction, comprising an arm having a spherical inner end portion, a hollow sheet metal supporting base therefor open at the rear and having extending along its opposite vertical sides respectively a laterally outwardly projecting flange and an inwardly bent flange spaced to the rear to embrace an edge portion of a member on which said arm is to be mounted, the front wall of said base member being apertured for the passage of said arm and having an annular surrounding bearing for engagement with said spherical portion, means within said hollow member for frictionally engaging said spherical portion, a clamping screw engaging a threaded aperture in said inwardly bent flange, and a thread-cutting screw engaging an aperture in said lateral flange and adapted to be forced into threaded engagement with said supporting member.

2,533,862
PENDULUM SCALE
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 19, 1946, Serial No. 655,413
1 Claim. (Cl. 265—62)



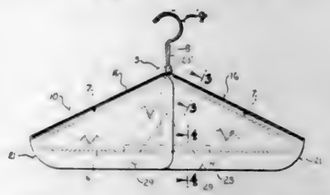
In a pendulum for a weighing scale, in combination, a pendulum assembly having a first sector to which load force is applied, a second sector that engages ribbons by which the assembly is supported and an axle-like member extending laterally of the assembly, said axle-like member having a counterbore in each end concentric with respect to the center of the second sector and having a rim extending radially from each end of the member, a plurality of bearing balls contained in each counterbore, an apertured closure for each counterbore that is held in place by fingers engaging the radially extending rim, and a yoke supported on the pendulum assembly by inwardly directed conical points that engage the bearing balls in each counterbore, said yoke serving as a connection between the pendulum and load indicating mechanism.

2,533,863
CHARGE FORMING DEVICE
Emil O. Wirth and Frederik Barfod, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 9, 1944, Serial No. 539,460
14 Claims. (Cl. 261—18)



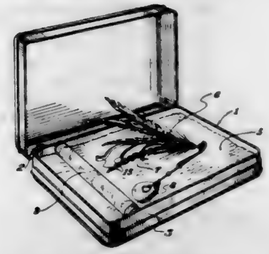
1. In a charge forming device: an air passage; a venturi in the passage; a throttle in the passage posterior to the venturi; a fuel conduit leading from a source of fuel under pressure, to the passage; area restricting fuel metering means in the conduit; an inlet valve and an outlet valve in the conduit respectively anterior and posterior to the said means; means for controlling the inlet valve to regulate the unmetered fuel pressure and including a pair of diaphragms subjected to air pressure from the venturi and air passage anterior to the throttle; means for controlling the outlet valve to regulate the metered fuel pressure and including a diaphragm subjected to air pressure from the venturi and to only metered fuel pressure; means for supplying an auxiliary fluid to the air passage comprising a conduit leading from a source of fluid under pressure to the passage posterior to the throttle; area restricting fluid metering means in the conduit; an inlet valve and an outlet valve in the conduit respectively anterior and posterior to the said last-mentioned means; means for controlling the inlet valve to regulate the unmetered fluid pressure including a pair of diaphragms subjected to air pressure from the venturi and air passage anterior to the throttle; and means for controlling the outlet valve to regulate the metered fluid pressure and including a diaphragm subjected to air pressure from the venturi; and means for controlling the auxiliary fluid being so constructed and arranged as to supply auxiliary fluid throughout substantially the entire engine operating range.

2,533,864
GARMENT HANGER COVER
Maurice G. Wordingham, Milwaukee, Wis., assignor to Phoenix Products Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 2, 1949, Serial No. 130,709
7 Claims. (Cl. 223—98)



2. A cover for a wire garment hanger of the type having a triangular garment supporting portion defined by downwardly divergent arms connected by a horizontal cross bar, and a hook at the junction of the arms, said cover comprising: a blank of pliable sheet material providing a substantially triangular body section larger than the garment supporting portion of the hanger, and a pair of flaps integral with the body section and extending upwardly therefrom, one on each side of the vertical center line of the body section, each flap being foldable over one of the downwardly divergent arms of the hanger into superimposed relation with the adjacent portion of the body section, said flaps being of a size such that the outer portions thereof can be disposed over the lower portion of the body section below the cross bar of the hanger while the junctions of the flaps and body section loosely embrace the divergent arms of the hanger to provide rounded shoulder supporting portions; and means for flatwise securing the outer portion of each flap to the underlying portion of the blank at an area above the cross bar of the hanger but closely adjacent thereto so that said securement of the flaps may be effected without creasing the junctions of the flaps and body section which loosely embrace the downwardly divergent arms of the hanger.

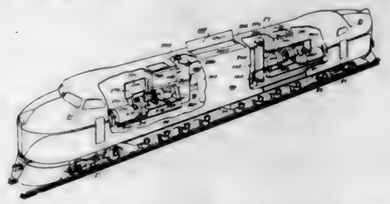
2,533,865
FLY FISHING KIT
Morgan D. Wynne, Sr., and Tillet H. Wynne, Jr., Griffin, Ga.
Application June 7, 1946, Serial No. 675,164
2 Claims. (Cl. 43—57.5)



1. Kit for fishing flies comprising a flat box having resilient yielding opposite parallel sides, a removable fleece mat freely resting upon the bottom of said box, for engagement by the hooks of flies, and a cylindrical vial having a cork in at least one end, arranged crosswise within said box resting against said fleece, the ends of said vial being under pressure of said resilient sides whereby said vial is retained in position with its cork retained in place, and in turn keeps said fleece mat in position.

2,533,866
GENERATING ELECTRIC LOCOMOTIVE WITH COAL-FIRED GAS TURBINE
John I. Yellott, Cockeysville, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C., a corporation of Delaware
Original application August 17, 1946, Serial No. 691,307. Divided and this application May 13, 1948, Serial No. 26,744
12 Claims. (Cl. 105—36)

1. A generating electric locomotive, comprising a generator assembly and driving motors electrically coupled to the generators, a gas turbine coupled to and driving the generator assembly, means for generating motive fluid for the gas turbine comprising a combustor, a fuel line feeding a pressurized streaming entrainment of pulverized solid particles to the combustor, means for pulverizing solid particles of fuel, means for feeding crushed solids to the fuel line including a storage chamber and a high pressure air pickup line connecting the chamber and



the fuel line; crusher means feeding crushed solids to the storage chamber, storage means for the solid fuel to be crushed comprising at least one closed bunker in the locomotive, and closure means for the bunker.

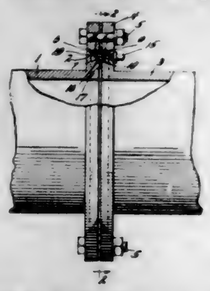
2,533,867
MIRROR SUPPORTING MEANS
Fred W. Zink, Detroit, Mich., assignor to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan
Application April 15, 1946, Serial No. 662,194
3 Claims. (Cl. 248—276)

1. A support for a rear view mirror adapted for use with a vehicle body door hinge having an upright pivot pin spaced outwardly from said vehicle body and two relatively movable hinge leaves mounted on said pivot pin and respectively attachable to a fixed pillar and to a swinging door of said vehicle body; comprising a substantially U-shaped bracket opening toward said vehicle body and provided outwardly of the base of the U with means for holding a supporting arm for a rear view mirror, the ears of said U being above and below and normally extending lengthwise of said hinge leaves, said ears terminating short of said vehicle body whereby said bracket is entirely free and out of contact with said vehicle body and is capable of movement relative thereto, said ears having vertically aligned holes receiving said pivot pin, and means fastening said bracket to the hinge leaf attachable to said door including a relatively narrow projection on one of said ears terminating in a U-shaped portion for embracing the door leaf whereby said bracket will move with said door relative to said vehicle body when said door is opened with respect thereto.

2,533,868
PRESSURE SEAL FOR FLANGED PIPES
Eric Anderson, Trenton, N. J., assignor of one-half to Wendell H. Norris, Trenton, N. J.
Application November 30, 1949, Serial No. 130,261
3 Claims. (Cl. 285—109)

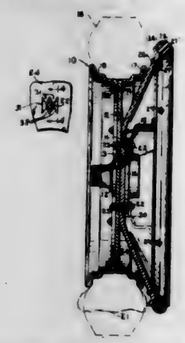
1. In a pressure seal for coupled pipes, each pipe having a circular flat face flange, said flanges each having an annular groove formed in its face and the grooves forming a chamber delta shaped in cross-section when the flanges are coupled, the delta shaped chamber adapted to receive a viscous sealing compound; two an-

nular sealing rings fitting within the delta, one of which is substantially Y-shaped and the



other of which is T-shaped, and a part of each ring extending beyond the delta and between the two circular coupled flanges.

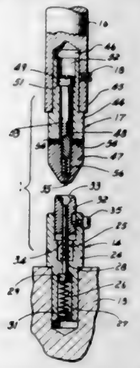
2,533,869
RELIEF WHEEL FOR AUTOMOTIVE VEHICLES
Irving Barfus, Brooklyn, N. Y.
Application January 29, 1949, Serial No. 73,600
3 Claims. (Cl. 301—38)



1. The combination with a primary wheel of a vehicle of a reserve wheel of less diameter than the primary wheel, means for securing the reserve wheel to the primary wheel for rotation therewith, comprising sheet-like inner annular portions on each of the wheels which are in facial contact with each other, said annular portions being formed with spaced sets of aligned apertures, bolts having their shank portions passing through said sets of aligned apertures for having nuts threaded thereon to draw said annular portions into tight facial contact, and oppositely disposed pairs of projections formed on the material of said annular portion of the reserve wheel defining the apertures of the reserve wheel, the projections of each pair of projections being oppositely canted to be compressed for gripping the shank portions of said bolts after the nuts have been partially tightened into position for holding the bolts against rotating while the nuts are being completely tightened into position against the adjacent face of the adjacent annular portion.

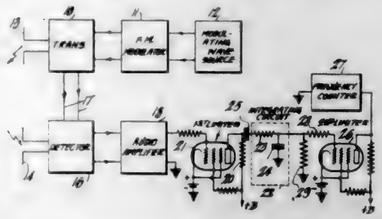
2,533,870
STONE SETTING TOOL
William F. Bayer, Leonia, N. J.
Application December 22, 1948, Serial No. 66,771
3 Claims. (Cl. 81—7)

1. A stone setting tool arrangement comprising a stone receiving die, said die having a main part with openings in the opposite ends thereof, a sleeve adjustable in the top opening, a stop for limiting the outward movement of the sleeve, a spring for urging the sleeve against the stop, said sleeve having a cup-shaped recess for receiving a stone, a pin extending through the main part and through the sleeve for the purpose of projecting the stone into the stone setting on the jewelry piece, a spring in the bottom opening urg-



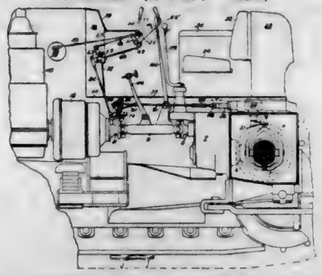
ing the pin upwardly to project the stone into the stone setting while the sleeve is permitted to be retracted, and a punch member adapted to engage the stone setting from the side thereof reversed from that in which the stone is to be set, said pin serving to elevate the stone into the stone setting and leave room for the prongs of the stone setting to be guided about the sides of the stone when the punch and die are brought together upon the stone setting and upon the stone.

2,533,871
RADIO DISTANCE MEASURING SYSTEM
Daniel Blitz, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 16, 1944, Serial No. 540,654
9 Claims. (Cl. 343—14)



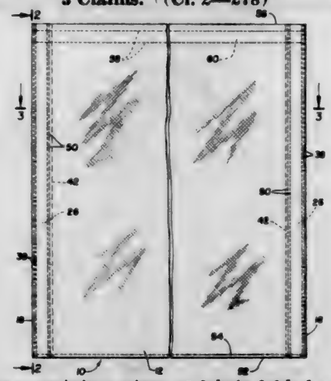
4. In a frequency-modulated distance measuring system wherein a signal having a beat frequency representative of the distance to a reflecting object is produced, the method of reducing the effects of interfering signals which comprises clipping said beat frequency signal to produce a square wave, integrating said square wave to produce a triangular wave, and clipping said triangular wave to produce a second square wave whereby the frequency of said second square wave may be determined substantially independently of any effects of said interfering signals so that said distance is determined.

2,533,872
TRACTOR CONTROL MECHANISM
Alfred C. Boock and Douglas W. Erskine, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 16, 1948, Serial No. 21,397
11 Claims. (Cl. 180—6.62)



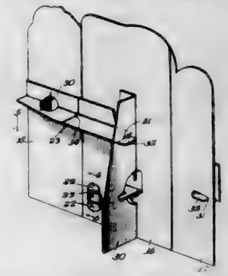
1. In a tractor having propelling means operable to effect either straight course driving or turning, and a pair of manually operable control levers for said propelling means mounted in front of a driver's seat for back and forth movement between straight course driving and vehicle turning positions, the combination of a fore and aft extending support mounted in forwardly spaced and elevated relation to said seat to afford an unobstructed leg space of predetermined length and height below said support and forwardly of said seat, means mounting said control levers on a rearward portion of said support for movement relative thereto so that the handle ends of said levers are located forwardly of and in elevated relation to said seat when said levers are in said straight course driving positions and also when said levers are in said vehicle turning positions, and mechanical operating connections between said control levers, respectively, and a pair of control elements for said propelling means located below said seat, said operating connections being constructed, mounted and arranged so as to clear said leg space, and so as to move said control elements back and forth between inoperative and operative positions thereof by said back and forth movements of said control levers.

2,533,873
CURTAIN
Walter S. Brandvein, Waterbury, Conn.
Application March 23, 1949, Serial No. 82,961
3 Claims. (Cl. 2—278)



1. In a curtain a piece of fabric folded on itself along each of a pair of opposite sides to obtain a body portion and a pair of overlying portions, the fold line of the body portion and each overlying portion constituting a corresponding side edge of the curtain, each overlying portion having a part folded with respect to the remainder thereof and disposed intermediate said remainder and the body portion, and a pair of strips of fabric coextensive in length with the overlying portions and disposed to the same side of the curtain as the overlying portions, each strip having a double fold along each longitudinal side, one of the double folds of each strip abutting and secured to a corresponding overlying portion and the other double fold abutting and secured to the body only.

2,533,874
FOLDING DISPLAY
Ned Burr, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a corporation of Illinois
Application July 9, 1945, Serial No. 603,833
5 Claims. (Cl. 40—152.1)

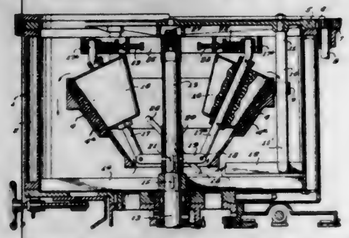


5. In a folding display, a plurality of panels hinged together, a display piece rotatably connected to one of the panels and movable from within the area of this panel when folded to a position across the hinge line between it and an adjacent panel when the display is extended, a releasable connection between the free end of the display piece and the second panel, a foldable easel at the back of one panel and a foldable easel locking construction secured to the back of the adjacent hinged panel having a portion to extend across the hinge between it and the easel supporting panel to engage the easel thereof in distended position, the engagement of the easels holding their panel sections together in fixed straight line relation.

2,533,875
INTERMEDIATE-PULVERIZING AND MIXING MACHINE FOR CHOCOLATE MASSES
Emilio Cavalieri, Milan, Italy, assignor to S. A. Macchine per l'Industria Dolciaria Carle & Montanari, Milan, Italy
Application March 6, 1947, Serial No. 732,894
In Italy September 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 27, 1965
9 Claims. (Cl. 241—66)

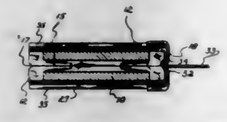
7. A pulverizing and mixing machine for the manufacture of chocolate and the like, comprising in combination a stationary outer tank of substantially cylindrical shape; a revolvable inner tank of inverted frusto-conical shape, the said tank having an open bottom and an open top and side walls spaced from the walls of said outer tank; a first drive shaft; means operatively connecting said inner tank with said drive shaft for

rotation thereby; a second drive shaft; support means rigidly connected to said second drive shaft; roller means arranged in said tank and pivoted to said support means so as to be mov-



able outwards and against said side walls of the inner tank; and means for stirring and loosening the mass contained in said outer tank and passing it into said inner tank through said open bottom, the latter means being operatively connected to said second drive shaft.

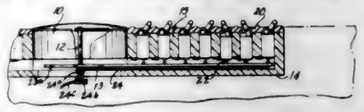
2,533,876
ELECTRICAL RESISTOR CONSTRUCTION
Joseph J. Cerny, Chicago, Ill.
Application July 15, 1948, Serial No. 38,867
9 Claims. (Cl. 201—67)



1. In a resistor for electrical circuits and the like, a non-conductive core having an opening in each end thereof; an insertable metal terminal end member mounted on each end of said core, each of said terminal end members comprising a shank and a body portion integral therewith, the outer ends of said body portions extending radially substantially to the projection of the curved plane of said core, and said body portion having an integral portion of said body portion bent substantially perpendicularly thereto, said body portion and said shank being bent along the longitudinal axis thereof so that a tapered angle is formed along said axis of said shank, the innermost portion of said shank normally being in non-abutment with said core, the remainder of said shank normally frictionally abutting in each of said core openings; each of said body portions having a hole therein at the center thereof; a resistance wire spirally wound around said core and each of said end members; a metal end cap electrically connected to and substantially enveloping each of said terminal end members, said end cap having an integrally formed inwardly extending flange, said flange passing through said hole in said terminal end member, and a connecting circuit wire secured to each of said end caps.

2,533,877
RADIO TIME TUNING DEVICE
Anthony Chikan, New York, N. Y.
Application April 1, 1946, Serial No. 658,613
1 Claim. (Cl. 161—1)

A radio time tuning device adapted for use in association with a radio receiver having push button tuners for a plurality of stations and comprising a time clock having a dial, a circular block disposed therearound, said block having a plurality of rows of radially disposed bores therein and disposed at suitable time intervals around the dial, a spring retracted non-metallic plunger slidably positioned in each said bore, a manually operable cam lever accessible from the top of the block and pivoted in each bore in a position to depress its corresponding plunger against the tension of its spring, and to hold the plunger in said position until manually released, an electric contact element on the lower face of each plunger, the forward side of said contact being beveled as a cam and its rearward side being



sharply offset to provide for a quick electrical circuit break, an electrical conductor connected to said electric contact element and also connected to one of the solenoids corresponding to a particular station, an arm rotated beneath said circular block by the clock mechanism, contact pieces of flexible metal on said arm adapted to contact with the lower faces of such plungers as have been depressed by the cam levers to close a circuit, a solenoid in said circuit and armatures actuated by the solenoids to depress selected station push buttons at preselected times.

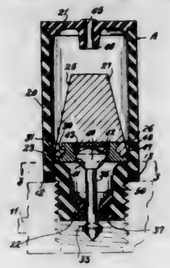
2,533,878
METHOD OF PUMPING VISCOUS PETROLEUM
Albert F. Clark, Los Angeles, and Abraham Shapiro, Monrovia, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 31, 1949, Serial No. 96,392
4 Claims. (Cl. 137—78)

1. In the transportation of viscous petroleum by pipe line, the improvement comprising: introducing into said pipe line with said petroleum at least 8% by volume with respect to the total liquid of water containing in solution a wetting agent and an alkali-metal phosphate and having a hydrogen-ion concentration between pH 5.7 and pH 7.0.

2,533,879
BATHING CAP
Tigellia Cisco Di Giovanna, Brooklyn, N. Y.
Application February 16, 1950, Serial No. 144,496
1 Claim. (Cl. 2—68)

A bathing cap comprising a molded rubber form having a turned in band portion integral therewith, said cap being of stretchable material and of such shape as to allow space between the hair of the wearer to prevent the hair from being flattened, tab portions integrally formed on the inner edge of the band and lying directly opposite each other and a stretchable chin strap connected to said tab portions.

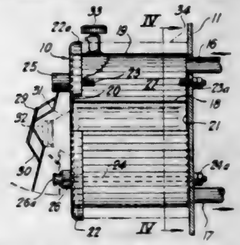
2,533,880
BATTERY NONSPILL VENT PLUG
William F. Donkin, Cleveland Heights, and Carl F. Oestermeyer, Shaker Heights, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application January 11, 1946, Serial No. 640,398
2 Claims. (Cl. 137—139)



1. In a device of the character referred to, the combination of a body having a passage therethrough and a shoulder intermediate the ends of said passage, a weight in said passage comprising a metal part and an annular base member formed of non-metallic material fixedly secured to said part and adapted to rest upon said shoulder, said base member having a portion thereof provided with an undercut boss part embedded in said metal part of said weight, the open side of the under cut part of said base member facing outwardly with respect to said metal part and said metal part embracing said base member adjacent to and extending into said undercut portion whereby shrinkage of the metal tends to draw metal into the undercut part, said passage adjacent to said base member being generally circular and of slightly greater diameter than the diameter of said base member and the clearance between the side walls of said passage adjacent to said weight and said weight being greater above said base member than adjacent to said base member, said body having a valve seat located to the side of said shoulder opposite said weight, a valve adapted to move toward and from said shoulder into and out of engagement with said valve seat for closing and opening said passage through said body, and means operatively connecting said weight and said valve whereby said valve is moved toward and from said valve seat upon said weight rocking on said shoulder incident to tilting of said body.

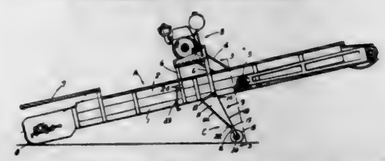
2,533,881
HEATER
John C. M. Duff, Springfield Gardens, N. Y., assignor of one-half to James Davie, Long Island City, N. Y.
Application January 29, 1948, Serial No. 5,077
4 Claims. (Cl. 126—19.5)

1. A heater structure of the class described comprising a central horizontal tubular receptacle, an outer casing of greater height than width spaced from and enclosing said receptacle on all but a front end thereof, said casing having a rear wall attached in a water-tight relationship to the rear end of said receptacle, said casing having an apertured front wall, enlarged water chambers formed within said casing by said receptacle above and below the same with restricted passages on each lateral side of said receptacle, hot water inlet and outlet connections passing through said rear wall into said respective water chambers in a diametrically opposed relationship on opposite side of and above and below said central receptacle arranged for the positive circulation without the necessity of baffling of the hot water from said inlet into said upper chamber through both said restricted passages around said receptacle into said lower chamber to said outlet connection, a supporting



wall apertured for said inlet and outlet connections, an apertured cover member having an aperture coincident with the front open end of said receptacle and fastening means extending through said cover member and said supporting wall for clampingly retaining said casing and receptacle therebetween in an operative position against said supporting wall.

2,533,882
SWINGABLE PROP FOR CONVEYERS
Earl H. Ensinger, Cleveland, Ohio
Application August 2, 1946, Serial No. 687,883
5 Claims. (Cl. 198—233)

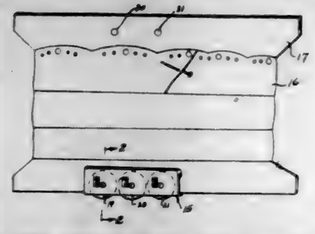


1. In a portable materials handling conveyor unit of the class described, in combination, a conveyor including a frame, a prop swingably mounted on the frame for free swinging movement below the frame in either direction toward either of the opposite ends of the frame, engaging means on the prop to engage the frame at one point to hold the prop in upright condition for supporting the frame in elevated position and to engage the frame at another point when the prop is swung toward the other end of the frame for supporting the frame in a lowered position, and wheels on the free end of the prop to support the frame in either raised or lowered position.

2,533,883
INVENTORY INDICATOR
Abe Gelb, New Rochelle, N. Y.
Application April 13, 1948, Serial No. 20,735
2 Claims. (Cl. 116—133)

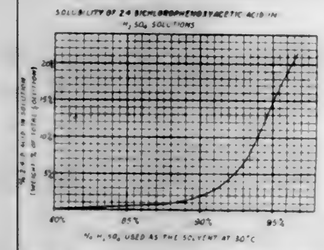
1. In a device of the character described, to be mounted on a board, comprising a body member of springy sheet material bent into at least a first ply and a second ply to form a U-clamp adapted to grip the board and at least one disc having numerical notations thereon, positioned between the plies of said clamp, spaced from the first ply, flat against the second of said plies and rotatably mounted on the body member, whereupon insertion of said board between the plies of the clamp formed and between said disc

and the first ply of the body member, said board will be gripped thereby and will frictionally contact said disc, holding same against accidental



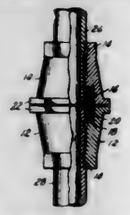
rotation with respect to the body member; one of the plies of the body member being provided with an opening through which indicia on the disc is exposed to view.

2,533,884
2,4-DICHLOROPHENOXYACETIC ACID COMPOSITIONS
Everett E. Gilbert, New York, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application February 1, 1949, Serial No. 73,996
8 Claims. (Cl. 71—2.4)



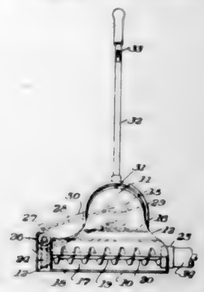
1. A liquid composition of matter comprising 2,4-dichlorophenoxyacetic acid as solute in solution in strong sulfuric acid as solvent, said solvent having an H_2SO_4 strength not less than about 85% by weight, the concentration of said solute being not less than about 0.5% by weight based on said solute plus solvent.

2,533,885
COUPLING
Thomas A. Hill, West Orange, N. J., assignor, by mesne assignments, to Elastic Stop Nut Corporation of America, Union, N. J., a corporation of New Jersey
Original application March 7, 1944, Serial No. 525,409. Divided and this application January 10, 1945, Serial No. 572,242
4 Claims. (Cl. 285—154)



1. A threaded coupling comprising a pair of hollow members each having differential bore portions extending inwardly from opposite ends of the member and separated by a shoulder, the smaller bore portion of each member being screw-threaded, means for securing said members together with their larger bore portions in contiguous alignment, and locking means of elastic deformable material retained within said larger bore portions and providing a bore dimensioned to have threads impressed in the elastic material by the threads of externally threaded elements screwed through the smaller bore portions of said hollow member, whereby to elastically grip said elements to prevent their turning relative to said hollow members.

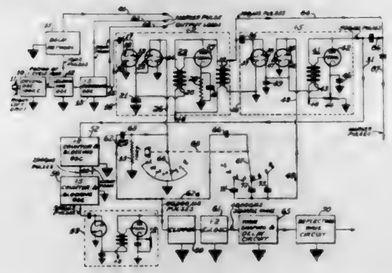
2,533,886
COAL HEAVER
Harry C. Hill, Pittsburgh, Pa.
Application September 8, 1949, Serial No. 114,655
4 Claims. (Cl. 198—7)



3. An implement, for the purposes described, comprising a housing provided with a horizontally elongated gateway in its front wall and a floor extending forwardly beyond the gateway to form a scoop to admit fuel to the housing as the implement is pushed forwardly into a mass of solid fuel, a screw conveyor section rotatably mounted in the housing in the rear of said gateway and to which the fuel is fed by the advance of the implement, a port in one end wall of the housing through which the fuel is fed by the rotation of the conveyor section, a flexible tube having its intake end connected to said port to receive fuel fed by the conveyor section, and a plurality of aligned screw conveyor sections in said housing and operatively connected to the first mentioned conveyor section to rotate in unison therewith and cause the fuel to travel along the flexible tube to the delivery end thereof.

2,533,887
STATION SELECTION APPARATUS FOR LORAN RECEIVERS
George D. Hulst, Jr., Upper Montclair, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 28, 1946, Serial No. 700,139
5 Claims. (Cl. 250—27)

1. A generator for producing periodically recurring electrical pulses, said generator comprising a comparatively high frequency oscillator and a chain of frequency dividers connected to receive signal from said oscillator, two of said dividers including count subtracting means for causing the divider to lose a predetermined number of repetition period counts upon the application of an electrical pulse thereto, a connection including a switch in series therewith for selectively applying electrical pulses from the output of said divider chain through said switch to the count subtracting means of one of said two dividers, a connection and a switch in shunt therewith for selectively applying electrical pulses from the output of said divider chain to the count subtracting means of the other of said two dividers, said shunt switch having certain contact points that are grounded and other contact points that are not grounded whereby pulses are fed back to said other divider only when said shunt switch is on an ungrounded contact point.

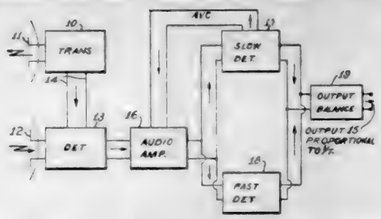


2,533,888
CLEANING OR LAUNDRY MACHINE
Leo M. Kahn, New York, N. Y.
Application December 23, 1943, Serial No. 515,356
6 Claims. (Cl. 68—12)

6. In a cleaning machine having a cylinder rotatable in a bearing arranged at one end of the cylinder, said cylinder being operated at a low speed for a cleaning operation and at a relatively higher speed for a centrifugal drying operation, a member normally disposed at the other end of the cylinder for the cleaning operation, and fluid operated means for automatically moving the member toward the bearing end for the centrifugal drying operation.

2,533,889
METHOD AND APPARATUS FOR DETERMINING TIME FROM TARGET BY SIGNAL REFLECTION
Eugene O. Keizer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1946, Serial No. 713,310
11 Claims. (Cl. 343—7)

1. The method of determining the time required for two relatively moving objects to meet where their speed of approach is constant which comprises continuously radiating a radio wave from one of said objects toward the other object whereby said wave is reflected back to said one



object with a field strength E at said one object, and deriving at said one object the value

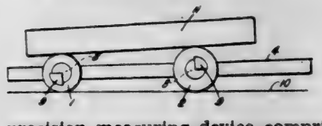
$$\frac{\frac{dE}{dt}}{E}$$

whereby the value

$$\frac{1}{T}$$

is determined where T is the time required for said objects to meet.

2,533,890
DEVICE FOR MEASURING ANGLES AND OTHER DIMENSIONS
William John King, Brighton, England
Application May 31, 1946, Serial No. 673,435
In Great Britain May 11, 1945
2 Claims. (Cl. 33—174)



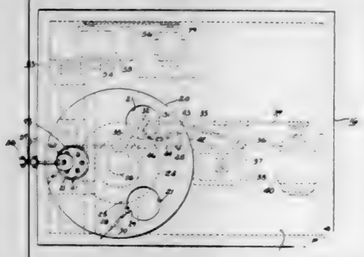
1. A precision measuring device comprising a pair of measuring cylinders of known diameter the peripheral surfaces of which are adapted to engage the work piece in a measuring operation, each of said cylinders having a diametral slot, a straight bar fitted in the slots of the cylinders and along which the cylinders are adapted to be slid for engaging the work piece, a clamping means for clamping the cylinders in position on the bar for effecting a measuring operation on the work piece, and a quadrant block projecting from the face of each cylinder with its axial edge coincident with the axis of the cylinder, said quadrant blocks being on the same side of the device whereby the distance between the centers of the cylinders may be readily determined.

2,533,891
DRESS TRIM
La Zona McClintock, Enid, Okla.
Application September 27, 1947, Serial No. 776,595
1 Claim. (Cl. 2—278)

A new article of manufacture comprising a pair of flat ribbons, each of said ribbons being zig-zagged laterally forming alternate portions extended at angles of 90 degrees with relation to each other forming alternate reentrant recesses along opposite sides of each ribbon, said

ribbons being interlaced to form a flat composite ribbon with the recesses extended inward from opposite sides of the ribbons interengaged and the portions of the ribbons which extend in opposite directions flatwisely passing alternately over and under one another.

2,533,892
CHIPPING MACHINE
Robert Hugh Nile and Michael S. Roberts, Wellsville, Ohio, assignors to The Sterling China Company
Application May 13, 1949, Serial No. 93,105
15 Claims. (Cl. 125—9)



1. A machine for removing pin fragments or the like from chinaware dishes concave, comprising in combination a supporting structure, a revoluble body carried by the said structure, a plurality of reciprocal members carried by said body and aligned substantially parallel to the axis of said body, said reciprocal members being spaced at a plurality of radial distances from the axis of said body, resilient means for resiliently urging said reciprocal members in one direction, a chipping blade carried by each said reciprocal member, a first engaging member positioned in axial alignment with said body, said engaging member being adapted to engage within the concavity of and on one side of a said dish, a second engaging member adapted to engage the opposite side of said dish, operating means for moving one said engaging member toward and away from the other said engaging member for the clamping of a dish therebetween and the releasing of said dish, said first engaging member in clamping position being within the concavity of said dish and in releasing position being removed from the concavity of said dish to clear the same, conveyor means movable between said engaging members while in releasing position and transverse to the line of relative movement between said engaging members for moving consecutive dishes to a position between said engaging members and away from said position during separating of said engaging members and clearance of the dish by said first engaging member, driving means for revolving said body to revolve said reciprocal members and blades relative to the axis of said body, and means for synchronizing the operation of said operating means and said conveyor means to provide movement of the conveyor means during separation of the engaging members, the arrangement being such that upon a dish being moved by said conveyor means to between said engaging members and clamped therebetween, the said blades carried on said reciprocal members, urged in said one direction by said resilient means, and revolved by said body, slide around on, and in close engagement with, a side of said clamped dish and upon meeting said pin fragments chip the same from the dish.

2,533,893
BEAUTICIAN'S TRAY
William Nussbaum, New York, N. Y.
Application December 22, 1947, Serial No. 793,082
1 Claim. (Cl. 155—188)

In an attachment for a beauty parlar chair having a rod vertically adjustably mounted on the chair and a tray, means for adjustably mounting the tray on the upper end of the rod, comprising a bifurcated head mounted on the upper end of said rod, a ratchet wheel carried by the tray and pivotally mounted between the arms of said bifurcated head, and resiliently biased means carried by the rod and engaging the teeth of said ratchet wheel for holding said ratchet wheel and in turn the tray in a desired pivoted position relative to the rod and said bifurcated head, said resilient means comprising a collar slidable but non-rotatively mounted on the rod, said collar having a finger projected along one side of the rod to have its free end engage the teeth of said ratchet wheel, and an expansion spring sleeving the rod and operating between said collar and a fixed collar on the rod urging said slidable collar toward said bifurcated head to engage the free end of said finger with the teeth of said ratchet wheel.

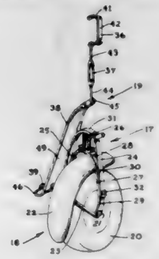
2,533,894
TURNBUCKLE OR THE LIKE
Howard I. Podell, Princeton, N. J.
Application January 16, 1946, Serial No. 641,486
6 Claims. (Cl. 287—60)

1. In a device of the class described, the combination of a pair of members threadedly secured together and adapted to be screwed along each other, one of said threaded members having a recess therein, and a non-metallic insert member in said recess having a substantially longitudinally convex upper surface projecting above the edges of the recess prior to screwing said threaded members along each other and over the insert member but adapted to be cut into by a thread upon screwing them along each other, the cutting into said insert by a thread resulting in a gripping action which minimizes unintentional disengagement of the threaded members.

2,533,895
WHEELED ATTACHMENT FOR BOATS
Marcel Raveau, Lindenhurst, N. Y.
Application August 2, 1946, Serial No. 688,099
4 Claims. (Cl. 280—61)

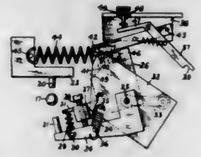
1. In a boat mounting device having a plate for releasable attachment on the side of a boat, means for resiliently mounting a wheel on the plate, comprising a wheel having an axle extended from either side thereof, an inverted inner U-shaped member having an arcuate intermediate arm disposed above said wheel and legs extended downward on opposite sides of said wheel, said legs continuing at their bottom ends into rearwardly and downwardly curved portions

having their free ends turnably connected to the extended ends of said axle, an inverted outer U-shaped member disposed over said inner U-shaped member with its arcuate intermediate arm disposed above and spaced from the intermediate arm of said inner U-shaped member and its legs depended downward along the outer faces of the legs of said inner U-shaped member, said legs of said outer U-shaped member having their free bottom ends pivotally connected to the legs of said inner U-shaped member slightly above the



curved portions of the legs of said inner U-shaped member, said outer U-shaped member having one of its legs fixedly attached to said plate so that downward thrusts applied to said plate will be transferred to said outer U-shaped member and cause said inner U-shaped member to be pivoted forward about its pivotal connection with said axle, and resilient means between the spaced intermediate arms of said U-shaped members for retaining said U-shaped members engaged one within the other.

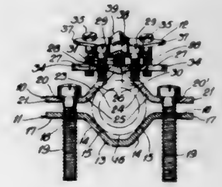
2,533,896
BALL RELEASE MECHANISM FOR MEASURING INSTRUMENTS
John Lionel Rawlings, Elmont, N. Y., assignor to Kollmorgen Optical Corporation, Brooklyn, N. Y., a corporation of New York
Application November 26, 1948, Serial No. 62,095
10 Claims. (Cl. 33—206)



7. A ball release mechanism comprising a fixed upper anvil and a lower anvil movable toward said upper anvil to clamp a ball therebetween and away from said upper anvil to release said ball for vertical fall, resilient means urging said lower anvil toward said upper anvil with strong pressure, and separate resiliently urged means for reducing said pressure to substantially zero, without substantially moving said lower anvil, and immediately thereafter moving said lower anvil away from said upper anvil to release said ball.

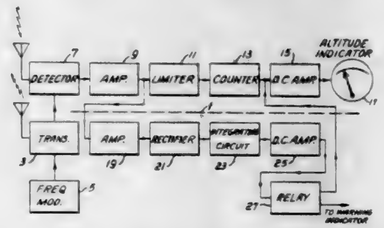
2,533,897
GROUND CLAMP
Morris D. Reddock, Brooklyn, N. Y.
Application May 10, 1946, Serial No. 668,831
1 Claim. (Cl. 173—273)

In a ground-wire fitting comprising two body members substantially V-shaped in cross-section, each member having two flanges, releasable means for securing said members in unitary relation, said members being assembled with said V-shaped portions facing in opposite directions and being movable to or away from each other to permit mounting said members upon a pipe of large or small diameter, one of said V-shaped members having a flanged extension and an elongated notch extending throughout the



height of said member, a cap having a large recess and a small notch, said recess and notch being longitudinally aligned and laterally offset from each other, and means for aligning said cap recess and notch with said notch in said V-shaped member and to cause said cap to clamp an electric cable and its bare wire to said notched V-shaped member simultaneously and in a single straight line.

2,533,898
RADIO DISTANCE MEASURING SYSTEM
David H. Robinson, Llanerch, Pa., and Ted E. Dunn, Pennsauken, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 2, 1948, Serial No. 30,604
4 Claims. (Cl. 343—12)



3. In a radio distance measuring system including means transmitting signals to an object whose distance is to be measured, means receiving said signals after reflection by said object, means comparing said received signals with said transmitted signals to produce a further signal which corresponds to said distance, limiter means to prevent said further signal from exceeding a predetermined amplitude, and indicator means responsive to said amplitude limited signal to indicate said distance: apparatus for preventing false indications by said system in response to received signals of insufficient strength to operate said limiter, including means responsive to said further signal to provide a control voltage whose amplitude corresponds to that of said received signals, and means to produce an indication in response to said control voltage being below a predetermined value.

2,533,899

METHOD OF PRODUCING VESICULAR MOLDED PRODUCTS FROM BURNT CLAYS, SHALES, OR SIMILAR ARGILLACEOUS MATERIAL

Arthur Ryner, London, England, assignor to American Aggregate Company, Kansas City, Mo., a corporation of Missouri

No Drawing. Application March 25, 1946, Serial No. 657,058. In Great Britain January 26, 1945
6 Claims. (Cl. 25—156)

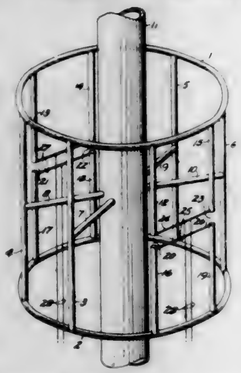
1. The process of making molded articles from raw argillaceous material which consists in heating the material to a temperature below the temperature at which vesiculation and expansion of said material occurs; placing the heated material in a mold; and thereafter heating the material to an expanded condition, said mold being made from a pre-baked clay material which does not expand at the temperature of said last mentioned heating step whereby to present a composite article including the mold.

2,533,900

ANTENNA

John P. Shanklin, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application September 9, 1949, Serial No. 114,781
5 Claims. (Cl. 250—33)



1. An antenna, comprising a pair of end rings, a first antenna leg bridged across said rings, a pair of other antenna legs extending towards each other from respective rings and having a gap between their adjacent ends, said first antenna leg forming with said other antenna legs and with the intervening portions of said rings a folded dipole, a second antenna leg bridged across said rings, an additional pair of other antenna legs extending towards each other from respective rings and having a gap between their adjacent ends, and transmission line means connected to said adjacent ends of both said pairs of other antenna legs.

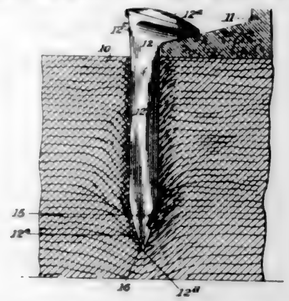
2,533,901

RAILROAD SPIKE

Charles L. Sharp, Palmyra, N. J.

Application November 27, 1946, Serial No. 712,684
1 Claim. (Cl. 85—21)

A railroad spike of usual type and shape having the usual head for engagement with the flange of a rail and a rectangular shank portion of uniform dimensions depending therefrom in a single plane substantially square in cross section and terminating in a definitely defined and substantially wedge-shaped end with a chisel edge point; one of the tapering wall surfaces of said wedge-shaped end being provided with a single notch of elongated character and having wall surfaces of



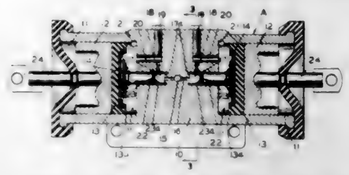
different areal extent disposed substantially at right angles to each other and the lower wall surface of said notch sloping outwardly from the body portion of the tapered end; said single notch being formed wholly within the boundaries of one face of said tapered end.

2,533,902

WHEEL CYLINDER FOR HYDRAULIC BRAKES

Sylvan H. Sime, Kiester, Minn.

Application April 28, 1947, Serial No. 744,288
7 Claims. (Cl. 60—54.6)



1. A fluid operated system for projecting a normally retracted projectable element against an element adapted to cooperate therewith, comprising a fluid confining cylinder, an actuating piston working within said cylinder and adapted to be connected to a projectable element, means defining a passage for connecting said cylinder with a controlled source of fluid under pressure, a fluid displacing element projectable into said cylinder when subjected to fluid pressure from said source to displace a substantially predetermined volume of fluid in said cylinder, and a valve element operative in said passage to normally close the same but opening when more than said predetermined volume of fluid has been displaced, whereby a predetermined actuating stroke of said actuating piston and spaced relation between the projectable element in normal position and the element adapted to cooperate are maintained.

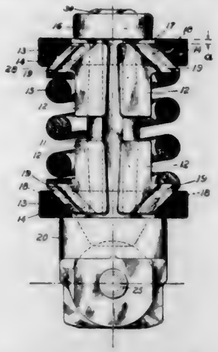
2,533,903

DRAFT RIGGING

Hubert L. Spence and William J. Metzger, East Cleveland, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application October 18, 1946, Serial No. 704,188
12 Claims. (Cl. 213—36)

1. A railway draft gear comprising a friction stem, friction shoes for engagement with the friction stem, a follower wedge for engagement with the friction shoes to wedge them against the friction stem, and spring means for opposing movement of the shoes along the friction stem, the friction stem having means for limiting movement of the shoes in one direction, the



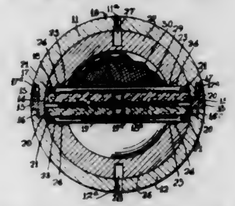
follower wedge being constructed and arranged to pass over the end of the friction stem during assembly therewith, and the follower wedge and friction shoes having interlocking means which cooperate with said limiting means to hold the follower wedge in assembled relationship with the friction stem and friction shoes.

2,533,904

COMBINATION GAME

Rose Urban, New York, N. Y.

Application October 9, 1947, Serial No. 778,825
5 Claims. (Cl. 273—58)



1. In a game device, a hollow ball formed of an opposed pair of substantially hollow semi-spherical ball portions, a coupling ring interposed between said ball portions separably joining them together, a ring for a net supported between an undercut portion of one of said ball portions and the adjacent side of said coupling ring, opposed cups within said ball portions, said cups being formed on their outer sides opposed to their open sides with centrally located slots, whereby when said ball portions are separated from said coupling ring one of said cups can be removed and rested on a flat surface with its slot uppermost to receive a peripheral edge portion of said latter-mentioned ring to support the same in a vertical plane.

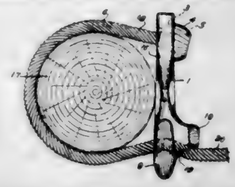
2,533,905

CHOKER HOOK AND LINE

John Aconley, Forestville, Quebec, Canada, assignor to Anglo-Canadian Pulp and Paper Mills Limited, Quebec, Quebec, Canada, a corporation of Quebec, Canada

Application June 11, 1949, Serial No. 98,564
2 Claims. (Cl. 294—74)

1. A choker hook of unitary structure and comprising a shank, means forming an eye at one end of the shank, a hook portion at the other end of the shank having a pair of spaced arms for reception of a cable therebetween and a web connecting the lower ends of the arms, a lug carried by the shank and extending laterally from one face thereof, said lug completely bridging the



space between said arms and being laterally spaced from said arms, the lower edge of said lug being disposed in a plane lying below the major portions of said arms, the opposite face of said shank being flat and constituting an object-engaging face lying in a plane unobstructed by other portions of said hook.

2,533,906

DRESS FORM

Ruth W. Akers, Freeport, Tex., now by decree of marriage Ruth Akers Nielsen

Application October 31, 1946, Serial No. 706,820
3 Claims. (Cl. 223—68)

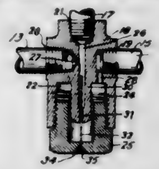
1. A hollow dress form shaped externally to closely simulate the external contour of the trunk portion of the human body, said dress form comprising a wall composed solely of a pliable mat of distortable material, the mat of material being porous and inherently resilient so that the wall of the form will, when distorted by application of pressure, rebound to its original shape upon release of such distorting pressure; the wall being sufficiently thick that the material itself is self sustaining.

2,533,907

PRESSURE REDUCER AND AIR STRAINER

Frank H. Anderson, Minneapolis, Minn.

Application March 19, 1949, Serial No. 82,403
2 Claims. (Cl. 138—45)



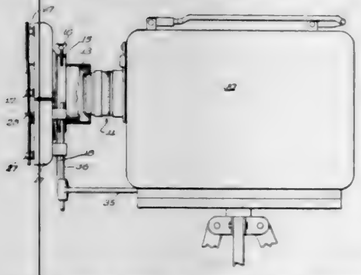
1. In a pressure-reducing valve for effecting large reductions in gas pressures, a valve body having inlet and outlet openings with a reducing orifice intermediate said openings, said reducing orifice having at least a portion thereof of circular cross section, and a throttling and clean-out needle of substantially uniform, circular, cross-

sectional area normally occupying and projecting through said circular portion of the orifice, said needle being of a diameter substantially equal to the diameter of said circular orifice portion, and fitting into said orifice with a near tight fit, whereby the effective size of the orifice is defined by the infinitesimal area of the annular space between the needle and the orifice, and means for rotating said needle within said orifice.

2,533,908
RADIO SIGNAL DETECTOR
Donald H. Andrews, Baltimore, Md., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application November 25, 1947, Serial No. 787,959
3 Claims. (Cl. 250—25)

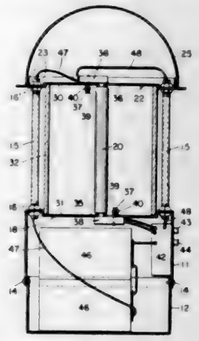
2. A radio receiver comprising in combination a tuned circuit including a conductive member, means for maintaining said member at a temperature below its superconductivity transition temperature, an audio frequency amplifying circuit coupled to said tuned circuit, and an audio frequency responsive device connected to the output of said audio frequency amplifying circuit.

2,533,909
FADE-OUT SHUTTER FOR ATTACHMENT TO MOTION-PICTURE CAMERAS
Albert G. Bak, Palatine, Ill.
Application October 17, 1947, Serial No. 780,518
3 Claims. (Cl. 95—56)



1. A fade-out shutter adapted for attachment to a motion picture camera, comprising: a light-transmitting tube, a frame mounted at one end of said tube and having a plurality of angularly spaced arms extending outwardly from the tube in a plane normal to the axis of the tube, each of said arms comprising a guide and having a lengthwise extending slot, a plurality of shades each slidably mounted in one of said guides, individually, and movable therein toward and away from each other and toward and away from the axis of said tube, said shades being effective, conjointly, to close the bore of said tube against admission of light but movable outwardly from the tube to form an opening for entry of light into the tube bore, a ring encircling said tube and manually rotatable therearound through a limited angle, and a plurality of links each pivotally connected at one end to said ring, the other end of each link having a pin which extends through one of said slots and engages one of said shades, the arrangement being such that said pins move lengthwise of said slots in response to rotation of said ring and thereby propel said shades to open and close said bore.

2,533,910
PORTABLE BATTERY OPERATED FLUORESCENT HAND LANTERN
Jesse A. Barr, Highland Park, Calif.
Application January 27, 1947, Serial No. 724,587
3 Claims. (Cl. 240—10.63)

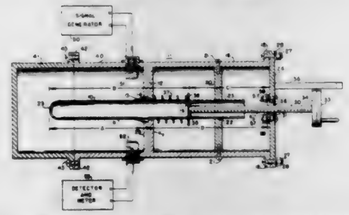


1. A portable hand lantern comprising a base formed of a circular hollow casing means adapted to contain a battery, said casing having a centrally apertured upper wall dished to form a recess surrounding the aperture, a pair of upright supports mounted on said base, a plate mounted on said supports at the upper ends thereof, said plate being centrally apertured and having a recess similar to that of said upper wall of said base, a lamp socket supported by said plate behind the central aperture therethrough and a second lamp socket supported by the upper wall of said casing behind the central aperture therethrough, a lamp tube extending vertically between said sockets, said aperture in said plate being of sufficient size to permit of the removal therethrough of said lamp tube past said socket, and a light transmitting globe extending between said base and said plate enclosing said lamp tube.

2,533,911
ENAMEL AND METHOD OF PREPARING THE SAME
Henry A. Bates, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 10, 1945, Serial No. 577,348
6 Claims. (Cl. 260—19)

1. The method of preparing an adherent oleoresinous baking lacquer composition for coating metal which comprises cooking 100 parts by weight of an oil-soluble varnish resin with substantially 100 to 240 parts of a drying oil having an average of at least two double bonds in an acid radical, said varnish resin having an acid number of about 12 to 18 and said drying oil having an acid number of at least 1, in the presence of zinc oxide in the proportion of about 0.5% to 2.5% of the combined weight of the resin and oil, at least until the zinc oxide has reacted, terminating the cooking when the viscosity is substantially 8 to 11 seconds with a #3 Zahn Cup, and while the product is still soluble in mineral spirits, and then thinning with a volatile solvent.

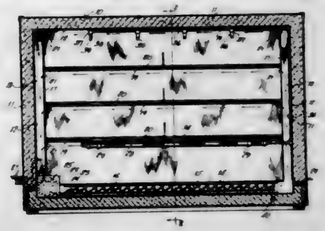
2,533,912
RESONANT ELECTRICAL ARRANGEMENT
Basil A. Bels, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application December 4, 1946, Serial No. 714,081
4 Claims. (Cl. 178—44)



1. A resonant electrical arrangement comprising, an elongated resonance-determining element having a predetermined length and constructed of a material having a first thermal coefficient of linear expansion, supporting means therefor constructed of a second material having a second thermal coefficient of linear expansion and having one portion resiliently engaging said resonance-determining element at any of a plurality of positions along said predetermined length and another portion spaced a predetermined distance from said one portion, and means co-operating with said supporting means at said other portion thereof and engaging said resonance-determining element adjacent one end thereof for adjusting the position of the other end thereof with respect to said one portion of said supporting means, said adjusting means being constructed of a material having an approximately minimum thermal coefficient of linear expansion which is much less than said first and said second thermal coefficients, the portion of said resonance-determining element between said other end thereof and said one portion of said supporting means being effective to determine the resonant frequency of said arrangement, said predetermined length of said resonance-determining element and said predetermined distance between said one and said other portions of said supporting means being so selected that the product of said predetermined length and said first thermal coefficient is substantially equal to the product of said predetermined distance and said second thermal coefficient so that the resonant frequency of said arrangement remains substantially constant over a range of operating temperatures.

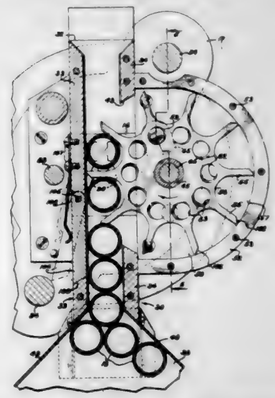
2,533,913
REFRIGERATED VEGETABLE DISPLAY CASE AND SPRAY SYSTEM
John S. Booth, Dallas, Tex.
Application August 4, 1949, Serial No. 108,617
1 Claim. (Cl. 62—89.5)

In a vegetable cooling and moisturizing case, the combination comprising a case having a display front, a display compartment and a series of vertically spaced vegetable display racks in said display compartment, a false bottom in said case defining a refrigerating compartment, an absorption coil in said refrigerating compartment, a wall at each end of said display compartment spaced inwardly from the ends of said case and defining a vertical air duct at each end of said case in communication with said refrigerating compartment, said end walls each having a series of vertically spaced horizontal slots effecting communication between said air ducts and said display compartment, thermostatically controlled means for causing circulation of air through said refrigerating chamber, air ducts and longitudinally of said display racks through said horizontal slots, a water precooling chamber below the lowermost of said display racks, a series of spray heads above the uppermost of said



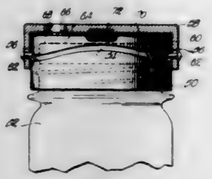
display racks, means for supplying water to said precooling chamber to be conveyed to and discharged by said spray heads in mist form into the air circulated in said case and distributed thereby throughout said display compartment and time controlled means for predetermining the operative periods of said spray heads.

2,533,914
BLANK FEEDING AND LOCATING MECHANISM FOR PUNCH PRESSES
Edward A. Brandt, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 24, 1947, Serial No. 730,371
7 Claims. (Cl. 164—87)



1. In a press having a pair of relatively movable tools and tool holders therefor, the combination of a guideway supported by one of said tool holders for guiding a blank in a predetermined path relative to the tools, a feed wheel rotatable step by step supported by said one tool holder and having a plurality of radially disposed fingers cooperating with said guide member for moving and positioning successive blanks longitudinally of the guideway to locate the blanks in a predetermined position with respect to said tool, a cam member carried by the other of said tool holders for actuating said feed wheel through one-half step during the relative receding movement of said tool holders, and another cam member carried by said other tool holder for actuating said feed wheel the other half step during the relative advancing movement of the tool holders.

2,533,915
ROTATABLE CLOSURE STRUCTURE HAVING YIELDABLE LOCKING MEANS
Chester A. Brooks, Mission, Kans.
Application May 7, 1945, Serial No. 592,377
2 Claims. (Cl. 222—513)

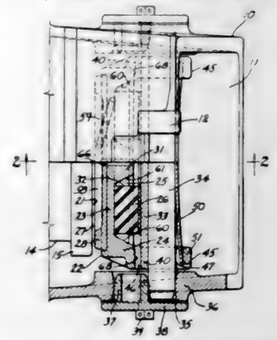


2. Closure structure for containers comprising a neck having a cylindrical side wall provided with an external, serpentine, continuous groove; a plurality of equally-spaced notches in communication with the groove; a cap having a flat end wall and a cylindrical skirt, the latter being in circumscribing relation with the cylindrical wall of the neck, said cap and the neck having superimposed end walls; radial, inwardly-extending projections on the skirt and formed to enter the groove; resilient means between the superimposed end walls of the neck and cap; an outlet port formed in the end wall of the neck; and an opening formed in the end wall of the cap, said opening and port each being eccentrically positioned for registry when the projections of the cap are in the notches respectively, said groove being curved toward the resilient means along two diametrically-opposed portions thereof and away from said resilient means along two diametrically-opposed segments thereof, said notches each communicating with a corresponding segment of the groove at that edge thereof proximal to the resilient means and at the point thereon of greatest distance from said resilient means.

2,533,916
LOCK WASHER
Chester A. Brooks, Mission, Kans.
Application January 21, 1946, Serial No. 642,521
1 Claim. (Cl. 151—25)

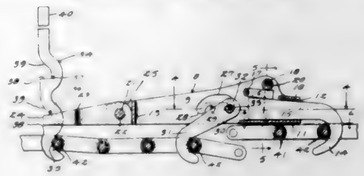
A lock washer for use with threaded bolts and nuts, said lock washer comprising a split ring having an opening to receive the threaded portion of said bolt; a lug integral with said split ring adjacent one end thereof and extending inwardly from the innermost edge of the split ring into said opening; complementary, opposed, overlapping faces at the ends of said split ring, said faces being elongated, the longitudinal axes of said faces being disposed tangentially to said opening and being beveled transversely only and throughout the length thereof for moving said lug into the threads of said bolt along a path of travel perpendicular to said axes as said faces are forced together during application of said nut; and detent structure on said split ring disposed to preclude shifting of the opposite end thereof as the lug is forced into said threads.

2,533,917
JOURNAL BOX
Albert Oliver Buckius, Cleveland, and Donald Willison, Shaker Heights, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application May 21, 1947, Serial No. 749,542
13 Claims. (Cl. 308—41)



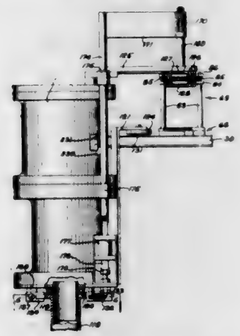
1. In a journal box a journal extending therein, a thrust receiving member facing the end of said journal and adapted to engage therewith upon movement of said journal in a direction outwardly of the box, abutment means in thrust receiving relation to said member and having end portions engaging the box, a resilient pad interposed between said member and said abutment means for cushioning outward movement of said member and other resilient means interposed between said member and said abutment means for cushioning inward movement of said member.

2,533,918
CHAIN TIGHTENING DEVICE
Goldie M. Burnett, Sweetwater, Tex., assignor of one-half to Roy L. Burnett, Sweetwater, Tex.
Application August 19, 1949, Serial No. 111,203
5 Claims. (Cl. 254—78)



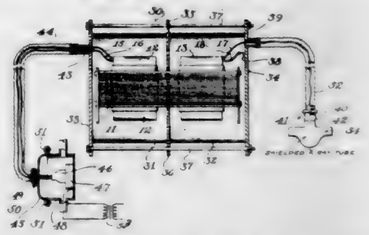
1. A sprocket chain tightening device comprising an elongated body member, a hook having a shank reciprocally disposed in one end of said body member for movement longitudinally thereof and projecting from said end, said hook being adapted to engage a sprocket chain pin on one side of a break therein or a link thereof to be removed or repaired, a manually actuated cam means rotatably mounted in the body member, a clamp engaged by said cam means for clamping said hook shank in the body member in one position of said cam means, a hook pivotally connected to and projecting from the opposite end of said body member, a lever having longitudinally spaced notches adjacent one end thereof for selectively engaging said last mentioned hook and an oppositely spacing notch in the terminal of said end for engaging another pin of the chain on the other side of the link thereof to be repaired or replaced, said last mentioned pin engaging notch facing toward said hook whereby the portions of the chain disposed therebetween will be drawn toward one another when the opposite, handle end of said lever is swung on said second hook as a fulcrum in a direction away from the body member, and a holding hook swingable mounted in the body member and extending downwardly therefrom for engaging another pin of the chain and on the opposite side of the link thereof to be repaired or replaced from the pin engaged by the first mentioned hook, said holding hook being longitudinally displaceable relatively to said body and having means for retaining the holding hook in a plurality of selected longitudinally spaced positions for holding the spaced portions of the chain after said portions have been drawn together by operation of the lever.

2,533,919
APPARATUS FOR MANUFACTURING RADIO TUBES
Milton J. Christiansen and Rocco J. Detuno, Chicago, Ill., and Howard W. Garbe, Madison, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1946, Serial No. 696,368
4 Claims. (Cl. 113—59)



3. An apparatus for conveying and brazing work piece assemblages comprising an intermittently actuated conveyor for carrying assemblages, intermittently effective pivotal heating means with which a work piece assemblage is aligned at the termination of each actuation of said conveyor, a plunger movable with said heating means and gravity actuated for applying pressure to the work piece assemblages during their brazing, solenoid actuated means movable with said heating means for retracting said plunger, means for pivotally supporting said heating means, a roller carried by said supporting means adjacent the upper surface of said conveyor, a plurality of pins extending from said conveyor surface arranged to engage in succession said roller at the termination of each actuation of said conveyor and upon actuation of said conveyor to move said heating means out of the path of the brazed assemblage, means for returning said heating means on its pivotal supporting means into the path of a following assemblage to be heated and said roller into the path of a following pin, and means including a control circuit automatically operable for intermittently actuating said conveyor and plunger and for controlling the effectiveness of said heating means in a predetermined cyclic order.

2,533,920
ELECTRIC DISTRIBUTION SYSTEM
Louis H. Crook, Washington, D. C., assignor of sixty-five per cent to Samuel B. Pack, Washington, D. C.
Application June 6, 1942, Serial No. 446,149
3 Claims. (Cl. 171—97)



1. A first winding, a casing of nonmagnetic material of good current conductivity disposed housing said first winding, a load device including an outer metallic terminal and also including an inner metallic terminal disposed substantially housed by said outer terminal and insulated therefrom, metallic conduit means conductively connecting said casing and said outer terminal, one pole of said winding being conductively connected to said casing and the other pole of said winding being connected to said inner terminal by an insulated lead disposed within said conduit, a second winding disposed externally of said casing, and means to couple said first winding and said second winding to define a transformer therewith, said means comprising a core of magnetic material entered in said first winding and extending outwardly through a wall of said casing and entered in said second winding.

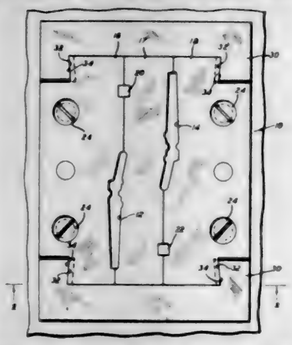
2,533,921
VALVE ASSEMBLY
Carl P. Dahl, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application February 15, 1945, Serial No. 578,082
5 Claims. (Cl. 251—13)

1. In a valve assembly, a casing having at least one inlet port and an outlet port and a seat surrounding each port, a valve element swingably mounted in the casing for controlling flow through the ports, and detent means for yieldably retaining the valve element in a selected flow controlling position and adjustable for locking the valve element in said selected position and for tightly pressing it against its seat.

2,533,922
DIE
Alwin Deichmiller and Edmund F. Shalla, Pasadena, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 19, 1948, Serial No. 34,003
3 Claims. (Cl. 164—118)

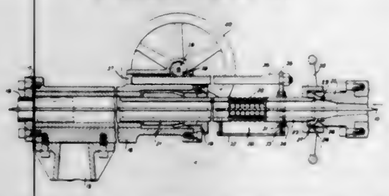
2. A die, which comprises a platen, a die element having a split therein extending from one end to the other end, said die element having male dovetailed portions bracketing the ends of the split and also being provided with a non-

circular die opening intersecting the split therein, a pair of clamps having female dovetailed portions complementary to the male dovetailed portions of the die element for clamping together the portions of the die element on opposite sides of the split, a key for keying the portions of the die element against movement relative to one another along the split, and means for securing one of the die element and the pair of clamps to the platen, the dovetailed portions of the die element and the clamps being wedge-shaped in a plane



substantially transverse to the plane of the die and the direction of wedging being such that the one of the die element and the pair of clamps that is secured to the platen locks the other to the platen, the clamps and the die element being so constructed and arranged that there is clearance between the ends of the arms of the clamps and the die element and the ends of the die element about the portions of the clamps between the arms thereof when the clamps are in locking positions on the die element.

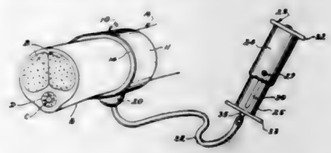
2,533,923
CONNECTING MECHANISM
Karl C. Edwards, Chase, Md., and David D. Jones, Weston, Conn., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 21, 1946, Serial No. 717,670
9 Claims. (Cl. 18—6)



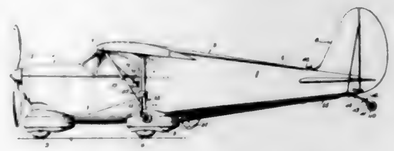
1. A flexible connecting mechanism for joining a fixed position extruder to a fixed position vulcanizing tube, comprising an adapter secured to the extruder, a tube slidable longitudinally within the vulcanizing tube, and a flexible end portion on the slidable tube engaging and effecting a pressure tight joint with the adapter.

2,533,924
ARTIFICIAL SPHINCTER
Frederic E. B. Foley, St. Paul, Minn.
Application June 28, 1948, Serial No. 35,625
5 Claims. (Cl. 128—346)

4. An apparatus for controlling involuntary escape of urine comprising a clamp for the male organ, said clamp having a seat adjacent the ventral portion of the organ, a bulbous distensible element positioned in the seat, and a distension means on the apparatus for distending the element towards said ventral portion.



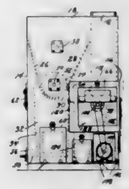
2,533,925
ROADABLE AIRPLANE
Robert E. Fulton, Jr., Washington, D. C., assignor to Continental, Incorporated, Washington, D. C., a corporation of Connecticut
Application March 3, 1945, Serial No. 580,843
2 Claims. (Cl. 244—2)



1. A vehicle comprising an automobile portion having supporting wheels, a separable aircraft portion having wings and tail structure, interengaging means for retaining said portions in assembled relation for flight of the vehicle, the aircraft portion being supported as a cantilever by said automobile portion when they are so connected, a separately adjustable support carried by the aircraft portion beneath each wing for holding the forward end of the aircraft portion elevated above the ground in the desired position when the automobile portion is to be removed from or recoupled to the aircraft portion, castered wheels at the lower ends of each of said adjustable wing supports, a tail support including a castered supporting wheel, and means for adjustably positioning said tail support without tilting the axis of castering whereby it may function in its upward position as a tail support for the assembled vehicle when necessary and be moved downwardly away from the tail structure to support the rear end of the aircraft portion in a higher position above the ground when the automobile portion is to be removed.

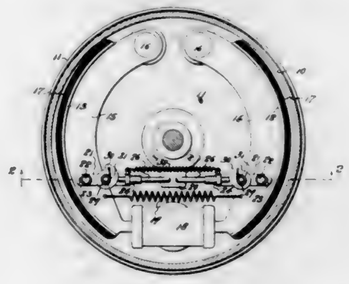
2,533,926
SMOKE TREATMENT AND CONTROL FOR SMOKE HOUSES
Stanley L. Gershel, New Philadelphia, Ohio, assignor to Gershel Smoke Equipment Co., New Philadelphia, Ohio, a corporation of Ohio
Application May 2, 1949, Serial No. 90,922
7 Claims. (Cl. 99—259)

1. A smoke producer for smoke houses comprising a housing having a fire-box therein, a chamber in said housing open along one side of the housing, a vent for smoke from the fire-box into said chamber, a duct remote from said vent for conducting the smoke from said chamber out of the housing to its place of use, and a smoke treating unit insertible into said chamber through the open side, said unit having an inlet and an outlet to register with said vent and duct and



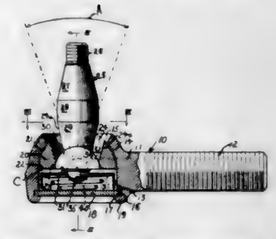
thereby cause the smoke to travel through said unit while said unit is in the chamber.

2,533,927
WEAR TAKE-UP MEANS FOR WHEEL BRAKES
George C. Geyer, Hillside, N. J.
Application May 20, 1947, Serial No. 749,249
1 Claim. (Cl. 188—79.5)



In a brake mechanism having a stationary plate and a rotatable brake drum, brake shoes pivotally mounted on said plate in opposition to said drum, and means to move said shoes into and out of engagement with said drum, the combination therewith of an anchor bracket affixed to said plate intermediate said shoes, and wear take-up means interposed between said shoes and the anchor bracket and being so constructed and arranged as to adjust each of said shoes relative to the brake drum independently of the other shoe and thereby avoid displacement of the brake shoe system as a whole relative to the opposed brake drum surface, said wear take-up means comprising separate expansible linkage for each of the respective brake shoes including an elongated movable link member having one end anchored to said anchor bracket, an elongated movable link member telescopically engaged with said immovable member and having a lost motion connection with the brake shoe whereby to permit normal movement of the latter toward and away from the drum, spring means tending to resist expansion of the linkage, and a spring rotated take-up cam mounted on the immovable link member to oppose and constantly engage the free end of said immovable link member and thereby check retrograde contraction of the linkage, said spring means for resisting expansion of the linkage being in the form of a single contractible spring directly interconnecting the opposed ends of the movable link members of both separate sets of linkage and thereby causing the free ends of the immovable link members to exert constantly equalized frictional bearing pressure on the respective take-up cams.

2,533,928
JOINT ASSEMBLY
Matthew P. Graham, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 22, 1946, Serial No. 656,450
7 Claims. (Cl. 287—90)



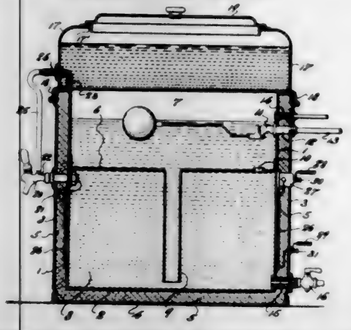
3. A joint construction comprising a housing, a fragmental ball-shaped seat tiltable and rotatable in said housing and having an elongated groove therein intersected by a hole extending through the seat, said hole having a major axis normal to the groove, and a stud projecting through said seat and having a cross head tiltable about its axis in said groove, said stud having a neck portion aligned with said hole and in contact with the minor axis portion of the hole to slide relative to the seat only in one plane while thrusting thereagainst for effecting comovement of the stud and seat in all other planes.

2,533,929
RAIL SWITCH POINT LIFTING MEANS
Griffin W. Gray and Charles B. Wade, Roanoke, Va.
Application September 18, 1945, Serial No. 617,102
2 Claims. (Cl. 246—453)

1. In a railway switch including a pair of points movable relative to a pair of rails, an elongated horizontally extending cam supporting bar for each point disposed longitudinally with and between a pair of ties, said supporting bar being formed of a twisted strap having the major transverse axis disposed vertically at the inner portion thereof and the major transverse axis of the outer portion thereof disposed horizontally, said outer portion being bent upwardly and formed with a V-shaped hook on the end thereof engaging over the outer edge of the rail base, means carried by said pair of ties for supporting the inner end of said supporting bar, a cam member including a pair of depending ears slidably engaging on the opposite sides of said inner portion, means extending through at least one of said ears for locking said cam member relative to said inner portion, a roller supporting bracket fixed to a point, a roller carried by said bracket and adapted to engage said cam member

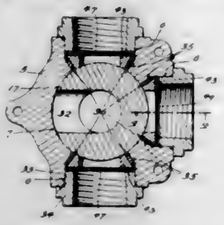
during the shifting movement of said point whereby said point will be raised during movement of said point and the path of movement through which said point will be raised may be controlled by adjustment of said cam member along said cam supporting bar.

2,533,930
BEVERAGE PREPARING AND DISPENSING APPARATUS
Herman H. Harr, Verona, N. J.
Application January 12, 1948, Serial No. 1,767
4 Claims. (Cl. 225—21)



1. Beverage preparing and dispensing apparatus comprising two reservoirs adapted to respectively contain respective liquid ingredients which, when mixed together, provide a beverage, a partition dividing one of said reservoirs into an upper intake chamber and a lower discharge chamber, a duct adapted to deliver liquid from said intake chamber to the lower level of said discharge chamber, a mixing and dispensing faucet having separate intakes in communication respectively with the upper level of said discharge chamber of the two-chamber reservoir and with the other reservoir, and heating means for said discharge chamber.

2,533,931
VALVE ASSEMBLY
Emmett C. Hartley, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application December 5, 1944, Serial No. 566,703
5 Claims. (Cl. 251—113)

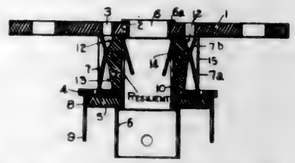


1. In a valve assembly, a casing having a rotor bore and at least one port bore leading thereinto, a rotor rotatably mounted in the rotor bore and having a flow passage therein and turnable for permitting or preventing flow of fluid through said port bore and passage, said port bore having a cylindrical outer portion and a coniform inner end extension opening into the rotor bore, a sealing ring of rubber or equivalent yieldable and resilient material formed to present an outer face perpendicular to the axis of the port bore and an inner face curved to conform to and engage in sealing contact with the periphery of the rotor and with said coniform bore extension thereby to present a relatively large mass of the yieldable ring material at each side of the ring centered in the plane intersecting the axis of said port in the direction of rotation of the rotor and a relatively small mass of said material at the other two sides of said ring, said sealing ring inner face also being curved away from the rotor periphery in both directions from an annular contact line so as to normally engage the rotor periphery at said contact line only and be free to move slightly with the rotor in either direction of rotation, and a port defining sealing ring backing ring engaging and holding the sealing ring in the port bore and shaped to form at least part of an annular groove for receiving said ring and to present an annulus within said sealing ring in position for constantly contacting the peripheral surface of the rotor and limiting the extent to which the sealing ring is deformed against the rotor periphery.

2,533,932
CARD FEEDING DEVICE
Arthur F. Hayek, Pleasantville, N. Y.
Application September 29, 1948, Serial No. 51,769
3 Claims. (Cl. 273—149)

1. In a card feeding device, a horizontally disposed card receptacle for carrying and compressing a deck of cards, a vertically disposed disc-like member rotatably mounted on the receptacle in continuous contact with one bottom edge of said deck, the receptacle and member being rotatably mounted on a common fixed base, and the disc-like member geared thereto, said rotatable member having fixed spaced teeth of different heights about the periphery thereof, for engaging and separating cards from the deck, means positioned on the fixed base for directing the cards into piles whereby upon rotation of the receptacle and said member, cards will be separated from the deck and distributed about the base in quantities determined by the number and dimension of the teeth.

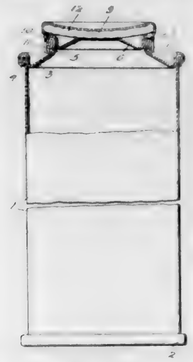
2,533,933
ELECTRICAL SOCKET
Clarence Willans Heath, Nottinghamshire, England, assignor to United-Carr Fastener Corporation, Cambridge, Mass.
Application September 15, 1947, Serial No. 774,062
In Great Britain October 16, 1946
2 Claims. (Cl. 173—328)



1. A holder for thermionic valves, electrical plugs, and like electrical devices having connector pins, said holder comprising a central socket member, a pair of plates of insulating material secured to said central socket member adjacent one end thereof, a plate of insulating material secured to an opposite end of said socket member

in spaced superposed relation to said pair of plates and provided with a series of pin-receiving apertures, a resilient guide bush of insulating material surrounding said socket member and extending between said apertured plate and said pair of plates, said bush having guide portions, each of said guide portions having outwardly sloping walls extending from opposite ends of said bush to form a V and meeting at an apex, and a series of electrical contacts, each having a vase secured between said pair of plates and a resilient strip arm portion extending toward said apertured plate and bent to form a V with an apex in abutment with the apex of the sloping walls of an adjacent one of said guide portions providing with said sloping walls a V-shaped throat for receiving a connector pin inserted into an adjacent one of pin-receiving apertures and causing electrical engagement between said pin and said arm.

2,533,934
EASY OPENING CONTAINER
John Henchert, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 6, 1945, Serial No. 609,095
1 Claim. (Cl. 220—27)



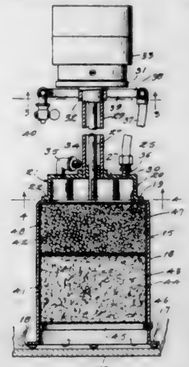
A container and reclosure therefor comprising a body, a top seamed thereto and provided with an upstanding neck portion, a sealing cap seamed to said neck portion and having an upwardly domed central portion, said domed portion midway between the seam joining the cap to the neck portion and the center of the dome being scored concentric to said center so that the edge of the metal surrounding the opening when the scored part is removed will lie substantially in a plane tangential to the outer portion of said last named seam to facilitate resealing the container, and a closure cap having a downwardly domed portion adapted to engage the sealing cap at the ruptured score line for sealing the opening formed by removing the scored portion, said reclosure cap having a depending skirt and downwardly projecting retaining tongues adapted to engage beneath the seam joining the cap to the neck of the can top.

2,533,935
CORD ACTUATED SPINNING TOY
Charles M. Herzog, Rahway, N. J.
Application July 8, 1947, Serial No. 759,509
1 Claim. (Cl. 46—47)

An amusement device comprising a pliable figurine having flexible arms, a shaft, means for securing said figurine to one end of said shaft, means for rotating said shaft including a cord fixed to said shaft intermediate its ends, means for guiding said cord carried by said shaft including a hollow member disposed on said shaft and spaced from said figurine, an opening in said hollow member having said cord passed therethrough, thrust bearings mounted on said shaft on opposite sides of said hollow member to limit

the axial movement of said hollow member with respect to said shaft, a base having an aperture and spaced from said hollow members, a partition in said base, the end of said shaft opposite the said end having the figurine thereon being passed through said aperture and disposed on said partition, and a bearing adjacent said partition on said shaft engaging the edge of said aperture in said base for supporting said shaft in a substantially vertical position.

2,533,936
AQUARIUM AERATOR
Charles H. Holmes and James L. Snyder, Chicago, Ill., assignors to H. O. Kesler and I. G. Merner, both of Chicago, Ill.
Application November 3, 1948, Serial No. 58,104
3 Claims. (Cl. 210—16)



1. An aquarium aerator comprising a hollow base open at the bottom and adapted for mounting within an aquarium, a filter member in said base, a pump carried by said base having the suction side thereof communicating with said base above said filter member, a motor connected to said pump, means supporting said mo-

tor above said pump and above the water in the aquarium, a circulating nozzle connected to the discharge side of said pump, and an apertured jet member connected with the outlet side of said pump whereby to discharge water in jet form into the water in the aquarium.

2,533,937

METHOD OF PRODUCING HYDROGEN

Sven E. Hybinette and Francis C. Cary, Wilmington, Del.

No Drawing. Application August 11, 1947, Serial No. 768,076
1 Claim. (Cl. 23—214)

In the production of hydrogen the steps of stirring and mixing molten aluminum with finely divided calcined dolomite heated above the melting point of aluminum, reacting the resulting mix with water after cooling, and collecting said hydrogen evolved.

2,533,938

ESTERS OF ALIPHATIC MONOCARBOXYLIC ACIDS AND POLYBUTADIENE ALCOHOLS AND METHOD FOR PREPARING THE SAME

Edward Levant Jenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 2, 1947, Serial No. 777,591
19 Claims. (Cl. 260—488)

2. A process for the preparation of alkanoic acid esters of C_{4n} alcohols where n is a plural integer which comprises reacting an alkanoic acid of one to six carbons under anhydrous conditions with butadiene in the presence of perchloric acid.

10. Acyclic acetates of the formula

$$H(C_4H_6)_nO—CO.CH_3$$

where n is a plural integer from 2 to 10 and the $—C_4H_6—$ radical is a butenylene radical.

2,533,939

ACETIC ACID ESTERS OF ARALKYL ALCOHOLS AND METHOD FOR THEIR PRODUCTION

Edward Levant Jenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 2, 1947, Serial No. 777,592
5 Claims. (Cl. 260—488)

3. An ester composition of the formula

$$H(C_6H_5C_2H_3)_nO.CO.CH_3$$

where n is an integer from 2 to 4.

5. A process which comprises reacting styrene with an alkanoic acid of one to six carbons in the presence of perchloric acid.

2,533,940

ANTITELESCOPING COUPLER

George T. Johnson, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio

Application April 12, 1944, Serial No. 530,637
7 Claims. (Cl. 213—153)

7. A knuckle structure for railway coupler comprising, a knuckle having top and bottom surfaces, a front face and a rear face on the knuckle, hinge means at one edge of the knuckle, an arm carried by the knuckle adjacent the hinge means projecting above said top surface, a lug carried by said arm, an under surface on said lug spaced above the top surface of the knuckle and extending beyond the rear face of the knuckle, an arm carried by the knuckle adjacent

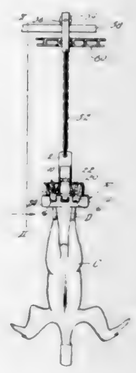
the hinge means projecting below said bottom surface, a lug carried by the second arm, and an upper surface on said second lug spaced below said bottom surface and extending beyond the rear face of the knuckle.

2,533,941

POULTRY SHACKLE

Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri

Application February 12, 1945, Serial No. 577,561
4 Claims. (Cl. 17—44.1)



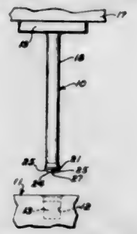
1. A poultry shackle comprising an inverted T-shaped member having a horizontal head and a vertical body portion suspended on a flexible support and having the upper edges of the head of said member having notches at opposite sides of the body thereof to receive the legs of a fowl, a jaw hingedly mounted on one side of said T-shaped member and adapted to normally close said notches, a manually operable spring bolt latch mounted on the opposite side of said T-shaped member and a perforated tongue integral with and extending transversely of said hinged jaw and adapted to extend through an opening formed through said T-shaped member whereby to be engaged by said bolt latch to secure the hinged jaw in the closed position.

2,533,942

EXTRUDING APPARATUS

Ralph Jongedyk, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application May 6, 1948, Serial No. 25,371
2 Claims. (Cl. 207—2)



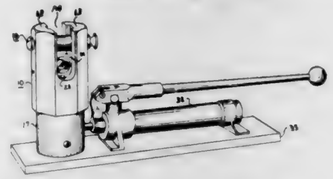
1. In an apparatus for forming a container of greater length than width in cross-sectional area and which is long and of relatively small cross-sectional area by extrusion, a punch of similar relative proportions, and a die having a die cavity cooperating with said punch and of a size to provide an endless space between it and the punch when the punch is moved to operative position in said cavity, said punch having formed in its end working surface a set of aligned depressions extending parallel to its cross-sectional length into which the material flows at the beginning of the extrusion operation effective to anchor the punch whereby any tendency of deflection and bending thereof is prevented during such operation.

2,533,943

DIE HEAD DEVICE

Charles H. Klein, Cleveland, Ohio, assignor to The National Telephone Supply Company, a corporation of Ohio

Application June 13, 1947, Serial No. 754,558
4 Claims. (Cl. 153—1)



1. A die head device comprising, a base portion, a first and second arm member extending from and integral with said base portion with a slot area therebetween, a piston chamber in said base portion opening into said slot area, a first die guide on said first arm member, a second die guide on said second arm member, said first and second die guides being substantially parallel and defining a die path, said first and second die guides being on the inner faces of said arm members, a power piston operable in said piston chamber in said base portion, said piston being adapted to move in the direction of said die path, said first arm member having an opening therethrough, said second arm member having an opening therethrough, said openings having a common axis substantially perpendicular to said die path, a pin mounted to reciprocably slide through said openings from an open position engaged with only said first arm member, to a second position engaged with both said first and second arm members, said pin having a flat longitudinal surface against which flat die surfaces may abut under driving force from said power piston, said pin and the openings in the first and second arm members having cooperating arcuate bearing surfaces on the side of the pin opposite said flat surface, and means on said first arm and said pin cooperating to prevent unintentional removal of said pin beyond the said retracted open position.

2,533,944

PRODUCTION OF KETOESTERS

Elbert C. Ladd, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 9, 1946, Serial No. 708,929
6 Claims. (Cl. 260—491)

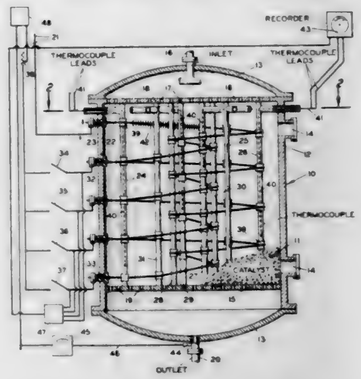
1. Process of preparing a ketoester which comprises reacting a primary aliphatic aldehyde having the type formula RCHO in which R is a saturated linear hydrocarbon with a 2-propenyl ester of a monobasic carboxylic acid in the presence of a peroxidic catalyst until said ketoester is formed and isolating said ketoester.

2,533,945

CATALYST CHAMBER AND METHOD FOR HEATING SAME

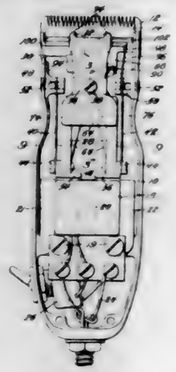
Harold R. Legatski, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 2, 1948, Serial No. 42,043
14 Claims. (Cl. 196—52)



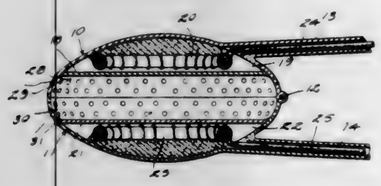
3. A method for endothermic, catalytic conversion, which comprises the steps of introducing a material to be converted into a conversion zone charged with a catalyst material; passing heat of conversion into a first portion of said conversion zone; varying the heat input to said first conversion zone portion in accordance with the gravity of effluent material from said conversion zone; progressively extending to an additional portion of said conversion zone the volume into which heat is passed in series through said first conversion zone portion as the temperature in the preceding conversion zone reaches a predetermined temperature; alternately varying the heat input and extending the volume of conversion zone in accordance with the specific gravity of effluent and temperature of the heated conversion zone respectively; and removing conversion products from said conversion zone.

2,533,946
PORTABLE VIBRATOR-TYPE TOOL
George N. Levesque, Cranston, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application March 20, 1947, Serial No. 735,869
13 Claims. (Cl. 172—126)



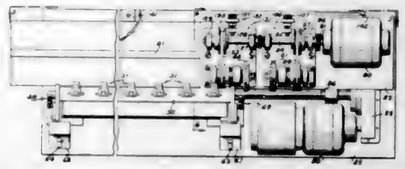
1. In a vibrator-type tool having a casing and a vibratory tool member supported from the casing, the combination of a motor comprising an electro-magnet and an armature vibrator connected to impart vibratory movement to the tool member, a vibration absorbing element supported from the casing and arranged to vibrate in opposition to the vibratory movement of said vibrator, and opposed stop surfaces on the vibrator and vibration absorbing member spaced to contact one another at extreme limits of movement of the vibrator in each direction.

2,533,947
ELECTRIC SPOON
Bernard Lipnicki and Romuald Lipnicki, Newington, Conn.
Application January 21, 1949, Serial No. 72,026
3 Claims. (Cl. 219—41)



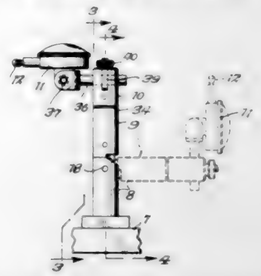
1. An immersion heater comprising a pair of confronting spoon-shaped members, means hingedly securing said members together one end thereof, a pair of elongated tubular handles fixed to and extending rearwardly from said one end of said members, a wall fixed in each of said members extending parallel to the edge thereof and dividing the interior thereof into a pair of chambers, a heating element in the inner one of said chambers, the outer wall of said other chamber being formed with openings, electrical conductors extending through said handles and connected to said heating elements, and a spring fixed between the rear ends of said handles normally holding said members in confronting and contacting position.

2,533,948
EDGE CLEANING APPARATUS
Jerome R. Marcus and Frederick W. Turner, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1945, Serial No. 604,462
12 Claims. (Cl. 15—21)



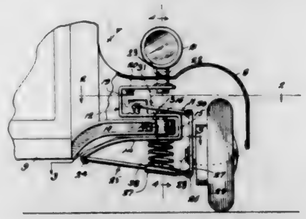
1. An edge cleaning apparatus comprising means for supporting an article with an edge thereof in a predetermined position, a gage member mounted on said supporting means and movable to and from operative and inoperative positions and operable in said operative positions for receiving an edge of an article thereagainst to locate said edge in said position, edge cleaning brushes, a carriage for carrying said brushes along said edge, means for driving said carriage, means including a switch member for supplying power to said driving means, said switch member being actuatable by said gage in its operative position to render said means for supplying power inoperative, and individually operable means on said carriage for individually adjusting the brushes toward and away from said edge.

2,533,949
MOUNTING FOR DIAL TEST INDICATORS
Richard J. Maus, Buffalo, N. Y.
Application May 7, 1947, Serial No. 746,575
4 Claims. (Cl. 248—121)



1. A test indicator mounting comprising a plurality of members, one of said members being constructed to be secured in a fixed position, another member having a test indicator secured thereto and an intermediate member pivotally connected to said other two members, adjusting means on said other member for enabling said test indicator to be secured in correct relation to the work to be tested, pivotal connections between said adjacent members, the axes of said pivotal connections between said intermediate member and said other two members being arranged in angular relation to each other, cooperating parts associated with said pivotal connections for releasably holding each of said members in fixed relation to the other members, said cooperating parts when released permitting said members to swing about the axes of their pivotal connections, said members when returned to their initial positions being again held by said parts in the positions formerly occupied thereby.

2,533,950
INDIVIDUAL MOUNTING FOR STEERABLE WHEELS
Thomas B. McCormick, Billings, Mont.
Application January 17, 1947, Serial No. 722,670
1 Claim. (Cl. 280—96.2)

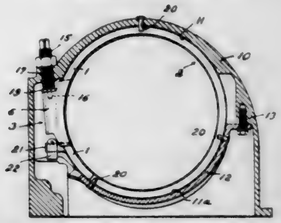


A front steering wheel and headlight mounting for motor vehicles comprising, in combination with a front steering wheel, a front axle end and a headlight; a mounting comprising a unitary frame having spaced portions disposed above and beneath the front axle end, a kingbolt extending through the axle end and said spaced portions and swivelly connecting the frame to the axle end, a wheel bracket plate, a stub axle secured to and projecting outwardly from the wheel bracket plate on which said front steering wheel is journaled, means pivotally connected to spaced parts of the wheel bracket plate and to said spaced frame portions above and below the axle end and extending across the axis of the kingbolt and yieldably supporting the wheel bracket plate on the frame for movement in substantially a vertical plane relatively to the frame and front axle end, said frame including an integral headlight supporting portion disposed above said spaced frame portions to which the headlight is secured and on which the headlight is mounted to swivel about an axis substantially in alignment with the axis of the kingbolt whereby the headlight will swing in unison with said front steering wheel.

2,533,951
SHOCK ABSORBING AIRCRAFT SKID
Valance Heath Patriarche, Ottawa, Ontario, Canada
Application September 11, 1946, Serial No. 696,321
3 Claims. (Cl. 244—108)

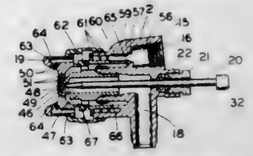
1. A landing skid for aircraft having undercarriage means including a stub axle comprising a substantially flat resiliently flexible skid member upturned at both ends, a flexible top chord member hingeably connected at either end to the upturned ends of said skid member, inflatable resilient means designed to fill and be secured within the entire space between said top chord member and said skid member to transmit stress uniformly to all parts of said skid member, socket means carried by said top chord member for connecting to the stub axle and adjustable stay means connecting to the front and rear of said landing skid for controlling the trim thereof.

2,533,952
CLUTCH SPRING ANCHORAGE
Carl P. Pepper, Plainfield, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application December 31, 1948, Serial No. 68,666
3 Claims. (Cl. 267—1)



1. In combination with a torque-transmitting spring of the character described, an anchor element comprising a U-shaped piece of metal having integral wing portions embracing opposite side surfaces of a coil of the spring and rigidly attached thereto as by welding or brazing.

2,533,953
SPRAY GUN
Donald J. Peeps, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application September 8, 1947, Serial No. 772,780
3 Claims. (Cl. 299—150)

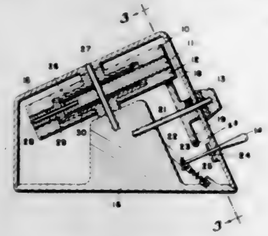


3. In a spray gun of the class described, separable spray head and body parts, the spray head having separate passages for the discharge of material to be sprayed and for atomizing air and having at its rear end a centrally disposed rearwardly projected nipple and a rearwardly opening inlet above said nipple and in connection with the air passage, a needle type control valve for the material discharge projecting rearwardly from the head through said nipple, said body including a cylinder with a forwardly and rearwardly extending axis, fluid pressure controlled means reciprocally operable in said cylinder and connectable with said needle valve, said body having laterally spaced arms projecting forwardly from the lower portion of the forward end of the cylinder, said arms having upwardly turned end portions embracing opposite sides of the spray head, a bridge between said ends abutting the rear end of the spray head and having two openings, one above the other, the upper one registering with said inlet opening, the other receiving said nipple, and means extending through the upper opening into said inlet opening for releasably retaining said head and body in assembled relation.

2,533,954
CALCULATING MACHINE
Norton T. Pierce, Reading, Mass.
Application June 11, 1949, Serial No. 98,430
6 Claims. (Cl. 235—79.5)

1. In a calculating machine, a fixed index line thereon, a series of three cylindrical drums ro-

tatably mounted in parallel relation on a common shaft and having scale markings on their peripheral edges, said drums being rotatable with respect to said fixed index line, a differential gearing connecting said cylindrical drums,

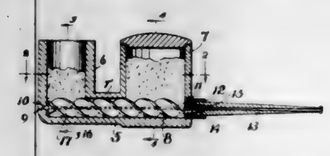


a turning knob engaging an outer drum for rotating it and a locking device for alternately locking one of the other two drums against rotation, as desired, as the third drum is rotated through said turning knob.

2,533,955
PORTABLE THERAPEUTIC DEVICE
Norman H. Pitts, Hardwick, Ga.
Application October 22, 1948, Serial No. 55,947
1 Claim. (Cl. 128—396)

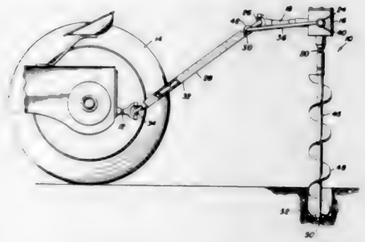
In a therapeutic device, in combination with a self contained light and heat source having a bulb socket at one end thereof and having a lamp bulb mounted therein and with the globe projecting outwardly therefrom, an applicator or shield comprising a cylindrical member having an outer closed end and an enlarged inner open end for receiving the bulb socket, latch means for detachably connecting the inner open end of the applicator to said bulb socket for mounting said applicator or shield thereon, said latch means comprising a depression formed in the bulb socket and an internal projection on the inner end of the applicator or shield detachably engaging in the depression, said cylindrical portion defining a cavity for receiving the globe of the bulb and being adapted to be heated thereby.

2,533,956
STOKER SMOKING PIPE
Thayne Robertson, Boise, Idaho
Application August 7, 1946, Serial No. 689,014
3 Claims. (Cl. 131—180)



3. A smoking pipe comprising a body having a smoking bowl and a tobacco hopper with a channel therebetween, a screw conveyor located in the channel and extending from the outer wall of the hopper into the bowl, said conveyor having a longitudinal central duct and ports communicating with the duct whereby smoke from the bowl is delivered to the duct, a hollow nipple carried by the end of the conveyor adjacent the hopper, a pipe bit connected to the nipple, and means to rotatably mount the bit in the wall of the hopper whereby rotation of the bit moves the tobacco from the hopper to the smoking bowl.

2,533,957
POSTHOLE DIGGER
William H. Roelfs, Diller, Nebr.
Application October 28, 1948, Serial No. 57,072
2 Claims. (Cl. 255—19)

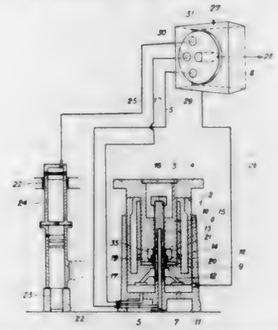


1. In a post hole digger, the combination of a driven shaft, an auger shaft, a gear head operatively connecting said shafts together, a drive shaft, a universal joint connecting said drive shaft to said driven shaft, a pair of laterally projecting handles secured to said gear head, a pair of swingable arms each pivoted at one end thereof to one of said handles, and a bearing block pivotally mounted at the remaining ends of said arms, said drive shaft being slidably and rotatably journaled in said bearing block.

2,533,958
CHEMICAL HEATING PAD, PARTICULARLY USEFUL IN PERMANENT WAVING OF HUMAN HAIR
Morris J. Root and Raymond E. Reed, St. Paul, Minn., assignors, by mesne assignments, to Raymond E. Reed, Arlington Heights, Ill., doing business as The Leed Company
Application April 23, 1946, Serial No. 664,193
3 Claims. (Cl. 132—36.2)

1. A chemical heating pad adapted for use in permanent waving of human hair having at least a portion of one face thereof formed of an imperforate but moisture-pervious, absorbent sheet comprising unwoven, felted cellulosic fibers and an exothermic composition contained within said pad beneath and contacting said sheet, said sheet having a moisture absorbency and retentivity such that when immersed in water at 70° F. for 10 seconds and allowed to drain for 10 seconds at 70° F., it retains an amount of absorbed water at least equal to 0.2 grams per square inch and said sheet, when free of contained water-soluble materials, having a porosity as defined in the accompanying specification of 0.1 to 10 seconds.

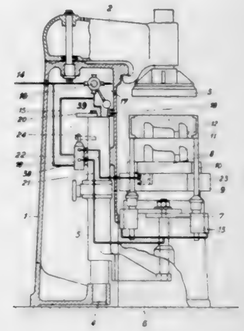
2,533,959
SHOCKLESS JOLTING DEVICE FOR MOLDING MACHINES
Hans Jakob Rothschild, Schaffhausen, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland
Application February 10, 1949, Serial No. 75,704
In Switzerland December 9, 1948
3 Claims. (Cl. 22—45)



1. A molding machine with shockless jolting, comprising a squeeze cylinder, a hollow squeeze plunger reciprocable within said cylinder and having a recess formed at the bottom thereof, a jolt piston reciprocably mounted in said squeeze plunger and reciprocable along with said plunger, a hollow valve rod immovably mounted in said cylinder and extending through said squeeze plunger and said jolt piston, said valve rod having upper openings formed therein, said upper openings of the valve rod communicating with said recesses of the jolt piston in the upper position of said plunger, said valve rod further having lower openings formed therein, recesses formed in the bottom of said squeeze plunger, said lower openings of the valve rod communicating with said recesses in the bottom of the squeeze plunger in the lower position of the plunger, a conduit connected with said valve rod for supplying compressed air thereto, the compressed air entering the recesses of the plunger through the lower openings and raising said squeeze plunger and forming a cushion at the bottom of said squeeze cylinder at the beginning of the jolting operation, said plunger while being raised closing said lower openings and connecting said upper openings with the recesses of said jolt piston to commence the actual jolting operation, an overflow conduit communicating with the interior of said cylinder at a height above the bottom thereof and below said squeeze plunger in the upper position of the latter, and a control valve connected with the first-mentioned conduit and with said overflow conduit and having means connecting said overflow conduit with the atmosphere during the jolting operation to exhaust any possible excess of air after having built up the necessary height of the air cushion.

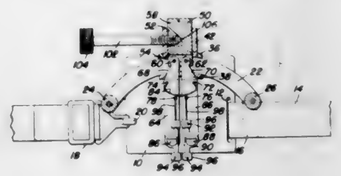
2,533,960
CONTROL DEVICE FOR LIFTING PINS ON MOLDING MACHINES
Hans Jakob Rothschild, Schaffhausen, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland
Application February 10, 1949, Serial No. 75,706
In Switzerland December 9, 1948
4 Claims. (Cl. 22—48)

1. A molding machine, comprising, in combination, a vertically displaceable drawing cylinder, mold-lifting pins, pneumatic locking means connected with said pins for locking the same, means operatively connecting said locking means with said cylinder to move said pins along with said cylinder, a pilot valve, a control valve having a casing and a valve body; supply conduits connecting a compressed air source to said pilot valve and said control valve casing, supply conduits connecting said pilot valve with said drawing cylinder and said control valve casing, whereby said drawing cylinder is actuated by compressed air from the first of said last-mentioned supply conduits, a conduit connecting said control valve cas-

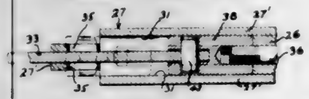


ing with said pneumatic locking means, said control valve body being movable in said casing to either of two end positions, said valve body in one of said end positions connecting said pilot valve with said locking means and interrupting this connection and connecting said compressed air source with said locking means, during its movement from said one end position to the other end position, and means carried by said drawing cylinder and engaging said valve body in the lowermost position of said cylinder to maintain the valve body in said one end position while said drawing cylinder is in its lowermost position.

2,533,961
INTRAVENOUS NEEDLE IMMOBILIZER
Wilfrid J. Rousseau and Mariano Oliver, New Bedford, Mass.
Application September 29, 1949, Serial No. 118,612
9 Claims. (Cl. 128—214)



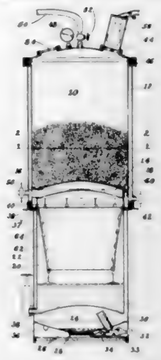
1. An intravenous needle immobilizer comprising a base plate, guide means secured to said base plate, a slide holder engaging said guide means, a slide slidably emplaced in said slide holder, a pair of spreader members pivotally secured to said slide, means urging said spreader members apart while urging said slide outward of said slide holder, and means secured to said slide holder selectively engaging said slide to limit its position.

2,533,962
PRUNING IMPLEMENT
Oliver R. Rowe and William J. Stolp, Charlotte, N. C., assignors to R. H. Bouligny, Inc., a corporation of North Carolina
Application August 2, 1949, Serial No. 108,156
1 Claim. (Cl. 30—242)

In a pruning implement having a tubular housing, an actuating rod arranged therein, a handle fixed to one end of the tubular housing, a cutter head fixed to the other extending end of the tubular housing, a cutter blade positioned in the cutterhead and coupled to the actuating rod, an operating lever pivotally mounted on the handle and connected to the actuating rod for operating the cutter blade, and a stop member removably mounted on the handle for arresting the pivoting movement of the operating lever in the cutting operation so that the coupling of the blade is always maintained within the tubular housing during use of the pruning implement, said cutterhead being formed with access openings beyond the extending end of the tubular housing, said cutter blade being coupled to said actuating rod by a removably disposed dowel pin, and said stop member being disposed so that upon its removal from the handle portion further pivoting movement of the operating lever is allowed to extend the blade coupling beyond the tubular housing and thereby provide for access to said dowel pin through said cutterhead access openings for removal of the cutter blade.

2,533,963
DRIVE ARM MECHANISM
Columbus R. Sacchini, Willoughby, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 12, 1944, Serial No. 544,593
4 Claims. (Cl. 15—251)

1. In a windshield wiper mechanism for wiping a curved surface, a power supply unit having a power take-off shaft normal to the principal plane of said surface, a housing having attaching flange means parallel to or in said principal plane, a universal joint means in said housing having permanently non-aligned input and output portions separable solely by movement of said portions out of proximity to each other, said means forming a driving connection between said power take-off shaft and said output portion, and a wiper blade drive arm secured to said output shaft.

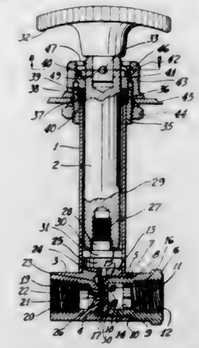
2,533,964
GELATIN MELTER
John Otto Scherer, Detroit, Mich., assignor to R. P. Scherer Corporation, Detroit, Mich., a corporation of Michigan
Application July 9, 1949, Serial No. 103,861
3 Claims. (Cl. 23—280)



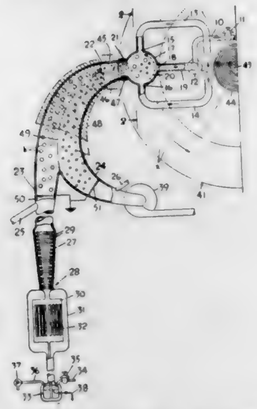
1. Apparatus for melting gelatin comprising an open top liquid container, means for heating the container, a second container removably superimposed on the first container in fluid tight relationship therewith, said second container having a side wall portion and an upwardly crowned bottom portion, an air-tight closure for said second container, said upwardly crowned bottom portion spaced throughout a portion of its circumference from the side wall portion by an encircling marginal opening through which molten gelatin can flow from the second container into the first container and means for heating the upwardly crowned bottom portion of the second container an inverted truncated conical flow directing element supported within the first container depending from the top thereof below the passageways through the bottom of the second container and extending inwardly and downwardly to a point spaced above the bottom of the first container, and a sealing cover for said second container provided with an opening arranged to submit the interior to vacuum.

2,533,965
FLUID PUMP
Leland H. Schmohl, Cleveland Heights, and John L. Habe, Cleveland, Ohio, assignors to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application December 24, 1946, Serial No. 718,146
1 Claim. (Cl. 103—228)

In a fluid dispensing device, a pump cylinder, a piston mounted for reciprocation in said pump cylinder, a fluid chamber in said pump cylinder, a valve casing connected to said pump cylinder and having a port leading from said fluid chamber in the pump cylinder to a fluid chamber in said valve casing, said valve casing having an outlet port, a valve seat surrounding said port, an adapter threaded into said valve casing, said adapter having an annular valve seat on the inner end thereof, and a transverse wall portion and inlet ports therein disposed radially inwardly of the annular valve seat, a single flexible valve element of substantially uniform thickness disposed between the valve seat surrounding the outlet port and the annular valve seat on the adapter and means for limiting the extent to which the adapter may be threaded into the valve casing whereby the valve seat on the casing and the valve seat on the adapter initially contact with the flexible valve element and flex the same, said valve casing having a recess opposed to the annular valve seat on the adapter whereby said valve element may be flexed away from the valve seat on the adapter to a limited extent to permit fluid to be drawn into the fluid chamber of the pump and said adapter having a recess in the end thereof directly opposed to the valve seat on the valve casing into which the central portion of the valve element may be flexed to a limited extent to permit the ejection of the fluid from the fluid chamber of a valve casing through said outlet port.

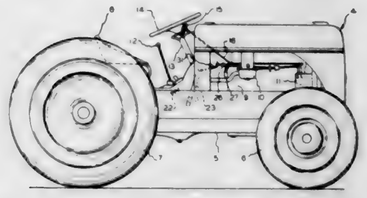


2,533,966
METHOD AND APPARATUS FOR SEPARATING ISOTOPES
Gordon Simmons, Jr., Portageville, Mo.
Application August 6, 1945, Serial No. 609,221
9 Claims. (Cl. 250—41.9)



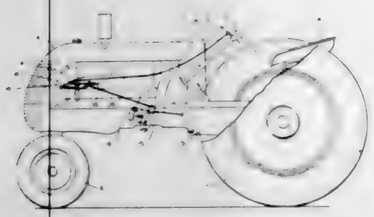
1. The method of separating elementary particles of different mass which comprises: ionizing said particles; subjecting the ionized particles to a magnetic field moving relative to said ionized particles so as to induce motion of said ionized particles in a predetermined direction normal to the lines of force of said field and with substantial velocity; subjecting the charged particles thus set in motion to a second field of force so as to deflect the ionized particles and thereby cause particles of one mass to travel in one arcuate path and particles of another mass to travel in another arcuate path divergent from said first mentioned path; de-ionizing the charged particles traveling in at least one of said paths, and collecting said de-ionized particles.

2,533,967
AUTOMATIC THROTTLE CONTROL
Leo Soble, Jonesville, Mich.
Application December 28, 1948, Serial No. 67,657
3 Claims. (Cl. 192—.084)



1. For combination with a tractor having an engine or motor with a carburetor and an operating arm on the latter to open and close the valve thereof, a clutch pedal for disengaging the clutch of the tractor upon depression of said pedal, a governor associated with the motor and having a governor arm, a second arm associated with the governor and provided with a resilient connection to the governor arm so that operation of the latter will tend to cause operation of the second arm, a carburetor control rod or link connecting said second arm with the carburetor operating arm, a steering post on said tractor carrying a throttle member, and a wire or rod interconnecting the throttle member with the first-mentioned governor arm, the provision of a mechanism adapted for connection between the clutch pedal and the throttle actuator to synchronize the clutch pedal movement with the throttle such that the tractor engine is automatically throttled-down to an idled condition when the clutch is disengaged without disturbing the initial hand setting of the throttle, which is free to reestablish the originally set throttle position when the clutch is again engaged, said mechanism comprising the combination of an upwardly directed arm adapted to be rigidly mounted upon the clutch pedal, an angle member or bracket adapted to be fixed on the tractor, a lever pivotally mounted intermediate the ends thereof upon the bracket, a rod forming a link adapted to be pivotally connected at one end to the end of the arm on the clutch pedal and at the other end pivotally connected to the inner or rear end of the last-mentioned lever, a second rod pivotally connected at the rear end thereof to the other end of the latter lever, an eye or ring loop integral upon the other end of the second rod and adapted loosely to surround the carburetor control rod, an adjustable stop member adapted to be fitted on the rod intermediate the connection thereof with the second arm associated with the governor and the eye on said second rod normally spaced a predetermined distance from the latter, and a set screw on the stop member for fixing the stop member on the rod in position to be pushed by said eye when the clutch pedal is depressed to disengage the clutch.

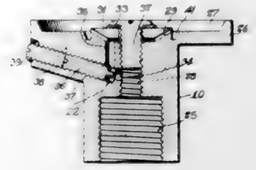
2,533,968
AUTOMATIC THROTTLE CONTROL
Leo Sobie, Jonesville, Mich.
Application December 28, 1948, Serial No. 67,658
2 Claims. (Cl. 192—.084)



1. For combination with a tractor having a clutch pedal, an engine with a governor associated therewith and provided with a governor pivot, a governor arm fixed within one end thereof to the pivot, a carburetor link connected to the other or inner end of the governor arm and to the operating arm of the carburetor of said engine, a throttle control member on the steering post of the tractor, a lever pivoted intermediate the ends thereof upon a portion associated with the governor, one end of the lever having a throttle control wire or rod interconnecting it with the throttle control member on said steering post, and a spring interconnecting the other end with the first mentioned one end of said governor arm, the provision of a mechanism adapted for connection between the clutch pedal and the throttle actuator to synchronize the clutch pedal movement with the throttle such that the tractor engine is automatically throttled-down to an idled condition when the clutch is disengaged without disturbing the initial hand setting of the throttle, so that the latter is restored to its original position when the clutch is again engaged, said mechanism comprising the combination of an automatic throttle control including a rod forming a link adapted to be connected at the one or forward end to the governor arm intermediate the inner end thereof and the governor pivot, a forwardly extending operating rod adapted to be connected to the clutch release pedal, a lever adapted to be pivoted intermediate the ends thereof upon a portion of said engine with the ends thereof connected to the rear end of the link and, by a lost motion connection, to the operating rod for automatically operating said governor arm and carburetor arm upon depressing the clutch release pedal to disengage said clutch.

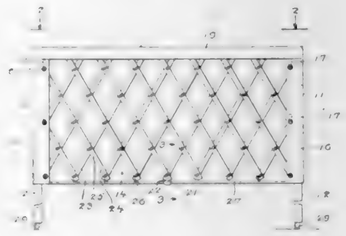
2,533,969
PERMANENT UNDERGROUND INSTALLATION LAWN SPRINKLER
Florent E. Socall, Detroit, Mich.
Application March 12, 1947, Serial No. 734,074
1 Claim. (Cl. 299—141)

In a sprinkler head, the combination which comprises a main body having a recess with an outwardly inclined peripheral surface in the upper end and having a threaded bore extended downwardly from the recess, said body having a threaded supply pipe receiving socket in the lower end communicating with the threaded bore and aligned therewith, a dispersing disk having a radially slotted conical peripheral surface corresponding with the inclined peripheral surface of the body, positioned in the recess, means removably mounting the disk on the body, said body having a vertically disposed passage parallel to the threaded bore providing communicating means between the supply pipe socket and recess by means of the said threaded bore with which the said passage is connected by a laterally positioned opening, and said body also having a laterally disposed threaded opening extended from the outer surface thereof through the said vertically disposed passage and aligned



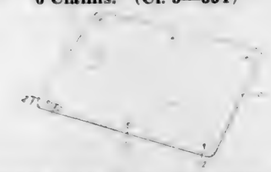
with the opening connecting the said vertically disposed passage to the threaded bore, an adjusting screw, threaded in the said laterally disposed opening and having a point positioned to extend into the opening connecting the said vertically disposed passage with the threaded bore for regulating the flow of fluid through the sprinkler head, and a cap screw threaded into the outer end of the said laterally disposed opening providing a closure therefor.

2,533,970
COLLAPSIBLE BABY BED
George A. Sole and Ethel T. Sole, Traverse City, Mich.
Application October 25, 1948, Serial No. 56,354
2 Claims. (Cl. 5—99)



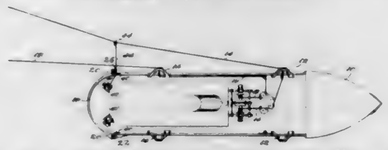
2. In a baby's crib, a pair of end members, a pair of standards secured to each of said end members, a pair of collapsible side walls each embodying a plurality of diagonally disposed bars pivotally connected together at their junctures extending between said end members and secured to said standards, a horizontally disposed brace arranged contiguous to the inner surface of each of said end members and secured to the latter, a floor arranged below said side walls and embodying a pair of sections arranged in end-to-end relation, said floor sections being hingedly connected together adjacent their meeting ends, said sections having their other ends hingedly connected to said braces, means arranged along the upper ends of said bars for protecting the occupant of the crib from the latter, and a strap arranged below said floor and secured to said side walls for supporting said floor when the crib is occupied.

2,533,971
CRIB OR THE LIKE SHEET
Abraham N. Spanel, Princeton, N. J., and Fred W. Andrews and Harold A. Owen, Dover, Del., assignors to International Latex Corporation, Dover, Del., a corporation of Delaware
Application April 30, 1947, Serial No. 744,840
6 Claims. (Cl. 5—354)



1. A pliable sheet or the like article of plasticized polyvinyl chloride-acetate or the like elastic thermoplastic having a plurality of perforations adjacent the margin thereof, a like plurality of plasticized polyvinyl chloride-acetate or the like thermoplastic grommets each surrounding a corresponding perforations, said grommets being autogenously secured to said sheet, the edges of said sheet being reinforced with a multi-ply plastic margin, and a stitching of thread through said reinforced margin, said thread consisting of any long-chain synthetic polymeric amide which has recurring amide groups as an integral part of the main polymer chain, and which is capable of being formed into a filament in which the structural elements are oriented in the direction of the axis.

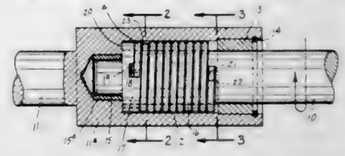
2,533,972
TOWING DEVICE
Ralph F. Symonds, Marblehead, and Magnus Magnusson, Winchester, Mass.
Application August 10, 1946, Serial No. 689,708
4 Claims. (Cl. 114—235)



1. In a system for securing a tow line to a ship including a winch controlling a messenger line running through a pair of chocks and carrying a messenger hook for grasping the tow line, the combination of a support secured adjacent the chocks and on the rail of the ship, a yoke mounted on said support for pivotal movement from a position slightly below horizontal and facing outboard to a substantially upright position, and means for securing said yoke in upright position, the support and yoke being so constructed and arranged that the winch may pull said messenger line and messenger hook inboard until the tow line enters the yoke, whereupon a further pull upon the messenger line by the winch will automatically cause the tow line to rock the yoke to vertical position.

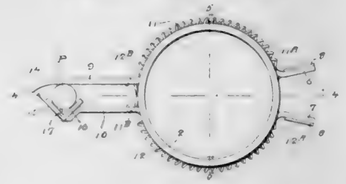
2,533,973
TORQUE LIMITING DEVICE
William Carleton Starkey, Indianapolis, Ind., assignor to Fletcher Trust Company, trustee, Indianapolis, Ind., a corporation
Original application November 1, 1943, Serial No. 508,601, now Patent No. 2,459,972, dated January 25, 1949. Divided and this application July 12, 1947, Serial No. 760,669
19 Claims. (Cl. 64—30)

19. A torque limiting spring clutch, comprising a rotary clutch drum, a coaxial rotary member, a helical clutch spring one end of which is operatively connected to said rotary member in a manner to cause the spring to turn always with the rotary member in one direction, the spring having a series of coils at the opposite end in frictional clutching normal-torque-transmitting engagement with the drum, the terminal coil at that end of the spring being free and having a deenergizing shoulder whereby the coils of said series may be progressively withdrawn from clutching engagement with the drum to enable the clutch to reject an overload, the spring having a maximum-load-carrying clutching coil por-



tion and a non-clutching torque sensitive coil portion both located between said series of coils and the connected first mentioned end of the spring, said two coil portions being operative conjointly, one by slippage on the drum and one by resistance to deflection under torque to enable relative angular movement between the rotary member and the drum while engaged with said series of coils, and abutment means connected with said rotary member and engageable with said deenergizing shoulder in a manner to cause said progressive withdrawal of coils of said series out of clutching engagement with the drum.

2,533,974
SUPPORT CLAMP
Fred Szabo, Corona, Calif.
Application August 12, 1947, Serial No. 768,111
2 Claims. (Cl. 248—226)

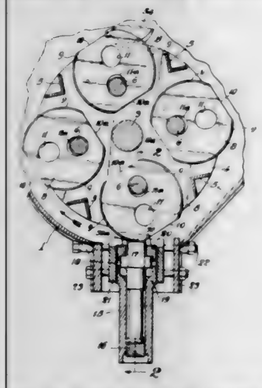


1. In a support clamp, the combination with a circular ring-like base having an exterior inset annular groove, a pair of diametrically arranged segmental arms channel shape in cross section and slidable in the groove, a pair of clamp jaws rigid with said arms, and a pair of opposed helical springs seated in the segmental arms, each of said springs connecting one arm with another arm for automatically closing the jaws, and means for opening the jaws.

2,533,975
HAMMER
Henry H. Talboys and Helmer E. Erickson, Milwaukee, Wis., assignors to Nordberg Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 15, 1946, Serial No. 662,173
5 Claims. (Cl. 125—33)

1. In a power hammer assembly, a hammer housing, a hammer rotor mounted in said housing for rotation about an axis predetermined in relation to the housing, a hammer loosely pivoted

to the rotor for oscillation about a pivot eccentric to the axis of the rotor, said hammer having a generally arcuate impacting surface, the pivotal connection of the hammer with the rotor being substantially eccentric in relation to the impacting surface of the hammer whereby, in response to centrifugal force the center of mass of the hammer, when the rotor is rotated, is located substantially radially outwardly beyond the pivotal connection between hammer and rotor, a guiding sleeve secured to said housing, and extending outwardly from the path of



the hammer, an anvil movably mounted in said guiding sleeve, means for limiting said anvil to an excursion of predetermined length toward and away from the path of the hammer, said anvil having a surface which lies, when the anvil is at its closest approach to the path of the hammer, in position to receive a glancing blow from that part of the hammer most remote from the axis of rotation of the rotor, said hammer being loosely pivoted on the rotor and being thereby adapted both to swing and to recede against centrifugal force, in response to the glancing impact of the hammer against the anvil.

2,533,976

LEATHER-LIKE MATERIAL

Merwyn C. Teague, Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application March 1, 1945, Serial No. 580,405

2 Claims. (Cl. 154—48)

1. A leather-like, multi-ply shoe upper material having elastic properties and a textile inner face and plastic outer face, and formed of two fabrics bonded together by a layer of rubber lying therebetween and which normally holds both fabrics in a condensed condition so that these fabrics will stretch between 8 and 25% in one direction and less than 5% transversely to such direction, at least one of said fabrics being knitted and having firmly adhered to its condensed outer surface a stretchable tough layer of a heat softening vinyl resin that is about .02" thick, to thereby provide a flexible and stretchable composite sheet material that will give good wear without scuffing, sagging or cracking and without needle cutting when embodied in the upper part of a shoe.

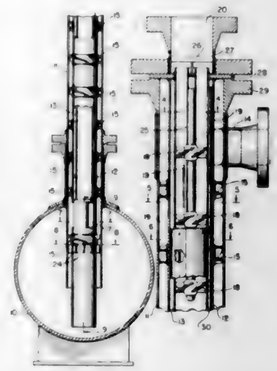
2,533,977

SEPARATOR

Edward M. Van Dornick, Buena Vista, Calif., assignor to Arabian American Oil Company, New York, N. Y., a corporation of Delaware

Application November 12, 1949, Serial No. 126,734

4 Claims. (Cl. 183—2.7)



1. A gas-crude oil separator comprising a drum, means for maintaining a liquid level in the drum, a vertical tube opening into the drum below the normal liquid level, a second vertical tube extending through the first and a third vertical tube extending through the second, a connection for introducing gas-crude oil mixtures into the upper end of the annular space between the first and second tubes, a series of vanes in this first annular space for imparting a rotary motion to fluids moving downwardly therethrough, a partition closing the lower end of the third tube, passages extending across the annular space between the second and third tubes opening into the inner boundary of the lower part of the first annular space connecting the lower part of the first annular space with the lower part of the space within the third tube above the partition and above the normal liquid level in the drum, another series of vanes in the space within the third tube for imparting a rotary motion to fluids moving upwardly therethrough, passages through the second annular space opening into the peripheral boundary of the upper part of the space within the third tube and into the drum below the normal liquid level, a connection for discharging gas from the upper end of the third tube and a connection for discharging oil from the drum.

2,533,978

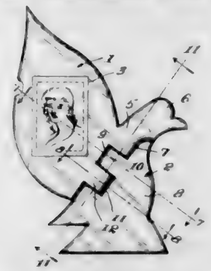
HINGED PICTURE FRAME

Guillermo Malaya Versosa, Brooklyn, N. Y.

Application September 26, 1946, Serial No. 699,573

4 Claims. (Cl. 40—152)

4. In a picture frame formed out of a single block of material and simulating a bird, said frame including two parts hinged together by a hinge having no hinge pins, a first part and a second part, each of said parts being formed with a forward section and a rearward section, each of said forward sections being provided with a pocket for the reception of a picture, each of said parts being formed with a slot, rounded hinge members formed on said parts and positioned in said slots, one above the other, in such a manner that said parts interlock and fold parallel to each other, and an ornamental head formed on one of said parts, said ornamental head forming the



simulated head of a bird, while the rearward sections of said parts simulate the wings of said bird.

2,533,979

CUTTING PLATE OF DRY-SHAVING APPARATUS

Wilhelmus L. Leonardus Vivie, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

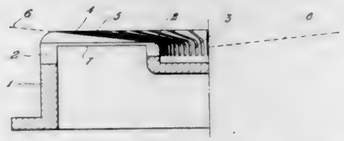
Application July 3, 1946, Serial No. 681,344

In the Netherlands July 23, 1943

Section 1, Public Law 690, August 8, 1946

Patent expires July 23, 1963

3 Claims. (Cl. 30—43)



1. A cutting plate member for dry shaving apparatus, comprising a plurality of rib portions substantially radially arranged about a central axis and interconnected at their peripheral and central portions, each of said rib portions having an inner flat cutting surface, having lateral face surfaces extending from the said cutting surface substantially perpendicular to the cutting surface, and having outer surfaces extending from said lateral surfaces to form an obtuse angle, said rib portions having a thickness as measured from the apex of the said obtuse angle to the cutting surface greater at the said peripheral portion of the rib portion than at the said central portion thereof.

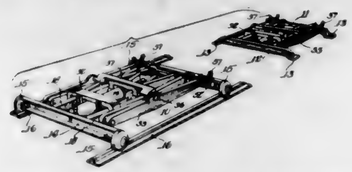
2,533,980

LIFTING AND LOWERING APPLIANCE

Ira A. Weaver, Springfield, Ill., assignor to Weaver Engineering Co., a corporation of Illinois

Application January 4, 1946, Serial No. 639,072

3 Claims. (Cl. 254—89)



1. A load lifting-and-lowering apparatus having in combination a base-frame with spaced-apart side-members, a load-support, a pair of transversely registered linkages between and connected to said base and to said load-support, each such linkage including a pair of lower links and a pair of upper links connected therewith, and means to expand or to contract said linkages simultaneously to raise or to lower said load-support, including a lever fulcrumed on said base, and power-means to rock said lever, the novel improvement that said lever is a duplex-lever and fulcrumed near one end of said base, that said lever rocking-means is a combined hydraulic-cylinder, piston and piston-rod hinged on and near the opposite end of said base with its piston-rod hinged to said lever between its two arms, that said lever has rollers thereon, that a corresponding link of each of the two sets of upper links are integral with one another, and that, in the collapsed nested condition of the apparatus said cylinder, piston and piston-rod are accommodated at least in part between the arms of said lever, that said rollers are beneath said two integral links to coact therewith to produce the initial portion of the elevation of said load-support and that all of said links nest at least in part in approximately the same horizontal plane as said base.

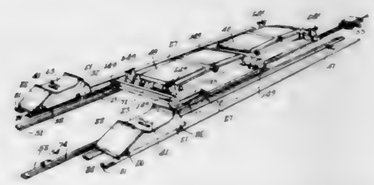
2,533,981

RAMP CARRIAGE AND LOCATING MEANS FOR VEHICLE LIFTING DEVICES

Ira Adelbert Weaver, Springfield, Ill., assignor to Weaver Engineering Co., Springfield, Ill., a corporation of Illinois

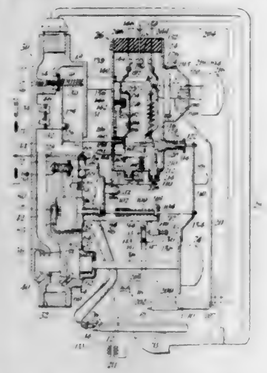
Application December 29, 1948, Serial No. 67,853

12 Claims. (Cl. 254—89)



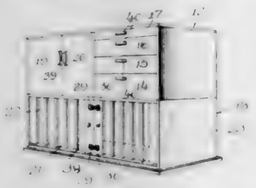
1. For use with a power-actuated fixedly located vehicle lifting-and-lowering appliance, the combination of track-means fixedly positioned at opposite sides of said appliance, a pair of ramp-carriages having supporting wheels thereon adapted to roll on said track-means toward and from said appliance, each said ramp-carriage having an upwardly inclined top terminal surface up which carriages two corresponding wheels of the vehicle are adapted to ascend simultaneously, each such carriage at the top of its said inclined surface having a vehicle-wheel elevated chuck forming part of the ramp-carriage and into which chuck the corresponding vehicle-wheel is delivered from the top end of said inclined surface, means to automatically lock said ramp-carriages in transverse register with one another against forward travel on said track-means during the ascent of the vehicle-wheels on said inclined surfaces, means to automatically unlock said ramp-carriages after the ascent of the vehicle-wheels has been completed and the vehicle-wheels have entered their corresponding chucks, and means to automatically stop travel on said track-means of the two ramp-carriages and their loads when they have traveled a predetermined distance to be in proper register with said lifting-and-lowering appliance for the lifting of the vehicle by said lifting-and-lowering appliance.

2,533,982
THERMOSTATIC CONTROL DEVICE FOR GAS-BURNING APPLIANCES
Victor Weber, Greensburg, and Russell F. Garner, Youngwood, Pa., assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa., a corporation of Delaware
Application June 26, 1948, Serial No. 35,306
10 Claims. (Cl. 158—117.1)



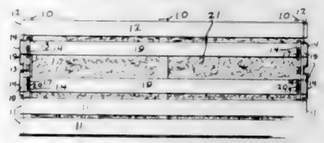
7. A control apparatus for fuel burners, comprising in combination, a control device operable between positions for controlling the supply of fuel to be burned, means for biasing said control device to prevent said fuel supply, actuating means operable for overcoming said biasing means and causing movement of said control device to a fuel supply position, a latching element biased to latching engagement with said actuating means and being movable against said bias to a released position, a tripping device movable into operative engagement with said latching element for releasing the same, and means for holding said tripping device out of the path of movement of said latching element during normal operation of said control device between said controlling positions, said last means including an element responsive to an abnormal condition caused by the burning fuel for rendering said holding means inoperative.

2,533,983
COMBINATION SEPARABLE CRIB FRAME AND CHEST OF DRAWERS STRUCTURE
Francis H. Weigle, Chicago, and Bernard Yuffy, Oak Park, Ill.
Application April 9, 1948, Serial No. 20,124
2 Claims. (Cl. 5—2)



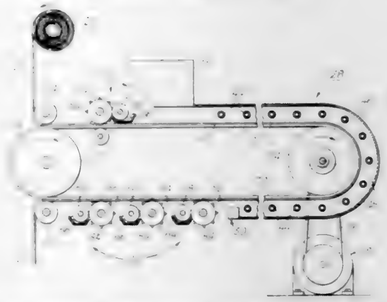
1. In a combination separable crib and chest of drawers structure, a base element, a crib frame supported on the base element, tenons on the lower face of the crib frame, mortises in the upper face of the base element receiving the tenons, one side of said frame comprising laterally opening gates, a chest of drawers supported on the crib frame, tenons on the lower face of the chest of drawers, mortises in the upper face of the crib frame receiving the tenons on the chest of drawers, said tenons and mortises being respectively corresponding and interchangeable on the base element and crib frame and on the crib frame and chest of drawers whereby the base element may support the crib frame directly and the chest of drawers indirectly through the intermediation of the crib frame, or the chest of drawers directly and the crib frame indirectly through the intermediation of the chest of drawers, said gates being openable and closable in either arrangement for access to the interior of the crib frame.

2,533,984
ADJUSTABLE HAY FEED RACK
Ira Anson, Sioux City, Iowa
Application August 23, 1946, Serial No. 692,523
1 Claim. (Cl. 119—60)



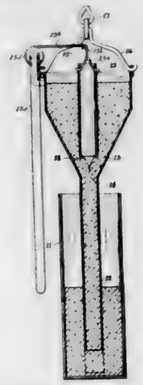
A hay feed rack including vertically positioned supporting end posts, a pair of horizontally positioned boards attached to said supporting posts, means for spacing said boards a desired distance apart including substantially U-shaped brackets for each board end attached to said supporting posts, the ends of said boards being received within said brackets, said brackets having vertically positioned slots therein, bolts attached to said boards received in said slots, said brackets being of sufficient length in comparison to the width of said boards whereby said boards can be adjustably positioned to provide desired spacing between the boards, means for securing said bolts to said brackets including nuts attached thereto.

2,533,985
PROCESS FOR MULTICOLOR PRINTING ON FLOCKED AREA OF FABRIC
Joseph Aronstein and Mitchell Aronstein, New York, N. Y., and Joseph A. Solomon, Hampton, Va.
Application September 12, 1947, Serial No. 773,656
1 Claim. (Cl. 117—13)



The process of printing with standard inks or dyes on nonfirm flocked materials in such a way as to form accurate and intricate designs having color ranges limited only by the colors of the inks and dyes obtainable which process includes the steps of: adhering the unflocked fabric in face-to-face relationship with a firm backing provided with an adhesive outer surface, applying an adhesive to the working surface of the fabric according to the design to be flocked, applying the flock to the adhesive-coated areas on the fabric, removing any excess flock, fixing and drying the adhesive to set the flock permanently on the fabric, running the fabric and backing through a multicolor printing unit synchronized to print on the flocked areas of the fabric, and separating the fabric from the backing.

2,533,986
APPARATUS AND METHOD FOR FILLING MOLDS
Grosvenor Atterbury, New York, N. Y., assignor to Precast Building Sections, Inc., New York, N. Y., a corporation of New York
Application September 22, 1944, Serial No. 555,250
2 Claims. (Cl. 25—1)



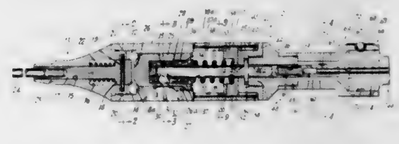
2. Apparatus for feeding a plastic fluent cement mix into an open-topped mold, said apparatus comprising a vertical hopper having a funnel bottom with an outlet from which a tube depends for insertion to the bottom of said mold, and a stopper having a lower end for closing said outlet and a long body reaching from said outlet vertically upwardly to above the contents level of said hopper, said stopper being vertically suspended in said hopper over and in alignment with said outlet, by a raising and lowering device, and having a passage extending from the center of its bottom end upwardly and exhausting above the contents level of said hopper, said tube being attached to said hopper so the two form a unit and said hopper having a controllable raising and lowering system including a material-actuated controller positioned on said tube closely adjacent its outside and spaced from its bottom end a distance effecting its actuation by said material only when the bottom end of said tube is immersed in said mix enough to prevent said mix flowing from said tube's bottom end upwardly so as to build up around said tube's outside.

2,533,987
DOUBLE-ENDED TERMINAL
Gustave F. Bahr, Fairfield, Conn., assignor to The Bead Chain Manufacturing Co., Bridgeport, Conn., a corporation of Connecticut
Application August 1, 1946, Serial No. 687,554
1 Claim. (Cl. 173—361)

A double ended tubular electrical terminal comprising two tubular portions adapted to project beyond opposite sides of a support, one portion projecting through and being adapted to be secured to the support on both sides by integral parts, in combination with a reduced cylindrical

part in the other tubular portion press-fitted into the first tubular portion, said two tubular portions being of substantially the same diameter, and terminal enlargements on said two tubular portions.

2,533,988
PRECISION HAMMER
Alfred A. Bamberger, Flushing, N. Y., assignor to Speedo Manufacturing Co., Inc., New York, N. Y.
Application April 22, 1947, Serial No. 743,086
3 Claims. (Cl. 125—33)



1. An instrument comprising a casing having an internally threaded front end portion, a housing in front of said casing and having its rear portion screwed into the front end of the casing, said housing being formed with a longitudinal bore having its rear portion enlarged and forming a recess, the rear portion of the wall of said recess being formed with oppositely disposed openings, a tool carrier slidable longitudinally through the bore and having a head at its rear end fitting snugly in said recess and formed with a transverse opening aligned with the opposed openings of the housing, a spring in said recess coiled about said tool holder and acting upon the head to urge the tool holder rearwardly, a pin passing through the opening in the head with end portions projecting therefrom and loosely fitting into the opposed openings of the housing and limiting the longitudinal movement of said tool holder, a plunger slidable longitudinally in said casing back of said tool holder and formed with a pocket leading from its rear end, a rotatable shaft extending longitudinally in said casing axially thereof with its front end extending into said pocket, a cam surrounding the front end of said shaft and turning therewith in the pocket, a bushing arranged in said pocket and loosely surrounding said shaft and having its front end engaged by said cam for intermittently shifting the plunger rearwardly during the rotation of the shaft, a collar surrounding said shaft and secured in said casing and spaced rearwardly from said plunger, a spring in said casing surrounding said shaft between the collar and the plunger and serving to drive the plunger forwardly into striking contact with the tool holder between rearward movements of the plunger by the action of said cam, and means for connecting the rear end of the shaft with a rotary drive shaft.

2,533,989

ANTIOXIDANTS FOR GREASES AND SIMILAR MATERIALS

Alan Beerbower, Baltimore, Md., and John C. Zimmer, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 30, 1947, Serial No. 771,562
7 Claims. (Cl. 252—40)

1. A lubricating grease composition consisting essentially of mineral oil and soap to which is added 0.5 to 3% of phenyl-alpha-naphthylamine, and 0.5 to 3% of a resinous composition having the general compositional formula:

$$(R—Ar(OH)—CH_2—)_nX$$

where R is an alkyl radical having 4 to 12 carbon atoms, Ar is a benzene nucleus, X is a nitrogen base radical in which the nitrogen is linked to the aromatic nucleus through the $—CH_2—$ group, and n is an integer of 1 to 3.

2,533,990

SILVER HALIDE DEVELOPER COMPOSITIONS CONTAINING POLYOXYALKYLENE ETHERS OF HEXITOL RING DEHYDRATION PRODUCTS

Ralph Kingsley Blake, Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 10, 1947, Serial No. 753,820
9 Claims. (Cl. 95—88)

1. The process of developing a silver halide image with a developer solution containing a photographic silver halide developing agent and from 0.1 to 2.5 grams of a polyoxyalkylene ether of a hexitol ring dehydration product per liter of solution.

2,533,991

DUST EXTRACTING DEVICE

Uno Olof Blomquist, Vasteras, and Sven Werner Wallin, Jonkoping, Sweden, assignors to A. B. Svenska Flaktfabriken, Stockholm, Sweden

Application November 10, 1948, Serial No. 59,242
In Sweden September 4, 1948
10 Claims. (Cl. 183—81)

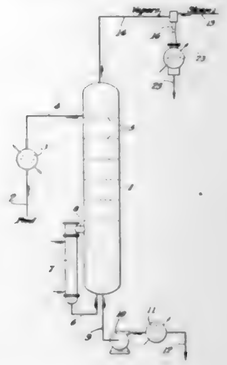
1. In dust extracting apparatus of the type adapted to be built into a channel and comprising a plurality of cyclone devices each having an inlet and an outlet, a wall structure including portions defining a continuous channel for the passage of a medium to be purified and a continuous chamber extending parallel to and adjacent said channel to receive the material extracted from said medium, said channel having a plurality of outlet openings for the medium at predetermined intervals longitudinally therein and said chamber having a plurality of inlet openings thereto spaced longitudinally of the chamber and corresponding in number to said channel outlet openings, and said cyclones being disposed in alignment outwardly adjacent the wall structure and each cyclone having its inlet connected to one of said channel outlet openings and its outlet connected to the corresponding inlet opening of said chamber.

2,533,992

AMMONIA RECOVERY UNIT

Austin S. Brunjes, Plandome, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application September 26, 1947, Serial No. 776,377
2 Claims. (Cl. 202—52)



1. A method of purifying a heat sensitive material in a relatively dilute aqueous ammonia solution which comprises distilling said solution under sub-atmospheric conditions developed by a steam jet such that a relatively concentrated aqueous ammonia solution free of the heat sensitive material and containing about 80% ammonia is removed overhead and a relatively concentrated heat sensitive material in ammonia solution is removed as bottoms product, directly injecting vacuum producing steam into said concentrated aqueous ammonia overhead in excess of that required to produce the desired vacuum to reduce the ammonia concentration to about 25% with a dew point above that of cooling water and condensing said reduced concentration overhead by indirect heat exchange with cooling water.

2,533,993

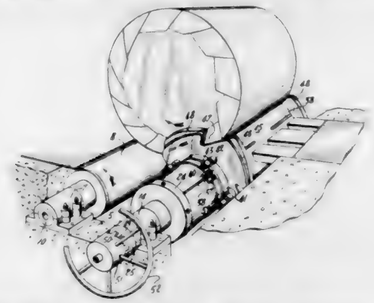
ROLL CRIMPING MACHINE

Harry Christopher Bryans, Three Rivers, Quebec, Canada, assignor to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of Canada

Application November 8, 1949, Serial No. 126,171
6 Claims. (Cl. 93—5)

1. A machine for crimping the projecting ends of wrapping material over the ends of a roll of paper covered thereby comprising a pair of carrier rolls for supporting a wrapped roll of paper, means for positively driving said rolls in the same direction, one of said rolls being provided with

spaced sets of radially-extending crimping elements movably mounted thereon, and means for



positively adjusting the spacing between said sets of crimping elements.

2,533,994

THERMOSETTING ADHESIVE COMPOSITION AND LAMINATE

Henry M. Cadot, Greenville, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 30, 1944, Serial No. 570,753
2 Claims. (Cl. 154—45.9)

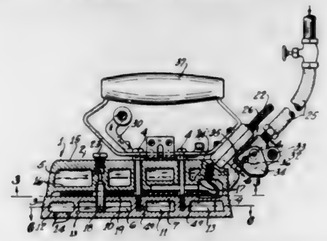
1. Hot-pressed plywood glued with an adhesive comprising a methoxymethoxyethyl carbamate-modified melamine-formaldehyde condensation product.

2,533,995

STEAM ELECTRIC PRESSING IRON

Chester M. Chapin, St. Louis, Mo.

Application June 5, 1946, Serial No. 674,476
2 Claims. (Cl. 38—77)



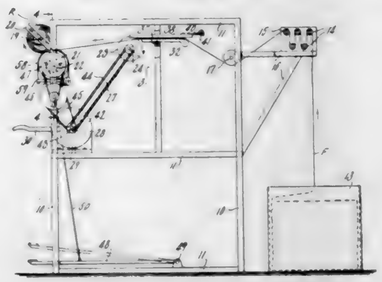
1. A steaming iron comprising a hollow lower member the entire bottom wall of which forms a sole plate, and a hollow upper member secured thereto with the lower face of the upper member adjacent the upper face of the lower member, said lower member having a vertical wall therein providing distributing and intermediate chambers which are at substantially the same level, the interior of the upper member comprising a primary chamber, the primary chamber overlying the distributing and intermediate chambers with each chamber extending substantially the entire length of the respective members, a heating element confined between those chambers which are at different levels and extending substantially from end to end of the members, a steam inlet at one end of said primary chamber, a steam outlet adjacent the opposite end of the primary chamber, a passage through said members from said outlet to one end of the intermediate chamber, an outlet from the opposite end of said intermediate chamber to one end of said distributing chamber, and discharge outlets spaced along the length of said distributing chamber and leading therefrom through the sole plate to the work.

2,533,996

FABRIC SLITTING MACHINE

Robert J. Clarkson, Winnsboro, S. C., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application November 7, 1947, Serial No. 784,623
6 Claims. (Cl. 164—65)



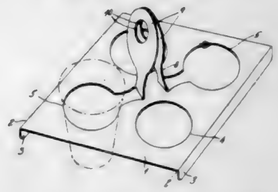
1. A slitting machine for cutting a stretchable elastic fabric longitudinally along a slightly defined row without stretching the fabric appreciably, which comprises take-up means for drawing the fabric forward from a source of supply, a cutter for cutting the advancing fabric, and means for detecting and following the slightly defined row comprising a flexible detector blade positioned closely adjacent to and in front of the cutter and in alignment therewith and adapted to engage and slide along a face of the fabric in such row and to bend with bends in the row to follow the row and guide it to the cutter.

2,533,997

CUP-CARRYING TRAY

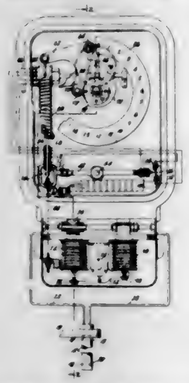
Louis W. Cochrane, Matawan, N. J., assignor to United Board & Carton Corporation, New York, N. Y., a corporation of New Jersey

Application August 23, 1948, Serial No. 45,697
3 Claims. (Cl. 224—48)



1. A cup-carrying tray comprising a sheet of material having a pair of opposed spaced cuts diametrically disposed with reference to the center of the sheet, each comprising an outer portion forming an incomplete circle greater than a half-circle and a pair of legs extending generally toward the center of the sheet from the ends of said outer portion to points spaced from the center of the sheet to form a cup-receiving aperture and a tray-carrying tab adapted to be raised to tray-carrying position to a position centrally of the sheet and in face-to-face relationship with the other tab.

2,533,998
SHIP'S LOG
Edward S. Cole, Upper Montclair, N. J., assignor to Pitometer Log Corporation, New York, N. Y., a corporation of New York
Application December 16, 1946, Serial No. 716,451
8 Claims. (Cl. 73—182)

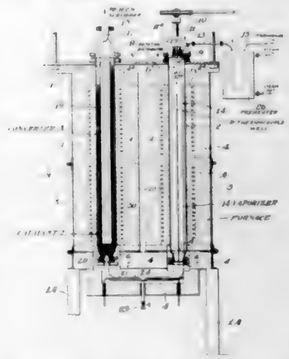


1. In a device of the class described, a balance lever, means for applying a turning moment to said lever, a cam having a contour divided into a plurality of sections, successive sections having progressively smaller rates of rise, a follower for said cam, spring means between said follower and said lever arranged to be stressed by displacement of the follower to apply a balancing moment to the lever, said spring means including a plurality of springs equal in number to the number of sections of said cam, said springs being connected in series and of different strengths, means for limiting elongation of all but the strongest of said springs, regulating means operatively connecting said lever with said cam and responsive to movement of the lever for causing said spring means to balance the turning moment applied to the lever by the first mentioned means, and means actuated by said cam indicative of the value of said turning moment.

2,533,999
HARROW TRUCK
Ralph Colley, Tonica, Ill.
Application March 28, 1946, Serial No. 657,855
1 Claim. (Cl. 55—73)

In a harrow truck wherein is embodied an oblong rectangular frame for horizontally positioning over a harrow, and including legs rigidly depending from the corners of the frame and caster wheels mounted in the lower ends of the legs, said frame including side and end members and a plurality of cross braces extending transversely in spaced relation between the side members of the frame, one of said cross braces being midway the ends of the frame, a primary elevator shaft journaled longitudinally and centrally over the upper side of the frame and cross braces thereof and through bearing loops secured to the upper sides of the said cross braces and end members of the frame, a spur gear keyed upon the primary elevator shaft alongside the midway cross brace of the frame, a secondary elevator shaft journaled transversely through the frame immediately below the spur gear of the primary shaft, a worm gear keyed upon the secondary shaft and in mesh with the spur gear of the primary shaft, means for rotating the secondary elevator shaft, pairs of lifting chains anchored at their upper ends to the primary elevator shaft and immediately adjacent the said cross braces and end members of the frame, and hooks at the lower ends of said lifting chains for engaging a harrow located underneath the said frame, whereby rotation of the secondary elevator shaft will rotate the primary elevator shaft and wind the lifting chains upon the primary elevator shaft and lift the harrow from the ground for transporting same from place to place.

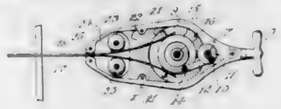
2,534,000
PROCESS FOR PRODUCING HYDROCYANIC ACID
Walter Coopey, Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 9, 1945, Serial No. 621,373
2 Claims. (Cl. 23—151)



1. In a process for the catalytic conversion of formamide to hydrocyanic acid, the steps which comprise preheating liquid formamide to a temperature between 135 and 140° C., forming the preheated liquid in the shape of a falling film of annular cross section, externally and internally heating the film while passing it downwardly through a zone of vaporization, vaporizing the liquid and superheating the resulting vapor while maintaining the annular shape of the fluids, passing the vapors immediately after being superheated, and without substantial loss of superheat, up and through a heated catalyst zone of annular cross section wherein the formamide is pyrolyzed to hydrocyanic acid in the presence of a manganese catalyst at a temperature between 400 and 650° C. and supplying heat to the reaction by heat flow into the zone through the outer and inner concentric boundaries thereof.

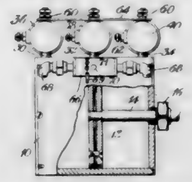
2,534,001
TWO-BLADE RECIPROCATING SAW DEVICE
Kibbey W. Couse, Newark, N. J.
Application December 7, 1945, Serial No. 633,341
6 Claims. (Cl. 143—68)

1. The combination of two separate saw blades, and means for holding said blades for simultaneous reciprocation in opposite directions with portions in close side-by-side relation, said means including a support having a guideway in which said blades are slidably mounted and from which said blades project at both ends, and an element on said support beyond one end of said guideway and interposed between and in contact with said



blades at one end thereof to flex one end portion of one blade away from the corresponding end portion of the other blade and simultaneously force the other end portions of said blades toward each other into close substantially stiff and parallel relation to each other, whereby forces can be applied to said flexed end portions of the blades to reciprocate the blades.

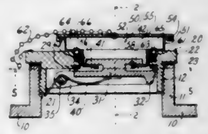
2,534,002
POWER UNIT FOR SHIFTING GEARS OF MARINE ENGINES
Gordon W. Crowell, Glen Ridge, N. J., assignor to Rosalie Willis, New York, N. Y.
Application April 19, 1946, Serial No. 663,430
1 Claim. (Cl. 121—38)



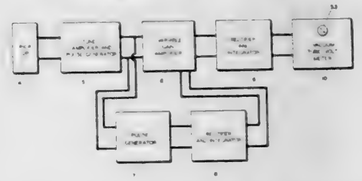
In a power apparatus for applying power by means of a cylinder and piston, the latter of which has a piston rod attached thereto for applying the power in either direction of its motion, a pipe having branch lines connecting into said cylinder at opposite ends and in its central portion, valves in said lines normally maintained in closed position, means for automatically opening a selected one of said valves for the application of suction to a predetermined portion of said cylinder, means for admitting air to said cylinder at the opposite ends thereof, said last mentioned means including pipes leading from opposite ends of said cylinder respectively into opposite ends of a cylindrical casing having a central port opening to the atmosphere, a spool-like member slidable in said casing including spaced cylindrical members, relatively small holes through said cylindrical members parallel to the axis thereof, and means for closing-off the holes in one of said members when the member moves toward the end of the casing adjacent thereto, said movement being adapted to permit the flow of air through the holes in the opposite member and through the adjacent pipe into the cylinder.

2,534,003
FILLERCAP MECHANISM
Merlyn M. Culver and Lyle L. Duncan, Dayton, Ohio
Application December 30, 1944, Serial No. 570,728
3 Claims. (Cl. 220—86)

1. A closure for cooling systems for engines in which a liquid cooling system is operable at considerable internal pressure, and having an inlet opening into such system, comprising a closure mechanism therefor having an opening, means to mount a gasket about said closure opening, means to close one side of the closure opening comprising a pivotally mounted spring pressed member, oppositely extending arms carried by said spring pressed member extending into said opening, said spring pressed member having a sealing face for cooperation with the gasket, means to close the other side of the closure opening comprising a member having a portion overlapping the edge of said opening and another portion having an elongated slot alignable with said oppositely extending arms to receive said arms, means to hold the slotted member in a selected position, and means to mount the closure member in the opening of the cooling system with the pivotally mounted spring pressed member normally urged to normal position and displaceable toward the interior of said cooling system for introducing fluid to the system.



2,534,004
DETONATION VOLTAGE MEASURING MEANS
Deslonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 20, 1945, Serial No. 611,643
15 Claims. (Cl. 73—35)



1. The method of indicating the average amplitude of a sequence of voltage pulses comprising the steps of transmitting the pulses in a plurality of channels, integrating the pulses in a first channel which resulting integral is a function of the product of the average amplitude and average frequency of occurrence of said pulses, creating a voltage in a second channel proportional to the average frequency of occurrence of, but independent of the amplitude of, said pulses, applying said integral to move the indicator of an indicating device, and applying said voltage from said second channel to control said indicating device to vary the sensitivity thereof inversely as a function of the frequency of said pulses, whereby the average amplitude of said pulses is indicated.

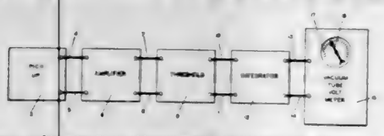
2,534,005
DETONATION METER
Deslonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 19, 1945, Serial No. 629,675
5 Claims. (Cl. 73—35)

1. In a detonation meter the combination comprising means producing electrical voltages in re-

sponse to pressure changes, a low pass filter tuned

ter portion and extending at each side thereof

sponse to pressure changes, a low pass filter tuned to pass selected frequency components of detonation, an amplifier, a threshold device comprising a vacuum tube having a grid, an adjustable negative grid bias resistor for said tube, said resistor



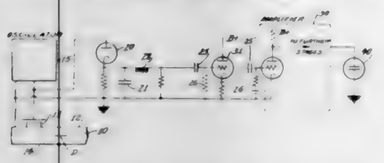
being adjusted so that said threshold device amplifies only detonation generated voltages above a predetermined value, a rectifier, an integrating circuit and a vacuum tube voltmeter all connected in series in the exact order set forth in this claim.

2,534,006

SUPERSONIC INSPECTION DEVICE

Ralph B. De Lano, Jr., New York, N. Y., and Everard M. Williams, Pittsburgh, Pa., assignors to Sperry Products, Inc., Hoboken, N. J., a corporation of New York

Application June 1, 1946, Serial No. 673,730
2 Claims. (Cl. 73—67)



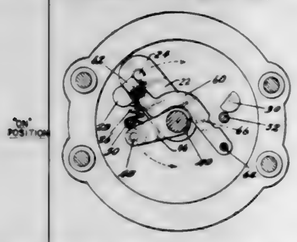
1. In a supersonic device for inspecting objects, means for generating supersonic waves, means for transmitting the waves into the obvelope of the received waves coming out of the ject and for receiving the waves coming out of the object, means for detecting the voltage enobject, a rate differentiator for said voltage envelope adapted to differentiate between normal rate of change of the voltage envelope when no defect is present in the object and the rate of change of the voltage envelope when a defect is present, an amplifier for amplifying the output of the rate differentiator, an indicator, and means whereby the output of said amplifier actuates said indicator.

2,534,007

SWITCH OPERATING MECHANISM WITH POSITIVE KICKOFF

Walter L. Dietrich, Hartford, Conn., assignor to Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut

Application November 4, 1948, Serial No. 58,176
7 Claims. (Cl. 200—67)



1. In an electric switch, a switch casing, a rotary spindle for operating switch contacts within said casing, an arm mounted on said spindle and turning therewith, an operating shaft in alignment with said spindle but spaced therefrom, an operating lever mounted on said shaft and turning therewith, an over-center spring having its end connected to said spindle arm and said operating lever and movable by said operating lever to cause movement of said switch spindle with a snap motion, a kick-off lever pivoted about a fixed pivot spaced from the spindle axis and engageable by said operating lever when the latter has partially moved from one position of rest to another, said kick-off lever engaging said spindle arm when the former has been engaged by said operating lever whereby to positively start said spindle rotating, said spring thereafter completing the rotation of said spindle from one switch position to another, cover means cooperating with said casing to enclose the aforesaid elements and having an opening for an end of said operating member, a removable member engageable with said operating member through said opening, and means associated with said removable member and said operating member to prevent removal of the former except when the spindle is in a certain position.

2,534,008

INSECTICIDAL PAPER-COATING COMPOSITIONS

George W. Fiero, Port Chester, N. Y., and Howard F. Seeland, Little Silver, and George H. Batt, Rahway, N. J., assignors, by mesne assignments, to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 10, 1947, Serial No. 760,106
1 Claim. (Cl. 106—15)

A non-alkaline insecticidal paper coating composition consisting by weight of

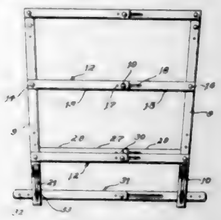
	Parts
Dichloro-diphenyl-trichloro ethane	20
Clay	19
Suspending and wetting agent	2.5
Octyl alcohol	0.2
Chlorinated starch solution	8.8
Water	50

2,534,009

ADJUSTABLE BACK REST

Stella R. Freasier, Phoenix, and Alfred W. Gressinger, Florence, Ariz.

Application November 15, 1946, Serial No. 709,996
2 Claims. (Cl. 155—182)



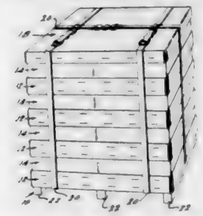
1. An adjustable back rest comprising a pair of straps having their upper portions bent to form hooks to engage over the back of a chair or seat, a second pair of straps having their lower portions reversely bent and adapted to be secured to the first mentioned straps, and a plurality of resilient strips supported by the second pair of straps providing a cushioned support for the back of the chair occupant.

2,534,010

RE-USABLE PALLET BIN

De Moine H. Frye, Detroit, Mich., assignor to Leslie T. Swallow, Detroit, Mich.

Application April 26, 1946, Serial No. 665,213
3 Claims. (Cl. 229—23)



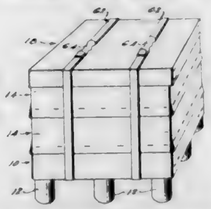
1. A shipping and storage bin comprising a rigid base member having a plurality of separate bottom and frame members of foldable fiberboard sheet material stacked thereon, the margin portions of each bottom member being bent along fold lines and the portions extending beyond said fold lines fashioned into two flat loops extending in a single plane with one loop on one side and the other loop on the other side of the bottom, the sides of each loop being fastened together and the loops forming relatively rigid flanges adapted to overlie and retain the members thereabove and therebelow, the flanges extending along each side of each bottom member being separate from flanges on adjacent sides thereof and adapted to be positioned at right angles to the bottom or folded flatly and compactly against the bottom, each frame member consisting of upright walls fastened together and adapted to fit snugly behind the flanges of the bottom members and to be collapsed compactly together.

2,534,011

RE-USABLE PALLET BIN

De Moine H. Frye, Detroit, Mich., assignor to Leslie T. Swallow

Application July 25, 1946, Serial No. 686,220
2 Claims. (Cl. 229—23)



1. As a subcombination, a collapsible shipping and storage carton fabricated from a single piece of foldable fiberboard sheet material, said material having a central portion forming a bottom and portions at the edges of said central portion forming sides, each of said sides joined to its respective edge of the bottom by a fold of the material, said folds extending below the bottom and separate from each other, said sides extending above the bottom and adjacent sides being fastened together.

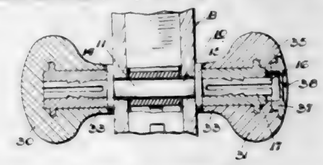
2,534,012

DOORKNOB

Edgar Courtney Gadpaille, New Orleans, La.

Application August 25, 1947, Serial No. 770,347
1 Claim. (Cl. 292—353)

A screwless knob assembly comprising in combination a latch spindle having a squared center portion and extending at each side thereof into bifurcated yieldable arms, a plurality of lugs formed on the top flat surfaces of the yieldable arms, and a knob, the knob having integrally united therewith a housing, said housing having lugs extended therefrom which are adapted to be embedded within the knob material, said housing having a longitudinal square opening extending therethrough, a plurality of lugs formed on



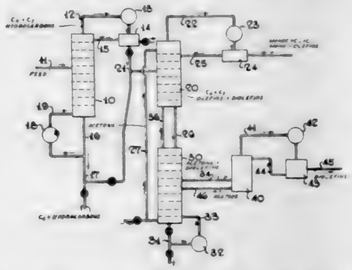
the upper and lower surfaces of the opening, the lugs on the knob housing engaging the lugs of the yieldable arms to lock the knob to the end of the spindle, the knob facing the inner side of the door having a removable screw cap fitting in the face thereof, whereby removal of said cap gives access to the yieldable arms to flex the same inwardly and disengage the knob and spindle lugs to remove the inside knob.

2,534,013

DISTILLING POLYMER-FORMING HYDROCARBONS AND REMOVING POLYMER FROM DISTILLATION EQUIPMENT

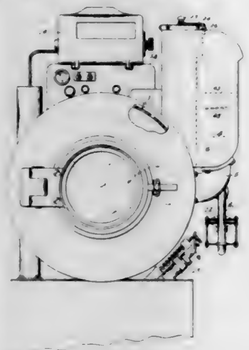
Bowman S. Garrett, Baton Rouge, La., assignor to The Standard Oil Development Company, a corporation of Delaware

Application June 28, 1945, Serial No. 602,120
5 Claims. (Cl. 196—94)



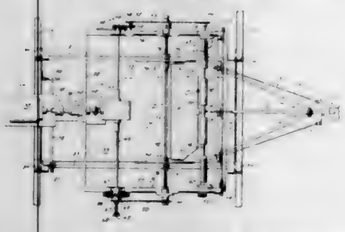
3. An improved method of removing polymer contamination from distillation equipment employed in the separation of C_4 and C_5 diolefins from a mixture thereof obtained by first fractionally distilling off C_4 and C_5 hydrocarbons from a cracked petroleum distillate boiling from 90° F. to 400° F. containing said C_4 and C_5 hydrocarbons with higher boiling hydrocarbons so as to leave a residue substantially free of the C_4 and C_5 hydrocarbons distilled from said cracked petroleum distillate, which comprises distilling off the C_4 and C_5 hydrocarbons from said mixture for a period during which polymer contamination accumulates in the distillation equipment wherein the C_4 and C_5 hydrocarbons are distilled, drawing off distillation condensates consisting of C_4 and C_5 hydrocarbons from the distillation equipment, then, during an interval prior to a subsequent distillation of C_4 and C_5 hydrocarbons from said mixture, passing through said equipment a portion of said residue from the cracked petroleum distillate which has been freed of the C_4 and C_5 hydrocarbons until an exit stream of said residual portion is substantially free of polymer content.

2,534,014
WASHING INGREDIENT DISPENSING MECHANISM FOR WASHING APPARATUS
Wallace F. Gayring, Minoa, and John Neuroth, Syracuse, N. Y., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 25, 1949, Serial No. 83,482
2 Claims. (Cl. 68—17)



1. An ingredient dispensing mechanism for laundry washing machines comprising a series of ingredient receptacles, a carriage movable along the series of receptacles, actuating mechanism biased to shift the carriage along the series of receptacles into successive register therewith, an escapement mechanism controlling the actuation of the carriage, and a flush water pipe having a nozzle carried by the carriage and arranged to discharge in the receptacles individually when the carriage is indexed by the escapement mechanism from one receptacle to another.

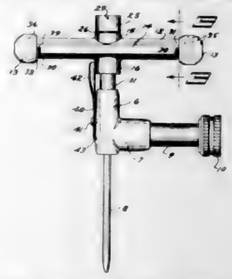
2,534,015
WIND-UP DEVICE FOR TUBULAR MATERIAL
Harry Gerstein, New York, and Ralph Kagan, Brooklyn, N. Y., assignors to Spiral Bagging Machine Corporation, New York, N. Y., a corporation of New York
Application April 13, 1948, Serial No. 20,638
14 Claims. (Cl. 112—63)



13. A wind-up device which includes a wind-up roll on which tubular material is to be wound, a main spreader within the tube, and an auxiliary spreader within the tube closely adjacent the wind-up roll.

2,534,016
LAWN SPRINKLER
Peter Grelson, Minneapolis, Minn.
Application July 20, 1949, Serial No. 105,738
2 Claims. (Cl. 299—70)

1. In a lawn sprinkler, a water conducting member having means for receiving a water supply, a nozzle member loosely screwthreaded on said water conducting member for selective turning adjustment to regulate the direction of water outlet therefrom, a lug on one of said members and a latch pin on the other member and co-



operating with the lug to limit said turning adjustment, and said latch pin being yieldably supported to allow manual depression clear of the lug for unthreading removal of the nozzle member from the water conducting member.

2,534,017
CATALYST RECOVERY PROCESS
William F. Gresham and William E. Grigsby, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 23, 1948, Serial No. 22,948
7 Claims. (Cl. 23—205)

1. In a process for separating hydrogen fluoride and boron trifluoride from a tolualdehyde-HF-BF_3 composition, the step which comprises evaporating hydrogen fluoride selectively from the said composition, whereby a residue comprising tolualdehyde and BF_3 is obtained, and thereafter separating boron trifluoride from the resulting mixture.

2,534,018
PREPARATION OF POLYFUNCTIONAL COMPOUNDS
William F. Gresham and Carl E. Schweitzer, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 11, 1949, Serial No. 109,802
7 Claims. (Cl. 260—449.6)

1. A process for the preparation of polyhydric alcohols and formate esters thereof which comprises reacting an oxide of carbon with hydrogen in the presence of a cobaltous fluoride catalyst in an aqueous or alcoholic medium at a temperature of 150° to 400° C. and a pressure above 1500 atmospheres and separating polyhydric alcohol and formate ester thereof from the resulting product.

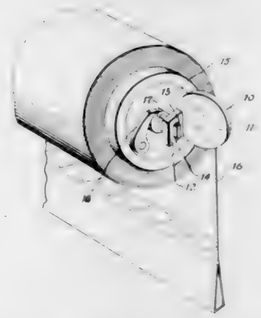
2,534,019
FOLDABLE FRAME FOR TRAMPOLINS, BEDS, OR THE LIKE
Laurence V. Griswold, Cedar Rapids, Iowa
Application April 5, 1946, Serial No. 659,914
10 Claims. (Cl. 5—111)

1. A foldable framework for a trampoline, bed or the like, comprising longitudinally extending side members, a leg frame and an end frame, each pivoted to said side members, adjacent the ends thereof, abutment means, carried by said

side members, and including a fixed portion, engageable with the end frame, for limiting its pivotal movement in one direction, and a movable

portion, movable into and out of the path of movement of the leg frame, for limiting the pivotal movement of said leg frame in the opposite direction.

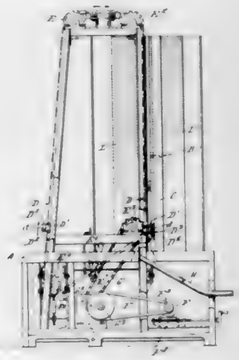
2,534,020
SHADE ROLLER WINDING DEVICE
Victor A. Hawkins, Brooklyn, N. Y.
Application January 22, 1946, Serial No. 642,759
1 Claim. (Cl. 81—3)



A device for operating the spring-winding pintle of a shade roller to effect a winding of the spring in said roller, comprising a disk-shaped body, and a fixed lug on the body and extending outward from one face adjacent the periphery thereof, said lug having a rectangular opening therethrough with opposite parallel inner faces, to engage said pintle, the length of the opening being parallel to the body.

2,534,021
HEATING APPARATUS FOR HEATING ENDS OF ELONGATED WORKPIECES IN A CONTINUOUS PROCESS
Frederic O. Hess, Philadelphia, and Fred Maud and Edwin F. Stoertz, North Hills, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application February 13, 1947, Serial No. 728,300
7 Claims. (Cl. 263—8)

1. Heat treating apparatus comprising structure providing a vertically extending refractory lined chamber having end openings at the top and bottom and a slotted side wall, conveyor means adjacent to said chamber for carrying and vertically transporting horizontally disposed elongated work pieces to be heated at an end thereof, said conveyor means being positioned with respect to said structure so that the ends of the work pieces to be heated project into the chamber through the slotted wall thereof during vertical transport and enter and leave the chamber through the end openings and scale formed on the ends of the work pieces during heating thereof will freely fall downwardly through the chamber and pass therefrom through the bottom and opening, means to drive said conveyor means in a direction to move said work pieces



downwardly through said chamber, and means for directly heating said chamber comprising opposed burners incorporated and distributed in the refractory lining thereof, on sides adjacent to the side of said chamber having said slot therein, the portion of the work pieces projecting into said chamber being in between the opposed burners, to heat the ends of the work pieces during transport through the chamber to an elevated temperature suitable for forging and like forming operations.

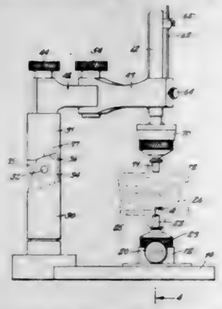
2,534,022
MANUFACTURE OF SALTS OF 2:1-HYDROXYNAPHTHOIC ACID
Eric B. Higgins, Tewin Wood, England, assignor to Tewin Industries Inc., county of New York, N. Y.
No Drawing. Application March 31, 1949, Serial No. 84,759. In Great Britain April 5, 1948
4 Claims. (Cl. 260—520)

1. A process for the production of disodium 2:1 hydroxynaphthoic acid substantially free from material containing free hydroxyl groups which comprises heating sodium beta naphtholate in a chemically inert liquid to a temperature of between 98° C. and 210° C. in the presence of carbon dioxide and at least an equivalent quantity of metallic sodium.

2,534,023
CENTRIC RELATOR
Sidney H. Hirschhorn, Paterson, N. J.
Application September 23, 1949, Serial No. 117,322
9 Claims. (Cl. 32—32)

1. A centric relator including a pedestal, a form support universally mounted on the pedestal, an elbowed column mounted on the pedestal having a vertically tiltable top, a horizontally elbowed arm horizontally pivoted upon the column, a rod

vertically and adjustably supported by the arm, a form support universally carried by the said rod,

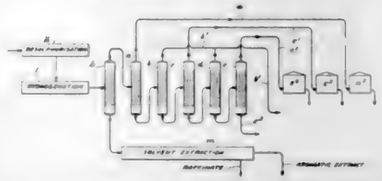


and means to fix each joint of said relator in selected position.

2,534,024
PANTY
Norman Hochbaum, New York, N. Y.
Application March 31, 1948, Serial No. 18,262
1 Claim. (Cl. 2—224)

An undergarment comprising front and rear sections gradually reduced in width towards their lower ends and joined at their lower ends by a narrow crotch portion, said sections having upwardly converging side edges merging at their lower ends into opposite side edges of the crotch portion and forming upwardly tapered leg openings extending from the crotch portion to a point spaced downwardly from the upper edge of opposite sides of the garment, the companion side edges of the front and rear sections intersecting at the said point, upper portions of the said side edges of the front and rear sections extending vertically above the leg openings and being sewed together in meeting relation to each other and forming straight seams extending vertically between upper ends of the leg openings and the upper edge of the garment, elastic bindings for edges of the leg openings, a strip of elastic fabric extending along the outer face of upper edge portions of the front and rear sections circumferentially of the garment and forming an elastic waist band for the garment stretchable circumferentially thereof, and reinforcements for side portions of the garment between the upper edge of the waist band and upper ends of the leg openings, said reinforcements being each of inverted and truncated triangular shape and sewed against outer faces of the front and rear sections with portions of the reinforcements extending forwardly and rearwardly from opposite sides of the seams connecting the front and rear sections above the leg openings, said reinforcements being formed of elastic fabric thicker than the elastic waist band and stretchable circumferentially of the garment.

2,534,025
PRODUCTION OF AVIATION OR MOTOR FUELS
Donald A. Howes and Thomas Tait, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application December 15, 1948, Serial No. 65,468
In Great Britain May 5, 1941
10 Claims. (Cl. 196—78)

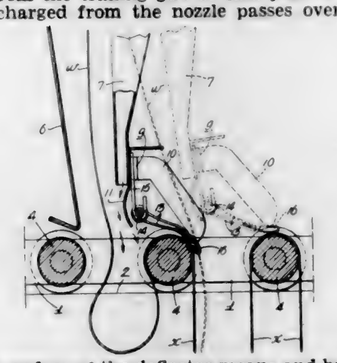


10. A process for the production of blending constituents of an aviation or motor fuel of high octane number from a substantially sulphur-free cracked petroleum distillate containing mono-olefines and diolefines comprising the steps of hydrogenating the feedstock for the conversion of the mono-olefine and diolefine content into corresponding paraffin and naphthene hydrocarbons by simple addition of hydrogen; subjecting the lighter portion of the hydrogenated product boiling up to about 100° C. to fractionation for the separation therefrom of at least one normal fraction, namely normal heptane together with the content of said lighter portion boiling beyond about 92° C. and for the recovery from said lighter portion of at least one fraction of high octane number, namely a fraction having an approximate boiling range of about 72° C. to about 92° C. comprising the content of cyclic hydrocarbons and branched chain hydrocarbons boiling in that range to the exclusion of any substantial proportion of 2-methyl hexane, 3-methyl hexane, 3-ethyl pentane and normal heptane, the fractionation being carried out under conditions of precision in the maintenance of determined top and bottom temperatures and pressure, in the use of columns having the equivalent of a moderately large number of theoretical plates not substantially less than 50 theoretical plates, and a high reflux ratio, in general not substantially less than 15:1.

2,534,026
WEB LOOPING DEVICE FOR FESTOON TYPE DRIERS
Frederick E. Hurxthal, Glenside, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application July 29, 1947, Serial No. 764,437
3 Claims. (Cl. 271—2.2)

1. In apparatus for forming a web of material into a series of festoons over relatively spaced girts of a supporting conveyor, means above the conveyor for feeding the web between an adjacently disposed pair of said girts to form a festoon therebetween as the conveyor advances, a nozzle pivotally mounted forwardly adjacent said means for swinging movement in the plane of travel of the conveyor and arranged to discharge air under pressure at the forward side only of said web and downwardly between said adjacently disposed pair of girts to assist in the formation of the festoon of the web, intercooperating means on said nozzle and conveyor operable to cause said nozzle to advance with said conveyor a limited portion of the travel thereof so that air

discharged from the nozzle is directed properly between said pair of girts during formation of the festoon as the conveyor advances, deflector means associated with the discharge end of said nozzle comprising a member presenting a curved surface to the discharged air and having its free edge spaced from the advance girt and directed away from the trailing girt of said pair so that air discharged from the nozzle passes over the



curved surface of the deflector means and beyond the free edge thereof and discharges through the space between said free edge and said advance girt forwardly and away from said trailing girt to draw the web forwardly away from said trailing girt to prevent fouling of the web thereon during formation of the festoon between said pair of girts, and means operable to hold the web on the advance girt of said pair during the formation of the festoon between said pair of girts.

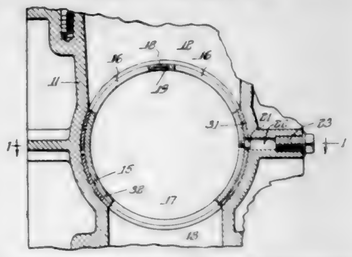
2,534,027
FISHING ROD HANDLE
Karl W. Irvan, Detroit, Mich., assignor to Orchard Industries, Inc., Detroit, Mich., a corporation of Michigan
Application January 14, 1949, Serial No. 70,863
2 Claims. (Cl. 43—23)

1. A fishing rod handle having a front grip, a hollow tubular rear grip and an intermediate offset reel seat portion, said handle being formed as a unitary molded element of plastic material, said reel seat portion having a metal reinforcing core element embedded therein and provided with upwardly extending legs projecting from points adjacent the ends of the reel seat portion to points adjacent the inner ends of said grip portions, and a rearwardly facing cup-shaped member fixed with respect to the end of the rear leg of said element and communicating at its inner surface with the interior space within the rear grip.

2,534,028
PRODUCTION OF POLYETHYLENE TEREPHTHALATE
Emmette Farr Izard, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 13, 1948, Serial No. 26,915
2 Claims. (Cl. 260—75)

1. A process for producing fiber-forming polyethylene terephthalate which comprises reacting ethylene glycol and dimethyl terephthalate in the presence of a catalytic amount of litharge at a temperature of from 140° to 220° C. until no further methanol is liberated, and thereafter continuing reaction in the presence of said litharge at a temperature of from 230° to 290° C., and at a pressure of from 0.1–20 millimeters of mercury until a fiber-forming linear polyester is formed which has an intrinsic viscosity of at least 0.8 and contains not over 3.0 mol per cent of diethylene glycol in the polymer chain.

2,534,029
INTERNAL-COMBUSTION ENGINE PORTED SEALING-RING POSITIONING MEANS
Walter Kasten, Franklin, Mich., assignor to Skinner Motors, Inc. (Delaware), Detroit, Mich., a corporation of Delaware
Application February 18, 1948, Serial No. 9,184
1 Claim. (Cl. 123—75)

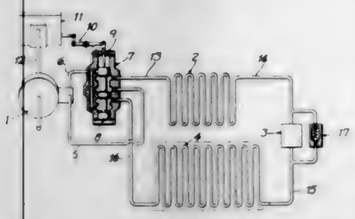


In a slide-valve internal-combustion engine including an engine block having a cylinder formed with inlet and exhaust ports, a sealing ring in and spaced from the wall of the cylinder, said ring having split inner and outer overlapping ends and openings in register with said inlet and exhaust ports, a pair of reciprocable slide valves interposed between the wall of the cylinder and said sealing ring for controlling said inlet and exhaust ports, a stud on the ring adjacent the inner overlapping end thereof for preventing the ring from turning angularly in the cylinder, the improvement comprising a through passage in an outside wall of the engine block extending from the cylinder between adjacent longitudinal edges of the slide valves and receiving said stud, and a removable plug in and sealing the outer end of the passage, whereby said stud interengages with the passage to hold the ring angularly position within the cylinder and whereby removal of the plug permits ready access to be had to the stud from exteriorly of the block to disengage the overlapping ends of the ring for removal thereof from the cylinder.

2,534,030
ANTIFREEZE COMPOSITION
Edwin H. Keller, Wawa, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 27, 1948, Serial No. 11,829
2 Claims. (Cl. 252—74)

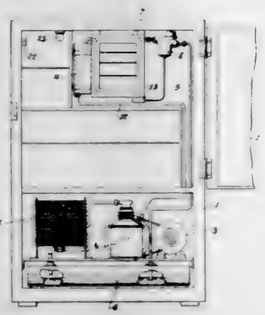
1. An antifreeze composition free of phosphate and nitrite and containing from 10% to 60% by volume of ethylene glycol and from 0.5 to 7.5% by weight of alkali metal metaborate corrosion inhibitor, based on the weight of the glycol, the remainder of the composition being substantially all water, said antifreeze composition being suitable for use in an internal combustion engine cooling system.

2,534,031
DEFROSTING SYSTEM FOR REFRIGERATORS
Paul Kollsman, New York, N. Y.
Application August 19, 1944, Serial No. 550,165
5 Claims. (Cl. 62—115)



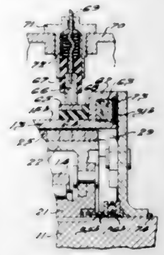
5. In a refrigerating system, a compressor in which the refrigerant fluid is compressed, a condenser in which the compressed refrigerant fluid is cooled, an evaporator in which the refrigerant expands to reduce the temperature, an expansion valve between the condenser and the evaporator normally controlling the passage of fluid therebetween, a check valve by-passing said expansion valve, said check valve preventing passage of fluid therethrough from the condenser to the evaporator but permitting free passage of fluid from the evaporator to the condenser, said compressor being normally connected to cause fluid flow through the condenser to the evaporator, and means for periodically and automatically reversing the direction of fluid refrigerant flow through the system so as to pass warm refrigerant fluid through the evaporator to effect removal of frost condensed thereon, the fluid in its reversed flow passing freely through said check valve.

2,534,032
REFRIGERATOR DEFROSTING SYSTEM
Paul Kollsman, New York, N. Y.
Application August 19, 1944, Serial No. 550,166
10 Claims. (Cl. 62—3)



1. In a refrigerator, a compressor for the refrigerant fluid, a condenser for the fluid, an evaporator in which the fluid expands to perform a cooling operation, an expansion valve controlling the passage of refrigerant fluid between the condenser and the evaporator and means for automatically by-passing the expansion valve in response to an operating condition to pass the warm refrigerant fluid directly into the evaporator in the same direction as in the cooling operation to quickly raise the evaporator temperature and effect a defrosting operation.

2,534,033
CLUTCH
Ludger E. La Brie, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application February 20, 1941, Serial No. 379,786. Divided and this application April 26, 1945, Serial No. 590,451
9 Claims. (Cl. 192—35)

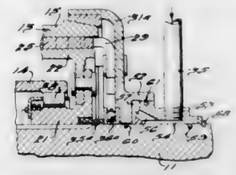


1. In a servo clutch device having a rotatable driving structure and a rotatable driven structure; means for establishing drive between said structures, said means having an end portion positively connected to one of said structures and a second end portion normally free of the other of said structures, and control mechanism for actuating said drive establishing means for effecting and releasing said drive between said driving and driven structures, comprising a rotatable element journalled on the said one of said driving and driven structures, said element having an arm axially overlapping said second end portion of said drive establishing means and relatively movable with respect to the latter and said arm being positively engageable with said second end portion upon rotation of said element whereby to actuate said means to establish said drive, a rotatable electromagnetic field structure drivingly connected to the other of said driving and driven structures, said field structure having axially extending pole faces, a winding carried internally of said field structure, a rotatable armature integral with said rotatable element and in face-to-face relationship with said pole faces, a friction facing carried by said field structure and in face-to-face relationship with said armature, means normally separating said friction facing and armature, and means for conducting electrical energy to said winding for energizing said field structure and armature whereby to engage the latter with said friction facing to establish a drive connection between said other structure and said rotatable element.

2,534,034
CLUTCH
Ludger E. La Brie, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application February 20, 1941, Serial No. 379,786. Divided and this application April 26, 1945, Serial No. 590,452
7 Claims. (Cl. 192—35)

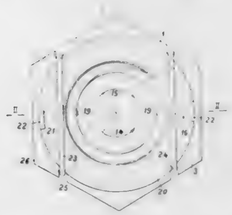
1. In a servo clutch mechanism having a driving member and a driven member; means for establishing drive between said members positively drivingly connected to said driven member and a control structure for actuating said drive establishing means comprising differential pressure motor means including a cylinder element journalled on the driven member and a piston element, one of said cylinder and piston

elements being axially movable relative to each other, a clutch structure operably connected between said driving member and the movable element of said motor means for imparting drive therebetween, means operatively associated with and having relative rotation with respect to said



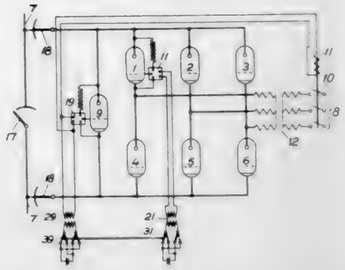
drive establishing means and carried by said movable element of said motor means for actuating said drive establishing means when said movable element is in drive and means for controlling differential fluid operation of said motor means.

2,534,035
SPRING NUT LOCK
Louis Lachatre, La Ferte-Alais, France
Application July 23, 1947, Serial No. 762,918
In France December 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires December 1, 1963
6 Claims. (Cl. 151—25)



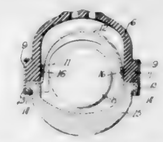
1. A self locking nut adapted to cooperate with threaded rods comprising a nut provided on its upper face with a channel having a middle portion extending circumferentially over substantially 180° around the central bore of the nut and two extreme portions directed substantially radially and opening in said central bore, a spring locking member contained in said channel and having a middle portion bearing on the external face of the middle portion of said channel and two extreme portions extending with a slight clearance in the extreme portions of said channel and bearing normally on the faces of said extreme portions of the channel directed towards the direction of screwing of the nut, said extreme portions of the locking member being each terminated by a bevelled end protruding in the central bore of the nut when said extreme portions of the spring locking member bear against said faces of the extreme portions of the channel directed in the direction of screwing of the nut, said bevelled ends being adapted to be retracted into said channel when frictionally engaged by the threaded rod during screwing of the nut and to grip said threaded rod when said nut is urged in the unscrewing direction, and a cover removably secured on said nut and covering said channel at least in its middle portion and maintaining the spring locking member in said middle portion of the channel without substantial clearance.

2,534,036
METHOD OF PUTTING INVERTERS OUT OF AND INTO FUNCTION
Uno Lamm, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application May 13, 1947, Serial No. 747,801
In Sweden May 14, 1946
7 Claims. (Cl. 321—11)



1. In the operation of an inverter for converting direct current into full-wave alternating current, the steps of releasing a bypass valve in parallel to the inverter so as to allow the passage of a continuous direct current in parallel to the inverter, and thereafter preventing the flow of current through the inverter.

2,534,037
UNITARY SHADE, DEFORMABLE REFLECTOR, AND LENS ASSEMBLY
Wilfred O. Langille, Chester, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 5, 1946, Serial No. 659,729
2 Claims. (Cl. 240—2.14)

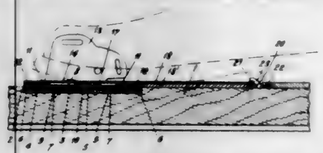


1. In a lighting fixture, a rigid shade element, a rigid lens element having out-turned side-edge flanges, an elastically deformable reflector element having inturned channeled side-edge portions, the span between said channeled side-edge portions in the undeformed state of said reflector being greater than the span across the side-edge flanges of the lens element to permit sidewise entry of said lens element between the channeled portions of said reflector element, said flanges being held in releasable engagement with said channeled portions in the deformed state of said reflector so that the stress locked up in said deformed reflector may later be released to separate the lens from the reflector.

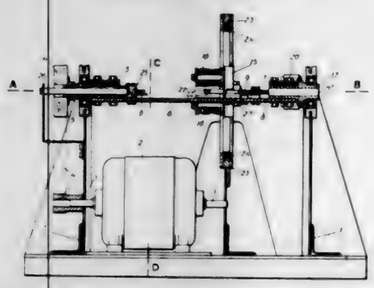
2,534,038
SAFETY SKI BINDING
Adrian Berchtold Lanz, Montreux, Switzerland
Application June 12, 1945, Serial No. 598,960
In Switzerland March 8, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 8, 1964
11 Claims. (Cl. 280—11.35)

1. In ski binding assemblies, a toe-iron assemblage and a base plate having its under face

planar and secured and supported by a complemental face of the ski, a mounting between the toe-iron assemblage and the base plate, said mounting comprising vertical swivelling pivot and complemental seat means in said toe-iron assemblage and said base plate, said mounting being located wholly above the bottom plane of the base plate, and adjustable means normally retaining the toe-iron assemblage against swivelling activity, said means being active to establish a predetermined resistance against swivelling and being yieldable under abnormal lateral forces acting on the toe-iron assemblage, whereby the toe-iron assemblage normally maintains a definite relation between the boot of the user and the ski while providing emergency relief from this normal definite relation between boot and ski and preventing application of excessive twisting stresses to the limb of the user.

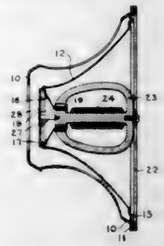


2,534,039
MACHINE FOR MANUFACTURING TWISTED CORE CHENILLE
Henri Guido Lemoine, Talence, France
Application September 17, 1948, Serial No. 49,739
In France September 26, 1947
5 Claims. (Cl. 57—24)



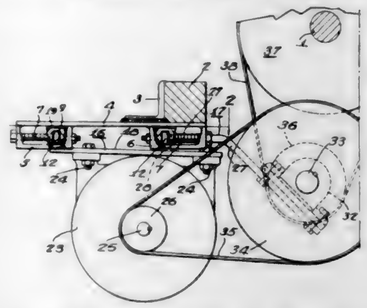
1. A machine for manufacturing twisted core chenilles, including a support; a first system of core thread spools rotatably mounted on the support; a second system of trimming thread spools also rotatably mounted on said support; drive means for simultaneously rotating both systems; means for imparting planetary rotation to the trimming thread spools simultaneously with the rotation of the second system involving the latter spools; two endless drive belts; a plurality of pulleys rotatably mounted for rotation with both systems and spaced apart in effective positions to movably support the drive belts independently of each other but in such manner that a limited length of one belt extends substantially co-extensively with a corresponding limited length of the other belt; means for simultaneously driving the two endless drive belts in such manner that the co-extensive lengths thereof travel in the same general direction; means for guiding the core threads from the core thread spools between the co-extensive lengths of said endless drive belts in effective position to cause simultaneous entwining of the trimming threads from the trimming thread spools with said core threads; and operable guide means accompanying said two systems in rotation and guiding the intermediate portions of said co-extensive lengths of said endless drive belts together in effective relation to feed the trimmed core threads through the machine and simultaneously twist said threads by the effect of the rotation of the two spool systems.

2,534,040
MULTIPLE SECTION DIAPHRAGM LOUD-SPEAKER
Frederick A. Lindley, Flushing, N. Y., assignor to Radio-Television Institute, Inc., New York, N. Y., a corporation of New York
Application April 21, 1947, Serial No. 742,963
7 Claims. (Cl. 179—115.5)



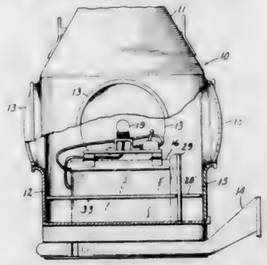
1. A loud speaker comprising a frame, a large conical diaphragm secured at its outer periphery to the frame, a smaller diaphragm, a compliance coupling connecting the outer circumference of the smaller diaphragm to the inner circumference of the large conical diaphragm, a driving motor means having a voice coil connected with the smaller diaphragm, the driving means being located within the large conical diaphragm, and the driving means having a surface shaped to form at least part of a horn for the high frequency sound waves emitted from the smaller diaphragm with an air chamber in front of the smaller diaphragm merging into a horn throat and thereafter an enlarged diameter.

2,534,041
BELT DRIVE ASSEMBLY
Charles C. Lindsay, Roanoke, Ala.
Application January 10, 1946, Serial No. 640,149
5 Claims. (Cl. 74—242.14)



1. In a belt-drive assembly, a main supporting member for said assembly, a driven shaft, a motor pivoted to said main supporting member, an intermediate pulley-shaft pivoted to said main supporting member on a pivot independent of the pivot for said motor, and drive belts operatively connecting the intermediate shaft with the motor and with the driven shaft respectively, said motor and intermediate shaft being supported in positions of suspension from said driven shaft by said belts and being movable by gravity about their respective independent pivots to take up slack in said belts.

2,534,042
MEANS FOR CONVERTING OIL OPERATED RAILWAY MARKER LAMPS TO BATTERY OPERATED RAILWAY MARKER LAMPS
Clifford R. Love, Tulsa, Okla.
Application June 1, 1948, Serial No. 30,282
2 Claims. (Cl. 240—37)

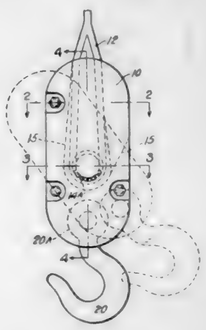


1. An electrical attachment for a railway car oil marker lamp of the type having a cylindrical body portion, an internal, rectangular, oil cup receiving pocket, a sliding access door, and bull's-eye lenses directed in four directions for transmitting the light from the interior of the lantern, comprising a substantially rectangular battery casing having a dry cell battery therein, a pair of opposed vertically disposed guide members at an open end of said battery casing, a door panel adapted to slide in said guide members to close said battery casing and retain said battery therein, a substantially U-shaped spacer plate horizontally arranged on said battery casing so as to enclose three sides of the battery casing, a second spacer plate horizontally arranged on said door panel in substantially the same plane as said first spacer plate and being adapted to serve as a handle for the removal and the insertion of the door panel, said first and second spacer plates contacting the inner edges of the rectangular pocket in the marker lamp to position the battery casing centrally thereof, an electric bulb mounted on the upper side of said battery case, an electric switch, and electric wiring connecting said bulb to said battery through said switch whereby said battery will energize said bulb.

2,534,043
APPARATUS FOR SHOCK THERAPY
Angus MacPhail, Hitchin, England, assignor to Theratronics Limited, London, England
Application April 10, 1947, Serial No. 740,518
In Great Britain February 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 11, 1966
7 Claims. (Cl. 128—423)

3. An electro-therapy apparatus comprising in combination, at least one capacitor, a charging circuit for said capacitor; a treatment circuit; electrodes adapted to be applied to a patient in said treatment circuit; a periodically operating interrupter connected in said treatment circuit in series with said electrodes; and a switch for alternatively connecting said capacitor across said charging circuit and across said treatment circuit, whereby said capacitor can be first charged by said charging circuit and subsequently discharged, the discharge current being periodically interrupted.

2,534,044
CABLE WEIGHT FOR HOISTS
George G. Marx, Detroit, Mich.
Application April 18, 1946, Serial No. 663,219
2 Claims. (Cl. 294—82)

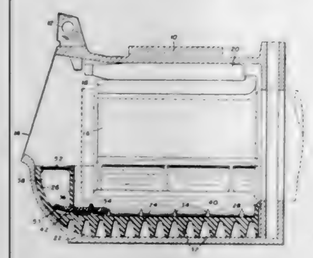


1. A cable tensioning weight for hoists consisting of an ovoid body of metal divided on a central longitudinal plane, means for fixing the parts together, a load hook rigidly secured at one end of said body, a supporting cable extending into said body and applied thereto at a point between the hook and the center of mass of said body and hook, and means permitting the tilting of said body on said cable in one direction in the plane of the hook and in such direction as to open the hook downwardly.

2,534,045
JOURNAL BEARING LUBRICATOR
George H. Massy, Union Township, Union County, N. J.
Application January 23, 1947, Serial No. 723,745
5 Claims. (Cl. 308—87)

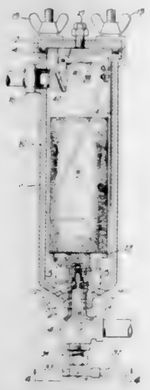
1. A replaceable lubricant assembly for a railway journal box comprising a resilient casing insertable within a journal box, a partition in said casing defining a reservoir, a lubricating chamber

therein, lubricant dispensing means in said lubricating chamber, said casing having a bias urging said casing and said dispensing means into con-



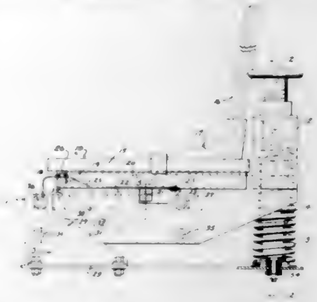
tact with an axle, and flexible lips on said casing engaging said axle and wiping excess lubricant therefrom.

2,534,046
VALVE CONSTRUCTION FOR PROPORTIONING DEVICES
George A. Mau, Lakewood, Ohio, assignor to Johnson-March Corporation, Philadelphia, Pa., a corporation of Delaware
Application October 21, 1949, Serial No. 122,731
12 Claims. (Cl. 210—36)



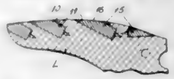
1. In a proportioning device comprising a casing having liquid inlet and outlet openings respectively at the bottom and top thereof and adapted to contain a mass of soluble material in contact with liquid flowing through the casing, a valve mechanism including a valve seat secured in the liquid inlet opening, said valve seat having therein a first set of ports opening upwardly into the casing and a second series of ports opening laterally into the casing through said valve seat, a valve element cooperatively associated with said valve seat and movable between predetermined limit positions, said valve element having a plurality of passages therein arranged in one limit position of the valve element to communicate with and provide liquid flow through the first set of ports only in the valve seat and in the other limit position thereof to communicate with and provide liquid flow through the other set of ports only in said valve seat.

2,534,047
SPRING SEAT CONSTRUCTION
Brouwer D. McIntyre, Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application December 11, 1944, Serial No. 567,643
3 Claims. (Cl. 155—9)



1. A vehicle seat construction comprising a fixed supporting section, a vertically movable supporting section spaced above the fixed section and connected to the latter for movement relative thereto in a substantially straight line path of travel, a seat having a base positioned above the movable supporting section and connected to the latter for movement as a unit with the latter, a vertical adjusting screw rotatably supported on the movable seat supporting section beyond the rear edge of the seat and having the upper end thereof projecting above the seat section so as to be readily accessible to a seat rider an abutment rotatably connected to the lower end of said screw whereby the elevation of said movable supporting section may be adjusted by the rider while sitting on the seat, a coil spring supported under compression between the abutment and a relatively fixed part of the vehicle, and a direct acting tubular type shock absorber extending axially through the coil spring and having the opposite ends respectively connected to the relatively fixed part aforesaid of the vehicle and to said abutment.

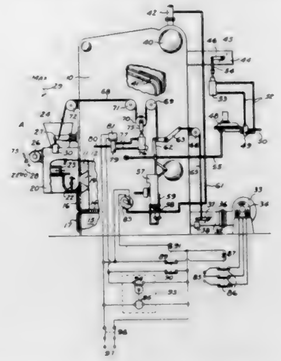
2,534,048
SHOE LAST
Henry T. Michals and Oscar N. Eisendrath, Milwaukee, Wis.
Application March 26, 1949, Serial No. 83,552
2 Claims. (Cl. 12—133)



1. A shoe last having a sole face and repair plugs disposed in said body at an acute angle to said body, the outer ends of said dowels being smooth and flush with said sole face and defining elliptical repair surfaces.

2,534,049
APPARATUS FOR REGULATING COMBUSTION IN SPREADER STOKER FURNACES
Earle C. Miller, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application February 20, 1948, Serial No. 9,899
5 Claims. (Cl. 110—101)

1. In combination with a furnace for the combustion of fuel and the production of heat, a rotatable spreader stoker distributor to supply fuel to the furnace, means to continuously rotate said distributor, means to feed fuel to the distributor, a forced draft fan to supply air to the furnace, a master controller responsive to changes in the



demand for heat, and connections from the controller to the fuel feeding means and the fan effective to start and stop the fuel feed and the fan as the demand for heat increases and decreases and while the distributor continues to rotate.

2,534,050
PROCESS OF TREATING PHOTOGRAPHIC LAYERS CONTAINING COLOR FORMERS WITH METAL SALT HARDENING AGENTS
Otis Willard Murray, Fords, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 11, 1946, Serial No. 676,090
5 Claims. (Cl. 95—7)

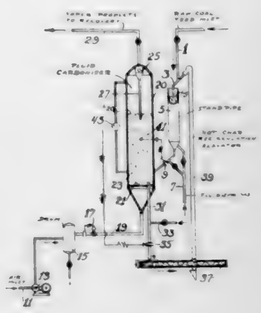
1. The process which comprises treating a wet photographic element prior to exposure with an aqueous solution containing from 2 to 30 grams per liter of solution of a polyvalent metal salt hardening agent and from 0.05 to 2.0% by weight, based on the amount of water, of a hydrotropic wetting agent, said element having a hydrophilic colloid silver halide emulsion layer containing a color former having as the active group a structure of the formula

$$X-(\overset{|}{C}=\overset{|}{C})_n-\overset{|}{C}=CH-$$

where X is a member taken from the group consisting of HO— and H_2N— and n is a cardinal number from 0 to 1.

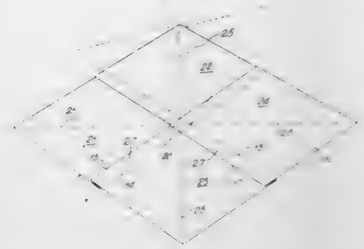
2,534,051
METHOD FOR FLUIDIZED LOW-TEMPERATURE CARBONIZATION OF COAL
Karl J. Nelson, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 22, 1946, Serial No. 711,755
4 Claims. (Cl. 202—6)

1. In the low temperature carbonization of subdivided bituminous coal at carbonization temperatures of about 800°–1200° F. in the form of a dense turbulent fluidized mass maintained at said carbonization temperatures in a carbonization zone by burning a portion of said coal in said carbonization zone, the improvement which comprises maintaining the bituminous coal to be carbonized as a dense turbulent fluidized mass of solids having a fluidizable particle size in a drying zone at a drying temperature, withdrawing substantially dry moisture-absorbing fluidizable char having a particle size similar to that of said



bituminous coal downwardly from said carbonization zone, adding said withdrawn char to said drying zone substantially at said carbonization temperature, said added char supplying in the form of sensible heat of solids substantially all the heat required for drying, and supplying a fluidized mixture of bituminous coal and char from said drying zone to said carbonization zone.

2,534,052
METHOD OF FORMING ONE-PIECE PAPER CONTAINERS
Jesse Norden, Woodmere, N. Y.
Original application December 18, 1946, Serial No. 716,959. Divided and this application June 24, 1948, Serial No. 34,988
4 Claims. (Cl. 93—36)

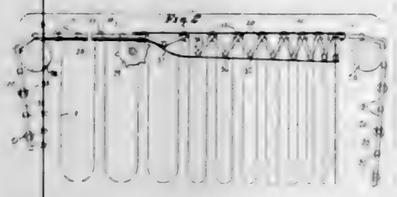


2. The herein described method of forming a container from a rectangular sheet of fibrous material which consists of first folding the sheet upon itself forwardly and reversely along one set of spaced, parallel lines, folding the resulting folds similarly along a second set of spaced, parallel lines disposed at right angles to the first set of lines and intersecting same at the center of the sheet, and folding the intermediate portions extending from the outer points of intersection of the two sets of lines diagonally so as to form side walls having Z-pleats with spirally wound flaps and multiple bottom panels.

2,534,053
LUBRICATING GREASE CONTAINING PARAFFIN WAX
Rosemary O'Halloran, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 9, 1948, Serial No. 64,417
6 Claims. (Cl. 252—41)

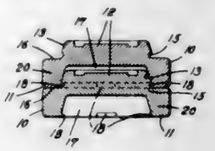
1. A lubricating grease consisting essentially of 50 to 90% by weight of lubricating oil of about 100 to 1,000 S. S. U. viscosity at 100° F., said oil consisting of at least one oil composition selected from the group which consists of mineral base lubricating oils and synthetic ester oils of the dibasic aliphatic acid branched chain alkyl ester type, 5 to 30% of predominantly alkali metal soap of fatty acids having 12 to 22 carbon atoms, and 2 to 15% of paraffin wax having a melting point between about 110° and 135° F.

2,534,054
CONVEYER
Ralph C. Parkes, Glenside, Pa.
Application June 6, 1946, Serial No. 674,855
6 Claims. (Cl. 198—129)



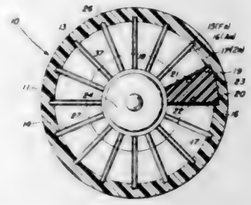
5. The combination with a conveyor adapted to be propelled through a drying chamber and including spaced rollers and links pivotally connected at their ends to said rollers, of means for causing said conveyor to move through different portions of said drying chamber at different rates of speed without varying the rate of speed at which said conveyor enters or leaves said drying chamber, said means including a first horizontal rail extending through a first portion of said drying chamber, a ramp leading downwardly from an end of said first rail, a second rail extending through a second portion of said drying chamber and sloping downwardly from the lower end of said ramp, a horizontal guide member above said second rail, constant speed propelling means for actuating said conveyor, said propelling means being located intermediate said first and second rails and arranged to pull said conveyor over said first rail with all of said rollers riding on said first rail and with said links extended horizontally and in end-to-end relation, said propelling means being also arranged to push said conveyor down said ramp, onto, and over said second rail with alternate rollers riding on said second rail and other alternate rollers moving against the under side of said guide member, and with said links forming progressively larger angles with the horizontal as the conveyor moves further along said second rail, whereby any given point on said conveyor will move at a higher lineal rate of speed and a given portion of the conveyor will occupy more lineal space while the conveyor is moving over said first rail and traversing said first portion of said drying chamber than said point and said portion will, when said conveyor is moving over said second rail and traversing said second portion of said drying chamber.

2,534,055
SNAP FIT INTERLOCKING CHECKER
Willard S. Peterson, Astoria, N. Y.
Application December 3, 1946, Serial No. 713,674
4 Claims. (Cl. 273—137)



1. In a checker member, a relatively thin and flat body formed of readily deformable material and having its lower face provided with a recess, a projection integral with said body rising from the upper face thereof, said projection corresponding substantially with the size and shape of said recess, the side wall of said projection having a locking groove therein, and a locking rib integral with said body and extending into the side wall of said recess.

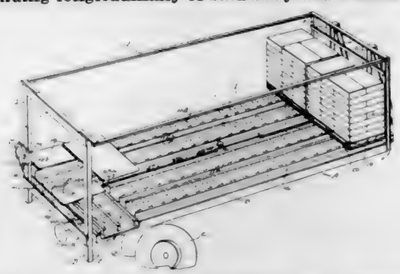
2,534,056
DEFERRED ACTION BATTERY
Arnold Pitt, Weston, Ontario, Canada
Application May 15, 1947, Serial No. 748,245
6 Claims. (Cl. 136—90)



1. An electric battery for fuzed projectiles including a casing, a plurality of electrodes the opposite sides of which are provided with coatings of dissimilar metals of the electrochemical series, said electrodes being spaced and arranged radially in the casing and defining an axial cavity, an electrolyte, and a frangible ampoule containing the electrolyte and mounted in the cavity, said ampoule being shattered upon discharge of the projectile from a rifled ordnance, the inertial forces incident to the projectile discharge forcing the electrolyte downwardly and laterally in the casing and between the electrodes to cooperate therewith to form a plurality of electric cells.

2,534,057
LOAD HANDLING APPARATUS FOR VEHICLES
George H. Pride, New York, N. Y.
Application December 16, 1948, Serial No. 65,609
7 Claims. (Cl. 214—65)

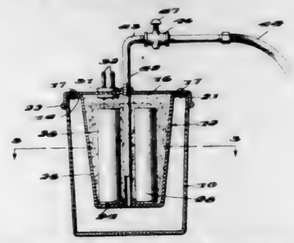
1. A vehicle comprising a plurality of horizontally shiftable floor plates, and a body adapted to support said floor plates; the said body having portions defining a passageway through which the vehicle may be loaded and unloaded and also having means for shiftably supporting said floor plates, one at a time, adjacent said passageway for horizontal movement in opposite directions transversely of said passageway; the said plates being removable and, when in position in the vehicle, being in abutting relationship in a series extending longitudinally of said body and terminating at one end at said passageway; and said plates being shiftable longitudinally of said body.



2,534,058
POLYMERIZATION OF TETRAFLUOROETHYLENE WITH DIBASIC ACID PEROXIDE CATALYSTS
Malcolm MacKenzie Renfrew, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 30, 1946, Serial No. 713,385
10 Claims. (Cl. 260—29.6)

1. Process of preparing a suspensoid of polytetrafluoroethylene which comprises contacting tetrafluoroethylene at a temperature of 0° C. to 95° C. under a pressure of at least 15 lbs. per sq. in. with an aqueous solution of a peroxide of a saturated aliphatic dibasic acid having 4 to 5 carbon atoms, inclusive.

2,534,059
CONFECTION MOLD
Attilio Ricciardi, New York, N. Y.
Application December 24, 1946, Serial No. 718,134
5 Claims. (Cl. 107—19)



1. A confection die adapted to cooperate with a mold comprising, a frusto-conical shaped hollow die body having the end of less diameter closed and the opposite end thereof open, a cover for the open end of said die body, means carried by the cover for centering the die in a mold, means within the die body for heating the die, and means for introducing a fluid medium under pressure into said mold through the closed end of the die body.

2,534,060
HIGH-SPEED INTELLIGENCE RECORDING AND REPRODUCING SYSTEM
Frederick W. Roberts, Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application September 17, 1946, Serial No. 697,591
8 Claims. (Cl. 179—100.1)

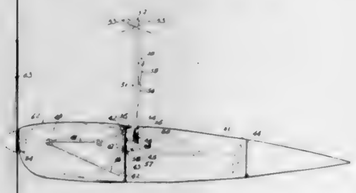
1. For use in a code transmission system wherein code signals are transmitted, received and recorded at high speed and reproduced at lower speed; signal receiving and reproducing apparatus for rendering the reproduced low speed signals more readable comprising, in combination, a wide band receiver, a wide band audio frequency amplifier connected to the output of said receiver, said amplifier having a band width substantially greater than the frequency range of the audio-frequency components of said code signals including their side-bands, sound recording means connected to the output of said amplifier

for making a record of the high speed signals received, means for reproducing at lower speed the recorded signals, a reproducer amplifier connected to the output of said reproducing means, wave distortion means in said reproducer amplifier for producing intense harmonics of the reproduced low speed signals passing therethrough, and means connected to the output of said reproducer amplifier for converting the amplified electrical signals and their harmonics into audible signals.

2,534,061
TELESCOPIC SIGHT LENS COVER
Arthur P. Rogers, Harris, N. Y.
Application February 14, 1947, Serial No. 728,457
2 Claims. (Cl. 33—50)

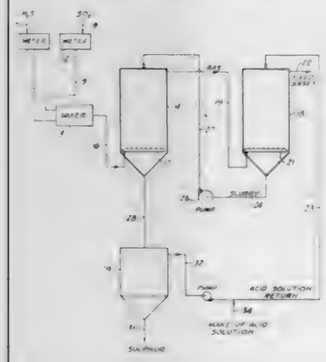
1. In a telescope sight of the type involving an elongated tube containing lenses at its opposite ends and hinged covers spring pressed to normally occupy open positions and adapted to be manually moved into closing relation to the ends of said tube; the improvement of combined retaining and releasing mechanism for said covers, said mechanism comprising projections on said covers, spring closed gripping elements on said tube between which said projections forcibly engage as the covers are moved from open to closed positions whereby the covers are retained in their closed positions, a rod mounted along said tube for endwise movement and normally occupying a starting position, said rod having openers at the opposite ends arranged upon movement of said rod in one direction away from its starting position to engage and separate said spring closed gripping elements and thereby release said projections and permit said covers to resume their open positions, said spring closed gripping elements comprising a pair of spring arms secured at one end to said tube and tensioned toward each other, the free ends of said spring arms having closely spaced edges formed with facing notches to retainably embrace said projections while said arms are closed toward each other, the outward ends of said edges being flared to provide entrance therebetween of said projections as said covers are moved into their closed positions the inner edges of said arms between said outward ends and the secured other ends being in the shape of wedges complementary to said openers on said rod.

2,534,062
AIRCRAFT WITH RETRACTABLE ROTARY WINGS
Alfred I. Roman, New York, N. Y.
Substituted for abandoned application Serial No. 546,661, July 26, 1944. This application February 20, 1948, Serial No. 9,881
10 Claims. (Cl. 244—6)



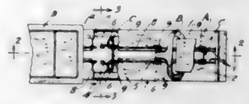
1. In an airplane, a wing section having an opening formed therein, a front spar in said wing section, a power plant mounted upon said front spar, a propeller shaft rotatively mounted through said front spar and connected via a clutch with said power plant, a tubular housing, a shaft rotatively mounted through said housing, rotary wings mounted upon the outer end of said last-named shaft, a transmission arranged to provide a releasable connection between said shafts, a bracket mounted on said front spar and pivotally supporting said housing, and means for pivoting said housing from a vertical position through the opening to housed position in said wing section.

2,534,063
MANUFACTURE OF INSOLUBLE SULFUR
Earl T. Ross, Los Angeles, and Cecil B. Wilde, Compton, Calif., assignors to Stauffer Chemical Company, a corporation of California
Application February 12, 1945, Serial No. 577,438
2 Claims. (Cl. 23—225)



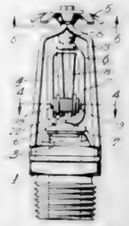
1. A process for manufacture of insoluble sulphur comprising passing gaseous hydrogen sulphide and gaseous sulphur dioxide simultaneously in the proportion of about two mols of the hydrogen sulphide to about one mol of the sulphur dioxide into an aqueous bath having an hydrogen ion activity of between 4.5 and 6.5 gram ions for liter and wherein the hydrogen sulphide and sulphur dioxide react to form in said solution a precipitate of elemental sulphur containing carbon bisulphide insoluble sulphur, and separating the sulphur from the solution.

2,534,064
ADJUSTABLE FASTENER
Leo Roseman, Newark, N. J.
Application July 3, 1946, Serial No. 681,255
2 Claims. (Cl. 24—206)



1. An adjustable fastener part comprising a base strip having longitudinal edges folded at the same side of the strip with their margins forming a channel between them, a plurality of fastener elements spaced longitudinally of said strip, each including a main rigid bar portion extending transversely of said channel having end portions each returned parallel and in opposed spaced relation to and at the same side of said rigid bar portion to form an inwardly facing open loop, said end portions being located between said infolded edge portions and the main portion of said strip, and a continuous single line of stitches running longitudinally along the margin of each inturned edge portion inwardly of and closely adjacent said returned end portions of said fastener elements and penetrating said edge portions and said main portion of said base strip, certain of said stitches in each line traversing said rigid bar portions.

2,534,065
FUSIBLE LINK
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application April 19, 1946, Serial No. 663,532. Divided and this application June 8, 1948, Serial No. 31,770
5 Claims. (Cl. 169—42)

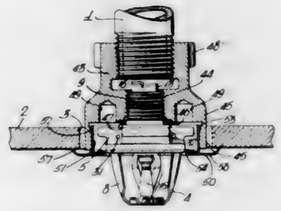


1. A heat releasable link for automatic sprinkler heads, said link comprising a tubular housing, a solid body of heat-fusible medium housed in said tube, the walls of the housing having interstices permitting passage therethrough of the said medium in fused state but being impermeable to the medium in the solid state, and terminal elements normally supported by said body in positions projecting from the ends of the housing and being displaceable inwardly of the housing upon fusion of the medium.

2,534,066
SPRINKLER HEAD AND MOUNTING THEREFOR
Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 30, 1949, Serial No. 130,263
19 Claims. (Cl. 169—38)

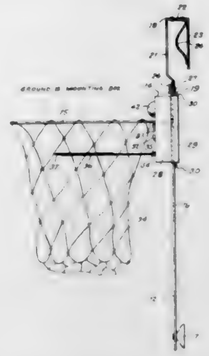
1. In a sprinkler head assembly, the combination with a self-contained sprinkler head unit

comprising a frame having an externally threaded tubular stem at the upper end thereof, of a hollow bell-shaped fitting having at its upper end means for attaching the fitting in depending position in the sprinkler system, and having in



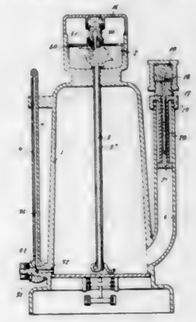
the interior thereof and remote from the normally open lower end of the fitting a threaded bore for reception of the threaded stem of said frame, the upper portion of the sprinkler head being thereby embraced within the confines of said fitting.

2,534,067
ADJUSTABLE BASKETBALL HOOP MOUNTING
Herbert Rubin, New York, N. Y.
Application March 24, 1949, Serial No. 83,189
2 Claims. (Cl. 273—1.5)



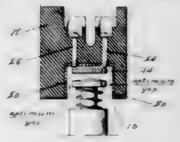
1. In a portable, adjustable and knock-down support for basketball hoops, an elongated track member, an inverted substantially U-shaped clip member adjustably and detachably connected to the upper end of said track member, a leaf-spring engaged with a portion of said clip member to enable the latter to be yieldingly engaged with the top of a vertical structure to position said track member in linear suspension therebelow, a mounting box of materially greater width than said track member having vertically aligned slots in the upper and lower ends thereof to receive said track member therethrough, means within said mounting box coacting with portions of said track member to yieldingly retain said box member in vertically adjusted positions on the track member, a basketball hoop, means formed on the front face of said mounting box for detachably connecting the ends of said hoop thereto, and means at the lower end of said track member for detachably connecting the latter to the face of the structure on which the device is supported.

2,534,068
PYROPHORIC LIGHTER
Bela Sandor, London, England
Application November 13, 1947, Serial No. 785,705
In Great Britain October 28, 1946
5 Claims. (Cl. 67—4.1)



2. Pyrophoric lighter comprising a large capacity fuel tank, pyrophoric lighter mechanism arranged at the upper part of said large capacity tank, actuating means for said mechanism arranged beneath and passing through said large capacity tank, another smaller tank for the pyrophoric lighter mechanism arranged at the upper part of said large capacity tank, a tube within the large capacity tank and a wick arranged therein to feed fuel from the large capacity tank to the smaller tank, an outlet aperture on said large capacity tank, a delivery tube connected to said outlet for delivery of fuel to independent articles, a pipe lighter spill, and a fuel filler aperture for the large capacity tank to receive said pipe lighter spill.

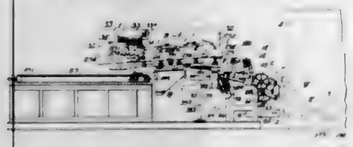
2,534,069
ARC EXTINGUISHING MEANS FOR ALTERNATING CURRENT ELECTRIC SWITCHES
Harold E. Schleicher, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut
Application April 9, 1947, Serial No. 740,406
11 Claims. (Cl. 200—147)



2. In an electric switch for alternating currents, relatively movable contacts which establish, maintain and break the circuit in which they are connected, a U-shaped conductive arc-carrying member having arms embracing the contacting surfaces of said contacts and electrically connected with one of said contacts, means to separate said contacts, said conductive member and contacts being positioned to maintain at all times during said separating movement that certain and predetermined distance between said other contact and said conductive means which gives maximum arc extinguishing effect for the circuit conditions and characteristics in the circuit in which the switch is used, and said conductive member being magnetic, means to create a magnetic field between said arms of said conductive member for attenuating the arc occurring on con-

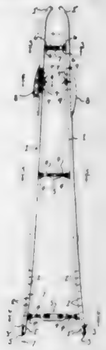
tact separation, the arc incident to the circuit opening being carried by said contacts until said optimum distance is reached and thereafter playing upon said other contact and said arms.

2,534,070
MACHINE FOR ASSEMBLING SHEET FORM MATERIAL
Edgar H. Schmidt, Wilmington, and Karl F. Cossaboon, Claymont, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 25, 1949, Serial No. 101,382
32 Claims. (Cl. 270—58)



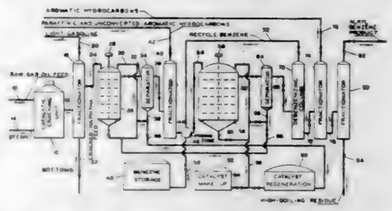
13. An apparatus for assembling lengths of sheet form material which comprises an inspection device for identifying defects as a strip of said material passes said device; means for maintaining continuous and uninterrupted passage of the strip through said inspection device; a chopper for cutting the strip into lengths; means for interleaving said chopped-off lengths with separator; means located between said inspection device and said chopper for intermittently feeding to the chopper in predetermined cycles lengths of the strip of given length, said cycles consisting of alternate dwells and feedings of the strip at an average speed such that each length fed to the chopper in unit time is the same as the length of strip which continuously and uninterruptedly passes said inspection device in unit time whereby a given loop of said strip is formed between the inspection device and said intermittent chopper feed; a memory device including a rotatable element having a record means thereon for recording the relative position of a defect on said strip; recording means for impressing said record on said rotatable element; said recording means including an impulse receiver and a reciprocating arm carrying said recording means; means for indexing said rotatable means coincidentally with the indexing of the strip into the chopper a distance bearing a given proportion to the length of strip indexed; means for reciprocating said reciprocating arm in response to changes in the size of the loop a distance which bears the same ratio to the changes of length in the loop that the said indexing of the rotatable member bears to said length, whereby the length of said record on the rotatable member will bear the same ratio to the length of strip indexed; an impulse activator operable by said record; a reject device having means including said impulse activator for rejecting defective strips, the distance along said strip of material from the point of inspection to the cut off end thereof bearing the same ratio to the distance on said rotatable member from the beginning of the record of the length to the impulse activator; and means for indexing all records of the given length on the rotatable member past the impulse activator when the length of sheet material is indexed into the chopper; said reject device comprising a time delay means for delaying the operation of the reject device until after the operation of said interleaving means, said time delay means being set in operation for rejecting a length of cut off material when said impulse activator is engaged by the record of a defect on said rotatable member, whereby a length or sheet material having a defect observed at the inspection station will be rejected whether or not it is interleaved with a separator.

2,534,071
ADJUSTABLE FUR PELT DRIER AND STRETCHER
Eugene Schulz, Sr., and Thomas A. Miskowski, Merrill, Wis.; said Miskowski assignor to said Schulz, Sr.
Application March 6, 1947, Serial No. 732,672
1 Claim. (Cl. 45—24)



A pelt stretcher and dryer comprising a pair of side-rods flared at their lower tail ends and narrowed at their head ends, a transversely disposed brace member connecting the rods at their narrow ends, said brace member including a pair of overlapping arms, means adjustably connecting said overlapping arms together, a second transversely disposed brace member connecting the side rods together at their wide ends, a third intermediately positioned brace member connecting said rods, said second and third brace members each including a pair of aligned links pivoted to the rods, and a screw threaded coupling for adjustably securing the links, whereby the wedge shaped side-rods may be widened or narrowed for nested engagement with different sized pelts.

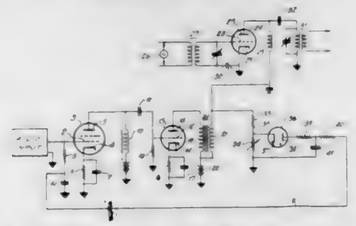
2,534,072
PRODUCTION OF ALKYL BENZENES
Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 2, 1947, Serial No. 751,937
7 Claims. (Cl. 260—671)



1. A two-step process for catalytically producing high molecular weight alkyl benzenes, which comprises fractionating a catalytically cracked naphtha to produce a fraction containing olefins having at least seven and not more than eighteen carbon atoms to the molecule and alkylatable

aromatic constituents; contacting said fraction with a liquid type alkylation catalyst in an alkylation zone under conditions such that said olefins react with said aromatics; separating effluent reaction mixture from said alkylation zone into a catalyst phase and a hydrocarbon phase in a separation zone; introducing said hydrocarbon phase into a fractionation zone, removing unreacted hydrocarbons previously associated with the olefin-aromatic containing fraction; mixing the resulting high-boiling alkylate with excess benzene in a mixing zone, contacting resulting mixture in a side-chain transfer zone with a liquid type alkylation catalyst under conditions to effect side-chain transfer from said high-boiling alkylate material to unalkylated benzene; separating effluent reaction mixture from said side-chain transfer zone in a separating zone into a catalyst phase and a hydrocarbon phase and recovering high molecular weight monoalkyl benzenes from said hydrocarbon phase.

2,534,073
MODULATION PROTECTIVE ARRANGEMENT
John R. Sherwood, Cedar Rapids, and Kenneth L. Klippel, Iowa City, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application April 20, 1949, Serial No. 88,644
4 Claims. (Cl. 332—38)

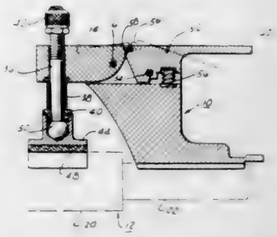


1. A carrier modulation system, comprising a source of carrier waves, a source of modulating signals, a modulator tube, a grid-controlled amplifier tube for amplifying said modulating signals, a modulation transformer for coupling the amplified signals to said modulator tube, and means to protect said transformer against excessive voltage rise when the modulator load is removed from the secondary winding of said transformer, the last-mentioned means comprising a voltage divider connected across said secondary winding, a rectifier tube having its anode-cathode discharge path bridged across said voltage divider and normally non-conductive except when the voltage across said secondary winding rises above a predetermined value, and circuit connections from said rectifier tube to said amplifier tube to apply a plate current cut-off bias to the grid thereof.

2,534,074
REACTION OF ALKYL CYCLOPARAFFINS WITH UNSATURATED FATTY ACID
Albert J. Shmidl, Greens Bayou Park, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
No Drawing. Application May 2, 1947, Serial No. 745,637
3 Claims. (Cl. 260—413)

1. A method for reacting methyl cyclopentane with oleic acid which includes the steps of forming a mixture of methyl cyclopentane and oleic acid in an acid reacting alkylation-isomerization catalyst, contacting the mixture with the acid reacting alkylation-isomerization catalyst at a temperature in the range between 60° to 300° F. for a time sufficient to form a reaction product, and recovering the product.

2,534,075
PRINTING PRESS BRAKE
Roland E. Sleight, Philadelphia, Pa.
Application September 29, 1949, Serial No. 118,549
1 Claim. (Cl. 188—83)

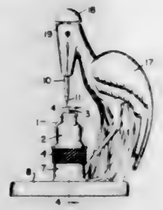


A brake for a printing press of the type which includes a shaft, and a ductor roll carried by said shaft, said brake including a pedestal detachably journalled on said shaft in proximity to said ductor roll, a first body member pivoted to the inner portion of said pedestal and having a guide opening in the inner portion thereof, a stem having a limited sliding movement in said guide opening, a brake shoe, a universal joint securing said shoe to said stem, said first body member being movable to a first position in which said stem is normal to the axis of rotation of said shaft and said shoe contacts said ductor roll and to a second position in which said stem forms an obtuse angle with the axis of said shaft and said shoe is out of engagement with the ductor roll, a spring carried by said stem and confined between said first body member and said shoe for biasing said shoe against said shaft when said first body member is in said first position, a shoulder formed on the outer edge of said first body member, a second body member pivoted to the outer portion of said pedestal adjacent said first body member, there being a seat formed in the inner edge of said second body member adapted to be engaged by said shoulder, said second body member being movable to a first position in which said shoulder engages said seat and said first body member is locked in its first position, and to a second position in which said shoulder is disengaged from said seat and said first body member can be moved to its second position, and a spring between the outer portion of said second body member and said pedestal for biasing said second member to its first position.

2,534,076
BABY BOTTLE NIPPLE PUNCH
Polly Nixon Slick, San Antonio, Tex., assignor to Institute of Inventive Research, San Antonio, Tex., a foundation of Texas
Application October 29, 1949, Serial No. 124,351
5 Claims. (Cl. 164—119)

1. A device for perforating baby bottle nipples, comprising a rotatable upright, a body surrounding said upright and secured thereto, said body conforming to the shape of the nipple including the end thereof, an indexing mechanism operatively associated with said upright, an indexing wheel secured to said upright for oper-

ating said mechanism, openings in the end of the upright adjacent the end of the nipple, a punch secured to said device in register with the openings in said upright as the last mentioned is in-



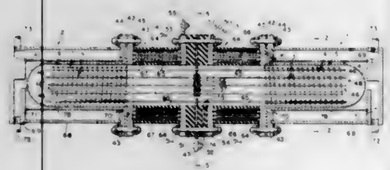
dexed, said punch serving to make holes in the ends of the nipples at successive positions as the upright is indexed and the punch is de-pressed at each indexed position.

2,534,077

MULTIUNIT ELECTRON DISCHARGE TUBE

Charles R. Stevens, Toledo, Ohio, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio, a corporation of the United States

Application March 21, 1947, Serial No. 736,233
12 Claims. (Cl. 250—27.5)



1. A multi-unit tube, each unit comprising a cathode, a control grid and an external anode open at its base and closed at the opposite end, the anodes of the unit being flanged at their bases the flanges being detachably connected in fixed relation and the open ends of the anodes brought into strict rectilinear alignment, the grids of the unit being constituted of a plurality of stay rods over which the grid wires are wound, said stay rods extending integrally throughout the length of the interior of the combined anodes.

2,534,078

TREATMENT OF POLYMERIC MATERIALS

Daniel E. Strain, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 22, 1945, Serial No. 579,317
4 Claims. (Cl. 260—79.3)

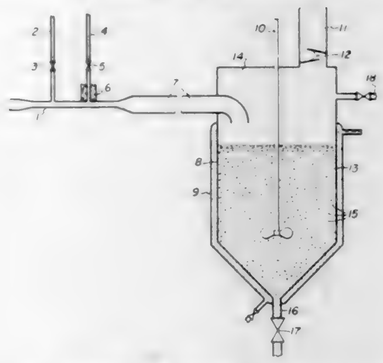
1. A process for preparing cured polymeric materials which comprises subjecting a pre-existing substantially saturated uncured resin of the class consisting of chlorinated normally solid ethylene polymer and chlorosulfonated normally solid ethylene polymer, to the action of about 1% to 20% by weight of an organic peroxy compound at a temperature within the range of 100° to 160° C. under a pressure of 10 to 2,000 pounds per square inch above atmospheric pressure, and continuing the said heating until a cured resin which is virtually insoluble in common organic solvents is obtained.

2,534,079

GRANULAR POLYMERS AND PROCESS FOR THEIR PREPARATION

Daniel E. Strain, Wilmington, and Henry Peterson, Newport, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application March 19, 1948, Serial No. 15,868
7 Claims. (Cl. 260—17.4)



1. In a process for isolating in granular form a solid macromolecular, hydrolyzed interpolymer having the empirical formula

$$(C_2H_4)_x.(C_2H_3OH)_y.(C_2H_3OR)_z,$$

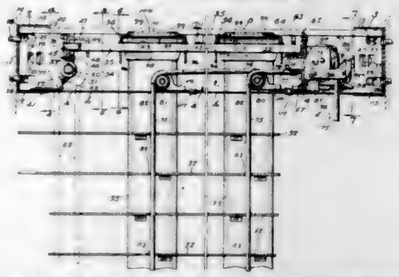
wherein R is an acyl radical of an organic monocarboxylic acid and x, y and z are numbers, the ratio of x to $(y+z)$ being within the range of from 1:1 to 4:1, and the ratio of y to z being at least 1:1, the steps which comprise bringing a stream of said interpolymer in solution in a volatile solvent into direct contact in a constricted area with a stream of steam moving at such a velocity that the interpolymer is comminuted by reason of the impact with the steam, and thereafter maintaining the thus combined streams in highly turbulent flow at a velocity of at least 350 feet per second until the solvent content of the interpolymer particles has been reduced by means of the said steam to below the level at which agglomeration of the particles occurs.

2,534,080

VENETIAN BLIND MECHANISM

Walter J. Stuber and John J. Di Ienno, Philadelphia, Pa., assignors to Carey-McFall Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 8, 1946, Serial No. 681,826
3 Claims. (Cl. 160—166)



1. A head casing structure for Venetian blinds; comprising a member including integral bottom,

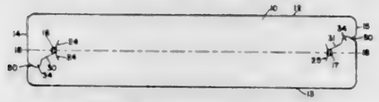
front and back panels; longitudinal channels formed at the upper edges of said front and back panels respectively, a cross-frame for supporting one end of a tilt rod extending transversely in said member and comprising a plate, and lateral extensions on said plate being provided with upstanding projections at opposite sides of the plate engaged within the longitudinal channels at the upper side edges of the front and back panels.

2,534,081

SUPPORT SHIELD FOR HANGERS

Harry A. Tomarin, Cincinnati, Ohio, assignor to Loroco Industries Incorporated, Reading, Ohio, a corporation of Ohio

Application March 18, 1948, Serial No. 15,538
4 Claims. (Cl. 223—88)



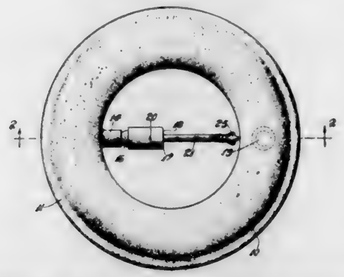
1. A support for hangers of the type including a horizontal leg the opposite ends of which comprise a continuation of the lower ends of a pair of upwardly convergent legs, said support fabricated from a strip of sheet material having a pair of apertures provided therein on the longitudinal axis and spaced from the ends thereof, slits tangentially engaging and interconnecting each aperture with an adjacent end edge of the strip for controlling access to said apertures, the slit for each aperture inclined relative to the longitudinal axis of the strip and being located on opposite sides of said axis at each end thereof, each slit terminating at its outer end in a notch provided in the end edge of the strip, each slit including interfering means extending across a straight line drawn between the points of intersection with its respective aperture and the end edge of the strip, and slots transversely intersecting said apertures on opposite sides of said axis, each of said slots constructed and arranged to receive the legs of a hanger when transversely displaced from its respective aperture incident to turning of the support about its longitudinal axis.

2,534,082

FLUID APPLICATOR

Jerome W. Turley, East Orange, N. J., assignor of one-third to Eugene G. Cicchetti and one-third to Samuel Bahoosh, both of East Orange, N. J.

Application December 8, 1949, Serial No. 131,838
1 Claim. (Cl. 128—226)



A device of the character described comprising an annular hollow body formed of compressible material and constituting a collapsible liquid container, said container being formed with an outlet through its inner peripheral portion, a coupling having inner and outer sections open at their ends, the inner section having its inner end portion secured in the outlet of said body and being externally threaded from its outer end, the outer section being internally threaded from its inner end and screwed upon the outer end portion of the inner section, an internal annular flange about the outer end of the outer section defining an opening therein, a ball in said outer section secured by a pin passing diametrically through the ball with its ends fitting into openings formed in diametrically opposed wall portions of the outer section, said ball constituting a closure movable into and out of a closed position against the outer end of the inner section by screwing the outer section onto and off of the inner section, a hose having its inner end portion passing through the opening at the outer end of the outer section and formed with a shouldered portion fitting between the flange and the confronting portion of the ball, and a nozzle at the outer end of said hose.

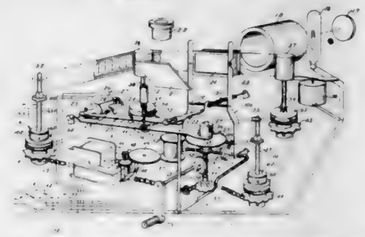
641 O. G.—42

2,534,083

PROJECTOR

Jan A. Van den Broek, Ann Arbor, Mich., assignor, by mesne assignments, to Bradfield and Bidwell, Inc., Ann Arbor, Mich., a corporation of Michigan

Application April 18, 1946, Serial No. 663,135
2 Claims. (Cl. 88—24)



1. In a ceiling projector, a mechanism housing, or removable lamp house on said mechanism housing, an objective lens assembly upstanding from said housing on a vertical axis, a pair of separable flat transparent plates providing a film gate on the top of said housing in a vertical plane adjacent and in the optical path of said lens assembly, one of said plates being mounted on said lamp house, film spools rotatable on vertical axes on opposite sides of said film gate on the top of said housing, means in said housing operable for selectively driving one or the other of said spools for reversible feed of said film, and means in said housing synchronized with said film feed means for separating said plates during film movement.

2,534,084

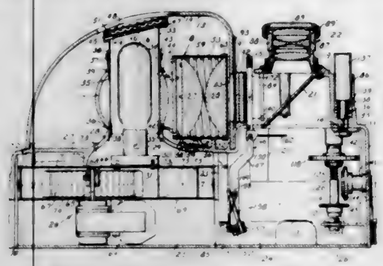
PROJECTION APPARATUS

Jan A. Van den Broek, Ann Arbor, Mich., assignor, by mesne assignments, to Bradfield and Bidwell, Inc., Ann Arbor, Mich., a corporation of Michigan

Application June 21, 1946, Serial No. 678,209
7 Claims. (Cl. 88—24)

1. In a projection apparatus, a hollow base, a top wall on said base, a projection lamp and condenser lens assembly mounted on said wall, a housing mounted on said base covering said

lamp and condenser lens assembly, an upstanding objective lens mount on said wall, said housing and lens mount being apertured in substantially horizontal alignment, an objective lens assembly on said lens mount with its axis substantially vertical, means defining a film gate between said housing and said lens mount, means in said lens



mount for deflecting light from the lamp and condenser lens assembly upward through said objective assembly means for advancing film through said film gate, cooling air supply means mounted within said base below the lamp and condenser lens assembly, and drive means for said film advancing means mounted within said base.

2,534,085
PREPARATION OF ALKALI ALKYL XANTHATES
Byron M. Vanderbilt, Westfield, and John P. Thorn, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 23, 1949, Serial No. 89,366
9 Claims. (Cl. 260—455)

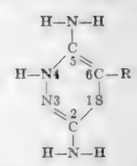
1. A process for preparing alkali metal alkyl xanthates which comprises reacting carbon bisulfide with the corresponding alkali metal hydroxide and the corresponding normally liquid dialkyl ether at a temperature in the range of from 15° to 100° C.

2,534,086
WINDOW CLEANER
Peter S. Vosbikian and Thomas S. Vosbikian, Melrose, Pa.
Application January 13, 1948, Serial No. 1,997
2 Claims. (Cl. 15—245)

1. In a window cleaner, a head having its front face substantially vertical, and comprising a top section and a lower section, said sections being constructed and arranged to form a slot therebetween, said slot being angularly inclined relative to the front face of the head, a handle having a portion conforming to the top face of the top section, a headed bolt passing through said head sections and handle portion, a nut for said bolt bearing against said handle portion, and a wiper blade in said slot and clamped between said head sections.

2,534,087
2,5-DIAMINO-1-THIADIAZINE-3,4 RESINS
Henry A. Walter, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application October 8, 1949, Serial No. 120,420
4 Claims. (Cl. 260—67.6)

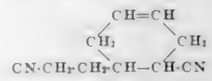
1. A resinous condensation product of formaldehyde and a compound having the formula:



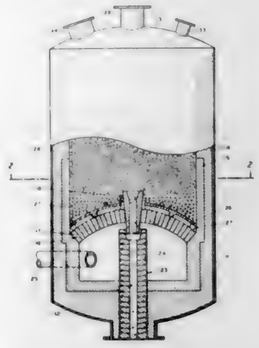
wherein R is taken from the group consisting hydrogen, alkyl and aryl radicals.

2,534,088
DINITRILE COMPOUND
Irving D. Webb, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 21, 1949, Serial No. 100,527
1 Claim. (Cl. 260—464)

The compound, 4-cyano-5-(beta-cyanoethyl)-cyclohexene, having the formula

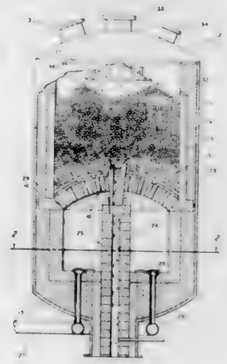


2,534,089
PEBBLE HEATER APPARATUS
Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 21, 1947, Serial No. 787,413
7 Claims. (Cl. 263—19)



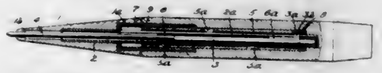
1. In a pebble heater apparatus utilizing a moving bed of heated pebbles, an improved pebble heating chamber comprising a substantially vertically disposed closed outer shell; insulating means within and adapted so as to insulate said shell; pebble inlet means centrally disposed in the upper portion of said shell; effluent outlet means in the upper portion of said shell; a perforate refractory load-supporting dome within said shell, intermediate the ends of said shell and dividing the chamber within said shell into a heating zone above said dome and a combustion zone below said dome; a first pebble conduit means extending substantially centrally through said dome; a second pebble conduit means extending centrally through the bottom of said shell and upwardly into said combustion zone and enclosing a portion of said first pebble conduit therein so as to form an expansion joint therebetween, whereby said first and second pebble conduits form a pebble outlet from said heating chamber; means for separating pebbles within said heating zone from said dome; and fluid heat exchange material inlet conduit means in said shell below said dome.

2,534,090
PEBBLE HEATING CHAMBER
Louis Joe Weber and Sam P. Robinson, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application December 29, 1947, Serial No. 794,380
2 Claims. (Cl. 263—19)



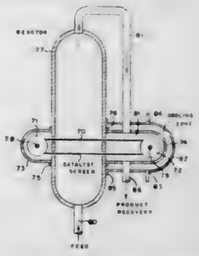
2. An improved pebble heating chamber comprising an upright closed outer shell having an unbroken side wall; insulating means within and adapted so as to insulate said shell; pebble inlet means centrally disposed in the upper portion of said heating chamber; a baffle member disposed below said pebble inlet means and in the upper portion of said heating chamber, said baffle extending downwardly and outwardly from an apex toward the side wall of said chamber; gaseous effluent outlet means in the upper portion of said heating chamber; a perforate refractory load-supporting dome within said chamber, intermediate the ends of said heating chamber and dividing said chamber into a heating zone above said dome and a combustion zone below said dome; pebble outlet conduit means extending substantially centrally through said dome and downwardly through said combustion zone and the bottom of said shell; and a plurality of upright burners in the bottom of said shell, spaced inwardly from the side wall of said heating chamber and distributed about said combustion zone.

2,534,091
MECHANICALLY OPERATED PENCIL WITH SCREW FEED
George Hugo Weinberger, London, England, assignor to Henry Weinberger Limited, London, England, a British company
Application February 4, 1948, Serial No. 6,147
In Great Britain November 29, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 29, 1963
7 Claims. (Cl. 120—18)



1. A mechanically operated pencil comprising a point portion formed with an axial hole through which the lead is adapted to be projected, a tubular hub secured coaxially to said point portion and extending rearwardly therefrom, said tubular hub having a longitudinal slot through its wall, a tube formed with a helical slot surrounding said hub, a tubular bush surrounding said tube and fixed thereto, said bush extending forwardly beyond the forward end of said tube, forward longitudinal movement of said tube relative to said hub being prevented by abutment of said bush against said point portion, stop means mounted on said hub for preventing rearward longitudinal movement of said tube relative to said hub, a stick, for propelling the lead, located within said hub, a lateral projection extending from said stick and passing through said longitudinal slot in said hub, and a helical portion extending from said lateral projection outside said hub, said helical portion lying within the helical slot of said tube, whereby rotation of said tube relative to said hub causes said helical portion, and therefore said stick, to move longitudinally in said hub, said helical portion, as the stick approaches the forward end of its stroke being adapted to be progressively screwed out of the forward end of said helical slot, and being adapted, during such progressive screwing out to be compressed against said point portion (in the manner of a spring) until it is screwed completely out of said helical slot, whereupon continued rotation of said tube relative to said hub can be effected without damage, the compression of said helical portion ensuring its re-entry into said helical slot upon rotation of said tube in the opposite direction.

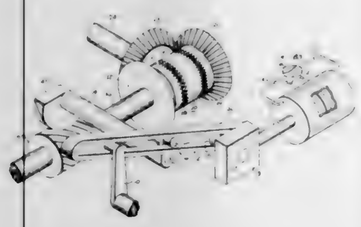
2,534,092
METHOD FOR CATALYTIC REACTIONS
Henry D. Wilde, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application August 21, 1948, Serial No. 45,526
1 Claim. (Cl. 23—1)



A continuous method for conducting a catalytic reaction which comprises continuously

passing a stream of heated reactant material through a reaction zone, continuously moving into and through said reaction zone a metallic gauze having a volatilizable catalyst deposited thereon, the reaction conditions being such that a substantial portion of said catalyst volatilizes from the metallic gauze, continuously removing from the reaction zone metallic gauze denuded of catalyst and regenerating it by depositing additional volatilizable catalyst on such gauze while it is outside said reaction zone and subsequently passing the regenerated metallic gauze into and through said reaction zone in contact with said heated reactant material therein.

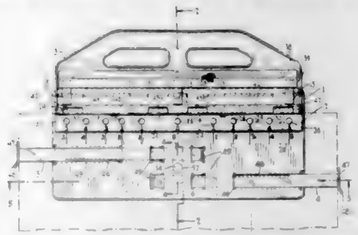
2,534,093
INTERMITTENTLY ENGAGED CLUTCH VARIABLE POWER TRANSMISSION
George W. Willard, Springfield, Mo.
Application May 19, 1947, Serial No. 748,877
15 Claims. (Cl. 74—125.5)



1. A drive transfer mechanism, comprising an input shaft, an output shaft, means to drive said output shaft from said input shaft, means to vary the drive means for imparting a varying drive on said output shaft from a non-rotative condition through a progressively increasing rotary angular extent of oscillatory rotation to a continuously rotating condition, and motion rectifying means operably driven by said output shaft, including first gear means and second gear means freely rotatable on said output shaft, and output gear means in mesh with both said first and second gear means and adapted to be driven by either of the first and second gear means, first bidirectional clutch means adapted to drivingly interconnect said first gear and said output shaft, second bidirectional clutch means adapted to drivingly interconnect said second gear and said output shaft, and actuating means adapted to operate the first clutch means upon rotation of the output shaft in a first direction and adapted to operate said second clutch means upon rotation of the output shaft in a second direction.

2,534,094
PAPER PUNCH
John A. Yerkes, New York, N. Y.
Application March 9, 1946, Serial No. 653,343
21 Claims. (Cl. 164—91)

1. In a desk type paper perforator, a base; a bank of a plurality of fixedly located reciprocable punches carried by said base and arranged symmetrically relative to a central punch at the mid-point of said bank; a centering guide having interconnected elements adapted to center the mid-points of sheets of different widths relative to said central punch of said bank; and a selector carrying handle, said selectors being adjustable to select punches to be operated by said handle to produce any one of a plurality of de-

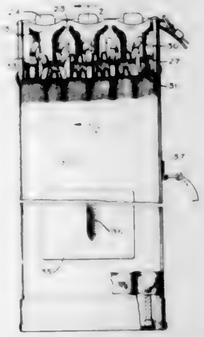


sired pattern of holes in said sheets relative to said mid-point of said blank.

2,534,095
HYDROCARBON COPOLYMERS AND USE THEREOF AS LUBE OIL ADDITIVE
David W. Young, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 31, 1948, Serial No. 18,283
16 Claims. (Cl. 252—59)

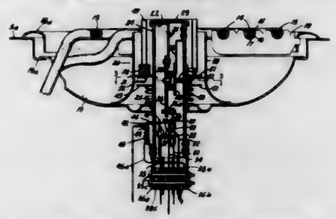
1. Product consisting essentially of a copolymer of about 75% to 99% by volume of isobutylene and about 1% to 25% by volume of a higher normal alpha olefin of 6 to 20 carbon atoms, said copolymer being a semi-solid tacky substance having an average molecular weight of about 2,000 to 30,000 and having an iodine number below 1.

2,534,096
GOLF BAG
Max M. Zapoleon, Dayton, Ohio
Application November 7, 1947, Serial No. 784,530
6 Claims. (Cl. 150—1.5)



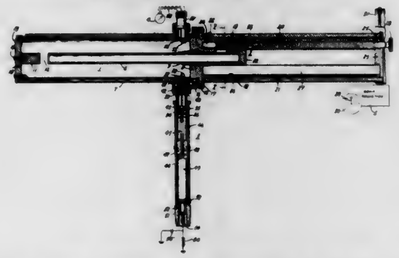
2. In a golf bag, a plurality of pockets for receiving individually the shafts of golf clubs, said pockets being arranged in a plurality of rows one in back of the other with the upper edge of the rows disposed at increasingly higher levels from front to rear of the golf bag, at least one of said rows being adapted to receive iron-head clubs, the said one row having the upper edge thereof disposed on a downwardly inclined angle from one side to the other of the golf bag, a club-head supporting strip in front of each of the said rows to prevent the club-heads from striking one another, a rigid transverse stiffening member extending along the top edge of each said row, and a rigid frame connecting all said members.

2,534,097
TOP BURNER ELECTRIC RANGE AUTOMATIC COOKING
Lloyd T. Akeley, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application June 3, 1948, Serial No. 30,835
3 Claims. (Cl. 219—37)



2. In an electric hotplate, an electric heating element lying in a horizontal cooking plane and encircling a central area and adapted to support a cooking vessel thereon, a switch for controlling the energization of said heating element, a thermostat for operating said switch located in said central area, a heat conducting cap in thermal contact with said thermostat, cylindrical heat shields within said central area surrounding said thermostat to shield it from radiant heat from said heating element, and biasing means resiliently biasing said cap and shields separately upwardly so that normally they project above said plane, said biasing means yielding to the weight of a cooking vessel placed on said heating element thereby to force said cap and shields into good heat conducting relation with the bottom wall of said vessel when it is placed thereon.

2,534,098
ULTRA HIGH FREQUENCY WAVE GENERATOR
LeRoy Apker, Niskayuna, and Joseph Kahnke, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 23, 1945, Serial No. 601,125
13 Claims. (Cl. 250—37)

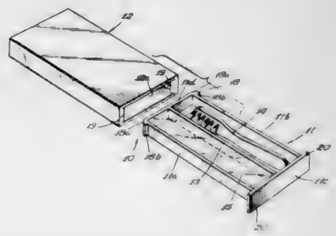


9. A wave generator comprising a cavity resonator, a spark gap, means for energizing said spark gap, means for coupling the output energy of said spark gap substantially directly to said cavity resonator, and means for tuning said cavity resonator.

2,534,099
HERBICIDAL COMPOSITIONS
Chester L. Arnold, Berkeley, Calif., assignor to Stauffer Chemical Company, a corporation of California
No Drawing. Application May 6, 1949, Serial No. 91,880
8 Claims. (Cl. 71—2.7)

1. A composition for killing weeds and defoliating plants, said composition containing per-chloro-methyl-mercaptan as an active ingredient in an effective concentration, water and a wetting, dispersing and emulsifying agent.

2,534,100
CONTAINER FOR COSMETICS
John G. Baumgartner, Oswego, Ill., assignor to Maybelline Company, Chicago, Ill., a corporation of Illinois
Application April 10, 1947, Serial No. 740,617
1 Claim. (Cl. 220—41)



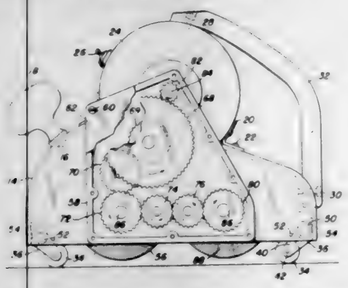
A two-member disposable plastic container for mascara applying materials comprising a rectangular open box member for carrying mascara applying material therein in a readily accessible position, said box member having a bottom, a pair of opposing sides integral with said bottom, and a pair of opposing end walls integral with said bottom and said sides and closing the same, with said box member having an outwardly extending lateral flange projection on each of the sides thereof adjacent one end and comprising together a first set of such projections, and said container also comprising a one-piece rectangular cover member for telescopically receiving said box member, said cover member being open at each end thereof and having a top, a bottom, and two opposing integral closing sides, with the inside cross-sectional dimensions of the cover member being substantially uniform throughout, and with the height of one end wall of the box member being substantially the same as the inside height dimension of the cover member, and an inwardly protruding flange projection on each side thereof at the same end and comprising together a second set of projections, at least one of said two sets of projections having a beveled surface at the edge of each projection initially engaged when the two members are telescoped together so that one set may be pressed past the other set upon the two members being telescoped together, and both of said sets of projections being further shaped to present face abutting surfaces for preventing the complete withdrawal of said box member from said cover member, with said cover member having said box member extending therefrom but not completely separable in one direction and serving as a handle for carrying the container when the box member is open for access thereto, and the end wall at the other end of the box member extending beyond the side edges of the box member to abut the ends of the walls of the cover member to prevent the box member from being telescoped through the cover member in the other direction and separated therefrom.

2,534,101

MEAT BLOCK SCRAPING MACHINE HAVING SPRING PRESSED SUPPORTING WHEELS

James Bongiorni, Washington, Pa., assignor of thirty per cent to Rudolph Baronick, Washington, Pa.

Application January 22, 1948, Serial No. 3,703
2 Claims. (Cl. 15—93)



1. A meat block cleaner and top surfacer comprising in combination a curved, hollow casing having a substantially rectangular contour at its base, a pair of opposing handle means carried by said casing, a motor removably mounted on said casing, a pair of spaced parallel horizontal cylindrical rotary wire brushes, gear means connecting said motor with said brushes for simultaneously actuating said brushes in opposite rotational directions, wheels, pivoted support means for securing said wheels to said casing at the base corners thereof for vertical movement of said wheels, and resilient means carried by said support means and engaging the end walls of the casing for urging said support means downwardly yet allowing the wheels to yield to downward force on the handles to lower said brushes onto the meat block, said wheel support means including bifurcated plates depending from said casing substantially at the corners thereof having furcations inclined downwardly and towards the center of said casing and an upstanding web, fastening engaging apertures in the free extremities of said furcations, fastening means journaled in said apertures for rotatably supporting the wheels, fastening engaging apertures at the ends of said furcations adjacent the web, and fastening means fixedly attached to the inner side faces of the said casing and journaled in said last-mentioned apertures for pivotally supporting the said bifurcated plates.

2,534,102

LAMINATED GLASS INTERLAYER

Francis T. Buckley and George R. Sido, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 13, 1947, Serial No. 779,648
10 Claims. (Cl. 154—2.77)

4. A laminated safety glass comprising two sheets of glass and a polyvinyl acetal resin interlayer, said interlayer being modified with a plasticizer and from 0.5 to 5 parts per 100 parts of polyvinyl acetal resin of an aryl sulfonamide-formaldehyde-alcohol condensation product, the polyvinyl acetal resin having been prepared by reacting an aldehyde having the formula RCHO wherein R is taken from the group consisting of hydrogen and alkyl and phenyl radicals with a compound taken from the group consisting of completely hydrolyzed polyvinyl esters and partially hydrolyzed polyvinyl esters, said polyvinyl acetal resin being made up, on a weight basis, of 5–25% hydroxyl groups calculated as polyvinyl alcohol, 0–40% ester groups calculated as polyvinyl acetate and the balance substantially acetal, said aryl sulfonamide condensation product being the condensation product of a compound taken from the group consisting of benzene and toluene sulfonamides with formaldehyde and an unsubstituted aliphatic saturated alcohol containing from 1 to 8 carbon atoms.

2,534,103

THREE-PHASE BIMETAL THERMAL RELAY

Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application September 24, 1949, Serial No. 117,694
2 Claims. (Cl. 200—122)

1. A switching device for a three-phase electrical system comprising a cylindrical casing having metallic and non-metallic cylindrical casing sections alternating axially of said casing, three heating elements each respectively responsive to the current in one phase of said three-phase system and each respectively positioned adjacent to one of said metal casing sections, a spiral bimetallic element associated with each of said heating elements positioned inside each of said metal casing sections and having one end attached thereto and one end free to move, a rotatable shaft axially mounted within said cylindrical casing, said spiral bimetallic elements being concentrically arranged about said shaft but axially displaced from one another along said shaft, said shaft being provided with a separate abutment adjacent each of said spiral bimetallic elements, said abutments being rotatable with said shaft, each of said spiral bimetallic elements having its free end abutting against an edge of its respective abutment on said shaft so that motion of any one of said bimetallic elements causes motion of said shaft, and switching means actuated by a predetermined movement of said shaft.

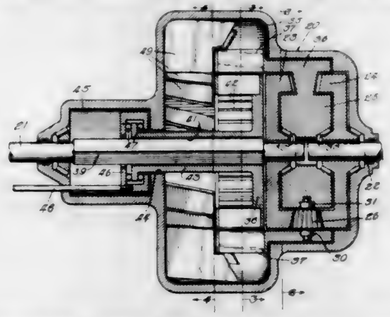
2,534,104

HYDRAULIC PLANETARY TRANSMISSION

Leslie L. Chiville, Jr., Carpentersville, Ill.

Application May 12, 1948, Serial No. 26,590
13 Claims. (Cl. 74—688)

1. A hydraulic transmission, comprising: a drive shaft, a driven shaft, and a planetary gear system operatively interposed between said shafts, said planetary gear system having a drive gear rotated by the drive shaft, a driven gear adapted to rotate the driven shaft, a planet carrier and a plurality of planet gears on the carrier and meshing with said drive and driven gears to transmit rotation of the drive shaft to the driven shaft with the speed and direction of rotation of the planet carrier relative to the driven gear determining the speed and direction of rotation of the driven shaft, a fluid reservoir, a fluid impeller in the reservoir and driven by the drive shaft, a rotor in the reservoir and connected to the planet



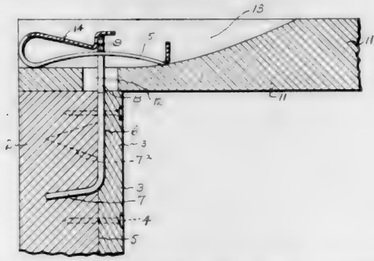
carrier and driven by the impeller, and control means for controlling the operation of the impeller to vary the velocity and direction of flow through the reservoir of the fluid propelled by the impeller.

2,534,105

RECEPTACLE AND CLOSURE FASTENER THEREFOR

Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application October 7, 1944, Serial No. 557,675
3 Claims. (Cl. 85—8)



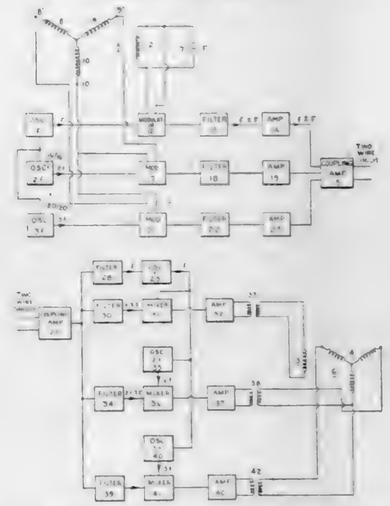
1. A fastener for boxes and the like comprising a stud member and a cooperating female fastener member; said stud member comprising an elongated body provided with means for mounting it on a panel of a box, a head at one end of said body, a reduced neck portion connecting said head to said body adapted for extending through an aperture of a cover panel of a box, and shoulders on said head adjacent said neck portion; said female fastener member being formed from resilient strip material and comprising an elongated bowed base portion provided with surfaces at its ends for engaging a cover panel of a box, an elongated stop portion overlying said base portion, and a bight portion connecting one end of said stop portion to an adjacent end of said base portion, said bight portion having an aperture adjacent said base portion proportioned for receiving said head of said stud member, said base portion being formed with a longitudinal slot extending from said aperture in said bight portion and provided with an end wall of said slot intermediate the ends of said base portion, said slot being proportioned to permit the passage of said neck portion along said slot to said end wall while said shoulders slidably engage the surface of said base portion adjacent said slot, and said stop portion extending angularly toward substantially the center of said base portion and providing a surface opposite said base portion for slidable engagement with the head of said stud member during the passage of said stud member along said slot and an end surface at its free end facing said end wall of said slot providing means whereby said stud member may be retained in engagement with said female fastener member.

2,534,106

SERVO MECHANISM

Nathaniel L. Cohen, Rockaway Beach, N. Y.

Application March 2, 1946, Serial No. 651,668
7 Claims. (Cl. 318—24)



4. In a servo system, a rotatable transmitter and receiver, means for energizing said transmitter from a source of alternating current, means for generating a plurality of voltages of intensities dependent on the angular position of said transmitter, a plurality of sources of synchronized carrier currents, means for modulating one of said sources with said source of alternating current and for modulating said other sources with individual ones of said generated voltages, a single carrier common transmission channel from said transmitter to said receiver for all of said modulated signals, means at said receiver for separating said plurality of carrier currents, means for demodulating said carrier currents to reproduce signals corresponding to said alternating current for energizing said receiver and to reproduce signals corresponding to said induced voltages to rotate said receiver to a position corresponding to the rotated position of said transmitter.

2,534,107

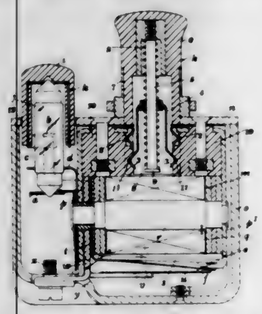
ELECTRIC CIRCUIT BREAKER AND INDICATING DEVICE THEREFOR

Thomas Curzon, London, England, assignor to C. A. V. Limited, London, England

Application February 4, 1948, Serial No. 6,304
In Great Britain December 8, 1944
3 Claims. (Cl. 177—329)

1. An electric circuit breaker comprising in combination a main electric circuit including a

pair of normally closed main complementary contacts, means for separating said contacts in response to an overload condition in said circuit, a control switch arranged in series with said contacts, an electric signal lamp, and a manually operable two-way switch having fixed and movable contacts which in one position of said two-



way switch connect said signal lamp across said main complementary contacts to enable said lamp to give a visible indication when said main complementary contacts are separated, and which in another position of said two-way switch connect said lamp across said control switch for testing the continuity of said circuit.

2,534,108

PROCESS FOR COPOLYMERIZING MONOMERS HAVING DIFFERENT POLYMERIZATION RATES

Willem Leendert Johannes de Nie and Rudolf Herman Mettivier Meyer, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 22, 1947, Serial No. 762,810. In the Netherlands March 23, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 23, 1964
9 Claims. (Cl. 260—78.5)

6. A process for copolymerizing a maleic acid ester with an ethylenically unsaturated monomer of the group consisting of the vinylidene halides, vinyl halides, vinyl esters of saturated monocarboxylic acids, acrylic acid esters and methacrylic acid esters of saturated monohydric alcohols, and mixtures thereof, comprising emulsifying the said ethylenically unsaturated monomer in water containing an emulsifying agent and a polymerization catalyst, heating the emulsion until the induction period of the monomer is substantially complete, adding at one time the total quantity of the maleic acid ester and completing the polymerization.

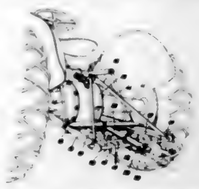
2,534,109

TRACTOR HITCH

Charles E. De Witt, Big Prairie, Ohio

Application July 6, 1948, Serial No. 37,199
5 Claims. (Cl. 280—33.44)

1. In combination with a tractor having a pair of rearwardly disposed draw bars and a hitch bar connected to the rear ends of the draw bars and having a longitudinal series of apertures therein, a tractor hitch comprising a transversely extending cross hanger for contact with the upper sides of said draw bars, depending hooks near the ends of said cross hanger for engagement with the under sides of said draw bars, a spaced pair of rearwardly disposed rods connected to the cross hanger and having downturned rear ends for engagement in certain of the apertures in



the hitch bar, and a draw bar pivoted to the cross hanger and slidable over the top of the hitch bar and extending in rear of the hitch bar.

2,534,110

REMOTE-CONTROL DEVICE

Robert P. Dice, Webster Springs, and Brooks H. Keener, Bergoo, W. Va.

Application October 12, 1949, Serial No. 120,928
6 Claims. (Cl. 198—203)

1. A coal mine belt conveyor control system, comprising in combination, a continuous belt conveyor, electric power means for driving the conveyor, relay control means for controlling the belt conveyor drive, and switch control means for actuating the relay controls, said control means including current sensitive relays, a low voltage D. C. source, and continuous switch means comprising a positive current lead and two return leads, said leads being of bare wire and mounted adjacent the conveyor belt, means connecting the positive lead to the current source, and means connecting the return leads to the current sensitive relays, a common return from the relays to the D. C. source; the said switching means being effective upon bridging of the positive lead and either of the return leads to selectively actuate one of the current sensitive relays, whereby to control the conveyor drive.

2,534,111

WAVE CONVERSION SYSTEM FOR TRANSMITTERS AND RECEIVERS

Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application December 10, 1946, Serial No. 715,302
11 Claims. (Cl. 178—5.6)

1. In combination, a source of amplitude modulated waves, a source of unmodulated oscillations having an amplitude smaller than the minimum amplitude of said waves, means for mixing said waves and said oscillations to produce a beat frequency wave of substantially constant amplitude, and means for mixing said beat frequency wave with a wave of substantially constant amplitude to produce a resultant wave of substantially constant amplitude and of a frequency differing from the frequency of said amplitude modulated wave by a constant frequency.

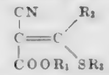
2,534,112

CERTAIN THIO DERIVATIVES OF ALPHA ALKYLIDENE CYANOACETIC ESTERS

Harry Derek Edwards, Ilford, England, assignor to Ilford Limited, Ilford, England, a British company

No Drawing. Application September 22, 1949, Serial No. 117,265. In Great Britain October 2, 1948
9 Claims. (Cl. 260—465)

7. Organic compounds of the general formula:



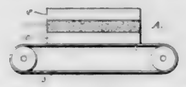
and stereo isomeric forms thereof, where R_1 and R_2 are alkyl groups and R_3 is selected from the class consisting of alkyl and aralkyl groups.

2,534,113

METHOD OF MAKING NONWOVEN MATERIAL

Luis G. Egger, New York, N. Y., assignor to United Merchants & Manufacturers Inc., Wilmington, Del., a corporation of Delaware

Application May 28, 1947, Serial No. 751,011
16 Claims. (Cl. 154—98)



1. Method of making non-woven fibrous material, comprising the steps of applying an aqueous film of a water-soluble adhesive to a temporary support, distributing a layer of discrete fibers thereover while said film is still in an adhesive condition, removing the water from said film to cause said fibers to be fixed in web form, applying a coating of a water-insoluble resinous film forming organic material over the surface of said fibers whereby the fibers are partially embedded in the resinous film, drying said resinous film, and releasing the water-insoluble resinous film and partially embedded fibers from the temporary support by dissolving the water-soluble adhesive.

2,534,114

GROWING FEEDER FOR POULTRY

William W. Faris, Webster Groves, Mo.

Application January 26, 1946, Serial No. 643,718
1 Claim. (Cl. 119—61)

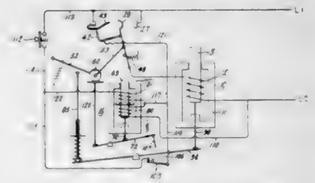
A growing feeder comprising, in combination, a trough including ends, a pair of legs at each trough end, each leg being of angle cross section and having a plurality of keyhole slots in one side thereof, each leg including a flat base portion of large supporting area, aligned openings in the trough ends, and a pair of readily removable and replaceable bolts extending through two keyhole slots of each leg and through apertures in said trough ends and secured against removal, said four legs being individually adjustable.

2,534,115

TRANSITORY ELECTRORESPONSIVE SWITCHING CONTROL

John A. Favre, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

Application December 30, 1948, Serial No. 68,363
13 Claims. (Cl. 175—335)



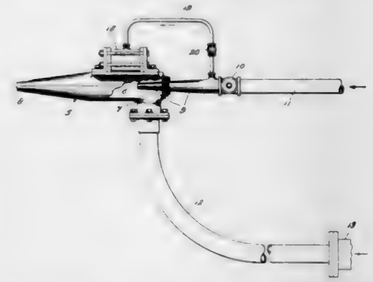
1. A transitory electroresponsive switching control having in combination, a pair of electroresponsive devices, a two-position switch controlling the response of one device, means biasing the switch to one position and operating mechanism for said switch provided with disjointable mechanical operating connections under transitional control of both devices for moving the switch to the other position to effect response of the one device upon response of the other device and to release the switch for movement to the biased position upon response of the one device.

2,534,116

APPARATUS FOR SPRAYING CEMENTITIOUS COMPOSITIONS

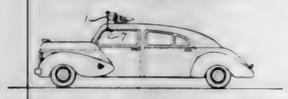
Sverre Fjeldstad, New York, N. Y.

Application July 16, 1948, Serial No. 38,978
In Sweden June 22, 1946
2 Claims. (Cl. 259—147)



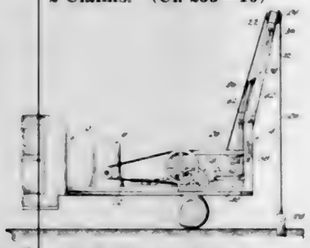
1. Apparatus for the placement of pre-mixed plaster, stucco, mortar and like plastic cementitious compositions by spraying, comprising a translatable nozzle structure having inlet and discharge ports for the composition; a vibrating device carried by said nozzle structure for imparting vibrations to the composition therein whereby to enhance its fluidity; and means for injecting a gas into the nozzle structure to spray the fluidized composition from said discharge port.

2,534,117
FLAG HOLDER
Walter J. L. Flick, Tarentum, Pa.
Application October 18, 1947, Serial No. 780,737
1 Claim. (Cl. 248—226)



A flag holder for funeral cars comprising a flag pole secured to a substantially L-shaped bracket having one leg adapted for engagement with one face of the flange of a car door, a second L-shaped member yieldingly mounted in said L-shaped bracket having one leg adapted for engagement with the other face of the car door flange, whereby upon closing of the door the flag holder bracket will be securely clamped between the door and the door jamb.

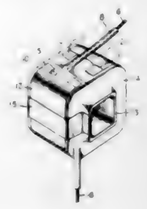
2,534,118
HYDRAULIC DRILLING MACHINE
Ralph H. Geisler and Charles H. Skeen, Midland, Tex.
Application August 22, 1946, Serial No. 692,239
2 Claims. (Cl. 255—10)



1. A hydraulic drilling machine having a frame, a drilling cable wound on a drum journaled on the frame, a pair of opposed vertical complementary standards mounted on said frame, a pair of opposed vertical complementary slideways mounted at the upper end of said standards, a reciprocable crown block slidably disposed in said slideways, a sheave journaled in said block and engaging said drill cable intermediate its ends for reciprocating a drill tool attached thereto, a first cylinder vertically mounted upon a support between said standards, an actuated piston reciprocable within said first cylinder and attached to a piston rod, said crown block being mounted at the upper end of said rod, a second cylinder horizontally mounted on said frame, an actuating piston reciprocable within said second cylinder and attached to a power shaft, power means to actuate said power shaft, said pistons dividing said cylinders into compression spaces and working chambers, an air line connecting the compression spaces of said cylinders, a hydraulic column connecting the working spaces of said cylinders, a fluid storage tank mounted on said frame, a supply line from said tank to the second cylinder and a return line from said first cylinder to the tank.

2,534,119
HIGH-POTENTIAL COIL
Richard Barton Gethmann, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application January 26, 1948, Serial No. 4,349
3 Claims. (Cl. 175—21)

1. An electrical coil assembly comprising a coil form having a coil wound thereabout, said coil being wound in a plurality of layers, solid polyethylene dividing and insulating said layers one from the other, said polyethylene extending longitudinally beyond said layers, lead wires connected to the ends of said coil, further solid polyethylene enclosing said entire coil assembly



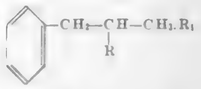
and forming an integral homogeneous mass with said first-mentioned solid polyethylene, heat resisting adhesive tape surrounding the periphery of said further solid polyethylene and acting as a protective means therefor, said lead wires extending from said further solid polyethylene and said adhesive tape.

2,534,120
PROCESS FOR POLYMERIZING STYRENE IN CONTACT WITH BENZOYL PEROXIDE AND DI(TERTIARY BUTYL) PEROXIDE
Sanford E. Glick, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 13, 1948, Serial No. 14,819
4 Claims. (Cl. 260—93.5)

1. A process for preparing homopolymers of styrene having an average molecular weight of from 10,000 to 20,000 which consists essentially of polymerizing 100 parts of styrene in contact with a catalyst consisting of 100 parts of benzoyl peroxide and from 0.7 to 7.0 parts of di(tertiary butyl) peroxide, the ratio of styrene to benzoyl peroxide varying from 100:0.3 to 100:0.7, the polymerization reaction being carried out at temperatures of 120–200° C.

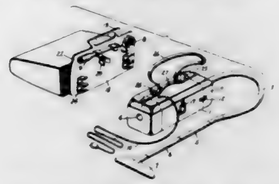
2,534,121
AMINE ADDITION SALTS OF STEROID-3-MONOSULFATES
Gordon Allison Grant, Montreal, Quebec, William Lawrence Glen, Baie d'Urfe, Quebec, and Richard James Barber, Ville St. Laurent, Quebec, Canada, assignors to Ayerst, McKenna & Harrison, Limited, Ville St. Laurent, Quebec, Canada, a corporation of Canada
No Drawing. Application May 19, 1950, Serial No. 163,098. In Canada May 6, 1950
13 Claims. (Cl. 260—397.4)

1. As a new compound, the stable addition salts having central stimulating activity and other therapeutic activity and corresponding to the formula:



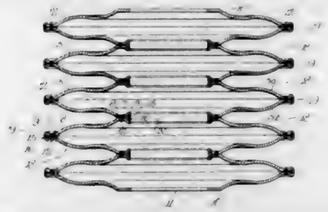
wherein R is selected from the group consisting of amino and alkyl amino and R_1 is a therapeutically active steroid 3-monosulphate.

2,534,122
TANK TYPE VACUUM CLEANER WITH SUPERIMPOSED ATTACHMENT CARRYING RECEPTACLE
Edwin A. Hamala, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application May 27, 1947, Serial No. 750,821
2 Claims. (Cl. 15—323)



1. For use with a tank type vacuum cleaner having a body, and attachments in the nature of tools to be connected to the body, that improvement comprising a receptacle having a closed top end and an open bottom end of a contour conforming to that of the cleaner body and adapted removably to seat around the cleaner body, a handle on the closed top end, a removable plate member adapted to slide into position edgewise into the open end of the receptacle and to fit above the cleaner body, a handle on said plate for sliding it into and out of the receptacle, clamps for holding the attachments on opposite sides of the plate within the receptacle and means detachably connecting the receptacle directly to the cleaner body, whereby said plate is held within said receptacle

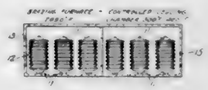
2,534,123
METHOD OF MAKING METAL BELLOWS
Walter C. Hasselhorn, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application May 4, 1944, Serial No. 534,056
3 Claims. (Cl. 148—21.55)



1. The method of making a metal flanged bellows having an expansible and contractible wall of a predetermined spring rate which comprises forming a plurality of diaphragms of metal in a relatively soft or semi-soft or in an annealed state, welding said diaphragms at their peripheries without destroying said soft or semi-soft state of the metal, adjusting the flanges formed by the diaphragms for spacing and concentricity, and heat treating the fabricated unit to impart a predetermined spring rate to said wall.

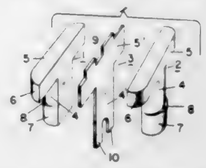
2,534,124
METHOD OF FABRICATING BELLOWS
Walter C. Hasselhorn, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application March 22, 1945, Serial No. 584,048
1 Claim. (Cl. 148—11.5)

The method of fabricating a sectional bellows unit of a desired height and diameter which comprises forming the wall of said bellows by constructing a plurality of individually formed diaphragms with cooperating surfaces at the peripheries, forming a film of metal on said diaphragms to cover said cooperating surfaces, assembling the diaphragms whereby the cooperating surfaces of adjacent diaphragms are brought into contact with each other, subjecting the diaphragms to a thermal treatment fusing the film of metal covering said cooperating



surfaces to effect a union sealing the peripheries of adjacent diaphragms at said cooperating surfaces, maintaining the metal of said diaphragms in a relatively soft state after said thermal treatment, adjusting the concentricity of the united diaphragms and the spacing thereof with respect to each other while the metal is soft to provide the height to be desired in the finished product, and thereafter subjecting the diaphragms as adjusted to a spring tempering treatment to impart a relatively uniform spring rate to said metal.

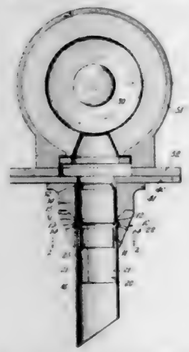
2,534,125
DRAFT KEY RETAINER
Foster F. Hayes, Paducah, Ky.
Application October 12, 1948, Serial No. 54,135
1 Claim. (Cl. 85—5)



A draft key retainer comprising a composite T-shaped pin including a T-head and a shank, the latter to be inserted downwardly through an opening in a draft key until the head of the pin rests upon the top of the draft key to hold the pin against dropping through said opening, said pin being divided longitudinally of its head into two half-sections having planar adjacent surfaces, a plate insertable between said half-sections to spread them apart, and projections on the outer sides of the lower end portions of the half-sections of said shank to underlie the draft key when the pin half-sections are spaced apart by said plate to prevent upward removal of the pin from the opening in the draft key, said plate being of T-shape and including a head interposed between the half-sections of the head of the pin and of a length to have each end portion thereof rest upon the top of the draft key to prevent the plate from dropping through the opening in the draft key, the half-sections of the shank of said pin being of substantially semi-circular shape in cross section and, together with the shank of said plate, when the latter is interposed between them, forming a composite shank of substantially circular shape in cross section and of substantially the same diameter as the opening in the draft key when the latter is unworn, the head of said pin being cooperable with a draft sill to hold said head in a position extending transversely relative to the draft key so that the half-sections of the shank of the pin and the shank of the plate act serially to resist shearing stresses imposed upon

them longitudinally with respect to the draft key, lugs on the top of the head of said plate to overlie the tops of the half-sections of the head of said pin, and lugs on the bottom of the shank of said plate to be bent into underlying relationship to the bottoms of the half-sections of the shank of said pin to hold the pin half-sections and the plate against vertical movement relative to each other.

2,534,126
X-RAY SPECULUM
Oswald Conrad Hollstein, Secaucus, N. J., assignor to F-R Machine Works, Woodside, N. Y., a firm
Application September 4, 1948, Serial No. 47,900
6 Claims. (Cl. 250—105)



1. A device of the class described comprising a coupling head, an elongated X-ray permeable tube demountably carried by said head, said head having a recess therein, an X-ray shield located in said tube, means secured to said shield and extending outwardly therefrom, said means located in said recess and a split ring located in said tube and bearing against the inside surface of said shield to maintain said shield in position in said tube.

2,534,127
METHOD OF MANUFACTURING VITRIFIED GRINDING WHEELS
Wallace L. Howe, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 10, 1947, Serial No. 747,171
34 Claims. (Cl. 25—156)

4. The method of producing a disc shaped vitrified grinding wheel with no strain and grading the same on each side which comprises coating a quantity of refractory abrasive grains with wax in a sticky state, adding powdered vitrifiable bond to said abrasive grains coated with sticky wax and mixing whereby each grain becomes coated with a mixture of wax and powdered bond, adding an anti-sticking agent to the coated abrasive grains and further mixing, placing a quantity of the resulting mix in a mold comprising a pair of mold plates in a round mold band, compressing said mold to cause said plates to move towards each other in the mold band while given points on the respective plates are always at equal distances from a mid-plane of the mold band, removing the green wheel from the mold, firing the green wheel by heat directed at opposite sides thereof in substantially equal thermal units of heat for given periods of time, then annealing the wheel by allowing the heat to leave the wheel from the sides thereof.

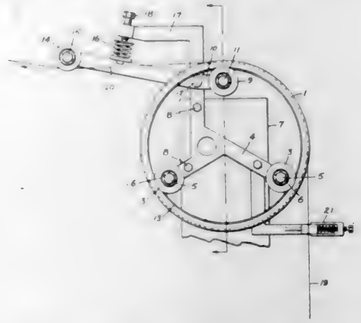
2,534,128
DRY GRANULAR MIX
Wallace L. Howe, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application July 30, 1949, Serial No. 107,821. In Great Britain August 30, 1948
22 Claims. (Cl. 51—304)

1. A dry granular mix comprising particles of hard refractory material each coated with a considerable number of fine particles of vitrifiable ceramic bond mixed with wax, the bond and wax forming an envelope which surrounds a particle, each particle of refractory material having such envelope, and a coating of a fine meal derived from vegetable seed, said fine meal containing at least 10% and not more than 50% of fatty ester, on each such envelope.

2,534,129
DRY GRANULAR MIX
Wallace L. Howe, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application June 28, 1949, Serial No. 101,909
11 Claims. (Cl. 51—305)

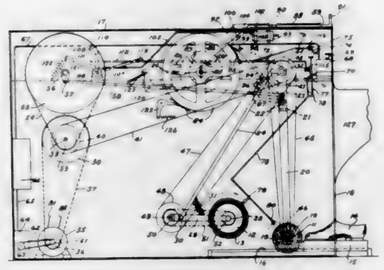
1. A dry granular mix comprising particles of hard refractory material each coated with a considerable number of fine particles of vitrifiable ceramic bond mixed with wax, the bond and wax forming an envelope which surrounds a particle, each particle of refractory material having such envelope, and a coating of amorphous carbon powder on each such envelope.

2,534,130
WIRE TENSIONING DEVICE
William R. Hunt, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 30, 1949, Serial No. 136,053
10 Claims. (Cl. 242—155)



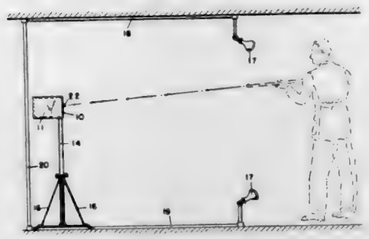
1. A wire tensioning device comprising a spokeless ring adapted to have said wire passed therearound, a plurality of idler rollers engaging the inner surface of said ring for rotatably supporting said ring, at least one of said rollers being mounted on one end of a movable lever arm, resilient means for urging said one roller against said ring providing rolling friction thereon, and an idler pulley mounted on the other end of said lever arm and adapted to bear on the wire leaving said ring whereby increased tension on said wire causes said one roller to apply less pressure on said ring permitting said ring to turn more freely.

2,534,131
ROTARY BRUSH MEANS FOR SHOE SHINING MACHINES
James L. Jenkins, Milwaukee, Wis., assignor, by mesne assignments, to Associated Industries, Inc.
Application September 30, 1946, Serial No. 700,257
7 Claims. (Cl. 15—32)



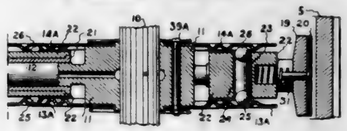
7. A shoe shining machine comprising, a shoe support, a drive shaft disposed above said support, a pair of side brushes disposed on opposite sides of said support and being oscillatable along said support about the axis of said shaft, means for permitting each of said brushes to swing laterally toward and away from said support about an axis perpendicular to the axis of said shaft, said brushes being normally biased toward each other, and a toe brush disposed above said support and also being oscillatable along the support about the axis of said drive shaft.

2,534,132
PHOTOGRAPHIC APPARATUS
David P. Keefe, Marblehead, Mass.
Application June 22, 1948, Serial No. 34,395
13 Claims. (Cl. 273—102.2)



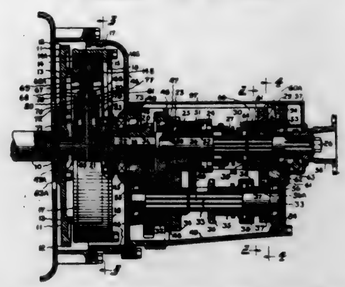
1. Apparatus of the character described comprising, in combination, a target, a camera focused on a person firing at the target, shutter means for the camera including a normally closed shutter and means for opening the shutter, normally de-energized illuminating means directed on said person, and electro-mechanical means responsive for its actuation to a target hit and being operative to energize said illuminating means and to actuate said shutter opening means in predetermined timed relationship, said last means including an arm mounted for angular movement from an inactive position, latching means normally operative to secure said arm in its inactive position, and a target-controlled switch for rendering said latching means ineffective.

2,534,133
CENTRIFUGAL CLUTCH
Herwald Gordon Kirkpatrick, Edgecliff, near Sydney, New South Wales, Australia
Application August 20, 1946, Serial No. 691,730
In Australia August 25, 1945
8 Claims. (Cl. 192—105)



1. In a clutch a rotatable member, a member to be clutched to said rotatable member, a clutch member for engaging said member to be clutched and adapted to be rotated by said rotatable member, a weight mounted in relation to the rotatable member so as to be driven outwardly by centrifugal force when the rotatable member is rotated, resilient means interposed between the weight and the clutch member and acting when compressed therebetween to provide at one side the force for engaging the clutch member with the member to be clutched and at the other side a force for opposing the centrifugal force exerted by the weight and means whereby when the resilient means has been compressed to a predetermined extent an additional force, independent of the centrifugal force and acting in the direction opposing release of the compression of the resilient means, is brought to bear on the resilient means, said means comprising an abutment on the weight engaging a spring diaphragm having inner and outer annular ramp surfaces on the side adjacent the weight and convergent towards the weight.

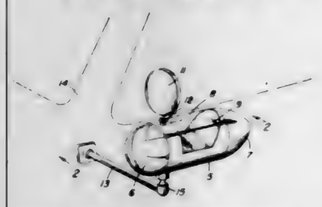
2,534,134
AUTOMATIC TRANSMISSION GEAR BOX
Herwald Gordon Kirkpatrick, Edgecliff, near Sydney, New South Wales, Australia
Application October 14, 1946, Serial No. 703,256
In Australia November 13, 1945
5 Claims. (Cl. 74—330)



1. A gear box having an input shaft, an output shaft, a drive shaft, coupling means including an overrunning clutch for coupling the drive shaft to the output shaft so that the drive shaft can drive the output shaft but the output shaft can overrun the drive shaft, a second drive shaft, coupling means between the second drive shaft and the output shaft, a clutch for coupling the first drive shaft to the input shaft and centrifugal means for controlling the automatic engagement of the clutch at a predetermined speed of the input shaft, a second clutch for coupling the second drive shaft to the input shaft and centrifugal means driven by the second drive shaft for controlling the automatic engagement

of the second clutch at a higher predetermined speed and the automatic release of the second clutch at a predetermined lower speed than its speed of engagement.

2,534,135
FRONT VIEW MIRROR FOR VEHICLES
David L. Lahr and August Schwitalla, St. Cloud, Minn.
Application October 13, 1948, Serial No. 54,256
2 Claims. (Cl. 88—87)



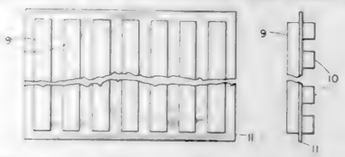
1. A front view mirror comprising a hollow cylindrical body closed at its rear end, a transparent cap at the front end of the body, a window in the top of the body, a mirror supported in the body, rearwardly of the window, and a mirror supported in an upstanding position on top of the body forwardly of the window, said mirrors facing each other to reflect an image from a point forwardly of the body onto the second named mirror.

2,534,136
PIGMENTS AND MOLDING POWDERS COMPRISING POLYVINYL ACETAL RESINS DYED WITH VAT DYES
Louis Amédée Lantz, Arthur Schofield, and Ernest Spinner, Manchester, England, assignors to The Calico Printers' Association Limited, Manchester, England, a British company
No Drawing. Application March 30, 1948, Serial No. 18,083. In Great Britain April 17, 1947
6 Claims. (Cl. 260—41)

1. In the manufacture of pigments and colored molding powders, the process which comprises dyeing a finely-divided, partial polyvinyl acetal of an aromatic aldehyde, selected from the group consisting of aldehydes of the benzene and naphthalene series, and having a ratio of hydroxyl groups to acetal and ester groups ranging from about 40:60 to 60:40; a sufficient number of aromatic acetal groups being present to render said partial polyvinyl acetal insoluble in water; by mixing with said acetal a leuco-derivative of a vat dyestuff in an aqueous alkaline medium containing a reducing agent at a temperature within the range of about 50° to 100° C., washing the dyed acetal to remove unfixed leuco-derivatives, oxidizing the fixed leuco-derivative in an acid medium to regenerate the original dyestuff and recovering the resulting dyed product; the said partial polyvinyl acetal having an average particle size not substantially exceeding 3.5 microns.

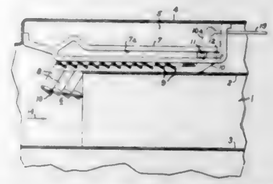
2,534,137
VIBRATION ISOLATOR PAD
Robert C. Lewis, New Haven, Conn., assignor to The M B Manufacturing Company, Inc., New Haven, Conn., a corporation of Connecticut
Application March 25, 1946, Serial No. 657,035
3 Claims. (Cl. 154—44)

1. A vibration isolator pad of resilient, natural or synthetic rubber and comprising a row of spaced parallel ribs each rectangular in cross-section, in combination with a second row of similar ribs of similar composition running at right angles to the ribs in the first row, the side walls of said ribs lying in planes normal to the plane of juncture of the two rows of ribs, there being



a multiplicity of ribs per inch, and the resilient material in each row of ribs being integrally molded with the resilient material in the other row where the ribs cross, whereby slippage of the ribs on each other is avoided, the maximum lateral stiffnesses are obtained, and the lateral stiffnesses under load are equal.

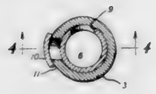
2,534,138
PROTECTIVE DEVICE FOR GAS TURBINES
Daniel Q. Marshall, Madeira, Ohio, assignor to General Electric Company, a corporation of New York
Application October 25, 1949, Serial No. 123,382
1 Claim. (Cl. 183—33)

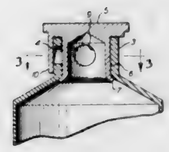


In combination, spaced first and second walls forming surfaces of revolution defining a first annular fluid passage, a third wall secured to said first wall and spaced therefrom to define a second fluid passage surrounding said first passage, said first wall also defining a plurality of tangentially extending openings communicating between said first and second passages, a grille comprising a plurality of segments having inner and outer edge portions and forming a substantially continuous conical surface extending through said openings and between said first and second walls, the inner edge portion contacting said second wall at a location upstream from said openings and said outer edge portion being located within said second passage, means for supporting said grille comprising a support member secured to said first wall and within said second passage and having an axially extending slot therein, pivot means connected to said segments and supported in said slot, and retraction means connected to the outer edge portions of said segments, whereby initial movement of said retraction means causes said segments to pivot relative to said support member and subsequent movement of said retracting means causes said segments to be transferred from said first passage to said second passage.

2,534,139
CLOSURE FOR DISPENSING TUBES AND THE LIKE
Gordon F. McLaughlin, Fort Worth, Tex.
Application April 30, 1947, Serial No. 745,005
1 Claim. (Cl. 222—545)

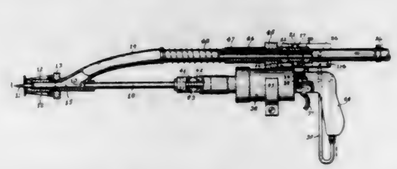
In a closure for a dispensing container, the combination of a neck integral with the said container, a cap having a hollow portion rotatably received within the said neck, an opening within the said hollow portion, a cam on the side of the said neck, an opening through the said cam for





registering with the first named opening, a shield integral with the said cap for frictionally engaging the said cam, and a flange at the lower end of the said hollow portion for rotatably engaging the said neck.

2,534,140
MANUALLY APPLIED POWER-DRIVEN MACHINE FOR AUTOMATICALLY DELIVERING AND DRIVING A FASTENER
Edgar S. Moore, Toronto, Ontario, Canada, assignor to Air-A-Feed Equipment, Inc., Worcester, Mass., a corporation of Massachusetts
Application February 14, 1948, Serial No. 8,355
17 Claims. (Cl. 144—32)

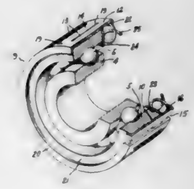


1. A fastener feeding and driving mechanism comprising a movable tool having a body, a manually applied and reciprocable fastener supporting and driving head slidably mounted on said body to move between driving and inoperative rest positions, a driver and associated power mechanism for driving a fastener in the head, a tube for delivering a fastener to the head, a relatively stationary fastener magazine which is remote from the tool, a fastener carrier arranged to receive and hold a fastener delivered from the magazine and which is movable to transport and deliver the fastener to said tube, means including a motor connected to move the carrier between the receiving and delivering positions, motor control mechanism rendered effective by movement of the head towards a driving position which automatically causes the motor to move the carrier to one position and remain there during driving of a fastener and to move to the other position when the head becomes inoperative, and mechanism operated in timed relation with the carrier movement which causes a single fastener to be delivered from the magazine to the carrier when the latter is in a receiving position.

2,534,141
HEAT-TREATMENT OF COLD ROLLED SILICON STEEL STRIP
Weston Morrill and Cecil G. Dunn, Pittsfield, Mass., and Raymond Ward, Richland, Wash., assignors to General Electric Company, a corporation of New York
No Drawing. Application January 14, 1948, Serial No. 2,327
7 Claims. (Cl. 148—12.5)

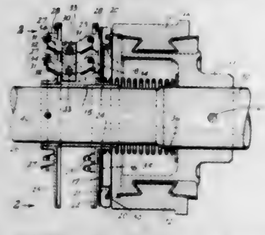
1. The method of heat treating cold rolled silicon steel strip containing 1.5 to 4% silicon which has been decarburized at about 800° C. which method comprises holding the strip in a temperature range of from 850° to 900° C. which encourages the nucleation or first appearance and growth of (110) [001] crystals until at least 75% of the fine grained matrix has been absorbed by the growth of such crystals followed by heat treatment at a higher temperature of from 900° to 1200° C. which will permit further growth of the (110) [001] crystals and perfection of the texture of said cold rolled strip and relieve mechanical strain.

2,534,142
BEARING MOUNTING
Cecil J. Morton, Coventry, and Thomas H. Woodfield, Birmingham, England, assignors to General Electric Company, a corporation of New York
Application July 20, 1949, Serial No. 105,792
In Great Britain August 27, 1948
1 Claim. (Cl. 308—184)



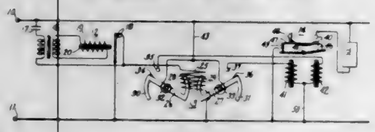
In a bearing assembly including a bearing housing member having a cavity formed therein and a bearing positioned in said cavity, a resilient bearing mounting member arranged intermediate the outer surface of said bearing and the inner surface of said cavity for securing said bearing in said housing, said mounting member comprising a band of springy material with spaced apart ends arranged around the outer surface of said bearing, one circumferential edge of said band having an annular flange portion engaging one end of said bearing, the other circumferential edge of said band having an annular flange portion spaced from the other end of said bearing, and resilient means interposed between said last-named flange portion and said other end of said bearing for cushioning axial movement of said bearing, said band having a plurality of transverse slots formed therein defining resilient segments therebetween, said segments being substantially flat with the transverse center portion of each segment engaging the outer surface of said bearing and the edges of each segment engaging the inner surface of said cavity whereby said bearing is securely held in place.

2,534,143
CENTRIFUGALLY ACTIVATED CIRCUIT CHANGING MECHANISM
Chester S. Phillips, St. Louis, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application July 5, 1947, Serial No. 759,073
9 Claims. (Cl. 172—279)



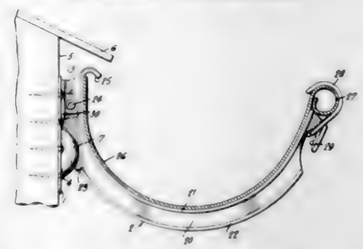
1. In a centrifugal actuator for mounting on a rotary shaft, a first member mounted on the shaft for rotation therewith, a second member mounted for axial movement relatively to the shaft, a centrifugal weight, a pair of parallel links pivotally connecting the weight with the second member, the links of the pair being disposed at different distances from the axis of the shaft to determine the path of movement of the weight relatively to the second member, and link means pivoting the weight to the first member.

2,534,144
SINGLE-FREQUENCY CARRIER CURRENT CONTROL SYSTEM
David Ralph Price, deceased, late of Urmston, England, by William Swift Wade, administrator, Urmston, England, and Albert Grayson, Patricroft, England, assignors to General Electric Company, a corporation of New York
Application March 5, 1948, Serial No. 13,234
In Great Britain March 6, 1947
5 Claims. (Cl. 175—320)



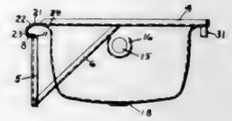
1. A carrier current control system adapted to be energized from a commercial frequency power line and to be controlled by a relatively high-frequency superimposed carrier signal selectively modulated at one of a plurality of different, relatively low frequencies, comprising a first relay having a pair of contacts, means for energizing said relay in response to said carrier signal, said relay being arranged to open and close said pair of contacts at any selected modulation frequency, a second relay comprising a control winding, means for connecting said winding in circuit with said commercial frequency power line when said contacts are closed, said second relay further comprising a plurality of cooperating armatures, each of said armatures being resiliently mounted and having a natural mechanical period of vibration corresponding to a different one of said low modulation frequencies, contact means controlled by each armature and arranged to be closed in response to a predetermined amplitude of armature vibration, controlled apparatus comprising a plurality of circuits, and means for energizing each of said circuits in response to closure of one of said contact means.

2,534,145
BRACKET AND CHANNEL CIRCLE GUTTER SUPPORT
Max Rachlin, Flushing, N. Y.
Application July 10, 1950, Serial No. 172,853
10 Claims. (Cl. 248—48.2)



1. An article of the character described, comprising a substantially flat attaching bracket and a channel-shaped gutter circle, said gutter circle extending at right angles to the plane of said plate, a part of the outer leg of said channel-shaped circle extending parallel to said plate, and securing means extending through the web of said channel-shaped circle and a portion of said plate, another part of said outer leg being bent outwardly and seating in load bearing relationship against another portion of said plate.

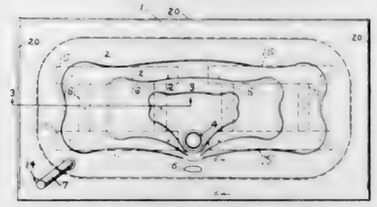
2,534,146
BATHTUB AND METHOD OF PRODUCING THE SAME
Clarence J. Rodman, Alliance, Ohio
Application March 19, 1946, Serial No. 655,515
7 Claims. (Cl. 4—173)



3. A porcelained steel bathtub with at least a portion of the rim thereof bent down and back, a steel apron below said portion with an inwardly extending flange at the top thereof, the flange being welded to the backwardly bent portion of the rim with the steel surfaces of the flange and rim in face-to-face contact, the recess at the outside of said union of the rim and flange being protected with ground coat on which there is substantially no cover coat.

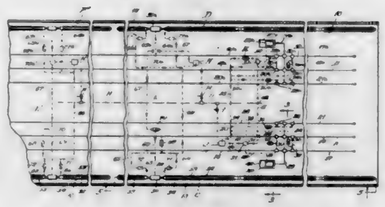
5. The method of manufacturing a bathtub which comprises drawing the bell in a single sheet of steel to produce a tub with a rim, trimming the front edge of the drawn sheet to form a straight edge substantially parallel with the center line of the tub and bending downwardly a narrow flange at the edge thereof, uniting to the flange an apron with a top flange which is narrower than the flange on the tub and which is bent backward from the face of the apron by bringing the flanges together with the edges thereof substantially coinciding and welding the edges at the interface, and then further bending the rim so that the flange on the tub extends backwardly, thereby bringing the apron to a substantially vertical position so that the apron and bent rim conceal the weld and the bell of the tub, and the front part of the backwardly extending portion of the rim protrudes forwardly from the apron to serve as a grab rail.

2,534,147
BATHTUB
Clarence J. Rodman, Alliance, Ohio
Application April 1, 1946, Serial No. 658,695
8 Claims. (Cl. 4—173)



1. A bathtub, the lowest area of the bottom in which the drain is located being substantially level, being separated from the adjacent bottom area, by a shallow step, extending from the base of the front wall of the tub to beyond the longitudinal center, and being large enough for an adult to stand upon.

2,534,148
COMBINED RADIANT AND AIR HEATING SYSTEM
Edward A. Russell and Frost B. Rutherford, Chicago, Ill., assignors, by mesne assignments, to Vapor Heating Corporation, a corporation of Delaware
Application June 21, 1947, Serial No. 756,222
2 Claims. (Cl. 237—6)



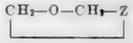
2. The combination with a railway car having an enclosed body provided with a main floor and a sub-floor, of a steam heating system for the car comprising floor heating elements arranged in separate groups at opposite sides of the longitudinal center of the car and positioned between said floors for delivering radiant heat into the car through the main floor, heat insulating material interposed between said heating elements and the sub-floor, separate electrically controlled inlet valves positioned at opposite sides of the car responsive to changes in temperature at predetermined locations within the car for controlling the admission of steam to the separate groups of heating elements, means for supplying steam to said valves at low pressure comprising a conduit loop exclusive of the heating elements and extending transversely of the car, a thermostatic valve in said loop dividing it into a steam supply side and an outlet side, the latter of which is open to the atmosphere, branch inlet pipes leading from the steam supply side of said loop to the separate inlet valves, a plurality of connected branch discharge outlets leading from a plurality of heating elements of the several groups to the outlet side of said loop, and a thermostatic valve responsive to the combined temperatures of said outlet branches to open and close said outlet branches.

2,534,149
PREPARATION OF ORGANO-SUBSTITUTED POLYSILOXANES
Robert O. Sauer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application May 22, 1947, Serial No. 749,877
12 Claims. (Cl. 260—448.2)

1. The process which comprises heating at a temperature above 125° C. a mixture of ingredients comprising (1) a compound corresponding to the general formula R_nSiX_{4-n} where R is a monovalent hydrocarbon radical selected from the class consisting of alkyl, aryl, aralkyl and alkaryl radicals, X is a halogen, and n is a whole number equal to from 1 to 3, and (2) a compound selected from the class consisting of

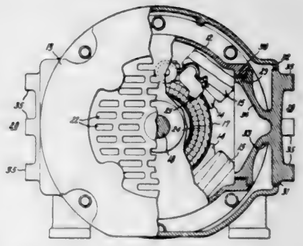
$$R'—CH_2—O—CH_2—R'', \quad R'—CH_2—O—R'''$$

and



where R' and R'' are each a member of the class consisting of hydrogen and monovalent hydrocarbon radicals selected from the class consisting of alkyl and aryl radicals, R''' is a monovalent aromatic hydrocarbon radical, and Z is a saturated bivalent radical selected from the class consisting of (A) unsubstituted alkylene radicals and (B) bivalent radicals of the general formula $—O—(CH_2O)_x—$ in which x is an integer equal to at least 1 and not more than 3.

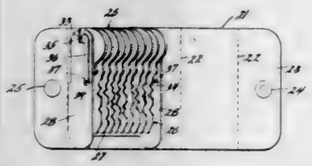
2,534,150
DYNAMOELECTRIC MACHINE
Dean F. Smalley, East Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application November 3, 1949, Serial No. 125,186
4 Claims. (Cl. 172—36)



1. In a dynamoelectric machine having internal members subject to having heat generated therein during operation and having a collector subject to sparking during operation and having an explosion-proof inner housing enclosing said internal members and said collector and having an outer ventilating medium housing spaced from said inner housing to provide for the flow of ventilating medium between said housings, means affording access to the interior of said inner housing, said means comprising an opening in said outer housing and a co-axial opening in said inner housing, and a unitary closure member for said openings, with said closure member adapted to threadedly engage the edges of said opening in said inner housing to form a fluid tight seal with said inner housing to prevent explosive mixtures in said ventilating medium being affected by said sparking, said closure member having an outer flange adapted to substantially close said opening

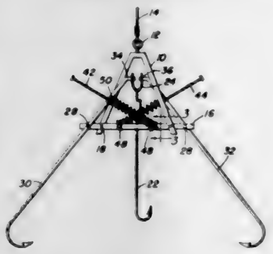
in said outer housing and having a narrowed neck portion to provide minimum interference to the flow of said ventilating medium over said inner housing thereby to allow maximum transference of said heat generated in said internal members.

2,534,151
KEY HOLDER
Kenneth A. Valentine, Mesilla Park, N. Mex.
Application December 7, 1945, Serial No. 633,424
15 Claims. (Cl. 70—456)



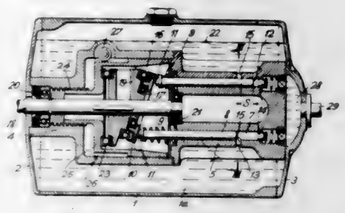
5. In a keyholder, the combination of a key supporting framework comprising a flat plate having a pair of rigid parallel wings projecting from one side thereof and inclined at an approximately acute angle to said plate, and a cross bar removably connected to said wings and shaped to loosely carry a plurality of apertured keys, said cross bar being flattened on its horizontal dimension, said wings having slots in their adjacent opposed ends for reception of the ends of said bar, said bar having extensions bent flatwise and lying against surfaces of said wings, and said wings and said extensions having complemental means for releasably latching them together.

2,534,152
FISHHOOK
Ralph W. Van Arkel, Oskaloosa, Iowa, assignor of fifty per cent to Ralph B. Kempenaar, Oskaloosa, Iowa
Application January 11, 1949, Serial No. 70,314
1 Claim. (Cl. 43—89)



A fish hook comprising an inverted substantially V-shaped frame, means for securing the apex of said frame to a fishing line, a bar secured across and extending beyond the legs of said frame, a bait hook vertically slidable through said bar intermediate its ends, said hook including a fork at its upper end and a stop adjacent the fork to limit downward movement of the fork, elongated fish-engaging hooks pivoted intermediate their ends to the ends of said bar, said fish-engaging hooks including inturned apertured portions at their upper ends removably receiving the legs of said fork to retain the fish-engaging hooks in a spread apart position, and means responsive to a downward pull in said bait hook for urging the fish-engaging hooks in a closed position, said means including inclined rods each of which is terminally pivoted to said bar adjacent said bait hook, stops carried by said bar, stops on said fish-engaging hooks for slidably receiving said rod, and a coil spring about each rod and interposed between a pair of stops normally urging said fish-engaging hooks toward a closed position.

2,534,153
AXIAL CYLINDER PUMP ESPECIALLY INTENDED FOR MOVING LIQUIDS
Leo Widmer, Feldbach-Zurich, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application May 1, 1946, Serial No. 666,308
In Switzerland March 11, 1946
3 Claims. (Cl. 103—37)

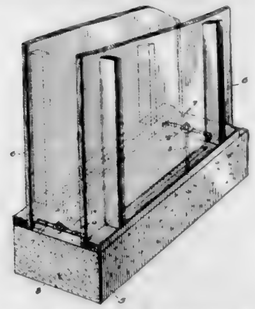


1. A pump, especially intended for moving liquids, comprising a drive shaft, a cylinder block, a plurality of cylinders in said block arranged in parallel and in a circle concentric with said drive shaft, a piston reciprocable in each cylinder, each cylinder having an inlet port over which the end of the piston slides, an oblique disk of constant slant associated with said pistons in power transmitting relation, a carrier member for said disk mounted for rotation with said drive shaft and for axial movement along said shaft to vary the beginning of the pressure stroke of the pistons by axial movement of said oblique disk relatively to said inlet openings, said disk being rotatably journalled on the carrier member, a stationary casing secured to said cylinder block and surrounding said carrier member and oblique disk, an axially movable sleeve member disposed concentrically with said drive shaft and having a larger diameter than said oblique disk, said sleeve member being guided for axial movement within said casing, and a thrust bearing mounted between said sleeve member and said carrier member for directly transmitting axial thrust from one member to the other.

2,534,154
ANCHOR LOCK FORM ALIGNER
Chester I. Williams, Grand Rapids, Mich.
Application January 22, 1948, Serial No. 3,802
2 Claims. (Cl. 25—131)

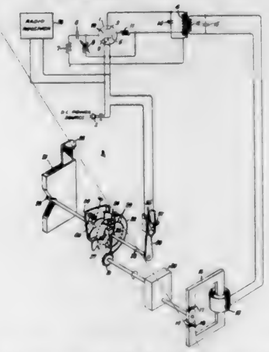
1. In a form aligner, the combination of a rod adapted to be partially embedded in a concrete footing, a pair of rectangularly-shaped form aligning bars spaced apart a safe distance to permit the passage of said rod therebetween, said bars lying in substantially parallel planes, means rigidly connecting said bars adjacent a pair of corresponding ends thereof for maintaining the bars in their relative positions, said rod having a threaded upper end adapted to extend above the upper longitudinal edges of said bars, a washer on said rod seated on said longitudinal bar edges and having downwardly extending flanges engageable with the outer side faces of

the respective bars to prevent spreading thereof, and a nut threaded on the upper end of said rod



bearing on said washer and adapted to clamp the bars in place on a footing.

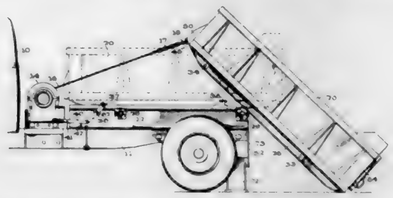
2,534,155
CLOCK TIMER
Harley C. Wintle, Salina, N. Y., assignor to General Electric Company, a corporation of New York
Application October 11, 1946, Serial No. 702,731
2 Claims. (Cl. 161—1)



1. In a coin controlled direct current operated radio receiver, a direct current power source, a switch for said source, an electronic oscillator with a parallel tuned resonant circuit, an alternating current motor comprising an operating inductance winding, means for magnetically isolating said resonant circuit and operating winding for direct current, means for inductively coupling said operating winding to said resonant circuit, a reduction gear assembly for said motor, coin actuated means arranged to drive said assembly to close said switch to provide direct current energy to said receiver and to said oscillator, said switch being arranged for opening by operation of said assembly by said motor to de-energize said receiver and said oscillator.

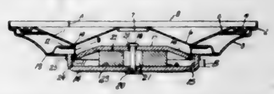
2,534,156
LOADING AND UNLOADING DEVICE FOR VEHICLE BODIES
Thomas A. Wyatt, Collie C. Wyatt, and Rue T. Wyatt, Tyler, Tex.
Application December 16, 1948, Serial No. 65,674
8 Claims. (Cl. 214—84)

1. A loading and unloading apparatus for vehicle bodies, said apparatus comprising a unit including a track forming frame, a pair of body supporting runners adapted to be guided by said tracks, fluid actuated means pivotally mounted to said frame for pushing the body longitudinally of the tracks, a first rod pivotally mounted on said frame and extending transversely thereof, trigger members fixed to said rod and extending upwardly adjacent said tracks, a support member fixed to said rod and extending upwardly between said tracks, resilient means depending



from said support member and having supporting connection with said fluid actuated means, a second rod fixed to said runners and engageable with said trigger members to angularly elevate said fluid actuated means during the loading of a body on said frame, a hook member fixed to said first rod and adapted to receive said second rod, and an operating lever pivoted to said hook member and adapted to be latched to said frame to lock the body thereon.

2,534,157
SOUND REPRODUCING DEVICE
Siegfried Zuerker, Pennellville, N. Y., assignor to General Electric Company, a corporation of New York
Application June 4, 1949, Serial No. 97,234
8 Claims. (Cl. 179—115.5)

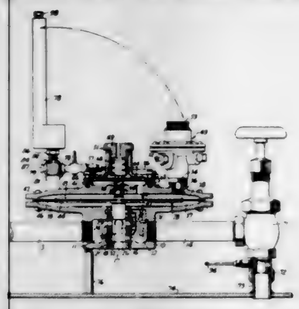


1. A permanent magnet field structure for an electrodynamic loudspeaker comprising a permanent magnet, a pair of opposed cup-shaped pole pieces of substantially larger diameter than said magnet and having base portions respectively located in spaced parallel planes, means for holding said magnet between said opposed pole pieces in concentric relation thereto, said pole pieces having interfitting edges located in a third plane located intermediate said parallel planes and spaced to provide an axially disposed annular air gap therebetween.

2,534,158
COMPARTMENT TESTING APPARATUS
Douglas H. Annin, Oakland, Calif., assignor, by mesne assignments, to Grove Regulator Company, a corporation of California
Application September 29, 1945, Serial No. 619,294
3 Claims. (Cl. 73—40)

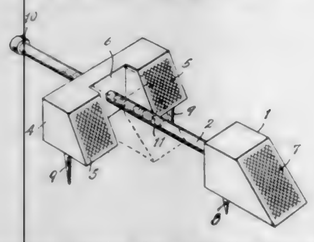
1. In a compartment tester, a pressure reducing regulator having inlet and outlet passages, means for coupling the outlet passage to the compartment to be tested, means for coupling the inlet passage to a source of air under pressure, a pressure indicating manometer, and means forming a swivel mounting for the manometer on the body of the regulator whereby the manometer can be placed in vertical operating posi-

tion for either horizontal or vertical positioning of the regulator body, and means including said



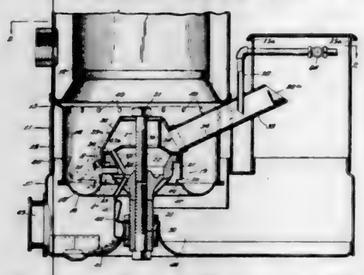
mounting for connecting the pressure chamber of said manometer to the compartment.

2,534,159
STARTING BLOCK
Clarence J. Brouwer and Irvin J. Drake, Grand Rapids, Mich.
Application November 8, 1948, Serial No. 59,004
8 Claims. (Cl. 272—59)



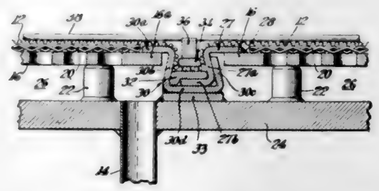
4. Starting blocks for athletic events comprising, a front block having a forwardly inclined starting pad and an anchoring pin projecting from the bottom thereof, a rod secured to said front block and projecting to the rear thereof, a rear block slidably mounted on said rod and having right and left inclined starting pads on the forward face thereof.

2,534,160
OIL BURNER WITH RADIAL FUEL NOZZLES
Alick Clarkson, Itasca, Ill., assignor of one-half to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application November 28, 1947, Serial No. 788,483
9 Claims. (Cl. 158—53)



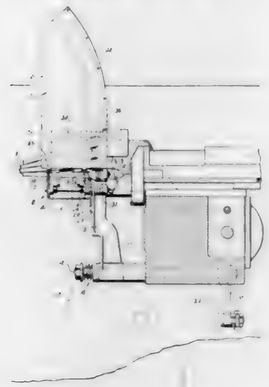
1. In apparatus for burning gaseous fuel, means defining a combustion chamber, a burner element positioned in the combustion chamber and provided with a plurality of nozzles for delivering gaseous fuel into said chamber and arranged with their long axes radiating from a common vertical axis, means defining separate air passages surrounding the discharge ends of the several fuel nozzles for admitting into the combustion chamber streams of air in the form of envelopes surrounding the several streams of gaseous fuel discharged from the nozzles; each of the said air passages being arranged in a vertically eccentric position relative to the discharge end of its associated nozzle and with the greatest spacing between the nozzle and the walls of the air passage being located beneath the nozzle, whereby the volume of air supplied to the lower portion of the gaseous stream discharged from said nozzle is greater than the volume of air supplied to the upper portion thereof and thereby turns the flame upwardly.

2,534,161
FILTER DRUM SCREEN FASTENING MEANS
Raymond R. Collins, Southport, Conn., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application November 6, 1948, Serial No. 58,661
2 Claims. (Cl. 210—202)



1. In a drum type continuous filter of the class described, having a drum shell, a plurality of support buttons extending above and mounted on the drum shell, a series of substantially U-shaped division strips extending longitudinally of the shell and integrally secured thereto, the side walls of the divisions strips being narrower at the open end than at the base to form a substantially dovetail recess, one of the side walls of the division strip being planar in a plane substantially perpendicular to the drum shell, the other side wall of the division strip being provided with a laterally projecting flange substantially parallel with the drum shell and approximately spaced from the drum shell the height of the support buttons, rigid arcuate filter cloth backing panels extending between each of the division strips, a Z-shaped member extending along one edge of each of said panels and having a flanged portion overlying the edge of the panel, the base and side of the Z-shaped member being closely embraced against the base and the planar wall of the division strip, said panels being uniformly spaced from the drum shell by the support buttons, and of a width to be held under the fixed flange of the division strip and the flanged portion of the removable Z-shaped member, a caulking material engaging the free edge of the Z-shaped member and the lower portion of the dovetail recess in the division strip, a filter cloth extending over said panels and into said dovetail recess engaging the outer side of said caulking material, and separate caulking material on top of said filter cloth and within the narrow opening of said dovetail recess to independently retain the filter cloth on said filter.

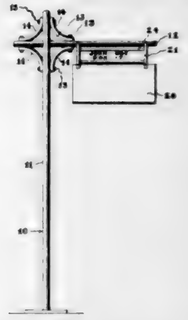
2,534,162
DONNING MECHANISM FOR BOBBIN HANDLING MACHINES
Russell P. Drake, Caledonia, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application September 22, 1945, Serial No. 617,955
7 Claims. (Cl. 242—1)



1. In a winding machine having a magazine for supporting a stack of empty bobbins and a winding spindle at one side of the magazine, a bobbin donning mechanism comprising a cradle normally positioned beneath the magazine and serving to support the stack of bobbins therein with the lowermost bobbin received in the cradle, said cradle being mounted for movement from its normal position to carry a bobbin to the winding spindle, an escapement device normally positioned out of the path of downward movement of the stack of bobbins in the magazine and operative as an incident to the movement by said cradle of the lowermost bobbin toward the spindle to engage and hold the next lowermost bobbin whereby to support the remaining bobbins in the magazine, and cam means movable with the cradle and engageable with said next lowermost bobbin to lift the same together with the bobbins above it to permit entry of said escapement device into position beneath the lowermost bobbin.

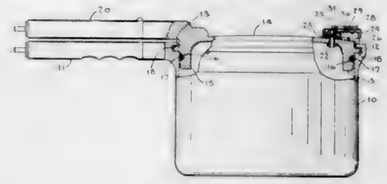
2,534,163
MAILBOX SUPPORT AND SIGN
Winford L. Enghauser, Cincinnati, Ohio
Application February 26, 1947, Serial No. 730,919
2 Claims. (Cl. 40—128)

1. A rural delivery mail box support assembly adapted to be secured to and depend from a horizontally disposed hanger bar comprising; a pair of support brackets disposed in spaced parallel relationship; each bracket including a pair of support strips having attachment flanges at the respective upper ends adapted to be secured to the hanger bar and attachment flanges at the respective lower ends configurated to conform to the contour of the top of a rural delivery mail box and adapted to be secured thereto; a rectangular nameplate; the support strip of both pairs being spaced to embrace the respective ends of the name plate; said name plate being of laminated construction including a filler element disposed between two outer plate members, with the outer plate members being stenciled to expose the filler element in name wording; frame strips at the upper and lower edges of the respective outer plates; said support strips, frame strips and name plate having aligned bores therethrough at the four corners of the name plate; and fastening



means extending through said bores and adapted to draw said support strips toward each other against said frame strips whereby the parts of the assembly are secured together as a unit.

2,534,164
PRESSURE COOKER
Leonard E. Finch, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application June 14, 1946, Serial No. 676,671
6 Claims. (Cl. 220—44)

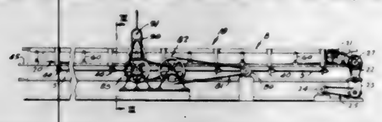


1. In a pressure cooker, a container having a cover holding lug, a cover for said container, said cover having a laterally projecting rim insertable under said lug, said cover being rotatable with respect to said container for a predetermined distance to effect a complete lock between said container and cover, a vent for said container, a loosely hinged valve for said vent movable with said cover, said valve having spaced projections the ends of which normally are spaced slightly from said rim, said valve and lug being relatively angularly spaced so that for said predetermined distance one of said projections is rideable up and on said lug and the other projection is rideable on said rim to raise said valve and open said vent.

2,534,165
AGITATING ELECTROPLATING MECHANISM
Charles L. Fread, Adrian, Mich., assignor, by mesne assignments, to Gerity-Michigan Corporation, Adrian, Mich., a corporation of Michigan
Application December 29, 1945, Serial No. 637,849
2 Claims. (Cl. 204—202)

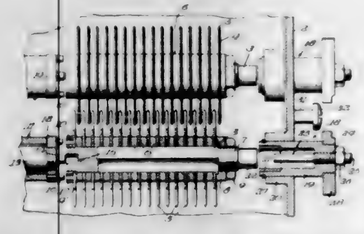
1. In combination with an apparatus for moving work pieces longitudinally through an elongated electroplating tank comprising an endless chain at each side of said tank, power carrying

buss bars at each side of said tank, work holding electrode rods spanning said tank from side to side, means for supporting the ends of said electrode rods upon the buss bars and in constant sliding contact therewith, and means attached to said endless chains for sliding said



electrode rods along said buss bars, eccentric means to impart vertical reciprocation to said buss bars while the rods remain in sliding contact therewith, and shock absorbers mounted on said tank and attached to said buss bars to partially restrain the downward movement of said buss bars and said electrode rods.

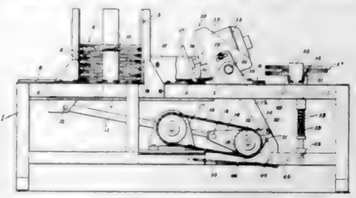
2,534,166
MEAT TENDERING MACHINE
Walter W. Gierke, Oscar E. Brownsey, and Veryl F. Frye, La Porte, Ind., assignors to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana
Application September 27, 1947, Serial No. 776,520
3 Claims. (Cl. 17—26)



1. In a machine of the class described, spaced supporting brackets, knife shafts having a plurality of knife blades thereon and extending between said brackets, bearing members rotatably and slidably mounted in one of said brackets for releasably supporting said shafts, said bearing members being slidable to shaft supporting and to shaft releasing positions, a locking knob on the outer end of each bearing member, and a headed member mounted on said last named bracket between said knobs and adjacent the periphery of said locking knobs, the underside of the headed member being spaced a predetermined distance from the outer surface of said bracket, whereby said knobs may be received within the space between the underside of said headed member and the surface of said bracket and bear against the under side of said headed member to lock said bearing members in shaft supporting position upon turning said knobs to predetermined positions.

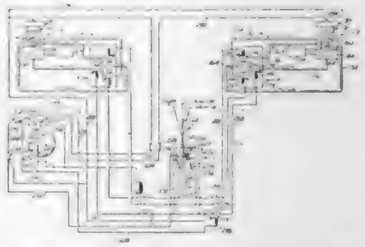
2,534,167
MACHINE FOR CUTTING HANDHOLDS IN WOODEN BOX ENDS
Henry J. Goff, Stockton, Calif.
Application March 10, 1947, Serial No. 733,536
2 Claims. (Cl. 144—136)

1. In a box end feeding device operating to progressively feed a box end past a given point and which includes a supporting frame and a table along which the box ends move; a mechanism for cutting a hand hole in each box end as it passes said point, such mechanism comprising a pair of laterally spaced journal brackets mounted on the frame adjacent the table, trunnions journaled in the brackets, a U-frame fixed to the trunnions, a motor secured in said U-frame, the drive shaft of the motor extending to and normally overhanging said point, a cutter on the outer end of the drive shaft, a lever pivoted on



one of the trunnions, the upper end of the lever being secured to the U-frame, and the lower end of the lever projecting below the table, a yielding element connected with the lower end of the element and effective to normally swing the U-frame to hold the cutter out of engagement with box ends on the table, and cam means operative to swing the lever to bring the cutter into engagement with each box end as it passes said point.

2,534,168
CONTROL FOR AIRCRAFT DRIVES
Ernest J. Greenwood, Stratford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 1, 1946, Serial No. 651,266
12 Claims. (Cl. 60—97)

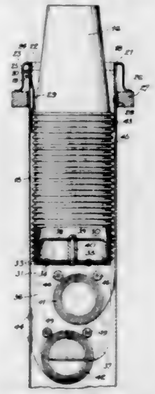


1. In an aircraft having a propeller, two engines, each having a throttle, transmission means for connecting each engine to the propeller, each transmission means having operating means, and control mechanism including a manually movable member for each engine-transmission unit having operative connections to the transmission operating means and to the throttle of its engine, said control members being mounted for joint movement in one direction to effect the simultaneous operation of said operating means of both transmissions and movable jointly or severally in another direction to effect the joint or several operation of said engine throttles.

2,534,169
PAPER CUP DISPENSER
Samuel N. Hope, Wauwatosa, Wis., assignor to Griffith-Hope Company, West Allis, Wis., a corporation of Wisconsin
Application November 8, 1946, Serial No. 708,653
8 Claims. (Cl. 312—43)

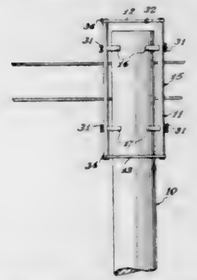
1. In a dispenser, the combination of a casing adapted to receive therein a stack of articles to

be dispensed and having a delivery end, an article follower longitudinally movable in said casing, and a pair of elongated first and second spring members each normally urged by its resilience to a spirally coiled condition and secured at its outer end to said casing, the coiled portion of each spring member tending to roll up toward the secured end of said spring member and engaging said follower to urge said follower



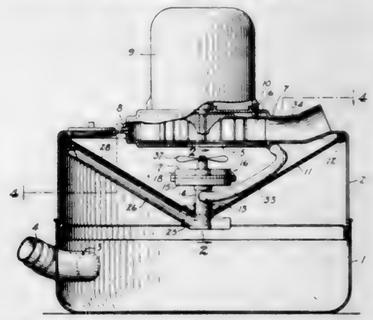
in dispensing direction, the first spring member acting on said follower during the entire travel of said follower and the second spring member having its coiled portion behind the coiled portion of said first spring member and being releasable from said follower when said follower reaches an intermediate point of its forward travel, the coiled portion of said second spring member having a forward terminal position at a point intermediate of the path of travel of said follower.

2,534,170
POLE GUARD
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application August 8, 1949, Serial No. 109,145
2 Claims. (Cl. 174—5)



1. In an insulated line pole assembly for safe installation between existing energized line conductors, the combination of the line pole with a pair of insulating guard units, each guard unit including a pair of wood pole engaging members of substantially rectangular shape, provided with a tapered groove having a rounded base for engaging poles of different sizes, the pole engaging members of each unit being parallel to each other and the grooves being aligned with each other, an insulating wooden pole carried by each of the outer corners of the pole engaging members of each unit, the insulating wooden poles being of sufficient length to extend from a point below the line conductors to a point beyond the top of the line pole, and a pair of insulating straps, each strap being located to extend about the end portions of the four poles of the two frame units to draw them together and to cause the pole engaging members to clamp the line pole with a frictional engagement and clamping force sufficient to insure the fixity of the pole guard on the line pole.

2,534,171
FILTER CLEANER FOR VACUUM DUST COLLECTORS
James B. Kirby, West Richfield, Ohio
Application June 14, 1947, Serial No. 754,678
10 Claims. (Cl. 183—57)

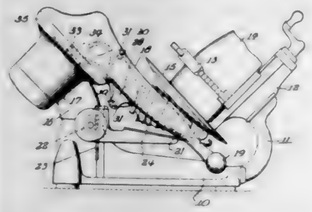


1. In a vacuum cleaner, a dust collecting chamber, a suction fan having its inlet communicating with said chamber, a filter interposed between said chamber and the inlet of said suction fan and having a surface facing said chamber against which the air impinges in flowing from the chamber to the fan and upon which dust accumulates during operation of the cleaner, an inlet conduit adapted to be connected with a cleaning nozzle opening tangentially into said dust collecting chamber so as to impart a whirling motion to air drawn into said chamber by said suction fan, a jet nozzle within said chamber mounted for rotation across the surface of said filter, said nozzle being arranged to direct an air jet against the surface of said filter facing said chamber, and means for rotating the said jet nozzle in the direction opposite that of the whirling air in said dust collecting chamber.

2,534,172
SLICING MACHINE WITH SWINGING KNIFE WITH STACKING DEVICE
Cornelis Klingens, La Porte, Ind., assignor to U. S. Slicing Machine Company, Inc., a corporation of Indiana
Application November 13, 1946, Serial No. 709,613
In the Netherlands January 27, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 27, 1964
9 Claims. (Cl. 146—94)

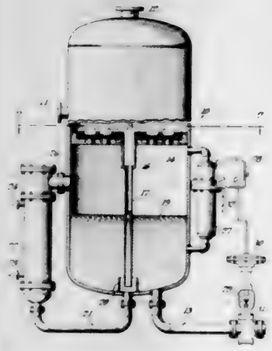
1. A slicing machine comprising an article holder, a swinging arm, a circular slicing knife rotatably mounted on said arm and movable bodily therewith, means for continuously rotating said knife, a guide member rotatably mounted on said arm and movable bodily therewith and having a surface positioned to progressively receive thereon slices of the articles severed by said knife to guide the slices from said knife as said

arm is moved in a cutting direction, and tractional drive means operable upon swinging of



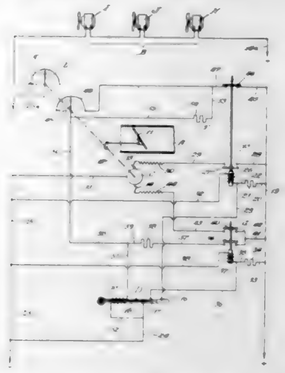
said arm in a cutting direction for causing rotation of said guide member.

2,534,173
FEED MEANS FOR THE REBOILER OF A FRACTIONATING COLUMN
Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application August 1, 1947, Serial No. 765,593
3 Claims. (Cl. 202—153)



1. In a distillation system, a distillation column, a reboiler, and means to pass a liquid from said column to said reboiler, said means comprising a liquid collecting tray in the lower part of said column, an attenuated reflux conduit having an outlet at the lower end thereof and leading from said tray to a chamber in the bottom of said column whereby a dynamic liquid level may be maintained in said conduit, means to maintain a static liquid level in said chamber, means to vary said static level independently of said dynamic level, a drawoff line from said chamber, the inlet of said line being subjacent to and directly in line with said outlet of said reflux conduit and leading to said reboiler whereby reflux liquid descending in said conduit is substantially completely passed directly into said inlet, means to heat the liquid in the reboiler thereby partially vaporizing said liquid, means to return said partially vaporized liquid to said column above the static liquid level in said chamber, means to withdraw the liquid product from the bottom of said column, and a submerged upstanding plate in said chamber forming a weir extending upwardly from and enclosing the inlet of said drawoff line, said upstanding plate being laterally spaced from both the outlet of said reflux conduit and the inlet of said drawoff conduit.

2,534,174
COMBINED VENTILATION AND HEAT CONTROL SYSTEM
Timothy J. Lehane and Everett H. Burgess, Chicago, Ill., assignors, by mesne assignments, to Vapor Heating Corporation, a corporation of Delaware
Application April 14, 1947, Serial No. 741,182
10 Claims. (Cl. 236—49)

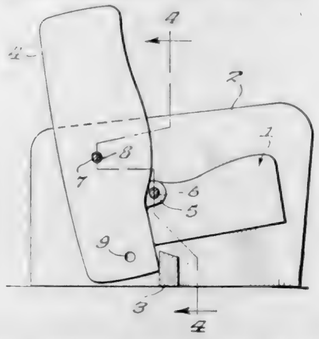


1. In combination with apparatus for heating an enclosed space and apparatus for ventilating the space; of a reversible electric motor operatively connected with said heating apparatus to control the delivery of heat into said space and operatively connected with the ventilating apparatus for controlling its effectiveness, means for controlling the energization of said motor comprising a thermostat responsive to the temperature of the space and set to function at the lower limit of a predetermined temperature range to effect energization of said motor to operate it in a direction to increase the supply of heat to the space and to decrease the effectiveness of said ventilating apparatus and set to function at the upper limit of said temperature range to effect energization of said motor to operate it in a direction to decrease the supply of heat and to increase the effectiveness of said ventilating apparatus, an electrical auxiliary heater for the thermostat, an energizing circuit therefor, a relay for closing said heater energizing circuit, and a control circuit for said relay connected through the thermostat at a point representing the upper limit of said temperature range, whereby said relay is effective below said upper limit of said temperature range to close said heater energizing circuit and to open the said circuit at said upper limit of said temperature range, a second energizing circuit for said auxiliary heater, a second relay for closing the said second energizing circuit, and a control circuit for said second relay connected through said thermostat at a point representing the lower limit of said temperature range, whereby the said second relay is effective below the lower limit of said temperature range to close said second energizing circuit through said auxiliary heater and to open said second energizing circuit at said lower limit of said temperature range.

2,534,175
SOFA-BED WITH FORWARD TURNING BACK
Anton Lorenz, Buffalo, N. Y.
Application September 18, 1946, Serial No. 697,714
4 Claims. (Cl. 5—43)

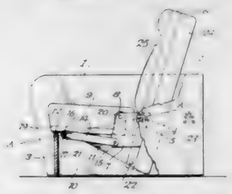
1. A sofa-bed comprising a seat, a support on which said seat is hinged on a horizontal axis

adjacent the upper rear corner edge of said seat, a back member disposed in a generally upright position with a face flat against the rear edge of said seat and holding the seat in a generally horizontal position, said member having a hinged connection to said support for rocking on a stationary, horizontal axis located intermediate the upper and lower edges of said member, to guide said member forwardly over said seat into a



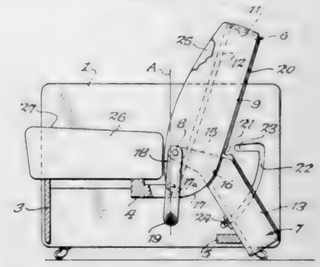
generally horizontal position with its rear edge disposed well rearwardly from the rear edge of said seat and releasing said seat to rock downwardly on its axis, a releasable interlock between said support and member for holding said member selectively in its said upright and its said horizontal positions, and a cushioned bed carried on the upper face of said horizontal member for movement therewith.

2,534,176
COMBINED SOFA SEAT AND BED
Anton Lorenz, Buffalo, N. Y.
Application April 6, 1948, Serial No. 19,295
17 Claims. (Cl. 5—43)



1. A sofa-bed comprising a pair of side elements, means connecting said side elements to form a main frame, a bed frame pivoted to the rear part of said main frame on an axis extending in a direction between said side elements, located intermediate the longitudinal edges of the bed frame, and rockable on said axis between an upstanding sofa position and a bed position in which it is generally horizontal with its rear face uppermost, a seat hinged at its rear portion to said bed frame forwardly of said axis and the front face of the bed frame when that frame is upstanding, track means inclined downwardly and rearwardly from adjacent the forward part of said seat and having an upwardly opening notch in its surface adjacent its upper end, a link hinged at its rear end to said bed frame below and forwardly of said axis and below said hinged connection between said seat and bed frame, and at its forward end carrying a roller riding on said track means, said roller entering said notch when said bed frame is upstanding, the forward part of said seat resting on and supported by the forward end of said link, and riding up and down said track means with said roller, as said bed frame is swung on said axis between its upstanding position and its horizontal bed position.

2,534,177
COMBINED SOFA SEAT AND BED
Anton Lorenz, Buffalo, N. Y., and Harry Nock, Elizabeth, N. J.
Application December 18, 1948, Serial No. 66,042
8 Claims. (Cl. 5—43)



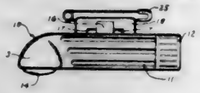
1. A sofa bed comprising a support having upstanding, parallel, end members arranged face to face but spaced apart and united by an intermediate portion, a mattress-supporting frame formed of two sections hinged together by axially alined pivots, and extending between said members, one of said sections being rockable on said pivots between an upstanding and slightly rearwardly inclined position and a horizontal position, the other of said sections being rockable on said pivots between a horizontal position and a downwardly and rearwardly inclined position, links pivotally connected to said support in generally vertical positions and articulately connected to said sections through said pivots, said links being disposed rearwardly of a vertical plane through their pivotal connections to said support when said one frame section is in its upstanding position and the pivots being movable forwardly and downwardly in the last part of the opening movement while the frame sections are opened up into a straight angle position, a flexible mattress confined to said frame on that face thereof which is uppermost when the frame is horizontal, said frame sections having overrunning portions that interengage and limit opening movement beyond a straight angle, and thereafter cause rocking movement together as said one section is moved from its upstanding to its horizontal position, and means limiting movement of said sections together beyond horizontal positions and bodily forwardly after the pivots have passed forwardly downwardly for a desired distance.

2,534,178
MANUFACTURE OF PERMANENT MAGNETS
Charles Marquaire, Ugine, France, assignor to Societe D'Electro-Chimie, D'Electro-Metallurgie et des Acieries Electriques D'Ugine, Paris, France, a corporation of France
No Drawing. Application February 7, 1947, Serial No. 727,296. In France February 15, 1946
4 Claims. (Cl. 148—16)

1. In the treatment of permanent magnets obtained by agglomerating metallic powder, the grains of which are uninsulated and have dimensions of the order of those of colloidal particles, the step consisting in heating said perma-

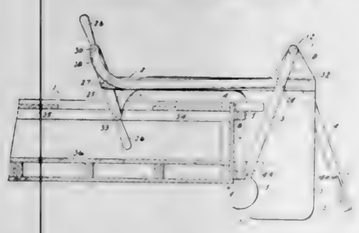
nent magnets in a non-oxidizing atmosphere within the range of about 300° C.–480° C. at such temperature as increases the remanent induction, decreases the coercive force and at least maintains the product of both said factors.

2,534,179
PURSE LIGHT
William H. Peterson, Chicago, and Basil E. Jones, Flossmoor, Ill.
Application September 25, 1947, Serial No. 776,030
4 Claims. (Cl. 240—6.45)



1. A switch arrangement for a purse light comprising an attaching bracket associated with the light and including means comprising the sole support of said light in a purse or the like, said light including a casing containing a battery and having a light bulb connected with the battery, an electrical contact on said bracket normally independent of any engagement with the casing, and a pair of spaced electrical contacts exposed on said casing in opposed relation to said contact on the bracket and completing the circuit from said battery to the light bulb upon operative engagement of all of the contacts.

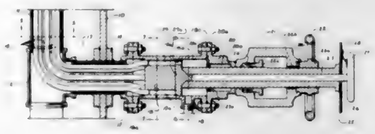
2,534,180
PROPULSION MEANS FOR ROWBOATS
Frank W. Raicy, Portland, Oreg.
Application March 14, 1949, Serial No. 81,248
2 Claims. (Cl. 115—32)



1. In an apparatus for the propulsion of boats, a rudder having a tiller, an operating arm fulcrumed on a pin in the end of the tiller, a hinge pin carried by the rudder, a blade-carrying arm mounted on the hinge pin on each side of the rudder, a connecting rod hingedly connected to one blade-carrying arm and to one end of the operating arm, a connecting rod hingedly connected to the other blade-carrying arm and to the opposite end of the operating arm, and a blade carried by each arm adapted to fold on the backward movement of its arm and open on the forward movement thereof.

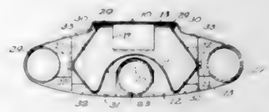
2,534,181
FLUID SAMPLING APPARATUS
Noble James Roberts, Cheyenne, Wyo.
Application December 22, 1947, Serial No. 793,151
6 Claims. (Cl. 73—422)

5. Apparatus for sampling fluid from a plurality of areas in a container, including, in combination, a plurality of vertical tubes having their upper ends terminating respectively in different horizontal areas within the container, a valve having an outlet and valve operating means outside the container, said tubes having their lower portions leading through the wall of the bottom portion of the container and terminating in the seat of said valve, there being an orifice in said valve seat communicating with each tube, said orifices being annularly arranged, and a valve



head adapted to selectively open any one of said orifices while closing the other orifices whereby to permit fluid to flow through said valve head only from a selected area within the container, said valve head being reciprocable and thereby adapted to either close all of said orifices simultaneously or to open all of said orifices simultaneously.

2,534,182
ELECTRIC FIXTURE FOR TUBULAR FLUORESCENT LAMPS
Martin W. Schwartz and Max J. Marks, Chicago, Ill.
Application December 2, 1946, Serial No. 713,420
5 Claims. (Cl. 240—51.11)

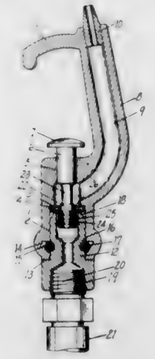


5. In an electric lighting fixture for straight tubular lamps, a supporting top plate, a pair of end plates secured to and spaced apart by the top plate, a reflector having side angular portions extending oppositely outward and joined by an inwardly rounded portion, the reflector disposed between the end plates and secured to the top plate having a central space between the rounded portion and the top plate for lamp ballasts and transformers, each end plate having a rounded recess corresponding to the inwardly rounded portion of the reflector, lamp socket mounting means at the outside of each mounting plate, lamp sockets secured therein, lamps mounted in corresponding sockets at the two ends, the two outer lamps being at the outside edges of the end plates and the central one between them in the inwardly rounded portion of the reflector and extending through the rounded recess of the end plates, and cover caps extending over the lamp ends and the end plates leaving spaces between the lamp sockets for lamp starting devices supported by the end plates.

2,534,183
BLOWGUN FOR CLEANING MACHINES OR THE LIKE
Ernest H. Shaff, Spring Lake, Mich.
Application February 6, 1948, Serial No. 6,578
6 Claims. (Cl. 299—150)

1. A blow gun comprising a body member having an internally cylindrical chamber stepped to provide an annular rearwardly facing shoulder and having an internal annular groove of angular radial cross section adjacent its rear end, said

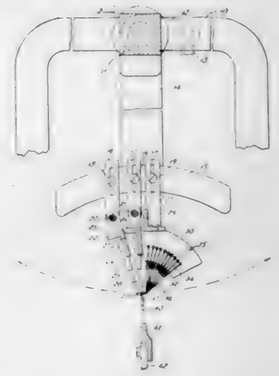
body having a valve stem bearing at its outer end alined with said chamber and a laterally offset nozzle extension opening to the chamber at the outer side of said shoulder, a disk-like valve seat member seated on said shoulder and having a central port, a coupling member rotatable within said body member in supporting engagement with said valve seat member, said coupling member having an annular groove registering with said internal groove in said body member, a ring of resilient material and circular radial cross section seated in said groove in said body member to project into said groove in said coupling member for retainingly and swivelly supporting the coupling member within the body member and constituting a packing for the joint between said body



member and coupling member, the groove in said coupling member being of semi-circular radial cross section and of such size as to permit the completely filling cross sectional expansion of said ring therein when the coupling member is forced into the body member, a valve comprising a stem slidably supported in said bearing, a head portion and a serrated stud at the inner end of said head portion, and a resilient valve sleeved upon said stud to retainingly engage the serrations thereof and to coact with said valve seat member, said head being slightly smaller than said port and the portion of said stem adjacent to said head being substantially smaller than said port whereby said valve is cooperative with said valve seat to selectively close said port and open said port to two sizes of valve opening.

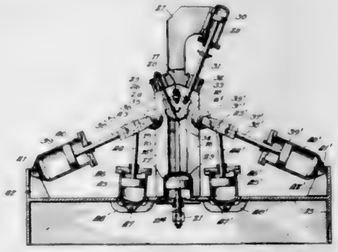
2,534,184
KNITTING MACHINE
Aaron S. Staff, New York, N. Y., assignor to Texagon Mills Inc., Ridgefield, N. J., a corporation of New Jersey
Application August 12, 1948, Serial No. 43,862
5 Claims. (Cl. 66—86)

1. In a knitting machine having a row of needles, the combination of a shaft extending lengthwise of the row and mounted for axial rocking movement, a rod mounted on the shaft for endwise movement lengthwise of the row of needles, a guide bar attached to the rod, a plurality of thread guides carried by the bar, a plurality of blocks mounted in spaced relation along the shaft, each block having a plurality of slots convergent toward the needles, a plurality of strips extending lengthwise of the row of needles, each strip being mounted for endwise movement in corresponding slots in the several blocks, and a plurality of thread guides mounted in spaced relation along each strip, the guide eyes of the



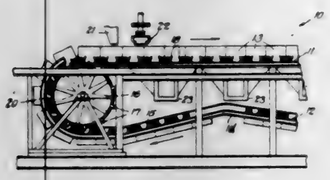
guides on the strips all lying substantially in alignment.

2,534,185
METHOD OF AND MACHINE FOR MAKING PIPE FITTINGS
James Hall Taylor, Oak Park, Ill., assignor to Taylor Forge & Pipe Works, Cicero, Ill., a corporation of Illinois
Application May 5, 1948, Serial No. 25,254
4 Claims. (Cl. 29—157)



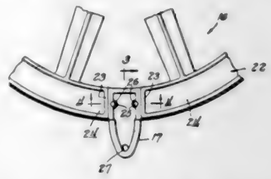
2. In means for making pipe fittings from pipe bends, means providing spaced apart flat surfaces, a vertically movable downwardly tapering grooved wedge shaped member bridging the space between said surfaces, a fixed mandrel extending downward between said surfaces with its lower end underlying said wedge shaped member, a second mandrel having rectilineal movement toward said first mandrel and positionable between said surfaces with its lower end in close proximity to the lower end of said first mandrel and underlying said wedge shaped member, said mandrels being disposed in a common plane and at opposite sides of said wedge shaped member substantially parallel with the sides thereof, forming members at opposite sides of and substantially aligned with the space between said surfaces, said forming members being mounted for vertical swinging movement about substantially horizontal axes, and means for moving said forming members into said space toward and away from said mandrels and for swinging said members about said axes.

2,534,186
SPROCKET WHEEL TOOTH AND PALLET CONTACT MEANS
William J. Urban, Glen Ellyn, Ill., assignor to American Ore Reclamation Company, Chicago, Ill., a corporation of New York
Application January 22, 1947, Serial No. 723,619
3 Claims. (Cl. 198—108)



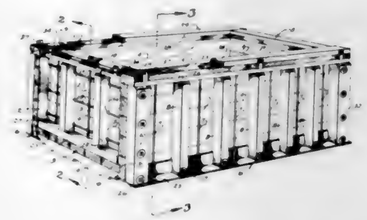
1. In a continuous type of sintering machine having upper and lower runs in the form of track sections interconnected at the feed end by a return bend in the form of an arcuate track section, and wherein the material to be sintered is carried on a train of pallets each of which is provided on opposite sides with a pair of wheels adapted to roll on said track sections, said pallets having horizontal hinge axes at opposite ends thereof each of which axes generates a segment of a cylindrical surface as each pallet is elevated up and around said return bend on said arcuate track section, and wherein a pair of co-axially aligned sprocket wheels with projecting teeth equi-spaced therearound are provided at opposite sides of said arcuate track sections in such position that each projecting tooth on each sprocket wheel in cooperation with an opposed projecting tooth on the other sprocket wheel successively engages tooth engaging surfaces provided on opposite sides of each of said pallets intermediate said pair of wheels thereon so as to lift said pallets from said lower run to said upper run at said return bend, the improvement which comprises, shaping the pallet engaging surface of each of said projecting teeth and said tooth engaging surfaces on opposite sides of said pallets in the form of an involute of a base circle established by subtending a circle having a radius of curvature of said cylindrical surface with a chord corresponding in length to the distance between said horizontal hinge axes on opposite ends of each pallet, and then using the radius of curvature shortened by one-half the rise of said chord as the radius of said base circle.

2,534,187
SPROCKET WHEEL AND TOOTH THEREFOR
William J. Urban, Glen Ellyn, Ill., assignor to American Ore Reclamation Company, Chicago, Ill., a corporation of New York
Application February 8, 1947, Serial No. 727,331
3 Claims. (Cl. 74—243)



1. In a sprocket wheel of the character described, a rim having tooth receiving pockets opening radially outward thereof, sprocket teeth mounted in said pockets, and shear members restraining said teeth against movement inwardly of said pockets, said teeth being adapted for movement radially inwardly of said pockets upon failure of said shear members under pressure applied to the outer ends of said teeth and said pockets being unobstructed and open at their inner ends for such inward movement of said teeth responsive to failure of said shear members.

2,534,188
ACID STORAGE TANK AND THE LIKE
Phillip J. Weber, Jr., Montebello, Calif.
Application October 18, 1948, Serial No. 55,160
7 Claims. (Cl. 217—4)



4. A tank structure of wooden type comprising a floor formed of a plurality of planks spaced edge to edge and side walls comprising a plurality of planks spaced edge to edge, the edges of said planks being splined together, a side croze formed in the lowermost plank of the side wall structure and receiving the ends of the floor planks, a metallic bottom rail extending the full length of each side wall formed by a T-shaped structural element, one leg of which extends horizontally beneath the wall and the web of which extends vertically against the flat face of the wall, a top rail extending the full length of each side wall formed by a channel-shaped structural element fitting downwardly over the upper edge of the wall, posts disposed at spaced intervals throughout the length of the side walls, the upper ends of said posts interlocking with the channeled top rail and the lower ends of said posts resting against the outermost faces of the T-shaped lower rail, tie bolts passing through the lower ends of the posts and the lower rail to secure the posts in position, and vertical tie bolts extending downwardly through the channel-shaped upper rails to hold the posts in position and the rails of the side walls in their joined relationship.

2,534,189
VACUUM CLEANER NOZZLE
Edward A. Wright, Elk Creek, Calif.
Application June 15, 1944, Serial No. 540,479
2 Claims. (Cl. 15—415)

1. In a vacuum cleaner suction head adapted for treating pile fabrics to a substantial depth with a vacuum induced upward air sweeping action, a body member with a working face having two narrow closely spaced, adjacent parallel slits to engage the surface of the pile fabric material, and a pair of outwardly diverging substantially parallel-walled conduits in said body member, defined in part by a transverse partition having a narrow imperforate lower edge extending into the plane of the working face, said conduits communicating at their upper wide apart ends with the source of vacuum and with their lower ends connected to said closely adjacent slits where they open onto said working face, whereby only a vacuum induced flow of air is present which sweeps through the fabric pile tending to cause the pile to divide as the upwardly flowing air stream divides and bends outwardly into said conduits thereby tending to lay apart the pile between said slits and exposing any entrapped dirt and grit to the full upward sweep of the vacuum-induced upwardly-flowing air current to lift out any dirt and grit therein.

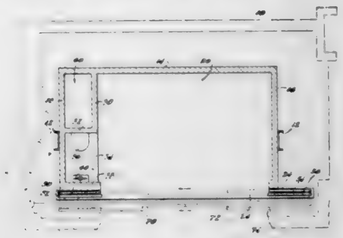
2,534,190
HEAT-RESISTANT STEEL ALLOY
Bohumil A. Zikmund, Munster, Ind., assignor to Calumet Steel Castings Corporation, Hammond, Ind., a corporation of Indiana
No Drawing. Application September 10, 1949, Serial No. 115,117
3 Claims. (Cl. 75—128)

1. A heat resistant steel alloy adapted to withstand intense and continuous heating and extreme variations in temperature, said alloy comprising about 0.40% to 0.50% carbon, 1.00% to 1.25% silicon, 1.00% to 1.25% manganese, 0.75% to 1.00% chrome, 3.00% to 3.50% nickel, and the balance substantially all iron.

2,534,191
PREPARATION OF PENTAERYTHRITOL
John Cryer, New Lenox, and Jay C. Owens and Richard Jui Fu Lee, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 19, 1947, Serial No. 742,730
23 Claims. (Cl. 260—635)

1. In the process of forming pentaerythritol in an aqueous alkaline medium by reacting formaldehyde, acetaldehyde, and an alkali in the ratio of about 4 mols to 1 mol to 1 equivalent, the step of including with said components in the reaction mixture not exceeding a catalytic amount of an added non-metallic catalyst capable of being formed by condensation of components of said reaction mixture during the course of said reaction.

2,534,192
ELEVATOR
George L. Ely, Hopkinton, Mass., assignor to Jordan Marsh Company, Boston, Mass., a corporation of Massachusetts
Application July 28, 1948, Serial No. 41,010
8 Claims. (Cl. 187—1)

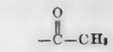


8. An elevator car comprising walls and a floor forming an enclosure, one side of said enclosure being open, means for closing and opening said open side of the enclosure, said means being so constructed and arranged as to present no obstruction to access to the enclosure when in the open position, and partitions and an elevated floor defining a compartment at one end of said enclosure adjacent said opening and communicating with said enclosure.

2,534,193
COPOLYMERS OF STYRENE AND PARA-VINYLBENZYL COMPOUNDS
William S. Emerson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 22, 1949, Serial No. 89,143
3 Claims. (Cl. 260—87.3)

1. A copolymer of 60 to 99 percent by weight of styrene and one to 40 percent of a compound of the structural formula:

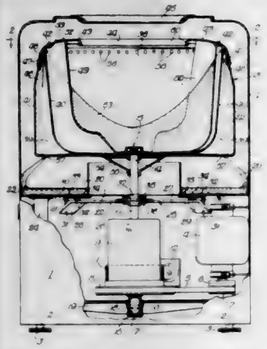
wherein R is selected from the group consisting of H—, and



2,534,194
WASHING MACHINE
Clayton F. Emmert and William H. Stouder, Newton, Iowa, assignors to Automatic Washer Company, Newton, Iowa, a corporation of Delaware
Application November 9, 1946, Serial No. 709,050
5 Claims. (Cl. 210—63)

4. In a washing machine, a casing, a rotary tub mounted in said casing, means associated with said tub for counterbalancing unbalanced loads in said tub, a base member secured in said casing beneath said tub and defining a sump chamber, said tub having outlets to said sump chamber, a flexible bearing in said casing beneath said base member, a shaft having its lower end seated in said bearing, said shaft extending through said base member and being connected to said tub, means for rotating said shaft for oscillating said tub, and snubbing means between said shaft and base comprising a spider having a hub surround-

ing said shaft, a flexible bushing in said hub, arms on said spider, yielding means connecting said

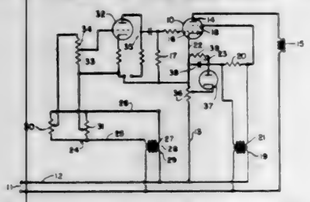


arms with said base member and friction pads between said arms and base member.

2,534,195
TRACK FOR HANGING DOORS, CONVEYERS AND THE LIKE
Robert Gaye Ferris, Harvard, Ill., assignor to Starline Inc., Harvard, Ill., a corporation of Illinois
Application August 6, 1948, Serial No. 42,927
5 Claims. (Cl. 16—96)

1. A track comprising a pair of thick, rigid metal angle members with narrow flanges positioned with one flange of each in laterally spaced upright parallel relation and having deformed portions which extend the full breadth of said parallel flanges projecting at regularly spaced intervals from said parallel flanges and abutting each other to space the angle members apart and form slots therebetween for admitting hangers, and means for securing the deformed portions of said angle members together to form an integral track unit.

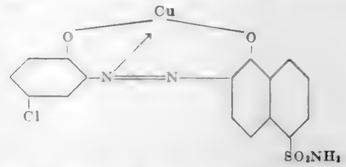
2,534,196
ELECTRICAL CONTROL CIRCUITS
Paul Glass and Frank E. Prem, Chicago, Ill., assignors to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application May 26, 1948, Serial No. 29,304
4 Claims. (Cl. 315—270)



1. A pulse control circuit comprising a gaseous discharge tetrode having an anode circuit for connection in series with a load and an alternating current source and including a cathode resistor, means for applying to the shield grid of the tetrode an alternating suppressing bias voltage in substantial phase opposition to the anode voltage, means for applying to the control grid a signal voltage for overcoming such bias voltage to permit the tube to conduct during positive half cycles of anodes voltage, and a means including a condenser connected across the cathode resistor and a circuit for applying to the shield grid in addition to the alternating suppressing voltage the negative direct current voltage developed across the condenser during the connection as a suppressing bias voltage proportional in amplitude to the number of successive conducting half cycles of the tetrode.

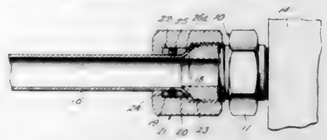
2,534,197
COPPERED AZO DYE
Harry W. Grimmel, Riegelsville, Pa., and Jack F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 20, 1947, Serial No. 775,382
1 Claim. (Cl. 260—151)

The coppered azo dye of the following constitution:



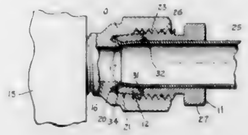
capable of yielding level dyeings of an attractive bluish rubine shade of excellent fastness properties to light and washing.

2,534,198
SELF-FLARING PIPE COUPLING
Stephen Guarnaschelli, Naugatuck, Conn., assignor to The Brockway Company, Naugatuck, Conn., a corporation of Connecticut
Application March 11, 1947, Serial No. 733,843
3 Claims. (Cl. 285—86)



1. A coupling for threadless ductile metal tubing comprising a body member having a flare-forming and flare-seating conical projection having the diameter of its outwardly facing small end not greater than the internal diameter of the tubing, a draft member having screw thread engagement with the body member, and a sleeve connected to the draft member to travel therewith toward the body, said sleeve having a bore slidably receiving the end of the tubing and having a conical seat facing and conforming to the shape of said conical projection on the body, said sleeve having at least one setscrew positioned to engage the tubing for mechanically coupling the sleeve to the tubing therein for advancement therewith with the end of the tubing projecting a determinate distance beyond the seat on the sleeve, whereby when the draft member is advanced the projecting end of the tubing is extruded over the conical projection on the body and clamped between the latter and the conical seat on the end of the sleeve.

2,534,199
THREADLESS TUBE COUPLING
Stephen Guarnaschelli, Naugatuck, Conn., assignor to The Brockway Company, Naugatuck, Conn., a corporation of Connecticut
Application May 16, 1947, Serial No. 748,399
1 Claim. (Cl. 285—86)

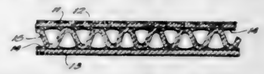


A pipe connector comprising a body member having a projection having a flare-forming surface, an axially extending wall surrounding said projection and with the latter providing a flare-receiving recess of determinate size to contain the flared pipe and the hereinafter mentioned sleeve, said recess extending axially beyond said flare-forming surface of the projection a determinate distance dependent upon the amount of pipe to be flared and being tapered axially toward the flare-forming surface, a draft member threaded to said body member, an axially split sleeve joined to the draft member for advancement therewith, said sleeve having a bore of greater diameter than the smallest diameter of said projection to freely pass a pipe therethrough to abut said flare-forming surface of the projection, said sleeve having an end portion, the outer diameter of which exceeds the diameter of the recess so that the end portion of the sleeve engages the tapering wall at the outer end of the recess, whereby threading of the draft member upon said body causes the sleeve to advance into said recess to be closed on and compressed into clamping engagement with the pipe at a place thereon spaced a distance from the pipe end dependent upon said determinate distance to extrude said pipe along the flare-forming surface of the projection and substantially fill said recess to form a leak-tight joint with said pipe.

2,534,200
EXPANSION BUCKLE
George Joseph Hickey, Pawtucket, R. I.
Application October 23, 1947, Serial No. 781,604
3 Claims. (Cl. 24—68)

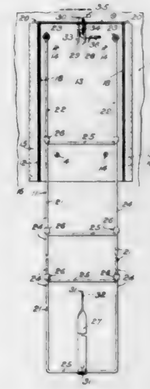
1. In an expansion buckle, a housing, two slide members slidably mounted in the housing to respectively extend from the ends thereof, spring means in the housing for urging the slide members outwardly from the housing, and a catch member mounted in the housing and releasably engaging the slide members, said catch member being manually movable to release its engagement with the slide members.

2,534,201
CARTON HAVING METAL CORROSION INHIBITING CHARACTERISTICS
Clemens A. Hutter, Chicago, Ill., assignor to Nox-Rust Chemical Co., Chicago, Ill., a corporation of Illinois
Application November 1, 1949, Serial No. 124,852
9 Claims. (Cl. 229—3.5)



5. A corrugation formed of integrated plies of paper stock wherein the outer plies have from ⅓ to 10 pounds of a metal corrosion inhibiting composition per 100 square feet of surface area, said composition comprising the combination of an organic amide and an inorganic metal nitrite.

2,534,202
FIRE ESCAPE LADDER AND STORAGE MEANS THEREFOR
Andrew A. McCall, Curwensville, Pa.
Application April 29, 1949, Serial No. 90,447
8 Claims. (Cl. 228—38)



1. A fire escape comprising an attaching member to be anchored to the outside of the wall of a building, a casing supported by said member and upwardly removable therefrom, said casing having an open bottom and a closed top, a vertically collapsible ladder in said casing having slidably engaged sections movable downwardly through said open bottom, the uppermost ladder section being secured to said member, a link for holding the ladder collapsed in said casing, said link having one end attached to the lower most section of the ladder and its other end disposed adjacent the top of the casing, a keeper on the under side of the casing top, and a manually actuated latch carried by said casing and engageable with said keeper and with the upper end of said link to hold the ladder collapsed in said casing and to prevent upward removal of said casing.

2,534,203
PICKER
J. Edgar Moe, Danielson, Conn., assignor to The Bullard Clark Company, Danielson, Conn., a corporation of Connecticut
Application June 17, 1947, Serial No. 755,189
4 Claims. (Cl. 139—159)

1. As a new article of manufacture, a picker of the kind described having a shuttle-contacting

first and second grid biasing impedances serially

2,534,209

portion and a loop portion formed of synthetic plastic material at the shuttle-contacting portion and extending ribs opposite said face, in combina-

tion with resilient material forming the loop and enclosing said synthetic plastic and interlocking with said ribs.

2,534,204

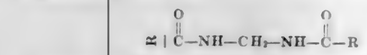
METHOD OF PREPARING AMIDES

David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 30, 1947, Serial No. 794,814

4 Claims. (Cl. 260—404.5)

1. A method of preparing a compound of the structural formula:



wherein R is an alkyl radical having from 7 to 23 carbon atoms, which comprises treating an alkyl cyanide having from 8 to 24 carbon atoms with formaldehyde and an acidic substance of the group consisting of mineral acids having ionization constants at least as great as that of phosphoric acid and hydrolyzable salts of said acids, and contacting the resulting product with water.

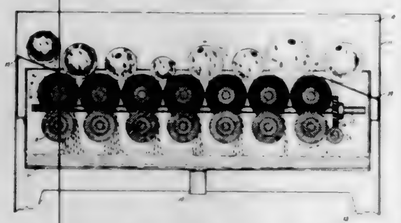
2,534,205

APPARATUS FOR REMOVING WATER BY CAPILLARY ACTION FROM MOIST PERISHABLES

Joseph F. P. Newhall, St. Petersburg, Fla., and Walter A. Bridgeman, Racine, Wis., assignors to S. C. Johnson & Son, Inc., Racine, Wis.

Application July 3, 1947, Serial No. 758,950

2 Claims. (Cl. 34—95)



1. In a water eliminator in which perishables such as fruit and vegetables travel in rolling contact with horizontal rollers having fixed axis placed transversely to the direction of travel of the perishables and having absorbent surfaces from which water is wrung out by wringer rollers placed thereagainst, the improved roller comprising a hard core positioned within the hollow centers of a series of doughnut-shaped pieces of cellular rubber having intercommunicating cells, said pieces having continuous circumferential surfaces forming the contacting periphery of said roller, the surfaces of said pieces being substantially equidistant at all points from said core.

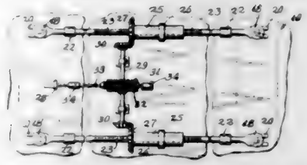
2,534,206

CONVERTIBLE AMPHIBIAN AIRPLANE

Theodore C. Patecell, Jackson Heights, N. Y.

Application July 25, 1945, Serial No. 606,963

2 Claims. (Cl. 244—101)



1. In an airplane having a fuselage, wings and a landing gear for use on land, a pontoon-type landing gear for use on water, and means for releasably attaching said pontoon-type landing gear in position, comprising studs on said pontoon type landing gear extended into a hollow portion of the airplane, said studs being formed with annular grooves adjacent the ends thereof within said hollow portion, slidably mounted fork-like members within said hollow portion engaging said grooves of said studs retaining said studs in position extended into said hollow portion, and means for moving said fork-like members to engage and disengage them from said grooves of said studs, said moving means comprises tubular bushings having threads of opposite hand formed in the ends thereof, said fork-like members being arranged in opposed pairs and formed at their adjacent ends with threads of opposite hand engaging said threads of opposite hand formed in the ends of said tubular bushings, and means for rotating said bushings in one direction or the other to extend and retract said fork-like members.

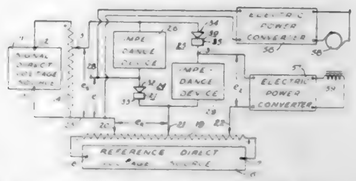
2,534,207

VOLTAGE SPLITTING CIRCUIT

Jay W. Picking, Cleveland, and Walter J. Brown, Cleveland Heights, Ohio

Application October 8, 1948, Serial No. 53,558

23 Claims. (Cl. 171—97)



18. A voltage dividing circuit including a signal direct voltage source, a reference direct voltage source, a first rectifier having a first cathode and a first anode, a second rectifier having a second cathode and a second anode, a cathode resistor interconnecting said cathodes, an anode resistor interconnecting said anodes, means to apply a variable signal potential to said first anode from said signal direct voltage source, means to apply a reference potential to said second cathode from an intermediate terminal of said reference direct voltage source, connection means for interconnecting the negative terminals of said sources, a first terminal at said negative source terminals, a second terminal at the juncture of said second anode and said anode resistor, a third terminal at the juncture of said first cathode and said cathode resistor, and a fourth terminal at the positive end of said reference direct voltage source, said first rectifier being a thermionic tube having a control grid,

first and second grid biasing impedances serially connected between said first anode and a connection to said reference voltage source having a potential more positive than said intermediate terminal, and means for connecting said grid to the juncture of said first and second grid biasing impedances, said negative and intermediate reference voltage terminals establishing a first reference voltage and said intermediate and positive reference voltage terminals establishing a second reference voltage, whereby the voltage across the first and second terminals varies directly as a substantially linear function of the signal voltage variations for signal voltage values less than the value of the first reference voltage and remains substantially constant at the value of the first reference voltage for variations of the signal voltage greater than the value of the first reference voltage, and whereby the voltage across the third and fourth terminals remains substantially at the value of the second reference voltage for signal voltage variations less than the value of said first reference voltage and varies inversely as a nonlinear function approaching a hyperbolic function of the signal voltage variations over at least a part of the range of signal voltage variations greater than the value of the first reference voltage.

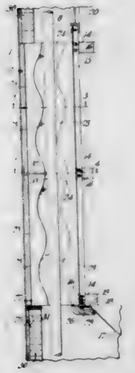
2,534,208

MULTIPLE BLOCK BAFFLE CONSTRUCTION FOR MULTIPLE TUBE FLUID HEATERS

Carl S. Reed, New York, and Otto C. Schauble, Mount Kisco, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application January 16, 1948, Serial No. 2,665

11 Claims. (Cl. 110—98)



1. Baffle structure for an updraft fluid heater of a type including an upright furnace chamber, an annular series of spaced substantially vertical fluid-heating tubes within said chamber and surrounded by a wall of the chamber, means to conduct combustion within a region surrounded by a lower portion of said tubes, and a deflector within a region surrounded by an upper portion of the tubes to direct ascending combustion gases between the deflector and said chamber wall, said baffle structure comprising an annular assembly of tiles having opposed baffle surfaces arranged at opposite sides of said upper portion of the tubes and formed in vertical section to cause therebetween sinuous flow of the combustion gases upwardly along and crosswise of the tubes between the deflector and the chamber wall, for convection heating of the tubes.

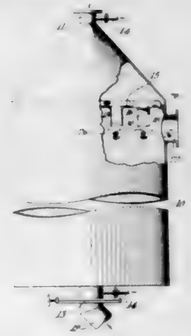
2,534,209

HYDROCARBON FEED DISTRIBUTOR FOR CATALYTIC APPARATUS

Carl S. Reed, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application January 30, 1948, Serial No. 5,470

3 Claims. (Cl. 23—288)



1. In combination with an upright reactor chamber for effecting a chemical reaction in the presence of a continuously moving bed of heated granular particles of contact material in gravity packed columnar form, which reactor chamber has an inlet and an outlet for the contact material, and an outlet intermediate thereof for the products of the reaction: improved feed and distributing means for liquid phase material to be reacted comprising a straight tubular conduit extending substantially horizontal into the reactor chamber and spaced below the top of the reactor chamber whereby it is normally below the top surface of the bed, said conduit having a plurality of feed distributing apertures spaced along the lower side thereof, a tubular casing having a closed inner end portion and being of much larger diameter than the conduit, said casing receiving said conduit and having an elongated bottom slot into which the apertured lower side of said conduit projects as a substantial continuation of the outer bottom surface of the tubular casing, and a heat insulating material filling the space between the conduit and the casing.

2,534,210

CENTRIFUGAL SEPARATION

August Henry Schutte, Hastings on Hudson, N. Y., and Ward F. O'Connor, Bayonne, N. J.; said O'Connor assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

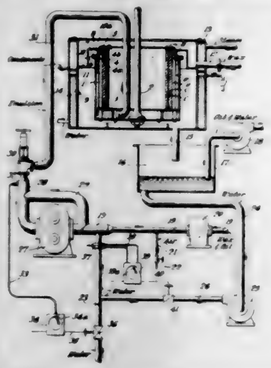
Application February 28, 1946, Serial No. 650,792

6 Claims. (Cl. 233—11)

1. Separating apparatus, comprising a centrifuge of the solid-bowl type operable to separate a fluid mixture of materials of different specific gravity; and a charging system for said centrifuge comprising a mixing device, means including a conduit for delivery of said mixture to the mixing device, a conduit for a temperature-conditioning liquid in delivery connection with the mixing device, means including a conduit for passing to the mixing device separated liquid discharged from the centrifuge, a main charge conduit arranged to conduct from the mixing device to the centrifuge the combined mixed charge including the said mixture, the temperature-conditioning liquid and said separated liquid,

means responsive to variation in the

means responsive to variation in the temperature of said combined charge within the main charge conduit to control delivery of the temperature-conditioning liquid through its said conduit, and means responsive to variation in



delivery of said temperature-conditioning liquid through its conduit to control delivery of the separated liquid through its said conduit, to cause substantially uniform combined delivery to the centrifuge of the temperature-conditioning liquid and said separated liquid.

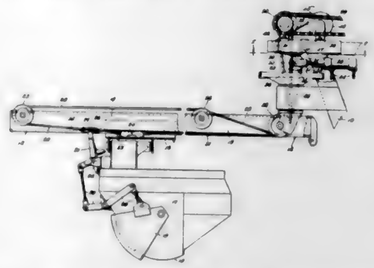
2,534,211

MATERIAL DISTRIBUTING RECEPTACLE

George K. Viall, Milwaukee, and Rudolph F. Lindow, Wauwatosa, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 14, 1947, Serial No. 734,653
3 Claims. (Cl. 214—59)

3. In concrete distributing apparatus for a mixing machine having a frame, the combination of a boom carried by said mixer frame; a receptacle mounted for reciprocation on the boom and having a discharge controlling door; a pair of winding drums mounted on said mixer frame; a traversing cable connected to the receptacle and having outward-traverse and inward-traverse portions extending along the boom and to one of said winding drums; a separate door-control cable substantially paralleling said traversing cable along the boom and extending to the other of winding drums; door operating mechanism connected to said control cable, operable through differential movement of the two cables; means for operating said winding



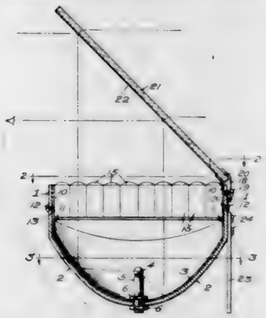
drums in unison whereby to move complementary portions of the two cables in like directions at equal speeds, thus normally preserving a determined relationship between them which prevents actuation of said door operating mechanism and maintains the door in a given position; and a reversible motor on the mixer frame having means engaging the door-control cable, said motor being operable at the volition of the operator to temporarily increase or decrease the speed of portions of said door-control cable adjacent the door operating mechanism, with resultant actuation of the latter and shifting of the door to a different position.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

534,511. **AIMING SIGHT COMPRISING A PLURALITY OF COLLIMATING LENSES IN SIDE-BY-SIDE RELATION.** Leo H. Brown, Glenville, Conn. Filed May 6, 1944. Published Dec. 12, 1950. Class 88—1. 2 sheets of drawings. 10 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



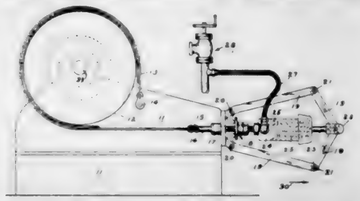
The disclosure relates to an optical sighting device particularly intended for the aiming of guns, in which the image of a reticle may be seen in all positions of the eye over a relatively large area or field of view so that substantial lateral movement of the eye is possible without losing sight of the reticle and target and without material error in aim. In one embodiment a large number of identical plano-convex lenses **15**, square in cross section transversely of the optical axes, are fixed in parallel side-by-side relation to define a field of view of the desired extent. Each lens has an axial dimension equal to the focal length of the lens and carries a reticle on or at its lower plane face. All reticles are identical. A partial reflector **21** is fixed at 45° over the assembled lenses and means such as a lamp **4** and parabolic reflector **3** are provided to afford images of the reticles upon reflector **21** where they appear superposed at infinity upon a target viewed through the partial reflector. Only one reticle is seen by the eye for each position thereof laterally of the field of view so that accurate aiming may be effected while at the same time the operator has considerable freedom of movement of his head.

683,963. **AUTOMATIC WINCH BRAKE.** Sidney M. Carleen, Audubon, N. J. Filed July 16, 1946. Published Dec. 12, 1950. Class 188—170. 1 sheet of drawings. 5 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

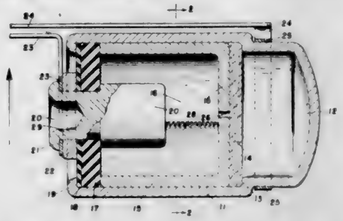
This device pertains to winches or the like power engines comprising load-moving drums, and it comprises a brake operable to hold a load-moving drum whenever its power source fails.

The device comprises the brake drum **12** which is secured to the load moving drum on the common shaft **33**. The brake **13** of drum **12** is applied by the spring **25** inside the cylinder **24**, the spring **25** operating the brake through the lever mechanism **19** actuating the abutment member **18**, which is secured to the brake-rod **16** in predetermined position lengthwise thereof. The valve **28**, which in the specifically disclosed embodiment controls the flow of fluid to the engine that drives the load-moving drum of shaft **33**, is also connected to the cylinder **24** through fluid line



27. Piston **26** is thereby actuated opposed to the spring **25** to release the brake **13** whenever the power to the engine is turned on. Whenever the power-source of the engine is turned off, or when it fails for any reason, pressure fluid to cylinder **24** also fails, and the spring **25** is thereby enabled to apply the brake **13**. The load that is supported by the load-moving drum is thus prevented from falling.

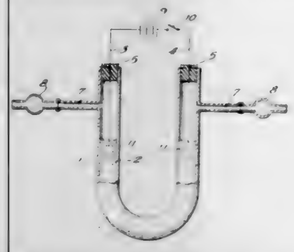
762,862. **MERCURY SWITCH.** Jerome V. Kelly, Detroit, Mich., assignor to United States of America as represented by the Secretary of the Navy. Filed July 23, 1947. Published Dec. 12, 1950. Class 200—80. 1 sheet of drawings. 5 pages of specification.



The cylindrical casing **11** of the switch illustrated in Figure 1 is inserted endwise into a body which is subject to being rotated, such as an ordnance projectile. The mercury **28** initially closes an electrical circuit of a predetermined sort within the projectile, with terminals at the copper cup **15** and the conducting stud **20**. When the body is rotated, centrifugal force extrudes the mercury through the port **26** and through the filter wafer **14** into the sump **12**. The consequent displacement of the mercury from the stud **20** opens the initially short-circuited electrical system. The purpose of the wafer **14** is to delay the extrusion of the mercury. Consequently the opening of the circuit is timed. The wafer is made of fiber glass. The smooth, hard surfaces of the comparatively long, interwoven fibers enable the mercury to filter through without clogging the interstices. The porosity of the wafer, hence the rate of filtering through of the mer-

cury, and the delay period in opening the circuit can be varied by making the fiber stock more or less dense. All wafers cut from a given, prefabricated stock which has a uniform density or porosity throughout will possess identical characteristics of porosity and texture.

3,507. ELECTRODEPOSITION OF URANIUM. Ermon D. Eastman, deceased, late of Berkeley, Calif., by Ann G. Eastman, executrix, Berkeley, Calif. Filed Jan. 21, 1948. Published Dec. 12, 1950. Class 204—14. 1 sheet of drawings. 7 pages of specification.



Metallic uranium is electrodeposited on a platinum cathode from an anhydrous solution of uranium tetrabromide or uranium tribromide at from 1 to 30 volts, from 0.01 to 0.1 amp./cm.^{2} and preferably at a temperature of from 30 to 35° C. Solvents suitable for the process are organic materials, which form complexes with uranium, such as ethanol, formamide, acetamide and glacial acetic acid.

The accompanying drawing illustrates a specific type of apparatus which consists of a glass U tube 1 containing the solution 2 to be electrolyzed. An anode 3 and cathode 4 pass through stoppers 5 that seal the ends of the U tube 1. The ends of the anode and cathode are in the form of platinum discs 11. The side arms 7 of the U tube, that are used for filling and emptying the container, have attached to them drying tubes 8 filled with a suitable drying agent such as calcium chloride or phosphorus pentoxide. The drying tubes permit gases to escape from the electrodes and prevent the passage of moisture from the atmosphere into the plating bath thereby avoiding undesirable oxidation of the highly reactive uranium compounds employed. The electrodes are connected to a source of direct current such as a battery 9 through a switch 10.

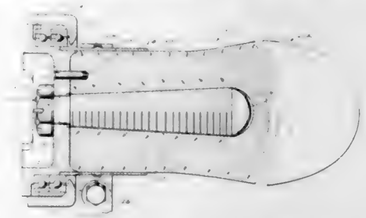
EXAMPLE

Uranium tetrabromide was dissolved in anhydrous ethanol in a concentration of 23 grams per 100 cc. of ethanol. Electrolysis was carried out at about 15 volts and at a current density .03 amp./cm.^{2} The conductivity of the solution was approximately 0.02 ohm per cc. A hard black deposit of metallic uranium was obtained at the cathode. The metal deposit was soluble in dilute hydrochloric acid with an evolution of hydrogen to give a green solution containing U^{+4} ions.

36,050. RETENTION FOR METALLIC NON-FERROUS AIR PROPELLER BLADES AND METHOD OF MAKING SAME. Albert H. Lambert, Dayton, Ohio. Filed June 30, 1948. Published Dec. 12, 1950. Class 170—173. 2 sheets of drawings. 8 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The disclosure relates to a means for retaining propeller blades made of material having a high notch sensitivity such as magnesium and its alloys in a conventional propeller hub. In the initial manufacture a blade forging has the shank portion thereof suitably drilled to take the enlarged end of a reversely tapered alloy steel pin which is suitably threaded at its inner end for retaining the blade shank in a propeller hub. The blade shank is then forged, swaged, or otherwise compressed, about the taper pin so that the centrifugal force acting on the blade in use is transferred from the blade shank directly to the pin by bearing load. After the taper pin is imbedded in the blade the shank and other portions of the blade are finished machined such that the axis of the taper pin lies on the radial axis of the blade and shank.



As best illustrated in Fig. 2 of the drawing, the reference numeral 10 indicates a conventional type of propeller hub structure such as generally employed in controllable or automatically variable pitch propellers. Mounted within the hub is a sleeve member generally indicated by the reference numeral 11 which has an outwardly extending radial flanged portion 12 adapted to engage conventional ball type thrust bearings indicated at 27 and 27*a*. The sleeve member 11 is further provided with a transverse web portion 13 which is suitably centrally apertured to receive the threaded portion 15 of the reversely tapered pin 16 which is embedded in the shank 20 of the propeller blade 21. The taper pin 16 is securely anchored to the transverse web plate 13 by means of the nut 17. The shank portion 20 of the propeller blade 21 is pressed into a steel ferrule 24 which in turn is pressed onto a shoulder portion 25 of the sleeve member 11, thus enabling bending stresses to be transmitted from the ferrule directly into the hub structure. One or more shear pins 22 are driven into apertures 23 in the butt portion of the blade shank so as to transmit pitch adjusting torque from the sleeve member 11 to the blade. Counter weight 26 is adapted to be clamped to the ferrule 24 in a well-known manner.

Rotation of the sleeve member 11 by means of pitch changing mechanism, not shown, causes rotation of the sleeve in the thrust bearings and thus changes the pitch of the blades during the flight. Centrifugal force loads exerted on the propeller blade are transmitted to the taper pin 16 and from thence to the transverse web member 13 by means of nut 17. In order to increase the bearing area the taper pin 16 may be provided with rounded threads as indicated at 19.

The ferrule 24 resists any splitting action exerted on the blade shank due to wedge action by the taper pin 16 and by drawing up the nut 17 to a predetermined torque, and an initial tensile preload can be applied to the taper pin, placing the material in the blade shank adjacent the pin under a considerable compressive stress, such that the compressive stress will at least equal or exceed any direct stress due to combined tension and bending loads exerted during flight. This feature is important with materials having low fatigue strength limits and high notch sensitivity such as magnesium.

DESIGNS

DECEMBER 12, 1950

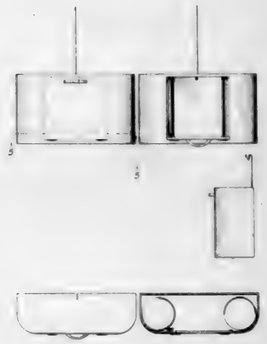
161,150
SHOE
Jack Abowitz, New York, N. Y.
Application July 21, 1950, Serial No. 11,285
Term of patent 3½ years
(Cl. D7—7)

The ornamental design for a shoe, substantially as shown.

161,151
GLASSES CASE HOLDER
Elaine J. Ackerman and Michael J. Ackerman, Atlanta, Ga.
Application March 12, 1949, Serial No. 1,372
Term of patent 7 years
(Cl. D57—1)

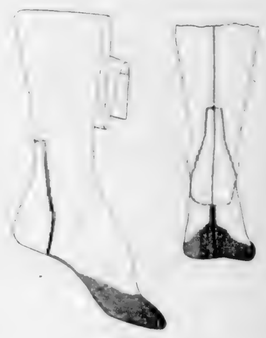
The ornamental design for a glasses case holder, substantially as shown.

161,152
TOILET TANK CABINET
Kenneth C. Baker and Grace M. Baker, San Jose, Calif.
Application September 26, 1949, Serial No. 5,172
Term of patent 14 years
(Cl. D4—5)



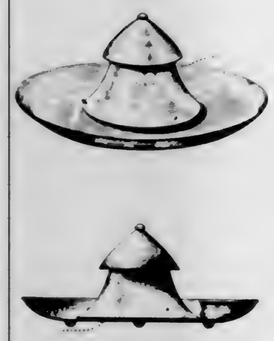
The ornamental design for a toilet tank cabinet, substantially as shown.

161,153
STOCKING
Hans J. Bambach, Philadelphia, Pa.
Application April 30, 1949, Serial No. 2,354
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown and described.

161,154
PORTABLE ELECTRIC FOUNTAIN
Robert L. R. Bartholomew, Chester Springs, Pa.
Application May 2, 1950, Serial No. 9,635
Term of patent 14 years
(Cl. D91—4)

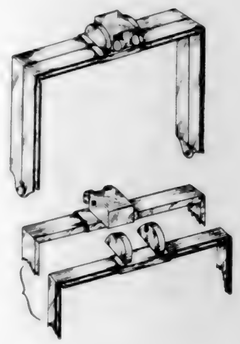


The ornamental design for a portable electric fountain, substantially as shown and described.

161,155
VEHICLE TIRE
Aaron H. Benorden, Jesup, Iowa
Application February 11, 1949, Serial No. 799
Term of patent 3½ years
(Cl. D90—20)

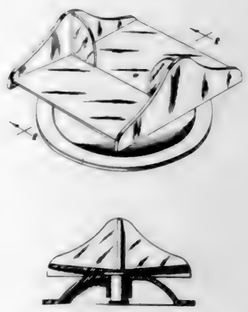
The ornamental design for a vehicle tire, substantially as shown.

161,156
FRAME FOR A HANDBAG
Mitchel R. Bienen, New York, N. Y.
Application August 9, 1950, Serial No. 11,689
Term of patent 7 years
(Cl. D87—3)



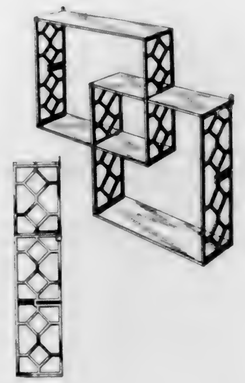
The ornamental design for a frame for a handbag, substantially as shown.

161,157
ROTARY CARD HOLDER
George Browning, San Diego, Calif.
Application January 10, 1950, Serial No. 7,140
Term of patent 3½ years
(Cl. D34—13)



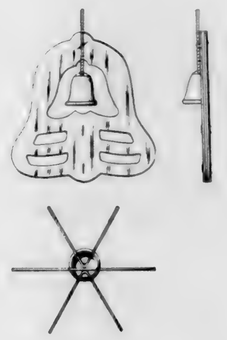
The ornamental design for a rotary card holder, substantially as shown.

161,158
SHADOW BOX
John A. Bu Gay, Chicago, Ill., assignor to Quality Molding Co., Chicago, Ill., a partnership
Application February 28, 1950, Serial No. 8,201
Term of patent 3½ years
(Cl. D33—3)



The ornamental design for a shadow box, as shown.

161,159
CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
George Burros, New York, N. Y., assignor to Burros & Burros, Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,124
Term of patent 7 years
(Cl. D29—1)



The ornamental design for a Christmas tree ornament or similar article, substantially as shown.

161,160
CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
George Burros, New York, N. Y., assignor to Burros & Burros, Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,127
Term of patent 7 years
(Cl. D29—1)

The ornamental design for a Christmas tree ornament or similar article, substantially as shown.

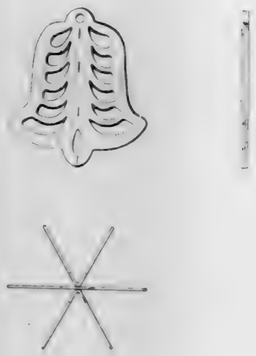
161,161
CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
George Burros, New York, N. Y., assignor to Burros & Burros, Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,132
Term of patent 7 years
(Cl. D29—1)

The ornamental design for a Christmas tree ornament or similar article substantially as shown.

161,162
CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
George Burros, New York, N. Y., assignor to Burros & Burros, Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,134
Term of patent 7 years
(Cl. D29—1)

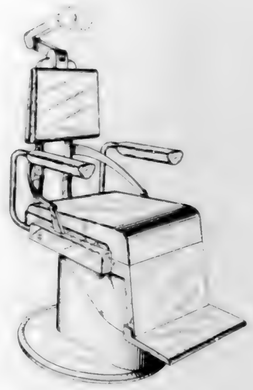
The ornamental design for a Christmas tree ornament or similar article, substantially as shown.

161,163
CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
George Burros, New York, N. Y., assignor to Burros & Burros, Inc., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,136
Term of patent 7 years
(Cl. D29—1)



The ornamental design for a Christmas tree ornament or similar article, substantially as shown.

161,164
ADJUSTABLE CHAIR
Francesco Collura, New York, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 19, 1950, Serial No. 10,047
Term of patent 14 years
(Cl. D15—2)

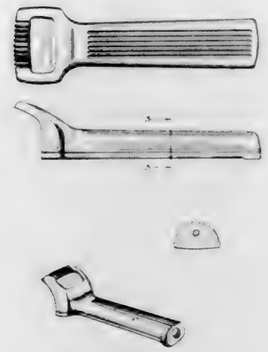


The ornamental design for an adjustable chair, substantially as shown and described.

161,165
DISH
Donald M. Dickenson, Jr., White Plains, N. Y., assignor of one-half to Albert O. Coates, Providence, R. I.
Application June 9, 1950, Serial No. 10,445
Term of patent 7 years
(Cl. D44—10)

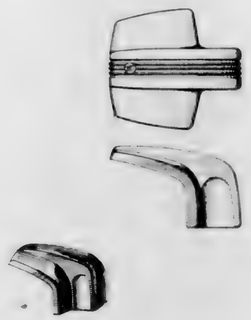
The ornamental design for a dish, as shown.

161,166
HANDLE FOR A COOKING UTENSIL
Alan W. Duncan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application April 26, 1949, Serial No. 2,266
Term of patent 3½ years
(Cl. D44—29)



The ornamental design for a handle for a cooking utensil, as shown.

161,167
HANDLE FOR A COOKING UTENSIL
Alan W. Duncan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application April 27, 1949, Serial No. 2,302
Term of patent 3½ years
(Cl. D44—29)

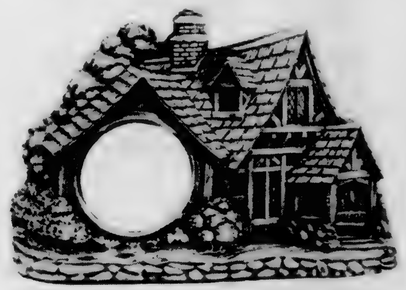


The ornamental design for a handle for a cooking utensil, as shown and described.

161,168
DESK OR SIMILAR ARTICLE
Jerome C. Eisenberg, West Orange, N. J.
Application July 30, 1949, Serial No. 4,216
Term of patent 14 years
(Cl. D33—7)

The ornamental design for a desk or similar article, as shown.

161,169
CLOCK CASING
Frederic H. Fisher, Syracuse, N. Y., assignor to Crestwood Products Co. Inc., Syracuse, N. Y., a corporation of New York
Application April 6, 1950, Serial No. 9,013
Term of patent 3½ years
(Cl. D42—7)

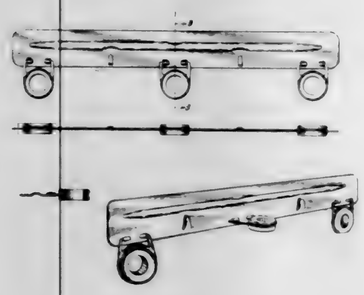


The ornamental design for a clock casing, substantially as shown and described.

161,170
SEPARABLE CHRISTMAS TREE OR SIMILAR ARTICLE
Marie Fridinger, Vienna, Austria
Application May 18, 1948, Serial No. 146,427
In Austria October 10, 1947
Term of patent 3½ years
(Cl. D29—1)

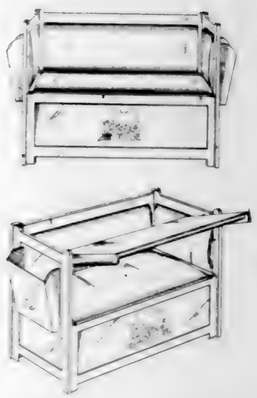
The ornamental design for a separable Christmas tree or similar article, substantially as shown.

161,171
UTENSIL HOLDER
Robert F. Gardner, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application September 12, 1949, Serial No. 4,959
Term of patent 14 years
(Cl. D44—29)



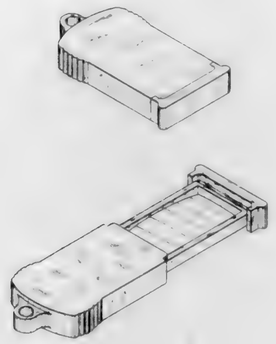
The ornamental design for a utensil holder, as shown.

161,172
COMBINATION TOY CHEST, DESK, AND LOVE SEAT FOR CHILDREN
Meyer Greene, Oceanside, N. Y.
Application November 19, 1948, Serial No. 149,708
Term of patent 3½ years
(Cl. D34—15)



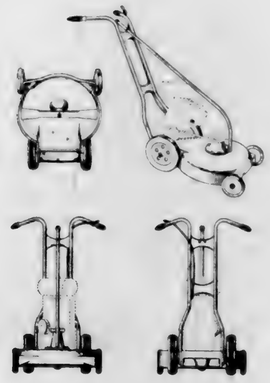
The ornamental design for a combination toy chest, desk, and love seat for children, substantially as shown and described.

161,173
MAGNIFYING GLASS
Frank J. Gubics, Cleveland, Ohio
Application April 12, 1950, Serial No. 9,159
Term of patent 14 years
(Cl. D57—1)



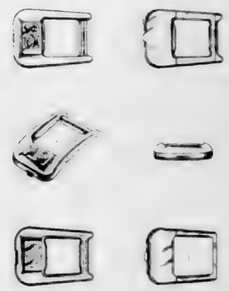
The ornamental design for a magnifying glass, as shown and described.

161,174
POWER MOWING MACHINE
Paul W. Hainke, Hutchinson, Kans., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans., a corporation of Kansas
Application November 21, 1949, Serial No. 6,164
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a power mowing machine, as shown and described.

161,175
COMBINED SEPARABLE BUCKLE AND PICTURE CONTAINER
Moses Halio, Rockville Centre, N. Y.
Application June 27, 1950, Serial No. 10,778
Term of patent 7 years
(Cl. D17—1)



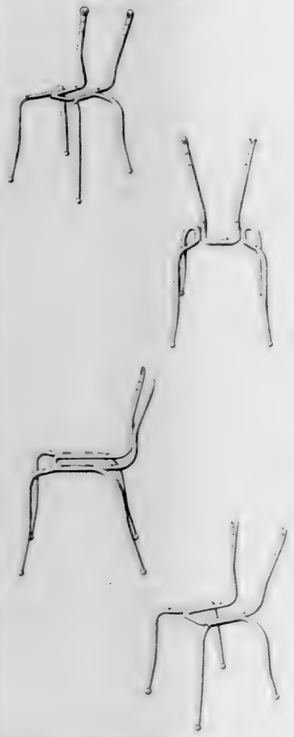
The ornamental design for a combined separable buckle and picture container, substantially as shown.

161,176
RAINCOAT
Maurice S. Handler, New York, N. Y.
Application December 20, 1948, Serial No. 150,245
Term of patent 3½ years
(Cl. D3—4)

The ornamental design for a raincoat, substantially as shown.

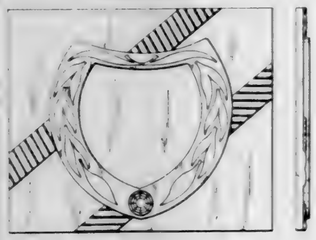
161,183

161,177
CHAIR FRAME
Charles W. Harrison, Warsaw, Ind., assignor to Arnolt Corporation, Warsaw, Ind., a corporation of Indiana
Application September 27, 1948, Serial No. 148,779
Term of patent 14 years
(Cl. D15—8)



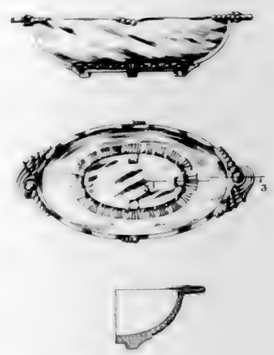
The ornamental design for a chair frame, substantially as shown.

161,178
PHOTOGRAPHIC MOUNT
Jacob Hecht, New York, N. Y.
Application September 21, 1950, Serial No. 12,287
Term of patent 14 years
(Cl. D61—1)



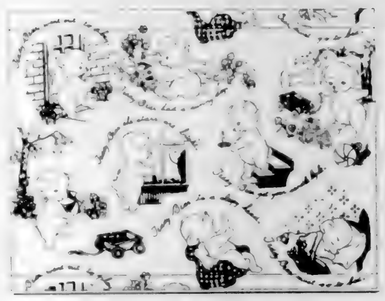
The ornamental design for a photographic mount, as shown.

161,179
GLASS BOWL OR SIMILAR ARTICLE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio
Application April 12, 1950, Serial No. 9,151
Term of patent 14 years
(Cl. D36—2)



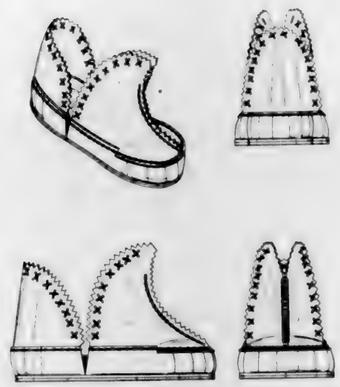
The ornamental design for a glass bowl or similar article, substantially as shown.

161,180
FABRIC OR SIMILAR ARTICLE
Janet Heller, Van Nuys, Calif.
Application December 5, 1949, Serial No. 6,415
Term of patent 14 years
(Cl. D92—1)



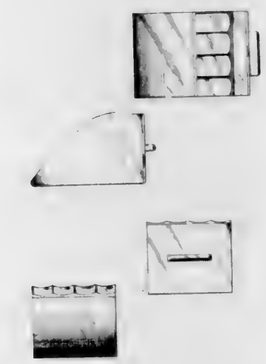
The ornamental design for a fabric or similar article, as shown and described.

161,181
INFANT'S SHOE
Otto A. Hildebrand, St. Louis, Mo.
Application July 28, 1950, Serial No. 11,450
Term of patent 14 years
(Cl. D7—7)



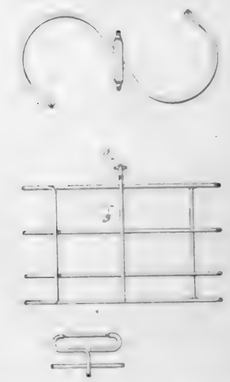
The ornamental design for an infant's shoe, as shown and described.

161,182
MANICURIST'S HAND REST
William J. Hudson, Los Altos, and Arnold W. Scheier, Woodside, Calif.
Application November 17, 1949, Serial No. 6,103
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a manicurist's hand rest, as shown.

161,183
DISH RACK OR THE LIKE
Sue Urth Irwin, Los Angeles, Calif.
Application October 10, 1949, Serial No. 5,397
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a dish rack or the like, as shown.

161,184
NECKLACE OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 14, 1950, Serial No. 11,178
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,185
NECKLACE OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 14, 1950, Serial No. 11,179
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

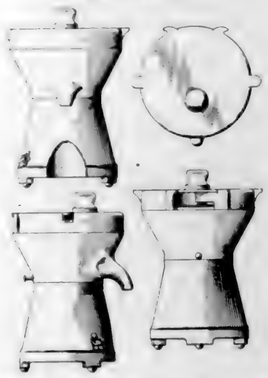
161,186
NECKLACE OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 14, 1950, Serial No. 11,180
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,187
LAMP REFLECTOR
Arthur A. Klepper, deceased, late of Forest Hills, N. Y., by Irina Klepper, executrix, Forest Hills, N. Y.
Application February 17, 1950, Serial No. 7,974
Term of patent 14 years
(Cl. D48—15)

The ornamental design for a lamp reflector, as shown.

161,188
MACERATOR AND JUICE EXTRACTOR
Rolland E. Klug, Glen Ellyn, Ill.
Application November 2, 1949, Serial No. 5,831
Term of patent 14 years
(Cl. D89—1)

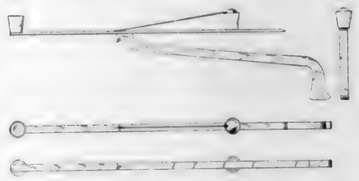


The ornamental design for a macerator and juice extractor, as shown.

161,189
EXTENSIBLE WRIST WATCH BAND OR SIMILAR ARTICLE
Leroy H. Knibb, Sabot, Va.
Application May 13, 1948, Serial No. 146,353
Term of patent 14 years
(Cl. D45—4)

The ornamental design for an extensible wrist watch band or similar article, substantially as shown.

161,190
TETHERED BALL GAME DEVICE
Sandy Lang, Chicago, Ill.
Application December 17, 1949, Serial No. 6,690
Term of patent 14 years
(Cl. D34—15)

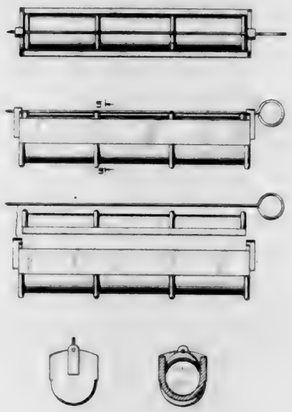


The ornamental design for a tethered ball game device, substantially as shown.

161,191
DINNER PLATE OR SIMILAR ARTICLE
Pascal L'Anglais, New York, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application April 18, 1950, Serial No. 9,282
Term of patent 14 years
(Cl. D44—15)

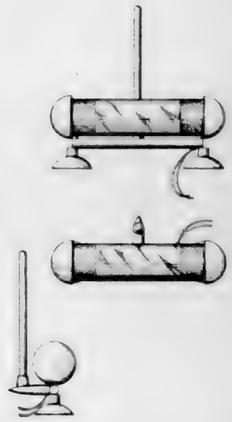
The ornamental design for a dinner plate or similar article, as shown and described.

161,192
MEAT MOLD
Jack Lebovitz, Pittsburgh, Pa., assignor, by mesne assignments, to C. E. Dippel & Company, New York, N. Y.
Application June 22, 1949, Serial No. 3,451
Term of patent 3½ years
(Cl. D44—29)



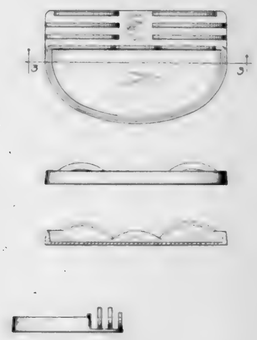
The ornamental design for a meat mold, substantially as shown.

161,193
VEHICLE LIGHT
Harold L. Lester, Boscobel, Wis.
Application April 21, 1950, Serial No. 9,399
Term of patent 7 years
(Cl. D48—32)



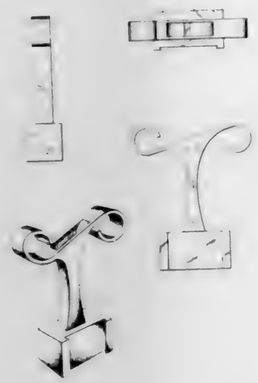
The ornamental design for a vehicle light, as shown.

161,194
COMBINED COMB STAND AND TRAY
Peter Morroni, Leominster, Mass.
Application December 17, 1949, Serial No. 6,681
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a combined comb stand and tray, as shown.

161,195
COMBINED VASE AND CARD HOLDER
Mary Mortimer, Lansing, Mich.
Application March 9, 1950, Serial No. 8,430
Term of patent 7 years
(Cl. D29—28)

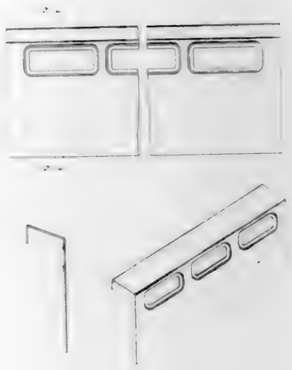


The ornamental design for a combined vase and card holder, as shown.

161,196
TOOTHBRUSH AND TOOTH PASTE TUBE HOLDER OR SIMILAR ARTICLE
Gustave A. Moskowitz, Washington, D. C.
Application September 23, 1949, Serial No. 5,153
Term of patent 14 years
(Cl. D4—3)

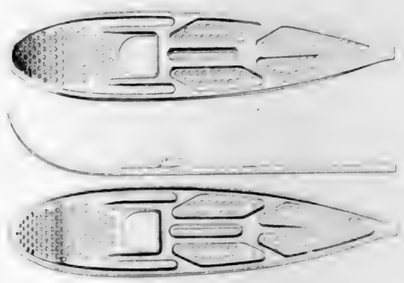
The ornamental design for a tooth brush and tooth paste tube holder or similar article, substantially as shown.

161,197
RADIATOR COVER
Thomas F. O'Connor, Jr., Hartford, Conn., assignor to The Vulcan Radiator Company, Hartford, Conn., a corporation of Connecticut
Application August 17, 1949, Serial No. 4,564
Term of patent 7 years
(Cl. D81—21)



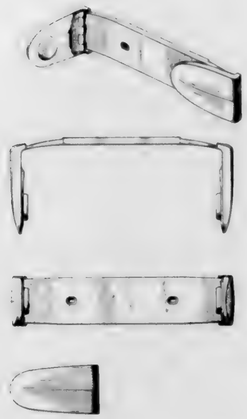
The ornamental design for a radiator cover, substantially as shown.

161,198
SNOWSHOE
Frederick T. Paden, Washington, D. C.
Application June 10, 1949, Serial No. 3,169
Term of patent 3½ years
(Cl. D34—14)



The ornamental design for a snowshoe, as shown and described.

161,199
PAPER TOWEL ROLL HOLDER
Albert A. Perelman, Brooklyn, N. Y., assignor to Scott Paper Company, Chester, Pa., a corporation of Pennsylvania
Application May 23, 1949, Serial No. 2,817
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a paper towel roll holder, as shown.

161,200
DOORSTOP
William Howard Phelps, Ralston, Nebr.
Application November 22, 1949, Serial No. 6,194
Term of patent 7 years
(Cl. D10—7)

The ornamental design for a doorstop, as shown.

161,201
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application August 1, 1950, Serial No. 11,517
Term of patent 7 years
(Cl. D45—9)

The ornamental design for an earring or similar article, substantially as shown.

161,202
EARRING OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application August 1, 1950, Serial No. 11,518
Term of patent 7 years
(Cl. D45—9)

The ornamental design for an earring or similar article, substantially as shown.

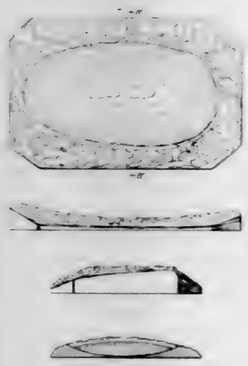
161,203
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 26, 1950, Serial No. 11,528
Term of patent 7 years
(Cl. D45—16)

The ornamental design for a necklace or similar article, substantially as shown.

161,204
NECKLACE OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 26, 1950, Serial No. 11,529
Term of patent 7 years
(Cl. D45—16)

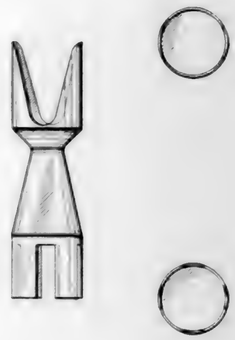
The ornamental design for a necklace or similar article, substantially as shown.

161,205
SERVING PLATTER OR SIMILAR ARTICLE
Le Roy H. Raleigh, Ogden, Utah
Application May 20, 1950, Serial No. 10,070
Term of patent 14 years
(Cl. D44—10)



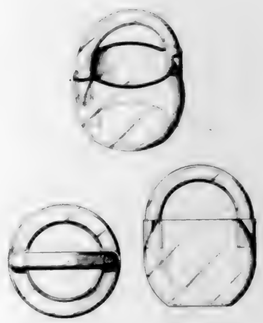
The ornamental design for a serving platter or similar article, as shown.

161,206
POT COVER HOLDER
Paula Redlich, New York, and Erwin C. Steiner, Jackson Heights, N. Y.
Application January 23, 1950, Serial No. 7,407
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a pot cover holder, as shown.

161,207
COMBINATION TRANSPARENT FISH BOWL AND HANDLE
Earl A. Rice, Mercersburg, Pa.
Application September 26, 1949, Serial No. 5,175
Term of patent 14 years
(Cl. D91—2)

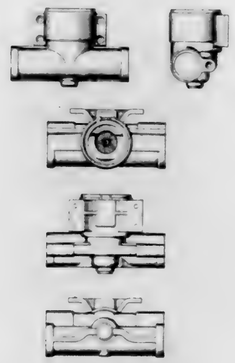


The ornamental design for a combination transparent fish bowl and handle, as shown.

161,208
ALPHABET DISH SET
Clark W. Riddle, Provo, Utah
Application August 16, 1948, Serial No. 148,138
Term of patent 3½ years
(Cl. D44—10)

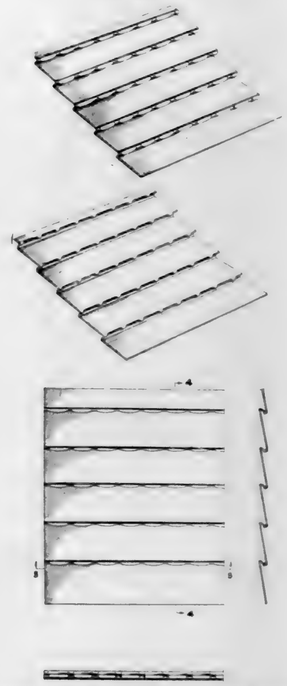
The ornamental design for an alphabet dish set, as shown.

161,209
DOOR CLOSER CASING
Samuel F. Rolph, Arlington Heights, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application July 1, 1948, Serial No. 147,319
Term of patent 14 years
(Cl. D10—7)



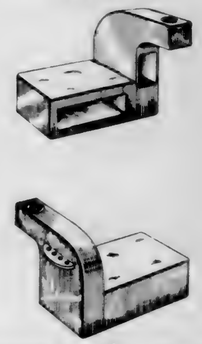
The ornamental design for a door closer casing, as shown.

161,210
RIGID COVERING FOR AWNINGS OR LIKE STRUCTURES
Donald H. Ruggles, Tulsa, Okla.
Application September 19, 1949, Serial No. 5,080
Term of patent 14 years
(Cl. D21—6)



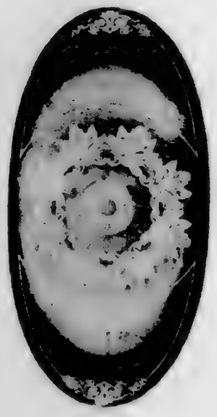
The ornamental design for a rigid covering for awnings or like structures, as shown.

161,211
HASSOCK
Anthony Saccoccia, Providence, R. I.
Application February 23, 1950, Serial No. 8,055
Term of patent 14 years
(Cl. D15—8)



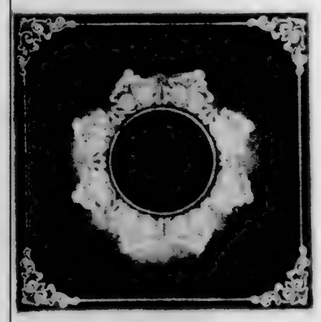
The ornamental design for a hassock, substantially as shown.

161,212
LEATHER TABLE TOP OR SIMILAR ARTICLE
Louis Scalera, Newark, N. J.
Application December 9, 1949, Serial No. 6,526
Term of patent 3½ years
(Cl. D33—14)



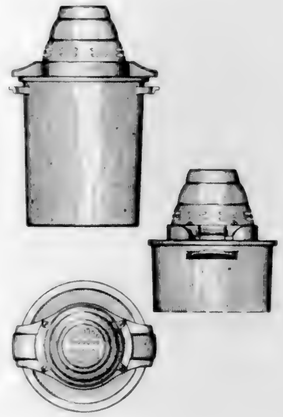
The ornamental design for a leather table top or similar article, as shown and described.

161,213
LEATHER TABLE TOP OR SIMILAR ARTICLE
Louis Scalera, Newark, N. J.
Application December 9, 1949, Serial No. 6,527
Term of patent 3½ years
(Cl. D33—14)



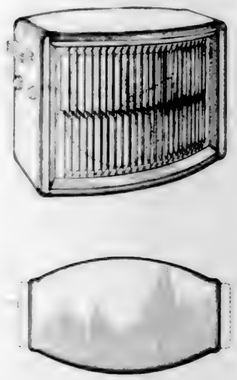
The ornamental design for a leather table top or similar article, as shown and described.

161,214
ICE CREAM FREEZER
Ford Se Bastian, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 10, 1949, Serial No. 6,555
Term of patent 14 years
(Cl. D67—2)



The ornamental design for an ice cream freezer, as shown and described.

161,215
AIR CIRCULATOR
Ford Se Bastian, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 5, 1950, Serial No. 7,016
Term of patent 14 years
(Cl. D62—4)

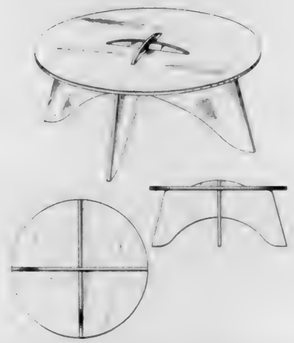


The ornamental design for an air circulator, as shown and described.

161,216
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 15, 1950, Serial No. 9,235
Term of patent 14 years
(Cl. D59—10)

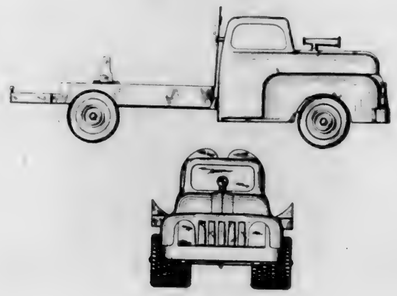
The ornamental design for a wallpaper or the like, substantially as shown.

161,217
TABLE
Isador Silverman, Cleveland Heights, Ohio
Application January 23, 1948, Serial No. 144,005
Term of patent 7 years
(Cl. D33—14)

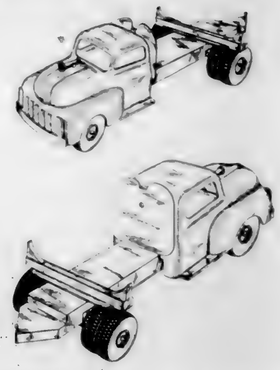


The ornamental design for a table, substantially as shown.

161,218
TOY TRUCK
Clayton E. Steinke, Salem, Oreg.
Application October 6, 1949, Serial No. 5,322
Term of patent 14 years
(Cl. D34—15)

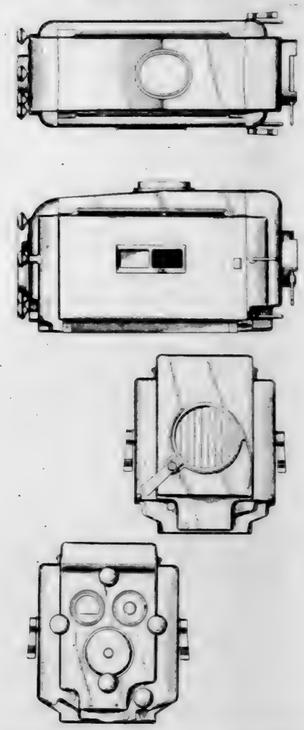


161,218—Continued



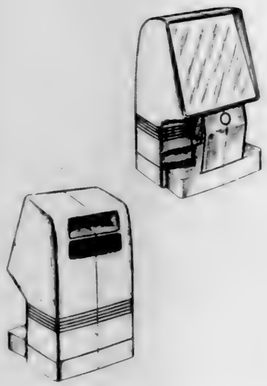
The ornamental design for a toy truck, as shown.

161,219
PROJECTION LAMP
Kenneth A. Van Dyck, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 24, 1949, Serial No. 6,832
Term of patent 14 years
(Cl. D61—1)



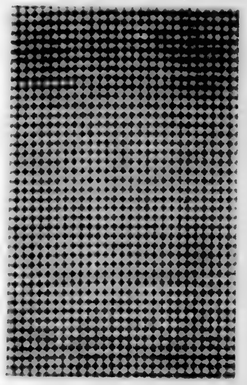
The ornamental design for a projection lamp, as shown.

161,220
SLIDE PROJECTOR WITH SCREEN
Kenneth A. Van Dyck, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 8, 1950, Serial No. 9,066
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a slide projector with screen, as shown and described.

161,221
TEXTILE FABRIC
John Walther, New York, N. Y.
Application August 1, 1950, Serial No. 11,516
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown.

161,222
TEXTILE FABRIC
John Walther, Jr., New York, N. Y.
Application June 22, 1950, Serial No. 10,681
Term of patent 7 years
(Cl. D92—1)

The ornamental design for a textile fabric, substantially as shown.

161,223
TEXTILE FABRIC
John Walther, Jr., New York, N. Y.
Application June 22, 1950, Serial No. 10,682
Term of patent 7 years
(Cl. D92—1)

The ornamental design for a textile fabric, substantially as shown.

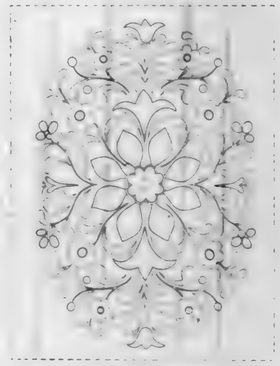
161,224
SPOON
Mildred L. Wendling, Portland, Oreg.
Application April 13, 1948, Serial No. 145,676
Term of patent 14 years
(Cl. D44—29)

The ornamental design for a spoon, as shown.

161,225
RUBBER MAT OR SIMILAR ARTICLE
Ada Westrate, Chicago, Ill., assignor, by mesne assignments, to The Buxbaum Company, Canton, Ohio, a corporation of Ohio
Application November 23, 1949, Serial No. 6,224
Term of patent 7 years
(Cl. D9—6)

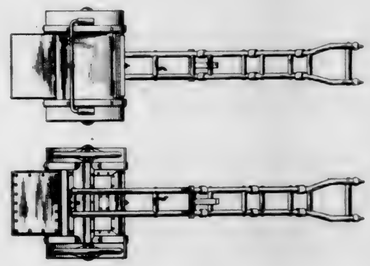
The ornamental design for a rubber mat or similar article, substantially as shown and described.

161,226
RUBBER MAT OR SIMILAR ARTICLE
Ada Westrate, Chicago, Ill., assignor, by mesne assignments, to The Buxbaum Company, Canton, Ohio, a corporation of Ohio
Application November 23, 1949, Serial No. 6,226
Term of patent 7 years
(Cl. D9—6)

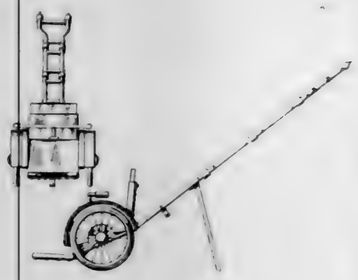


The ornamental design for a rubber mat or similar article, substantially as shown and described.

161,227
STROLLER
James T. Wheeler, Atlanta, Ga.
Application March 4, 1948, Serial No. 144,903
Term of patent 3½ years
(Cl. D14—14)



161,227—Continued

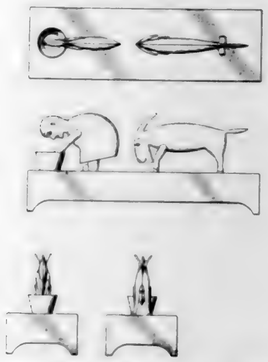


The ornamental design for a stroller, as shown.

161,228
BOWL
Carl Wilkerson, Arcata, Calif.
Application May 10, 1948, Serial No. 146,254
Term of patent 14 years
(Cl. D44—10)

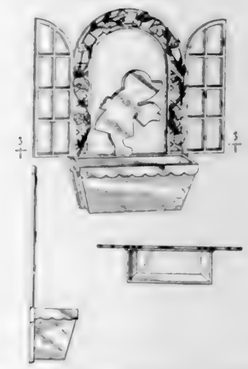
The ornamental design for a bowl, as shown.

161,229
FIGURE TOY
David H. Wilner, Los Angeles, Calif.
Application January 3, 1949, Serial No. 23
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a figure toy, as shown.

161,230
COMBINED PLANT RECEPTACLE AND SUPPORT
Bernard Yellin, Chicago, Ill.
Application January 12, 1950, Serial No. 7,174
Term of patent 7 years
(Cl. D35—3)



The ornamental design for a combined plant receptacle and support, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A/S Trondhjem Canning and Export Co., Trondheim, Norway. Sardines, kippers, fish-balls, etc. Serial No. 514,581, Dec. 12. Class 46.

Ablin Limited, London, England. Pharmaceutical preparations. Serial No. 593,641, Dec. 12. Class 18.

Acme Sawdust Company: *See*—
Twining, Homer L.

Adam Hat Stores, Inc., New York, N. Y. Men's hats. Serial No. 584,957, Dec. 12. Class 39.

Agfa Camera Werk Munchen, assignee: *See*—
Alfa Photo Corp.

Air-Maze Corporation, Cleveland, Ohio. Electrostatic filters. Serial No. 566,488, Dec. 12. Class 21.

Alfa Photo Corp., New York, N. Y., assignor to Agfa Camera Werk Munchen, Munich, Germany. Cameras. Serial No. 590,728, Dec. 12. Class 26.

Alma Industries: *See*—
Shapiro, Elias.

Altman, B., & Co., New York, N. Y. Men's suits, sport coats, topcoats, and overcoats. Serial No. 587,929, Dec. 12. Class 39.

American Reenforced Paper Company, Attleboro, Mass. Reenforced paper. Serial No. 592,243, Dec. 12. Class 37.

Anderson-Miller Manufacturing Co., Spokane, Wash. Tubular pipes and metal pipe fittings. Serial No. 570,242, Dec. 12. Class 13.

Argonaut Enterprises, Inc., Sag Harbor, N. Y. Decks of playing cards. Serial No. 586,784, Dec. 12. Class 22.

Armour and Company, Chicago, Ill. Sausage. Serial No. 550,771, Dec. 12. Class 46.

Armour and Company, Chicago, Ill. Pork sausage. Serial No. 550,772, Dec. 12. Class 46.

Armstrong Paint & Varnish Works, Chicago, Ill. Ready mixed paints. Serial No. 540,612, Dec. 12. Class 16.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles. Serial No. 591,547, Dec. 12. Class 19.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 561,798, Dec. 12. Class 42.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Hatchets, nail hammers, saws, etc. Serial No. 579,075, Dec. 12. Class 23.

Bettis Rubber Company, Los Angeles, Calif. Drill pipe protectors. Serial No. 532,203, Dec. 12. Class 35.

Bockman, Ray, doing business under the name of Nusite, Warsaw, Ind. Steel cutting tools. Serial No. 573,866, Dec. 12. Class 23.

Boeing Airplane Company, Seattle, Wash. Airplanes. Serial No. 590,216, Dec. 12. Class 19.

Bond Vacuum Stores, Inc., Washington, D. C. Electric vacuum cleaners. Serial No. 572,828, Dec. 12. Class 21.

Bourne Mills, Fall River, Mass. Sateen. Serial No. 598,233, Dec. 12. Class 42.

Bradley, Milton, Company, Springfield, Mass. Artists' finger paints. Serial No. 565,064, Dec. 12. Class 16.

Callot Soeurs of Paris, Inc., New York, N. Y. Perfumes. Serial No. 570,943, Dec. 12. Class 51.

Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Tube, capillary tube, commercial tube, etc. Serial No. 536,874, Dec. 12. Class 13.

Cameo Curtains Inc., New York, N. Y. Window curtains. Serial No. 581,172, Dec. 12. Class 42.

Canfield, A. J., Co., Chicago, Ill. Sparkling water, ginger-ale, root beer, etc. Serial No. 573,027, Dec. 12. Class 45.

Caramel Crisp Shop: *See*—
Walter, Paul.

Central City Pickle Co., Peoria, Ill. Vinegar. Serial No. 515,861, Dec. 12. Class 46.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Photographic chemicals. Serial No. 575,847, Dec. 12. Class 6.

Cherry-Burrell Corporation, Chicago, Ill. Pod type vat outlets; can fillers; thermometer holders. Serial No. 485,722, Dec. 12. Class 13.

Chicago Towel Company, Chicago, Ill. Cloth towels. Serial No. 548,138, Dec. 12. Class 42.

Clearflow Valves: *See*—
Plummer, Geo. A.

Clinton Foods Inc., Clinton, Iowa. Laundry starch. Serial No. 593,104, Dec. 12. Class 6.

Clow, James B., & Sons, Chicago, Ill. Pedestal drinking fountains. Serial No. 566,971, Dec. 12. Class 13.

Columbian Steel Tank Company, Kansas City, Mo. Aircraft refueling trucks. Serial No. 566,502, Dec. 12. Class 19.

Consolidated Cosmetics, Chicago, Ill. Lipstick, face powder, solid cologne, and brilliantine. Serial No. 591,020, Dec. 12. Class 51.

Consolidated Engineers Company, Inc., Chicago, Ill. Liquid fuel oil addition. Serial No. 592,612, Dec. 12. Class 15.

Continental Carbon, Inc., Cleveland, Ohio. Electrical resistors. Serial No. 596,484, Dec. 12. Class 21.

Cords Piston Ring Manufacturing Co. Inc., Los Angeles, Calif. Piston rings. Serial No. 583,466, Dec. 12. Class 35.

Croall, C. V., Corporation, Santa Rosa, Calif. Mix containing fruit and fruit juice. Serial No. 585,634, Dec. 12. Class 46.

Dad's Cookie Company, Los Angeles, Calif. Cookies. Serial No. 588,844, Dec. 12. Class 46.

Dan River Mills, Incorporated, Danville, Va. Cotton piece goods. Serial No. 598,006, Dec. 12. Class 42.

Davison Chemical Corporation, The, Baltimore, Md. Silica gel flatting agent. Serial No. 579,532, Dec. 12. Class 6.

Deckmann, Richard W., Pittsburgh, Pa. Concentrated flavoring extract. Serial No. 580,649, Dec. 12. Class 46.

Delaware Mushroom Cooperative Association, Wilmington, Del. Canned mushrooms. Serial No. 588,482, Dec. 12. Class 46.

Dell, Samuel M., & Co., Incorporated, Baltimore, Md. Paint brushes and varnish brushes. Serial No. 575,464, Dec. 12. Class 29.

Diamond, Louis H., Colorado Springs, Colo. Wrenches. Serial No. 585,106, Dec. 12. Class 23.

Diamond Match Company, The, New York, N. Y. Wooden spoons and wooden forks. Serial No. 589,645, Dec. 12. Class 23.

Display Lighting, Incorporated, New York, N. Y. Vertically adjustable depending supports for theatre and studio lights, microphones, etc. Serial No. 585,158, Dec. 12. Class 21.

Donovan Enterprises, Incorporated, Saugatuck, Conn. Children's coats. Serial No. 587,626, Dec. 12. Class 39.

Drexel Furniture Company, Drexel, N. C. Living room furniture; dining room furniture; bedroom furniture. Serial No. 591,074, Dec. 12. Class 32.

Dunham, C. A., Company, Chicago, Ill. Steam heating apparatus. Serial No. 528,265, Dec. 12. Class 34.

Durametallic Corporation, Kalamazoo, Mich. Packing in plastic form. Serial No. 578,576, Dec. 12. Class 35.

Eastern Clay Products, Inc., Jackson, Ohio. Resilient wear inserts. Serial No. 572,954, Dec. 12. Class 23.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic lenses. Serial No. 582,526, Dec. 12. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras. Serial No. 597,390, Dec. 12. Class 26.

Edsam Screw Machine Products, Maple Shade, N. J. Lawn and garden rotary sprinkler. Serial No. 544,433, Dec. 12. Class 13.

Elkhart Brass Manufacturing Company, Inc., Elkart, Ind. Fire hose rack. Serial No. 539,861, Dec. 12. Class 13.

Ely & Walker Dry Goods Company, St. Louis, Mo. Textile piece goods. Serial No. 542,298, Dec. 12. Class 42.

Endless Belt Corporation, Pisgah Forest, N. C. Linen, cotton, and other fabric endless belts. Serial No. 572,618, Dec. 12. Class 35.

Fairbridge Co. Incorporated, Bridgeport, Conn. Magnifying lens attachments for incandescent electric bulbs. Serial No. 568,304, Dec. 12. Class 26.

Federal Manufacturing & Engineering Corp., Brooklyn, N. Y. Cooking utensils. Serial No. 584,757, Dec. 12. Class 13.

Firmenich & Co. Successeurs de la Societe Anonyme M. Naef & Cie. Geneva, Switzerland. Chemical products. Serial No. 550,800, Dec. 12. Class 6.

Flagg, Stanley G., & Co., Inc., Philadelphia, Pa. Metal pipe fittings. Serial No. 592,139, Dec. 12. Class 13.

Florida Citrus Exchange, Tampa, Fla. Fresh citrus fruits. Serial No. 562,772, Dec. 12. Class 46.

Fraternity of Phi Gamma Delta, Washington, D. C. Periodical publication. Serial No. 592,679, Dec. 12. Class 38.

French Saxon China Company, The, Sebring, Ohio. Glazed ceramic dishes. Serial No. 595,132, Dec. 12. Class 30.

Fulper Pottery Company, Trenton, N. J. Dishes and vases. Serial No. 567,572, Dec. 12. Class 30.

Fulton Shirt Co. Inc., New York, N. Y. Shirts. Serial No. 591,617, Dec. 12. Class 39.

Gamble-Skogmo, Inc., Minneapolis, Minn. Household electric refrigerators, refrigerated storage lockers, etc. Serial No. 580,882, Dec. 12. Class 31.

General Motors Corporation, Detroit, Mich. Developing and supervising programs. Serial No. 536,075, Dec. 12. Class 107.

General Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires. Serial No. 580,238, Dec. 12. Class 35.

Gilbert & Bennett Mfg. Co., The, Georgetown, Conn. Wire cloth, wire netting, etc. Serial No. 541,535, Dec. 12. Class 13.

Giovanni, Edward S., New York, N. Y. Ashtrays. Serial No. 573,900, Dec. 12. Class 8.

Goldman, Wm. P., & Bros., Inc., New York, N. Y. Men's suits, topcoats, overcoats, etc. Serial No. 586,919, Dec. 12. Class 39.

Goldstone Bros., San Francisco, Calif. Boys' jeans, pants and trousers. Serial No. 587,438, Dec. 12. Class 39.

Good Luck Glove Company, Carbondale, Ill. Fabric work gloves. Serial No. 528,922, Dec. 12. Class 39.

Grand Rapids Varnish Corporation, Grand Rapids, Mich. Paint enamel. Serial No. 576,201, Dec. 12. Class 16.
Gum Products, Inc., East Boston, Mass. Chewing gum. Serial No. 558,489, Dec. 12. Class 46.
H & L Block, San Francisco, Calif. Sportswear. Serial No. 543,414, Dec. 12. Class 39.
Hague, Morton, doing business as Lazy Daisy International, Michigan City, Ind. Utility carts. Serial No. 594,772, Dec. 12. Class 19.
Hallmark Shirt Co., Inc., The, New York, N. Y. Men's and boys' outer shirts and pajamas. Serial No. 525,829, Dec. 12. Class 39.
Hampton Furniture Shops, New York, N. Y., assignor to Hampton Modern, Inc., Paterson, N. J. Refectory tables, coffee tables, lamp tables, etc. Serial No. 548,256, Dec. 12. Class 32.
Hampton Modern, Inc.: *See*—
Hampton Furniture Shops.
Hanover Canning Company, Hanover, Pa. Canned vegetables. Serial No. 594,542, Dec. 12. Class 46.
Harper, H. M., Company, The, Morton Grove, Ill. Threaded bolts, nuts, screws, etc. Serial No. 589,258, Dec. 12. Class 13.
Hastings Manufacturing Company, Hastings, Mich. Piston rings. Serial No. 563,477, Dec. 12. Class 35.
Haviland & Co., Incorporated: *See*—
Haviland, Theodore, & Co. Inc.
Haviland & Co., Incorporated, New York, N. Y., by change of name from Theodore Haviland & Co. Inc. Porcelain, china and vitrified dinnerware. Serial No. 592,491, Dec. 12. Class 30.
Haviland, Theodore, & Co. Inc.: *See*—
Haviland & Co., Incorporated.
Haviland, Theodore, & Co. Inc., New York, N. Y., now by change of name, Haviland & Co., Incorporated. Porcelain, china and vitrified dinnerware. Serial No. 588,801, Dec. 12. Class 30.
Heller Brothers Company, Newark, N. J. Trowels. Serial No. 595,956, Dec. 12. Class 23.
Hewlett-Packard, Palo Alto, Calif. Voltmeters. Serial No. 595,778, Dec. 12. Class 26.
Hewlett-Packard Company, Palo Alto, Calif. Frequency meters, tachometers, voltmeters and wattmeters. Serial No. 595,780, Dec. 12. Class 26.
Hickok Manufacturing Co. Inc., Rochester, N. Y. Suspenders and garters. Serial No. 585,937, Dec. 12. Class 39.
Hodell Chain Company, The, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio. Wire chain in coils, porch-swing chains, hammock-chains, and pump-chains. Serial No. 544,575, Dec. 12. Class 13.
Hodges Research and Development Company, Redwood City, Calif. Organic silicate oils and greases. Serial No. 592,630, Dec. 12. Class 15.
Holly Molding Devices, Inc., Chicago, Ill. Cut-to-size sheets of woven and plastic material and combinations thereof. Serial No. 524,465, Dec. 12. Class 23.
Holt Manufacturing Company, Oakland, Calif. Electrical portable floor machines. Serial No. 578,504, Dec. 12. Class 21.
Hooker & Sanders, Incorporated, New York, N. Y. Yarns. Serial No. 595,073, Dec. 12. Class 43.
Hooker & Sanders, Incorporated, New York, N. Y. Yarns. Serial No. 595,604, Dec. 12. Class 43.
Hospital Specialty Company, The, Cleveland, Ohio. Sanitary neckbands. Serial No. 555,098, Dec. 12. Class 37.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated compression sprayers. Serial No. 583,262, Dec. 12. Class 23.
Huffman Manufacturing Company, The, Dayton, Ohio. Bicycles and structural parts thereof. Serial No. 594,642, Dec. 12. Class 19.
Hypro Engineering, Inc., Minneapolis, Minn. Water supply systems. Serial No. 590,437, Dec. 12. Class 23.
Imagineering Associates, Incorporated, Los Angeles, Calif. Scientific and industrial models. Serial No. 510,255, Dec. 12. Class 26.
Indera Mills Company, Winston-Salem, N. C. Bathing suits, ladies', children's, and misses' knitted and woven slips, etc. Serial No. 545,852, Dec. 12. Class 39.
International Harvester Company, Chicago, Ill. Buses. Serial No. 594,901, Dec. 12. Class 19.
Interstate Finance Corporation, doing business under the name Interstate Greene & Greene Agency, Evansville, Ind. Insurance agency services. Serial No. 539,523, Dec. 12. Class 102.
Interstate Greene & Greene Agency: *See*—
Interstate Finance Corporation.
Jaeger Machine Company, The, Columbus, Ohio. Air compressors. Serial No. 567,740, Dec. 12. Class 23.
Jensen, Georg, Inc., New York, N. Y. Desk set and accessories. Serial No. 504,846, Dec. 12. Class 37.
K-D Manufacturing Company: *See*—
Ellias Shapiro.
Kenron Steel Products: *See*—
Turkin, Nathan H.
Klentzel Noodle Co., Inc., St. Louis, Mo. Popped (and seasoned) pop corn. Serial No. 512,001, Dec. 12. Class 46.
King Research, Inc., Brooklyn, N. Y. Chemical preparation. Serial No. 591,487, Dec. 12. Class 6.
Kiwi Coders Corporation, Chicago, Ill. Printing apparatus. Serial No. 590,894, Dec. 12. Class 23.
Knickerbocker, Karl., doing business under the assumed name of Photo Products Co., St. Clair, Mich. Photographic supplies. Serial No. 587,732, Dec. 12. Class 26.
Krauss, Jenny, Roscommon, Mich. Bells. Serial No. 585,479, Dec. 12. Class 13.
Landis Machine Company, St. Louis, Mo. Machine needles and awls. Serial No. 528,353, Dec. 12. Class 23.
Lazy Daisy International: *See*—
Hague, Morton.
Lock Thread Corporation, Detroit, Mich. Screw connections and parts thereof. Serial No. 539,531, Dec. 12. Class 12.
Los Angeles Brush Mfg. Corp., Los Angeles, Calif. Brushes. Serial No. 571,562, Dec. 12. Class 29.
MacArthur Products, Inc., Springfield, Mass. Set of wheels with brackets therefor. Serial No. 590,985, Dec. 12. Class 19.
MacArthur Products, Inc., Springfield, Mass. Set of wheels with brackets therefor. Serial No. 590,987, Dec. 12. Class 19.
Maritime Milling Co. Inc., Buffalo, N. Y. Feeds for livestock. Serial No. 514,765, Dec. 12. Class 46.
Markwell Manufacturing Company, Inc., New York, N. Y. Machine applied and cohered staples. Serial No. 558,495, Dec. 12. Class 13.
Mar-Sha, Inc., Kansas City, Mo. Scalp and hair ointment. Serial No. 580,370, Dec. 12. Class 18.
Martin, Gilbert F., Jonesville, Mich. Couplers such as for attaching trailers to automobiles. Serial No. 590,556, Dec. 12. Class 19.
McCormick & Company, Inc., Baltimore, Md. Whole spices, ground spices, seeds, etc. Serial No. 588,037, Dec. 12. Class 46.
McCracken Machine Works, Portland, Oreg. Combination air and vacuum relief valves. Serial No. 592,433, Dec. 12. Class 13.
McDowall, A. P., & Co. (Distillers) Limited, Glasgow, Scotland. Rum. Serial No. 580,371, Dec. 12. Class 49.
Messenger Corporation, Auburn, Ind. Greeting cards. Serial No. 592,715, Dec. 12. Class 38.
Molded Products, Inc., Cockeysville, Md. Outboard motor boats. Serial No. 579,645, Dec. 12. Class 19.
Monarch Machine Tool Company, The, Sidney, Ohio. Metal turning lathe. Serial No. 560,824, Dec. 12. Class 23.
Moore, Robert, & Co., New York, N. Y. Semi-monthly letter. Serial No. 565,860, Dec. 12. Class 38.
Musch, William F., Hamilton, Ohio. Electrical down indicators. Serial No. 595,273, Dec. 12. Class 21.
National Screw and Manufacturing Company, The, assignee: *See*—
Hodell Chain Company, The.
National Silver Company, New York, N. Y. Stainless steel table cutlery. Serial No. 601,160, Dec. 12. Class 23.
National Silver Company, New York, N. Y. Stainless steel table cutlery. Serial No. 601,165, Dec. 12. Class 23.
National Silver Company, New York, N. Y. Stainless steel table cutlery. Serial No. 601,456, Dec. 12. Class 23.
National Steel Construction Co., Seattle, Wash. Automatic electric water heaters. Serial No. 595,548, Dec. 12. Class 21.
Navarro Brothers, El Paso, Tex. Western style outdoor clothing. Serial No. 586,648, Dec. 12. Class 39.
Newland, Schneeloch & Piek, Inc., New York, N. Y. Glass dinnerware. Serial No. 597,288, Dec. 12. Class 33.
New York Herald Tribune Inc., New York, N. Y. Comic strip. Serial No. 592,925, Dec. 12. Class 38.
Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. Serial No. 591,695, Dec. 12. Class 38.
Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. Serial No. 592,001, Dec. 12. Class 38.
Northome Furniture Industries, Inc., Dubuque, Iowa. Sofa beds. Serial No. 590,515, Dec. 12. Class 32.
Nusite: *See*—
Bockman, Ray.
Oak Electric Motors, Inc., Burr Oak, Mich. Electric motors. Serial No. 578,886, Dec. 12. Class 21.
Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Ladies' hats and apparel. Serial No. 575,923, Dec. 12. Class 39.
Ohio Textile Products Co., The, Mansfield, Ohio. Suspenders, garters, arm bands, etc. Serial No. 592,158, Dec. 12. Class 39.
Old Black Joe Co., Hohenwald, Tenn. Canned vegetables. Serial No. 594,570, Dec. 12. Class 46.
Oren, Bernard S., doing business as United States Industries, Chicago, Ill. Power driven sanding machines and parts thereof. Serial No. 579,995, Dec. 12. Class 23.
Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial No. 590,321, Dec. 12. Class 38.
Pennsylvania Rubber Company, Jeannette, Pa. Play balls. Serial No. 592,576, Dec. 12. Class 22.
Pep Boys—Manny, Moe & Jack, The, Philadelphia, Pa. Vehicle tires and tubes therefor. Serial No. 596,939, Dec. 12. Class 35.
Perk Foods Co., Chicago, Ill. Animal feeds. Serial No. 566,544, Dec. 12. Class 46.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 593,815, Dec. 12. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial Nos. 593,817–18, Dec. 12. Class 18.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Aqueous antibiotic preparation. Serial No. 593,819, Dec. 12. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 593,820, Dec. 12. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 593,824, Dec. 12. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 593,931, Dec. 12. Class 18.
Phillips & Buttorff Mfg. Co., Nashville, Tenn. Electric ranges, electric water-heaters, electric space-heaters, etc. Serial No. 595,149, Dec. 12. Class 21.
Photo Products Co.: *See*—
Knickerbocker, Karl.
Physicians and Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 580,033, Dec. 12. Class 18.
Pillar of Fire, Zarephath, N. J. Periodical publications. Serial No. 592,515, Dec. 12. Class 38.
Pine Grove Canning Company, Inc., St. Martinville, La. Canned products; bottled whole pepper sauce. Serial No. 552,605, Dec. 12. Class 46.
Plant City Vegetable Cooperative, Plant City, Fla. Fresh vegetables. Serial No. 591,951, Dec. 12. Class 46.
Plummer, Geo. A., doing business as Clearflow Valves, Berkeley, Calif. Metal foot valves, check valves and butterfly valves. Serial No. 543,741, Dec. 12. Class 13.
Pneumatic Scale Corporation, Limited, Quincy, Mass. Mechanical packaging and bottling machinery. Serial No. 597,862, Dec. 12. Class 23.
Port Y-Ne-Me Packing Company, Port Hueneme, Calif. Canned fish. Serial No. 572,269, Dec. 12. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Home permanent waving kit. Serial No. 560,500, Dec. 12. Class 44.
Prym, William, Inc., Dayville, Conn. Button and buckle parts. Serial No. 583,887, Dec. 12. Class 40.
Rath Packing Company, The, Waterloo, Iowa. Lard. Serial No. 539,757, Dec. 12. Class 46.
Renz, J. F., & Sons Company, The, Lima, Ohio. Bread. Serial No. 588,968, Dec. 12. Class 46.
Research Industries: *See*—
Tufts, William F.
Rhoads, J. E., & Sons, Philadelphia, Pa. Belting. Serial No. 583,050, Dec. 12. Class 35.
Ritts, Herbert, Inc., doing business as Tropicmode Furniture Co., Los Angeles, Calif. Chairs, tables, and settees. Serial No. 573,143, Dec. 12. Class 32.
Robapharm Laboratoriums A. G. Basle, Switzerland. Preparations used in the treatment of osteomalacia, osteoporosis, etc. Serial No. 538,962, Dec. 12. Class 18.
Rockwell Manufacturing Company, Pittsburgh, Pa. Valve lubricating greases. Serial No. 587,088, Dec. 12. Class 15.
Roneo Limited, London, England. Duplicating machines and their parts, duplicating apparatus, etc. Serial No. 590,285, Dec. 12. Class 23.
Roosevelt Mills, Incorporated, Manchester, Conn. Sweaters. Serial No. 576,424, Dec. 12. Class 39.
Rose, Jay, New York, N. Y. Electric clocks. Serial No. 558,511, Dec. 12. Class 27.
Rose, Mike, Nashville, Tenn. Roquefort cheese dressing. Serial No. 589,335, Dec. 12. Class 46.
Sauerman Bros., Inc., Chicago, Ill. Power drag scrapers. Serial No. 527,156, Dec. 12. Class 23.
Scott, O. M., & Sons Company, Marysville, Ohio. Chemical weed killer. Serial No. 590,711, Dec. 12. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Refrigerator and freezer repairing services. Serial No. 573,204, Dec. 12. Class 103.
Sears, Roebuck and Co., Chicago, Ill. Radio and phonograph repairing services. Serial No. 573,207, Dec. 12. Class 103.
Sears, Roebuck and Co., Chicago, Ill. Tractor tires. Serial No. 581,361, Dec. 12. Class 35.
Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Plumbing fittings or parts and associated supplies. Serial No. 505,251, Dec. 12. Class 13.
Shane, C. B., Corporation, Chicago, Ill. Removable linings for men's, young men's, women's, misses', and juniors' overcoats. Serial No. 587,977, Dec. 12. Class 39.
Shapiro, Ellas, doing business as Alma Industries, Philadelphia, assignor to K-D Manufacturing Company, Lancaster, Pa. Hook. Serial No. 560,841, Dec. 12. Class 13.
Sleetex Company, Inc., The, New York, N. Y. Windshield wiper blades and adapters. Serial No. 588,110, Dec. 12. Class 19.
Smith, Edward, & Co., Inc., New York, N. Y. Soft white paste. Serial No. 549,020, Dec. 12. Class 16.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. Serial No. 593,604, Dec. 12. Class 18.
Societe Lancôme, S. A., Paris, France. Face powder, lipstick, rouge, etc. Serial No. 577,003, Dec. 12. Class 51.
Societe Lancôme, S. A., Paris, France. Face powder, lipstick, rouge, etc. Serial No. 577,005, Dec. 12. Class 51.
Standard Insulation Company, East Rutherford, N. J. Insulating tapes, varnished cloth, papers, etc. Serial No. 584,164, Dec. 12. Class 21.
Standard Motor Products, Inc., Long Island City, N. Y. Replacement and repair parts, and servicing kits and tools. Serial No. 593,754, Dec. 12. Class 23.
Standard Rivet Company, The, South Boston, Mass. Staples, rivets and spots. Serial No. 518,919, Dec. 12. Class 13.
Stiebel, Theodor, Holzminden, Weser, Germany. Electric space heaters; electric immersion heaters; etc. Serial No. 580,527, Dec. 12. Class 21.
Stockhausen, Frederick, doing business under the name and style of U-Mak-It Products, New York, N. Y. Knock-down parts for rowboats, kayaks, run abouts, dingeys, etc. Serial No. 595,013, Dec. 12. Class 19.
Stokes, F. J., Machine Company, Philadelphia, Pa. Desiccating apparatus. Serial Nos. 558,256–7, Dec. 12. Class 23.
Stone, E. C. Company, Denver, Colo. 2: 4-D weed killer. Serial No. 583,778, Dec. 12. Class 6.
Superior Metal Products Company, Philadelphia, Pa., and St. Paul, Minn. Milk cans, dairy pails and ice cream cans. Serial No. 567,357, Dec. 12. Class 2.
Textile Mills Company, Chicago, Ill. Ironing board pads and ironing board covers. Serial No. 573,994, Dec. 12. Class 24.
Thompson, O. E., & Sons, Ypsilanti, Mich. Grass and grain seeders, distributors, broadcasters and spreaders, etc. Serial No. 539,105, Dec. 12. Class 23.
Tonak, Tovarny na Klobouky, Narodni Podnik, Novy Jicin, Czechoslovakia. Hats and hat bodies. Serial No. 589,127, Dec. 12. Class 39.
Tropicmode Furniture Co.: *See*—
Ritts, Herbert, Inc.
Tufts, William F., doing business as Research Industries, Atlanta, Ga. Slip resistant pants guard made of paper. Serial No. 590,113, Dec. 12. Class 37.
Turkin, Nathan H., doing business under the name of Kenron Steel Products, Chicago, Ill. Motor driven water pumps. Serial No. 594,504, Dec. 12. Class 23.
Twining, Homer L., doing business as Acme Sawdust Company, San Antonio, Tex. Chemical preparation. Serial No. 585,875, Dec. 12. Class 6.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
U-Mak-It Products: *See*—
Stockhausen, Frederick.
U. S. Industrial Chemicals, Inc., New York, N. Y. Alkyd synthetic resin vehicle used in the manufacture of flat wall paints. Serial No. 587,216, Dec. 12. Class 16.
United States Industries: *See*—
Oren, Bernard S.
U. S. Slicing Machine Company, Inc., La Porte, Ind. Meat tendering and slicing machines and parts thereof and therefor. Serial No. 562,105, Dec. 12. Class 23.
United States Rubber Company, New York, N. Y. Hose. Serial No. 579,953, Dec. 12. Class 35.
Universal Utility Co., Gloversville, N. Y. Aluminum foil sheets. Serial No. 581,104, Dec. 12. Class 14.
Verdolyack, A. G., Inc., Minneapolis, Minn. Paper sheeting. Serial No. 589,749, Dec. 12. Class 37.
Visking Corporation, The, Chicago, Ill. Thin film made of plastic. Serial No. 590,471, Dec. 12. Class 37.
Vue Matic Company, Providence, R. I. Bookkeeping and payroll forms. Serial No. 589,818, Dec. 12. Class 37.
W. B. Foundations, Incorporated, Newark, N. J. Corsets, brassières, corset-covers and girdles. Serial No. 595,740, Dec. 12. Class 39.
Wade, R. M., & Co., Portland, Oreg. Equipment for irrigation systems. Serial No. 534,574, Dec. 12. Class 13.
Wahl, Dan, New York, N. Y. Bow ties, straight ties, dress shirts, etc. Serial No. 569,785, Dec. 12. Class 39.
Walter Candy Co.: *See*—
Walter, Paul.
Walter, Paul, trading as Caramel Crisp Shop and Walter Candy Co., Cedar Rapids, Iowa. Nut candies. Serial No. 547,881, Dec. 12. Class 46.
Warren Axe and Tool Company, Warren, Pa. Axes. Serial Nos. 547,206–7, Dec. 12. Class 23.
Wayne Knitting Mills, Fort Wayne, Ind. Periodical publication. Serial No. 591,971, Dec. 12. Class 38.
Welch, Margetson & Co. Ltd., London, England. Men's, women's, boys' and girls' wearing apparel. Serial No. 496,117, Dec. 12. Class 39.
Wincharger Corporation, Sioux City, Iowa. Wind-driven power apparatus and parts thereof, etc. Serial No. 574,174, Dec. 12. Class 21.
Wolverine Fabricating & Mfg. Co., Inc., Inkster, Mich. Sheet packing and gasket material. Serial No. 579,246, Dec. 12. Class 35.
Wood, Gar, Industries, Inc., Wayne, Mich. Truck and trailer bodies. Serial No. 535,948, Dec. 12. Class 19.
Woods Manufacturing Company Limited, Montreal, Quebec, Canada, and Ogdensburg, N. Y. Sleeping robes and hunting and sporting jackets for men. Serial No. 573,282, Dec. 12. Class 39.
Wullschleger & Co., New York, N. Y. Fabrics in the piece. Serial No. 528,392, Dec. 12. Class 42.
Young's Merchandising Corporation, New York, N. Y. Genuine fur felt hats. Serial No. 545,321, Dec. 12. Class 39.
Zef Innovations, Inc., New York, N. Y. Brassières. Serial No. 591,212, Dec. 12. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Admiral Corporation, Chicago, Ill. Combination radio, television receiver and phonographs. 534,746, Dec. 12; Serial No. 586,261, published Sept. 5, 1950. Class 21.

Aerovox Corporation, New Bedford, Mass. Condensers or capacitors. 534,755, Dec. 12; Serial No. 587,300, published Sept. 5, 1950. Class 21.

Aerovox Corporation, New Bedford, Mass. Capacitors or condensers. 534,756, Dec. 12; Serial No. 587,307, published Sept. 5, 1950. Class 21.

Aerovox Corporation, New Bedford, Mass. Electrolytic condensers or capacitors. 534,757, Dec. 12; Serial No. 587,308, published Sept. 19, 1950. Class 21.

Agicide Laboratories, Inc., Los Angeles, Calif., now by change of name Agrashell Inc. Synthetic resin compositions and synthetic resin composition extenders. 530,556, Sept. 12, 1950. Corrected, O. G. Dec. 12. Class 6.

Agrashell, Inc.: *See*—
Agicide Laboratories, Inc.

Ahrens Publishing Company, Inc., New York, N. Y. Periodical. 534,567, Dec. 12; Serial No. 551,422, published July 18, 1950. Class 38.

Aktiebolaget C. G. Nyström & Co., Hagalund, Sweden. Chocolate candies. 534,597, Dec. 12; Serial No. 561,064, published July 18, 1950. Class 46.

Altec Service Corporation, New York, N. Y. Microphones and equipment therefor. 534,754, Dec. 12; Serial No. 587,167, published Sept. 5, 1950. Class 21.

Alturas Packing Co., Inc., Connersville and Bartow, Fla. Fresh citrus fruits. 534,711, Dec. 12; Serial No. 582,204, published July 25, 1950. Class 46.

American Beverage Corporation, Brooklyn, N. Y. Carbonated beverages. 513,373, Aug. 9, 1949. Amended, O. G. Dec. 12. Class 45.

American Brassiere Co., Inc., New York, N. Y. Brassières, bandeaux, girdles, etc. 534,655, Dec. 12; Serial No. 573,462, published Sept. 12, 1950. Class 39.

American Chicle Company, Long Island City, N. Y. Chewing gum. 376,475, Mar. 26, 1940. Republished Dec. 12. Class 46.

American Cyanamid Company, New York, N. Y. Resinous plastic materials. 534,600, Dec. 12; Serial No. 562,016, published Sept. 5, 1950. Class 16.

American Lady Corset Co., Detroit, Mich. Girdles, pantie girdles, combination girdles and brassières, etc. 534,666, Dec. 12; Serial No. 576,187, published Sept. 12, 1950. Class 39.

American Laundry Machinery Company, The, Cincinnati, Ohio. Laundry machinery. 534,703, Dec. 12; Serial No. 581,635, published Aug. 29, 1950. Class 24.

American Laundry Machinery Company, The, Cincinnati, Ohio. Flatwork ironing machines. 534,706, Dec. 12; Serial No. 581,925, published Aug. 29, 1950. Class 24.

American Products Co., The, New York, N. Y. Tripods, projector and camera stands, camera handles, etc. 534,839, Dec. 12; Serial No. 589,368. Class 26.

American Textile Company, Inc., Pawtucket, R. I. Lace piece goods. 534,627, Dec. 12; Serial No. 567,481, published Sept. 5, 1950. Class 42.

American Tobacco Company, The, New York, N. Y. Smoking tobacco. 534,570, Dec. 12; Serial No. 553,061, published June 21, 1949. Class 17.

American Tobacco Company, The, New York, N. Y. Smoking tobacco. 534,645, Dec. 12; Serial No. 571,945, published Sept. 19, 1950. Class 17.

American Tobacco Company, The, New York, N. Y. Plug (chewing) tobacco. 534,792, Dec. 12; Serial No. 592,466, published Sept. 19, 1950. Class 17.

American Tobacco Company, The, New York, N. Y. Plug (chewing) tobacco. 534,795, Dec. 12; Serial No. 592,746, published Sept. 19, 1950. Class 17.

Ampro Corporation, Chicago, Ill. Cameras, motion-picture cameras, motion-picture projectors, etc. 274,782, renewed Sept. 9, 1950. O. G. Dec. 12. Class 26.

Anaconda Wire and Cable Company, New York, N. Y. Electrical wires and cables. 534,782, Dec. 12; Serial No. 590,213, published Sept. 5, 1950. Class 21.

Anthracite Committee of the Department of Commerce, Commonwealth of Pennsylvania, Harrisburg, Pa. Anthracite coal. 534,807, Dec. 12; Serial No. 553,333, published Aug. 29, 1950. Class 1.

Archer-Daniels-Midland Company: *See*—
Wyandotte Oil & Fat Company, The

Arco Company, The, Cleveland, Ohio. Waterproof structural and exterior paint. 534,673, Dec. 12; Serial No. 577,923, published Sept. 12, 1950. Class 16.

Armand Company, The, Des Moines, Iowa. Cleansing cream and cold cream. 275,362, renewed Sept. 23, 1950. O. G. Dec. 12. Class 51.

Armand Company, The, Des Moines, Iowa. Cleansing cream, cold cream, and toilet powder. 275,363, renewed Sept. 23, 1950. O. G. Dec. 12. Class 51.

Armstrong Siddeley Motors Limited, Coventry, England. Aeroplane engines and parts thereof. 534,695, Dec. 12; Serial No. 580,220, published Aug. 22, 1950. Class 23.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 534,778, Dec. 12; Serial No. 589,191, published Sept. 19, 1950. Class 19.

Arnolt Corporation, Warsaw, Ind. Chromium plated metal furniture frames, etc. 534,609, Dec. 12; Serial No. 563,841, published Sept. 12, 1950. Class 32.

Art Wire & Stamping Co., Newark, N. J. Deep sea rig for bottom fishing. 534,832, Dec. 12; Serial No. 584,888. Class 22.

Atwood Coffee Co.: *See*—
Atwood Coffee Company.

Atwood Coffee Company, doing business as Atwood Coffee Co., Minneapolis, Minn. Coffee. 534,557, Dec. 12; Serial No. 546,457, published July 25, 1950. Class 46.

Austin Tool Works: *See*—
Overton, Carl E.

Badger Machine Company, Winona, Minn. Vehicles, namely trench excavators and snow plows. 534,644, Dec. 12; Serial No. 571,930, published Sept. 12, 1950. Class 23.

Barbizon Corporation, New York, N. Y. Ladies' nightgowns, chemises, and slips. 534,682, Dec. 12; Serial No. 578,561, published Sept. 12, 1950. Class 39.

Barbour Bros. Co., The, to The Linen Thread Co., Inc., Paterson, N. J. Linen thread. 80,824, re-renewed Feb. 7, 1951. O. G. Dec. 12. Class 43.

Bell Bakeries, Inc., New York, N. Y. Bread, rolls, cake, etc. 534,615, Dec. 12; Serial No. 565,409, published July 18, 1950. Class 46.

Benamy, Avivah, Brooklyn, N. Y. Baby bath towels. 534,622, Dec. 12; Serial No. 566,689, published Sept. 5, 1950. Class 42.

Bernard Sportswear, Inc., Boston, Mass. Ladies' blouses, jackets, skirts, etc. 534,814, Dec. 12; Serial No. 522,855. Class 39.

Best & Co. Inc., New York, N. Y. Misses', junior misses', and children's top coats, overcoats, outer-skirts, etc. 534,721, Dec. 12; Serial No. 583,318, published Aug. 1, 1950. Class 39.

Bewley Mills, Fort Worth, Tex. Wheat flour. 444,167, Aug. 22, 1950. Republished Dec. 12. Class 46.

Bianchi Co., The, New York, N. Y. Candy. 534,558, Dec. 12; Serial No. 546,460, published July 25, 1950. Class 46.

Biegel, John R., Inglewood, Calif. Cigars. 534,767, Dec. 12; Serial No. 587,706, published Sept. 19, 1950. Class 17.

Biola Packing Co.: *See*—
Scheidt, Chris H.

Black & Decker Manufacturing Company, The, Towson, Md. Portable boring-drills, attachments for same and parts thereof; etc. 276,149, Oct. 7, 1930. Republished Dec. 12. Class 23.

Blackwell, Elizabeth, independent executrix of the estate of H. J. Blackwell, deceased, doing business as the World's Messenger Publishing Company, Forth Worth, Tex. Magazine. 534,815, Dec. 12; Serial No. 524,855. Class 38.

Blackwell, H. J.: *See*—
Blackwell, Elizabeth, executrix.

Bonnen Manufacturing Corporation, Los Angeles, Calif. Wind, draft, and weather deflectors for automotive vehicles. 534,781, Dec. 12; Serial No. 589,952, published Sept. 12, 1950. Class 19.

Brandlon, A. A., Janson, doing business as North Shore Clinical Laboratory, Evanston, Ill. Medical clinical laboratory testing. 534,800, Dec. 12; Serial No. 537,133, published Sept. 19, 1950. Class 100.

Brandt Cabinet Works, Inc., The, Hagerstown, Md. Extension tables. 534,529, Dec. 12; Serial No. 522,834, published Aug. 15, 1950. Class 32.

Braniff Airways, Incorporated, Dallas, Tex. Airplane transportation and shipping of passengers, property and mail. 534,799, Dec. 12; Serial No. 511,593, published Sept. 19, 1950. Class 105.

Bridgeport Metal Goods Manufacturing Company, The, Bridgeport, Conn. Flashlights. 534,762, Dec. 12; Serial No. 587,530, published Sept. 5, 1950. Class 21.

Bridgeport Metal Goods Manufacturing Company, The, Bridgeport, Conn. Flashlights. 534,771, Dec. 12; Serial No. 588,256, published Sept. 19, 1950. Class 21.

Brunk, Leslie L., trading under the name of Renberles Products, Detroit, Mich. Plate assembly. 534,768, Dec. 12; Serial No. 588,001, published Sept. 19, 1950. Class 21.

Budrell Packers, Inc., Everett, Mass. Canned minestrone soup. 534,700, Dec. 12; Serial No. 581,247, published July 25, 1950. Class 46.

Budrell Packers, Inc., Everett, Mass. Canned minestrone soup. 534,708, Dec. 12; Serial No. 582,021, published July 25, 1950. Class 46.

Burden Company, The, Cleveland, Ohio. Sugar, corn, cane and maple base syrup. 444,357, Dec. 12; Serial No. 513,803, published July 25, 1950. Class 46.

California Co-Operative Canneries, San Francisco, by Frank M. Wilson Company, Stockton, Calif. Canned fruits and vegetables. 189,714, Sept. 23, 1924. Republished Dec. 12. Class 46.

California Medicinal Wine Co.: *See*—
Val Bros.

Campari, Davide, to Davide Campari-Milano, Milan, Italy. Alcoholic cordial. 276,979, renewed Nov. 4, 1950. O. G. Dec. 12. Class 49.

Campari-Milano, Davide: *See*—
Campari, Davide.

Campbell Coal Company, Atlanta, Ga. Coal. 274,862, renewed Sept. 9, 1950. O. G. Dec. 12. Class 1.

Capehart-Farnsworth Corporation, Fort Wayne, Ind. Television built-in antennae. 534,770, Dec. 12; Serial No. 588,078, published Sept. 19, 1950. Class 21.

Carlisle Corporation: *See*—
Pharis Tire and Rubber Company, The.

Carter Carburetor Corporation, St. Louis, Mo. Automotive accessories and parts. 534,520, Dec. 12; Serial No. 491,626, published Sept. 12, 1950. Class 23.

Cellowax Co., The: *See*—
Cellowax Company, The.

Cellowax Company, The, also trading under the name of The Cellowax Co., Baltimore, Md. Cleaning and polishing composition. 444,360, Dec. 12; Serial No. 524,950, published Sept. 12, 1950. Class 4.

Celtic Record Company, Inc., New York, N. Y. Regular grooved phonograph records. 534,732, Dec. 12; Serial No. 584,610, published Sept. 19, 1950. Class 36.

Central Paint & Varnish Works, Inc., Brooklyn, N. Y. Paints, varnishes, etc. 534,630, Dec. 12; Serial No. 568,295, published Sept. 5, 1950. Class 16.

Central Service Sales Company, Kokomo, Ind. Crimping plier, wrenches, hooks, and spanners. 534,496, Dec. 12; Serial No. 560,968, published Aug. 29, 1950. Class 23.

Cifuentes y Compañía, Habana, Cuba. Cigars. 534,709, Dec. 12; Serial No. 582,025, published Sept. 12, 1950. Class 17.

Cincinnati Mine Machinery Co., The, Cincinnati, Ohio. Cutter chain, cutter chain sprockets, cutter-head shoes, etc. 534,779, Dec. 12; Serial No. 589,833, published Sept. 19, 1950. Class 23.

Circle-Y Tool Co.: *See*—
Johnson, Berd L.

Clary Multiplier Corporation, San Gabriel, Calif. Electrical connector cords. 534,843, Dec. 12; Serial No. 593,786. Class 21.

Clayton Manufacturing Company, The, Bristol, Conn. Scissors and shears. 534,554, Dec. 12; Serial No. 544,702, published Sept. 5, 1950. Class 23.

Clover Farm Stores Corporation, Cleveland, Ohio. Canned foods. 534,624, Dec. 12; Serial No. 567,388, published July 25, 1950. Class 46.

Cohn & Rosenberger, Inc., New York, N. Y., to Coro, Inc., Providence, R. I., and New York, N. Y. Finger rings, necklaces, bracelets, etc. 268,553, renewed Mar. 18, 1950. O. G. Dec. 12. Class 28.

Columbia Auto Seat Cover Co., Inc., Los Angeles, Calif. All purpose seat cushions. 534,723, Dec. 12; Serial No. 583,863, published Aug. 29, 1950. Class 32.

Columbia Records Inc., Bridgeport, Conn. Mechanically grooved phonograph records and phonograph records in albums. 534,575, Dec. 12; Serial No. 554,008, published Aug. 22, 1950. Class 36.

Concord Products Corporation, Chicago, Ill. Smokers' stands. 534,613, Dec. 12; Serial No. 564,936, published Aug. 29, 1950. Class 32.

Cone Export and Commission Co., Inc., New York, N. Y. Textile fabrics in the piece. 534,794, Dec. 12; Serial No. 592,700, published Sept. 5, 1950. Class 42.

Continental Aviation and Engineering Corporation, Detroit and Muskegon, Mich. Internal combustion engines and parts therefor; propeller blade adjusting mechanisms, etc. 444,353, Dec. 12; Serial No. 499,397, published Sept. 19, 1950. Class 23.

Continental Motors Corporation, Detroit and Muskegon, Mich. Internal combustion engines; mechanical power plants; mechanical drive units; etc. 534,579, Dec. 12; Serial No. 555,734, published Sept. 12, 1950. Class 23.

Coro, Inc.: *See*—
Cohn & Rosenberger, Inc.

Cotter & Company, Chicago, Ill. Ready-mixed paint; varnish, paint enamels, etc. 534,665, Dec. 12; Serial No. 575,892, published Sept. 12, 1950. Class 16.

Creamette Company, The, Minneapolis, Minn. Macaroni and spaghetti. 534,553, Dec. 12; Serial No. 543,900, published May 30, 1950. Class 46.

Cushing Company, The, Hastings, Nebr. Foods. 534,562–3, Dec. 12; Serial Nos. 550,793–4, published July 25, 1950. Class 46.

Cutter, Incorporated, Boston, Mass. Paper roll holders. 534,697, Dec. 12; Serial No. 580,289, published Sept. 12, 1950. Class 23.

D W G Cigar Corporation, Detroit, Mich. Cigars. 534,649, Dec. 12; Serial No. 573,081, published Sept. 19, 1950. Class 17.

Daman, Arthur C., Denver, Colo. Playing cards. 534,604–5, Dec. 12; Serial Nos. 562,912–13, published Sept. 5, 1950. Class 22.

Daman, Arthur C., Denver, Colo. Playing cards. 534,606–7, Dec. 12; Serial Nos. 562,915–16, published Sept. 5, 1950. Class 22.

D'Aprile, V. A., & Co.: *See*—
D'Aprile, Vito A.

D'Aprile, Vito A., doing business under the name and style of V. A. D'Aprile & Co., Hartford, Conn. Olive oil. 534,739, Dec. 12; Serial No. 585,746, published July 25, 1950. Class 46.

Darowish, William J., New York, N. Y. Inflatable rubber togs and balloons. 534,582, Dec. 12; Serial No. 556,624, published Sept. 5, 1950. Class 22.

Davidoff, Max, doing business under the name of Gilmar Manufacturing Company, New York, N. Y. Blanket covers, comforter covers, mattress covers, etc. 534,658, Dec. 12; Serial No. 574,216, published Sept. 5, 1950. Class 42.

Davis-Cleaver Produce Company, Quincy, Ill. Frozen and shell eggs; frozen and fresh dressed poultry, etc. 534,602, Dec. 12; Serial No. 562,331, published July 18, 1950. Class 46.

Debs Hospital Supplies, Inc., Chicago, Ill. Hospital carts. 534,729, Dec. 12; Serial No. 584,224, published Sept. 5, 1950. Class 19.

Deering Milliken & Co., Inc., New York, N. Y. Fabrics in the piece. 534,789–90, Dec. 12; Serial Nos. 592,258–9, published Sept. 5, 1950. Class 42.

Delicia Chocolate & Candy Mfg. Co. Inc., New York, N. Y. Filled wafer bars. 534,599, Dec. 12; Serial No. 561,299, published July 25, 1950. Class 46.

Delta Omicron, Cincinnati, Ohio, to Delta Omicron National Professional Music Fraternity, Cuyahoga Falls, Ohio. Pledge pins, badges, and pendants. 277,813, renewed Nov. 25, 1950. O. G. Dec. 12. Class 28.

Delta Omicron National Professional Music Fraternity: *See*—
Delta Omicron.

Desert Citrus Growers Association, Phoenix, Ariz. Fresh grapefruit. 534,559, Dec. 12; Serial No. 547,433, published July 25, 1950. Class 46.

Devoe & Raynolds Company, Inc., New York, N. Y. Resins and solutions of resin. 534,577, Dec. 12; Serial No. 553,061, published Aug. 8, 1950. Class 16.

Dewey and Almy Chemical Company, Cambridge, Mass. Surface coating compositions. 534,685, Dec. 12; Serial No. 579,083, published Sept. 12, 1950. Class 16.

Dictaphone Corporation, Bridgeport, Conn. Sound records for dictating machines. 534,598, Dec. 12; Serial No. 561,097, published Aug. 22, 1950. Class 36.

Dictaphone Corporation, Bridgeport, Conn. Electrically operated sound recording and reproducing machines. 534,650–3, Dec. 12; Serial Nos. 573,362–5, published Sept. 12, 1950. Class 21.

Dixie Cup Company: *See*—
Vortex Mfg. Co., The.

Donovan Enterprises, Incorporated, Saugatuck, Conn. Children's pants. 534,763, Dec. 12; Serial No. 587,629, published Sept. 12, 1950. Class 39.

Dorgin Textile Corporation, New York, N. Y. Fabrics in the piece. 534,797, Dec. 12; Serial No. 592,885, published Sept. 5, 1950. Class 42.

Dorr Company, The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids. 534,552, Dec. 12; Serial No. 542,740, published Sept. 19, 1950. Class 23.

Duke Manufacturing Co., St. Louis, Mo., 534,532, Dec. 12. Cereal cookers, coffee urns, etc., Serial No. 561,660, published Aug. 15, 1950. Class 13; Electrically operated apparatus, Serial No. 527,169, published Mar. 7, 1950, Class 21; Pastry counters, bakers' tables, setup tables, Serial No. 527,170, published Apr. 20, 1948, Class 32; Steam tables, Serial No. 560,258, published Mar. 7, 1950, Class 34. (Consolidated certificate, Classes 13, 21, 32 and 34.)

Dunhill, Alfred, Limited, London, England. Tobacco pouches. 534,705, Dec. 12; Serial No. 581,712, published Aug. 29, 1950. Class 8.

Dutcher, Edwin B., Sheffield, Mass. Cake. 534,643, Dec. 12; Serial No. 571,635, published July 25, 1950. Class 46.

Eagle Pencil Company, by Eagle Pencil Company, New York, N. Y. Lead pencils. 70,598, Sept. 15, 1908. Republished Dec. 12. Class 37.

Eagle Pencil Company, by Eagle Pencil Company, New York, N. Y. Lead pencils. 78,317, June 7, 1910. Republished Dec. 12. Class 37.

Economy Furniture Upholstery: *See*—
Smith, Milton T.

Eder-Baillie Corporation, South Bend, Ind. Fishing poles and parts therefor. 534,610–11, Dec. 12; Serial No. 564,440–1, published Sept. 5, 1950. Class 22.

Egyptian Lacquer Manufacturing Company, The, South Kearney and Newark, N. J. Synthetic resin base finishes and associated finishing materials. 534,661, Dec. 12; Serial No. 575,130, published Sept. 12, 1950. Class 16.

Elco Tool and Screw Corporation, Rockford, Ill. Catalogs and circulars. 531,135, Sept. 26, 1950. Corrected, O. G. Dec. 12. Class 38.

Emanuel, Jay, Publications, Inc., Philadelphia, Pa. Section of publication. 534,830, Dec. 12; Serial No. 584,226. Class 38.

Evans, Glen L., Inc., Caldwell, Idaho. Fish hooks. 534,561, Dec. 12; Serial No. 550,222, published Sept. 5, 1950. Class 22.

Fairfax Bread Company: *See*—
Safeway Stores, Incorporated.

Fargo Battery & Mfg. Co., Fargo, N. D. Storage batteries. 534,837, Dec. 12; Serial No. 588,792. Class 21.

Federal-Mogul Corporation, Detroit, Mich. Bearing bushings. 534,640, Dec. 12; Serial No. 571,128, published Aug. 22, 1950. Class 23.

Fernando Canning Company, Inc., San Fernando, Calif. Canned fruits and vegetables. 534,621, Dec. 12; Serial No. 566,222, published July 18, 1950. Class 46.

Flimite Oil Corporation, Butler, Wis. Lubricating oils, lubricating greases, film strength oiliness additive oils, etc. 443,790, Feb. 28, 1950. Republished Dec. 12. Class 15.

Firmenich & Co.: *See*—
Societe Anonyme M. Naef & Cie.

Fobes, Hayward & Company, Incorporated, Boston, to New England Confectionery Company, Cambridge, Mass. Confectionery. 35,212, re-renewed Oct. 9, 1950. O. G. Dec. 12. Class 46.

Frieder, B. & Sons Company, The, Cincinnati, Ohio, and Philadelphia, Pa. Cigars and cheroots. 534,635, Dec. 12; Serial No. 569,514, published Sept. 19, 1950. Class 17.

Frieder B. & Sons Company, The, Cincinnati, Ohio, and Philadelphia, Pa. Cigars and cheroots. 534,636, Dec. 12; Serial No. 569,516, published Sept. 19, 1950. Class 17.

Frieder, B. & Sons Company, The, Cincinnati, Ohio, and Philadelphia, Pa. Cigars and cheroots. 534,656, Dec. 12; Serial No. 573,938, published Sept. 19, 1950. Class 17.

Friedlen, Madeline A.: *See*—
Friedlen, Meyer L.

Friedlen, Meyer L., to M. A. Friedlen, doing business as Mountain Home Smart Apparel, Chicago, Ill. Knitted sweaters, bathing suits, etc. 276,801, renewed Oct. 28, 1950. O. G. Dec. 12. Class 39.

Frost Paint & Oil Corporation, Minneapolis, Minn. House paint, shingle stain, log cabin paint, etc. 534,583, Dec. 12; Serial No. 556,628, published Sept. 5, 1950. Class 16.

Fuller, D. B. & Co., Inc., New York, N. Y. Textile fabrics in the piece. 534,686, Dec. 12; Serial No. 579,094, published Sept. 5, 1950. Class 42.

Fuller, D. B. & Co., Inc., New York, N. Y. Textile fabrics in the piece. 534,835, Dec. 12; Serial No. 588,086, Class 42.

Fulton Manufacturing Corporation, Wauseon, Ohio. Electric flashlight batteries and flashlights. 534,525, Dec. 12; Serial No. 514,895, published Sept. 5, 1950. Class 21.

Gadgets, Inc., Dayton, Ohio. Television antenna. 534,784, Dec. 12; Serial No. 590,266, published Sept. 5, 1950. Class 21.

Gargiulo & Amendola, Inc., New York, N. Y. Fresh tomatoes. 534,710, Dec. 12; Serial No. 582,041, published July 25, 1950. Class 46.

Garod Electronics Corporation, Brooklyn, N. Y. Television receiving sets and combination television and radio receiving sets and phonographs. 534,760, Dec. 12; Serial No. 587,473, published Sept. 5, 1950. Class 21.

Geller, Andrew, Inc., Brooklyn, N. Y. Ladies' and misses' shoes. 534,840, Dec. 12; Serial No. 590,502, Class 39.

General Electric Company, Schenectady, N. Y. Generators, selsyn units and frequency converters. 534,725, Dec. 12; Serial No. 583,976, published Sept. 19, 1950. Class 21.

General Floorcraft, Inc., New York, N. Y. Electric floor cleaning, polishing and finishing machines. 534,813, Dec. 12; Serial No. 521,729. Class 21.

Gentry, C. B., Chili Powder Co.: *See*—
Gentry, C. B., Mrs.

Gentry, C. B., Mrs., doing business as C. B. Gentry Chili Powder Co., to Gentry, Incorporated, Los Angeles, Calif. Pimento flakes. 263,626, renewed Nov. 5, 1940. O. G. Dec. 12. Class 46.

Gentry, Incorporated: *See*—
Gentry, C. B., Mrs.

Georgia Iron Works Co., Augusta, Ga. Hydraulic pumps. 534,560, Dec. 12; Serial No. 549,437, published Aug. 15, 1950. Class 23.

Gilbert of California, Los Angeles, Calif. Men's and women's clothing. 534,820, Dec. 12; Serial No. 572,400. Class 39.

Gillette Safety Razor Company: *See*—
Toni Company, The.

Gilmar Manufacturing Company: *See*—
Davidoff, Max.

Girl Scouts, by Girl Scouts of the United States of America, New York, N. Y. Whistles. 215,321, July 13, 1926. Republished Dec. 12. Class 36.

Girl Scouts, by Girl Scouts of the United States of America, New York, N. Y. Badges of nonprecious metals; uniforms makeup sets; etc. 215,581, July 20, 1926. Republished Dec. 12. Class 50.

Girl Scouts, by Girl Scouts of the United States of America, New York, N. Y. Pins. 215,905, July 27, 1926. Republished Dec. 12. Class 28.

Girl Scouts of the United States of America: *See*—
Girl Scouts.

Girozan, Mary, Cleveland, Ohio. Toilet lid cover. 534,687, Dec. 12; Serial No. 579,098, published Sept. 5, 1950. Class 42.

Golden Dawn Hosiery Shops, Inc., Philadelphia, Pa. Men's women's, children's hosiery and underwear. 271,381, June 3, 1930. Republished Dec. 12. Class 39.

Golding Bros. Company, Inc., New York, N. Y. Textile goods in the piece. 534,586, Dec. 12; Serial No. 557,275, published Dec. 6, 1949. Class 42.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio, 534,659, Dec. 12. Rubber and/or resinous plastic material, Serial No. 574,906, published Apr. 25, 1950, Class 1; Gloves, Serial No. 552,857, published May 23, 1950, Class 39; Woven and/or knitted fabrics, Serial No. 574,907, published May 23, 1950, Class 42. (Consolidated certificate, Classes 1, 39, and 42.)

Goodyear Rubber Company, to Goodyear Rubber Company, San Francisco, Calif. Rubber belting and hose. 270,388, renewed May 6, 1950. O. G. Dec. 12. Class 35.

Great Bear Spring Company, New York, N. Y. Ice cooled or electrically operated water coolers. 310,331, Feb. 20, 1934. Amended. Dec. 12, 1950. Class 31.

Green Giant Company: *See*—
Minnesota Valley Canning Company.

Grosvenor, C. A., Shoe Co., Inc., Worcester, Mass. House slippers. 534,749, Dec. 12; Serial No. 586,411, published Aug. 22, 1950. Class 39.

Hainke, Paul, Mfg. Co., The: *See*—
Hainke, Paul W.

Hainke, Paul, Mower Corporation, Inc., The, assignee: *See*—
Hainke, Paul W.

Hainke, Paul W., doing business as The Paul Hainke Mfg. Co., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans. Lawn mowers. 534,817, Dec. 12; Serial No. 547,447. Class 23.

Haire Publishing Company, New York, N. Y. Periodical. 534,831, Dec. 12; Serial No. 584,812. Class 38.

Hall, Claude, Jr., Glenwood Springs, Colo. Neckties. 534,924, Dec. 12; Serial No. 576,056. Class 39.

Hamilton Glass Company, Inc., Chicago, Ill. Hand mirrors, wall mirrors, and mirrors used in connection with furniture. 534,701, Dec. 12; Serial No. 581,420, published Sept. 5, 1950. Class 32.

Hamilton Watch Company, Lancaster, Pa. Watches and hairsprings. 275,239, renewed Sept. 16, 1950. O. G. Dec. 12. Class 27.

Hamilton Watch Company, Lancaster, Pa. Watches. 275,240, renewed Sept. 16, 1950. O. G. Dec. 12. Class 27.

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Men's and boys' underwear. 534,614, Dec. 12; Serial No. 564,942, published Sept. 12, 1950. Class 39.

Hanson, Howard, & Co., South Beloit, Ill. Power operated sprayers. 534,702, Dec. 12; Serial No. 581,476, published Sept. 5, 1950. Class 23.

Hartsuch: *See*—
Hartsuch, Earl R.

Hartsuch, Earl R., doing business as Hartsuch, to L. E. Hartsuch, Chicago, Ill. Salad dressing. 272,109, renewed July 1, 1950. O. G. Dec. 12. Class 46.

Hartsuch, Lillian E.: *See*—
Hartsuch, Earl R.

Heller Company, The, Cleveland, Ohio. Stapling machines. 534,569, Dec. 12; Serial No. 552,774, published Aug. 29, 1950. Class 23.

Helme, George W., Company, New York, N. Y. Snuff. 534,601, Dec. 12; Serial No. 562,055, published Sept. 19, 1950. Class 17.

Hendel, Julius, doing business as Hendel Manufacturing Company (not incorporated), New London, Conn. Athletic running pants for men. 272,405, renewed July 8, 1950. O. G. Dec. 12. Class 39.

Hendel Manufacturing Company (not incorporated): *See*—
Hendel, Julius.

Heywood-Wakefield Company, Gardner, Mass. Upholstered chairs for transportation seating. 534,534, Dec. 12; Serial No. 528,282, published Aug. 29, 1950. Class 19.

Hi-Line Company, Inc., New York, N. Y. Children's outer pants. 534,758, Dec. 12; Serial No. 587,330, published Sept. 19, 1950. Class 39.

Hines, Lois D., New York, N. Y. Device in the nature of a table top. 534,589, Dec. 12; Serial No. 558,720, published Sept. 12, 1950. Class 32.

Hix, Elsie: *See*—
Hix, John.

Hix, John, Washington, D. C., to Elsie Hix, Los Angeles, Calif. Cartoons and statistical articles. 275,704, renewed Sept. 30, 1950. O. G. Dec. 12. Class 38.

Hoague-Sprague Corporation, Lynn, Mass. Paper box forming machines. 534,759, Dec. 12; Serial No. 587,385, published Sept. 5, 1950. Class 23.

Hochberg, Albert, doing business as Albert Hochberg Co., New York, N. Y. Women's dresses. 534,722, Dec. 12; Serial No. 583,757, published Sept. 12, 1950. Class 39.

Hochberg, Albert, Co.: *See*—
Hochberg, Albert.

Hoffmann-La Roche Inc., Nutley, N. J. Periodical. 534,823, Dec. 12; Serial No. 575,860. Class 38.

Holoplast Limited, New Hythe, near Maidstone, Kent, England. Furniture. 444,358, Dec. 12; Serial No. 522,661, published Sept. 19, 1950. Class 32.

Home Outfitters, Inc., Chicago, Ill. Mattresses. 534,542, Dec. 12; Serial No. 536,899, published Aug. 29, 1950. Class 32.

Horn & Hardart Baking Company, Philadelphia, Pa. Cooked meats; smoked meats; desserts, etc. 534,551, Dec. 12; Serial No. 542,126, published July 25, 1950. Class 46.

Hotpoint Inc., Chicago, Ill. Electric heating and cooking appliances. 534,765, Dec. 12; Serial No. 587,679, published Sept. 19, 1950. Class 21.

Hub Appliance Stores: *See*—
Morguloff, Alex.

Huber Engineering Company: *See*—
Huber, John E.

Huber, John E., doing business as Huber Engineering Company, Cincinnati, Ohio. Portable infant and youth chairs. 534,818, Dec. 12; Serial No. 553,704. Class 32.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Unitary hand-operated sprayers. 534,761, Dec. 12; Serial No. 587,488, published Sept. 5, 1950. Class 23.

Ideal Pictures Corporation, Chicago, Ill. Leasing of developed motion picture films. 534,806, Dec. 12; Serial No. 583,131, published Sept. 12, 1950. Class 107.

Imperial Candy Company, Seattle, Wash. Candy. 534,543, Dec. 12; Serial No. 537,696, published July 25, 1950. Class 46.

Independent Retailers Syndicate, Inc., New York, N. Y. Men's shirts, T-shirts, briefs, etc. 534,826, Dec. 12; Serial No. 579,025. Class 39.

Indian Trailer Corporation, Chicago, Ill. Automobile trailer restaurant. 534,769, Dec. 12; Serial No. 588,030, published Sept. 12, 1950. Class 19.

Interchemical Corporation, New York, N. Y. Baking enamels. 534,647, Dec. 12; Serial No. 572,501, published Sept. 5, 1950. Class 16.

International Guards Union of America, Chicago, Ill. Guarding of real and personal property. 534,809, Dec. 12; Serial No. 566,941, published Sept. 19, 1950. Class 100.

International Latex Corporation, Dover, Del. Waterproof baby pants. 534,740, Dec. 12; Serial No. 585,799, published Sept. 12, 1950. Class 39.

International Milling Company, Minneapolis, Minn. Wheat flour. 534,662, Dec. 12; Serial No. 575,471, published July 25, 1950. Class 46.

International Packers Commercial Co., Inc., Chicago, Ill. Canned spiced cooked beef, canned corned brisket beef, etc. 534,668, Dec. 12; Serial No. 576,334, published July 18, 1950. Class 46.

International Projector Corporation, Bloomfield, N. J. Motion-picture-projection machines and parts thereof. 275,965, Oct. 7, 1930. Republished Dec. 12, 1950. Class 26.

Irving-Cloud Publishing Company, The, Chicago, Ill. Periodical publication. 534,833, Dec. 12; Serial No. 586,171. Class 38.

Jaeger Machine Company, The, Columbus, Ohio. Air compressors. 534,753, Dec. 12; Serial No. 587,110, published Aug. 29, 1950. Class 23.

Jantzen Knitting Mills Inc., Portland, Oreg. Knitted fabric. 534,696, Dec. 12; Serial No. 580,242, published Sept. 5, 1950. Class 42.

Jefferson Union Company, Inc., New York and Lockport, N. Y., and Lexington, Mass., to Jefferson Union Company, Inc., Lexington, Mass. Pipe unions. 276,141, renewed Oct. 7, 1950. O. G. Dec. 12. Class 13.

Jensen, Georg, Inc., New York, N. Y. Sheets, pillowcases, crib covers, etc. 534,521, Dec. 12; Serial No. 504,848, published Aug. 29, 1950. Class 42.

Johnson, Berd L., doing business as Circle-Y Tool Co., Freeport, Ill. Cylinder bore roughing and finishing tools and parts therefor. 534,745, Dec. 12; Serial No. 586,247, published Aug. 29, 1950. Class 23.

Johnson, S. C., & Son, Inc., Racine, Wis. Wax and wax products. 534,538, Dec. 12; Serial No. 531,679, published Sept. 12, 1950. Class 4.

Juilliard, A. D., & Co., Inc., New York, N. Y. Corduroy piece goods. 534,791, Dec. 12; Serial No. 592,264, published Sept. 5, 1950. Class 42.

Juillard Fancy Foods Co., San Francisco, Calif., by change of name from Martens-Read Corporation, doing business as Juillard Fancy Foods Co. Pickles, caviar. 534,531, Dec. 12; Serial No. 524,142, published July 11, 1950. Class 46.

Keco Industries, Inc., Cincinnati, Ohio. Electric coils, fans, etc. 534,736, Dec. 12; Serial No. 585,450, published Sept. 19, 1950. Class 21.

Khosrovshahi Co., Inc., New York, N. Y. Radio receiving sets and parts thereof. 534,747, Dec. 12; Serial No. 586,286, published Sept. 12, 1950. Class 21.

Kiekhaefer Corporation, Cedarburg, Wis. Outboard motors, industrial engines and parts thereof. 534,620, Dec. 12; Serial No. 565,937, published Aug. 29, 1950. Class 23.

Kirsch Company, Sturgis, Mich. Venetian blinds. 534,584, Dec. 12; Serial No. 556,636, published Aug. 29, 1950. Class 32.

Knapp-Monarch Company, St. Louis, Mo. Syphon bottles. 438,535, Apr. 27, 1948. Republished Dec. 12, 1950. Class 2.

Knapp-Monarch Company, St. Louis, Mo. Syphon bulbs or capsules containing compressed or liquefied gas. 438,920–2, May 18, 1948. Republished Dec. 21, 1950. Class 6.

Knapp-Monarch Company, assignor to Knapp-Monarch Company, by Knapp-Monarch Company, St. Louis, Mo. Filled insecticide dispensers with control valves. 443,764, Feb. 21, 1950. Republished Dec. 12, 1950. Class 6.

Knight, Elwin L., Portland, Oreg. Electric headlamps and mountings therefor. 534,546, Dec. 12; Serial No. 540,680, published Sept. 5, 1950. Class 21.

Kolite, Incorporated, Chicago, Ill. Electric lighting fixtures. 534,772, Dec. 12; Serial No. 588,497, published Sept. 19, 1950. Class 21.

Krispy Kernels, Inc., Newark, N. J. Salted nuts. 534,676, Dec. 12; Serial No. 578,147, published July 25, 1950. Class 46.

Kromwell Mfg. Co., Inc., Brooklyn, N. Y. Sun visor. 534,639, Dec. 12; Serial No. 570,031, published Sept. 19, 1950. Class 19.

Landau, J., Company, New York, N. Y. Lacquers, paint enamels, waterproofing paint coatings, etc. 534,730, Dec. 12; Serial No. 584,461, published Sept. 12, 1950. Class 16.

Lansing Sales Agency, Lansing, Ill. Portable automatic ice-handling machines. 534,717, Dec. 12; Serial No. 582,968, published Sept. 5, 1950. Class 23.

Lear, Incorporated, Grand Rapids, Mich. Radio transmitting and receiving apparatus, etc. 534,632, Dec. 12; Serial No. 568,738, published Sept. 5, 1950. Class 21.

Leatherwood Company, Inc., The, Bluefield, W. Va. Dairy products. 534,716, Dec. 12; Serial No. 582,568, published July 25, 1950. Class 46.

Lehman, Louis H., doing business as The Lehman Sprayshield Company, to Lehman Sprayshield Company, Philadelphia, Pa. Glass shower-stall doors and shower-bath shields. 279,224, renewed Jan. 13, 1951. O. G. Dec. 12. Class 13.

Lehman Sprayshield Company: *See*—
Lehman, Louis H.

Lehman Sprayshield Company, The: *See*—
Lehman, Louis H.

Leverton & Company, Houston, Tex. Canned fruits and vegetables, jams, etc. 534,625, Dec. 12; Serial No. 567,410, published July 18, 1950. Class 46.

Lewis Knitting Company, Janesville, Wis. Men's underwear. 534,522–3, Dec. 12; Serial Nos. 512,430–1, published Sept. 5, 1950. Class 39.

Lilly, Eli, and Company, Indianapolis, Ind. Chemical pharmaceutical, and biological products. 279,809, renewed Jan. 27, 1951. O. G. Dec. 12. Class 18.

Linen Thread Co., Inc., The: *See*—
Barbour Bros. Co., The.

Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. 534,776, Dec. 12; Serial No. 588,960, published Sept. 12. Class 19.

Loeser, Frederick, & Co., Inc., Brooklyn, N. Y. Men's outer shirts. 444,359, Dec. 12; Serial No. 524,318, published June 8, 1948. Class 39.

Lowe, Joe, Corporation, New York, N. Y. Flashlight. 534,693, Dec. 12; Serial No. 580,077, published Sept. 19, 1950. Class 21.

Loxit Systems, Inc., Chicago, Ill. Metal storage racks. 534,741, Dec. 12; Serial No. 585,852, published Sept. 5, 1950. Class 32.

Lynn Products Co., Chicago, Ill. Screw drivers; nut drivers; and crimping tools. 534,533, Dec. 12; Serial No. 528,212, published Aug. 29, 1950. Class 23.

M. K. M. Hosiery Mills, Inc., Jamaica Plain, Boston, Mass. Hosiery. 534,731, Dec. 12; Serial No. 584,587, published Aug. 15, 1950. Class 39.

Mallinson, H. R., & Company, Inc., to National Mallison Fabrics Corporation, New York, N. Y. Silk piece goods. 280,320, renewed Feb. 10, 1951. O. G. Feb. 12. Class 42.

Mandel, Max, Laces, Inc., New York, N. Y. Lace fabrics in the piece. 534,842, Dec. 12; Serial No. 591,176. Class 42.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 534,834, Dec. 12; Serial No. 587,389. Class 39.

Marathon Company, Attleboro, Mass. Combination cigarette cases and pyrophoric cigarette lighters. 534,566, Dec. 12; Serial No. 551,295, published Aug. 15, 1950. Class 8.

Marshall Field & Company, Chicago, Ill. Textile rugs. 534,638, Dec. 12; Serial No. 569,871, published Sept. 5, 1950. Class 42.

Marshall Field & Company, Chicago, Ill. Men's raincoats, suits, sweaters, etc. 534,751, Dec. 12; Serial No. 586,674, published Sept. 12, 1950. Class 39.

Marshall-Wells Company, Duluth, Minn. Electric domestic vacuum cleaners. 534,713, Dec. 12; Serial No. 582,312, published Sept. 19, 1950. Class 21.

Martens-Read Corporation: *See*—
Juillard Fancy Foods Co.

Marvin Landplane Co., Woodland, Calif. Agricultural implements. 534,692, Dec. 12; Serial No. 579,751, published Aug. 22, 1950. Class 23.

Mary Elizabeth Frocks, New York, N. Y. Ladies' dresses. 534,780, Dec. 12; Serial No. 589,861, published Sept. 12, 1950. Class 39.

Mason, John, New York, N. Y. Musical instruments. 534,674, Dec. 12; Serial No. 577,973, published Aug. 22, 1950. Class 36.

Mastar Packing Company, Brooklyn, N. Y. Blend of soya and corn oils. 534,574, Dec. 12; Serial No. 553,884, published June 13, 1950. Class 46.

Maxwell-Phillip Co., Inc., New York, N. Y. Holder for gripping food. 534,576, Dec. 12; Serial No. 554,682, published Sept. 5, 1950. Class 23.

May Department Stores Company, The: *See*—
Schoeneman, J., Incorporated.

May Department Stores Company, The, St. Louis, Mo. Toilet preparations. 278,427, renewed Dec. 16, 1950. O. G. Dec. 12. Class 51.

May Department Stores Company, The, St. Louis, Mo. Flannelette diapers. 278,636, renewed Dec. 23, 1950. O. G. Dec. 12. Class 39.

McGraw Electric Company, Elgin, Ill. Electrical appliances. 534,773, Dec. 12; Serial No. 588,584, published Sept. 5, 1950. Class 21.

McLaren-Consolidated Cone Corporation, Dayton, Ohio, to National Biscuit Company, New York, N. Y. Ice cream cones. 274,812, renewed Sept. 9, 1950. O. G. Dec. 12. Class 46.

Meb Export Co. Inc., New York, N. Y. Piece goods. 534,690, Dec. 12; Serial No. 579,506, published Sept. 5, 1950. Class 42.

Medart Company, The: *See*—
Medart, Fred.
Medart, Fred, Manufacturing Co.

Medart, Fred, Manufacturing Co., to The Medart Company, St. Louis, Mo. Gymnasium and playground apparatus. 280,236, renewed Feb. 10, 1951. O. G. Dec. 12. Class 22.

Medart, Fred, Manufacturing Co., to The Medart Company, St. Louis, Mo. Steel lockers, steel shelving, steel cabinets, etc. 280,326, renewed Feb. 10, 1951. O. G. Dec. 12. Class 32.

Meier & Pohlmann Furniture Company, St. Louis, Mo. Plastic tops for dining and dinette tables. 534,672, Dec. 12; Serial No. 577,580, published Aug. 29, 1950. Class 32.

Metal Office Furniture Co., Grand Rapids, Mich. Metal filing cabinets, metal storage cases, metal tabulating card files, etc. 534,526, Dec. 12; Serial No. 515,668, published June 28, 1949. Class 32.

Metropolitan Body Company, The, Bridgeport, Conn. Commercial motor vehicles. 534,612, Dec. 12; Serial No. 564,639, published Aug. 29, 1950. Class 19.

Meyers Fruit Company, Minneapolis, Minn. Fresh grapefruit. 534,675, Dec. 12; Serial No. 578,089, published July 25, 1950. Class 46.

Michaud, A., Co.: *See*—
Michaud, Abner.

Michaud, Abner, doing business as A. Michaud Co., Philadelphia, Pa. Fresh meat. 534,619, Dec. 12; Serial No. 565,836, published July 18, 1950. Class 46.

Mid-West Tobacco Co., The, Cincinnati, Ohio. Chewing tobacco. 534,796, Dec. 12; Serial No. 592,824, published Sept. 19, 1950. Class 17.

Millers Falls Company, Greenfield, Mass. Saw blades. 534,581, Dec. 12; Serial No. 556,271, published Aug. 29, 1950. Class 23.

Mine and Smelter Supply Company, The, Denver, Colo. Hose pinch valves and parts therefor. 411,337, Jan. 16, 1945. Republished Dec. 12. Class 13.

Minnesota Macaroni Company, St. Paul, Minn. Macaroni. 534,704, Dec. 12; Serial No. 581,676, published July 25, 1950. Class 46.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Color pigments. 534,603, Dec. 12; Serial No. 562,484, published Sept. 12, 1950. Class 16.

Minnesota Valley Canning Company, Le Sueur, Minn., now by change of name Green Giant Company. Canned corn. 534,680, Dec. 12; Serial No. 578,276, published July 25, 1950. Class 46.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Rubber soled canvas shoes and oxfords and insoles therefor. 534,535, Dec. 12; Serial No. 529,671, published Aug. 22, 1950. Class 39.

Modesto Produce Packing Co., Inc., Modesto, Calif. Fresh melons, fresh deciduous fruits and fresh vegetables. 534,580, Dec. 12; Serial No. 556,212, published July 18, 1950. Class 46.

Monroe Auto Equipment Company, Monroe, Mich. Automobile, truck, bus and railway shock absorbers. 534,595, Dec. 12; Serial No. 560,643, published Sept. 5, 1950. Class 19.

Mooney, Jesse E., Jr., Savannah, Ga. Meat, vegetable, and fish sauce. 534,667, Dec. 12; Serial No. 576,273, published July 18, 1950. Class 46.

Morguloff, Alex, doing business as Hub Appliance Stores, Detroit, Mich. Sewing machines and parts thereof. 534,798, Dec. 12; Serial No. 598,313, published Sept. 5, 1950. Class 23.

Morse-Starret Products Company, Oakland, Calif. Manually operated cable cutters. 534,544, Dec. 12; Serial No. 539,336, published Sept. 5, 1950. Class 23.

Mountain Home Smart Apparel: *See*—
Friedlen, Meyer L.

National Biscuit Company: *See*—
McLaren-Consolidated Cone Corporation.

National Industrial Laundries, Newark, N. J. Towels. 534,626, Dec. 12; Serial No. 567,422, published Sept. 5, 1950. Class 42.

National Mallinson Fabrics Corporation: *See*—
Mallinson, H. R., & Company, Inc.

Native Laces & Textiles, Incorporated, New York, N. Y. Textile fabrics in the piece. 534,788, Dec. 12; Serial No. 592,092, published Sept. 5, 1950. Class 42.

Native Laces & Textiles, Incorporated, New York, N. Y. Textile fabrics in the piece. 534,793, Dec. 12; Serial No. 592,513, published Sept. 5, 1950. Class 42.

Navas, F., y Compañía, Habana, Cuba. Pedal bicycles. 534,691, Dec. 12; Serial No. 579,588, published Aug. 29, 1950. Class 19.

Nelson-Columbia, Hugh, Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. 534,660, Dec. 12; Serial No. 575,109, published Sept. 5, 1950. Class 42.

New England Confectionery Company: *See*—
Fobes, Hayward & Company, Incorporated.

New England Confectionery Company, Cambridge, Mass. Candy. 275,592, renewed Sept. 23, 1950. O. G. Dec. 12. Class 46.

New Jersey Zinc Company, The, New York, N. Y. Zinc oxide for use in paints and ingredients thereof. 534,629, Dec. 12; Serial No. 568,268, published Sept. 12, 1950. Class 16.

New York Consolidated Card Company, New York, N. Y., by The United States Playing Card Company, Cincinnati, Ohio. Playing cards. 60,314, Feb. 5, 1907. Republished Dec. 12. Class 22.

Nischan, John C., doing business as Nischan Products Co., Hammond, Ind. Draw punches. 534,616, Dec. 12; Serial No. 565,445, published Aug. 15, 1950. Class 23.

Nischan Products Co.: *See*—
Nischan, John C.

Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals and printed decorative tags. 534,841, Dec. 12; Serial No. 590,865. Class 38.

Norris, Incorporated, Atlanta, Ga. Candy. 534,587, Dec. 12; Serial No. 557,686, published July 4, 1950. Class 46.

North Shore Clinical Laboratory: *See*—
Brandlon, A. A. J.

Nuchief Sales, Inc.: *See*—
Washington Sales, Inc.

O-Cedar Corp'n, Chicago, Ill. Wax polish and cleanser. 534,550, Dec. 12; Serial No. 541,769, published Sept. 19, 1950. Class 4.

Olga Company, Los Angeles, Calif. Girdles, pantie girdles, etc. 534,642, Dec. 12; Serial No. 571,570, published Sept. 19, 1950. Class 39.

Onondaga Silk Co., Inc., New York, N. Y. Textile fabrics in the piece. 534,684, Dec. 12; Serial No. 579,051, published Sept. 5, 1950. Class 42.

Orr Felt & Blanket Company, The, Piqua, Ohio. Blankets. 534,678, Dec. 12; Serial No. 578,215, published Sept. 5, 1950. Class 42.

Overton, Carl E., doing business as Austin Tool Works, Chicago, Ill. Arbors used with machinery and machine tools. 534,565, Dec. 12; Serial No. 551,194, published Aug. 29, 1950. Class 23.

Pacific Car and Foundry Company, Renton, Wash. Heavy machinery and parts thereof. 532,083, Oct. 17, 1950. Corrected. O. G. Dec. 12. Class 23.

Pacific Car and Foundry Company, Renton, Wash. Speed changing transmissions. 534,766, Dec. 12; Serial No. 587,693, published Sept. 5, 1950. Class 23.

Padre Vineyard Company: *See*—
Val Bros.

Palnut Company, The, Irvington, N. J. Nut locks. 280,251, renewed Feb. 10, 1951. O. G. Dec. 12. Class 13.

Palnut Company, The, Irvington, N. J. Nut locks. 280,261, renewed Feb. 10, 1951. O. G. Dec. 12. Class 13.

Pantasote Company, The, Passaic, N. J. Plastic coated fabrics. 534,578, Dec. 12; Serial No. 555,621, published Sept. 5, 1950. Class 42.

Parker Pipe Company Limited, The, London, England. Tobacco pipes, tobacco pouches, tobacco pipe scrapers, etc. 534,671, Dec. 12; Serial No. 577,448, published Aug. 29, 1950. Class 8.

Patek Brothers, Inc., Milwaukee, Wis. Interior and exterior paints. 534,539, Dec. 12; Serial No. 532,872, published Sept. 12, 1950. Class 16.

Pemco Corporation, Baltimore, Md. Ceramic overglaze colors, ceramic engobes colors, etc. 534,633, Dec. 12; Serial No. 568,974, published Sept. 12, 1950. Class 16.

Permo Incorporated, Chicago, Ill. Noncorrosive and wear-resisting phonograph styli. 534,592, Dec. 12; Serial No. 559,427, published Aug. 22, 1950. Class 36.

Pharis Tire and Rubber Company, The, Newark, Ohio, to Carlisle Corporation, Carlisle, Pa. Motor-vehicle tires, casings, and tubes. 273,393, renewed Aug. 5, 1950. O. G. Dec. 12. Class 35.

Philadelphia Dairy Products Company, Inc., Philadelphia, Pa. Butter and cottage cheese. 534,590, Dec. 12; Serial No. 559,244, published July 25, 1950. Class 46.

Phillips Pump & Tank Company, Cincinnati, Ohio. Mechanically operated washing racks for washing motor vehicles. 534,734, Dec. 12; Serial No. 585,184, published Sept. 19, 1950. Class 23.

Placerville Fruit Growers Association, Placerville, Calif. Fresh pears. 534,537, Dec. 12; Serial No. 531,514, published July 25, 1950. Class 46.

Plastic Art Toy Corporation of America, East Rutherford, N. J. Mechanically grooved phonograph records. 534,698, Dec. 12; Serial No. 580,672, published Aug. 22, 1950. Class 36.

Plaza Mills, Inc., New York, N. Y. Rayon piece goods. 534,634, Dec. 12; Serial No. 568,977, published Sept. 5, 1950. Class 42.

Polyscope Equipment & Appliance Co., Inc., Brooklyn, N. Y. Magnetically-attached utility trays for automobiles. 534,727, Dec. 12; Serial No. 584,153, published Sept. 5, 1950. Class 19.

Portis Style Industries, Inc., Chicago, Ill. Hats and caps for men and boys. 534,524, Dec. 12; Serial No. 514,775, published Apr. 20, 1948. Class 39.

Portland Woolen Mills, Inc., Portland, Oreg. Woolen perambulator coverlets. 534,683, Dec. 12; Serial No. 578,822, published Sept. 5, 1950. Class 42.

Praco Travel Service, Inc., New York, N. Y. Travel agency service. 534,803, Dec. 12; Serial No. 572,585, published Sept. 19, 1950. Class 105.

Premier Drum Company Limited, The, South Wigston, Leicester and London, England. Percussion musical instruments. 534,724, Dec. 12; Serial No. 583,946, published Aug. 22, 1950. Class 36.

Prestige, Inc., New York, N. Y. Hosiery. 534,743, Dec. 12; Serial No. 586,012, published Sept. 19, 1950. Class 39.

Presto Plastic Products Co. Inc., New York, N. Y. Plastic film. 444,354–5, Dec. 12; Serial Nos. 500,770–1, published Sept. 5, 1950. Class 42.

Quaker Maid Mills, Inc., Philadelphia, Pa. Knitted rugs. 534,540, Dec. 12; Serial No. 533,615, published Aug. 29, 1950. Class 42.

Quaker Oats Company, The, Chicago, Ill. Wheat flour and poultry and livestock feeds. 534,670, Dec. 12; Serial No. 577,342, published July 18, 1950. Class 46.

Quantacolor Company, The, New York, N. Y. Color harmony service for manufacturers, merchants, designers, etc. 534,801, Dec. 12; Serial No. 555,199, published Sept. 19, 1950. Class 100.

Radio Magazines, Inc., New York, N. Y. Monthly publications. 534,812, Dec. 12; Serial No. 518,323. Class 38.

Reliable Textile Company, The, doing business as The Relton Company, Chicago, Ill. Cushions of foam rubber. 534,628, Dec. 12; Serial No. 567,648, published Sept. 5, 1950. Class 32.

Relton Company, The: *See*—
Reliable Textile Company, The.

Remington Radio Corporation, White Plains, N. Y. Electrical phonographs, radio receiving sets, radio transmitting sets, etc. 534,623, Dec. 12; Serial No. 567,210, published Sept. 12, 1950. Class 21.

Renberles Products: *See*—
Brunk, Leslie I.

Republic Paint & Varnish Co., Chicago, Ill. Paint enamels and quick drying varnish stains. 534,547, Dec. 12; Serial No. 541,459, published Sept. 12, 1950. Class 16.

Roth, Emanuel, Co. Inc., New York, N. Y. Wide lace yard goods, wide embroidered and plain fabrics, etc. 534,588, Dec. 12; Serial No. 558,289, published Sept. 5, 1950. Class 42.

Royal Metal Manufacturing Company, Chicago, Ill. Beauty shop chairs. 534,528, Dec. 12; Serial No. 521,030, published Aug. 29, 1950. Class 32.

Royal Worcester Corset Company, Worcester, Mass. Combination and one-piece bandeaux and girdles. 534,694, Dec. 12; Serial No. 580,098, published Sept. 12, 1950. Class 39.

Rudin & Roth, New York, N. Y. Hosiery. 534,742, Dec. 12; Serial No. 585,893, published Sept. 19, 1950. Class 39.

Ryan Aeronautical Co., The, San Diego, Calif. Airplanes and structural parts thereof. 534,556, Dec. 12; Serial No. 545,282, published Aug. 29, 1950. Class 19.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and elsewhere. Bakery goods. 534,677, Dec. 12; Serial No. 578,168, published July 25, 1950. Class 46.

Sage Brush Originals, Inc., Cheyenne, Wyo. Luncheon cloths and table cloths. 534,681, Dec. 12; Serial No. 578,287, published Sept. 5, 1950. Class 42.

St. Clair Rubber Company, Detroit, Mich. Rubber and synthetic rubber-coated fabrics. 534,594, Dec. 12; Serial No. 560,580, published Sept. 5, 1950. Class 42.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparations. 283,776, June 9, 1931. Amended. O. G. Dec. 12. Class 6.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Saws, axes, sledges, etc. 534,545, Dec. 12; Serial No. 539,468, published Sept. 19, 1950. Class 23.

Sanger Citrus Association, Sanger, Calif. Fresh citrus fruits. 534,728, Dec. 12; Serial No. 584,156, published July 18, 1950. Class 46.

Scheidt, Chris H., doing business as Biola Packing Co., Biola, Calif. Raisins. 534,572, Dec. 12; Serial No. 553,314, published Jan. 3, 1950. Class 46.

Scherer, R. P., Corporation, Detroit, Mich. Capsulated materials. 534,608, Dec. 12; Serial No. 563,019, published Sept. 5, 1950. Class 22.

Schoeneman, J., Incorporated, Baltimore, Md., to The May Department Stores Company, St. Louis, Mo. Coats, vests, trousers, etc., for men, youths, and boys. 278,658, renewed Dec. 23, 1950. O. G. Dec. 12. Class 39.

Schwab, Armand, & Co., Inc., New York, N. Y. Millinery braids. 534,748, Dec. 12; Serial No. 586,316, published Aug. 15, 1950. Class 40.

Schwarz, Max, Manufacturer La Primadora Havana Cigars, Ltd., New York, N. Y. Cigars. 444,356, Dec. 12; Serial No. 510,362, published Sept. 12, 1950. Class 17.

Scovill Manufacturing Company, Waterbury, Conn., and Racine, Wis., and other places. Electric motor driven food mixers. 534,718, Dec. 12; Serial No. 583,124, published Sept. 19, 1950. Class 21.

Seagram, Joseph E., & Sons, Inc.: *See*—
Seagram, Joseph E., & Sons Limited.

Seagram, Joseph E., & Sons Limited, Waterloo, Ontario, Canada, by Joseph E. Seagram & Sons, Inc., New York, N. Y. Whiskey and potable spirits. 301,726, Mar. 14, 1933. Republished Dec. 12. Class 49.

Seal-Rite Caulking Co., Inc., Brooklyn, N. Y. Caulking guns, and nozzles and parts for the same. 534,816, Dec. 12; Serial No. 533,821. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Baby cribs, youths' beds, chifforobes, etc. 534,591, Dec. 12; Serial No. 559,343, published Sept. 5, 1950. Class 32.

Sears, Roebuck and Co., Chicago, Ill. Women's and misses' underwear. 534,775, Dec. 12; Serial No. 588,895, published Sept. 12, 1950. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Repairing electrical home appliances. 534,804, Dec. 12; Serial No. 573,206, published Sept. 12, 1950. Class 103.

Seiler, Karl, & Sons, Inc., Philadelphia, Pa. Bologna sausage. 534,707, Dec. 12; Serial No. 581,993, published July 25, 1950. Class 46.

Service Textile Company, Inc., Newark, N. J. Cotton towels. 534,669, Dec. 12; Serial No. 576,594, published Sept. 5, 1950. Class 42.

Sherman, Sol, New York, N. Y. Bowties. 534,836, Dec. 12; Serial No. 588,528. Class 39.

Skinner Manufacturing Company, Omaha, Nebr. Macaroni. 534,664, Dec. 12; Serial No. 575,788, published July 25, 1950. Class 46.

Slaughter, T. C., Company, Reedville, Va. Canned cat food. 534,720, Dec. 12; Serial No. 583,299, published July 18, 1950. Class 46.

Smith, Edward, & Co., Inc., New York, N. Y. Cable paint, varnish, spar varnish, etc. 534,617, Dec. 12; Serial No. 565,585, published Sept. 19, 1950. Class 16.

Smith-Frank Packing Co., Sacramento, by Frank M. Wilson Company, Stockton, Calif. Canned fruits. 144,937, July 19, 1921. Republished Dec. 12. Class 46.

Smith, Milton T., doing business as Economy Furniture Upholstery, Austin, Tex. End tables, coffee tables, lounge chairs, etc. 534,726, Dec. 12; Serial No. 584,085, published Aug. 29, 1950. Class 32.

Societe Anonyme M. Naef & Cie., Geneva, Switzerland, to Firmenich & Co., New York, N. Y. Artificial and synthetical perfumes, essential oils. 280,711, renewed Feb. 24, 1951. O. G. Dec. 12. Class 51.

Sperry Candy Company, Milwaukee, Wis. Candy bars. 534,548, Dec. 12; Serial No. 541,599, published July 25, 1950. Class 46.

Sporting Goods Publishing Company, The, St. Louis, Mo. Monthly publication. 534,819, Dec. 12; Serial No. 565,822. Class 38.

Spurgeon Hosiery Corporation, Philadelphia, Pa. Hosiery. 534,750, Dec. 12; Serial No. 586,660, published Sept. 19, 1950. Class 39.

Standard Fruit Product Company, The, Cincinnati, Ohio. Frozen confections. 534,719, Dec. 12; Serial No. 583,128, published July 25, 1950. Class 46.

Standard & Poor's Corporation: *See*—
Standard Statistics Company, The.

Standard Statistics Company, The, to Standard & Poor's Corporation, New York, N. Y. Periodical publication. 273,673, renewed Aug. 5, 1950. O. G. Dec. 12. Class 38.

Stein, A., & Company, Chicago, Ill. Hose-supporters. 80,685, re-renewed Jan. 17, 1951. O. G. Dec. 12. Class 39.

Steri-A-Fone Corporation of America, Seattle, Wash. Telephone support and sterilizer. 534,715, Dec. 12; Serial No. 582,502, published Sept. 19, 1950. Class 21.

Stollwerck, A. N., Inc., Camden, N. J. Chocolate and cocoa butter. 534,825, Dec. 12; Serial No. 577,751. Class 46.

Stout, Charles B., doing business as Washington Flour Mill, Washington, Mo. Wheat flour. 277,719, renewed Nov. 25, 1950. O. G. Dec. 12. Class 46.

Stout, Charles B., doing business as Washington Flour Mill, Washington, Mo. Wheat flour. 278,014, renewed Dec. 2, 1950. O. G. Dec. 12. Class 46.

Strathmore Packing House Co., Strathmore, Calif. Fresh citrus fruits. 534,648, Dec. 12; Serial No. 572,701, published July 25, 1950. Class 46.

Strawbridge & Clothier, Philadelphia, Pa. Women's shoes. 279,567, renewed Jan. 20, 1951. O. G. Dec. 12. Class 39.

Street & Smith Publications, Inc., New York, N. Y. Advertising goods and services of others through the medium of a radio program. 534,805, Dec. 12; Serial No. 581,038, published Sept. 12, 1950. Class 101.

Sunbeam Corporation, Chicago, Ill. Electric heating pads. 534,785, Dec. 12; Serial No. 590,528, published Sept. 5, 1950. Class 21.

Swift & Company, Chicago, Ill. Edible gelatin. 534,646, Dec. 12; Serial No. 572,071, published July 25, 1950. Class 46.

Tailor-Bird Sewing Machine Company Limited, The, London and Sandwich, England. Sewing machines and parts thereof. 534,786, Dec. 12; Serial No. 590,717, published Sept. 19, 1950. Class 23.

Talk-A-Phone Co., Chicago, Ill. Interoffice and interplant telephonic communication apparatus. 534,827–8, Dec. 12; Serial Nos. 582,662–3. Class 21.

Tampax Incorporated, New York, N. Y. Baby panties. 534,738, Dec. 12; Serial No. 585,688, published Sept. 12, 1950. Class 39.
Technical Publishing Company, Chicago, Ill. Monthly publication. 534,821–2, Dec. 12; Serial Nos. 572,531–2. Class 38.
Tennant, G. H., Company, Minneapolis, Minn. Electric motor and internal combustion engine operated sweeping, sanding, etc., machines, etc. 534,541, Dec. 12; Serial No. 534,567, published Sept. 5, 1950. Class 23.
Texas Coffee Company: *See*—
Texas Coffee Company, Incorporated.
Texas Coffee Company, Incorporated, to Texas Coffee Company, Beaumont, Tex. Coffee. 271,090, renewed May 27, 1950. O. G. Dec. 12. Class 46.
Thompson Distributors, Bakersfield, Calif. Fresh grapes. 534,714, Dec. 12; Serial No. 582,451, published July 25, 1950. Class 46.
Tite-Cap Machine Co., Inc., New York, N. Y. Machines for applying closures to bottles. 534,829, Dec. 12; Serial No. 583,961. Class 23.
Toni Company, The, Chicago, Ill., and St. Paul, Minn., assignor to Gillette Safety Razor Company, Boston, Mass. Dolls and doll hair wave sets. 534,699, Dec. 12; Serial No. 581,103, published Sept. 5, 1950. Class 22.
Tootal Broadhurst Lee Co. Limited, Manchester, England. Piece goods. 534,564, Dec. 12; Serial No. 559,966, published Sept. 5, 1950. Class 42.
Triangle Grain Company, Ltd., Bellflower, Calif. Dairy feed. 534,585, Dec. 12; Serial No. 556,671, published July 11, 1950. Class 46.
Troy Blanket Mills, Troy, N. H. Blankets and automobile robes. 534,679, Dec. 12; Serial No. 578,237, published Sept. 5, 1950. Class 42.
Tudor Square Sportswear, Inc., New York, N. Y. Misses' and junior misses' skirts, slacks, etc. 534,663, Dec. 12; Serial No. 575,683, published Sept. 19, 1950. Class 39.
Tung Oil Products, Inc., Brooker, Fla. Spar varnish. 534,657, Dec. 12; Serial No. 573,997, published Sept. 5, 1950. Class 16.
Unbekannt, Carl, Hoboken, N. J., to Marie Unbekannt, New Paltz, N. Y. Staging ink. 266,605, renewed Jan. 28, 1950. O. G. Dec. 12. Class 11.
Unbekannt, Marie: *See*—
Unbekannt, Carl.
Union Tool Company, Orange, Mass. Machinists' parallel clamps, hack saw frames, nail sets, etc. 534,530, Dec. 12; Serial No. 523,297, published Sept. 19, 1950. Class 23.
United Dairy Co., The, Barnesville, Ohio. Evaporated milk. 534,733, Dec. 12; Serial No. 584,935, published July 25, 1950. Class 46.
United States Air Compressor Company, The, Cleveland, Ohio. Air compressors and parts thereof; automotive vehicle lifts and reciprocating jacks, etc. 534,536, Dec. 12; Serial No. 529,729, published Sept. 19, 1950. Class 23.
U. S. Expansion Bolt Co., York, Pa. Drill points; drill holders, etc. 534,735, Dec. 12; Serial No. 585,260, published Aug. 15, 1950. Class 23.
United States Playing Card Company, The: *See*—
New York Consolidated Card Company.
United Wallpaper, Inc., Chicago, Ill. Draperies and fabric wall coverings. 534,593, Dec. 12; Serial No. 560,507, published Sept. 5, 1950. Class 42.
Universal Battery Co., Chicago, Ill. Electric storage batteries and parts thereof. 534,631, Dec. 12; Serial No. 568,694, published Sept. 12, 1950. Class 21.
Universal Oil Products Company, Chicago, Ill. Engineering and development services. 534,802, Dec. 12; Serial No. 566,960, published Sept. 12, 1950. Class 100.
Utica Drop Forge & Tool Corporation, Utica, N. Y. Pliers, nippers, wrenches, etc. 534,764, Dec. 12; Serial No. 587,664, published Sept. 12, 1950. Class 23.
Vai Bros., doing business as California Medicinal Wine Co., to Padre Vineyard Company, Los Angeles, Calif. Wine, champagne. 277,508, renewed Nov. 11, 1950. O. G. Dec. 12. Class 47.
Valcort Hosiery Corporation, New York, N. Y. Ladies' and misses' hosiery. 409,599, Oct. 10, 1944. Republished Dec. 12. Class 39.
Van Dyk, James, Co., Inc.: *See*—
Van Dyk, James, Company.
Van Dyk, James, Company, New York, to James Van Dyk Co., Inc., Brooklyn, N. Y. Butter and eggs. 271,327, renewed June 3, 1950. O. G. Dec. 12. Class 46.
Velma Lingerie Corp., New York, N. Y. Ladies' slips. 534,818, Dec. 12; Serial No. 565,831, published Sept. 12, 1950. Class 39.
Vivette Foundations, Inc., New York, N. Y. Girdles, corsets, and brassières. 534,777, Dec. 12; Serial No. 589,056, published Sept. 19, 1950. Class 39.
Volliva, Wilbur G., doing business as Zion Baking Industry, to Zion Industries, Inc., Zion, Ill. Fig bars. 270,455, renewed May 6, 1950. O. G. Dec. 12. Class 46.
Vortex Mfg. Co., The, Chicago, Ill., by Dixie Cup Company, Easton, Pa. Paper drinking cups. 103,303, Mar. 30, 1915. Republished Dec. 12. Class 2.
Warner & Swasey Company, The, Cleveland, Ohio. Machine tools. 534,737, Dec. 12; Serial No. 585,465, published Aug. 15, 1950. Class 23.
Washington Flour Mill: *See*—
Stout, Charles B.
Washington Sales, Inc., Wenatchee, Wash., now by change of name Nuchief Sales, Inc. Fresh apples. 534,808, Dec. 12; Serial No. 542,809, published July 5, 1949. Class 46.
Wauchula Cucumber and Tomato Growers Cooperative, Wauchula, Fla. Fresh vegetables. 534,810–11, Dec. 12; Serial No. 583,626–7, published July 18, 1950. Class 46.
Webster, G. L., Company, Inc., Cheriton, Va. Vegetable juice cocktail. 534,549, Dec. 12; Serial No. 541,615, published July 25, 1950. Class 46.
Wennonah Cotton Mills Company, Lexington, N. C. Textile fabrics. 534,571, Dec. 12; Serial No. 553,227, published Sept. 5, 1950. Class 42.
Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio amplifiers. 534,654, Dec. 12; Serial No. 573,394, published Sept. 5, 1950. Class 21.
White Turkey—Murray Hill, The, New York, N. Y. Coffee. 534,568, Dec. 12; Serial No. 552,028, published June 6, 1950. Class 46.
Whitehall Pharmacal Company, New York, N. Y. Antihistamine tablets. 534,774, Dec. 12; Serial No. 588,613, published Oct. 3, 1950. Class 18.
Whitney, Vincent, Company, San Francisco, Calif. Non-electric dumb waiters and hand power elevators. 534,689, Dec. 12; Serial No. 579,366, published Sept. 12, 1950. Class 23.
Wilson, Frank M., Company: *See*—
California Co-Operative Canneries.
Smith-Frank Packing Co.
Wilson, Frank M., Company, Stockton, Calif. Canned fruits and canned vegetables. 378,152, May 28, 1940. Republished Dec. 12. Class 46.
Winchester Toy Company, Philadelphia, Pa. Combination toy. 534,637, Dec. 12; Serial No. 569,545, published Sept. 5, 1950. Class 22.
Wings Publishing Co., Inc., New York, N. Y. Monthly fiction magazine. 534,641, Dec. 12; Serial No. 571,477, published Sept. 5, 1950. Class 38.
Wink, Inc., Shreveport, La. Convertible crib. 534,752, Dec. 12; Serial No. 586,776, published Sept. 5, 1950. Class 22.
Winter & Company, Inc., New York, N. Y. Player piano attachment. 534,573, Dec. 12; Serial No. 533,559, published Sept. 19, 1950. Class 36.
Wohl, L., & Company, Inc., New York, N. Y. Ladies', misses', and children's dresses, blouses, skirts, etc. 534,744, Dec. 12; Serial No. 586,214, published Sept. 12, 1950. Class 39.
Wolter, Bernard G., Peoria, Ill. Fresh potatoes. 534,712, Dec. 12; Serial No. 582,261, published July 25, 1950. Class 46.
Wood, Gar: *See*—
Wood, Garfield A.
Wood, Gar, Industries, Inc.: *See*—
Wood, Garfield A.
Wood, Garfield A., doing business as Gar Wood, Miami Beach, Fla., assignee of Gar Wood Industries, Inc. Motor boats, cabin cruisers, open cruisers, etc. 534,527, Dec. 12; Serial No. 517,904, published Sept. 5, 1950. Class 19.
Woods, S. A., Machine Company, Boston, Mass. Power driven wood planing machines, etc. 534,555, Dec. 12; Serial No. 545,207, published Aug. 22, 1950. Class 23.
Woolson Spice Company, The, Toledo, Ohio. Coffee, tea and whole and ground spices, etc. 534,688, Dec. 12; Serial No. 579,303, published July 25, 1950. Class 46.
World's Messenger Publishing Company, The: *See*—
Blackwell, Elizabeth, executrix.
Worldsbest Industries, Inc., Cudahy, Wis. Curtain stretchers. 534,787, Dec. 12; Serial No. 590,869, published Sept. 19, 1950. Class 24.
Wyandotte Oil & Fat Company, The, to Archer-Daniels-Midland Company, Cleveland, Ohio. Hydrogenated fats intended as an ingredient or emulsifying base for lubricants. 279,996, renewed Feb. 10, 1951. O. G. Dec. 12. Class 15.
Yale & Towne Manufacturing Co., The: *See*—
Yale and Towne Mfg. Co., The.
Yale and Towne Mfg. Co., The, Stamford, Conn., to The Yale & Towne Manufacturing Co., New York, N. Y. Door fasts, lavatory latches, gate latches, etc. 277,903, renewed Dec. 2, 1950. O. G. Dec. 12. Class 25.
Yale and Towne Mfg. Co., The, Stamford, Conn., to The Yale & Towne Manufacturing Co., New York, N. Y. Letter boxes and post-office boxes. 277,990, renewed Dec. 2, 1950. O. G. Dec. 12; Class 2.
Young, F. E., & Co., Chicago, Ill. Annual publication. 534,838, Dec. 12; Serial No. 589,291. Class 38.
Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Conduit for electric wiring. 530,294, Sept. 5, 1950. Corrected. O. G. Dec. 12. Class 21.
Zenith Radio Corporation, Chicago, Ill. Radio and television receiving apparatus and parts thereof. 534,783, Dec. 12; Serial No. 590,244, published Sept. 5, 1950. Class 21.
Zion Baking Industry: *See*—
Volliva, Wilbur G.
Zion Industries, Inc.: *See*—
Volliva, Wilbur G.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal, Campbell Coal Company. 274,862, renewed Sept. 9, 1950. O. G. Dec. 12.
Coal, Anthracite. Anthracite Committee of the Department of Commerce, Commonwealth of Pennsylvania. 534,807, Dec. 12; Serial No. 553,333, published Aug. 29, 1950.
Rubber and/or resinous plastic material. The B. F. Goodrich Company. 534,659, Dec. 12; Serial No. 574,906, published Apr. 25, 1950.

CLASS 2

Bottles, Syphon. Knapp-Monarch Company. 438,535, Apr. 27, 1948. Republished Dec. 12.
Boxes, Letter, and post-office boxes. The Yale and Towne Mfg. Co. 277,990, renewed Dec. 2, 1950. O. G. Dec. 12.
Cups, Paper drinking. The Vortex Mfg. Co. 103,303, Mar. 30, 1915. Republished Dec. 12.

CLASS 4

Cleaning and polishing composition. The Cellowax Company. 444,360, Dec. 12; Serial No. 524,950, published Sept. 12, 1950.
Polish, Wax, and cleanser. O-Cedar Corp'n. 534,550, Dec. 12; Serial No. 541,769, published Sept. 19, 1950.
Wax and wax products. S. C. Johnson & Son, Inc. 534,538, Dec. 12; Serial No. 531,679, published Sept. 12, 1950.

CLASS 6

Medicinal preparations. Sandoz Chemical Works, Inc. 283,776, June 9, 1931. Amended. O. G. Dec. 12.
Resin compositions, Synthetic, and synthetic resin composition extenders. Agicide Laboratories, Inc. 530,556, Sept. 12, 1950. Corrected. O. G. Dec. 12.
Bulbs or capsules, Syphon, containing compressed or liquefied gas. Knapp-Monarch Company. 438,920–2, May 18, 1948. Republished Dec. 12.
Insecticide dispensers, Filled, with control valves. Knapp-Monarch Company. 443,764, Feb. 21, 1950. Republished Dec. 12.

CLASS 8

Cigarette cases, Combination, and pyrophoric cigarette lighters. Marathon Company. 534,566, Dec. 12; Serial No. 551,295, published Aug. 15, 1950.
Pipes, Tobacco, tobacco pouches, tobacco pipe scrapers, etc. The Parker Pipe Company Limited. 534,671, Dec. 12; Serial No. 577,448, published Aug. 29, 1950.
Pouches, Tobacco. Alfred Dunhill, Limited. 534,705, Dec. 12; Serial No. 581,712, published Aug. 29, 1950.

CLASS 11

Staging ink. C. Unbekannt. 266,605, renewed Jan. 28, 1950. O. G. Dec. 12.

CLASS 13

Cookers, Cereal, coffee urns, etc. Duke Manufacturing Co. 534,532, Dec. 12; Serial No. 561,660, published Aug. 15, 1950. (Consolidated certificate, Classes 13, 21, 32, and 34.)
Doors, Glass shower-stall, and shower-bath shields. L. H. Lehman. 279,224, renewed Jan. 13, 1951. O. G. Dec. 12.
Nut locks. The Palnut Company. 280,251, renewed Feb. 10, 1951. O. G. Dec. 12.
Nut locks. The Palnut Company. 280,261, renewed Feb. 10, 1951. O. G. Dec. 12.
Pipe unions. Jefferson Union Company, Inc. 276,141, renewed Oct. 7, 1950. O. G. Dec. 12.
Valves, Hose pinch, and parts therefor. The Mine and Smelter Supply Company. 411,337, Jan. 16, 1945. Republished Dec. 12.

CLASS 15

Hydrogenated fats intended as an ingredient or emulsifying base for lubricants. The Wyandotte Oil & Fat Company. 279,996, renewed Feb. 10, 1951. O. G. Dec. 12.
Oils, Lubricating, lubricating greases, film strength oiliness additive oils, etc. Filmite Oil Corporation. 443,790, Feb. 28, 1950. Republished Dec. 12.

CLASS 16

Ceramic overglaze colors, ceramic engobes colors, etc. Pemco Corporation. 534,633, Dec. 12; Serial No. 568,974, published Sept. 12, 1950.
Coating compositions, Surface. Dewey and Almy Chemical Company. 534,685, Dec. 12; Serial No. 579,083, published Sept. 12, 1950.
Color pigments. Minnesota Mining & Manufacturing Company. 534,603, Dec. 12; Serial No. 562,484, published Sept. 12, 1950.
Enamels, Baking. Interchemical Corporation. 534,647, Dec. 12; Serial No. 572,501, published Sept. 5, 1950.
Lacquers, paint enamels, waterproofing paint coatings, etc. J. Landau Company. 534,730, Dec. 12; Serial No. 584,461, published Sept. 12, 1950.
Paint, Cable, varnish, spar varnish, etc. Edward Smith & Co., Inc. 534,617, Dec. 12; Serial No. 565,585, published Sept. 19, 1950.
Paint enamels and quick drying varnish stains. Republic Paint & Varnish Co. 534,547, Dec. 12; Serial No. 541,459, published Sept. 12, 1950.
Paint, House, shingle stain, log cabin paint, etc. Frost Paint & Oil Corporation. 534,583, Dec. 12; Serial No. 556,628, published Sept. 5, 1950.
Paint; varnish, paint enamels, Ready-mixed, etc. Cotter & Company. 534,665, Dec. 12; Serial No. 575,892, published Sept. 12, 1950.
Paint, Waterproof structural and exterior. The Arco Company. 534,673, Dec. 12; Serial No. 577,923, published Sept. 12, 1950.
Paints, Interior and exterior. Patek Brothers, Inc. 534,539, Dec. 12; Serial No. 532,872, published Sept. 12, 1950.
Paints, varnishes, etc. Central Paint & Varnish Works, Inc. 534,630, Dec. 12; Serial No. 568,295, published Sept. 5, 1950.
Resin base finishes, Synthetic, and associated finishing materials. The Egyptian Lacquer Manufacturing Company. 534,661, Dec. 12; Serial No. 575,130, published Sept. 12, 1950.
Resinous plastic materials. American Cyanamid Company. 534,600, Dec. 12; Serial No. 562,016, published Sept. 5, 1950.
Resins and solutions of resin. Devoe & Raynolds Company, Inc. 534,577, Dec. 12; Serial No. 555,061, published Aug. 8, 1950.
Spar varnish. Tung Oil Products, Inc. 534,657, Dec. 12; Serial No. 573,997, published Sept. 5, 1950.
Zinc oxide for use in paints and ingredients thereof. The New Jersey Zinc Company. 534,629, Dec. 12; Serial No. 568,268, published Sept. 12, 1950.

CLASS 17

Cigars. J. R. Biegler. 534,767, Dec. 12; Serial No. 587,706 published Sept. 19, 1950.
Cigars. Cifuentes y Compañía, Habana, Cuba. 534,709, Dec. 12; Serial No. 582,025, published Sept. 12, 1950.
Cigars. D W G Cigar Corporation. 534,649, Dec. 12; Serial No. 573,081, published Sept. 19, 1950.
Cigars. M. Schwarz. 444,356, Dec. 12; Serial No. 510,362, published Sept. 12, 1950.
Cigars and cheroots. The S. Frieder & Sons Company. 534,635, Dec. 12; Serial No. 569,514, published Sept. 19, 1950.
Cigars and cheroots. The S. Frieder & Sons Company. 534,636, Dec. 12; Serial No. 569,516, published Sept. 19, 1950.
Cigars and cheroots. The S. Frieder & Sons Company. 534,636, Dec. 12; Serial No. 569,516, published Sept. 19, 1950.
Cigars and cheroots. The S. Frieder & Sons Company. 534,656, Dec. 12; Serial No. 573,938, published Sept. 19, 1950.
Snuff. George W. Helme Company. 534,601, Dec. 12; Serial No. 562,055, published Sept. 19, 1950.
Tobacco, Chewing. The Mid-West Tobacco Co. 534,796, Dec. 12; Serial No. 592,824, Sept. 19, 1950.
Tobacco, Plug (chewing). The American Tobacco Company. 534,792, Dec. 12; Serial No. 592,465, published Sept. 19, 1950.
Tobacco, Plug (chewing). The American Tobacco Company. 534,795, Dec. 12; Serial No. 592,745, published Sept. 19, 1950.
Tobacco, Smoking. The American Tobacco Company. 534,570, Dec. 12; Serial No. 553,061, published June 21, 1949.
Tobacco, Smoking. The American Tobacco Company. 534,645, Dec. 12; Serial No. 571,945, published Sept. 19, 1950.

CLASS 18

Antihistamine tablets. Whitehall Pharmacal Company. 534,774, Dec. 12; Serial No. 588,613, published Oct. 3, 1950.
Chemical, pharmaceutical, and biological products. Eli Lilly and Company. 279,809, renewed Jan. 27, 1951. O. G. Dec. 12.

CLASS 19

Airplanes and structural parts therefor. Lockheed Aircraft Corporation. 534,776, Dec. 12; Serial No. 588,960, published Sept. 12, 1950.
Airplanes and structural parts thereof. The Ryan Aeronautical Co. 534,556, Dec. 12; Serial No. 545,282, published Aug. 29, 1950.
Bicycles. Arnold, Schwinn & Co. 534,778, Dec. 12; Serial No. 589,191, published Sept. 19, 1950.
Bicycles, Pedal. F. Navas y Compañía. 534,691, Dec. 12; Serial No. 579,588, published Aug. 29, 1950.
Boats, Motor, cabin cruisers, open cruisers, etc. G. A. Wood. 534,527, Dec. 12; Serial No. 517,904, published Sept. 5, 1950.

Carts, Hospital. Debs Hospital Supplies, Inc. 534,729, Dec. 12; Serial No. 584,224, published Sept. 5, 1950.
Deflectors, Wind, draft, and weather, for automotive vehicles. Bonnen Manufacturing Corporation. 534,781, Dec. 12; Serial No. 589,952, published Sept. 12, 1950.
Motor vehicles, Commercial. The Metropolitan Body Company. 534,612, Dec. 12; Serial No. 564,639, published Aug. 29, 1950.
Shock absorbers, Automobile, truck, bus and railway. Monroe Auto Equipment Company. 534,595, Dec. 12; Serial No. 560,643, published Sept. 5, 1950.
Sun visor. Kromweel Mfg. Co., Inc. 534,639, Dec. 12; Serial No. 570,931, published Sept. 19, 1950.
Trailer restaurant, Automobile. Indian Trailer Corporation. 534,769, Dec. 12; Serial No. 588,030, published Sept. 12, 1950.
Upholstered chairs for transportation seating. Heywood-Wakefield Company. 534,534, Dec. 12; Serial No. 528,282, published Aug. 29, 1950.
Utility trays, Magnetically-attached, for automobiles. Polyscope Equipment & Appliance Co., Inc. 534,727, Dec. 12; Serial No. 584,153, published Sept. 5, 1950.

CLASS 21

Amplifiers, Radio. Westinghouse Electric Corporation. 534,654, Dec. 12; Serial No. 573,394, published Sept. 5, 1950.
Antenna, Television. Gadgets, Inc. 534,784, Dec. 12; Serial No. 590,266, published Sept. 5, 1950.
Antennae, Television built-in. Capehart-Farnsworth Corporation. 534,770, Dec. 12; Serial No. 588,078, published Sept. 19, 1950.
Batteries, Electric flashlight, and flashlights. Fulton Manufacturing Corporation. 534,525, Dec. 12; Serial No. 514,895, published Sept. 5, 1950.
Batteries, Electric storage, and parts thereof. Universal Battery Co. 534,631, Dec. 12; Serial No. 568,694, published Sept. 12, 1950.
Batteries, Storage. Fargo Battery & Mfg. Co. 534,837, Dec. 12; Serial No. 588,792.
Capacitors or condensers. Aerovox Corporation. 534,756, Dec. 12; Serial No. 587,307, published Sept. 5, 1950.
Coils, fans, etc., Electric. Keco Industries, Inc. 534,736, Dec. 12; Serial No. 585,450, published Sept. 19, 1950.
Combination radio, television receiver and phonograph. Admiral Corporation. 534,746, Dec. 12; Serial No. 586,261, published Sept. 5, 1950.
Communication apparatus, Interoffice and interplant telephonic. Talk-A-Phone Co. 534,827–8, Dec. 12; Serial Nos. 582,662–3.
Condensers or capacitors. Aerovox Corporation. 534,755, Dec. 12; Serial No. 587,300, published Sept. 5, 1950.
Condensers or capacitors, Electrolytic. Aerovox Corporation. 534,757, Dec. 12; Serial No. 587,308, published Sept. 19, 1950.
Conduit for electric wiring. The Youngstown Sheet and Tube Company. 530,294, Sept. 5, 1950. Corrected. O. G. Dec. 12.
Connector cords, Electrical. Clary Multiplier Corporation. 534,843, Dec. 12; Serial No. 593,786.
Electrical appliances. McGraw Electric Company. 534,773, Dec. 12; Serial No. 588,584, published Sept. 5, 1950.
Electrically operated apparatus. Duke Manufacturing Co. 534,532, Dec. 12; Serial No. 527,169, published Mar. 7, 1950. (Consolidated Certificate, Classes 13, 21, 32 and 34.)
Flashlight. Joe Lowe Corporation. 534,693, Dec. 12; Serial No. 580,077, published Sept. 19, 1950.
Flashlights. The Bridgeport Metal Goods Manufacturing Company. 534,762, Dec. 12; Serial No. 587,530, published Sept. 5, 1950.
Flashlights. The Bridgeport Metal Goods Manufacturing Company. 534,771, Dec. 12; Serial No. 588,256, published Sept. 19, 1950.
Floor cleaning, polishing and finishing machines, Electric. General Floorcraft, Inc. 534,813, Dec. 12; Serial No. 521,729.
Food mixers, Electric motor driven. Scoville Manufacturing Company. 534,718, Dec. 12; Serial No. 583,124, published Sept. 19, 1950.
Generators, Selsyn units and frequency converters. General Electric Company. 534,725, Dec. 12; Serial No. 583,976, published Sept. 19, 1950.
Headlamps, Electric, and mountings therefor. E. L. Knight. 534,546, Dec. 12; Serial No. 540,680, published Sept. 5, 1950.
Heating and cooking appliances, Electric. Hotpoint Inc. 534,765, Dec. 12; Serial No. 587,679, published Sept. 19, 1950.
Heating pads, Electric. Sunbeam Corporation. 534,785, Dec. 12; Serial No. 590,528, published Sept. 5, 1950.
Lighting fixtures, Electric. Kolite, Incorporated. 534,772, Dec. 12; Serial No. 588,497, published Sept. 19, 1950.
Microphones and equipment therefor. Altec Service Corporation. 534,754, Dec. 12; Serial No. 587,167, published Sept. 5, 1950.
Phonographs, Electrical, radio receiving sets, radio transmitting sets, etc. Remington Radio Corporation. 534,623, Dec. 12; Serial No. 567,210, published Sept. 12, 1950.
Plate assembly. L. L. Brunk. 534,768, Dec. 12; Serial No. 588,001, published Sept. 19, 1950.
Receiving apparatus, Radio and television, and parts thereof. Zenith Radio Corporation. 534,783, Dec. 12; Serial No. 590,244, published Sept. 5, 1950.
Receiving sets, Radio, and parts thereof. Khosrovshahi Co., Inc. 534,747, Dec. 12; Serial No. 586,286, published Sept. 12, 1950.
Receiving sets, Television, and combination television and radio receiving sets and phonographs. Garod Electronics Corporation. 534,760, Dec. 12; Serial No. 587,473, published Sept. 5, 1950.
Recording and reproducing machines, Electrically operated sound. Dictaphone Corporation. 534,650–3, Dec. 12; Serial Nos. 573,362–5, published Sept. 12, 1950.
Support and sterilizer, Telephone. Sterl-A-Fone Corporation of America. 534,715, Dec. 12; Serial No. 582,502, published Sept. 19, 1950.
Transmitting and receiving apparatus, Radio, etc. Lear, Incorporated. 534,632, Dec. 12; Serial No. 568,738, published Sept. 5, 1950.
Vacuum cleaners, Electric domestic. Marshall-Wells Company. 534,713, Dec. 12; Serial No. 582,312, published Sept. 19, 1950.
Wires and cables, Electrical. Anaconda Wire and Cable Company. 534,782, Dec. 12; Serial No. 590,213, published Sept. 5, 1950.

CLASS 22

Capsulated materials. R. P. Scherer Corporation. 534,608, Dec. 12; Serial No. 563,019, published Sept. 5, 1950.
Combination toy. Winchester Toy Company. 534,637, Dec. 12; Serial No. 569,545, published Sept. 5, 1950.
Deep sea rig for bottom fishing. Art Wire & Stamping Co. 534,832, Dec. 12; Serial No. 584,888.
Dolls and doll hair wave sets. The Toni Company. 534,699, Dec. 12; Serial No. 581,103, published Sept. 5, 1950.
Fish hooks. Glen L. Evans, Inc. 534,561, Dec. 12; Serial No. 550,222, published Sept. 5, 1950.
Fishing poles and parts therefor. Eder-Bailie Corporation. 534,610–11, Dec. 12; Serial Nos. 564,440–1, published Sept. 5, 1950.
Gymnasium and playground apparatus. Fred Medart Manufacturing Co. 280,236, renewed Feb. 10, 1951. O. G. Dec. 12.
Playing cards. A. C. Daman. 534,604–5, Dec. 12; Serial Nos. 562,912–13, published Sept. 5, 1950.
Playing cards. A. C. Daman. 534,606–7, Dec. 12; Serial Nos. 562,915–16, published Sept. 5, 1950.
Playing cards. New York Consolidated Card Company. 60,314, Feb. 5, 1907. Republished Dec. 12.
Rubber toys and balloons, Inflatable. W. J. Darowish. 534,582, Dec. 12; Serial No. 556,624, published Sept. 5, 1950.

CLASS 23

Accessories and parts, Automotive. Carter Carburetor Corporation. 534,520, Dec. 12; Serial No. 491,626, published Sept. 12, 1950.
Apparatus for the treatment of solids suspended in liquids. The Dorr Company. 534,552, Dec. 12; Serial No. 542,740, published Sept. 19, 1950.
Arbors used with machinery and machine tools. C. E. Overton. 534,565, Dec. 12; Serial No. 551,194, published Aug. 29, 1950.
Blades, Saw. Millers Falls Company. 534,581, Dec. 12; Serial No. 556,271, published Aug. 29, 1950.
Boring-drills, Portable, attachments for same and parts thereof; etc. The Black & Decker Manufacturing Company. 276,149, Oct. 7, 1930. Republished Dec. 12.
Bushings, Bearing. Federal-Mogul Corporation. 534,640, Dec. 12; Serial No. 571,128, published Aug. 22, 1950.
Cable cutters, Manually operated. Morse-Starrett Products Company. 534,544, Dec. 12; Serial No. 539,336, published Sept. 5, 1950.
Caulking guns, and nozzles and parts for same. Seal-Rite Caulking Co., Inc. 534,816, Dec. 12; Serial No. 533,821.
Clamps, Machinists' parallel, hack saw frames, nail sets, etc. Union Tool Company. 534,530, Dec. 12; Serial No. 523,297, published Sept. 19, 1950.
Compressors, Air. The Jaeger Machine Company. 534,753, Dec. 12; Serial No. 587,110, published Aug. 29, 1950.
Compressors, Air, and parts thereof; automotive vehicle lifts and reciprocating jacks, etc. The United States Air Compressor Company. 534,536, Dec. 12; Serial No. 529,729, published Sept. 19, 1950.
Cutter chain, cutter chain sprockets, cutter-head shoes, etc. The Cincinnati Mine Machinery Co. 534,779, Dec. 12; Serial No. 589,833, published Sept. 19, 1950.
Draw punches. J. C. Nischan. 534,616, Dec. 12; Serial No. 565,445, published Aug. 15, 1950.
Drill points; drill holders, etc. U. S. Expansion Bolt Co. 534,735, Dec. 12; Serial No. 585,260, published Aug. 15, 1950.
Dumb waiters, Non-electric, and hand power elevators. Vincent Whitney Company. 534,689, Dec. 12; Serial No. 579,366, published Sept. 12, 1950.
Engines, Aeroplane, and parts thereof. Armstrong Siddeley Motors Limited. 534,695, Dec. 12; Serial No. 580,220, published Aug. 22, 1950.
Engines, Internal combustion, and parts therefor; propeller blade adjusting mechanisms, etc. Continental Aviation and Engineering Corporation. 444,353, Dec. 12; Serial No. 499,397, published Sept. 19, 1950.

Engines, Internal combustion; mechanical power plants; mechanical drive units; etc. Continental Motors Corporation. 534,579, Dec. 12; Serial No. 555,734, published Sept. 12, 1950.
Forming machines, Paper box. Hoague-Sprague Corporation. 534,759, Dec. 12; Serial No. 587,385, published Sept. 5, 1950.
Heavy machinery and parts thereof. Pacific Car and Foundry Company. 532,083, Oct. 17, 1950. Corrected. O. G. Dec. 12.
Holder for gripping food. Maxwell-Phillip Co., Inc. 534,576, Dec. 12; Serial No. 554,682, published Sept. 5, 1950.
Holders, Paper roll. Cutter, Incorporated. 534,697, Dec. 12; Serial No. 580,289, published Sept. 12, 1950.
Ice-handling machines, Portable automatic. Lansing Sales Agency. 534,717, Dec. 12; Serial No. 582,968, published Sept. 5, 1950.
Implements, Agricultural. Marvin Landplane Co. 534,692, Dec. 12; Serial No. 579,751, published Aug. 22, 1950.
Lawn mowers. P. W. Hainke. 534,817, Dec. 12; Serial No. 547,447.
Machine tools. The Warner & Swasey Company. 534,737, Dec. 12; Serial No. 585,465, published Aug. 15, 1950.
Machines for applying closures to bottles. Tite-Cap Machine Co., Inc. 534,829, Dec. 12; Serial No. 583,961.
Motors, Outboard, industrial engines and parts thereof. Kiekhaefer Corporation. 534,620, Dec. 12; Serial No. 565,937, published Aug. 29, 1950.
Planing machines, Power driven wood; etc. S. A. Woods Machine Company. 534,555, Dec. 12; Serial No. 545,207, published Aug. 22, 1950.
Pliers, Crimping, wrenches, hooks, and spanners. Central Service Sales Company. 534,596, Dec. 12; Serial No. 560,968, published Aug. 29, 1950.
Pliers, nippers, wrenches, etc. Utica Drop Forge & Tool Corporation. 534,764, Dec. 12; Serial No. 587,664, published Sept. 12, 1950.
Pumps, Hydraulic. Georgia Iron Works Co. 534,560, Dec. 12; Serial No. 549,437, published Aug. 15, 1950.
Saws, axes, sledges, etc. Sandvikens Jernverks Aktiebolag. 534,545, Dec. 12; Serial No. 539,468, published Sept. 19, 1950.
Scissors and shears. The Clayton Manufacturing Company. 534,554, Dec. 12; Serial No. 544,702, published Sept. 5, 1950.
Screw drivers; nut drivers; and crimping tools. Lynn Products Co. 534,533, Dec. 12; Serial No. 528,212, published Aug. 29, 1950.
Sewing machines and parts thereof. A. Morguloff. 534,798, Dec. 12; Serial No. 598,313, published Sept. 5, 1950.
Sewing machines and parts thereof. The Tailor-Bird Sewing Machine Company Limited. 534,786, Dec. 12; Serial No. 590,717, published Sept. 19, 1950.
Sprayers, Power operated. Howard Hanson & Co. 534,702, Dec. 12; Serial No. 581,476, published Sept. 5, 1950.
Sprayers, Unitary hand-operated. H. D. Hudson Manufacturing Company. 534,761, Dec. 12; Serial No. 587,488, published Sept. 5, 1950.
Stapling machines. The Heller Company. 534,569, Dec. 12; Serial No. 552,774, published Aug. 29, 1950.
Sweeping, sanding, etc., machines, etc., Electric motor and internal combustion engine operated. G. H. Tennant Company. 534,541, Dec. 12; Serial No. 534,567, published Sept. 5, 1950.
Tools and parts therefor, Cylinder bore roughing and finishing. B. L. Johnson. 534,745, Dec. 12; Serial No. 586,247, published Aug. 29, 1950.
Transmissions, Speed changing. Pacific Car and Foundry Company. 534,766, Dec. 12; Serial No. 587,693, published Sept. 5, 1950.
Vehicles, namely trench excavators and snow plows. Badger Machine Company. 534,644, Dec. 12; Serial No. 571,930, published Sept. 12, 1950.
Washing racks for washing motor vehicles, Mechanically operated. Phillips Pump & Tank Company. 534,734, Dec. 12; Serial No. 585,184, published Sept. 19, 1950.

CLASS 24

Ironing machines, Flatwork. The American Laundry Machinery Company. 534,706, Dec. 12; Serial No. 581,925, published Aug. 29, 1950.
Laundry machinery. The American Laundry Machinery Company. 534,703, Dec. 12; Serial No. 581,635, published Aug. 29, 1950.
Stretchers, Curtain. Worldsbest Industries, Inc. 534,787, Dec. 12; Serial No. 590,869, published Sept. 19, 1950.

CLASS 25

Door fasts, lavatory latches, gate latches, etc. The Yale and Towne Mfg. Co. 277,903, renewed Dec. 2, 1950. O. G. Dec. 12.

CLASS 26

Cameras, motion-picture cameras, motion-picture projectors, etc. Ampro Corporation. 274,782, renewed Sept. 9, 1950. O. G. Dec. 12.
Motion-picture-projection machines and parts thereof. International Projector Corporation. 275,965, Oct. 7, 1930. Republished Dec. 12.
Tripods, projector and camera stands, camera handles, etc. The American Products Co. 534,839, Dec. 12; Serial No. 589,368.

CLASS 27

Watches. Hamilton Watch Company. 275,240, renewed Sept. 16, 1950. O. G. Dec. 12.
Watches and hairsprings. Hamilton Watch Company. 275,239, renewed Sept. 16, 1950. O. G. Dec. 12.

CLASS 28

Pins. Girl Scouts. 215,905, July 27, 1926. Republished Dec. 12.
Pins, Pledge, badges, and pendants. Delta Omicron. 277,813, renewed Nov. 25, 1950. O. G. Dec. 12.
Rings, Finger, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 268,553, renewed Mar. 18, 1950. O. G. Dec. 12.

CLASS 31

Coolers, Ice cooled or electrically operated water. Great Bear Spring Company. 310,331, Feb. 20, 1934. Amended. O. G. Dec. 12.

CLASS 32

Cabinets, Metal filing, metal storage cases, metal tabulating card files, etc. Metal Office Furniture Co. 534,526, Dec. 12; Serial No. 515,668, published June 28, 1949.
Chairs, Beauty shop. Royal Metal Manufacturing Company. 534,528, Dec. 12; Serial No. 521,030, published Aug. 29, 1950.
Chairs, Portable infant and youth. J. E. Huber. 534,818, Dec. 12; Serial No. 553,704.
Counters, Pastry, bakers' tables, setup tables. Duke Manufacturing Co. 534,532, Dec. 12; Serial No. 527,170, published Apr. 20, 1948.
Crib, Convertible. Wink, Inc. 534,752, Dec. 12; Serial No. 586,776, published Sept. 5, 1950.
Cribs, Baby, youths' beds, chiffonobes, etc. Sears, Roebuck and Co. 534,591, Dec. 12; Serial No. 559,343, published Sept. 5, 1950.
Cushions of foam rubber. The Reliable Textile Company. 534,628, Dec. 12; Serial No. 567,648, published Sept. 5, 1950.
Frames, Chromium plated metal furniture, etc. Arnolt Corporation. 534,609, Dec. 12; Serial No. 563,841, published Sept. 12, 1950.
Furniture. Holoplast Limited. 444,358, Dec. 12; Serial No. 522,661, published Sept. 19, 1950.
Lockers, Steel, steel shelving, steel cabinets, etc. Fred Medart Manufacturing Co. 280,326, renewed Feb. 10, 1951. O. G. Dec. 12.
Mattresses. Home Outfitters, Inc. 534,542, Dec. 12; Serial No. 536,899, published Aug. 29, 1950.
Mirrors, Hand, wall mirrors, and mirrors used in connection with furniture. Hamilton Glass Company, Inc. 534,701, Dec. 12; Serial No. 581,420, published Sept. 5, 1950.
Racks, Metal storage. Loxit Systems, Inc. 534,741, Dec. 12; Serial No. 585,852, published Sept. 5, 1950.
Seat cushions, All purpose. Columbia Auto Seat Cover Co., Inc. 534,723, Dec. 12; Serial No. 583,863, published Aug. 29, 1950.
Stands, Smokers'. Concord Products Corporation. 534,613, Dec. 12; Serial No. 564,936, published Aug. 29, 1950.
Tables, End, coffee tables, lounge chairs, etc. M. T. Smith. 534,726, Dec. 12; Serial No. 584,085, published Aug. 29, 1950.
Tables, Extension. The Brandt Cabinet Works, Inc. 534,529, Dec. 12; Serial No. 522,834, published Aug. 15, 1950.
Tops, Plastic, for dining and dinette tables. Meier & Pohlmann Furniture Company. 534,672, Dec. 12; Serial No. 577,580, published Aug. 29, 1950.
Venetian blinds. Kirsch Company. 534,584, Dec. 12; Serial No. 556,636, published Aug. 29, 1950.
Device in the nature of a table top. L. D. Hines. 534,589, Dec. 12; Serial No. 558,720, published Sept. 12, 1950.

CLASS 34

Tables, Steam. Duke Manufacturing Co. 534,532, Dec. 12; Serial No. 560,258, published Mar. 7, 1950. (Consolidated certificate, Classes 13, 21, 32, and 34.)

CLASS 35

Belting, Rubber, and hose. Goodyear Rubber Company. 270,388, renewed May 6, 1950. O. G. Dec. 12.
Tires, casings, and tubes, Motor-vehicle. The Pharis Tire and Rubber Company. 273,393, renewed Aug. 5, 1950. O. G. Dec. 12.

CLASS 36

Musical instruments. J. Mason. 534,674, Dec. 12; Serial No. 577,973, published Aug. 22, 1950.
Musical instruments, Percussion. The Premier Drum Company Limited. 534,724, Dec. 12; Serial No. 583,946, published Aug. 22, 1950.
Phonograph records, Mechanically grooved. Plastic Art Toy Corporation of America. 534,698, Dec. 12; Serial No. 580,672, published Aug. 22, 1950.
Phonograph records, Mechanically grooved, and phonograph records in albums. Columbia Records Inc. 534,575, Dec. 12; Serial No. 554,008, published Aug. 22, 1950.

Phonograph records. Regular grooved. Celtic Record Company, Inc. 534,732, Dec. 12; Serial No. 584,610, published Sept. 19, 1950.
Phonograph styli, Noncorrosive and wear-resisting. Permo Incorporated. 534,592, Dec. 12; Serial No. 559,427, published Aug. 22, 1950.
Player piano atachment. Winter & Company, Inc. 534,573. Dec. 12; Serial No. 553,559, published Sept. 9, 1950.
Sound records for dictating machines. Dictaphone Corporation. 534,598, Dec. 12; Serial No. 561,097, published Aug. 22, 1950.
Whistles. Girl Scouts. 215,321, July 13, 1926. Republished Dec. 12.

CLASS 37

Pencils, Lead. Eagle Pencil Company. 70,598, Sept. 15, 1908. Republished Dec. 12.
Pencils, Lead. Eagle Pencil Company. 78,317, June 7, 1910. Republished Dec. 12.

CLASS 38

Cards, Greeting, printed greeting folders, printed seals and printed decorative tags. Norcross, Inc. 534,841, Dec. 12; Serial No. 590,865.
Cartoons and statistical articles. J. Hix. 275,704, renewed Sept. 30, 1950. O. G. Dec. 12.
Catalogs and circulars. Elco Tool and Screw Corporation. 531,135, Sept. 26, 1950. Corrected. O. G. Dec. 12.
Magazine. E. Blackwell. 534,815, Dec. 12; Serial No. 534,855.
Magazine, Monthly fiction. Wings Publishing Co., Inc. 534,641, Dec. 12; Serial No. 571,477, published Sept. 5, 1950.
Periodical. Ahrens Publishing Company, Inc. 534,567, Dec. 12; Serial No. 551,422, published July 18, 1950.
Periodical. Haire Publishing Company. 534,831, Dec. 12; Serial No. 584,812.
Periodical. Hoffmann-La Roche Inc. 534,823, Dec. 12; Serial No. 575,860.
Publication, Annual. F. E. Young & Co. 534,838, Dec. 12; Serial No. 589,291.
Publication, Monthly. Technical Publishing Company. 534,821–2, Dec. 12; Serial Nos. 572,331–2.
Publication, Monthly. The Sporting Goods Publishing Company. 534,819, Dec. 12; Serial No. 565,822.
Publication, Periodical. The Irving-Cloud Publishng Company. 534,833, Dec. 12; Serial No. 588,171.
Publication, Periodical. The Standard Statistics Company. 273,673, renewed Aug. 5, 1950. O. G. Dec. 12.
Publications Monthly. Radio Magazines, Inc. 534,812, Dec. 12; Serial No. 518,323.
Section of publication. Jay Emanuel Publications, Inc. 534,830, Dec. 12; Serial No. 584,226.

CLASS 39

Athletic running pants for men. J. Hendel. 272,405, renewed July 8, 1950. O. G. Dec. 12.
Bandeaux and girdles, Combination and one-piece. Royal Worcester Corset Company. 534,694, Dec. 12; Serial No. 580,098, published Sept. 12, 1950.
Blouses, jackets, skirts, Ladies', etc. Bernard Sportswear, Inc. 534,814, Dec. 12. Serial No. 522,855.
Bowties. S. Sherman. 534,836, Dec. 12; Serial No. 588,528.
Brassières, bandeaux, girdles, etc. American Brassiere Co., Inc. 534,655, Dec. 12; Serial No. 573,462, published Sept. 12, 1950.
Clothing, Men's and women's. Gilbert of California. 534,820, Dec. 12; Serial No. 572,400.
Coats, vests, trousers, etc., for men, youths and boys. J. Shoneman, Incorporated. 278,658, renewed Dec. 23, 1950. O. G. Dec. 12.
Diapers, Flannelette. The May Department Stores Company. 278,636, renewed Dec. 23, 1950. O. G. Dec. 12.
Dresses, blouses, skirts, etc., Ladies', misses', and children's. L. Wohl & Company, Inc. 534,744, Dec. 12; Serial No. 586,214, published Sept. 12, 1950.
Dresses, Ladies'. Mary Elizabeth Frocks. 534,780, Dec. 12; Serial No. 589,861, published Sept. 12, 1950.
Dresses, Women's. A. Hochberg. 534,722, Dec. 12; Serial No. 583,757, published Sept. 12, 1950.
Girdles, corsets, and brassières. Vivette Foundations, Inc. 534,777, Dec. 12; Serial No. 589,056, published Sept. 19, 1950.
Girdles, pantie girdles, combination girdles and brassières, etc. American Lady Corset Co. 534,666, Dec. 12; Serial No. 576,187, published Sept. 12, 1950.
Girdles, pantie girdles, etc. Olga Company. 534,642, Dec. 12; Serial No. 571,570, published Sept. 19, 1950.
Gloves. The B. F. Goodrich Company. 534,659, Dec. 12; Serial No. 552,857, published May 23, 1950. (Consolidated certificate, Classes 1, 39 and 42.)
Hats and caps for men and boys. Portis Style Industries, Inc. 534,524, Dec. 12; Serial No. 514,775, published Apr. 20, 1948.
Hose supporters. A. Stein & Company. 80,685, renewed Jan. 17, 1951. O. G. Dec. 12.
Hosiery. M. K. M. Hosiery Mills, Inc. 534,731, Dec. 12; Serial No. 584,587, published Aug. 15, 1950.
Hosiery. Prestige, Inc. 534,743, Dec. 12; Serial No. 586,012, published Sept. 19, 1950.
Hosiery. Rudin & Roth. 534,742, Dec. 12; Serial No. 585,893, published Sept. 19, 1950.
Hosiery. Spurgeon Hosiery Corporation. 534,750, Dec. 12; Serial No. 586,660, published Sept. 19, 1950.
Hosiery and underwear, Men's, women's, children's. Golden Dawn Hosiery Shops, Inc. 271,381, June 3, 1930. Republished Dec. 12.
Hosiery, Ladies' and misses'. Valcort Hosiery Corporation. 409,599, Oct. 10, 1944. Republished Dec. 12.
Neckties. C. Hall, Jr. 534,924, Dec. 12; Serial No. 576,056.
Nightgowns, Ladies', chemises, and slips. Barbizon Corporation. 534,682, Dec. 12; Serial No. 578,561, published Sept. 12, 1950.
Outer pants, Children's. Hi-Line Company, Inc. 534,758, Dec. 12; Serial No. 587,330, published Sept. 19, 1950.
Outer shirts, Men's. The Manhattan Shirt Company. 534,834, Dec. 12; Serial No. 587,389.
Panties, Baby. Tampax Incorporated. 534,738, Dec. 12; Serial No. 585,688, published Sept. 12, 1950.
Pants, Children's. Donovan Enterprises, Incorporated. 534,763, Dec. 12; Serial No. 587,629, published Sept. 12, 1950.
Pants, Waterproof baby. International Latex Corporation. 534,740, Dec. 12; Serial No. 585,799, published Sept. 12, 1950.
Raincoats, suits, sweaters, Men's, etc. Marshall Field & Company. 534,751, Dec. 12; Serial No. 586,674, published Sept. 12, 1950.
Shirts, Men's outer. Frederick Loeser & Co., Inc. 444,359, Dec. 12; Serial No. 524,318, published June 8, 1948.
Shirts, T-shirts, briefs, Men's, etc. Independent Retailers Syndicate, Inc. 534,826, Dec. 12; Serial No. 579,025.
Shoes and oxfords and insoles therefor, Rubber soled canvas. Mishawaka Rubber and Woolen Manufacturing Company. 534,535, Dec. 12; Serial No. 529,671, published Aug. 22, 1950.
Shoes, Ladies' and misses'. Andrew Geller, Inc. 534,840, Dec. 12; Serial No. 590,502.
Shoes, Women's. Strawbridge & Clothier. 279,567, renewed Jan. 20, 1951. O. G. Dec. 12.
Skirts, slacks, Misses' and junior misses', etc. Tudor Square Sportswear, Inc. 534,663, Dec. 12; Serial No. 575,683, published Sept. 19, 1950.
Slippers, House. C. G. Grosvenor Shoe Co., Inc. 534,749, Dec. 12; Serial No. 586,411, published Aug. 22, 1950.
Slips, Ladies'. Velmar Lingerie Corp. 534,618, Dec. 12; Serial No. 565,831, published Sept. 12, 1950.
Sweaters, Knitted, bathing suits, etc. M. L. Friedlen. 276,801, renewed Oct. 28, 1950. O. G. Dec. 12.
Top coats, overcoats, outer-skirts, Misses', junior misses', and children's, etc. Best & Co. Inc. 534,721, Dec. 12; Serial No. 583,318, published Aug. 1, 1950.
Underwear, Men's. Lewis Knitting Company. 534,522–3, Dec. 12; Serial Nos. 512,430–1, published Sept. 5, 1950.
Underwear, Men's and boys'. P. H. Hanes Knitting Company. 534,614, Dec. 12; Serial No. 564,942, published Sept. 12, 1950.
Underwear, Women's and misses'. Sears, Roebuck and Co. 534,775, Dec. 12; Serial No. 588,895, published Sept. 12, 1950.

CLASS 40

Braids, Millinery. Armand Schwab & Co., Inc. 534,748, Dec. 12; Serial No. 586,316, published Aug. 15, 1950.

CLASS 42

Bath towels, Baby. A. Benamy. 534,622, Dec. 12; Serial No. 566,689, published Sept. 5, 1950.
Blankets. The Orr Felt & Blanket Company. 534,678, Dec. 12; Serial No. 578,215, published Sept. 5, 1950.
Blankets and automobile robes. Troy Blanket Mills. 534,679, Dec. 12; Serial No. 578,237, published Sept. 5, 1950.
Cover, Toilet lid. M. Girozan. 534,687, Dec. 12; Serial No. 579,098, published Sept. 5, 1950.
Coverlets, Woolen perambulator. Portland Woolen Mills, Inc. 534,683, Dec. 12; Serial No. 578,822, published Sept. 5, 1950.
Covers, Blanket, comforter covers, mattress covers, etc. M. Davidoff. 534,658, Dec. 12; Serial No. 574,216, published Sept. 5, 1950.
Draperies and fabric wall coverings. United Wallpaper, Inc. 534,593, Dec. 12; Serial No. 560,507, published Sept. 5, 1950.
Fabric, Knitted. Jantzen Knitting Mills Inc. 534,696, Dec. 12; Serial No. 580,242, published Sept. 5, 1950.
Fabrics in the piece. Deering Milliken & Co., Inc. 534,789–90, Dec. 12; Serial Nos. 592,258–9, published Sept. 5, 1950.
Fabrics in the piece. Dorgin Textile Corporation. 534,797, Dec. 12; Serial No. 592,885, published Sept. 5, 1950.
Fabrics, Lace, in the piece. Max Mandel Laces, Inc. 534,842, Dec. 12; Serial No. 591,176.
Fabrics, Plastic coated. The Pantasote Company. 534,578, Dec. 12; Serial No. 555,621, published Sept. 5, 1950.
Fabrics, Rubber and synthetic rubber-coated. St. Clair Rubber Company. 534,594, Dec. 12; Serial No. 560,580, published Sept. 5, 1950.

Fabrics, Textile. Wennonah Cotton Mills Company. 534,571, Dec. 12; Serial No. 553,227, published Sept. 5, 1950.
Fabrics, Textile, in the piece. Cone Export and Commission Co. 534,794, Dec. 12; Serial No. 592,700, published Sept. 5, 1950.
Fabrics, Textile, in the piece. D. B. Fuller & Co., Inc. 534,835, Dec. 12; Serial No. 588,086.
Fabrics, Textile, in the piece. D. B. Fuller & Co., Inc. 534,686, Dec. 12; Serial No. 579,094, published Sept. 5, 1950.
Fabrics, Textile, in the piece. Native Laces & Textiles, Incorporated. 534,788, Dec. 12; Serial No. 592,092, published Sept. 5, 1950.
Fabrics, Textile, in the piece. Native Laces & Textiles, Incorporated. 534,793, Dec. 12; Serial No. 592,513, published Sept. 5, 1950.
Fabrics in the piece, Textile. Onondaga Silk Co., Inc. 534,681, Dec. 12; Serial No. 579,051, published Sept. 5, 1950.
Fabrics, Woven and/or knitted. The B. F. Goodrich Company. 534,659, Dec. 12; Serial No. 574,907, published May 23, 1950. (Consolidated certificate, Classes 1, 39, and 42.)
Film, Plastic. Presto Plastic Products Co. Inc. 444,354–5, Dec. 12; Serial Nos. 500,770–1, published Sept. 5, 1950.
Luncheon cloths and table cloths. Sage Brush Originals, Inc. 534,681, Dec. 12; Serial No. 578,287, published Sept. 5, 1950.
Piece goods. Meb Export Co. Inc. 534,690, Dec. 12; Serial No. 579,506, published Sept. 5, 1950.
Piece goods. Tootal Broadhurst Lee Co. Limited. 534,564, Dec. 12; Serial No. 550,966, published Sept. 5, 1950.
Piece goods, Corduroy. A. D. Juilliard & Co., Inc. 534,791, Dec. 12; Serial No. 592,264, published Sept. 5, 1950.
Piece goods, Lace. American Textile Company, Inc. 534,627, Dec. 12; Serial No. 567,481, published Sept. 5, 1950.
Piece goods, Rayon. Plaza Mills, Inc. 534,634, Dec. 12; Serial No. 568,977, published Sept. 5, 1950.
Piece goods, Silk. H. R. Mallinson & Company, Inc. 280,320, renewed Feb. 10, 1951. O. G. Dec. 12.
Rugs, Knitted. Quaker Maid Mills, Inc. 534,540, Dec. 12; Serial No. 533,615, published Aug. 29, 1950.
Rugs, Textile. Marshall Field & Company. 534,638, Dec. 12; Serial No. 569,871, published Sept. 5, 1950.
Rugs, Textile, and carpets. Hugh Nelson-Columbia Carpet Mills, Inc. 534,660, Dec. 12; Serial No. 575,109, published Sept. 5, 1950.
Sheets, pillowcases, crib covers, etc. Georg Jensen, Inc. 534,521, Dec. 12; Serial No. 504,848, published Aug. 29, 1950.
Textile goods in the piece. Golding Bros. Company, Inc. 534,586, Dec. 12; Serial No. 557,275, published Dec. 6, 1949.
Towels. National Industrial Laundries. 534,626, Dec. 12; Serial No. 567,422, published Sept 5, 1950.
Towels, Cotton. Service Textile Company, Inc. 534,669, Dec. 12; Serial No. 576,594, published Sept. 5, 1950.
Wide lace yard goods, wide embroidered and plain fabrics, etc. Emanuel Roth Co. Inc. 534,588, Dec. 12; Serial No. 558,289, published Sept. 5, 1950.

CLASS 43

Thread, Linen. The Barbour Bros. Co. 80,824, renewed Feb. 7, 1951. O. G. Dec. 12.

CLASS 45

Beverages, Carbonated. American Beverage Corporation. 513,373, Aug. 9, 1949. Amended. O. G. Dec. 12.

CLASS 46

Apples, Fresh. Washington Sales, Inc. 534,808, Dec. 12; Serial No. 542,809, published July 5, 1949.
Bakery goods. Safeway Stores, Incorporated. 534,677, Dec. 12; Serial No. 578,168, published July 25, 1950.
Bread, rolls, cake, etc. Bell Bakeries, Inc. 534,615, Dec. 12; Serial No. 565,409, published July 18, 1950.
Butter and cottage cheese. Philadelphia Dairy Products Company, Inc. 534,590, Dec. 12; Serial No. 559,244, published July 25, 1950.
Butter and eggs. James Van Dyk Company. 271,327, renewed June 3, 1950. O. G. Dec. 12.
Cake. E. B. Dutcher. 534,643, Dec. 12; Serial No. 571,035, published July 25, 1950.
Candies, Chocolate. Aktiebolaget C. G. Nystrom & Co. 534,597, Dec. 12; Serial No. 561,064, published July 18, 1950.
Candy. The Bianchi Co. 534,558, Dec. 12; Serial No. 546,460, published July 25, 1950.
Candy. Imperial Candy Company. 534,543, Dec. 12; Serial No. 537,696, published July 25, 1950.
Candy. New England Confectionery Company. 275,592, renewed Sept. 23, 1950. O. G. Dec. 12.
Candy. Norris, Incorporated. 534,587, Dec. 12; Serial No. 557,686, published July 4, 1950.
Candy bars. Sperry Candy Company. 534,548, Dec. 12; Serial No. 541,599, published July 25, 1950.
Canned cat food. T. C. Slaughter Company. 534,720, Dec. 12; Serial No. 583,299, published July 18, 1950.
Canned corn. Minnesota Valley Canning Company. 534,680, Dec. 12; Serial No. 578,276, published July 25, 1950.
Canned foods. Clover Farm Stores Corporation. 534,624, Dec. 12; Serial No. 567,388, published July 25, 1950.
Canned fruits. Smith-Frank Packing Co. 144,937, July 19, 1921. Republished Dec. 12.
Canned fruits and canned vegetables. Frank M. Wilson Company. 378,152, May 28, 1940. Republished Dec. 12.
Canned fruits and vegetables. California Co-Operative Canneries. 189,714, Sept. 23, 1924. Republished Dec. 12.
Canned fruits and vegetables. Fernando Canning Company, Inc. 534,621, Dec. 12; Serial No. 566,222, published July 18, 1950.
Canned fruits and vegetables, jams, etc. Leverton & Company. 534,625, Dec. 12; Serial No. 567,410, published July 18, 1950.
Canned minestrone soup. Budrell Packers, Inc. 534,700, Dec. 12; Serial No. 581,247, published July 25, 1950.
Canned minestrone soup. Budrell Packers, Inc. 534,708, Dec. 12; Serial No. 582,021, published July 25, 1950.
Canned spiced cooked beef, canned corned brisket beef, etc. International Packers Commercial Co., Inc. 534,668, Dec. 12; Serial No. 576,334, published July 18, 1950.
Chewing gum. American Chicle Company. 376,475, Mar. 26, 1940. Republished Dec. 12.
Chocolate and cocoa butter. A. N. Stollwerck, Inc. 534,825, Dec. 12; Serial No. 577,751.
Coffee. Atwood Coffee Company. 534,557, Dec. 12; Serial No. 546,457, published July 25, 1950.
Coffee. Texas Coffee Company, Incorporated. 271,090, renewed May 27, 1950. O. G. Dec. 12.
Coffee, The White Turkey—Murray Hill. 534,568, Dec. 12; Serial No. 552,028, published June 6, 1950.
Coffee, tea and whole and ground spices, etc. The Woolson Spice Company. 534,688, Dec. 12; Serial No. 579,303, published July 25, 1950.
Confectionery. Fobes, Hayward & Company, Incorporated. 35,212, re-renewed Oct. 9, 1950. O. G. Dec. 12.
Confections, Frozen. The Standard Fruit Product Company. 534,719, Dec. 12; Serial No. 583,128, published July 25, 1950.
Dairy products. The Leatherwood Company, Inc. 534,716, Dec. 12; Serial No. 582,568, published July 25, 1950.
Eggs, Frozen and shell; frozen and fresh dressed poultry, etc. Davis-Cleaver Produce Company. 534,602, Dec. 12; Serial No. 562,331, published July 18, 1950.
Feed, Dairy. Triangle Grain Company Ltd. 534,585, Dec. 12; Serial No. 556,671 published July 11, 1950.
Fig bars. W. G. Voliva. 270,455, renewed May 6, 1950. O. G. Dec. 12.
Flour, Wheat. Bewley Mills. 444,167, Aug. 22, 1950. Republished Dec. 12.
Flour, Wheat. International Milling Company. 534,662, Dec. 12; Serial No. 575,471, published July 25, 1950.
Flour, Wheat. C. B. Stout. 278,014, renewed Dec. 2, 1950. O. G. Dec. 12
Flour, Wheat. C. B. Stout. 277,719, renewed Nov. 25, 1950. O. G. Dec. 12.
Flour, Wheat, and poultry and livestock feeds. The Quaker Oats Company. 534,670, Dec. 12; Serial No. 577,342, published July 18, 1950.
Foods. The Cushing Company. 534,562–3, Dec. 12; Serial Nos. 550,793–4, published July 25, 1950.
Fruits, Fresh citrus. Alturas Packing Co., Inc. 534,711, Dec. 12; Serial No. 582,204, published July 25, 1950.
Fruits, Fresh citrus. Sanger Citrus Association. 534,728, Dec. 12; Serial No. 584,156, published July 18, 1950.
Fruits, Fresh citrus. Strathmore Packing House Co. 534,648, Dec. 12; Serial No. 572,701, published July 25, 1950.
Gelatin, Edible. Swift & Company. 534,646, Dec. 12; Serial No. 572,071, published July 25, 1950.
Grapefruit, Fresh. Desert Citrus Growers Association. 534,559, Dec. 12; Serial No. 547,433, published July 25, 1950.
Grapefruit, Fresh. Meyers Fruit Company. 534,675, Dec. 12; Serial No. 578,089, published July 25, 1950.
Grapes, Fresh. Thompson Distributors. 534,714, Dec. 12; Serial No. 582,451, published July 25, 1950.
Ice cream cones. McLaren-Consolidated Cone Corporation. 274,812, renewed Sept. 9, 1950. O. G. Dec. 12.
Macaroni. Minnesota Macaroni Company. 534,704, Dec. 12; Serial No. 581,676, published July 25, 1950.
Macaroni. Skinner Manufacturing Company. 534,664, Dec. 12; Serial No. 575,788, published July 25, 1950.
Macaroni and spaghetti. The Creamette Company. 534,553, Dec. 12; Serial No. 543,900, published May 30, 1950.
Meat, Fresh. A. Michaud. 534,619, Dec. 12; Serial No. 565,836, published July 18, 1950.
Meats, Cooked; smoked meats; desserts, etc. Horn & Hardart Baking Company. 534,551, Dec. 12; Serial No. 542,126, published July 25, 1950.
Melons, Fresh, fresh deciduous fruits and fresh vegetables. Modesto Produce Packing Co., Inc. 534,580, Dec. 12; Serial No. 556,212, published July 18, 1950.

Milk, Evaporated. The United Dairy Co. 534,733, Dec. 12; Serial No. 584,935, published July 25, 1950.
Nuts, Salted. Krispy Kernels, Inc. 534,676, Dec. 12; Serial No. 578,147, published July 25, 1950.
Olive oil. V. A. D'Aprile. 534,739, Dec. 12; Serial No. 585,746, published July 25, 1950.
Pears, Fresh. Placerville Fruit Growers Association. 534,537, Dec. 12; Serial No. 531,514, published July 25, 1950.
Pickles, caviar. Juillard Fancy Foods Co. 534,531, Dec. 12; Serial No. 524,142; published July 11, 1950.
Pimento flakes. Mrs. C. B. Gentry. 263,626, renewed Nov. 5, 1949. O. G. Dec. 12.
Potatoes, Fresh. B. G. Wolter. 534,712, Dec. 12; Serial No. 582,261, published July 25, 1950.
Raisins. C. H. Scheidt. 534,572, Dec. 12; Serial No. 553,314, published Jan. 3, 1950.
Salad dressing. E. R. Hartsuch. 272,109, renewed July 1, 1950. O. G. Dec. 12.
Sauce, Meat, vegetable, and fish. J. E. Mooney, Jr. 534,667, Dec. 12; Serial No. 576,273, published July 18, 1950.
Sausage, Bologna. Karl Seller & Sons, Inc. 534,707, Dec. 12; Serial No. 581,993, published July 25, 1950.
Soya and corn oils, Blend of. Mastar Packing Company. 534,574, Dec. 12; Serial No. 553,884, published June 13, 1950.
Syrup, Sugar, corn, cane and maple base. The Burden Company. 444,357, Dec. 12; Serial No. 513,803, published July 25, 1950.
Tomatoes, Fresh. Gargiulo & Amendola, Inc. 534,710, Dec. 12; Serial No. 582,041, published July 25, 1950.
Vegetable juice cocktail. G. L. Webster Company, Inc. 534,549, Dec. 12; Serial No. 541,615, published July 25, 1950.
Vegetables, Fresh. Wauchula Cucumber and Tomato Growers Cooperative. 534,810–11, Dec. 12; Serial Nos. 583,626–7, published July 18, 1950.
Wafer bars, Filled. Delicia Chocolate & Candy Mfg. Co. Inc. 534,599, Dec. 12; Serial No. 561,299, published July 25, 1950.

CLASS 47

Wine, champagne. Val Bros. 277,508, renewed Nov. 11, 1950. O. G. Dec. 12.

CLASS 49

Cordial, Alcoholic. D. Campari. 276,979, renewed Nov. 4, 1950. O. G. Dec. 12.
Whiskey and potable spirits. Joseph E. Seagram & Sons Limited. 301,726, Mar. 14, 1933. Republished Dec. 12.

CLASS 50

Badges of nonprecious metals; uniform make-up sets; etc. Girl Scouts. 215,851, July 20, 1926. Republished Dec. 12.

CLASS 51

Cleansing cream and cold cream. The Armand Company. 275,362, renewed Sept. 23, 1950. O. G. Dec. 12.
Cleansing cream, cold cream, and toilet powder. The Armand Company. 275,363, renewed Sept. 23, 1950. O. G. Dec. 12.
Perfumes, essential oils, Artificial and synthetical. Societe Anonyme M. Naef & Cie. 280,711, renewed Feb. 24, 1951. O. G. Dec. 12.
Toilet preparations. The May Department Stores Company. 278,427, renewed Dec. 16, 1950. O. G. Dec. 12.

CLASS 100

Color harmony service for manufacturers, merchants, designers, etc. The Quantacolor Company. 534,801, Dec. 12; Serial No. 555,199, published Sept. 19, 1950.
Engineering and development services. Universal Oil Products Company. 534,802, Dec. 12; Serial No. 566,960, published Sept. 12, 1950.
Guarding of real and personal property. International Guards Union of America. 534,809, Dec. 12; Serial No. 566,941, published Sept. 19, 1950.
Medical clinical laboratory testing. A. A. J. Brandlon. 534,800, Dec. 12; Serial No. 537,133, published Sept. 19, 1950.

CLASS 101

Advertising goods and services of others through the medium of a radio program. Street & Smith Publications, Inc. 534,805, Dec. 12; Serial No. 581,038, published Sept. 12, 1950.

CLASS 103

Repairing electrical home appliances. Sears, Roebuck and Co. 534,804, Dec. 12; Serial No. 573,206, published Sept. 12, 1950.

CLASS 105

Airplane transportation and shipping of passengers, property and mail. Braniff Airways, Incorporated. 534,799, Dec. 12; Serial No. 511,593, published Sept. 19, 1950.
Travel agency service. Praco Travel Service, Inc. 534,803, Dec. 12; Serial No. 572,585, published Sept. 19, 1950.

CLASS 107

Leasing of developed motion picture films. Ideal Pictures Corporation. 534,806, Dec. 12; Serial No. 583,131, published Sept. 12, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bendix Aviation Corporation, assignee: *See*—
Noxon, Paul A.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Zwilgmeyer, Frithjof.
Fichter, Ludwig J.: *See*—
Schwarz, Bertram A., and Fichter.
General Motors Corporation, assignee: *See*—
Schwarz, Bertram A., and Fichter.
Kratzer, Herbert J., St. Louis, Mo. Variable compression ratio internal-combustion engine. Re. 23,307, Dec. 12.
Noxon, Paul A., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Line of sight stabilization. Re. 23,303, Dec. 12.
O'Neal, Grady M., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of copper phthalocyanine dyestuffs. Re. 23,304, Dec. 12.
Schwarz, Bertram A., Kokomo, Ind., and L. J. Fichter, Rockford, Ill., assignors to General Motors Corporation, Detroit, Mich. Automatic tuner. Re. 23,305, Dec. 12.
Sherwin-Williams Company, The, assignee: *See*—
O'Neal, Grady M.
Zwilgmeyer, Frithjof, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Printing and dyeing compositions and processes. Re. 23,306, Dec. 12.

LIST OF PLANT PATENTEES

Arnold-Fisher Company, assignee: *See*—
Fisher, Esther G.
Fisher, Esther G., assignor to Arnold-Fisher Company, Woburn, Mass. Rose plant. 997, Dec. 12.
Fisher, Esther G., assignor to Arnold-Fisher Company, Woburn, Mass. Rose plant. 998, Dec. 12.
Fisher, Esther G., assignor to Arnold-Fisher Company, Woburn, Mass. Rose plant. 999, Dec. 12.

LIST OF DESIGN PATENTEES

Abowitz, Jack, New York, N. Y. Shoe. 161,150, Dec. 12.
Ackerman, Elaine J., and M. J., Atlanta, Ga. Glasses case holder. 161,151, Dec. 12.
Ackerman, Michael J.: *See*—
Ackerman, Elaine J., and M. J.
American Optical Company, assignee: *See*—
Collura, Francesco.
Arnolt Corporation, assignee: *See*—
Harrison, Charles W.
Baker, Grace M.: *See*—
Baker, Kenneth C. and G. M.
Baker, Kenneth C. and G. M., San Jose, Calif. Toilet tank cabinet. 161,152, Dec. 12.
Bambach, Hans J., Philadelphia, Pa. Stocking. 161,153, Dec. 12.
Bartholomew, Robert L. R., Chester Springs, Pa. Portable electric fountain. 161,154, Dec. 12.
Benorden, Aaron H., Jesup, Iowa. Vehicle tire. 161,155, Dec. 12.
Bienen, Mitchel R., New York, N. Y. Frame for a handbag. 161,156, Dec. 12.
Browning, George, San Diego, Calif. Rotary card holder. 161,157, Dec. 12.
Bu Gay, John A., assignor to Quality Molding Co., Chicago, Ill. Shadow box. 161,158, Dec. 12.
Burros & Burros, Inc., assignee: *See*—
Burros, George.
Burros, George, assignor to Burros & Burros, Inc., New York, N. Y. Christmas tree ornament or similar article. 161,159, Dec. 12.
Burros, George, assignor to Burros & Burros, Inc., New York, N. Y. Christmas tree ornament or similar article. 151,160, Dec. 12.
Burros, George, assignor to Burros & Burros, Inc., New York, N. Y. Christmas tree ornament or similar article. 161,161, Dec. 12.
Burros, George, assignor to Burros & Burros, Inc., New York, N. Y. Christmas tree ornament or similar article. 161,162, Dec. 12.
Burros, George, assignor to Burros & Burros, Inc., New York, N. Y. Christmas tree ornament or similar article. 161,163, Dec. 12.
Buxbaum Company, The, assignee: *See*—
Westrate, Ada.
Chicago Electric Manufacturing Company, assignee: *See*—
Se Bastian, Ford.
Coates, Albert O., assignee: *See*—
Dickenson, Donald M., Jr.
Collura, Francesco, New York, N. Y., assignor to American Optical Company, Southbridge, Mass. Adjustable chair. 161,164, Dec. 12.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Crestwood Products Co. Inc., assignee: *See*—
Fisher, Frederic H.
Dickenson, Donald M., Jr., White Plains, N. Y., assignor of one-half to A. O. Coates, Providence, R. I. Dish. 161,165, Dec. 12.
Dippel, C. E., & Company, assignee: *See*—
Lebovitz, Jack.
Duncan, Alan W., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Handle for a cooking utensil. 161,166, Dec. 12.
Duncan, Alan W., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Handle for a cooking utensil. 161,167, Dec. 12.
Eastman Kodak Company, assignee: *See*—
Van Dyck, Kenneth A.
Eisenberg, Jerome C., West Orange, N. J. Desk or similar article. 161,168, Dec. 12.
Fisher, Frederic H., assignor to Crestwood Products Co. Inc., Syracuse, N. Y. Clock casing. 161,169, Dec. 12.
Fridinger, Marie, Vienna, Austria. Separable Christmas tree or similar article. 161,170, Dec. 12.
Gardner, Robert F., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Utensil holder. 161,171, Dec. 12.
Greene, Meyer, Oceanside, N. Y. Combination toy chest, desk, and love seat for children. 161,172, Dec. 12.
Gubics, Frank J., Cleveland, Ohio. Magnifying glass. 161,173, Dec. 12.
Hainke, Paul, Mower Corporation, Inc., The, assignee: *See*—
Hainke, Paul W.
Hainke, Paul W., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans. Power mowing machine. 161,174, Dec. 12.
Hallo, Moses, Rockville Centre, N. Y. Combined separable buckle and picture container. 161,175, Dec. 12.
Handler, Maurice S., New York, N. Y. Raincoat. 161,176, Dec. 12.
Harrison, Charles W., assignor to Arnolt Corporation, Warsaw, Ind. Chair frame. 161,177, Dec. 12.
Hecht, Jacob, New York, N. Y. Photographic mount. 161,178, Dec. 12.
Heisey, A. H., & Company, assignee: *See*—
Heisey, T. Clarence.
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass bowl or similar article. 161,179, Dec. 12.
Heller, Janet, Van Nuys, Calif. Fabric or similar article. 161,180, Dec. 12.
Hildebrand, Otto A., St. Louis, Mo. Infant's shoe. 161,181, Dec. 12.
Irwin, Sue U., Los Angeles, Calif. Dish rack or the like. 161,183, Dec. 12.
Hudson, William J., Los Altos, and A. W. Scheier, Woodside, Calif. Manicurist's hand rest. 161,182, Dec. 12.
Johnson, S. C., & Son, Inc., assignee: *See*—
Gardner, Robert F.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or similar article. 161,184, Dec. 12.
Riddle, Clark W., Provo, Utah. Alphabet dish set. 161,208, Dec. 12.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or similar article. 161,184, Dec. 12.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or similar article. 161,185, Dec. 12.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or similar article. 161,186, Dec. 12.

Klepper, Arthur A., deceased, by I. Klepper, executrix, Forest Hills, N. Y. Lamp reflector. 161,187, Dec. 12.

Klepper, Irina, executrix: *See*—
Klepper, Arthur A.

Klug, Rolland E., Glen Ellyn, Ill. Macerator and juice extractor. 161,188, Dec. 12.

Knibb, Leroy H., Sabot, Va. Extensible wrist watch band or similar article. 161,189, Dec. 12.

Lang, Sandy, Chicago, Ill. Tethered ball game device. 161,190, Dec. 12.

L'Anglais, Pascal, New York, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,191, Dec. 12.

Lebovitz, Jack, Pittsburgh, Pa., assignor, by mesne assignments, to C. E. Dippel & Company, New York, N. Y. Meat mold. 161,192, Dec. 12.

Lester, Harold L., Boscobel, Wis. Vehicle light. 161,193, Dec. 12.

Morroni, Peter, Leominster, Mass. Combined comb stand and tray. 161,194, Dec. 12.

Mortimer, Mary, Lansing, Mich. Combined vase and card holder. 161,195, Dec. 12.

Moskowitz, Gustave A., Washington, D. C. Toothbrush and tooth paste tube holder or similar article. 161,196, Dec. 12.

O'Connor, Thomas F., Jr., assignor to The Vulcan Radiator Company, Hartford, Conn. Radiator cover. 161,197, Dec. 12.

Onondaga Pottery Company, assignee: *See*—
L'Anglais, Pascal.

Paden, Frederick T., Washington, D. C. Snowshoe. 161,198, Dec. 12.

Perelman, Albert A., Brooklyn, N. Y., assignor to Scott Paper Company, Chester, Pa. Paper towel roll holder. 161,199, Dec. 12.

Phelps, William H., Ralston, Nebr. Doorstop. 161,200, Dec. 12.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 161,201, Dec. 12.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 161,202, Dec. 12.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,203, Dec. 12.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 161,204, Dec. 12.

Quality Molding Co., assignee: *See*—
Du Gay, John A.

Raleigh, Le Roy H., Ogden, Utah. Serving platter or similar article. 161,205, Dec. 12.

Redlich, Paula, New York, and **E. C. Steiner, Jackson Heights, N. Y.** Pot cover holder. 161,206, Dec. 12.

Rice, Earl A., Mercersburg, Pa. Combination transparent fish bowl and handle. 161,207, Dec. 12.

Riddle, Clark W., Provo, Utah. Alphabet dish set. 161,208, Dec. 12.

Rolph, Samuel F., Arlington Heights, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer casing. 161,209, Dec. 12.

Ruggles, Donald H., Tulsa, Okla. Rigid covering for awnings or like structures. 161,210, Dec. 12.

Saccoccia, Anthony, Providence, R. I. Hassock. 161,211, Dec. 12.

Scalera, Louis, Newark, N. J. Leather table top or similar article. 161,212, Dec. 12.

Scalera, Louis, Newark, N. J. Leather table top or similar article. 161,213, Dec. 12.

Scheier, Arnold W.: *See*—
Hudson, William J., and Scheier.

Scott Paper Company, assignee: *See*—
Perelman, Albert A.

Sears, Roebuck and Co., assignee: *See*—
Duncan, Alan W.

Se Bastian, Ford, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Ice cream freezer. 161,214, Dec. 12.

Se Bastian, Ford, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Air circulator. 161,215, Dec. 12

Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,216, Dec. 12

Silverman, Isador, Cleveland Heights, Ohio. Table. 161,127, Dec. 12.

Steiner, Erwin C.: *See*—
Redlich, Paula, and Steiner.

Steinke, Clayton E., Salem, Oreg. Toy truck. 161,218, Dec. 12.

Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.

Van Dyck, Kenneth A., assignor to Eastman Kodak Company, Rochester, N. Y. Projection lamp. 161,219, Dec. 12.

Van Dyck, Kenneth A., assignor to Eastman Kodak Company, Rochester, N. Y. Slide projector with screen. 161,220, Dec. 12.

Vulcan Radiator Company, The, assignee: *See*—
O'Connor, Thomas F., Jr.

Walther, John, Jr., New York, N. Y. Textile fabric. 161,221, Dec. 12.

Walther, John, Jr., New York, N. Y. Textile fabric. 161,222, Dec. 12.

Walther, John, Jr., New York, N. Y. Textile fabric. 161,223, Dec. 12.

Wendling, Mildred L., Portland, Oreg. Spoon. 161,224, Dec. 12.

Westrate, Ada, Chicago, Ill., assignor, by mesne assignments, to The Buxbaum Company, Canton, Ohio. Rubber mat or similar article. 161,225, Dec. 12.

Westrate, Ada, Chicago, Ill., assignor, by mesne assignments, to The Buxbaum Company, Canton, Ohio. Rubber mat or similar article. 161,226, Dec. 12.

Wheeler, James T., Atlanta, Ga. Stroller. 161,227, Dec. 12.

Wilkerson, Carl, Arcata, Calif. Bowl. 161,228, Dec. 12.

Wilner, David H., Los Angeles, Calif. Figure toy. 161,229, Dec. 12.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Rolph, Samuel F.

Yellin, Bernard, Chicago, Ill. Combined plant receptacle and support. 161,230, Dec. 12.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A. B. Svenska Flaktfabriken, assignee: *See*—
Blomquist, Uno O., and Wallin.

AB W. Dan Bergman, assignee: *See*—
Schreiber, Dag S.

Aasted, Kai C. S., Gentofte, Denmark. Apparatus for casting chocolate, cream and other confectionery paste. 2,533,708, Dec. 12.

Abbott, Thomas A.: *See*—
McMahon, Jerome B., and Abbott.

Accecila, Pasquale J., and D. Capaccione, Brooklyn, N. Y. Floor waxer and polisher. 2,533,706, Dec. 12.

Aconley, John, Forestville, assignor to Anglo-Canadian Pulp and Paper Mills Limited, Quebec, Quebec, Canada. Choker hook and line. 2,533,905, Dec. 12.

Acro Manufacturing Co., The, assignee: *See*—
Jacobs, Philip C., Jr.

Addressograph-Multigraph Corporation, assignee: *See*—
Gruver, John H.

Adler, Robert, Chicago, and J. G. Prentiss, Berwyn, Ill., assignors to Zenith Radio Corporation. High-gain amplifier tube. 2,533,750, Dec. 12.

Affiliated Gas Equipment, Inc., assignee: *See*—
Higley, Frank R.

Agnew, George H.: *See*—
McKeever, Charles H., and Agnew.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Goldblatt, Leo A., and Oldroyd.

Ainsworth, Chester D., Wollaston, and G. E. Jansson, North Quincy, Mass., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Circuit breaker with lever type current connection. 2,533,545, Dec. 12.

Air-A-Feed Equipment, Inc., assignee: *See*—
Moore, Edgar S.

Air Reduction Company, Incorporated, assignee: *See*—
Clinton, Edward J., Jr., and Flynn.

Akeley, Lloyd T., Lynn, Mass., assignor to General Electric Company. Top burner electric range automatic cooking. 2,534,097, Dec. 12.

Akers, Ruth W., Freeport, Tex.; now by decree of marriage Ruth Akers Nielsen. Dress form. 2,533,906, Dec. 12.

Akron Brass Mfg. Company, Inc., assignee: *See*—
Lee, Floyd J.

Aktiengesellschaft Brown, Boveri & Cie., assignee: *See*—
Wideröe, Rolf.

Aladdin Industries, Incorporated, assignee: *See*—
Jacob, Frederick N., Stout, and Miller.

Alamagny, Marcel A. C., Saint-Cloud, France. Automobile vehicle. 2,533,752, Dec. 12.

Albaugh, Frederick W., Richland, Wash., assignor to Union Oil Company of California, Los Angeles, Calif. Water drive. 2,533,546, Dec. 12.

Albers, Joseph A., Cheviot, Ohio. Automatic secretarial reminder. 2,533,751, Dec. 12.

Alfano, Gustave, Long Island City, N. Y. Reel for electrical cables. 2,533,341, Dec. 12.

Allan, Benjamin W., and F. O. Rummery, Baltimore, Md. Electrolytic production of gelatinous titanium hydrate nuclei. 2,533,208, Dec. 12.

Allen, William H., Teaneck, and M. G. Hall, Rutherford, assignors to Empire Box Corporation, Garfield, N. J. Egg carton. 2,533,340, Dec. 12.

Allied Chemical & Dye Corporation, assignee: *See*—
Gilbert, Everett E.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Ainsworth, Chester D., and Jansson.
Boock, Alfred C., and Erskine.
Chipman, John F.
Erskine, Douglas W.
Norelius, Emil F.
Peter, Charles R.
Volgovskoy, Boris.

Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Lamm, Uno.

American Aggregate Company, assignee: *See*—
Ryner, Arthur.

American Cyanamid Company, assignee: *See*—
Cresswell, Arthur.

American Engineering Corporation, assignee: *See*—
Hollingsworth, Robert Q.

American Laundry Machinery Company, The, assignee: *See*—
Brenner, Robert W., and Petre.

American Ore Reclamation Company, assignee: *See*—
Urban, William J.

American Steel and Wire Company of New Jersey, The, assignee: *See*—
Elder, Flint C.
Glonet, Leo A.

American Telephone and Telegraph Company, assignee: *See*—
Avery, Robert C.

Ames, Robert G., assignor of one-half to G. W. Williams, and one-quarter to S. Ames, Burlingame, Calif. Finishing tool for corner tape. 2,533,209, Dec. 12.

Ames, Stanley, assignee: *See*—
Ames, Robert G.

Amos, Stephen E., Wilmington, Del., and D. C. Jeffrey, Jr., Richmond, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Constant torque winding means for slitting machines. 2,533,307, Dec. 12.

Anaconda Wire and Cable Company, assignee: *See*—
Lorenz, Leo R., and Patterson.

Anderson, Eric, assignor of one-half to W. H. Norris, Trenton, N. J. Pressure seal for flanged pipes. 2,533,868, Dec. 12.

Anderson, Frank H., Minneapolis, Minn. Pressure reducer and air strainer. 2,533,907, Dec. 12.

Anderson, John E., Portland, assignor to United Aircraft Corporation, East Hartford, Conn. Variable pitch propeller. 2,533,415, Dec. 12.

Anderson, Marshall N., assignor to Sellstrom Manufacturing Company, Chicago, Ill. Ventilated lens ring. 2,533,547, Dec. 12.

Anderson, V. D., Company, The, assignee: *See*—
Weigel, Frederick W.

Andrews, Donald H., Baltimore, Md., assignor to Research Corporation, New York, N. Y. Radio signal detector. 2,533,908, Dec. 12.

Andrews, Fred W.: *See*—
Spanel, Abraham N., Andrews, and Owen.

Anglo-Canadian Pulp and Paper Mills Limited, assignee: *See*—
Aconley, John.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Howes, Donald A., and Tait.

Annin, Douglas H., Oakland, Calif., assignor, by mesne assignments, to Grove Regulator Company. Compartment testing apparatus. 2,534,158, Dec. 12

Anson, Ira, Sioux City, Iowa. Adjustable hay feed rack. 2,533,984, Dec. 12.

Anthes, Lawrence L., Toronto, Ontario, Canada. Adjustable reading and writing table for furniture. 2,533,416, Dec. 12.

Antia Products, assignee: *See*—
Losquadro, Michael A.

Apker, LeRoy, Niskayuna, and J. Kahnke, Schenectady, N. Y., assignors to General Electric Company. Ultra high frequency wave generator. 2,534,098, Dec. 12.

Arabian American Oil Company, assignee: *See*—
Van Dornick, Edward M.

Arenberg, Albert L., Highland Park, R. G. Nordquist, Glen Ellyn, and O. W. Rahn, assignors to Patent License Corporation, Chicago, Ill. Fixture assembly for elongated tubular lamps. 2,533,661, Dec. 12.

Arliss, Charles R.: *See*—
Richards, Frank A., and Arliss.

Armco Steel Corporation, assignee: *See*—
Carpenter, Victor W.
Oppenheimer, Everett W., and Lucas.

Armitage, Joseph B., Wauwatosa, and O. W. Barker, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Machine tool control mechanism. 2,533,753, Dec. 12.

Armour and Company, assignee: *See*—
Groeber, Otto W., and McCord.

Armstrong Cork Company, assignee: *See*—
Dill, Charles E.

Arnold, Chester L., Berkeley, Calif., assignor to Stauffer Chemical Company. Herbicidal compositions. 2,534,099, Dec. 12.

Aronstein, Joseph and M., New York, N. Y., and J. A. Solomon, Hampton, Va. Multicolor printing on flocked area of fabric. 2,533,985, Dec. 12.

Aronstein, Mitchell: *See*—
Aronstein, Joseph and M., and Solomon.

Arrow-Hart & Hegeman Electric Company, assignee: *See*—
Dietrich, Walter L.

Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Schleicher, Harold E.

Ash, Charles S., Milford, Mich. Vehicle wheel. 2,533,707, Dec. 12.

Askania Regulator Company, assignee: *See*—
Glass, Paul, and Prem.

Associated Industries, Inc., assignee: *See*—
Jenkins, James L.

Ateliers Neyret-Beylier & Piccard-Pictet, assignee: *See*—
Danel, Pierre F.

Atkins, Samuel L.: *See*—
Gedat, Curt R., Schimmel, and Atkins.

Atterbury, Grosvenor, assignor to Precast Building Sections, Inc., New York, N. Y. Apparatus and method for filling molds. 2,533,986, Dec. 12.

Auburn Research Foundation, assignee: *See*—
Harris, Hubert, and Ware.

Automatic Electric Laboratories, Inc., assignee: *See*—
Bartelink, Everhard H. B.
McCreary, Harold J.

Automatic Washer Company, assignee: *See*—
Emmert, Clayton F., and Stouder.

Avery, Robert C., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Tandem switching system. 2,533,342, Dec. 12.

Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Grant, Gordon A., Glen, and Barber.

Bac, Fernand G., Paris, France. Electric connecting device. 2,533,343, Dec. 12.

Backer, Willem A. J., Haarlem, assignor to N. V. Nederlandsche Vliegtuigenfabriek Fokker, Amsterdam, Netherlands. Cockpit cover for airplanes. 2,533,548, Dec. 12.

Baer, Massimo, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Sulfonation of polystyrene. 2,533,210, Dec. 12.

Baer, Massimo, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Sulfonating polystyrene. 2,533,211, Dec. 12.

Bahoosh, Samuel, assignee: *See*—
Turley, Jerome W.

Bahr, Gustave F., Fairfield, assignor to The Bead Chain Manufacturing Co., Bridgeport, Conn. Double-ended terminal. 2,533,987, Dec. 12.

Bak, Albert G., Palatine, Ill. Fade-out shutter for attachment to motion-picture cameras. 2,533,909, Dec. 12.

Baker, James N.: *See*—
Wilhide, Glenn C., Baker, and Holford.

Ballard, Seaver A., Orinda, and B. P. Geyer, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Purification process. 2,533,754, Dec. 12.

Balmer, James G., Jr., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Combined vehicle bumper guard and support structure for turn signal indicators or the like. 2,533,212, Dec. 12.

Bamberger, Alfred A., Flushing, assignor to Speedo Manufacturing Co., Inc., New York, N. Y. Precision hammer. 2,533,988, Dec. 12.

Bange, George E., Wichita, Kans., assignor to Bendix Aviation Corporation, New York, N. Y. Speed controlled coupling. 2,533,755, Dec. 12.

Barbaras, Glen D.: *See*—
Schaeffer, George W., and Barbaras.

Barber-Colman Company, assignee: *See*—
Drake, Russell P.

Barber, Richard J.: *See*—
Grant, Gordon A., Glen, and Barber.

Barknecht, Fred W., Palos Heights, Ill., assignor to International Harvester Company. Machine for beveling notches in coulter disks. 2,533,756, Dec. 12.

Barfod, Frederik: *See*—
Wirth, Emil O., and Barfod.

Barfus, Irving, Brooklyn, N. Y. Relief wheel for automotive vehicles. 2,533,869, Dec. 12.

Barker, Orrin W.: *See*—
Armitage, Joseph B., and Barker.

Barnard, Harvie, Clinton, Iowa, and E. M. Wharton, Bound Brook, N. J., assignors to the United States of America as represented by the Secretary of War. Consistency meter. 2,533,213, Dec. 12.

Barnes, Robert A., Spicer, Colo. Articulated power-operated hay-rake. 2,533,417, Dec. 12.

Barovick, Rudolph, assignee: *See*—
Bongiorni, James.

Barr, Jesse A., Highland Park, Calif. Portable battery operated fluorescent hand lantern. 2,533,910, Dec. 12.

Barringer, Gordon L.: *See*—
Lee, Charles M., and Barringer.

Bartelink, Everhard H. B., Bronxville, N. Y., assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic trunk selecting system for radio telephone stations. 2,533,662, Dec. 12.

Bates, Henry A., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Enamel and preparing the same. 2,533,911, Dec. 12.

Batesville Casket Company, The, assignee: *See*—
McEwan, James J.

Batt, George H.: *See*—
Flero, George W., Seeland, and Batt.

Batt, Walter E., Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Lead-acid type electric accumulators. 2,533,709, Dec. 12.

Baumgartner, John G., Oswego, assignor to Maybelline Company, Chicago, Ill. Container for cosmetics. 2,534,100, Dec. 12.

Bayer, William F., Leonia, N. J. Stone setting tool. 2,533,870, Dec. 12.

Beach, Clarence E., Binghamton, N. Y. Variable signal transmitting station. 2,533,344, Dec. 12.

Bead Chain Manufacturing Co., The, assignee: *See*—
Bahr, Gustave F.

Bean, Frederic R., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of c-alkyl hydroquinones and c-alkyl p-aminophenols. 2,533,203, Dec. 12.

Beauchemin, Arsene, Montreal, Quebec, Canada. Sanitary container. 2,533,757, Dec. 12.

Beckwith Manufacturing Company, assignee: *See*—
Somersall, William W.

Beerbower, Alan, Baltimore, Md., and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Antioxidants for greases and similar materials. 2,533,989, Dec. 12.

Bell Aircraft Corporation, assignee: *See*—
Bell, Lawrence D.
Nolan, Terence M., and Gasper.

Bell, Lawrence D., Eggertsville, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Power-driven wheelbarrow. 2,533,549, Dec. 12.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Jenkins, Reginald T.
Kille, Lindley A.
Lamberty, Frederick R., Martins, and Wichman.
Lukacs, Joseph J., and Strickler.
Munson, Wilden A.
Richard, Charles D.
Samuel, Arthur L.
Young, William R., Jr.

Bellamy, William: *See*—
Sharp, Oscar, and Bellamy.

Bels, Basil A., Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Resonant electrical arrangement. 2,533,912, Dec. 12.

Bendix Aviation Corporation, assignee: *See*—
Bange, George E.
Leininger, James E., and Seaton.
Wirth, Emil O., and Barfod.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Eaton, Wilfred A.

Bennett, Claude L., assignee: *See*—
Bennett, John E.

Bennett, John E., assignor to C. L. Bennett, Elgin, Ill. Toothbrush having powder pickup grooves. 2,533,345, Dec. 12.

Benoit, Dona J., Pawtucket, R. I. Attaching a leader to a hook. 2,533,418, Dec. 12.

Berger, Arthur J., New York, N. Y. Fog resistance testing apparatus. 2,533,214, Dec. 12.

Bernardi, Dominic J., New York, and F. A. Dostal, Maspeth, assignors to Interchemical Corporation, New York, N. Y. Manufacture of arginine base. 2,533,215, Dec. 12.

Betten, Philip, and M. Lehrhaupt, Brooklyn, N. Y. Meat holding device. 2,533,308, Dec. 12.

Better, Bernard, and J. W. Lehde, Jr., assignors to Scully-Jones & Company, Chicago, Ill. Floating holder. 2,533,758, Dec. 12.

Biehler, Louis A., Stanhope, assignor to Sintering Machinery Corporation, Netcong, N. J. Integrating mechanism. 2,533,710, Dec. 12.

Bituminous Coal Research, Inc., assignee: *See*—
Yellott, John I.

Bixer, Edmond P., New York, N. Y. Curtain construction. 2,533,216, Dec. 12.

Black & Decker Manufacturing Company, The, assignee: *See*—
Wilhide, Glenn C., Baker, and Holford.

Blackwell, Lawrence F., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Tea cutting and feeding mechanism. 2,533,550, Dec. 12.

Blake, Ralph K., Rochester, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Silver halide developer compositions containing polyoxyalkylene ethers of hexitol ring dehydration products. 2,533,990, Dec. 12.

Blakely, Robert T., Amityville, assignor to International Business Machines Corporation, New York, N. Y. Card handling mechanism. 2,533,309, Dec. 12.

Blanchard, Benjamin B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Driver actuating mechanism for fastening inserting machines. 2,533,419, Dec. 12.

Blaw-Knox Company, assignee: *See*—
Mueller, Paul M.

Blitz, Daniel, Princeton, N. J., assignor to Radio Corporation of America. Radio distance measuring system. 2,533,871, Dec. 12.

Block & Anderson Limited, assignee: *See*—
Gerlach, Hugo.

Blomquist, Uno O., Vasteras, and S. W. Wallin, Jonkoping, assignors to A. B. Svenska Flaktfabriken, Stockholm, Sweden. Dust extracting device. 2,533,991, Dec. 12.

Blumfield, Joseph, Los Angeles, Calif. Tufting machine. 2,533,420, Dec. 12.

Bobard, Emile, Beaune, France. Wheeled mower and drive therefor. 2,533,759, Dec. 12.

Bodnar, Joseph, assignor to W. Sutherland and G. DiPaola, Detroit, Mich. Rotatable steam joint. 2,533,421, Dec. 12.

Bonadio, George A., Watertown, N. Y. Electronic discharge tube control. 2,533,760, Dec. 12.

Bongiorni, James, assignor of thirty per cent to R. Baronick, Washington, Pa. Meat block scraping machine having spring pressed supporting wheels. 2,534,101, Dec. 12.

Boock, Alfred C., and D. W. Erskine, Springfield, Ill., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor control mechanism. 2,533,872, Dec. 12.

Booth, John S., Dallas, Tex. Refrigerated vegetable display case and spray system. 2,533,913, Dec. 12.

Bopp, Cecil W.: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Borden Company, The, assignee: *See*—
Corwin, John F., Calhoun, and Buzzo.

Borg-Warner Corporation, assignee: *See*—
La Barre, Dwight.

Bouligny, R. H., Inc., assignee: *See*—
Rowe, Oliver R., and Stolp.

Boyce, Leonard D., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Engine starting device. 2,533,551, Dec. 12.

Braddon, Frederick D., Babylon, N. Y., assignor to The Sperry Corporation. Gyrovertical slaving system. 2,533,217, Dec. 12.

Bradfield and Bidwell, Inc., assignee: *See*—
Van den Broek, Jan A.

Brady, George W., Upper Montclair, and C. W. Chillson, Caldwell, N. J., assignors to Curtiss-Wright Corporation. Dual rotation propeller. 2,533,346, Dec. 12.

Brandenburg, Edwin H., Lakewood, Ohio. Permanent magnet chuck. 2,533,348, Dec. 12.

Brandt, Edward A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Blank feeding and locating mechanism for punch presses. 2,533,914, Dec. 12.

Brandvein, Walter S., Waterbury, Conn. Curtain. 2,533,873, Dec. 12.

Braun, Karl J., Glenbrook, Conn., assignor to Control Instrument Company, Inc., Brooklyn, N. Y. Card delivery mechanism for sorting machines. 2,533,422, Dec. 12.

Breeze Corporations, Inc., assignee: *See*—
Knezo, John, Jr.

Brenner, Robert W., Foster's, and J. R. Petre, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Garment finishing apparatus. 2,533,761, Dec. 12.

Breuer Electric Mfg. Company, assignee: *See*—
Lanter, Clarence W.

Bridgeman, Walter A.: *See*—
Newhall, Joseph F. P., and Bridgeman.

Bridges, John W., Oklahoma City, Okla. Vibrating apparatus. 2,533,711, Dec. 12.

Brinster, John F., Princeton, N. J., and J. Larsen, Jackson, Mich., assignors to Research Corporation, New York, N. Y. Signal converter for multisignal transmission systems. 2,533,552, Dec. 12.

British Mechanical Producutions Limited, assignee: *See*—
Fuke, Francis C.

Brock, Frederick W., Tompkinsville, N. Y., assignor to Keystone View Company, Meadville, Pa. Triple slide holder device for stereoscopic slides. 2,533,347, Dec. 12.

Brockway Company, The, assignee: *See*—
Guarnaschelli, Stephen.

Brooker, Leslie G. S.: *See*—
Dent, Samuel G., Jr., and Brooker.
Keyes, Grafton H., and Brooker.

Brooks, Chester A., Mission, Kans. Rotatable closure structure having yieldable locking means. 2,533,915, Dec. 12.

Brooks, Chester A., Mission, Kans. Lock washer. 2,533,916, Dec. 12.

Brooks, Edward H., Jr., assignee: *See*—
Brooks, Edward H., Sr.

Brooks, Edward H., Sr., assignor of one-half to E. H. Brooks, Jr., Portland, and one-half to E. H. Thompson, Cape Elizabeth, Maine. Feed box for fiber scouring machines. 2,533,218, Dec. 12.

Brouwer, Clarence J., and I. J. Drake, Grand Rapids, Mich. Starting block. 2,534,159, Dec. 12.

Brown, Cecil F.: *See*—
Hansen, Henry, and Brown.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Levesque, George N.

Brown, Walter J.: *See*—
Picking, Jay W., and Brown.

Browning, William C.: *See*—
Salvesen, Jörgen R., and Browning.

Brownsey, Oscar E.: *See*—
Gierke, Walter W., Brownsey, and Frye.

Brugmann, Frank, assignor of one-half to Paul Goss, Greeley, Colo. Flywheel rotating tool. 2,533,762, Dec. 12.

Brunjes, Austin S., Plandome, assignor to The Lummus Company, New York, N. Y. Ammonia recovery unit. 2,533,992, Dec. 12.

Bryans, Harry C., Three Rivers, assignor to Canadian International Paper Company, Montreal, Quebec, Canada. Roll crimping machine. 2,533,993, Dec. 12.

Buckeye Steel Castings Company, The, assignee: *See*—
Johnson, George T.

Bucklus, Albert O., Cleveland, and D. Willison, Shaker Heights, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Journal box. 2,533,917, Dec. 12.

Buckley, Francis T., and G. R. Sido, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Laminated glass interlayer. 2,534,102, Dec. 12.

Bullard Clark Company, The, assignee: *See*—
Moe, J. Edgar.

Bulleid, Oliver V., assignee: *See*—
Lynes, Lionel.

Bunch, Joseph M., Ferguson, Mo. Mechanism for opening and closing doors. 2,533,423, Dec. 12.

Burger, Charles H., assignor to Dermetics, Inc., New York, N. Y. Bottle and holder therefor. 2,533,349, Dec. 12.

Burgess, Everett H.: *See*—
Lehane, Timothy J., and Burgess.

Burnett, Goldie M., assignor of one-half to R. L. Burnett, Sweetwater, Tex. Chain tightening device. 2,533,918, Dec. 12.

Burnett, Roy L., assignee: *See*—
Burnett, Goldie M.

Burnight, Thomas R., and J. F. Clark, Jr., Washington, D. C. Keying circuit. 2,533,219, Dec. 12.

Burns, George A., Muskegon, Mich. Trailer steering mechanism. 2,533,553, Dec. 12.

Burns, Jabez, & Sons, Inc., assignee: *See*—
Willenborg, Walter J.

Burr, Ned, assignor to Chicago Cardboard Company, Chicago, Ill. Folding display. 2,533,874, Dec. 12.

Buzzo, Thomas M.: *See*—
Corwin, John F., Calhoun, and Buzzo.

Byam, Peter M.: *See*—
Matialtis, Victor E., and Byam.

Byerly, Oliver M., Chicago, assignor to W. E. Hausheer, Evanston, Ill. Package and producing same. 2,533,554, Dec. 12.

Byers, Ralph J., assignor to Chicago Mill and Lumber Company, Chicago, Ill. Crate. 2,533,663, Dec. 12.

C. A. V. Limited, assignee: *See*—
Curzon, Thomas.

Cacciotti, Vincent E., Troy, N. Y. Quick detachable battery connector. 2,533,763, Dec. 12.

Cadot, Henry M., Greenville, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Thermosetting adhesive composition and laminate. 2,533,994, Dec. 12.

Caesar, Philip D., Wenonah, and A. N. Sachanen, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Heterocyclicthiol resins. 2,533,764, Dec. 12.

Cahill, Gerald, Vero Beach, Fla. Juice extraction apparatus and method. 2,533,350, Dec. 12.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Ternary interpolymers comprising acrylonitrile and N-substituted malemic acids. 2,533,204, Dec. 12.

Calhoun, John R.: *See*—
Corwin, John F., Calhoun, and Buzzo.

Calico Printers' Association Limited, The, assignee: *See*—
Lantz, Louis A., Schofield, and Spinner.

California Research Corporation, assignee: *See*—
Dressler, Russell G.

Calumet Steel Castings Corporation, assignee: *See*—
Zikmund, Bohumil A.

Calnetian Blinds, Incorporated, assignee: *See*—
Walker, Charles D.

Campbell, John M., Fairmont, W. Va., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Exhaust valve with leak detector. 2,533,712, Dec. 12.

Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Three-phase bimetal thermal relay. 2,534,103, Dec. 12.

Canadian International Paper Company, assignee: *See*—
Bryans, Harry C.

Canales, Joe J., Uvalde, Tex. Weighted drill for cutting post holes in rock. 2,533,555, Dec. 12.

Capaccione, Dominick: *See*—
Acocella, Pasquale J., and Capaccione.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for stripping multilayer film. 2,533,424, Dec. 12.

Carey-McFall Company, assignee: *See*—
Stuber, Walter J., and Di Ienno.

Carey, Philip, Manufacturing Company, The, assignee: *See*—
Greider, Harold W., and Leibrook.

Cary, Francis C.: *See*—
Hubinette, Sven E., and Cary.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Chase, Sherman.

Carnell, Paul H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Polymerization of allyl chloride and using the product as a vave lubricant. 2,533,425, Dec. 12.

Carpenter, Fred A., Berkeley, Calif. Pressure water system. 2,533,428, Dec. 12.

Carpenter, Joseph D., Ottumwa, Iowa. Wing fold mechanism. 2,533,429, Dec. 12.

Carpenter, Victor W., Franklin, Ohio, assignor to Armco Steel Corporation. Formation of glass film on silicon steel by strip annealing. 2,538,351, Dec. 12.

Carrette, Maurice, Lille, France, assignor to Luwa A.-G., Zurich, Switzerland. Stop mechanism for spinning frames. 2,533,310, Dec. 12.

Carroll, Burt H., and J. Spence, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsions sensitized with supersensitizing combinations of acid carbocyanine dyes and styryl bases. 2,533,426, Dec. 12.

Carroll, Burt H., assignor to Eastman Kodak Company, Rochester, N. Y. Supersensitization of meso-aryl carbocyanine dyes. 2,533,427, Dec. 12.

Carter, Austin S., Chelan, Wash. Foldable boat. 2,533,220, Dec. 12.

Carter Carburetor Corporation, assignee: *See*—
Boyce, Leonard D.
Moseley, James T. W.

Carudo, Armand G., Providence, R. I. Fuel oil tank intake box. 2,533,766, Dec. 12.

Cass Products Company, assignee: *See*—
Weiffenbach, Everell C.

Cavalieri, Emilio, assignor to S. A. Macchine per l'Industria Dolciaria Carle & Montanari, Milan, Italy. Intermediate-pulverizing and mixing machine for chocolate masses. 2,533,875, Dec. 12.

Cayce, Ernest D., Santa Barbara, Calif. Toy tractor having improved track guiding means. 2,533,556, Dec. 12.

Celanese Corporation of America, assignee: *See*—
Lomartire, John.
Steiding, John B.

Central Commercial Industries, Inc., assignee: *See*—
Langer, Nicholas.

Centre National de la Recherche Scientifique, assignee: *See*—
Leroy, Robert P.

Cerny, Joseph J., Chicago, Ill. Electrical resistor construction. 2,533,876, Dec. 12.

Chain Belt Company, assignee: *See*—
Devine, Bernard F., and Hilkemeier.
Viall, George K., and Lindow.

Chamberlin Company of America, assignee: *See*—
Sullivan, John G., and Smith.

Chamberlin, Richard H., San Bruno, and H. E. Sorg, Redwood City, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Vacuum condenser. 2,533,713, Dec. 12.

Champion Paper and Fibre Company, The, assignee: *See*—
Stoddard, William B., Jr.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chapin, Chester M., St. Louis, Mo. Steam electric pressing iron. 2,533,995, Dec. 12.

Chapman, Aurelius F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coated, nonfibrous regenerated cellulose sheet wrapping material and making same. 2,533,557, Dec. 12.

Chapman, Harvey A., and E. J. Livingston, assignors to Kolstad Company, Minneapolis, Minn. Case carrying hand truck. 2,533,352, Dec. 12.

Chase Bag Company, The, assignee: *See*—
Clark, Converse V.

Chase, Sherman, Evergreen Park, Ill., assignor to Carnegie-Illinois Steel Corporation. Method and apparatus for analyzing flue gas. 2,533,430, Dec. 12.

Chausson, Gaston, assignor to Societe Anonyme des Usines Chausson, Asnieres, France. Tank for airplanes and similar applications. 2,533,431, Dec. 12.

Chauveau, Louis, Paris, France, assignor to Societe Francaise Radio-Electrique. Selector apparatus for alarm signals. 2,533,765, Dec. 12.

Chelborg, Rudolph, Maplewood, and L. W. Young, Elizabeth, N. J., assignors to The Linde Air Products Company. Machine for cutting tapered ingots. 2,533,311, Dec. 12.

Chenicek, Joseph A., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Metal deactivators. 2,533,205, Dec. 12.

Chicago Cardboard Company, assignee: *See*—
Burr, Ned.

Chicago Mill and Lumber Company, assignee: *See*—
Byers, Ralph J.

Chicago Pneumatic Tool Company, assignee: *See*—
Maurer, Spencer B., and Ebert.

Chikan, Anthony, New York, N. Y. Radio time tuning device. 2,533,877, Dec. 12.

Chillson, Charles W.: *See*—
Brady, George W., and Chillson.

Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Internal-combustion engine and connecting rod structure therefor. 2,533,558, Dec. 12.

Chipman, John F., South Weymouth, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pneumatic interlocking device for preventing improper closing of a circuit breaker. 2,533,559, Dec. 12.

Chiville, Leslie L., Jr., Carpentersville, Ill. Hydraulic planetary transmission. 2,534,104, Dec. 12.

Christiansen, Milton J., and R. J. Detuno, Chicago, Ill., and H. W. Garbe, Madison, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for manufacturing radio tubes. 2,533,919, Dec. 12.

Christie, Ralph C.: *See*—
Pratt, Elbert H., and Christie.

Chrysler Corporation, assignee: *See*—
La Brie, Ludger E.

Churchill, Wilmer H., Sangus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Receptacle and closure fastener therefor. 2,534,105, Dec. 12.

Cicchetti, Eugene G., assignee: *See*—
Turley, Jerome W.

Ciringione, Rosaria, Forest Hills, N. Y. Bust support. 2,533,312, Dec. 12.

Clark, Albert F., Los Angeles, and A. Shapiro, Monrovia, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Pumping viscous petroleum. 2,533,878, Dec. 12.

Clark, Converse V., Toledo, Ohio, assignor to The Chase Bag Company, New York, N. Y. Web former and cutter for satchel bottom paper bags. 2,533,433, Dec. 12.

Clark, Don A., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Hose reel. 2,533,432, Dec. 12.

Clark, John F., Jr.: *See*—
Burnight, Thomas R., and Clark, Jr.

Clark, Paul P., assignee: *See*—
Kutik, William R., Jr.

Clarkson, Alick, Itasca, assignor of one-half to Vapor Heating Corporation, Chicago, Ill. Oil burner with radial fuel nozzles. 2,534,160, Dec. 12.

Clarkson, Robert J., Winnsboro, S. C., assignor to United States Rubber Company, New York, N. Y. Fabric slitting machine. 2,533,996, Dec. 12.

Cleland, James E., and J. B. Longenecker, Granite City, Ill., assignors to Union Starch & Refining Company, Columbus, Ind. Caramel color separation. 2,533,221, Dec. 12.

Cleveland-Detroit Corporation, assignee: *See*—
Oliveau, John V.

Clifton, Richard T., Detroit, Mich. Hair curler. 2,533,434, Dec. 12.

Clinton, Edward J., Jr., Chatham, and J. J. Flynn, Jersey City, N. J., assignors to Air Reduction Company, Incorporated. Starting rod feed device for gas torches. 2,533,353, Dec. 12.

Clogg Company, The, assignee: *See*—
Eckhardt, William A.

Coar, Richard J., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Supercharger control. 2,533,714, Dec. 12.

Cochrane, Louis W., Matawan, N. J., assignor to United Board & Carton Corporation, New York, N. Y. Cup-carrying tray. 2,533,997, Dec. 12.

Coeterier, Frederik, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device comprising a discharge tube sensitive to space charge variations. 2,533,767, Dec. 12.

Cohen, Nathaniel L., Rockaway Beach, N. Y. Servo mechanism. 2,534,106, Dec. 12.

Coffey, Francis T., Sr., Los Angeles, Calif. Motion-picture projector having cam operated intermittent film feed and shutter. 2,533,560, Dec. 12.

Cohen, Felix, Denver, Colo. Christmas tree lighting system. 2,533,222, Dec. 12.

Cole, Edward S., Upper Montclair, N. J., assignor to Pitometer Log Corporation, New York, N. Y. Ship's log. 2,533,998, Dec. 12.

Colley, Ralph, Tonica, Ill. Harrow truck. 2,533,999, Dec. 12.

Collins Radio Company, assignee: *See*—
Pyle, Ross S.
Shanklin, John P.
Sherwood, John R., and Klippel.

Collins, Raymond R., Southport, Conn., assignor to The Lummus Company, New York, N. Y. Filter drum screen fastening means. 2,534,161, Dec. 12.

Collison, John S., Campbell, assignor to R. B. Collison, Bruning, Nebr. Self-locking wrench. 2,533,436, Dec. 12.

Collison, Roland B., assignee: *See*—
Collison, John S. and R. B.

Comfort, John, Nahant, Mass. Paintbrush holder. 2,533,354, Dec. 12.

Comfort, John, Nahant, Mass. Paintbrush holder and cover therefor. 2,533,355, Dec. 12.

Compagnie Generale de Telegraphie sans Fil, assignee: *See*—
Grivet, Pierre.

Condon, J. Cheever, assignee: *See*—
Edwards, William C.

Conklin, Alfred A., West Haven, and R. G. Sherman, North Haven, Conn. Expansible tube plug. 2,533,715, Dec. 12.

Conrad, Samuel L., Columbus, Ohio. Safety signaling device for double track railway systems. 2,533,768, Dec. 12.

Continental Can Company, Inc., assignee: *See*—
Bates, Henry A.
Henchert, John.

Continental Equipment Corporation, assignee: *See*—
Fruhling, Frederick H.

Continental, Incorporated, assignee: *See*—
Fulton, Robert E., Jr.

Continental Motors Corporation, assignee: *See*—
Ginn, Earl.

Control Instrument Company, Inc., assignee: *See*—
Braun, Karl J.

Cook, Curtiss L., and A. E. Young, assignors to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y. Subsoiler. 2,533,435, Dec. 12.

Cook Electric Company, assignee: *See*—
Hasselhorn, Walter C.

Cook, Ernest E.: *See*—
Sadler, Harry J., and Cook.

Coopey, Walter, Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing hydrocyanic acid. 2,534,000, Dec. 12.

Coover, Harry W., Jr.: *See*—
Dickey, Joseph B., and Coover, Jr.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Hings, Donald L.

Corwin, John F., Unadilla, J. R. Calhoun, Bainbridge, and T. M. Buzzo, Unadilla, assignors to The Borden Company, New York, N. Y. Casein filaments treated with mercuric salt and formaldehyde solution. 2,533,356, Dec. 12.

Cossaboon, Karl F.: *See*—
Schmidt, Edgar H., and Cossaboon.

Couillard, Louis, Paris, France, assignor to Societe Francaise Radio Electrique. Radio altimeter. 2,533,769, Dec. 12.

Coursey, Philip R., Liss, England, assignor to Engineering Development Laboratories, Inc., New York, N. Y. Electrical condenser. 2,533,716, Dec. 12.

Coursey, Philip R., Kingston, England, assignor to Engineering Development Laboratories, Inc., N. Y. Making electrical condensers. 2,533,717, Dec. 12.

Coursey, Philip R., Kingston, C. H. Munday, Barnes, and K. A. Gough, Sutton, England, assignors to Engineering Development Laboratories, Inc., New York, N. Y. Making electrical condensers. 2,533,718, Dec. 12.

Couse, Kibbey W., Newark, N. J. Two-blade reciprocating saw device. 2,534,001, Dec. 12

Cox, Eliza A., Marion, Ill. Clarifier of sewage by colloidal degeneration. 2,533,223, Dec. 12.

Cox, Robert E.: *See*—
Silver, Walter H., and Cox.

Crawford, Frank T., Waipahu, Oahu, Hawaii. Sugar cane cleaning method and apparatus. 2,533,357, Dec. 12.

Cresswell, Arthur, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymeric compositions and preparing the same. 2,533,224, Dec. 12.

Cristiani, Luigi, Firenze, Italy. Device for four-color stereoscopic cinematography based on additional synthesis. 2,533,719, Dec. 12.

Cronvall, Lars P., Stockholm, and G. Winkler, Appelviken, Stockholm, Sweden, assignors to International Standard Electric Corporation, New York, N. Y. Regulated rectifier. 2,533,225, Dec. 12.

Crook, Louis H., assignor of sixty-five per cent to S. B. Pack, Washington, D. C. Electric distribution system. 2,533,920, Dec. 12.

Crowell, Gordon W., Glen Ridge, N. J., assignor to R. Willis, New York, N. Y. Power unit for shifting gears of marine engines. 2,534,002, Dec. 12.

Crown Cork & Seal Company, Inc., assignee: *See*—
Dennis, Stanley W., and Henschen.

Cryer, John, New Lenox, J. C. Owens, and R. J. F. Lee, Chicago, Ill., assignors to The Sherwin-William Company, Cleveland, Ohio. Preparation of pentaerythritol. 2,534,191, Dec. 12.

Culver, Merlyn M., and L. L. Duncan, Dayton, Ohio. Filler-cap mechanism. 2,534,003, Dec. 12.

Curtiss-Wright Corporation, assignee: *See*—
Brady, George W., and Chillson.
Cushman, Maurice E.

Curzon, Thomas, assignor to C. A. V. Limited, London, England. Electric circuit breaker and indicating device therefor. 2,534,107, Dec. 12.

Cushman, Maurice E., Verona, N. J., assignor to Curtiss-Wright Corporation. Variable pitch propeller. 2,533,358, Dec. 12.

Dahl, Carl P., assignor of The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,533,921, Dec. 12.

Dailey, Francis N., Rockville, assignor to Hartford-Empire Company, Hartford, Conn. Tongs for forehearth skimmer blocks and the like. 2,533,770, Dec. 12.

Danel, Pierre F., assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France. Branch pipe breeching for pressure conduits. 2,533,720, Dec. 12.

Dann, Charles W., Malden, Mass., and R. M. Somers, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Transducer carriage feed and control mechanism therefor. 2,533,359, Dec. 12.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Latch means. 2,533,360, Dec. 12.

Davie, James, assignee: *See*—
Duff, John C. M.

Davie, Preston, assignee: *See*—
Edwards, William C.

Davis, Harold W., Bound Brook, and W. A. Johns, North Plainfield, assignors, by mesne assignments, to Vibradamp, Incorporated, New Brunswick, N. J. Hydraulic damping mechanism. 2,533,226, Dec. 12.

Dean, David: *See*—
Glascoe, Paul K., and Dean.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Detonation voltage measuring means. 2,534,004, Dec. 12.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Detonation meter. 2,534,005, Dec. 12.

Deere & Company, assignee: *See*—
Rocoe, Merrill W.
Silver, Walter H., and Cox.
Walz, Claude W., and Griff.

Deere Manufacturing Co., assignee: *See*—
Jirsa, Emil F., Hansen, and Bopp.

De Frees, Joseph H., assignor to Pennsylvania Furnace and Iron Company, Warren, Pa. Vented closure for milk tank manholes. 2,533,771, Dec. 12.

De Frees, Joseph H., assignor to Pennsylvania Furnace and Iron Company, Warren, Pa. Fire truck. 2,533,772, Dec. 12.

Dehmel, Richard C., Short Hills, N. J. Radio training system for aircraft pilots. 2,533,361, Dec. 12.

Deibel, Gottfried, Dresden, Germany. Device for precipitating and drawing off annoying and harmful vapors and gases developing during boiling of acids. 2,533,561, Dec. 12.

Deibel, Gottfried, Dresden, Germany. Devices for precipitating and drawing off annoying and harmful vapors and gases. 2,533,562, Dec. 12.

Deichmiller, Alwin, and E. F. Shalla, Pasadena, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Die. 2,533,922, Dec. 12.

De Lacy, Joseph H., Park Ridge, Ill. Hangers for use in processing photographic prints. 2,533,664, Dec. 12.

De La Foret, Norman F., assignor to The Ottawa River Paper Company, Toledo, Ohio. Ventilated corrugated board container. 2,533,773, Dec. 12.

Delaney, Harry W., Chicago, Ill. Apparatus for the manufacture of twist drills. 2,533,227, Dec. 12.

De Lano, Ralph B., Jr., New York, N. Y., and E. M. Williams, Pittsburgh, Pa., assignors to Sperry Products, Inc., Hoboken, N. J. Supersonic inspection device. 2,534,006, Dec. 12.

Delisi, Philip: *See*—
Delisi, Violet J. and P.

Delisi, Violet J. and P., Lemont, Ill. Bedpan attachment. 2,533,774, Dec. 12.

De Luca, Eugene, Philadelphia, Pa. Machine for molding concrete brick. 2,533,721, Dec. 12.

De Nie, Willem L. J., and R. H. M. Meyer, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Copolymerizing monomers having different polymerization rates. 2,534,108, Dec. 12.

Dennis, Stanley W., and E. Henschen, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Container closing apparatus. 2,533,437, Dec. 12.

Dent, Samuel G., Jr., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing oxonol dyes. 2,533,206, Dec. 12.

De Remer, J. G., Research Corporation, assignee: *See*—
De Remer, Jay G.

De Remer, Jay G., Darien, Conn., assignor to J. G. De Remer Research Corporation, Union City, N. J. Balancing centrifugal drying and washing machine. 2,533,722, Dec. 12.

Dermetics, Inc., assignee: *See*—
Burger, Charles H.

Detuno, Rocco J.: *See*—
Christiansen, Milton J., Detuno, and Garbe.

De Vilbiss Company, The, assignee: *See*—
Peeps, Donald J.

Devine, Bernard F., Wauwatosa, and L. G. Hilkemeier, Greenfield, assignors to Chain Belt Company, Milwaukee, Wis. Transit concrete mixer having adjustable discharge height. 2,533,362, Dec. 12.

De Witt, Charles E., Big Prairie, Ohio. Tractor hitch. 2,534,109, Dec. 12.

Dice, Robert P., Webster Springs, and B. H. Keener, Bergoo, W. Va. Remote-control device. 2,534,110, Dec. 12.

Dickey, Joseph B., and H. W. Coover, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Copolymers containing 9-methylenefluorene. 2,533,207, Dec. 12.

Dictaphone Corporation, assignee: *See*—
Roberts, Frederick W.

Dietrich, Walter L., assignor to Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Switch operating mechanism with positive kickoff. 2,534,007, Dec. 12.

Di Giovanna, Tigellia C., Brooklyn, N. Y. Bathing cap. 2,533,879, Dec. 12.

Di Ienno, John J.: *See*—
Stuber, Walter J., and Di Ienno.

Dill, Charles E., Dover, N. J., assignor to Armstrong Cork Company, Lancaster, Pa. Calendering sheet material. 2,533,228, Dec. 12.

Dingeldein, Harry A.: *See*—
Morey, Carl, and Dingeldein.

Dingley, Edward N., Jr., Arlington, Va. Omnidirectional radio beacon. 2,533,229, Dec. 12.

Di Paola, George, assignee: *See*—
Bodnar, Joseph.

Distillers Company Limited, The, assignee: *See*—
Howlett, John, and Wood.

Dixon, Willis E., Stronghurst, Ill. Animal catcher and holder. 2,533,230, Dec. 12.

Dobbs, William D., Palestine, Tex., assignor to Tide Water Associated Oil Company, Tulsa, Okla. Well activator. 2,533,563, Dec. 12.

Dobson & Barlow Limited, assignee: *See*—
Pimley, Gordon H.

Dombrow, Bernard A., New York, N. Y., assignor to Napco Chemical Company, Harrison, N. J. Catalytic amine-ketone condensation. 2,533,723, Dec. 12.

Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Wave conversion system for transmitters and receivers. 2,534,111, Dec. 12.

Dominy, Charles F., assignee: *See*—
Remonte, John.

Donkin, William F., Cleveland Heights, and C. F. Oestermeyer, Shaker Heights, assignors to Willard Storage Battery Company, Cleveland, Ohio. Battery nonspill vent plug. 2,533,880, Dec. 12.

Donohoe, John J., Bellrose Manor, and E. A. Glasser, Kew Gardens, N. Y. Horizontally swingable stool. 2,533,363, Dec. 12.

Dostal, Ferdinand A.: *See*—
Bernardi, Dominic J., and Dostal.

Doumani, Thomas F.: *See*—
Skinner, Davis A., and Doumani.

Doyle, Frank P.: *See*—
Kendall, John D., and Doyle.

Drake, George F., W. J. Whitehead, and H. C. Plummer, assignors to Woodward Governor Company, Rockford, Ill. Speed-responsive governor. 2,533,231, Dec. 12.

Drake, Irvin J.: *See*—
Brouwer, Clarence J., and Drake.

Drake, Russell P., Caledonia, assignor to Barber-Colman Company, Rockford, Ill. Donning mechanism for bobbin handling machines. 2,534,162, Dec. 12.

Dressler, Russell G., Louisiana, Mo., assignor to California Research Corporation, San Francisco, Calif. Production of para xylene. 2,533,232, Dec. 12.

Driver-Harris Company, assignee: *See*—
Lohr, James M.

Du Bois, Donald, Ashokan, and P. Wheeler, Poughkeepsie, N. Y. Pilot turning attachment for lathes. 2,533,665, Dec. 12.

Duff, John C. M., Springfield Gardens, assignor of one-half to J. Davie, Long Island City, N. Y. Heater. 2,533,881, Dec. 12.

Duncan, Lyle L.: *See*—
Culver, Merlyn M., and Duncan.

Dungler, Julien, Basel, Switzerland. Calender, including upper and lower rollers with improved guiding and lifting means for central roller means. 2,533,724, Dec. 12.

Dunham, James A., Los Angeles, Calif. Humidifying system for internal-combustion engines. 2,533,438, Dec. 12.

Dunn, Cecil G.: *See*—
Morrill, Weston, Dunn, and Ward.

Dunn, Ted E.: *See*—
Robinson, David H., and Dunn.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Amos, Stephen E., and Jeffrey.
Blake, Ralph K.
Cadot, Henry M.
Chapman, Aurelius F.
Coopey, Walter.
Gresham, William F., and Grigsby.
Gresham, William F., and Schweitzer.
Harris, Charles R.
Hull, Donald R., Phillips, and Tate.
Izard, Emmette F.
Jenner, Edward L.
Keller, Edwin H.
Lemke, Charles H.
Murray, Otis W.
Renfrew, Malcolm M.
Schmidt, Edgar H., and Cossaboon.
Strain, Daniel E.
Strain, Daniel E., and Peterson.
Webb, Irving D.
Young, James H.

Durrschmidt, Frederick J., Shelton, Conn. Commutator. 2,533,775, Dec. 12.

Dustman, Otto L., Tucson, Ariz. Metal brace for sawhorses. 2,533,776, Dec. 12.

Dwelle, Thomas W., Visalia, Calif. Rotational speed governor. 2,533,564, Dec. 12.

Eastman Kodak Company, assignee: *See*—
Bean, Frederick R.
Caldwell, John R.
Capstaff, John G.
Carroll, Burt H., and Spence.
Dent, Samuel G., Jr., and Brooker.
Dickey, Joseph B., and Coover.
Estes, Cameron B.
Fitch, Harold L.
Fuerst, Carl C.
Glasoe, Paul K., and Dean.
Gresham, Donald C.
Hagemeyer, Hugh J., Jr.
Ives, Charles E.
Jaseper, John W.
Keyes, Grafton H., and Brooker.
Koch, George J.
Leavitt, Roger P., and White.
Lee, Charles M., and Barringer.
McFarlane, John W., and Moses.
Sawdey, George W., and Vittum.
Staehle, Henry C.

Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Compressor valve control mechanism. 2,533,777, Dec. 12.

Ebert, Howard P.: *See*—
Maurer, Spencer B., and Ebert.

Eckhardt, William A., assignor to The Clogg Company, Baltimore, Md. Sign display frame. 2,533,778, Dec. 12.

Edison, Thomas A., Incorporated, assignee: *See*—
Dann, Charles W., and Somers.

Edwards, Harry D. and J. D. Kendall, assignors to Ilford Limited, Ilford, England. $\beta\beta$-dicyanoketene dialkyl mercaptoles and their preparation. 2,533,233, Dec. 12

Edwards, Harry D., assignor to Ilford Limited, Ilford, England. Certain thio derivatives of alpha alkylidene cyanoacetic esters. 2,534,112, Dec. 12.

Edwards, Karl C., Chase, Md., and D. D. Jones, Weston, Conn., assignors to Western Electric Company, Incorporated, New York, N. Y. Connecting mechanism. 2,533,923, Dec. 12.

Edwards, William C., Jamaica, N. Y., assignor of one-half to J. C. Condon, Bel Air, Calif., P. Davie, Westbury, and C. D. Prutzman, Forest Hills, N. Y., and seven and one-half per cent to J. M. W. Miller, Los Angeles, Calif. Telephone answering apparatus. 2,533,234, Dec. 12.

Egger, Louis G., New York, N. Y., assignor to United Mechants & Manufacturers, Inc., Wilmington, Del. Making nonwoven material. 2,534,113, Dec. 12.

Eichelman, John M., Downers Grove, Ill. Display device having removable nonrigid panel. 2,533,565, Dec. 12.

Eisenberg, Daniel, Plainfield, N. J. Collapsible support for umbrellas, shoes, and the like. 2,533,725, Dec. 12.

Eisendrath, Oscar N.: *See*—
Michals, Henry T., and Eisendrath.

Eitel-McCullough, Inc., assignee: *See*—
Chamberlain, Richard H., and Sorg.

Elastic Stop Nut Corporation of America, assignee: *See*—
Hill, Thomas A.

Elder, Flint C., Cleveland Heights, Ohio, assignor to The American Steel and Wire Company of New Jersey. Making coated wire screen cloth. 2,533,439, Dec. 12.

Electric & Musical Industries Limited, assignee: *See*—
Hart, Geoffrey W.

Electric Storage Battery Company, The, assignee: *See*—
Batt, Walter E.

Electro-Hydraulics Limited, assignee: *See*—
Neilson, Christopher B. V., and Hoare.

El-Said, Mohamed A. H.: *See*—
El Shishini, Mahmoud, and El-Said.

El Shishini, Mahmoud, and M. A. H. El-Said, Giza, Cairo, Egypt. High-frequency harmonic analyser. 2,533,566, Dec. 12.

Ely, George L., Hopkinton, assignor to Jordan Marsh Company, Boston, Mass. Elevator. 2,534,192, Dec. 12.

Emde, Kurt, Itasca, Ill., assignor to Zenith Radio Corporation. Lug fastening means for electrical shields. 2,533,779, Dec. 12.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Phillips, Chester S.

Emerson, William S., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Copolymers of styrene and para-vinylbenzyl compounds. 2,534,193, Dec. 12.

Emmert, Clayton F., and W. H. Stouder, assignors to Automatic Washer Company, Newton, Iowa. Washing machine. 2,534,194, Dec. 12.

Empire Box Corporation, assignee: *See*—
Allen, William H., and Hall.

Endee, Charles H., Canton, Mass. Carrying means for golf bags. 2,533,440, Dec. 12.

Enghauser, Winford L., Cincinnati, Ohio. Mailbox support and sign. 2,534,163, Dec. 12.

Engineering Development Laboratories, Inc., assignee: *See*—
Coursey, Philip R.
Coursey, Philip R., Munday and Gough.

Ensinger, Earl H., Cleveland, Ohio. Swingable prop for conveyors. 2,533,882, Dec. 12.

Erickson, Helmer E.: *See*—
Talboys, Henry H., and Erickson.

Erickson, Lowell H., assignor to M. S. Merrill, Denver, Colo. Electronic control circuits. 2,533,567, Dec. 12.

Erskine, Douglas W.: *See*—
Boock, Alfred C., and Erskine.

Erskine, Douglas W., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Clutch bearing lubrication. 2,533,568, Dec. 12.

Espinola, Jovino A., La Vega, Dominican Republic. Calculator. 2,533,569, Dec. 12.

Estes, Cameron B., assignor to Eastman Kodak Company, Rochester, N. Y. Slide changing device. 2,533,441, Dec. 12.

Eutzler, Enos, Mishawaka, Ind. Drapery ring. 2,533,780, Dec. 12.

Ex-Cell-O Corporation, assignee: *See*—
Monroe, Charles Z.

F-R Machine Works, assignee: *See*—
Hollstein, Oswald C.

Fair Lawn Finishing Company, assignee: *See*—
Helmus, Weldon G.

Falcon, William V., Revere, Mass. Cylinder head structure for internal-combustion engines. 2,533,442, Dec. 12.

Fallowfield, Thomas, Jr., Vancouver, British Columbia, Canada. Self-cleaning door mat. 2,533,781, Dec. 12.

Farbman, William, New York, N. Y. Computing device. 2,533,443, Dec. 12.

Faris, William W., Webster Grove, Mo. Growing feeder for poultry. 2,534,114, Dec. 12.

Fasco Industries, Inc., assignee: *See*—
Matulaitis, Victor E., and Byam.

Favre, John A., Drexel Hill, Pa., assignor to General Electric Company. Transitory electroresponsive switching control. 2,534,115, Dec. 12.

Feek, William A., Seattle, Wash. Portable signal light. 2,533,235, Dec. 12.

Feldman, John E., Garfield, N. J., assignor to United States Rubber Company, New York, N. Y. Bathing cap. 2,533,444, Dec. 12.

Felsenheld, Robert A., East Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Antenna array. 2,533,236, Dec. 12.

Ferrill, Thomas M., Jr., Hempstead, and B. F. Spencer, Garden City, N. Y., assignors to The Sperry Corporation. Superregenerative receiver. 2,533,237, Dec. 12.

Ferris, Robert G., assignor to Starline, Inc., Harvard, Ill. Track for hanging doors, conveyors and the like. 2,534,195, Dec. 12.

Fidelity Trust Company, administrator: *See*—
Hyle, Jacob A.

Fiero, George W., Port Chester, N. Y., H. F. Seeland, Little Silver, and G. H. Batt, Rahway, N. J., assignors, by mesne assignments to Standard Oil Development Company. Insecticidal paper-coating compositions. 2,534,008, Dec. 12.

Finch, Leonard E., assignor to West Bend Aluminum Company, West Bend, Wis. Pressure cooker. 2,534,164, Dec. 12.

Finney, Lawrence, Georgetown, Ill. Poultry eviscerating tool. 2,533,445, Dec. 12.

Fischer, Arnold F., New York, N. Y. Tension means for wire stitching machines. 2,533,782, Dec. 12.

Fischer, Georg, Aktiengesellschaft, assignee: *See*—
Rothschild, Hans J.

Fisher, Felix R., Streatham Hill, England. Life belt having a compressed gas inflation cylinder. 2,533,446, Dec. 14.

Fitch, Harold L., assignor to Eastman Kodax Company, Rochester, N. Y. Continuous control printer. 2,533,447, Dec. 12.

Fjeldstad, Sverre, New York, N. Y. Apparatus for spraying cementitious compositions. 2,534,116, Dec. 12.

Fletcher Trust Company, assignee and trustee: *See*—
Starkey, William C.

Flick, Walter J. L., Tarentum, Pa. Flag holder. 2,534,117, Dec. 12.

Flicker, Jakob, Brooklyn, N. Y. Table leg attaching means. 2,533,313, Dec. 12.

Floyd, Norman F., assignor to The Lankenau Hospital, Philadelphia, Pa. Continuous delivery chemical wash bottle. 2,533,726, Dec. 12.

Flynn, John J.: *See*—
Clinton, Edward J., Jr., and Flynn.

Fogelholm, Karl-Gustaf B., administrator: *See*—
Sevön, Johan W., and Sundman.

Foley, Frederic E. B., St. Paul, Minn. Artificial sphincter. 2,533,924, Dec. 12.

Food Machinery and Chemical Corporation, assignee: *See*—
Clark, Don A.

Forman, Arthur W., and W. R. Thirdborough, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J. Mandrel for blind riveting. 2,533,448, Dec. 12.

Fournier, Peter, Trenton, Mich. Vaporizing-type liquid fuel burner. 2,533,783, Dec. 12.

Fox, William M., Minneapolis, Minn. Box kite. 2,533,670, Dec. 12.

Fraser, Keith E., Detroit, Mich. Coffee metering device. 2,533,449, Dec. 12.

Fread, Charles L., assignor, by mesne assignments, to Gerity-Michigan Corporation, Adrian, Mich. Agitating electroplating mechanism. 2,534,165, Dec. 12.

Freasier, Stella R., Phoenix, and A. W. Gressinger, Florence, Ariz. Adjustable back rest. 2,534,009, Dec. 12.

Frese, Joseph F., assignor to The Monitor Controller Company, Baltimore, Md. Circuit controller. 2,533,238, Dec. 12.

Frigid Transport Company, Inc., assignee: *See*—
Hopp, Harold C.

Fruhling, Frederick H., assignor to Continental Equipment Corporation, Milwaukee, Wis. Delivery mechanism for bottle-washing machines. 2,533,784, Dec. 12.

Frye, De Moine H., assignor to L. T. Swallow, Detroit, Mich. Reusable pallet bin. 2,534,010, Dec. 12.

Frye, De Moine H., Detroit, Mich., assignor to L. T. Swallow. Reusable pallet bin. 2,534,011, Dec. 12.

Frye, Veryl F.: *See*—
Gierke, Walter W., Brownsey, and Frye.

Fuchs, Bedřich, Prague, Czechoslovakia. Copyholder. 2,533,727, Dec. 12.

Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Impact latch to prevent rebound in camera shutter leaves. 2,533,450, Dec. 12.

Fuke, Francis C., assignor to British Mechanical Productions Limited, Leatherhead, England. Rocker-arm snap switch. 2,533,571, Dec. 12.

Fulke, Frank L., Terre Haute, Ind. Mining machine. 2,533,572, Dec. 12.

Fulton Robert E., Jr., assignor to Continental, Incorporated, Washington, D. C. Roadable airplane. 2,533,925, Dec. 12.

Fumagalli, Charles, Guatemala, Guatemala. Variable propeller. 2,533,785, Dec. 12.

Gabel, Charles, Hawkeye, Iowa. Tractor seat having spring mounting. 2,533,573, Dec. 12.

Gadpaille, Edgar C., New Orleans, La. Door knob. 2,534,012, Dec. 12.

Gagnier, George E., Detroit, Mich. Fastening strip. 2,533,786, Dec. 12.

Gannett, Wright K.: *See*—
Mast, Gifford M., and Gannett.

Garbe, Howard W.: *See*—
Christiansen, Milton J., Detuno, and Garbe.

Garner, Russell F.: *See*—
Weber, Victor, and Garner.

Garrett, Bowman S., Baton Rouge, La., assignor to The Standard Oil Development Company. Distilling polymer-forming hydrocarbons and removing polymer from distillation equipment. 2,534,013, Dec. 12.

Garrett, George K., Company, Inc., assignee: *See*—
Miller, Harry R.

Gasper, Stephen: *See*—
Nolan, Terence M., and Gasper.

Gayring, Wallace F., Minoa, and J. Neuroth, assignors to The Prosperity Company, Inc., Syracuse, N. Y. Washing ingredient dispensing mechanism for washing apparatus. 2,534,014, Dec. 12.

Gebhart, Morrill E., Wichita, Kans. Chiropractic portable table. 2,533,787, Dec. 12.

Gedat, Curt R., Middletown, P. Schimmel, Bronx, and S. L. Atkins, New York, N. Y. Velocipede. 2,533,728, Dec. 12.

Geffroy, Robert R. L., Neuilly-sur-Seine, assignor to Société: Volcan S. A., Levallois, France. Oxyacetylene installation for welding, cutting, or the like. 2,533,729, Dec. 12.

Geisler, Ralph H., and C. H. Skeen, Midland, Tex. Hydraulic drilling machine. 2,534,118, Dec. 12.

Gelb, Abe, New Rochelle, N. Y. Inventory indicator. 2,533,883, Dec. 12.

General Aniline & Film Corporation, assignee: *See*—
Grimmel, Harry W., and Morgan.

General Controls Co., assignee: *See*—
Matteson, Harold J.
Ray, William A.

General Electric Company, assignee: *See*—
Akeley, Lloyd T.
Apker, LeRoy, and Kahnke.
Camilli, Guglielmo.
Dome, Robert B.
Favre, John A.
Gethmann, Richard B.
Hamala, Edwin A.
Hunt, William R.
Marshall, Daniel Q.
Morrill, Weston, Dunn, and Ward.
Morton, Cecil J., and Woodfield.
Price, David R., and Grayson.
Sauer, Robert O.
Smalley, Dean F.
Wintle, Harley C.
Zuerker, Siegfried.

General Foods Corporation, assignee: *See*—
Kaufman, Charles W.

General Instrument Corporation, assignee: *See*—
Gersch, Adolph E.

General Steel Castings Corporation, assignee: *See*—
Travilla, James C., Jr.

General Tire and Rubber Company, The, assignee: *See*—
Winkeljohn, Thomas H.

Gent, Alfred W., and P. J. Wallis, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Impedance transformer for coaxial lines. 2,533,239, Dec. 12.

Gerity-Michigan Corporation, assignee: *See*—
Fread, Charles L.

Gerlach, Hugo, Hendon, assignor to Block & Anderson Limited, London, England. Moistening mechanism for duplicating machines. 2,533,574, Dec. 12.

Gersch, Adolph E., Boonton, assignor to General Instrument Corporation, Elizabeth, N. J. Variable capacity condenser. 2,533,730, Dec. 12.

Gershel Smoke Equipment Co., assignee: *See*—
Gershel, Stanley L.

Gershel, Stanley L., assignor to Gershel Smoke Equipment Co., New Philadelphia, Ohio. Smoke treatment and control for smoke houses. 2,533,926, Dec. 12.

Gerstein, Harry, New York, and R. Kagan, Brooklyn, assignors to Spiral Bagging Machine Corporation, New York, N. Y. Wind-up device for tubular material. 2,534,015, Dec. 12.

Gethmann, Richard B., Bridgeport, Conn., assignor to General Electric Company. High-potential coil. 2,534,119, Dec. 12.

Geyer, Bradford P.: *See*—
Ballard, Seaver R., and Geyer.

Geyer, Fred J., East Chicago, Ind. Screen with baked enamel coating. 2,533,788, Dec. 12.

Geyer, George C., Hillside, N. J. Wear take-up means for wheel brakes. 2,533,927, Dec. 12.

Glerke, Walter W., O. E. Brownsey, and V. F. Frye, assignors to U. S. Slicing Machine Company, Inc., La Porte, Ind. Meat tendering machine. 2,534,166, Dec. 12.

Gilbert, Everett E., assignor to Allied Chemical & Dye Corporation, New York, N. Y. 2,4-dichlorophenoxyacetic acid compositions. 2,533,884, Dec. 12.

Ginn, Earl, North Muskegon, assignor to Continental Motors Corporation, Muskegon, Mich. Internal-combustion engine. 2,533,575, Dec. 12.

Ginsburg, Albert S., assignor to La Salle Designing Company, Chicago, Ill. Tapping machine. 2,533,451, Dec. 12.

Glonet, Leo A., Duluth, Minn., assignor to The American Steel and Wire Company of New Jersey. Rotary knockout mechanism for pig-casting machines. 2,533,576, Dec. 12.

Givaudan Corporation, The, assignee: *See*—
Gump, William S., and Nikawitz.

Glasoe, Paul K., and D. Dean, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic brightness correction mask. 2,533,452, Dec. 12.

Glass, Paul, and F. E. Prem, assignors to Askania Regulator Company, Chicago, Ill. Electrical control circuits. 2,534,196, Dec. 12.

Glasser, Eugene A.: *See*—
Donohoe, John J., and Glasser.

Glen, William L.: *See*—
Grant, Gordon A., Glen, and Barber.

Glick, Sanford E., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymerizing styrene in contact with benzoyl peroxide and di (tertiary butyl) peroxide. 2,534,120, Dec. 12.

Globe Automatic Sprinkler Company, assignee: *See*—
Rowley, Arthur C.

Godfrey, Paul S., Wauwatosa, Wis., assignor, by mesne assignments, to Bernard E. Sheras, Chicago, Ill. Card box. 2,533,577, Dec. 12.

Goff, Henry J., Stockton, Calif. Machine for cutting handholds in wooden box ends. 2,534,167, Dec. 12.

Goldblatt, Leo A., and D. M. Oldroyd, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Organochlorosilanes and their production. 2,533,240, Dec. 12.

Goldman, Bronislaw, Pittsburgh, Pa. Apparatus for comminuting and mixing materials. 2,533,241, Dec. 12.

Gomberg, Jacob, Chicago, Ill. Bobbin for knitting yarn and the like. 2,533,731, Dec. 12.

Gomersall, John R., assignor to McGraw Electric Company, Elgin, Ill. Water level indicator. 2,533,578, Dec. 12.

Goodchild, Henry C., Los Angeles, Calif. Cushion for clutch plates. 2,533,789, Dec. 12.

Goodrich, B. F. Company, The, assignee: *See*—
Lowcke, Erwin F.

Goss, Paul, assignee: *See*—
Bragmann, Frank.

Gottschalk, Gordon W., Iron Mountain, Mich. Rubber-coated stocking-foot boot. 2,533,453, Dec. 12.

Gough, Kathleen A.: *See*—
Coursey, Philip R., Munday, and Gough.

Gowing, Nelson E., Wombourne, Wolverhampton, England. Method of and apparatus for the formation of concrete pipes. 2,533,579, Dec. 12.

Graham, Matthew P., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint assembly. 2,533,928, Dec. 12.

Grant, Gordon A., Montreal, W. L. Glen, Baie d'Urfe, and R. J. Barber, assignors to Ayerst, McKenna & Harrison, Limited, Ville St. Laurent, Quebec, Canada. Amine addition salts of steroid-3-monosulfates. 2,534,121, Dec. 12.

Grant, Max L., assignee: *See*—
Wilcox, Granville M., and Johnson.

Gravely Motor Plow and Cultivator Company, assignee: *See*—
Rose, Eustace L.

Gray, Griffin W., and C. B. Wade, Roanoke, Va. Rail switch point lifting means. 2,533,929, Dec. 12.

Grayson, Albert: *See*—
Price, David R., and Grayson.

Greenwood, Ernest J. Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Control for aircraft drives. 2,534,168, Dec. 12.

Greider, Harold W., and W. V. Leibrook, Wyoming, assignors to The Philip Carey Manufacturing Company, Lockland, Ohio. Composition shingle. 2,533,364, Dec. 12.

Grelson, Peter, Minneapolis, Minn. Lawn sprinkler. 2,534,016, Dec. 12.

Gresham, Donald C., Wealdstone, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y. Plating nonmetallic surfaces. 2,533,454, Dec. 12.

Gresham, William F., and W. E. Grigsby, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalyst recovery process. 2,534,017, Dec. 12.

Gresham, William F., and C. E. Schweitzer, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyfunctional compounds. 2,534,018, Dec. 12.

Gressinger, Alfred W.: *See*—
Frasier, Stella R., and Gressinger.

Gridley, Darrin H., Washington, D. C. Data transformation system. 2,533,242, Dec. 12.

Griff, Robert D.: *See*—
Walz, Claude W., and Griff.

Griffith-Hope Company, assignee: *See*—
Hope, Samuel N.

Grigsby, William E.: *See*—
Gresham, William F., and Grigsby.

Grimmel, Harry W., Riegelsville, Pa., and J. F. Morgan, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Coppered azo dye. 2,534,197, Dec. 12.

Grinnell Corporation, assignee: *See*—
Williams, James H.

Griswold, Laurence V., Cedar Rapids, Iowa. Foldable frame for trampolines, beds, or the like. 2,534,019, Dec. 12.

Grivet, Pierre, Paris, France, assignor to Compagnie Generale de Telegraphie sans Fil. High-tension electrostatic electron lens. 2,533,790, Dec. 12.

Groeber, Otto W., and W. McCord, Louisville, Ky., assignors to Armour and Company, Chicago, Ill. Egg yolk and white separator. 2,533,365, Dec. 12.

Groenenberg, Maarten J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Indicating device. 2,533,791, Dec. 12.

Groff, Frazier, Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Polyvinyl partial acetal composition and making the same. 2,533,314, Dec. 12.

Grosse, Aristid V., New York, N. Y. Treatment of uranium chlorides. 2,533,315, Dec. 12.

Grosse, Aristid V., New York, N. Y. Handling of uranium hexafluoride in vessels of glass and silica. 2,533,316, Dec. 12.

Grove Regulator Company, assignee: *See*—
Annin, Douglas H.

Gruszecki, Frank, assignor of one-half to H. Rothenberg, Buffalo, N. Y. Weather strip installation tool. 2,533,367, Dec. 12.

Gruver, John H., East Cleveland, Ohio., assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Record controlled embossing machine. 2,533,366, Dec. 12.

Guarnaschelli, Stephen, assignor to The Brockway Company, Naugatuck, Conn. Self-flaring pipe coupling. 2,534,198, Dec. 12.

Guarnaschelli, Stephen, assignor to The Brockway Company, Naugatuck, Conn. Threadless tube coupling. 2,534,199, Dec. 12.

Gump, William S., Upper Montclair, and E. J. Nikawitz, Passaic, N. J., assignors to The Givaudan Corporation, New York, N. Y. 2[2-N-benzyl-N-(β-chloroethyl) aminoethyl] pyridine and the acid salts thereof. 2,533,243, Dec. 12.

Gunness, Robert C., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon synthesis. 2,533,666, Dec. 12.

Habe, John L.: *See*—
Schmohl, Leland H., and Habe.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing linear condensation polymers from bis-diazo-diketo alkanes. 2,533,455, Dec. 12.

Hall, Elijah F., Reidsville, N. C. Calculator. 2,535,580, Dec. 12.

Hall, Maynard G.: *See*—
Allen, William H., and Hall.

Hall, Robert G., Mancelona, Mich. Baby's automobile traveling pen-bed. 2,533,792, Dec. 12.

Hamala, Edwin A., Cleveland Heights, Ohio, assignor to General Electric Company. Tank type vacuum cleaner with superimposed attachment carrying receptacle. 2,534,122, Dec. 12.

Hamilton Scheu & Walsh Shoe Co., assignee: *See*—
Walsh, John J.

Hamlett, Harry W., London, England. Rotary plow and screen. 2,533,793, Dec. 12.

Hammond, Milton B.: *See*—
Rowland, Frederick T., and Hammond.

Hanks, Marshall W., and A. B. Johnson, assignors to Hankscraft Company, Madison, Wis. Vaporizer. 2,533,794, Dec. 12.

Hankscraft Company, assignee: *See*—
Hanks, Marshall W., and Johnson.

Hansen, Harvey R., Jr., Detroit, Mich. Tongs. 2,533,795, Dec. 12.

Hansen, Henry, and C. F. Brown, Kansas City, Mo. Undulating track occupant propelled roundabout. 2,533,368, Dec. 12.

Hansen, Merlin: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Hanson, Walter J., Port Chester, N. Y., assignor to Pitney-Bowes, Inc., Stamford, Conn. Tape control device. 2,533,317, Dec. 12.

Hardy, William G., assignor to The McKay Company, Pittsburgh, Pa. Mechanically operated antiskid device for vehicle wheels. 2,533,244, Dec. 12.

Harike, George E., College Park, Ga., assignor to Tennessee Copper Company, New York, N. Y. Producing copper sulfate. 2,533,245, Dec. 12.

Harman Distributors, Inc., assignee: *See*—
Spence, George H.

Harmison, Charles R.: *See*—
Singher, Heron O., and Harmison.

Harr, Herman H., Verona, N. J. Beverage preparing and dispensing apparatus. 2,533,930, Dec. 12.

Harrah, Charles J.: *See*—
Newcomb, Richard L., and Harrah.

Harris, Charles R., Lockport, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogen peroxide by the partial oxidation of hydrocarbons. 2,533,581, Dec. 12.

Harris, Hubert, and L. M. Ware, assignors to Auburn Research Foundation, Auburn, Ala. Apparatus for processing plastic material. 2,533,796, Dec. 12.

Harrison, Bertram M., Wellesley, Mass. System for testing hearing. 2,533,667, Dec. 12.

Harrison, William H., York, Pa. Lagging for use on belt pulleys. 2,533,456, Dec. 12.

Hart, Geoffrey W., Stoke Poges, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electronic range finding apparatus. 2,533,670, Dec. 12.

Hartford-Empire Company, assignee: *See*—
Dailey, Francis N.
Lyle, Aaron K.

Hartford National Band and Trust Company, assignee and trustee: *See*—
Coeterier, Frederik.
Kronouer, Johan G., Lips, and Prakke.
Vivie, Wilhelmus L. L.

Hartford National Bank and Trust Company, assignee, trustee: *See*—
Groenenberg Maarten J.

Hartley, Emmett C., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,533,931, Dec. 12.

Hartman, Richard A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,533,797, Dec. 12.

Hartough, Howard D., Pitman, and S. L. Meisel, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. 2-thenylaminea. 2,533,798, Dec. 12.

Hartwig, Edward C., Tonawanda, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Timer. 2,533,318, Dec. 12.

Hartwig, Edward C., Tonawanda, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic sequence timer. 2,533,369, Dec. 12.

Hasche, Rudolph L., Johnson City, assignor to Tennessee Eastman Corporation, Kingsport, Tenn. Furnace with jet cooling. 2,533,457, Dec. 12.

Hasselhorn, Walter C., assignor to Cook Electric Company, Chicago, Ill. Making metal bellows. 2,534,123, Dec. 12.

Hasselhorn, Walter C., assignor to Cook Electric Company, Chicago, Ill. Fabricating bellows. 2,534,124, Dec. 12.

Haug, Thaddeus L. E., Berkeley, Calif. Pipe support. 2,533,370, Dec. 12.

Hausheer, Walter E.: *See*—
Byerly, Oliver M.

Hayes, Foster F., Paducah, Ky. Draft key retainer. 2,534,125, Dec. 12.

Hawkins, Roe C.: *See*—
Hinckley, Harold A., and Hawkins.

Hawkins, Victor A., Brooklyn, N. Y. Shade roller winding device. 2,534,020, Dec. 12.

Hayek, Arthur F., Pleasantville, N. Y. Card feeding device. 2,533,932, Dec. 12.

Haydu, Bartley A., Detroit, Mich. Umbrella cover mounting. 2,533,799, Dec. 12.

Hayes, Earl T., and F. P. Williams, Salt Lake City, Utah, and W. M. Sternberg, Long Beach, Calif. Production of lithium chloride from spodumene. 2,533,246, Dec. 12.

Hazard, Charles S., Andover, N. J., assignor to Neptune Meter Company. Registering and metering systems. 2,533,319, Dec. 12.

Hazeltine Research, Inc., assignee: *See*—
Bels, Basil A.

Hearn, James W. E., and F. B. Meech, assignors to Optical Measuring Tools Limited, Slough, England. Camera shutter. 2,533,800, Dec. 12.

Heath, Clarence W., Nottinghamshire, England, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Electrical socket. 2,533,933, Dec. 12.

Heilig, William R., Chicago, Ill. Tweezers. 2,533,801, Dec. 12.

Heiman, Melvin: *See*—
Risberg, David, and Heiman.

Heine, Hermann, assignor to Ernst Leitz G m b H, Wetzlar, Germany. Holder for microobjectives. 2,533,371, Dec. 12.

Helmus, Weldon G., Ridgewood, N. J., assignor to Fair Lawn Finishing Company. Web feeding of textile materials. 2,533,247, Dec. 12.

Helmus, Weldon G., Ridgewood, N. J., assignor to Fair Lawn Finishing Company. Web feeding of textile materials. 2,533,248, Dec. 12.

Henchert, John, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Easy opening container. 2,533,934, Dec. 12.

Henschen, Edgar: *See*—
Dennis, Stanley W., and Henschen.

Henson, Robert L., Jr., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Seismic detector. 2,533,249, Dec. 12.

Hercules Powder Company, assignee: *See*—
Mertz, Edwin T.
Stuart, Joseph H.

Herzog, Charles M., Rahway, N. J. Cord actuated spinning toy. 2,533,935, Dec. 12.

Herzstark, Curt, Mauren, Liechtenstein. Zeroizing mechanism. 2,533,372, Dec. 12.

Hess, Frederic O., Philadelphia, F. Maud and E. F. Stoerts, North Hills, assignors to Selas Corporation of America, Philadelphia, Pa. Heating apparatus for heating ends of elongated workpieces in a continuous process. 2,534,021, Dec. 12.

Hetzel, Stanford J., Cheltenham, assignor to Sun Oil Company, Philadelphia, Pa. Ester of 1,5-pentanediol and its preparation. 2,533,250, Dec. 12.

Hickey, George J., Pawtucket, R. I. Expansion buckle. 2,534,200, Dec. 12.

Hicks, Charles R., Jackson, Miss. Adjustable eraser for pencils. 2,533,668, Dec. 12.

Higgins, Eric B., Tewin Wood, England, assignor to Tewin Industries Inc., County of New York, N. Y. Manufacture of salts of 2:1-hydroxynaphthoic acid. 2,534,022, Dec. 12.

Higley, Frank R., Cleveland Heights, assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Forced air furnace having scroll type heat exchanger. 2,533,458, Dec. 12.

Hill, Harry C., Pittsburgh, Pa. Coal heaver. 2,533,886, Dec. 12.

Hill, Philip: *See*—
Ridgway, John A., Jr., and Hill.

Hill, Stuart S., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Time based circuit for cathode-ray oscillographs. 2,533,251, Dec. 12.

Hill, Thomas A., West Orange, assignor, by mesne assignments, to Elastic Stop Nut Corporation of America, Union, N. J. Coupling. 2,533,885, Dec. 12.

Hillgren, Carl A., Los Angeles, Calif. Lock. 2,533,582, Dec. 12.

Hilkemeier, Louis G.: *See*—
Devine, Bernard F., and Hilkemeier.

Hinckley, Harold A., and R. C. Hawkins, Long Beach, Calif. Circumcision instrument. 2,533,373, Dec. 12.

Hinckley, John N., Belmont, Mass. Pump. 2,533,252, Dec. 12.

Hings, Donald L., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Selective amplifier. 2,533,802, Dec. 12.

Hings, Donald L., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Audio controlled limiter. 2,533,803, Dec. 12.

Hirschhorn, Sidney H., Paterson, N. J. Centric relator. 2,534,023, Dec. 12.

Hitchcock, Rex B., Evanston, Ill., assignor to International Harvester Company. Tractor mower hitch. 2,533,804, Dec. 12.

Hoare, Robert G.: *See*—
Neilson, Christopher B. V., and Hoare.

Hochbaum, Norman, New York, N. Y. Panty. 2,534,024, Dec. 12.

Hofmann, Albert: *See*—
Stoll, Arthur, Hofmann, and Troxler.

Holford, Frank L.: *See*—
Wilhide, Glenn C., Baker, and Holford.

Holley, Majure C., St. Louis County, Mo. Composite piston ring. 2,533,805, Dec. 12.

Holliday, Clarence E., Duncan, Nebr. Flag holder. 2,533,459, Dec. 12.

Hollingsworth, Robert Q., Atlanta, Ga., assignor to American Engineering Corporation. Bobbin gear assembly for roving frames. 2,533,669, Dec. 12.

Hollstein, Oswald C., Secaucus, N. J., assignor to F-R Machine Works, Woodside, N. Y. X-ray speculum. 2,534,126, Dec. 12.

Holmes, Charles H., and J. L. Snyder, assignors to H. O. Kesler and I. G. Merner, Chicago, Ill. Aquarium aerator. 2,533,936, Dec. 12.

Holzapfel, Harry R., Richmond, Ind. Bottle. 2,533,806, Dec. 12.

Hope, Samuel N., Wauwatosa, assignor to Griffith-Hope Company, West Allis, Wis. Paper cup dispenser. 2,534,169, Dec. 12.

Hopp, Harold C., Des Plaines, Ill., assignor, by mesne assignments, to Frigid Transport Company, Inc., New York, N. Y. Mobile refrigeration unit. 2,533,583, Dec. 12.

Horvath, Alex, Chicago, Ill. Oscillating rack actuated drive. 2,533,807, Dec. 12.

Houdaille-Hershey Corporation, assignee: *See*—
Balmer, James G., Jr.

Houdry Process Corporation, assignee: *See*—
Milliken, Thomas H., Jr., and Lebels.

Howard, Royal V., San Francisco, Calif. Automatic regulating system and peak limiter. 2,533,253, Dec. 12.

Howden, James, & Company Limited, assignee: *See*—
Nelson, William.

Howe, John R., Denver, Colo. Adjustable elevation grain loader. 2,533,261, Dec. 12.

Howe, Wallace L., West Boylston, assignor to Norton Company, Worcester, Mass. Manufacturing vitrified grinding wheels. 2,534,127, Dec. 12.

Howe, Wallace L., West Boylston, assignor to Norton Company, Worcester, Mass. Dry granular mix. 2,534,128, Dec. 12.

Howe, Wallace L., West Boylston, assignor to Norton Company, Worcester, Mass. Dry granular mix. 2,534,129, Dec. 12.

Howes, Donald A., and T. Tait, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Production of aviation or motor fuels. 2,534,025, Dec. 12.

Howlett, John, Tonbridge, and W. L. Wood, Hull, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of isopropyl alcohol from propylene. 2,533,808, Dec. 12.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Pole guard. 2,534,170, Dec. 12.

Huck, Alfred J., assignor to Knapp-Monarch Company, St. Louis, Mo. Manufacture of electric cables. 2,533,460, Dec. 12.

Hughes Tool Company, assignee: *See*—
Morlan, Erwin A., and Woods.
Woods, Henry B.
Woods, Henry B., and Scott.

Hull, Donald R., Newport, D. P. Phillips, Wilmington, Del., and N. H. Tate, Chadd's Ford, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Rotary gear-type metering pump. 2,533,320, Dec. 12.

Hulst, George D., Jr., Upper Montclair, N. J., assignor to Radio Corporation of America. Station selection apparatus for Loran receivers. 2,533,887, Dec. 12.

Hultgren, William H.: *See*—
Kovacs, Julius P., and Hultgren.

Hunt, William R., Fort Wayne, Ind., assignor to General Electric Company. Wire tensioning device. 2,534,130, Dec. 12.

Hunter Douglas Corporation, assignee: *See*—
Hunter, Joseph L., and Martin.

Hunter, Joseph L., and T. Martin, assignors to Hunter Douglas Corporation, Riverside, Calif. Venetian blind ladder. 2,533,584, Dec. 12.

Hurxthal, Frederick E., Glenside, assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Web looping device for festoon type driers. 2,534,026, Dec. 12.

Hushley, Walter J., and W. M. Siebert, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protection of phosphors from attack by alkali vapors. 2,533,809, Dec. 12.

Hutter, Clemens A., assignor to Nox-Rust Chemical Co., Chicago, Ill. Carton having metal corrosion inhibiting characteristics. 2,534,201, Dec. 12.

Hybinette, Sven E., and F. C. Cary, Wilmington, Del. Producing hydrogen. 2,533,937, Dec. 12.

Hyland, William A., Horicon, Wis., assignor to John Deere Van Brunt Company. Dirt guard for grain drills. 2,533,874, Dec. 12.

Hyle, Jacob A., deceased, Pittsburgh, Pa.; Fidelity Trust Company, administrator of said J. A. Hyle. Rail anchor. 2,533,875, Dec. 12.

Hypro Engineering Co., assignee: *See*—
Sadler, Harry J., and Cook.

Ideal Novelty & Toy Co., assignee: *See*—
Richards, Frank A., and Arliss.

Ilford Limited, assignee: *See*—
Edwards, Harry D.
Edwards, Harry D., and Kendall.
Kendall, John D., and Doyle.

Illsley, Graydon F., Omaha, Nebr. Electronic musical instrument. 2,533,461, Dec. 12.

Imperial Chemical Industries Limited, assignee: *See*—
Thomson, Robin H. K.

Ingram, Maxwell, assignor to Pilot Marine Corporation, New York, N. Y. Electrode assembly. 2,533,462, Dec. 12.

Institute of Gas Technology, assignee: *See*—
Mdkler, Lev A.

Institute of Inventive Research, assignee: *See*—
Slick, Polly N.

Interchemical Corporation, assignee: *See*—
Bernardi, Dominic J., and Dostal.
Linkletter, Olive-Sue, and Johnson.

International Business Machines Corporation, assignee: *See*—
Blakely, Robert T.

International Harvester Company, assignee: *See*—
Backnecht, Fred M.
Hitchcock, Rex B.
Karlsson, Elof K.
Lee, Fred A., and Shappell.
Mott, Carl W.

International Latex Corporation, assignee: *See*—
Spanel, Abraham N., Andrews, and Owen.

International Standard Electric Corporation, assignee: *See*—
Cronvall, Lars P., and Winkler.
Felsenheld, Robert A.
Gent, Alfred W., and Wallis.
Hill, Stuart S.
Lehmann, Gerard J.
Muller, Jean J.

Iron Fireman Manufacturing Company, assignee: *See*—
Schweickart, William M., and Julyan.
Wright, Richard C.

Irvan, Karl W., assignor to Orchard Industries, Inc., Detroit, Mich. Fishing rod handle. 2,534,027, Dec. 12.

Isherwood, Sir Joseph W., & Co., Ltd., assignee: *See*—
Stewart, John W.

Ives, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Two-bath direct positive photographic process. 2,533,463, Dec. 12.

Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of polyethylene terephthalate. 2,534,028, Dec. 12.

Jacob, Frederick N., E. R. Stout, and L. Miller, assignors to Aladdin Industries, Incorporated, Chicago, Ill. Wide band calibrated tuner and inductor for use therewith. 2,533,810, Dec. 12.

Jacobs, Phillip C., Jr., Newtonville, Mass., assignor, by mesne assignments, to The Acro Manufacturing Co., Columbus, Ohio. Mounting snap action switch blades. 2,533,671, Dec. 12.

James, Robert F., Mahwah, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Food treating and storing refrigerator and method. 2,533,732, Dec. 12.

Jansson, Gustav E.: *See*—
Ainsworth, Chester D., and Jansson.

Jasper, John W., assignor to Eastman Kodak Company, Rochester, N. Y. Rack for supporting flat metal sheets in electroplating operations. 2,533,464, Dec. 12.

Jeffrey, Douglas C., Jr.: *See*—
Amos, Stephen E., and Jeffrey.

Jenkins, James L., Milwaukee, Wis., assignor, by mesne assignments, to Associated Industries, Inc. Rotary brush means for shoe shining machines. 2,534,131, Dec. 12.

Jenkins, Reginald T., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Clapper for telephone ringers. 2,533,465, Dec. 12.

Jenks, Frederic A., Rockville Centre, N. Y., assignor to The Sperry Corporation. Cross pointer flight instrument. 2,533,262, Dec. 12.

Jenner, Edward L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters of aliphatic monocarboxylic acids and polybutadiene alcohols and preparing the same. 2,533,938, Dec. 12.

Jenner, Edward L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Acetic acid esters of aralkyl alcohols and their production. 2,533,939, Dec. 12.

Jensen, Hans A., Lommedalen, near Oslo, Norway. Extensible ski pole. 2,533,733, Dec. 12.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Juice extracting device with vibrating strainer. 2,533,811, Dec. 12.

Jirsa, Emil F., M. Hansen, and C. W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co. Hydraulic mechanism. 2,533,466, Dec. 12.

Johns-Manville Corporation, assignee: *See*—
Poltorak, Emil J.

Johns, Winthrop A.: *See*—
Davis, Harold W., and Johns.

Johnson, Arne B.: *See*—
Hanks, Marshall W., and Johnson.

Johnson, Carroll L.: *See*—
Moore, Harry H., and Johnson.

Johnson, Ervin T., Huron, S. Dak. Sewing-machine attachment. 2,533,467, Dec. 12.

Johnson, Fred O., Anchorage, Alaska. Making refractory molds. 2,533,585, Dec. 12.

Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Antitelescoping coupler. 2,533,940, Dec. 12.

Johnson, Gordon, Company, assignee: *See*—
Johnson, Gordon W.

Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry shackle. 2,533,941, Dec. 12.

Johnson, John G. A., New York, N. Y. Apparatus and method for removing excess mixing water from plastic concrete. 2,533,263, Dec. 12.

Johnson, Joyce L.: *See*—
Linkletter, Olive-Sue, and Johnson.

Johnson-March Corporation, assignee: *See*—
Mau, George A.

Johnson, S. C., & Son, Inc., assignee: *See*—
Newhall, Joseph F. P., and Bridgeman.

Johnson, Walter S.: *See*—
Wilcox, Granville M., and Johnson.

Jones, Basil E.: *See*—
Peterson, William H., and Jones.

Jones, Chesney L., Haledon, N. J. Hinged lamp guard. 2,533,812, Dec. 12.

Jones, David D.: *See*—
Edwards, Karl C., and Jones.

Jones, James E., Morehead City, N. C., assignor of forty-five per cent to W. Krzeszewski, New Haven, Conn. Anchor. 2,533,586, Dec. 12.

Jones, John L., Los Angeles, Calif., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Copolymerization of maleic anhydride and allyl esters of long chain monocarboxylic acids. 2,533,376, Dec. 12.

Jones, Joseph M., Lexington, Ky. Tobacco elevator. 2,533,813, Dec. 12.

Jongedyk, Ralph, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Extruding apparatus. 2,533,942, Dec. 12.

Julyan, Fred G.: *See*—
Schweickart, William M., and Julyan.

Jurgeleit, Herbert F., Oceanside, assignor to United States Rubber Company, New York, N. Y. Injection molding unit. 2,533,468, Dec. 12.

Jurs, Peter C., Oakland, assignor to Shand and Jurs Company, Berkeley, Calif. Valve construction for gauging tapes. 2,533,264, Dec. 12.

Justiz, Eudaldo M., Habana, Cuba. Immersion electric heater. 2,533,469, Dec. 12.

Kagan, Ralph: *See*—
Gerstein, Harry, and Kagan.

Kahn, Leo M., New York, N. Y. Cleaning or laundry machine. 2,533,888, Dec. 12.

Kahnke, Joseph: *See*—
Apker, LeRoy, and Kahnke.

Kapelis, Socrates H., El Cerrito, Calif. Bending apparatus. 2,533,470, Dec. 12.

Karlsson, Elof K., Moline, Ill., assignor to International Harvester Company. Wagon elevator throw-out mechanism. 2,533,814, Dec. 12.

Kasten, Walter, Franklin, assignor to Skinners Motors, Inc. (Delaware), Detroit, Mich. Internal-combustion engine ported sealing-ring positioning means. 2,534,029, Dec. 12.

Kaufman, Charles W., Tenafly, N. J., assignor to General Foods Corporation, New York, N. Y. Pectin jelly compositions. 2,533,471, Dec. 12.

Kearney & Trecker Corporation, assignee: *See*—
Armitage, Joseph B., and Barker.

Keef, Dennis W., Portland, Oreg., assignor to Phillips Tutch-Latch Company. Door latch. 2,533,377, Dec. 12.

Keefe, David P., Marblehead, Mass. Photographic apparatus. 2,534,132, Dec. 12.

Keefer, Walter L., assignor to Pangborn Corporation, Hagerstown, Md. Tumbling mill. 2,533,265, Dec. 12.

Keener, Brooks H.: *See*—
Dice, Robert P., and Keener.

Kelzer, Eugene O., Princeton, N. J., assignor to Radio Corporation of America. Method and apparatus for determining time from target by signal reflection. 2,533,889, Dec. 12.

Keller, Edwin H., Wawa, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Antifreeze composition. 2,534,030, Dec. 12.

Kelly, Eduardo V., Habana, Cuba. Filter rack. 2,533,815, Dec. 12.

Kelman, William L., Providence, R. I. Fluorescent light socket. 2,533,734, Dec. 12.

Kempenaar, Ralph B., assignee: *See*—
Van Arkel, Ralph W.

Kendall, John D.: *See*—
Edwards, Harry D., and Kendall.

Kendall, John D., and F. P. Doyle, assignors to Ilford Limited, Ilford, England. Cyanine dyestuff intermediates. 2,533,816, Dec. 12.

Kesler, H. O., assignee: *See*—
Holmes, Charles, and Snyder.

Keyes, Grafton H., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Unsymmetrical oxonol filter and antihalation dyes. 2,533,472, Dec. 12.

Keystone View Company, assignee: *See*—
Brock, Frederick W.
Mast, Gifford M., and Gannett.

Kille, Lindley A., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Motor speed control system. 2,533,473, Dec. 12.

King, Bertell W., Brooklyn, N. Y. Variable pitch propeller. 2,533,321, Dec. 12.

King, Hadi, Redondo Beach, Calif. Roofing. 2,533,378, Dec. 12.

King, William J., Brighton, England. Device for measuring angles and other dimensions. 2,533,890, Dec. 12.

Kirby, James B., West Richfield, Ohio. Filter cleaner for vacuum dust collectors. 2,534,171, Dec. 12.

Kirkpatrick, Herwald, G., Edgecliff, near Sydney, New South Wales, Australia. Centrifugal clutch. 2,534,133, Dec. 12.

Kirkpatrick, Herwald G., Edgecliff, near Sydney, New South Wales, Australia. Automatic transmission gear box. 2,534,134, Dec. 12.

Kitson, Alfred P., United States Army, Aptos, Calif. Collapsible and portable wardrobe having flexible walls and shelves. 2,533,333, Dec. 12.

Kittredge, Arthur E., Audubon, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa. Controller. 2,533,587, Dec. 12.

Klein, Charles H., Cleveland, Ohio., assignor to The National Telephone Supply Company. Die head device. 2,533,943, Dec. 12.

Klingens, Cornelis, La Porte, Ind., assignor to U. S. Slicing Machine Company, Inc. Slicing machine with swinging knife with stacking device. 2,534,172, Dec. 12.

Klippel, Kenneth L.: *See*—
Sherwood, John R., and Klippel.

Knapp-Monarch Company, assignee: *See*—
Huck, Alfred J.

Knezo, John, Jr., Garwood, assignor to Breeze Corporations, Inc., Newark, N. J. Engine starter. 2,533,379, Dec. 12.

Knight, George C., Company, assignee: *See*—
Koonter, Carlton G.

Kober, Saul, New York, N. Y. Beach umbrella. 2,533,322, Dec. 12

Koch, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Cemented transparency. 2,533,474, Dec. 12.

Kollmorgen Optical Corporation, assignee: *See*—
Rawlings, John L.

Kollsman, Paul, New York, N. Y. Defrosting system for refrigerators. 2,534,031, Dec. 12.

Kollsman, Paul, New York, N. Y. Refrigerator defrosting system. 2,534,032, Dec. 12.

Kolstad Company, assignee: *See*—
Chapman, Harvey A., and Livingston.

Kondor, Karel, New York, N. Y. Three-dimensional layout equipment. 2,533,588, Dec. 12.

Koonter, Carlton G., Fairhaven, assignor to George C. Knight Company, Oak Park, Mich. Rearview mirror for motor vehicles. 2,533,475, Dec. 12.

Koskinen, Arthur A., Sacramento, Calif. Toggle actuated slidable jaw wrench. 2,533,817, Dec. 12.

Kossovitch, Dimitry, Levallois-Perret, France. Double-acting electric stove. 2,533,672, Dec. 12.

Kovacs, Julius P., Newark, and W. H. Hultgren, Roselle Park, assignors to PurOlator Products, Inc., Newark, N. J. Filter. 2,533,266, Dec. 12.

Kraft, Wheaton W., Scarsdale, assignor to The Lummus Company, New York, N. Y. Feed means for the reboiler of a fractionating column. 2,534,173, Dec. 12.

Krag, Franz K., Chicago, Ill. Fulcrum type bottle opener. 2,533,818, Dec. 12.

Kronfield, Frank J., Toledo, Ohio. Fastener for cinematographic films. 2,533,819, Dec. 12.

Kronouer, Johan G., E. M. H. Lips, and F. Prakke, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Making sealed glass vessels. 2,533,589, Dec. 12.

Krzeszewski, Walter, assignee: *See*—
Jones, James E.

Kutik, William R., Jr., West Milford, assignor to P. P. Clark, Fairlawn, N. J. Folding plastic book cover. 2,533,590, Dec. 12.

Kymin Osakeyhtio-Kymmene Aktiebolag, assignee: *See*—
Sevón, Johan W., and Sundman.

Le Barre, Dwight, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Bathtub mounting. 2,533,591, Dec. 12.

La Brie, Ludger E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutch. 2,534,033, Dec. 12.

La Brie, Ludger E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Clutch. 2,534,034, Dec. 12.

Lachatre, Louis, La Ferte-Alais, France. Spring nut lock. 2,534,035, Dec. 12.

Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Production of ketoesters. 2,533,944, Dec. 12.

Lahr, David L., and A. Schwitalla, St. Cloud, Minn. Front view mirror for vehicles. 2,534,135, Dec. 12.

Lamar Slide Fastener Corp., assignee: *See*—
Natzke, Alfred G.

La Marca, Louis J., Portsmouth, N. H. Detecting equipment. 2,533,820, Dec. 12.

Lamberty, Frederick R., Rockville Centre, A. S. Martins, New Hyde Park, and W. T. Wichman, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic telephone systems involving prepayment telephone lines. 2,533,476, Dec. 12.

Lamm, Uno, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Putting inverters out of and into function. 2,534,036, Dec. 12.

Lancor, Joseph H., Jr., East Williston, N. Y., assignor to The Sperry Corporation. Tracking apparatus. 2,533,267, Dec. 12.

Landon, Charles A., assignor to The Landon Equipment Company, Columbus, Ohio. Vault lowering device 2,533,592, Dec. 12.

Landon Equipment Company, The, assignee: *See*—
Landon, Charles A.

Langer, Nicholas, New York, N. Y., assignor, by mesne assignments, to Central Commercial Industries, Inc., Chicago, Ill. Electrical musical instrument. 2,533,821, Dec. 12.

Langille, Wilfred O., Chester, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Unitary shade, deformable reflector, and lens assembly. 2,534,037, Dec. 12.

Lankenau Hospital, The, assignee: *See*—
Floyd, Norman F.

Lanter, Clarence W., Bartlett, assignor to Breuer Electric Mfg. Company, Chicago, Ill. Combined blower and vacuum cleaner. 2,533,268, Dec. 12.

Lantz, Louis A., A. Schofield, and E. Spinner, assignors to The Calico Printers' Association Limited, Manchester, England. Pigments and molding powders comprising polyvinyl acetal resins dyed with vat dyes. 2,534,136, Dec. 12.

Lanz, Adrian B., Montreux, Switzerland. Safety ski binding. 2,534,038, Dec. 12.

Larsen, Jack: *See*—
Brinster, John F., and Larsen.

La Salle Designing Company, assignee: *See*—
Ginsburg, Albert S.

Laschenski, Joseph E., Springfield, assignor to Philco Corporation, Philadelphia, Pa. Tuning mechanism. 2,533,477, Dec. 12.

Lasserre, Francois A., Rayne, La. Junction box assembly. 2,533,673, Dec. 12.

Leavitt, Roger P., and W. M. White, assignors to Eastman Kodak Company, Rochester, N. Y. Automatic contact printer. 2,533,481, Dec. 12.

Lebels, Edward H., Jr.: *See*—
Milliken, Thomas H., and Lebels.

Lee, Charles M., and G. L. Barringer, assignors to Eastman Kodak Company, Rochester, N. Y. Temperature compensating means for lens mounts. 2,533,478, Dec. 12.

Lee, Floyd J., Fullerton, Calif., assignor to Akron Brass Mfg. Company, Inc., Wooster, Ohio. Fire hose support. 2,533,823, Dec. 12.

Lee, Fred A., and F. J. Shappell, Fort Wayne, Ind., assignors to International Harvester Company, Connecting rod and cap and making same. 2,533,822, Dec. 12.

Lee, Richard J. F.: *See*—
Cryer, John, Owens, and Lee.

Leed Company, The, assignee: *See*—
Root, Morris J., and Reed.

Legatski, Harold R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalyst chamber and heating same. 2,533,945, Dec. 12.

Leggat, Robert, Pretoria, Transvaal, Union of South Africa. Machine for molding building blocks of concrete or like cementitious material. 2,533,479, Dec. 12.

Lehane, Timothy J., and E. H. Burgess, Chicago, Ill., assignors, by mesne assignments, to Vapor Heating Corporation. Combined ventilation and heat control system. 2,534,174, Dec. 12.

Lehde, John W., Jr.: *See*—
Better, Bernard, and Lehde.

Lehmann, Gerard J., assignor to International Standard Electric Corporation, New York, N. Y. Pulse radio communication system. 2,533,269, Dec. 12.

Lehrhaupt, Maxwell: *See*—
Better, Philip, and Lehrhaupt.

Leibrook, Walton V.: *See*—
Greider, Harold W., and Leibrook.

Leininger, James E., and C. L. Seaton, Burbank, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Clutch. 2,533,480, Dec. 12.

Leitz, Ernst G m b H., assignee: *See*—
Heine, Hermann.

Lemke, Charles H., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cation exchange process. 2,533,593, Dec. 12.

Lemoine, Henri G., Talence, France. Machine for manufacturing twisted core chenille. 2,534,039, Dec. 12.

Leroy, Robert P., assignor to Centre National de la Recherche Scientifique, Paris, France. Device for studying the characteristics of a phenomenon. 2,533,594, Dec. 12.

Levesque, George N., Cranston, R. I., assignor to Brown and Sharpe Manufacturing Company. Portable vibrator-type tool. 2,533,946, Dec. 12.

Levy, Gustave and W. Simbrat, East Orange, assignors to National Union Radio Corporation, Orange, N. J. Electrooptical dark trace picture tube. 2,533,381, Dec. 12.

Levy, Louis, Passaic, N. J. Soap dispenser for plumbing fixtures. 2,533,380, Dec. 12.

Lewis, Robert C., assignor to The M B Manufacturing Company, Inc., New Haven, Conn. Vibration isolator pad. 2,534,137, Dec. 12.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Jones, John L.

Liberty, Planers, assignee: *See*—
Morey, Carl and Dingeldein.

Liesner, Charles E., assignor to Renseil Corporation, Detroit, Mich. Toy swing. 2,533,482, Dec. 12.

Linde Air Products Company, The, assignee: *See*—
Chelborg, Rudolph, and Young.
Skinner, George M.

Lindley, Frederick A., Flushing, assignor to Radio-Television Institute, Inc., New York, N. Y. Multiple section diaphragm loud-speaker. 2,534,040, Dec. 12.

Lindow, Rudolph F.: *See*—
Viall, George K., and Lindow.

Lindsay, Charles C., Roanoke, Ala. Belt drive assembly. 2,534,041, Dec. 12.

Linkletter, Olive Sue, Englewood, and J. L. Johnson, Fair Lawn, N. J., assignors to Interchemical Corporation, New York, N. Y. Alkyd resins. 2,533,270, Dec. 12.

Lipnicki, Bernard, and R. Lipnicki, Newington, Conn. Electric spoon. 2,533,947, Dec. 12.

Lipnicki, Romuald: *See*—
Lipnicki, Bernard and Romuald.

Lips, Eduard Maria Hendicus: *See*—
Kronouer, Johan G., Lips, and Prakke.

Livermon, Carl R., Roxobel, N. C. Road vehicle. 2,533,271, Dec. 12.

Livingston, Efner J.: *See*—
Chapman, Harvey A., and Livingston.

Locket, Sam P., Mexico, Mo. Heater construction, including door draft and closure means. 2,533,674, Dec. 12.

Lohr, James M., Morristown, assignor to Driver-Harris Company, Harrison, N. J. Electric resistance element and heat-treatment. 2,533,735, Dec. 12.

Lohr, James M., Morristown, assignor to Driver-Harris Company, Harrison, N. J. Electric resistance element and method of heat-treatment. 2,533,736, Dec. 12.

Lomartire, John, Cumberland, Md., assignor to Celanese Corporation of America. Preparation of esters. 2,533,328, Dec. 12.

Longenecker, Joseph B.: *See*—
Cleland, James E., and Longenecker.

Lorenz, Anton, Buffalo, N. Y. Sofa-bed with forward turning back. 2,534,175, Dec. 12.

Lorenz, Anton, Buffalo, N. Y. Combined sofa seat and bed. 2,534,176, Dec. 12.

Lorenz, Anton, Buffalo, N. Y., and H. Nock, Elizabeth, N. J. Combined sofa seat and bed. 2,534,177, Dec. 12.

Lorenz, Leo R., and R. Patterson, Muskegon, Mich., assignors to Anaconda Wire and Cable Company. Layer winding machine. 2,533,382, Dec. 12.

Loroco Industries Incorporated, assignee: *See*—
Tomarin, Harry A.

Losquadro, Michael A., Brooklyn, assignor to Antla Products, Hempstead, N. Y. Electric terminal system. 2,533,483, Dec. 12.

Love, Clifford R., Tulsa, Okla. Converting oil operated railway marker lamps to battery operated railway marker lamps. 2,534,042, Dec. 12.

Loweke, Erwin F., Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Master cylinder of telescopic construction. 2,533,824, Dec. 12.

Lowry, Glenn W., Osborn, Ohio. Draft bar rigging for railway cars. 2,533,825, Dec. 12.

Lucas, Jack E.: *See*—
Oppenheimer, Everett W., and Lucas.

Lukacs, Joseph J., New Rochelle, N. Y., and W. B. Strickler, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trainer for aircraft personnel. 2,533,484, Dec. 12.

Luketa, Frank J., Seattle, Wash. Reclining chair. 2,533,595, Dec. 12.

Lummus Company, The, assignee: *See*—
Brunjes, Austin S.
Collins, Raymond R.
Kraft, Wheaton W.
Reed, Carl S.
Reed, Carl S., and Schauble.
Schutte, August H., and O'Connor.

Luwa A.-G., assignee: *See*—
Carrette, Maurice.

Lyle, Aaron K., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for and method of charging batch to glass furnaces. 2,533,826, Dec. 12.

Lynes, Lionel, London, assignor to Oliver Vaughan Bulleid, Newham, Steyning, England. Frame structure for vehicles. 2,533,485, Dec. 12.

Lyons, Thomas W. G., Banning, Calif. Antivibration attachment for "Doall" machines. 2,533,272, Dec. 12.

M B Manufacturing Company, Inc., The, assignee: *See*—
Lewis, Robert C.

MacGregor, May, New York, N. Y. Exercising equipment. 2,533,273, Dec. 12.

Maciejewski, Tadeus J., Blackstone, Mass. Attachment for oil burners. 2,533,596, Dec. 12.

MacPhail, Angus, Hitchin, assignor to Theratronics Limited, London, England. Apparatus for shock therapy. 2,534,043, Dec. 12.

Magnusson, Magnus: *See*—
Symonds, Ralph F., and Magnusson.

Maier, August R., Oil City, Pa., assignor to Oil Well Supply Company. Master bushing for rotary oil well drilling machines. 2,533,597, Dec. 12.

Manco Mfg. Co., assignee: *See*—
Northcutt, Walter E.

Mankin, Arthur H.: *See*—
Sunstein, David E., and Mankin.

Man-Sew Corporation, assignee: *See*—
Sigoda, Victor J.

Mantell, Charles L., Manhasset, N. Y., assignor to United Merchants and Manufacturers, Inc., Wilmington, Del. Dissolution of regenerated cellulose with urea-alkali-stannate solvent. 2,533,598, Dec. 12.

Marathon Corporation, assignee: *See*—
Salvesen, Jorgen R. and Browning.

Marcus, Jerome R., and F. W. Turner, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Edge cleaning apparatus. 2,533,948, Dec. 12.

Marfield, Dwight, Pasadena, Calif. Heat distributing plate. 2,533,383, Dec. 12.

Marié, Georges R. P., Paris, France, assignor to Societe Francaise Sadir-Carpentier. Radio receiving system. 2,533,599, Dec. 12.

Marks, Max J.: *See*—
Schwartz, Martin W., and Marks.

Marquaire, Charles, Ugine, assignor to Societe D'Electro-Chimie, D'Electro-Metallurgie et des Acieries Electriques D'Ugine, Paris, France. Manufacture of permanent magnets. 2,534,178, Dec. 12.

Marquette Metal Products Company, The, assignee: *See*—
Pepper, Carl P.
Sacchini, Columbus R.

Merschner, Robert F., Homewood, assignor to Standard Oil Company, Chicago, Ill. Recovery of oxygenated compounds and hydrocarbons from mixtures thereof. 2,533,675, Dec. 12.

Marsh, Jordan Company, assignee: *See*—
Ely, George L.

Marshall, Daniel Q., Maderia, Ohio, assignor to General Electric Company. Protective device for gas turbines. 2,534,138, Dec. 12.

Marshall, William A., Jr., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Heater system. 2,533,486, Dec. 12.

Martin, Thomas: *See*—
Hunter, Joseph L., and Martin.

Martinez, Francisco M., Alcala de Guadaira-Sevilla, Spain. Apparatus for enciphering and deciphering cryptographic communications. 2,533,384, Dec. 12.

Martins, Arthur S.: *See*—
Lamberty, Frederick R., Martins, and Wichman.

Marx, George G., Detroit, Mich. Cable weight for hoists. 2,534,044, Dec. 12.

Massy, George H., Union Township, Union County, N. J. Journal bearing lubricator. 2,534,045, Dec. 12.

Mast, Gifford M., and W. K. Gannett, Davenport, Iowa, assignors to Keystone View Company, Meadville, Pa. Telebinocular instrument for conducting vision tests in industrial occupations. 2,533,385, Dec. 12.

Masters, Edwin L., Benton Harbor, Mich. Fertilizer spreader. 2,533,386, Dec. 12.

Matteson, Harold J., assignor to General Controls Co., Glendale, Calif. Refrigerant control system. 2,533,600, Dec. 12.

Matthews, Charles, and H. M. Wenger, East Earl, Pa. Barn cleaning apparatus. 2,533,676, Dec. 12.

Matulaitis, Victor E., and P. M. Byam, Rochester, N. Y., assignors to Fasco Industries, Inc. Bimetallic thermostatic element. 2,533,274, Dec. 12.

Mau, George A., Lakewood, Ohio, assignor to Johnson-March Corporation, Philadelphia, Pa. Valve construction for proportioning devices. 2,534,046, Dec. 12.

Maud, Fred: *See*—
Hess, Frederic O., Maud, and Stoertz.

Maurer, Spencer B., and H. P. Ebert, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Gas hammer. 2,533,487, Dec. 12.

Maus, Richard J., Buffalo, N. Y. Mounting for dial test indicators. 2,533,949, Dec. 12.

Maust, Marshall S., Scottdale, Pa. Apparatus for returning matrices to linotype machines. 2,533,488, Dec. 12.

Maybelline Company, assignee: *See*—
Baumgartner, John G.

McAneny, Michael J., Hillsboro, N. Mex. Strap fastening means. 2,533,275, Dec. 12.

McCall, Andrew A., Curwensville, Pa. Fire escape ladder and storage means therefor. 2,534,202, Dec. 12.

McClintock, LaZona, Enid, Okla. Dress trim. 2,533,891, Dec. 12.

McCord, William: *See*—
Groeber, Otto W., and McCord.

McCormick, Hazel G., Palo Alto, Calif. Metatarsal pad. 2,533,601, Dec. 12.

McCormick, Thomas B., Billings, Mont. Individual mounting for steerable wheels. 2,533,950, Dec. 12.

McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electronic device for timing toll calls and for signaling both subscriber and operator. 2,533,677, Dec. 12.

McCrimmon, Theron A., Bessemer, Ala. Vaporizing tray type oil burner. 2,533,678, Dec. 12.

McEwan, James J., assignor to The Batesville Casket Company, Batesville, Ind. Casket sealing means. 2,533,827, Dec. 12.

McEwan, James J., assignor to The Batesville Casket Company, Batesville, Ind. Casket sealing means. 2,533,828, Dec. 12.

McFarlane, John W., and C. E. Moses, assignors to Eastman Kodak Company, Rochester, N. Y. Print exposure computer. 2,533,489, Dec. 12.

McGrath, Joseph N.: *See*—
McGrath, Lloyd N. and J. N.

McGrath, Lloyd N. and J. N., Detroit, Mich. Fuel gauge for tractors. 2,533,490, Dec. 12.

McGraw Electric Company, assignee: *See*—
Gomersall, John R.
Osterheld, Clark M.

McIntyre, Brouwer D., assignor to Monroe Auto Equipment Company, Monroe, Mich. Spring seat construction. 2,534,047, Dec. 12.

McKay Company, The, assignee: *See*—
Hardy, William G.

McKeever, Charles H., Glenside, and G. H. Agnew, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of ester-acetals. 2,533,276, Dec. 12.

McLaughlin, Gordon F., Fort Worth, Tex. Closure for dispensing tubes and the like. 2,534,139, Dec. 12.

McLean, William S., Woodbury, assignor to National Union Radio Corporation, Orange, N. J. Method and apparatus for making dynodes. 2,533,387, Dec. 12.

McMahon, Jerome B., Wilmette, and T. A. Abbott, La Grange, Ill., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Valve control mechanism. 2,533,491, Dec. 12.

Meech, Frank B.: *See*—
Hearn, James W. E., and Meech.

Meisel, Seymour L.: *See*—
Hartough, Howard D., and Meisel.

Mekler, Lev A., assignor to Institute of Gas Technology, Chicago, Ill. Radiantly heated rotary carrier for destructive distillation. 2,533,492, Dec. 12.

Mendle, Alvin M., assignor, by mesne assignments, to Reconstruction Finance Corporation, St. Louis, Mo. Garment rack. 2,533,324, Dec. 12.

Mennesson, Marcel L., Neuilly-sur-Seine, France, assignor to Societe Solex. Carbureting device. 2,533,602, Dec. 12.

Merit Products, Inc., assignee: *See*—
Pokras, Harry.

Merner, I. G., assignee: *See*—
Holmes, Charles, and Snyder.

Merrill, Marcellus S., assignee: *See*—
Erickson, Lowell H.

Merryweather, Gerald, Cuyahoga Falls, Ohio. Storage bag for paintbrushes and the like. 2,533,829, Dec. 12.

Mertz, Edwin T., La Fayette, Ind., assignor to Hercules Powder Company, Wilmington, Del. Resolution of crude mother liquors obtained in manufacture of pentaerythritol. 2,533,737, Dec. 12.

Metzger, William J.: *See*—
Spence, Hubert L., and Metzger.

Meyer, Rudolph H. M.: *See*—
De Nie, Willem L. J., and Meyer.

Meyers, Fred N., Andover, assignor to The H. N. White Company, Cleveland, Ohio. Water key for trombones and the like. 2,533,388, Dec. 12.

Meyers, Fred N., Andover, assignor to The H. N. White Company, Cleveland, Ohio. Valve action mechanism for wind instruments. 2,533,389, Dec. 12.

Michals, Henry T., and O. N. Elsendrath, Milwaukee, Wis. Shoe last. 2,534,048, Dec. 12.

Michel, Benjamin F., Spokane, Wash. Cigarette crusher and container. 2,533,679, Dec. 12.

Miessner, Benjamin F., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J. Vibrator-exciting action. 2,533,830, Dec. 12.

Miessner Inventions, Inc., assignee: *See*—
Miessner, Benjamin F.

Miller, Carl J., Rochester, N. Y. Combination step and wall ladder. 2,533,391, Dec. 12.

Miller, Earle C., assignor to Riley Stoker Corporation, Worcester, Mass. Apparatus for regulating combustion in spreader stoker furnaces. 2,534,049, Dec. 12.

Miller, Harry R., assignor to George K. Garrett Company, Inc., Philadelphia, Pa. Roller skate construction. 2,533,277, Dec. 12.

Miller, Henry, Superior, Wis. Live bait holder. 2,533,390, Dec. 12.

Miller, Ivan O., Fullerton, W. N. Sutliff, Whittier, D. U. Shaffer, and K. E. Waggener, assignors to Shaffer Tool Works, Brea, Calif. Making chains. 2,533,325, Dec. 12.

Miller, J. M. W., assignee: *See*—
Edwards, William C.

Miller, Leonard: *See*—
Jacob, Frederick N., Stout, and Miller.

Milliken, Thomas H., Jr., Rose Valley, and E. H. Lebels, Jr., Green Ridge, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Preparation of bead hydrogel and apparatus therefor. 2,533,278, Dec. 12.

Miskowski, Thomas A.: *See*—
Schulz, Eugene, Sr., and Mishowski.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Wannamaker, William H., Jr.
Wills, Walter P.

Mitchell, Donald H., Chicago, Ill., assignor to Motorola, Inc. Portable radio device. 2,533,493, Dec. 12.

Mitchell, Iverson O., Jr., Washington, D. C. Adjustable article support. 2,533,494, Dec. 12.

Moe, J. Edgar, assignor to The Bullard Clark Company, Danielson, Conn. Picker. 2,534,203, Dec. 12.

Moffett, Ewell, Palmdale, Calif. Fishing leader dispenser. 2,533,495, Dec. 12.

Molla, Charles P., New Hyde Park, assignor to Molla Incorporated, New York, N. Y. Knockdown table. 2,533,831, Dec. 12.

Molla Incorporated, assignee: *See*—
Molla, Charles P.

Monitor Controller Company, The, assignee: *See*—
Frese, Joseph F.

Monroe Auto Equipment Company, assignee: *See*—
McIntyre, Brouwer D.

Monroe, Charles Z., assignor to Ex-Cell-O Corporation, Detroit, Mich. Sealing mechanism. 2,533,832, Dec. 12.

Monsanto Chemical Company, assignee: *See*—
Baer, Massimo.
Buckley, Francis T., and Sido.
Emerson, William S.
Glick, Sanford E.
Mowry, David T.
Seymour, Raymond B.
Walter, Henry A.

Moore, Edgar S., Toronto, Ontario, Canada, assignor to Air-A-Feed Equipment, Inc., Worcester, Mass. Manually applied power-driven machine for automatically delivering and driving a fastener. 2,534,140, Dec. 12.

Moore, George A., assignor to National Biscuit Company, New York, N. Y. Display package and tray. 2,533,738, Dec. 12.

Moore, Harry H., Washington, D. C., and C. L. Johnson, Hyattsville, Md. Pressure indicating arbor press. 2,533,279, Dec. 12.

Moore, William C., Chicago, Ill., assignor to Motorola, Inc. Low-level bridge discriminator. 2,533,496, Dec. 12.

Moran, John F., Brooklyn, N. Y. Building block molding apparatus. 2,533,603, Dec. 12.

Morey, Carl, and H. A. Dingeldein, Hamilton, Ohio, assignors to Liberty Planers. Tool lifter for planers. 2,533,680, Dec. 12.

Morgan, Jack F. : *See*—
Grimmel, Harry W., and Morgan.

Morlan, Erwin A., and H. B. Woods, assignors to Hughes Tool Company, Houston, Tex. Drill cutter. 2,533,258, Dec. 12.

Morrill, Weston, and C. G. Dunn, Pittsfield, Mass., and R. Ward, Richland, Wash., assignor to General Electric Company. Heat-treatment of cold rolled silicon steel strip. 2,534,141, Dec. 12.

Morton, Cecil J., Coventry, and T. H. Woodfield, Birmingham, England, assignors to General Electric Company. Bearing mounting. 2,534,142, Dec. 12.

Moseley, James T. W., Clayton, assignor to Carter Carburetor Corporation, St. Louis, Mo. Manifold construction. 2,533,604, Dec. 12.

Moses, Clyde E. : *See*—
McFarlane, John W., and Moses.

Motorola, Inc., assignee : *See*—
Mitchell, Donald H.
Moore, William C.

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Opposed hydraulic ram power transmission, including hydraulically operated power transmission stop. 2,533,833, Dec. 12.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparing amides. 2,534,204, Dec. 12.

Mueller, Paul M., Rome, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa. Apparatus for welding slabs. 2,533,605, Dec. 12.

Mulhern, Laurence H., and N. Spugnardi, Auburn, Maine, assignors to United Shoe Machinery Corporation, Flemington, N. J. Sole-margin cementing machine. 2,533,497, Dec. 12.

Muller, Jean J., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Multiunit vacuum tube. 2,533,280, Dec. 12.

Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic counting ring. 2,533,739, Dec. 12.

Munday, Charles H. : *See*—
Coursey, Philip R., Munday, and Gough.

Munson, Donald G., St. Paul, Minn. Magnet support for radio speakers. 2,533,498, Dec. 12.

Munson, Wilden A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic range finder. 2,533,499, Dec. 12.

Murray, Alan E., New York, N. Y. Roller skate. 2,533,740, Dec. 12.

Murray, Otis W., Fords, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process of treating photographic layers containing color formers with metal salt hardening agents. 2,534,050, Dec. 12.

N. V. Nederlandsche Vliegtuigenfabriek Fokker, assignee : *See*—
Backer, Willem A. J.

Nagel-Chase Mfg. Co., The, assignee : *See*—
Schultz, Edward.

Napoli, John, Monterey, Calif. Propulsion means for boats. 2,533,681, Dec. 12.

National Biscuit Company, assignee : *See*—
Moore, George A.

National Cash Register Company, The, assignee : *See*—
Mumma, Robert E.

National Malleable and Steel Castings Company, assignee : *See*—
Buckius, Albert O., and Willison.
Spence, Hubert L., and Metzger.

National Telephone Supply Company, The, assignee : *See*—
Klein, Charles H.

National Union Radio Corporation, assignee : *See*—
Levy, Gustave, and Simbrat.
McLean, William S.
Schramm, Raymond R.
Skellett, Albert M.

Natzke, Alfred G., assignor to Lamar Slide Fastener Corp., New York, N. Y. Wire gauge. 2,533,606, Dec. 12.

Neilson, Christopher B. V., Eagle Brow, Lym, and R. G. Hoare, assignors to Electro-Hydraulics Limited, Warrington, England. Torque equalizing means for aircraft landing gear brakes. 2,533,607, Dec. 12.

Nelson, Karl J., Cranford, N. J., assignor to Standard Oil Development Company. Fluidized low-temperature carbonization of coal. 2,534,051, Dec. 12.

Nelson, Peter N., Chicago, Ill. Cheese cutter. 2,533,682, Dec. 12.

Nelson, William, assignor to James Howden & Company Limited, Glasgow, Scotland. Operating mechanism for moving a rod or other member axially. 2,533,392, Dec. 12.

Nelson, William, assignor to James Howden & Company Limited, Glasgow, Scotland. Mechanism for moving a rod or other member in a straight line. 2,533,393, Dec. 12.

Neptune Meter Company, assignee : *See*—
Hazard, Charles S.

Neuhaus, Frederick, St. Louis, Mo. Portable structure. 2,533,683, Dec. 12.

Neuroth, John : *See*—
Gayring, Wallace F., and Neuroth.

Newcomb, Richard L., and C. J. Harrah, Denver, Colo. Pulverizing mill of the rolling mortar type. 2,533,684, Dec. 12.

Newell, William H., New York, N. Y., assignor to The Sperry Corporation. Hydraulic follow-up system. 2,533,306, Dec. 12.

Newhall, Joseph F. P., St. Petersburg, Fla., and W. A. Bridgeman, assignors to S. C. Johnson & Son, Inc., Racine, Wis. Apparatus for removing water by capillary action from moist perishables. 2,534,205, Dec. 12.

Newman, Waldo E., Toledo, Ohio. Pneumatic valve. 2,533,608, Dec. 12.

Nielsen, Ruth A. : *See*—
Akers, Ruth W.

Nikawitz, Edward J. : *See*—
Gump, William S., and Nikawitz.

Nile, Robert H., and M. S. Roberts, Wellsville, Ohio, assignors to The Sterling China Company. Chipping machine. 2,533,892, Dec. 12.

Nock, Harry : *See*—
Lorenz, Anton, and Nock.

Nolan, Terence M., and S. Gasper, Buffalo, assignors to Bell Aircraft Corporation, Wheatfield, N. Y. Manufacturing minutely orificed articles. 2,533,609, Dec. 12.

Nopco Chemical Company, assignee : *See*—
Dombrow, Bernard A.

Nordberg Manufacturing Co., assignee : *See*—
Talboys, Henry H., and Erickson.

Norden, Jesse, Woodmere, N. Y. Forming one-piece paper containers. 2,534,052, Dec. 12.

Nordquist, Robert G. : *See*—
Arenberg, Albert L., Nordquist, and Rahn.

Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Driving and steering mechanism for motor vehicles. 2,533,610, Dec. 12.

Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Controlled differential transmission mechanism. 2,533,611, Dec. 12.

Norris, Wendell H., assignee : *See*—
Anderson, Eric.

North American Aviation, Inc., assignee : *See*—
Warner, De Ver K.

Northcutt, Walter E., Chebanse, assignor to Manco Mfg. Co., Bradley, Ill. Metal strip cutter. 2,533,612, Dec. 12.

Norton Company, assignee : *See*—
Howe, Wallace L.

Nox-Rust Chemical Co., assignee : *See*—
Hutter, Clemens A.

Nurkiewicz, Ignatius, assignor to Stop-Fire, Inc., Brooklyn, N. Y. Fire extinguisher. 2,533,685, Dec. 12.

Nussbaum, William, New York, N. Y. Beautician's tray. 2,533,893, Dec. 12.

O'Connor, Ward F. : *See*—
Schutte, August H., and O'Connor.

Oestermeyer, Carl F. : *See*—
Donkin, William F., and Oestermeyer.

O'Halloran, Rosemary, Elizabeth, N. J., assignor to Standard Oil Development Company. Lubricating grease containing paraffin wax. 2,534,053, Dec. 12.

Oil Well Supply Company, assignee : *See*—
Maier, August R.

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Secondary accessory motor utilized as suction storage tank for windshield wipers. 2,533,613, Dec. 12.

Okress, Ernest C., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tuning means for magnetrons. 2,533,741, Dec. 12.

Oldroyd, Dorothy M. : *See*—
Goldblatt, Leo A., and Oldroyd.

Oliveau, John V., Mineola, N. Y., assignor, by mesne assignments, to Cleveland-Detroit Corporation. Beverage dispensing device. 2,533,281, Dec. 12.

Oliver, Mariano : *See*—
Rousseau, Wilfrid J., and Oliver.

Oppenheimer, Everett W., and J. E. Lucas, Butler, Pa., assignors to Armco Steel Corporation. Obtaining large grain size in silicon steel. 2,533,394, Dec. 12.

Optical Measuring Tools Limited, assignee : *See*—
Hearn, James W. E., and Meech.

Orchard Industries, Inc., assignee : *See*—
Irvan, Karl W.

Ortho Pharmaceutical Corporation, assignee : *See*—
Singher, Heron O., and Harmison.

Osborne, Glenn B., assignee : *See*—
Roach, Vernon A.

Osman, Ralph T., Whitefish Bay, Wis. Dispenser for shortening having an extruding piston operatively connected to the closure for the dispensing opening. 2,533,282, Dec. 12.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder. 2,533,614, Dec. 12.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Water heater. 2,533,615, Dec. 12.

Ottawa River Paper Company, The, assignee : *See*—
De La Foret, Norman F.

Otto, Hans P., San Francisco, Calif. Cylinder press embossing and producing the same. 2,533,834, Dec. 12.

Owen, Harold A. : *See*—
Spanel, Abraham N., Andrews, and Owen.

Owens, Jay C. : *See*—
Cryer, John, Owens, and Lee.

Pace, Edgar H., Montebello, and M. H. Pace, Whittier, Calif. Apparatus for freezing fluids. 2,533,616, Dec. 12.

Pace, Mac H. : *See*—
Pace, Edgar H. and M. H.

Pack, Samuel B., assignee : *See*—
Crook, Louis H.

Paine, Wilbur V., East Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Machine and process for separating liquid from sludge. 2,533,395, Dec. 12.

Palmer, Clayton D., Albert Lea, Minn. Baitless trap for minnows and small fish. 2,533,617, Dec. 12.

Palmer, Delos M., Toledo, Ohio. Thermal alarm device. 2,533,835, Dec. 12.

Pan American Refining Corporation, assignee : *See*—
Ridgway, John A., Jr., and Hill.

Pangborn Corporation, assignee : *See*—
Keefer, Walter L.

Parker Appliance Company, The, assignee : *See*—
Dahl, Carl P.
Hartley, Emmett C.
Schmohl, Leland H., and Habe.

Parkes, Ralph C., Glenside, Pa. Conveyer. 2,534,054, Dec. 12.

Parsons, Opie P., Charleston, W. Va. Pipe layout tool. 2,533,500, Dec. 12.

Patecell, Theodore C., Jackson Heights, N. Y. Convertible amphibian airplane. 2,534,206, Dec. 12.

Patent License Corporation, assignee : *See*—
Arenberg, Albert L., Nordquist, and Rahn.

Patriarche, Valance H., Ottawa, Ontario, Canada. Shock absorbing aircraft skid. 2,533,951, Dec. 12.

Patterson, Jack H., Waco, Tex. Throttle operating mechanism. 2,533,836, Dec. 12.

Patterson, Riley : *See*—
Lorenz, Leo R., and Patterson.

Pauley, Clarence E., Hopkinsville, Ky. Vehicle bumper and adjustable pipe rack. 2,533,837, Dec. 12.

Payne, Frank B., Oak Park, Ill. Keeper. 2,533,396, Dec. 12.

Peeps, Donald J., assignor to The De Vilbiss Company, Toledo, Ohio. Spray gun. 2,533,953, Dec. 12.

Pendleton, Wesley W., and H. M. Philofsky, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical insulation comprising polytetrafluoroethylene. 2,533,501, Dec. 12.

Pennsylvania Furnace and Iron Company, assignee : *See*—
De Frees, Joseph H.

Pepper, Carl P., Plainfield, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio. Clutch spring anchorage. 2,533,952, Dec. 12.

Peter, Charles R., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric switch with flexible lead deformed by torsion. 2,533,397, Dec. 12.

Peterson, Henry : *See*—
Strain, Daniel E., and Peterson.

Peterson, John B., deceased, Bethesda, Md. ; R. L. Peterson, administratrix. Gyroscopic sextant. 2,533,686, Dec. 12.

Peterson, Ruth L., administratrix : *See*—
Peterson, John B.

Peterson, Willard S., Astoria, N. Y. Snap fit interlocking checker. 2,534,055, Dec. 12.

Peterson, William H., Chicago, and B. E. Jones, Flossmoor, Ill. Purse light. 2,534,179, Dec. 12.

Petre, John R. : *See*—
Brenner, Robert W., and Petre.

Philco Corporation, assignee : *See*—
Laschenski, Joseph E.
Sunstein, David E., and Mankin.

Phillips, Richard T., Seattle, Wash. Adjusting means for hinges. 2,533,502, Dec. 12.

Phillips, Chester S., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Centrifugally activated circuit changing mechanism. 2,534,143, Dec. 12.

Phillips, Daniel P. : *See*—
Hull, Donald R., Phillips, and Tate.

Phillips Petroleum Company, assignee : *See*—
Carnell, Paul H.
De Boisblanc, Deslonde R.
Legatski, Harold R.
Schulze, Walter A.

Phillips Petroleum Company, assignee : *See*—
Weber, Louis J.
Weber, Louis J., and Robinson.

Phillips Tutch-Latch Company, assignee : *See*—
Keef, Dennis W.

Philofsky, Harold M. : *See*—
Pendleton, Wesley W., and Philofsky.

Phoenix Products Co., assignee : *See*—
Wordingham, Maurice G.

Picking, Jay W., Cleveland, and W. J. Brown, Cleveland Heights, Ohio. Voltage splitting circuit. 2,534,207, Dec. 12.

Pierce, Albert C., United States Marine Corps. Trigger mechanism. 2,533,283, Dec. 12.

Pierce, Norton T., Reading, Mass. Calculating machine. 2,533,954, Dec. 12.

Pilot Marine Corporation, assignee : *See*—
Ingram, Mexwell.

Pimley, Gordon H., Preston, assignor to Dobson & Barlow Limited, Bolton, England. Ring for ring spinning machines. 2,533,503, Dec. 12.

Pinanski, Samuel, Brookline, Mass. Paintbox. 2,533,618, Dec. 12.

Pitney-Bowes, Inc., assignee : *See*—
Hanson, Walter J.

Pitometer Log Corporation, assignee : *See*—
Cole, Edward S.

Pitt, Arnold, Weston, Ontario, Canada. Deferred action battery. 2,534,056, Dec. 12.

Pitts, Norman H., Hardwick, Ga. Portable therapeutic device. 2,533,955, Dec. 12.

Plummer, Harland C. : *See*—
Drake, George F., Whitehead, and Plummer.

Pneumatic Scale Corporation, Limited, assignee : *See*—
Blackwell, Lawrence F.
Vergobbi, John G.
Vergobbi, Robert W.

Podell, Howard I., Princeton, N. J. Turnbuckle or the like. 2,533,894, Dec. 12.

Pokras, Harry, assignor to Merit Products, Inc., Los Angeles, Calif. Sanding device. 2,533,619, Dec. 12.

Polly, Orville L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Production of succinic acid. 2,533,620, Dec. 12.

Poltorak, Emil J., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Ring packing and making the same. 2,533,742, Dec. 12.

Poor, Henry I., West Lafayette, Ind., assignor of one-quarter to J. P. Sampson, Santa Monica, Calif. Therapeutic apparatus. 2,533,504, Dec. 12.

Portable Industries, Inc., assignee : *See*—
Temple, Stanley A.

Powers, Doston S., Linthicum Heights, Md. Venetian blind tilting device. 2,533,505, Dec. 12.

Powers Photo Engraving Company, assignee : *See*—
Wattler, Francis E.

Prakke, Frits : *See*—
Kronouer, Johan G. Lips, and Prakke.

Pratt, Elbert H., and R. C. Christie, Kansas City, Mo. ; said Christie assignor to said Pratt. Electric insulator. 2,533,621, Dec. 12.

Precast Building Sections, Inc., assignee : *See*—
Atterbury, Grosvenor.

Prem, Frank E. : *See*—
Glass, Paul, and Prem.

Prentiss, John G. : *See*—
Adler, Robert, and Prentiss.

Price, David R., deceased, by W. S. Wade, administrator, Urmston, and A. Grayson, Patricroft, England, assignors to General Electric Company. Single-frequency carrier current control system. 2,534,144, Dec. 12.

Pride, George H., New York, N. Y. Load handling apparatus for vehicles. 2,534,057, Dec. 12.

Proctor & Schwartz, Inc., assignee : *See*—
Hurxthal, Frederick E.

Prosperity Company, Inc., The, assignee : *See*—
Gayring, Wallace F., and Neuroth.

Prutzman, Charles D., assignee : *See*—
Edwards, William C.

Punch Engineering PTY Limited, assignee : *See*—
Skillman, Thomas S.

PurOlator Products, Inc., assignee : *See*—
Kovacs, Julius P., and Hultgren.

Putt, Donald R., Jersey City, N. J. Magnetic storage comparing and control system. 2,533,326, Dec. 12.

Pyle-National Company, The, assignee : *See*—
Raider, George K.

Pyle, Ross S., assignor to Collins Radio Company, Cedar Rapids, Iowa. Selective shaft positioning control. 2,533,398, Dec. 12.

Quam, James P., assignor to Quam-Nichols Company, Chicago, Ill. Magnetic focusing device. 2,533,687, Dec. 12.

Quam, James P., assignor to Quam-Nichols Company, Chicago, Ill. Focusing device. 2,533,688, Dec. 12.

Quam, James P., assignor to Quam-Nichols Company, Chicago, Ill. Magnetic focusing device. 2,533,689, Dec. 12.

Quam-Nichols Company, assignee : *See*—
Quam, James P.

Rabb, Irving L., assignee : *See*—
Snyder, Francis H.

Rachlin, Max, Flushing, N. Y. Bracket and channel circle gutter support. 2,534,145, Dec. 12.

Radio Corporation of America, assignee : *See*—
Blitz, Daniel.
Hulst, George D., Jr.
Keizer, Eugene O.
Robinson, David H., and Dunn.
Rosenthal, Fritz.

Radio-Television Institute, Inc., assignee : *See*—
Lindley, Frederick A.

Rahn, Orval W. : *See*—
Arenberg, Albert L., Nordquist, and Rahn.

Raicy, Frank W., Portland, Oreg. Propulsion means for rowboats. 2,534,180, Dec. 12.

Raider, George K., assignor to The Pyle-National Company, Chicago, Ill. Germicidal light arrangement for ventilated space. 2,533,690, Dec. 12.

Randolph, Harry B., London, England. Dry-shaving appliance. 2,533,622, Dec. 12.

Ranft, Edward J., Woodside, N. Y. Paintbrush with scraped blade. 2,533,838, Dec. 12.

Ranson, Frances C., Nashville, Tenn. Dispenser for papers and the like. 2,533,623, Dec. 12.

Raveau, Marcel, Lindenhurst, N. Y. Wheeled attachment for boats. 2,533,895, Dec. 12.

Rawlings, John L., Elmont, assignor to Kollmorgen Optical Corporation, Brooklyn, N. Y. Ball release mechanism for measuring instruments. 2,533,896, Dec. 12.

Ray, William A., assignor to General Controls Co., Glendale, Calif. Liquid level and temperature control system. 2,533,624, Dec. 12.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co., Safety control system for fuel burners. 2,533,625, Dec. 12.

Reconstruction Finance Corporation, assignee: *See*—
Kittredge, Arthur E.
Mendle, Alvin M.
Stevens, Charles R.

Reddock, Morris D., Brooklyn, N. Y. Ground clamp. 2,533,897, Dec. 12.

Reed, Carl S., New York, and O. C. Schauble, Mount Kisco, assignors to The Lummus Company, New York, N. Y. Multiple block baffle construction for multiple tube fluid heaters. 2,534,208, Dec. 12.

Reed, Carl S., assignor to The Lummus Company, New York, N. Y. Hydrocarbon feed distributor for catalytic apparatus. 2,534,209, Dec. 12.

Reed, Raymond E., assignee: *See*—
Reed, Morris J., and Reed.

Reiter, Harold J., Chicago, Ill. Hinge structure. 2,533,626, Dec. 12.

Remonte, John, Cornicana, assignor of one-half to C. F. Dominy, Fort Worth, Tex. Lawn mower cutting reel. 2,533,691, Dec. 12.

Renfrew, Malcolm M., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of tetrafluoroethylene with dibasic acid peroxide catalysts. 2,534,058, Dec. 12.

Rensell Corporation, assignee: *See*—
Liesner, Charles E.

Research Corporation, assignee: *See*—
Andrews, Donald H.
Brunster, John F., and Larsen.

Ricciardi, Attilio, New York, N. Y. Confection mold. 2,534,059, Dec. 12.

Rice, Clayton E., Chicago, Ill. Air and water heating furnace. 2,533,692, Dec. 12.

Richard, Charles D., West New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Universal coil-winding machine. 2,533,506, Dec. 12.

Richards, Frank A., East Elmhurst, and C. R. Arliss, Astoria, assignors to Ideal Novelty & Toy Co., Hollis, N. Y. Toy telephone. 2,533,327, Dec. 12.

Ridgway, John A., Jr., Texas City, Tex., and P. Hill, Hammond, Ind., assignors to Pan American Refining Corporation, Texas City, Tex. Catalytic hydrocarbon conversion. 2,533,284, Dec. 12.

Riley, Stoker, Corporation, assignee *See*—
Miller, Earle C.

Risberg, David, and M. Heiman, Brooklyn, N. Y. Cosmetic kit. 2,533,507, Dec. 12.

Riu, Walter I., Philadelphia, Pa. Furnace for hot-air and water space heating with domestic water heater. 2,533,508, Dec. 12.

Roach, Vernon A., Oakland, Calif., assignor of one-half to G. B. Osborne. Engine speed control. 2,533,627, Dec. 12.

Roberts, Frederick W., Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y. High-speed intelligence recording and reproducing system. 2,534,060, Dec. 12.

Roberts, Michael S.: *See*—
Nile, Robert H., and Roberts.

Roberts, Noble J., Cheyenne, Wyo. Fluid sampling apparatus. 2,534,181, Dec. 12.

Robertshaw-Fulton Controls Company, assignee: *See*—
Weber, Victor, and Garner.

Robertson, Thayne, Boise, Idaho. Stoker smoking pipe. 2,533,956, Dec. 12.

Robinson, Allen D., Kenosha, Wis. Toothpaste ejector. 2,533,639, Dec. 12.

Robinson, David H., Llanerich, Pa., and T. E. Dunn, Pennsauken, N. J., assignors to Radio Corporation of America. Radio distance measuring system. 2,533,898, Dec. 12.

Robinson, Sam P.: *See*—
Weber, Louis J., and Robinson.

Rodert, Lewis A., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Heating and ventilating system. 2,533,509, Dec. 12.

Rodgers, Janet W., assignee: *See*—
Rodgers, Thomas T.

Rodgers, Thomas T., deceased, Milwaukee, Wis.; T. T. Rodgers, Jr., executor of said T. T. Rogers, assignor to J. W. Rodgers, Milwaukee, Wis. Lubricant coolant solution. 2,533,328, Dec. 12.

Rodgers, Thomas T., Jr., executor: *See*—
Rodgers, Thomas T.

Rodman, Clarence J., Alliance, Ohio. Bathtub and producing the same. 2,534,146, Dec. 12.

Rodman, Clarence J., Alliance, Ohio. Bathtub. 2,534,147, Dec. 12.

Roehner, Theodore G., Mount Vernon, and C. D. Thayer, Baldwin, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Inhibiting fretting corrosion. 2,533,840, Dec. 12.

Roelfs, William H., Diller, Nebr. Posthole digger. 2,533,957, Dec. 12.

Rogers, Arthur P., Harris, N. Y. Telescopic sight lens cover. 2,534,061, Dec. 12.

Rohm & Haas Company, assignee: *See*—
McKeever, Charles H., and Agnew.

Roman, Alfred L., New York, N. Y. Aircraft with retractable rotary wings. 2,534,062, Dec. 12.

Root, Morris J., and R. E. Reed, St. Paul, Minn., assignors, by mesne assignments, to R. E. Reed, Arlington Heights, Ill., doing business as The Leed Company. Chemical heating pad, particularly useful in permanent waving of human hair. 2,533,958, Dec. 12.

Roscoe, Merrill W., assignor to Deere & Company, Moline, Ill. Cotton stripper. 2,533,510, Dec. 12.

Rose, Eustace L., assignor to Gravely Motor Plow and Cultivator Company, Dunbar, W. Va. Rotary plow. 2,533,693, Dec. 12.

Roseman, Leo, Newark, N. J. Adjustable fastener. 2,534,064, Dec. 12.

Rosenberg, Myer, Chicago, Ill. Movable magnifying lens indicator. 2,533,628, Dec. 12.

Rosenthal, Fritz, Bellmawr, N. J., assignor to Radio Corporation of America. Polystyrene plastic foam. 2,533,629, Dec. 12.

Ross, Earl T., Los Angeles, and C. B. Wilde, Compton, Calif., assignors to Stauffer Chemical Company. Manufacture of insoluble sulfur. 2,534,063, Dec. 12.

Rothenberg, Henry, assignee: *See*—
Gruszecki, Frank.

Rothschild, Hans J., assignor to Georg Fischer Aktiengesellschaft. Schaffhausen, Switzerland. Shockless jolting device for molding machines. 2,533,959, Dec. 12.

Rothschild, Hans J., assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Control device for lifting pins on molding machines. 2,533,960, Dec. 12.

Rousseau, Wilfrid J., and M. Oliver, New Bedford, Mass. Intravenous needle immobilizer. 2,533,961, Dec. 12.

Rowe, Oliver R. and W. J. Stolp, Charlotte, N. C., assignors to R. H. Bouligny, Inc. Pruning implement. 2,533,962, Dec. 12.

Rowland, Frederick T., Emsworth, and M. B. Hammond, Edgeworth, assignors to Standard Steel Spring Company, Coraopolis, Pa. Single-leaf vehicle spring. 2,533,511, Dec. 12.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fusible link. 2,534,065, Dec. 12.

Rowley, Arthur C., Drexel Hill, assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Sprinkler head and mounting therefor. 2,534,066, Dec. 12.

Rubin, Herbert, New York, N. Y. Adjustable basketball hoop mounting. 2,534,067, Dec. 12.

Rummery, Frank O.: *See*—
Allan, Benjamin W., and Rummery.

Russell, Columbus B., Seattle, Wash. Plastic refill wax paper dispenser. 2,533,841, Dec. 12.

Russell, Edward A., and F. B. Rutherford, Chicago, Ill., assignors, by mesne assignments, to Vapor Heating Corporation. Combined radiant and air heating system. 2,534,148, Dec. 12.

Rust, John D., Memphis, Tenn. Safety means for cotton harvesters. 2,533,630, Dec. 12.

Rust, John D., Memphis, Tenn. End clip for cotton picker spindle slats. 2,533,631, Dec. 12.

Rutherford, Frost B.: *See*—
Russell, Edward A., and Rutherford.

Ryner, Arthur, London, England, assignor to American Aggregate Company, Kansas City, Mo. Producing vesicular molded products from burnt clays, shales, or similar argillaceous material. 2,533,899, Dec. 12.

S. A. Machine per l'Industria Dolciaria Carle & Montanari, assignee: *See*—
Cavalieri, Emilio.

Sacchini, Columbus R., Willoughby, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Drive arm mechanism. 2,533,963, Dec. 12.

Sachanen, Alexander N.: *See*—
Caesar, Philip D., and Sachanen.

Sadler, Harry J., and E. E. Cook, assignors to Hypro Engineering Co., Minneapolis, Minn. Fluid pressure seal for rotary pumps and the like. 2,533,399, Dec. 12.

Safford, Robert V., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Conditioning iron catalyst. 2,533,694, Dec. 12.

Sager, Irving, Deal, N. J. Line pulse modulator. 2,533,285, Dec. 12.

Salvesen, Jörgen R., Wausau, and W. C. Browning, Schofield, assignors to Marathon Corporation, Rothschild, Wis. Reinforcing polymeric butadiene synthetic rubber with lignosulfonate. 2,533,632, Dec. 12.

Sampson, J. Philip, assignee: *See*—
Poor, Henry I.

Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency ionic discharge switch device. 2,533,512, Dec. 12.

Sandor, Bela, London, England. Pyrophoric lighter. 2,534,068, Dec. 12.

Sandoz Limited, assignee: *See*—
Stoll, Arthur, Hofmann, and Troxler.

Satona Limited, assignee: *See*—
Vivian, George S.

Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,533,400, Dec. 12.

Sauer, Robert O., Schenectady, N. Y., assignor to General Electric Company. Preparation of organo-substituted polysiloxanes. 2,534,149, Dec. 12.

Savoie, Mark E., Cleveland, Ohio. Variable lead grip sleeve for mechanical pencils. 2,533,513, Dec. 12.

Sawdey, George W., and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsions containing color couplers and amide coupler solvents. 2,533,514, Dec. 12.

Scarborough, Charles R., Knoxville, Tenn. Convertible chair, ironing board, and stepladder. 2,533,515, Dec. 12.

Schaeffer, George W., St. Louis, Mo., and G. D. Barbaras, Cleveland, Ohio, assignors to the United States of America as represented by the United States Atomic Energy Commission. Diborane purification process. 2,533,696, Dec. 12.

Schauble, Otto C.: *See*—
Reed, Carl S., and Schauble.

Scherer, John O., assignor to R. P. Scherer Corporation, Detroit, Mich. Gelatin melter. 2,533,964, Dec. 12.

Scherer, R. P., Corporation, assignee: *See*—
Scherer, John O.

Schimmel, Paul: *See*—
Gedat, Curt R., Schimmel, and Atkins.

Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Arc extinguishing means for alternating current electric switches. 2,534,069, Dec. 12.

Schmidt, Edgar H., Wilmington, and K. F. Cossaboon, Claymont, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Machine for assembling sheet form material. 2,534,070, Dec. 12.

Schmitt, Otto H., Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Heat sensitive circuits. 2,533,286, Dec. 12.

Schmitt, Otto H., Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Thermistor system. 2,533,287, Dec. 12.

Schmitt, Otto H., Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Temperature stabilization. 2,533,288, Dec. 12.

Schmitt, Otto H., Mineola, N. Y., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Thermistor high-frequency ammeter. 2,533,289, Dec. 12.

Schmitz, William R., Jr., Newark, N. J. Preventing clogging of drain troughs. 2,533,402, Dec. 12.

Schmohl, Leland H., Cleveland Heights, and J. L. Habe, assignors to The Parker Appliance Company, Cleveland, Ohio. Fluid pump. 2,533,965, Dec. 12.

Schofield, Arthur: *See*—
Lantz, Louis A., Schofield and Spinner.

Schott, Charles W., Duquesne, Pa. Granulated slag and producing it. 2,533,633, Dec. 12.

Schramm, Raymond R., Bloomfield, assignor to National Union Radio Corporation, Orange, N. J. Coincidence detector of the focused rotary electron beam kind. 2,533,401, Dec. 12.

Schreiber, Dag S., Lidingo, assignor to AB W. Dan Bergman, Sodertalje, Sweden. Electromagnetic vibrator. 2,533,695, Dec. 12.

Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Caster with grounding link. 2,533,403, Dec. 12.

Schuls, Eugene, Sr., and T. A. Miskowski, Merrill, Wis.; said Miskowski assignor to said Schuls, Sr. Adjustable fur pelt drier and stretcher. 2,534,071, Dec. 12.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of alkyl benzenes. 2,534,072, Dec. 12.

Schutte, August H., Hastings on Hudson, N. Y., and W. F. O'Connor, Bayonne, N. J., said O'Connor assignor to The Lummus Company, New York, N. Y. Centrifugal separation. 2,534,210, Dec. 12.

Schwalm, Walter A., Oak Park, Ill., assignor to Zenith Radio Corporation. Hearing aid microphone. 2,533,516, Dec. 12.

Schwartz, Martin W., and M. J. Marks, Chicago, Ill. Electric fixture for tubular fluorescent lamps. 2,534,182, Dec. 12.

Schweickart, William M., Mentor, and F. G. Julyan, Euclid, Ohio, assignors, by mesne assignments, to Iron Fireman Manufacturing Company, Portland, Oreg. Stoker system, including fuel and air feed controls. 2,533,330, Dec. 12.

Schweickart, William M., Bay Village, and F. G. Julyan, Euclid, Ohio, assignors, by mesne assignments, to Iron Fireman Manufacturing Company, Portland, Oreg. Ash disposal screw. 2,533,329, Dec. 12.

Schweitzer, Carl E.: *See*—
Gresham, William F., and Schweitzer.

Schweizerische Lokomotiv-und Maschinenfabrik, assignee, *See*—
Widmer, Leo.

Schwitalla, August: *See*—
Lahr, David L., and Schwitalla.

Schwoegler, Edward J., Hammond, Ind., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Manufacture of alkyl aryl hydrocarbons. 2,533,517, Dec. 12.

Scott, Floyd L.: *See*—
Woods, Henry B., and Scott.

Scott, William H., Gettysburg, Pa. Warning apparatus for motor vehicle operators. 2,533,518, Dec. 12.

Scully-Jones & Company, assignee: *See*—
Better, Bernard and Lehde, Jr.

Seaton, Charles L.: *See*—
Leinlinger, James E., and Seaton.

Seeland, Howard F.: *See*—
Flero, George W., Seeland, and Batt.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O., Maud, and Stoertz.

Sellers, George P., Phoenix, Ariz. Pants hanger. 2,533,634, Dec. 12.

Sellstrom Manufacturing Company, assignee: *See*—
Anderson, Marshall N.

Sevón, Johan W., deceased, and F. V. Sundman; K.-G. B. Fogelholm, administrator of the estate of said J. W. Sevón, assignors to Kymin Osakeyhtio-Kymmene Aktiebolag, Kuusankoski, Finland. Preparing chlorine dioxide gas. 2,533,842, Dec. 12.

Seymour, Raymond B., Chattanooga, Tenn., assignor to Monsanto Chemical Company, St. Louis, Mo. Printing textile fabrics with a dye paste comprising a styrene-maleic anhydride copolymer cross-linked with divinyl benzene. 2,533,635, Dec. 12.

Shaff, Ernest H., Spring Lake, Mich. Blow gun for cleaning machines or the like. 2,534,183, Dec. 12.

Shaffer, Donald U.: *See*—
Miller, Ivan O., Sutliff, Shaffer, and Waggener.

Shaffer Tool Works, assignee: *See*—
Miller, Ivan O., Sutliff, Shaffer, and Waggener.

Shalla, Edmund F.: *See*—
Deichmiller, Alwin, and Shalla.

Shand and Jurs Company, assignee: *See*—
Jurs, Peter C.

Shanklin, John P., assignor to Collins Radio Company, Cedar Rapids, Iowa. Antenna. 2,533,900, Dec. 12.

Shapiro, Abraham: *See*—
Clark, Albert F., and Shapiro.

Shappell, Fred J.: *See*—
Lee, Fred A., Shappell.

Sharenow, Alexander, New York, N. Y. Carbon resistor rheostat. 2,533,519, Dec. 12.

Sharp, Charles L., Palmyra, N. J. Railroad spike. 2,533,901, Dec. 12.

Sharp, Oscar, assignee and trustee: *See*—
Sharp, Oscar, and Bellamy.

Sharp, Oscar, and W. Bellamy, assignors to O. Sharp, Chicago, Ill., trustee. Artificial limb and valve therefor. 2,533,404, Dec. 12.

Sharp, William, Birmingham, England. Snap action electric switch. 2,533,743, Dec. 12.

Shaw, Hubert A., Hyannis, Mass. Candle. 2,533,290, Dec. 12.

Shell Development Company, assignee: *See*—
Ballard, Seaver A., and Geyer.
de Nie, Willem L. J., and Meyer.

Sheras, Bernard E., assignee: *See*—
Godfrey, Paul S.

Sherman, Raymond G.: *See*—
Conklin, Alfred A. and Sherman.

Sherwin-Williams Company, The, assignee: *See*—
Cryer, John, Owens and Lee.

Sherwood, John R., Cedar Rapids, and K. L. Klippel, Iowa City, assignors to Collins Radio Company, Cedar Rapids, Iowa. Modulation protective arrangement. 2,534,073, Dec. 12.

Shimp, William B., Columbus, Ohio. Life saving net. 2,533,520, Dec. 12.

Shmidl, Albert J., Greens Bayou Park, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Reaction of alkyl cycloparaffins with unsaturated fatty acid. 2,534,074, Dec. 12.

Shoemaker, Richard G., Sharon Hill, Pa. Drinking spout for water outlets. 2,533,636, Dec. 12.

Sido, George R.: *See*—
Buckley, Francis T., and Sido.

Siebert, William McC.: *See*—
Hushley, Walter J., and Siebert.

Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Ruffler attachment for sewing machines. 2,533,291, Dec. 12.

Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Multiple needle stitching mechanism. 2,533,292, Dec. 12.

Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Filler feeding mechanism for sewing machines. 2,533,293, Dec. 12.

Silver, Walter H., and R. E. Cox, assignors to Deere & Company, Moline, Ill. Quick detachable hitch. 2,533,521, Dec. 12.

Simbrat, Walter: *See*—
Levy, Gustave, and Simbrat.

Sime, Sylvan H., Kiester, Minn. Wheel cylinder for hydraulic brakes. 2,533,902, Dec. 12.

Simmons, Gordon, Jr., Portageville, Mo. Method and apparatus for separating isotopes. 2,533,966, Dec. 13.

Sinclair Refining Company, assignee: *See*—
Watkins, Franklin M.

Singer Manufacturing Company, The, assignee: *See*—
Langille, Wilfred O.

Singher, Heron O., Red Hook, N. Y., and C. R. Harmison, Somerville, N. J., assignors to Ortho Pharmaceutical Corporation. Extraction of type A specific substance. 2,533,294, Dec. 12.

Sintering Machinery Corporation, assignee: *See*—
Biehler, Louis A.

Sipe, Charles O., Woody, Calif. Vegetable slicer. 2,533,843, Dec. 12.

Sisson, James G., assignor to The L. S. Starrett Company, Athol, Mass. Shock absorbing anvil attachment for dial indicators. 2,533,522, Dec. 12.

Sivey, Della I.: *See*—
Sivey, William F. and D. I.

Sivey, William F. and D. I., Tecumseh, Nebr. Making artificial flies. 2,533,523, Dec. 12.

Skellett, Albert M., Madison, assignor to National Union Radio Corporation, Newark, N. J. Demodulation apparatus for pulse multiplex pulse time modulated signals. 2,533,405, Dec. 12.

Skellett, Albert M., Madison, assignor to National Union Radio Corporation, Orange, N. J. Modulatable frequency oscillation tube arrangement. 2,533,406, Dec. 12.

Skillman, Thomas S., Mosman, near Sydney, assignor to Punch Engineering PTY Limited, Cammeray, near Sydney, New South Wales, Australia. Heating and cooling system. 2,533,407, Dec. 12.

Skinner, Davis A., Compton, and T. F. Doumani, assignors to Union Oil Company of California, Los Angeles, Calif. Antifouling paints. 2,533,744, Dec. 12.

Skinner, George M., Kenmore, N. Y., assignor to The Linde Air Products Company. Powder dispensing. 2,533,331, Dec. 12.

Skeen, Charles H.: *See*—
Geisler, Ralph H., and Skeen.

Skinner Motors, Inc., (Delaware), assignee: *See*—
Kasten, Walter.

Sleight, Roland E., Philadelphia, Pa. Printing press brake. 2,534,075, Dec. 12.

Slick, Polly N., assignor to Institute of Inventive Research, San Antonio, Tex. Baby bottle nipple punch. 2,534,076, Dec. 12.

Smalley, Dean F., East Lynn, Mass., assignor to General Electric Company. Dynamoelectric machine. 2,534,150, Dec. 12.

Smith, Frank R.: *See*—
Sullivan, John G., and Smith.

Snell, Francis A., Tinmouth, Vt. Animal trap. 2,533,844, Dec. 12.

Snider, Arthur M., Waterloo, Ontario, Canada. Waste disposal unit. 2,533,524, Dec. 12.

Snyder, Francis H., New Rochelle, assignor to I. L. Rabb, New York, N. Y. Polymerization of styrene employing phthalimide as catalyst. 2,533,525, Dec. 12.

Snyder, James L.: *See*—
Holmes, Charles, and Snyder.

Snyder, Yvonne B., Forest Hills, N. Y. Beauty pillow. 2,533,526, Dec. 12.

Sobie, Leo, Jonesville, Mich. Automatic throttle control. 2,533,967, Dec. 12.

Sobie, Leo, Jonesville, Mich. Automatic throttle control. 2,533,968, Dec. 12.

Socall, Florent E., Detroit, Mich. Permanent underground installation lawn sprinkler. 2,533,969, Dec. 12.

Societe Anonyme des Usines Chausson, assignee: *See*—
Chausson, Gaston.

Societe D'Electro-Chimie, D'Electro-Metallurgie et des Acieries Electriques D'Ugine, assignee: *See*—
Marquaire, Charles.

Societe Francaise Radio-Electrique, assignee: *See*—
Chauveau, Louis.
Couillard, Louis.

Societe Francaise Sadir-Carpentier, assignee: *See*—
Marie, Georges R. P.

Société Volcan S. A, assignee: *See*—
Geffroy, Robert R. L.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Caesar, Philip D., and Sachanen.
Clark, Albert F., and Shapiro.
Hartough, Howard D., and Meisel.
Roehner, Theodore G., and Thayer.

Sole, Ethel T.: *See*—
Sole, George A. and E. T.

Sole, George A. and E. T., Traverse City, Mich. Collapsible baby bed. 2,533,970, Dec. 12.

Solomon, Joseph A.: *See*—
Aronstein, Joseph, Mitchell, and Solomon.

Soltis, John A., Reading, Pa. Baby's automobile seat. 2,535,527, Dec. 12.

Somers, Richard M.: *See*—
Dann, Charles W., and Somers.

Somersall, William W., Natick, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Making steel toe boxes. 2,533,528, Dec. 12.

Sorg, Harold E.: *See*—
Chamberlain, Richard H., and Sorg.

Spanel, Abraham N., Princeton, N. J., F. W. Andrews, and H. A. Owen, assignors to International Latex Corporation, Dover, Del. Crib or the like sheet. 2,533,971, Dec. 12.

Speedo Manufacturing Co., Inc., assignee: *See*—
Bamberger, Alfred A.

Spence, George H., assignor to Harman Distributors, Inc., New Haven, Conn. Attachment for lawn mowers. 2,533,745, Dec. 12.

Spence, Hubert L., and W. J. Metzger, East Cleveland, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Draft rigging. 2,533,903, Dec. 12.

Spence, John: *See*—
Carroll, Burt H., and Spence.

Spencer, Benjamin F.: *See*—
Ferrill, Thomas M., Jr., and Spencer.

Spencer Turbine Company, The, assignee: *See*—
Paine, Wilbur V.

Sperry Corporation, The, assignee: *See*—
Braddon, Frederick D.
Ferrill, Thomas M., Jr., and Spencer.
Jenks, Frederic A.
Lancor, Joseph H., Jr.
Newell, William H.

Sperry Products, Inc., assignee: *See*—
De Lano, Ralph B., Jr., and Williams.

Spindler, Joseph C., Chicago, Ill., assignor to Zenith Radio Corporation. Wide band antenna. 2,533,529, Dec. 12.

Spinner, Ernest: *See*—
Lantz, Louis A., Schofield, and Spinner.

Spiral Bagging Machine Corporation, assignee: *See*—
Gerstein, Harry, and Kagan.

Spugnardi, Nicholas: *See*—
Mulhern, Laurence H., and Spugnardi.

Staehle, Henry C., assignor to Eastman Kodak Company, Rochester, N. Y. Photosensitive coating containing rubber latex. 2,533,530, Dec. 12.

Staff, Aaron S., New York, N. Y., assignor to Texagon Mills Inc., Ridgefield, N. J. Knitting machine. 2,534,184, Dec. 12.

Standard Oil Company, assignee: *See*—
Gunness, Robert C.

Standard Oil Company, assignee: *See*—
Marschner, Robert F.

Standard Oil Development Company, assignee: *See*—
Beerbower, Alan, and Zimmer.
Flero, George W., Seeland, and Batt.

Standard Oil Development Company, The, assignee: *See*—
Garrett, Bowman S.
Nelson, Karl J.
O'Halloran, Rosemary.
Shmidl, Albert J.
Vanderbilt, Byron M., and Thorn.
Wallace, Joseph S.
Wilde, Henry D.
Young, David W.

Standard Steel Spring Company, assignee: *See*—
Rowland, Frederick T., and Hammond.

Stanolind Oil and Gas Company, assignee: *See*—
Safford, Robert V.

Starbuck, John W., New York, N. Y. Gauge for shirt collars. 2,533,295, Dec. 12.

Starkey, William C., assignor to Fletcher Trust Company, trustee, Indianapolis, Ind. Torque limiting device. 2,533,973, Dec. 12.

Starline Inc., assignee: *See*—
Ferris, Robert G.

Starrett, L. S., Company, The, assignee: *See*—
Sisson, James G.

Stauffer Chemical Company, assignee: *See*—
Arnold, Chester L.
Ross, Earl T., and Wilde.

Steiding, John B., Midland, Md., assignor to Celanese Corporation of America. Filament tester. 2,533,332, Dec. 12.

Stender, Carl, Richmond, Calif. Flowerpot hanger. 2,533,845, Dec. 12.

Stephens, William T., Painesville, Ohio. Cylinder assembly. 2,533,531, Dec. 12.

Sterling China Company, The, assignee: *See*—
Nile, Robert H., and Roberts.

Sternberg, Woldemar M.: *See*—
Hayes, Earl T., Williams, and Sternberg.

Stevens, Charles R., Toledo, assignor, by mesne assignments, to Reconstruction Finance Corporation, Cleveland, Ohio. Multiunit electron discharge tube. 2,534,077, Dec. 12.

Steward, Wilbur A., Omaha, Nebr. Multiplying apparatus. 2,533,408, Dec. 12.

Stewart, John W., assignor to Sir Joseph W. Isherwood & Co., Ltd., New York, N. Y. Suction box. 2,533,697, Dec. 12.

Stewart-Warner Corporation, assignee: *See*—
Marshall, William A., Jr.
Rodert, Lewis A.
Tear, Harry R.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Electrodeposition of nickel. 2,533,532, Dec. 12.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Forming a strongly adherent electrodeposit. 2,533,533, Dec. 12.

Stoertz, Edwin F.: *See*—
Hess, Frederic O., Maud, and Stoertz.

Stoll, Arthur, A. Hofman, and F. Troxler, assignors to Sandox Limited, Basel, Switzerland. Urethanes containing the lysergic acid ring system and making same. 2,533,698, Dec. 12.

Stoll, Arthur, A. Hofman, and F. Troxler, assignors to Sandox Limited, Basel, Switzerland. Amines containing the ring system of lysergic acid or dihydrolysergic acid and making same. 2,533,699, Dec. 12.

Stolp, William J.: *See*—
Rowe, Oliver R., and Stolp.

Stone, Bruce C., Fairmont, W. Va. Rigid awning. 2,533,846, Dec. 12.

Stop-Fire, Inc., assignee: *See*—
Nurkiewicz, Ignatius.

Stouder, William H.: *See*—
Emmert, Clayton F., and Stouder.

Stout, Earl R.: *See*—
Jacob, Frederick N., Stout, and Miller.

Strain, Daniel E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polymeric materials. 2,534,078, Dec. 12.

Strain, Daniel E., Wilmington, and H. Peterson, Newport, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Granular polymers and their preparation. 2,534,079, Dec. 12.

Strickler, Walter B.: *See*—
Lukacs, Joseph J., and Strickler.

Stuart, Joseph H, assignor to Hercules Powder Company, Wilmington, Del. Extractor provided with means for unloading it. 2,533,296, Dec. 12.

Stuber, Walter J., and J. J. Di Ienno, assignors to Carey-McFall Company, Philadelphia, Pa. Venetian blind mechanism. 2,534,080, Dec. 12.

Stuster, Philip J., Huntington Park, Calif. Attachment for sewing machines. 2,533,746, Dec. 12.

Sullivan, John G., Roseville, and F. R. Smith, assignors to Chamberlin Company of America, Detroit, Mich. Weather strip installation for windows. 2,533,847, Dec. 12.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Sundman, Frey V.: *See*—
Sevón, Johan W., and Sundman.

Sun Oil Company, assignee: *See*—
Henson, Robert L., Jr.
Hetzel, Stanford J.

Sunstein, David E., Cynwyd, and A. H. Mankin, assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Cathode-ray tube. 2,533,334, Dec. 12.

Sutherland, William, assignee: *See*—
Bodnar, Joseph.

Sutliff, Wayne N.: *See*—
Miller, Ivan O., Sutliff, Shaffer, and Waggener.

Swallow, Leslie T., assignee: *See*—
Frye, De Moine H.

Swilik, Edward C., Cleveland, Ohio. Limited movement clutch. 2,533,848, Dec. 12.

Sybenga, Richard, Chicago, Ill. Meat tenderizer. 2,533,849, Dec. 12.

Symonds, Ralph F., Marblehead, and M. Magnusson, Winchester, Mass. Towing device. 2,533,972, Dec. 12.

Syracuse Chilled Plow Co., Inc., assignee: *See*—
Cook, Curtiss L., and Young.

Syracuse, Frances P., Los Angeles, Calif. Utility handbag having double compartment with individual closures and independently accessible bottle pockets. 2,533,850, Dec. 12.

Szabo, Fred, Corona, Calif. Support clamp. 2,533,974, Dec. 12.

Tait, Thomas: *See*—
Howes, Donald A., and Tait.

Talboys, Henry H., and H. E. Erickson, assignors to Nordberg Manufacturing Co., Milwaukee, Wis. Hammer. 2,533,975, Dec. 12.

Tate, Nelson H.: *See*—
Hull, Donald R., Phillips, and Tate.

Taylor Forge & Pipe Works, assignee: *See*—
Taylor, James H.

Taylor, James H., Oak Park, assignor to Taylor Forge & Pipe Works, Cicero, Ill. Method of and machine for making pipe fittings. 2,534,185, Dec. 12.

Teague, Merwyn, C., Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y. Leather-like material. 2,533,976, Dec. 12.

Tear, Harry R., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricant operated coupler. 2,533,637, Dec. 12.

Tellefsen, Thomas E., Seattle, Wash. Toy bathtub. 2,533,534, Dec. 12.

Tellier, Andre, New York, N. Y. Educational apparatus. 2,533,535, Dec. 12.

Temple, Stanley A., Lakewood, assignor, by mesne assignments, to Portable Industries, Inc., Cleveland, Ohio. Tool. 2,533,851, Dec. 12.

Tennessee Copper Company, assignee: *See*—
Harike, George E.

Tennessee Eastman Corporation, assignee: *See*—
Hasche, Rudolph L.

Tewin Industries Inc., assignee: *See*—
Higgins, Eric B.

Texagon Mills Inc., assignee: *See*—
Staff, Aaron S.

Thayer, Chester D.: *See*—
Roehner, Theodore G., and Thayer.

Theratronics Limited, assignee: *See*—
MacPhail, Angus.

Thienemann, Rolf A., Chicago, Ill. Gem viewer. 2,533,747, Dec. 12.

Thirdborough, Walter R.: *See*—
Forman, Arthur W., and Thirdborough.

Thompson, Elton H., assignee: *See*—
Brooks, Edward H., Sr.

Thompson Products, Inc., assignee: *See*—
Graham, Matthew P.

Thomson, Robin H. K., Kilwinning, Scotland, assignor to Imperial Chemical Industries Limited. Production of insolubilized protein artificial filamentary products. 2,533,297, Dec. 12.

Thorn, John P.: *See*—
Vanderbilt, Byron M., and Thorn.

Thornton-Norris, George, London, England. Instrument for indicating the operating time of vehicles and other devices. 2,533,638, Dec. 12.

Tice, Reuben S., Monterey, Calif. Electrical heating system. 2,533,409, Dec. 12.

Tide Water Associated Oil Company, assignee: *See*—
Dobbs, William D.

Tietig, Chester, Park Hills, Ky. Process and apparatus for preparing concrete. 2,533,852, Dec. 12.

Tillman, Lambert J., Toledo, Ohio. Door mechanism for railway cars. 2,533,536, Dec. 12.

Tinder, Viola E., Auburn, Calif. Salad bowl. 2,533,853, Dec. 12.

Tinnerman Products, Inc., assignee: *See*—
Hartman, Richard A.

Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.

Tomarin, Harry A., Cincinnati, assignor to Loroco Industries Incorporated, Reading, Ohio. Support shield for hangers. 2,534,081, Dec. 12.

Towar, Scott C., Burbank, Calif. Vaporizer type oil burner. 2,533,854, Dec. 12.

Tracy, Bertrand P., Company, assignee: *See*—
Weissert, Elwood W.

Trad, Victor, Deal, N. J. Timing device. 2,533,410, Dec. 12.

Travilla, James C., Jr., University City, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,533,639, Dec. 12.

Trico Products Corporation, assignee: *See*—
Olshel, John R.

Troxler, Franz: *See*—
Stoll, Arthur, Hofmann, and Troxler.

Turley, Jerome W., assignor of one-third to E. G. Cucchetti and one-third to S. Bahoosh, East Orange, N. J. Fluid applicator. 2,534,082, Dec. 12.

Turner, Frederick W.: *See*—
Marcus, Jerome R., and Turner.

Turner, Jesse O., Denison, Tex. Machine for harvesting peanuts. 2,533,537, Dec. 12.

Uhrenholdt, Emanuel, Clearwater, Nebr. Hog feeder. 2,533,538, Dec. 12.

Ulrich, Raymond M., Roanoke, Ill. Quick disconnect hydraulic coupler. 2,533,640, Dec. 12.

Union Carbide and Carbon Corporation, assignee: *See*—
Groff, Frazier.

Union Oil Company of California, assignee: *See*—
Albaugh, Frederick W.
Polly, Orville L.
Skinner, Davis A., and Doumani.

Union Special Machine Company, assignee: *See*—
Sauer, George.

Union Starch & Refining Company, assignee: *See*—
Cleland, James E., and Longenecker.

United Aircraft Corporation, assignee: *See*—
Anderson, John E.
Coar, Richard J.
Greenwood, Ernest J.

United Board & Carton Corporation, assignee: *See*—
Cochrane, Louis W.

United-Carr Fastener Corporation, assignee: *See*—
Churchill, Wilmer H.
Heath, Clarence W.

United Merchants & Manufacturers, Inc., assignee: *See*—
Egger, Luis G.
Mantell, Charles L.

United Shoe Machinery Corporation, assignee: *See*—
Blanchard, Benjamin B.
Forman, Arthur W., and Thirdborough.
Mulhern, Laurence H., and Spugnardi.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
McMahon, Jerome B., and Abbott.
Schaeffer, George W., and Barbaras.
Watt, Robert D., and Watson.

United States Rubber Company, assignee: *See*—
Clarkson, Robert J.
Feldman, John E.
Jurgeleit, Herbert F.
Ladd, Elbert C.
Teague, Merwyn C.

U. S. Slicing Machine Company, Inc., assignee: *See*—
Gierke, Walter W., Brownsey, and Frye.
Klingens, Cornelis.

Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.

University of Minnesota, Regents of the, assignee: *See*—
Schmitt, Otto H.

Urban, Rose, New York, N. Y. Combination game. 2,533,904, Dec. 12.

Vaccaro, Ralph, Jersey City, N. J., assignor to Vaccaro Brothers & Co., Inc., New York, N. Y. Method of and machine for making pipe fittings. 2,534,186, Dec. 12.

Vaccaro Brothers & Co., Inc., assignee: *See*—
Vaccaro, Ralph.

Vacuum Oil Company, assignee: *See*—
Caesar, Philip D., and Sachanen.
Clark, Albert F., and Shapiro.
Hartough, Howard D., and Meisel.
Roehner, Theodore G., and Thayer.

Vallee, Rene, Montreal, Quebec, Canada. Method of and apparatus for producing a fibrous product. 2,533,411, Dec. 12.

Van Dam, Willem, Flushing, N. Y., assignor to Sperry Products, Inc. Ultrasonic testing. 2,533,412, Dec. 12.

Vanderbilt, Byron M., and Thorn: *See*—
Standard Oil Development Company, The, assignee.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,413, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,414, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,415, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,416, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,417, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,418, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,419, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,420, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,421, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,422, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,423, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,424, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,425, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,426, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,427, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,428, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,429, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,430, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,431, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,432, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,433, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,434, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,435, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,436, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,437, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,438, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,439, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,440, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,441, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,442, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,443, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,444, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,445, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,446, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,447, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,448, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,449, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,450, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,451, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,452, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,453, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,454, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,455, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,456, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,457, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,458, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,459, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,460, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,461, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,462, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,463, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,464, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,465, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,466, Dec. 12.

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Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,473, Dec. 12.

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Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,480, Dec. 12.

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Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,483, Dec. 12.

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Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,521, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,539, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,540, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,541, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,542, Dec. 12.

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Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for producing a fibrous product. 2,533,553, Dec. 12.

Van Dyke, Ralph A., Pasadena, Calif. Method of and apparatus for produc

Urban, William J., Glen Ellyn, assignor to American Ore Reclamation Company, Chicago, Ill. Sprocket wheel tooth and pallet contact means. 2,534,186, Dec. 12.

Urban, William J., Glen Ellyn, assignor to American Ore Reclamation Company, Chicago, Ill. Sprocket wheel and tooth therefor. 2,534,187, Dec. 12.

Ushanoff, Vaselei V., Hollywood, Calif. Anterior dental tray. 2,533,855, Dec. 12.

Valentine, Kenneth A., Mesilla Park, N. Mex. Key holder. 2,534,151, Dec. 12.

Van Arkel, Ralph W., assignor of fifty per cent to R. B. Kempenaar, Oskaloosa, Iowa. Fishhook. 2,534,152, Dec. 12.

Van Brunt, John Deere Company, assignee: *See*— Hyland, William A.

Van Buren, Harry, Dallas, Tex. Copyholder. 2,533,856, Dec. 12.

Van den Broek, Jan A., assignor, by mesne assignments, to Bradfield and Bidwell, Inc., Ann Arbor, Mich. Projector. 2,534,083, Dec. 12.

Van den Broek, Jan A., assignor, by mesne assignments, to Bradfield and Bidwell, Inc., Ann Arbor, Mich. Projection apparatus. 2,534,084, Dec. 12.

Vanderbilt, Byron M., Westfield, and J. P. Thorn, Cranford, N. J., assignors to Standard Oil Development Company. Preparation of alkali alkyl xanthates. 2,534,085, Dec. 12.

Van Dornick, Edward M., Buena Vista, Calif., assignor to Arabian American Oil Company, New York, N. Y. Separator. 2,533,977, Dec. 12.

Vapor Heating Corporation, assignee: *See*— Clarkson, Allek. Lehane, Timothy J., and Burgess. Russell, Edward A., and Rutherford.

Vergobbi, John G., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Lined container forming machine. 2,533,642, Dec. 12.

Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Method of and apparatus for filling containers. 2,533,641, Dec. 12.

Verner, James, Pocahontas, Iowa. Artificial teat. 2,533,643, Dec. 12.

Versosa, Guillermo M., Brooklyn, N. Y. Hinged picture frame. 2,533,978, Dec. 12.

Viall, George K., Milwaukee, and R. F. Lindow, Wauwatosa, assignors to Chain Belt Company, Milwaukee, Wis. Material distributing receptacle. 2,534,211, Dec. 12.

Vibradamp Incorporated, assignee: *See*— Davis, Harold W., and Johns.

Vittum, Paul W.: *See*— Sawdey, George W., and Vittum.

Vivian, George S., Surbiton, assignor to Satona Limited, Leeds, England. Resealable carton closure having metallic clip fastening means. 2,533,539, Dec. 12.

Vivie, Wilhelmus L. L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cutting plate of dry-shaving apparatus. 2,533,979, Dec. 12.

Vokes, Gordon H., assignor to Vokes Limited, Guildford, England. Filter cleaning apparatus. 2,533,644, Dec. 12.

Vokes Limited, assignee: *See*— Vokes, Gordon H.

Volgovskoy, Boris, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Enclosed switchgear with adjustable panel. 2,533,645, Dec. 12.

Vosbikian, Peter S. and T. S., Melrose, Pa. Window cleaner. 2,534,086, Dec. 12.

Vosbikian, Thomas S.: *See*— Vosbikian, Peter S. and T. S.

Wade, Charles B.: *See*— Gray, Griffin W., and Wade.

Wade, William S., administrator: *See*— Price, David R., and Grayson.

Waggener, Kenneth E.: *See*— Miller, Ivan O., Sutliff, Shaffer, and Waggener.

Wakefield, Frank B., Auburn, Maine. Picker stick check strap. 2,533,646, Dec. 12.

Walker, Charles D., San Francisco, assignor, by mesne assignments, to Calnetian Blinds, Incorporated, Oakland, Calif. Venetian blind. 2,533,298, Dec. 12.

Wallace, Archibald L., Mountain Lakes, N. J. Vulcanizing mold having interlocking segments. 2,533,335, Dec. 12.

Wallace, Joseph S., Browns, Ala., assignor to Standard Oil Company, Chicago, Ill. Nonfoaming lubricant composition. 2,533,700, Dec. 12.

Waller, Richard J., Bridgeport, Conn. Heating device and combustion process. 2,533,647, Dec. 12.

Wallin, Sven W.: *See*— Bloomquist, Uno O., and Wallin.

Wallis, Peter J.: *See*— Gent, Alfred W., and Wallis.

Walsh, Edward C., Washington, D. C. Direction finding. 2,533,299, Dec. 12.

Walsh, John J., assignor to Hamilton, Scheu & Walsh Shoe Co., St. Louis, Mo. Making slip-lasted shoes. 2,533,336, Dec. 12.

Walsh, John J., St. Louis, Mo. Shoe and making the same. 2,533,337, Dec. 12.

Walter, Henry A., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. 2,5-diamino-1-thiadiazine-3,4 resins. 2,534,087, Dec. 12.

Walz, Claude W., and R. D. Griff, Rock Island, assignors to Deere & Company, Moline, Ill. Detachable tractor mounted implement. 2,533,542, Dec. 12.

Wannamaker, William H., Jr., Flourtown, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric proportioning control apparatus with reset. 2,533,411, Dec. 12.

War, United States of America as represented by the Secretary of, assignee: *See*— Barnard, Harvie, and Wharton.

Warburg, Joseph H. and R. M., New York, N. Y. Circular saw making. 2,533,648, Dec. 12.

Warburg, Ralph M.: *See*— Warburg, Joseph H. and R. M.

Ward, Raymond: *See*— Morill, Weston, Dunn, and Ward.

Ware, Lamar M.: *See*— Harris, Hubert, and Ware.

Warmack, Ralph H., Dalton, Ga. Needle punch machine. 2,533,540, Dec. 12.

Warner, De Ver K., Los Angeles, Calif. assignor to North American Aviation, Inc. Apparatus for measuring ordinates on a strip chart. 2,533,649, Dec. 12.

Warrick, Marion R., Greenville, Ohio. Bull bridle. 2,533,857, Dec. 12.

Warring, Alfred, Detroit, Mich. Wheeled golf club carrier. 2,533,541, Dec. 12.

Watkins, Franklin M., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Morpholine mahogany sulfonates as a rust inhibitor for petroleum oils. 2,533,300, Dec. 12.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,533,301, Dec. 12.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,533,302, Dec. 12.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,533,303, Dec. 12.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,533,304, Dec. 12.

Watson, Warren N.: *See*— Watt, Robert D., and Watson.

Watt, Robert D., and W. N. Watson, El Cerrito, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Collimating shield. 2,533,701, Dec. 12.

Wattier, Francis E., St. Lambert, Quebec, Canada, assignor to Powers Photo Engraving Company, Glen Cove, N. Y. Making half-tone negatives. 2,533,650, Dec. 12.

Way, Everett L., Canterbury, near Brunswick, Canada. Evener for a span of horses. 2,533,651, Dec. 12.

Weaver, Chalmers L., St. Louis, Mo. Pilot operated control system for aircraft. 2,533,702, Dec. 12.

Weaver Engineering Co., assignee: *See*— Weaver, Ira A.

Weaver, Ira A., Springfield, Ill., assignor to Weaver Engineering Co. Lifting and lowering appliance. 2,533,980, Dec. 12.

Weaver, Ira A., assignor to Weaver Engineering Co., Springfield, Ill. Ramp carriage and locating means for vehicle lifting devices. 2,533,981, Dec. 12.

Webb, Irving D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dinitrile compound. 2,534,088, Dec. 12.

Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater apparatus. 2,534,089, Dec. 12.

Weber, Louis J., and S. P. Robinson, Bartlesville, Okla., assignors to Phillips Petroleum Company. Pebble heating chamber. 2,534,090, Dec. 12.

Weber, Phillip J., Jr., Montebello, Calif. Acid storage tank and the like. 2,534,188, Dec. 12.

Weber, Victor, Greensburg, and R. F. Garner, assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa. Thermostatic control device for gas-burning appliances. 2,533,982, Dec. 12.

Weiffenbach, Everell C., assignor to Cass Products Company, Buffalo, N. Y. Valve. 2,533,652, Dec. 12.

Weigle, Francis H., Chicago, and B. Yuffy, Oak Park, Ill. Combination separable crib frame and chest of drawers structure. 2,533,983, Dec. 12.

Weigel, Frederick W., Fairview Village, assignor, by mesne assignments, to the V. D. Anderson Company, Cleveland, Ohio. Expressing oil. 2,533,858, Dec. 12.

Weinberger, George H., assignor to H. Weinberger Limited, London, England. Mechanically operated pencil with screw feed. 2,534,091, Dec. 12.

Weinberger, Henry, Limited, assignee: *See*— Weinberger, George H.

Weingarten, Jack H., New York, N. Y. Tennis racket press. 2,533,338, Dec. 12.

Weissert, Elwood W., Carnegie, assignor to Bertrand P. Tracy Company, Pittsburgh, Pa. Self-locking setscrew. 2,533,748, Dec. 12.

Wells, Lloyd J., El Monte, Calif. Flexible pouring spout structure for liquid containers. 2,533,305, Dec. 12.

Wenger, Harvey M.: *See*— Matthews, Charles, and Wenger.

Wennberg, Odd: *See*— Zinn, Julius A., Jr., and Wennberg.

West Bend Aluminum Company, assignee: *See*— Finch, Leonard E.

Western Electric Company, Incorporated, assignee: *See*— Brandt, Edward A. Christiansen, Milton J., Detuno, and Garbe. Deichmiller, Alwin, and Shalla. Edwards, Karl C., and Jones. Jongedyk, Ralph. Marcus, Jerome R., and Turner.

Westinghouse Electric Corporation, assignee: *See*— Campbell, John M. Hartwig, Edward C. Hushley, Walter J., and Siebert. James, Robert F. Okress, Ernest C. Pendleton, Wesley W., and Philofsky. Wickerham, William R.

Wharton, Edward M.: *See*— Barnard, Harvie, and Wharton.

Wheeler, Percy: *See*— Du Bois, Donald, and Wheeler.

Whigam, Elgin B., United States Navy, San Francisco, Calif. Lathe tool. 2,533,254, Dec. 12.

White, H. N., Company, The, assignee: *See*— Meyers, Fred N.

White, William M.: *See*— Leavitt, Roger P., and White.

Whitehead Stamping Company, assignee: *See*— Whitehead, Thomas C. Zink, Fred W.

Whitehead, Thomas C., assignor to Whitehead Stamping Company, Detroit, Mich. Angularly adjustable bracket arm mounting. 2,533,860, Dec. 12.

Whitehead, Thomas C., assignor to Whitehead Stamping Company, Detroit, Mich. Angularly adjustable bracket arm mounting. 2,533,861, Dec. 12.

Whitehead, Willard J.: *See*— Drake, George F., Whitehead, and Plummer.

Wichman, Wesley T.: *See*— Lamberty, Frederick R., Martins, and Wichman.

Wickerham, William R., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alternating-current hoist control. 2,533,412, Dec. 12.

Widerõe, Rolf, Oslo, Norway, assignor to Aktiengellschaft Brown, Boveri & Cie, Baden, Switzerland. Improved injection system for magnetic induction accelerators. 2,533,859, Dec. 12.

Widmer, Leo, Feldbach-Zurich, assignor to Schweizerische Lokomotiv-und Maschinenfabrik, Winterthur, Switzerland. Axial cylinder pump especially intended for moving liquids. 2,534,153, Dec. 12.

Wilcox, Granville M., Lincoln, and W. S. Johnson, assignors to M. L. Grant, Providence, R. I. Coin collecting and registering apparatus. 2,533,654, Dec. 12.

Wilde, Cecil B.: *See*— Ross, Earl T., and Wilde.

Wilde, Henry D., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Catalytic reactions. 2,534,092, Dec. 12.

Wilhide, Glenn C. J. N. Baker, and F. L. Holford, assignors to The Black & Decker Manufacturing Company, Towson, Md. Impact nut runner. 2,533,703, Dec. 12.

Wilkie, Harry, Dayton, Ohio. Navigational data integrator. 2,533,256, Dec. 12.

Will, Theodore A., Hollis, N. Y. Opening means for cigarette wrappers. 2,533,255, Dec. 12.

Willard, George W., Springfield, Mo. Intermittently engaged clutch variable power transmission. 2,534,093, Dec. 12.

Willard Storage Battery Company, assignee: *See*— Donkin, William F., and Oestermeyer.

Willenborg, Walter J., Weehawken, N. J., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Flammable vapor protection. 2,533,339, Dec. 12.

Williams, Chester I., Grand Rapids, Mich. Anchor lock form aligner. 2,534,154, Dec. 12.

Williams, Everard M.: *See*— De Lano, Ralph B., Jr., and Williams.

Williams, Frank P.: *See*— Hayes, Earl T., Williams, and Sternberg.

Williams, George W., assignee: *See*— Ames, Robert G.

Williams, James H., Lincoln, assignor to Grinnell Corporation, Providence, R. I. Fluid pressure actuated C-clamp. 2,533,413, Dec. 12.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum scale. 2,533,862, Dec. 12.

Willis, Rosalie, assignee: *See*— Crowell, Gordon W.

Willison, Donald: *See*— Buckius, Albert O., and Willison.

Wills, Walter P., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Resistor. 2,533,656, Dec. 12.

Wilmot Engineering Company, assignee: *See*— Wilmot, George L.

Wilmot, George L., Hazleton, Pa., assignor to Wilmot Engineering Company. Apparatus for separating materials of different specific gravities. 2,533,655, Dec. 12.

Winkeljohn, Thomas H., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Finishing rubber articles. 2,533,653, Dec. 12.

Winkler, Gunnar: *See*— Cronvall, Lars P., and Winkler.

Wintle, Harley C., Salina, N. Y., assignor to General Electric Company. Clock timer. 2,534,155, Dec. 12.

Wirth, Emil O., and F. Barfod, assignors to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,533,863, Dec. 12.

Wolfe, Helen E., Arcadia, Calif. Grafting knife. 2,533,657, Dec. 12.

Wood, William L.: *See*— Howlett, John, and Wood.

Woodfield, Thomas H.: *See*— Morton, Cecil J., and Woodfield.

Woods, Henry B.: *See*— Morlan, Erwin A., and Woods.

Woods, Henry B., and F. L. Scott, assignors to Hughes Tool Company, Houston, Tex. Drill cutter. 2,533,257, Dec. 12.

Woods, Henry B., and F. L. Scott, assignors to Hughes Tool Company, Houston, Tex. Cluster tooth cutter. 2,533,259, Dec. 12.

Woods, Henry B., assignor to Hughes Tool Company, Houston, Tex. Rotary drill bit and cutter therefor. 2,533,260, Dec. 12.

Woodward Governor Company, assignee: *See*— Drake, George F., Whitehead, and Plummer.

Wordingham, Maurice G., assignor to Phoenix Products Co., Milwaukee, Wis. Garment hanger cover. 2,533,864, Dec. 12.

Wright Aeronautical Corporation, assignee: *See*— Chilton, Roland.

Wright, Edward A., Elk Creek, Calif. Vacuum cleaner nozzle. 2,534,189, Dec. 12.

Wright, Richard C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Furnace construction. 2,533,658, Dec. 12.

Wyandotte Chemicals Corporation, assignee: *See*— Schwoegler, Edward J.

Wyatt, Collie C.: *See*— Wyatt, Thomas A., C. C., and R. T.

Wyatt, Rue T.: *See*— Wyatt, Thomas A., C. C., and R. T.

Wyatt, Thomas A., C. C., and R. T., Tyler, Tex. Loading and unloading device for vehicle bodies. 2,534,156, Dec. 12.

Wynne, Morgan D., Sr., and T. H., Jr., Griffin, Ga. Fly fishing kit. 2,533,865, Dec. 12.

Wynne, Tillet H., Jr.: *See*— Wynne, Morgan D., Sr., and T. H., Jr.

Yates, Joseph, Bountiful, Utah. Marble shooter. 2,533,659, Dec. 12.

Yellott, John I., Cockeysville, Md., assignor to Bituminous Coal Research, Inc., Washington, D. C. Generating electric locomotive with coal-fired gas turbine. 2,533,866, Dec. 12.

Yerkes, John A., New York, N. Y. Paper punch. 2,534,094, Dec. 12.

Young, Austin E.: *See*— Cook, Curtiss L., and Young.

Young, David W., Roselle, N. J., assignor to Standard Oil Development Company. Hydrocarbon copolymers and use thereof as lube oil additive. 2,534,095, Dec. 12.

Young, James H., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of calcium peroxide. 2,533,660, Dec. 12.

Young, Leonard P., Chester, Conn. Split handle for soldering irons and the like. 2,533,749, Dec. 12.

Young, Lloyd W.: *See*— Chelborg, Rudolph, and Young.

Young, William R., Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Off-channel squelch circuit for radio receivers. 2,533,543, Dec. 12.

Yuffy, Bernard: *See*— Weigle, Francis H., and Yuffy.

Zahodiakin, Victor F., Short Hills, N. J. Fastening device. 2,533,414, Dec. 12.

Zanetti, Andrew D., San Francisco, Calif. Liquid applicator for gluing machines. 2,533,704, Dec. 12.

Zapoleon, Max M., Dayton, Ohio. Golf bag. 2,534,096, Dec. 12.

Zavarella, Raphael, Pittsburgh, Pa. Rotary hydraulic coupling. 2,533,544, Dec. 12.

Zenith Radio Corporation, assignee: *See*— Adler, Robert, and Prentiss. Emde, Kurt. Schwalm, Walter A. Spindler, Joseph C.

Zikmund, Bohumil A., Munster, assignor to Calumet Steel Castings Corporation, Hammond, Ind. Heat-resistant steel alloy. 2,534,190, Dec. 12.

Zimmer, John C.: *See*— Beerbower, Alan, and Zimmer.

Zink, Fred W., assignor to Whitehead Stamping Company, Detroit, Mich. Mirror supporting means. 2,533,867, Dec. 12.

Zinn, Julius A., Jr., Chicago, Ill., and O. Wennberg, Manhasset, N. Y.; said Wennberg assignor to said Zinn. Hydraulic control apparatus. 2,533,705, Dec. 12.

Zuerker, Siegfried, Pennellville, N. Y., assignor to General Electric Company. Sound reproducing device. 2,534,157, Dec. 12.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Line of sight stabilization. P. A. Noxon. Re. 23,303, Dec. 12.
Copper phthalocyanine dyestuffs, Manufacture of. G. M. O'Neal. Re. 23,304, Dec. 12.
Tuner, Automatic. B. A. Schwarz and L. J. Fichter. Re. 23,305, Dec. 12.
Printing and dyeing compositions and processes. F. Zwilgmeyer. Re. 23,306, Dec. 12.
Variable compression ratio internal-combustion engine. H. J. Kratzer. Re. 23,307, Dec. 12.

LIST OF PLANT INVENTIONS

Rose plant. E. G. Fisher. 997–9, Dec. 12.

LIST OF DESIGN INVENTIONS

Band or similar article. Extensible wrist watch. L. H. Knibb. 161,189, Dec. 12.
Bowl. C. Wilkerson. 161,228, Dec. 12.
Bowl or similar article, Glass. T. C. Heisey. 161,179, Dec. 12.
Box, Shadow. J. A. Bu Gay. 161,158, Dec. 12.
Buckle and picture container, Combined separable. M. Hallo. 161,175, Dec. 12.
Cabinet, Toilet tank. K. C. and G. M. Baker. 161,152, Dec. 12.
Casing, Clock. F. H. Fisher. 161,169, Dec. 12.
Casing, Door closer. S. F. Rolph. 161,209, Dec. 12.
Chair, Adjustable. F. Collura. 161,164, Dec. 12.
Christmas tree or similar article, Separable. M. Fridinger. 161,170, Dec. 12.
Circulator, Air. F. Se Bastian. 161,215, Dec. 12.
Comb stand and tray, Combined. P. Morroni. 161,194, Dec. 12.
Cover, Radiator. T. F. O'Connor, Jr. 161,197, Dec. 12.
Covering for awnings or like structures, Rigid. D. H. Ruggles. 161,210, Dec. 12.
Desk or similar article. J. C. Eisenberg. 161,168, Dec. 12.
Dish. D. M. Dickenson, Jr. 161,165, Dec. 12.
Dish set, Alphabet. C. W. Riddle. 161,208, Dec. 12.
Doorstop. W. H. Phelps. 161,200, Dec. 12.
Earring or similar article. A. Philippe. 161,201–2, Dec. 12.
Fabric or similar article. J. Heller. 161,180, Dec. 12.
Fish bowl and handle, Combination transparent. E. A. Rice. 161,207, Dec. 12.
Fountain, Portable electric. R. L. R. Bartholomew. 161,154, Dec. 12.
Frame, Chair. C. W. Harrison. 161,177, Dec. 12.
Frame for a handbag. M. R. Bienen. 161,156, Dec. 12.
Game device, Tethered ball. S. Lang. 161,190, Dec. 12.
Freezer, Ice cream. F. Se Bastian. 161,214, Dec. 12.
Hand rest, Manicurist's. W. J. Hudson and A. W. Scheler. 161,182, Dec. 12.
Handle for a cooking utensil. A. W. Duncan. 161,166–7, Dec. 12.
Hassock. A. Saccoccia. 161,211, Dec. 12.
Holder, Glasses case. E. J. and M. J. Ackerman. 161,151, Dec. 12.
Holder, Paper towel roll. A. A. Perelman. 161,199, Dec. 12.
Holder, Pot cover. P. Redlich and E. C. Steiner. 161,206, Dec. 12.
Holder, Rotary card. G. Browning. 161,157, Dec. 12.
Holder, Utensil. R. F. Gardner. 161,171, Dec. 12.
Lamp, Projection. K. A. Van Dyck. 161,219, Dec. 12
Light, Vehicle. H. L. Lester. 161,193, Dec. 12.
Macerator and juice extractor. R. E. Klug. 161,188, Dec. 12.
Magnifying glass. F. J. Gubics. 161,173, Dec. 12.
Mat or similar article, Rubber. A. Westrate. 161,225–6, Dec. 12.
Mold, Meat. J. Lebovitz. 161,192, Dec. 12.
Mount, Photographic. J. Hecht. 161,178, Dec. 12.
Mowing machine, Power. P. W. Hainke. 161,174, Dec. 12.
Necklace or similar article. A. Katz. 161,184–6, Dec. 12.
Necklace or similar article. A. Philippe. 161,203–4, Dec. 12.
Ornament or similar article, Christmas tree. G. Burros. 161,159–63, Dec. 12.
Plant receptacle and support, Combined. B. Yellin. 161,230, Dec. 12.
Plate or similar article, Dinner. P. L'Anglais. 161,191, Dec. 12.
Platter or similar article, Serving. L. H. Raleigh. 161,205, Dec. 12.
Projector with screen, Slide. K. A. Van Dyck. 161,220, Dec. 12.
Rack or the like, Dish. S. U. Irwin. 161,183, Dec. 12.
Raincoat. M. S. Handler. 161,176, Dec. 12.
Reflector, Lamp. A. A. Klepper. 161,187, Dec. 12.
Shoe. J. Abowitz. 161,150, Dec. 12.
Shoe, Infant's. O. A. Hildebrand. 161,181, Dec. 12.
Snowshoe. F. T. Paden. 161,198, Dec. 12.
Spoon. M. L. Wendling. 161,224, Dec. 12.
Stocking. H. J. Bambach. 161,153, Dec. 12.
Stroller. J. T. Wheeler. 161,227, Dec. 12.
Table. I. Silverman. 161,217, Dec. 12.
Table top or similar article, Leather. L. Scalera. 161,212–13, Dec. 12.
Textile fabric. J. Walther, Jr. 161,221–3, Dec. 12.
Tire, Vehicle. A. H. Benorden. 161,155, Dec. 12.
Toothbrush and tooth paste tube holder or similar article. G. A. Moskowitz. 161,196, Dec. 12.
Toy chest, desk, and love seat for children, Combination. M. Greene. 161,172, Dec. 12.
Toy, Figure. D. H. Wilner. 161,229, Dec. 12.
Toy truck. C. E. Steinke. 161,218, Dec. 12.
Vase and card holder, Combined. M. Mortimer. 161,195, Dec. 12.
Wallpaper or the like. J. Seeman. 161,216, Dec. 12.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 12TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetic acid esters of aralkyl alcohols and their production. E. L. Jenner. 2,533,939, Dec. 12.
Adhesive composition and laminate, Thermosetting. H. M. Cadot. 2,533,994, Dec. 12.
Adjustable article support. I. O. Mitchell, Jr. 2,533,494, Dec. 12.
Adjustable basketball hoop mounting. H. Rubin. 2,534,067, Dec. 12.
Adjustable fastener. L. Roseman. 2,534,064, Dec. 12.
Adjustable hay feed rack. I. Anson. 2,533,984, Dec. 12.
Adjusting means for hinges. R. T. Philips. 2,533,502, Dec. 12.
Aerator, Aquarium. C. H. Holmes and J. L. Snyder. 2,533,936, Dec. 12.
Air and water heating furnace. C. E. Rice. 2,533,692, Dec. 12.
Aircraft skid, Shock absorbing. V. H. Patriarche. 2,533,951, Dec. 12.
Aircraft with retractable rotary wings. A. I. Roman. 2,534,062, Dec. 12.
Airplane, Convertible amphibian. T. C. Patecell. 2,534,206, Dec. 12.
Airplane, Roadable. R. E. Fulton, Jr. 2,533,925, Dec. 12.
Alarm device, Thermal. D. M. Palmer. 2,533,835, Dec. 12.
Alkali alkyl xanthates, Preparation of. B. M. Vanderbilt and J. P. Thorn. 2,534,085, Dec. 12.
Alkyd resins. O.-S. Linkletter and J. L. Johnson. 2,533,270, Dec. 12.
Alkyl aryl hydrocarbons, Manufacture of. E. J. Schwoegler. 2,533,517, Dec. 12.
Alkyl benzenes, Production of. W. A. Schulze. 2,534,072, Dec. 12.
Alloy: *See*—
  Heat-resistant steel alloy.
Alternating-current hoist control. W. R. Wickerham. 2,533,412, Dec. 12.
Amides, Preparing. D. T. Mowry. 2,534,204, Dec. 12.
Amine addition salts of steroid-3-monosulfates. G. A. Grant, W. L. Glen, and R. J. Barber. 2,534,121, Dec. 12.
Amines containing the ring system of lysergic acid or dihydrolysergic acid and making same. A. Stoll, A. Hofmann, and F. Troxler. 2,533,699, Dec. 12.
Ammeter, Thermistor high-frequency. O. H. Schmitt. 2,533,289, Dec. 12.
Ammonia recovery unit. A. S. Brunjes. 2,533,992, Dec. 12.
Amplifier, Selective. D. L. Hings. 2,533,802, Dec. 17.
Analyzing flue gas, Method and apparatus for. S. Chase. 2,533,430, Dec. 12.
Anchor. J. E. Jones. 2,533,586, Dec. 12.
Anchor lock form aligner. C. I. Williams. 2,534,154, Dec. 12.
Anchor, Rail. J. A. Hyle. 2,533,375, Dec. 12.
Angularly adjustable bracket arm mounting. T. C. Whitehead. 2,533,860–1, Dec. 12.
Animal trap. F. A. Snell. 2,533,844, Dec. 12.
Antenna. J. P. Shanklin. 2,533,900, Dec. 12.
Antenna array. R. A. Felsenheld. 2,533,236, Dec. 12.
Antenna, Wide band. J. C. Spindler. 2,533,529, Dec. 12.
Antifreeze composition. E. H. Keller. 2,534,030, Dec. 12.
Antioxidants for greases and similar materials. A. Beerbower and J. C. Zimmer. 2,533,989, Dec. 12.
Antiskid device for vehicle wheels, Mechanically operated. W. G. Hardy. 2,533,244, Dec. 12.
Anvil attachment for dial indicators, Shock absorbing. J. G. Sisson. 2,533,522, Dec. 12.
Apparatus and method for filling molds. G. Atterbury. 2,533,986, Dec. 12.
Apparatus and method for removing excess mixing water from plastic concrete. J. G. A. Johnson. 2,533,263, Dec. 12.
Apparatus for and method of charging batch to glass furnaces. A. K. Lyle. 2,533,826, Dec. 12.
Apparatus for casting chocolate, cream and other confectionery paste. K. C. S. Aasted. 2,533,708, Dec. 12.
Apparatus for comminuting and mixing materials. B. Goldman. 2,533,241, Dec. 12.
Apparatus for enciphering and deciphering cryptographic communications. F. M. Martinez. 2,533,384, Dec. 12.
Apparatus for freezing fluids. E. H. and M. H. Pace. 2,533,616, Dec. 12.
Apparatus for manufacturing radio tubes. M. J. Christiansen, R. J. Detuno, and H. W. Garbe. 2,533,919, Dec. 12.
Apparatus for measuring ordinates on a strip chart. D. K. Warner. 2,533,649, Dec. 12.
Apparatus for processing plastic material. H. Harris and L. M. Ware. 2,533,796, Dec. 12.
Apparatus for regulating combustion in spreader stoker furnaces. E. C. Miller. 2,534,049, Dec. 12.
Apparatus for removing water by capillary action from moist perishables. J. F. P. Newhall and W. A. Bridgeman. 2,534,205, Dec. 12.
Apparatus for returning matrices to linotype machines. M. S. Maust. 2,533,488, Dec. 12.
Apparatus for separating materials of different specific gravities. G. L. Wilmot. 2,533,655, Dec. 12.
Apparatus for shock therapy. A. MacPhail. 2,534,043, Dec. 12.
Apparatus for spraying cementitious compositions. S. Fjeldstad. 2,534,116, Dec. 12.
Apparatus for the manufacture of twist drills. H. W. Delaney. 2,533,227, Dec. 12.
Apparatus for welding slabs. P. M. Mueller. 2,533,603, Dec. 12.
Applicator, Fluid. J. W. Turley. 2,534,082, Dec. 12.
Applicator for gluing machines, Liquid. A. D. Zanetti. 2,533,704, Dec. 12.
Arc extinguishing means for alternating current electric switches. H. E. Schleicher. 2,534,069, Dec. 12.
Arginine base, Manufacture of. D. J. Bernardi and F. A. Dostal. 2,533,215, Dec. 12.
Artificial flies, Making. W. F. and D. I. Sivey. 2,533,523, Dec. 12.
Artificial limb and valve therefor. O. Sharp and W. Bellamy. 2,533,404, Dec. 12.
Artificial sphincter. F. E. B. Foley. 2,533,924, Dec. 12.
Artificial teat. J. Verner. 2,533,643, Dec. 12.
Attaching a leader to a hook. D. J. Benoit. 2,533,418, Dec. 12.
Attachment for "Doall" machines, Antivibration. T. W. G. Lyons. 2,533,272, Dec. 12.
Attachment for lathes, Pilot turning. D. Du Bois and P. Wheeler. 2,533,665, Dec. 12.
Attachment for lawn mowers. G. H. Spence. 2,533,745, Dec. 12.
Attachment for oil burners. T. J. Maciejewski. 2,533,596, Dec. 12.
Attachment for sewing machines. P. J. Stuster. 2,533,746, Dec. 12.
Attachment for sewing machines, Ruffler. V. J. Sigoda. 2,533,291, Dec. 12.
Audio controlled limiter. D. L. Hings. 2,533,803, Dec. 12.
Automatic transmission gear box. H. G. Kirkpatrick. 2,534,134, Dec. 12.
Automobile vehicle. M. A. C. Alamagny. 2,533,752, Dec. 12.
Awning, Rigid. B. C. Stone. 2,533,846, Dec. 12.
Baby's automobile seat. J. A. Soltis. 2,533,527, Dec. 12.
Back rest, Adjustable. S. R. Feasler and A. W. Gressinger. 2,534,009, Dec. 12.
Bag: *See*—
  Golf bag.
Bag for paintbrushes and the like, Storage. G. Merryweather. 2,533,829, Dec. 12.
Balancing centrifugal drying and washing machine. J. G. De Remer. 2,533,722, Dec. 12.
Ball release mechanism for measuring instruments. J. L. Rawlings. 2,533,896, Dec. 12.
Barn cleaning apparatus. C. Matthews and H. M. Wenger. 2,533,676, Dec. 12.
Bathing cap. T. C. Di Giovanna. 2,533,879, Dec. 12.
Bathing cap. J. E. Feldman. 2,533,444, Dec. 12.
Bathtub. C. J. Rodman. 2,534,147, Dec. 12.
Bathtub and producing the same. C. J. Rodman. 2,534,146, Dec. 12.
Bathtub mounting. D. La Barre. 2,533,591, Dec. 12.
Battery, Deferred action. A. Pitt. 2,534,056, Dec. 12.
Battery nonspill vent plug. W. F. Donkin and C. F. Oestermeyer. 2,533,880, Dec. 12.
Beacon, Omnidirectional radio. E. N. Dingley, Jr. 2,533,229, Dec. 12.
Bead hydrogel and apparatus therefor, Preparation of. T. H. Milliken, Jr., and E. H. Lebels, Jr. 2,533,278, Dec. 12.
Bearing mounting. C. J. Morton and T. H. Woodfield. 2,534,142, Dec. 12.
Bed, Collapsible baby. G. A. and E. T. Sole. 2,533,970, Dec. 12.
Bedpan attachment. V. J. and P. Delisi. 2,533,774, Dec. 12.
Belt drive assembly. C. C. Lindsay. 2,534,041, Dec. 12.
Bending apparatus. S. H. Kapelis. 2,533,470, Dec. 12.
$\beta\beta$-dicyanoketene dialkyl mercaptoles and their preparation. H. D. Edwards and J. D. Kendall. 2,533,233, Dec. 12.
Beverage preparing and dispensing apparatus. H. H. Harr. 2,533,930, Dec. 12.
Bin, Re-usable pallet. D. H. Frye. 2,534,010–11, Dec. 12.

Blank feeding and locating mechanism for punch presses. E. A. Brandt. 2,533,914, Dec. 12.
Block: *See*—
Starting block.
Block baffle construction for multiple tube fluid heaters, Multiple. C. S. Reed and O. C. Schauble. 2,534,208, Dec. 12.
Blow gun for cleaning machines or the like. E. H. Shaff. 2,534,183, Dec. 12.
Blower and vacuum cleaner, Combined. C. W. Lanter. 2,533,268, Dec. 12.
Boat, Foldable. A. S. Carter. 2,533,220, Dec. 12.
Bobbin for knitting yarn and the like. J. Gomberg. 2,533,731, Dec. 12.
Bobbin gear assembly for roving frames. R. Q. Hollingsworth. 2,533,669, Dec. 12.
Boot, Rubber-coated stocking-foot. G. W. Gottschalk. 2,533,453, Dec. 12.
Bottle. H. R. Holzapfel. 2,533,806, Dec. 12.
Bottle and holder therefor. C. H. Burger. 2,533,349, Dec. 12.
Bottle, Continuous delivery chemical wash. N. F. Floyd. 2,533,726, Dec. 12.
Bottle opener, Fulcrum type. F. K. Krag. 2,533,818, Dec. 12.
Bowl, Salad. V. E. Tinder. 2,533,853, Dec. 12.
Box: *See*—
Automatic transmission gear box.
Card box.
Fuel oil tank intake box.
Journal box.
Suction box.
Box kite. W. M. Foy. 2,533,570, Dec. 12.
Boxes, Making steel toe. W. W. Somersall. 2,533,528, Dec. 12.
Brace for sawhorses, Metal. O. L. Dustman. 2,533,776, Dec. 12.
Bracket and channel circle gutter support. M. Rachlin. 2,534,145, Dec. 12.
Brake: *See*—
Printing press brake.
Branch pipe breeching for pressure conduits. P. F. Danel. 2,533,720, Dec. 12.
Bridge discriminator, Low-level. W. C. Moore. 2,533,496, Dec. 12.
Bridle, Bull. M. R. Warrick. 2,533,857, Dec. 12.
Brush means for shoe shining machines, Rotary. J. L. Jenkins. 2,534,131, Dec. 12.
Buckle, Expansion. G. J. Hickey. 2,534,200, Dec. 12.
Burner: *See*—
Vaporizer type oil burner.
Vaporizing-type liquid fuel burner.
Vaporizing tray type oil burner.
Burner with radial fuel nozzles, Oil. A. Clarkson. 2,534,160, Dec. 12.
Bushing for rotary oil well drilling machines, Master. A. R. Maier. 2,533,597, Dec. 12.
Bust support. R. Ciringione. 2,533,312, Dec. 12.
Cable weight for hoists. G. G. Marx. 2,534,044, Dec. 12.
Cables, Manufacture of electric. A. J. Huck. 2,533,460, Dec. 12.
Calcium peroxide, Preparation of. J. H. Young. 2,533,660, Dec. 12.
Calculating machine. N. T. Pierce. 2,533,954, Dec. 12.
Calculator. J. A. Espinola. 2,533,569, Dec. 12.
Calculator. E. F. Hall. 2,535,580, Dec. 12.
Calender, Including upper and lower rollers with improved guiding and lifting means for central roller means. J. Dungler. 2,533,724, Dec. 12.
Calendering sheet material. C. E. Dill. 2,533,228, Dec. 12.
c-Alkyl hydroquinones and c-alkyl p-aminophenols, Preparation of. F. R. Bean. 2,533,203, Dec. 12.
Camera shutter. J. W. E. Hearn and F. B. Meech. 2,533,800, Dec. 12.
Candle. H. A. Shaw. 2,533,290, Dec. 12.
Cap: *See*—
Bathing cap.
Caramel color separation. J. E. Cleland and J. B. Longenecker. 2,533,221, Dec. 12.
Carburetion device. M. L. Mennesson. 2,533,602, Dec. 12.
Card box. P. S. Godfrey. 2,533,577, Dec. 12.
Card delivery mechanism for sorting machines. K. J. Braun. 2,533,422, Dec. 12.
Card feeding device. A. F. Hayek. 2,533,932, Dec. 12.
Card handling mechanism. R. T. Blakely. 2,533,309, Dec. 12.
Carrier: *See*—
Wheeled golf club carrier.
Carrier for destructive distillation, Radiantly heated rotary. L. A. Mekler. 2,533,492, Dec. 12.
Carrying means for golf bags. C. H. Endee. 2,533,440, Dec. 12.
Carton closure having metallic clip fastening means, Resealable. G. S. Vivian. 2,533,539, Dec. 12.
Carton, Egg. W. H. Allen and M. G. Hall. 2,533,340, Dec. 12.
Carton having metal corrosion inhibiting characteristics. C. A. Hutter. 2,534,201, Dec. 12.
Casein filaments treated with mercuric salt and formaldehyde solution. J. F. Corwin, J. R. Calhoun, and T. M. Buzzo. 2,533,356, Dec. 12.
Casket sealing means. J. J. McEwan. 2,533,827–8, Dec. 12.
Caster with grounding link. E. Schultz. 2,533,403, Dec. 12.
Catalyst chamber and heating same. H. R. Legatski. 2,533,945, Dec. 12.
Catalyst recovery process. W. F. Gresham and W. E. Grigsby. 2,534,017, Dec. 12.
Catalytic amine-ketone condensation. B. A. Dombrow. 2,533,723, Dec. 12.
Catalytic hydrocarbon conversion. J. A. Ridgway, Jr., and P. Hill. 2,533,284, Dec. 12.
Catalytic reactions. H. D. Wilde. 2,534,092, Dec. 12.
Catcher and holder, Animal. W. E. Dixon. 2,533,230, Dec. 12.
Cathode-ray tube. D. E. Sunstein and A. H. Mankin. 2,533,334, Dec. 12.
Cation exchange process. C. H. Lemke. 2,533,593, Dec. 12.
Cemented transparency. G. J. Koch. 2,533,474, Dec. 12.
Cementing machine, Sole-margin. L. H. Mulhern and N. Spugnardi. 2,533,497, Dec. 12.
Centric relator. S. H. Hirschhorn. 2,534,023, Dec. 12.
Centrifugal clutch. H. G. Kirkpatrick. 2,534,133, Dec. 12.
Centrifugal separation. A. H. Schutte and W. F. O'Connor. 2,534,210, Dec. 12.
Chain tightening device. G. M. Burnett. 2,533,918, Dec. 12.
Chair: *See*—
Reclining chair.
Chair, Ironing board, and stepladder, Convertible. C. R. Scarborough. 2,533,515, Dec. 12.
Charge forming device. E. O. Wirth and F. Barfod. 2,533,863, Dec. 12.
Cheese cutter. P. N. Nelson. 2,533,682, Dec. 12.
Chipping machine. R. H. Nile and M. S. Roberts. 2,533,892, Dec. 12.
Chiropractic portable table. M. E. Gebhart. 2,533,787, Dec. 12.
Chlorine dioxide gas, Preparing. J. W. Sevón and F. V. Sundman. 2,533,842, Dec. 12.
Choker hook and line. J. Aconley. 2,533,905, Dec. 12.
Chuck, Permanent magnet. E. H. Brandenburg. 2,533,348, Dec. 12.
Circuit: *See*—
Keying circuit.
Voltage splitting circuit.
Circuit breaker and indicating device therefor, Electric. T. Curson. 2,534,107, Dec. 12.
Circuit breaker with lever type current connection. C. D. Ainsworth and G. E. Jansson. 2,533,545, Dec. 12.
Circuit changing mechanism, Centrifugally activated. C. S. Phillips. 2,534,143, Dec. 12.
Circuit controller. J. F. Freee. 2,533,238, Dec. 12.
Circuit for cathode-ray oscilliographs, Time base. S. S. Hill. 2,533,251, Dec. 12.
Circuit for radio receivers, Off-channel squelch. W. R. Young, Jr. 2,533,543, Dec. 12.
Circuits, Electrical control. P. Glass and F. E. Prem. 2,534,196, Dec. 12.
Circuits, Electronic control. L. H. Erickson. 2,533,567, Dec. 12.
Circuits, Heat sensitive. O. H. Schmitt. 2,533,286, Dec. 12.
Circular saw making. J. H. and R. M. Warburg. 2,533,648, Dec. 12.
Clamp: *See*—
Fluid pressure actuated C-clamp.
Ground clamp.
Support clamp.
Clapper for telephone ringers. R. T. Jenkins. 2,533,465, Dec. 12.
Clarifier of sewage by colloidal degeneration. E. A. Cox. 2,533,223, Dec. 12.
Cleaner: *See*—
Window cleaner.
Cleaning or laundry machine. L. M. Kahn. 2,533,888, Dec. 12.
Clip for cotton picker spindle slats, End. J. D. Rust. 2,533,631, Dec. 12.
Closure for dispensing tubes and the like. G. F. McLaughlin. 2,534,139, Dec. 12.
Closure for milk tank manholes Vented. J. H. De Frees. 2,533,771, Dec. 12.
Cluster tooth cutter. H. B. Woods and F. L. Scott. 2,533,259, Dec. 12.
Clutch: *See*—
Centrifugal clutch.
Limited movement clutch.
Clutch. L. E. La Brie. 2,534,033–4, Dec. 12.
Clutch. J. E. Leininger and C. L. Seaton. 2,533,480, Dec. 12.
Clutch bearing lubrication. D. W. Erskine. 2,533,568, Dec. 12.
Clutch spring anchorage. C. P. Pepper. 2,533,952, Dec. 12.
Coal heaver. H. C. Hill. 2,533,886, Dec. 12.
Coated wire screen cloth, Making. F. C. Elder. 2,533,439, Dec. 12.
Coating compositions, Insecticidal paper. G. W. Fiero, H. F. Seeland, and G. H. Batt. 2,534,008, Dec. 12.
Coating containing rubber latex, Photosensitive. H. C. Staehle. 2,533,530, Dec. 12.
Coil, High-potential. R. B. Gethmann. 2,534,119, Dec. 12.
Coil-winding machine, Universal. C. D. Richard. 2,533,506, Dec. 12.
Coin collecting and registering apparatus. G. M. Wilcox and W. S. Johnson. 2,533,654, Dec. 12.
Commutator. F. J. Durrschmidt. 2,533,775, Dec. 12.
Composite piston ring. M. C. Holley. 2,533,805, Dec. 12.

Computer, Print exposure. J. W. McFarlane and C. E. Moses. 2,533,489, Dec. 12.
Computing device. W. Farbman. 2,533,443, Dec. 12.
Concrete, Process and apparatus for preparing. C. Tietig. 2,533,852, Dec. 12.
Condenser: *See*—
Electrical condenser.
Vacuum condenser.
Variable capacity condenser.
Condensers, Making electrical. P. R. Coursey. 2,533,717, Dec. 12.
Condensers, Making electrical. P. R. Coursey, C. H. Munday, and K. A. Gough. 2,533,718, Dec. 12.
Conditioning iron catalyst. R. V. Safford. 2,533,694, Dec. 12.
Confection mold. A. Ricciardi. 2,534,059, Dec. 12.
Connecting device, Electric. F. G. Bac. 2,533,343, Dec. 12.
Connecting mechanism. K. C. Edwards and D. D. Jones. 2,533,923, Dec. 12.
Connector: *See*—
Quick detachable battery connector.
Consistency meter. H. Barnard and E. M. Wharton. 2,533,213, Dec. 12.
Container: *See*—
Easy opening container.
Sanitary container.
Ventilated corrugated board container.
Container closing apparatus. S. W. Dennis and E. Henschen. 2,533,437, Dec. 12.
Container for cosmetics. J. G. Baumgartner. 2,534,100, Dec. 12.
Container forming machine, Lined. J. G. Vergobbi. 2,533,642, Dec. 12.
Control device for lifting pins on molding machines. H. J. Rothschild. 2,533,960, Dec. 12.
Control for aircraft drives. E. J. Greenwood. 2,534,168, Dec. 12.
Control system for aircraft, Pilot operated. C. L. Weaver. 2,533,702, Dec. 12.
Controller. A. E. Kittredge. 2,533,587, Dec. 12.
Converting oil operated railway marker lamps to battery operated railway marker lamps. C. R. Love. 2,534,042, Dec. 12.
Conveyer. R. C. Parkes. 2,534,054, Dec. 12.
Copolymerization of maleic anhydride and allyl esters of long chain monocarboxylic acids. J. L. Jones. 2,533,376, Dec. 12.
Copolymerizing monomers having different polymerization rates. W. L. J. de Nie and R. H. M. Meyer. 2,534,108, Dec. 12.
Copolymers containing 9-methylenefluorene. J. B. Dickey and H. W. Coover, Jr. 2,533,207, Dec. 12.
Copolymers of styrene and para-vinyl-benzyl compounds. W. S. Emerson. 2,534,193, Dec. 12.
Copyholder. B. Fuchs. 2,533,727, Dec. 12.
Copyholder. H. Van Buren. 2,533,856, Dec. 12.
Cosmetic kit. D. Risberg and M. Heiman. 2,533,507, Dec. 12.
Cotton stripper. M. W. Roscoe. 2,533,510, Dec. 12.
Coupler, Antitelescoping. G. T. Johnson. 2,533,940, Dec. 12.
Coupler, Lubricant operated. H. R. Tear. 2,533,637, Dec. 12.
Coupler, Quick disconnect hydraulic. R. M. Ulrich. 2,533,640, Dec. 12.
Coupling: *See*—
Rotary hydraulic coupling.
Self-flaring pipe coupling.
Speed controlled coupling.
Threadless tube coupling.
Coupling. T. A. Hill. 2,533,885, Dec. 12.
Cover: *See*—
Folding plastic book cover.
Garment hanger cover.
Telescopic sight lens cover.
Cover for airplanes, Cockpit. W. A. J. Backer. 2,533,548, Dec. 12.
Crate. R. J. Byers. 2,533,663, Dec. 12.
Crib frame and chest of drawers structure, Combination separable. F. H. Weigle and B. Yuffy. 2,533,983, Dec. 12.
Crusher and container, Cigarette. B. F. Michel. 2,533,679, Dec. 12.
Curtain. W. S. Brandvein. 2,533,873, Dec. 12.
Curtain construction. E. P. Bizer. 2,533,216, Dec. 12.
Cushion for clutch plates. H. C. Goodchild. 2,533,789, Dec. 12.
Cutter: *See*—
Cheese cutter.
Cluster tooth cutter.
Drill cutter.
Metal strip cutter.
Cutting plate of dry-shaving apparatus. W. L. L. Vivie. 2,533,979, Dec. 12.
Cyanine dyestuff intermediates. J. D. Kendall and F. P. Doyle. 2,533,816, Dec. 12.
Cylinder assembly. W. T. Stephens. 2,533,531, Dec. 12.
Cylinder head structure for internal-combustion engines. W. V. Falcon. 2,533,442, Dec. 12.
Cylinder of telescopic construction, Master. E. F. Loweke. 2,533,824, Dec. 12.
Cylinder press embossing and producing the same. H. P. Otto. 2,533,834, Dec. 12.
Data transformation system. D. H. Gridley. 2,533,242, Dec. 12.
Defrosting system for refrigerators. P. Kollsman. 2,534,031, Dec. 12.
Defrosting system, Refrigerator. P. Kollsman. 2,534,032, Dec. 12.
Delivery mechanism for bottle-washing machines. F. H. Fruhling. 2,533,784, Dec. 12.
Demodulation apparatus for pulse multiplex pulse time modulated signals. A. M. Skellett. 2,533,405, Dec. 12.
Detecting equipment. L. J. La Marca. 2,533,820, Dec. 12.
Detector of the focused rotary electron beam kind, Coincidence. R. R. Schramm. 2,533,401, Dec. 12.
Determining time from target by signal reflection, Method and apparatus for. E. O. Kelzer. 2,533,889, Dec. 12.
Detonation meter. D. R. de Boisblanc. 2,534,005, Dec. 12.
Detonation voltage measuring means. D. R. de Boisblanc. 2,534,004, Dec. 12.
Device comprising a discharge tube sensitive to space charge variations. F. Coeterier. 2,533,767, Dec. 12.
Device for four-color stereoscopic cinematography based on additional synthesis. L. Cristiani. 2,533,719, Dec. 12.
Device for measuring angles and other dimensions. W. J. King. 2,533,890, Dec. 12.
Device for studying the characteristics of a phenomenon. R. P. Leroy. 2,533,594, Dec. 12.
Devices for precipitating and drawing off annoying and harmful vapors and gases. G. Deibel. 2,533,562, Dec. 12.
Device for precipitating and drawing off annoying and harmful vapors and gases developing during boiling of acids. G. Deibel. 2,533,561, Dec. 12.
Diborane purification process. G. W. Schaeffer and G. D. Barbaras. 2,533,696, Dec. 12.
Die. A. Deichmiller and E. F. Shalla. 2,533,922, Dec. 12.
Die head device. C. H. Klein. 2,533,943, Dec. 12.
Digger, Posthole. W. H. Roelfs. 2,533,957, Dec. 12.
Dinitrile compound. I. D. Webb. 2,534,088, Dec. 12.
Direction finding. E. C. Walsh. 2,533,299, Dec. 12.
Discharge tube control, Electronic. G. A. Bonadio. 2,533,760, Dec. 12.
Dispenser: *See*—
Fishing leader dispenser.
Paper cup dispenser.
Plastic refill wax paper dispenser.
Dispenser for papers and the like. F. C. Ransom. 2,533,623, Dec. 12.
Dispenser for plumbing fixtures, Soap. L. Levy. 2,533,380, Dec. 12.
Dispenser for shortening having an extruding piston operatively connected to the closure for the dispensing opening. R. T. Osman. 2,533,282, Dec. 12.
Dispensing device, Beverage. J. V. Oliveau. 2,533,281, Dec. 12.
Display case and spray system, Refrigerated vegetable. J. S. Booth. 2,533,913, Dec. 12.
Display device having removable nonrigid panel. J. M. Eichelman. 2,533,565, Dec. 12.
Display package and tray. G. A. Moore. 2,533,738, Dec. 12.
Dissolution of regenerated cellulose with urea-alkali-stannate solvent. C. L. Mantell. 2,533,598, Dec. 12.
Distilling polymer-forming hydrocarbons and removing polymer from distillation equipment. B. S. Garrett, 2,534,013, Dec. 12.
Donning mechanism for bobbin handling machines. R. P. Drake. 2,534,162, Dec. 12.
Door knob. E. C. Gadpaille. 2,534,012, Dec. 12.
Door latch. D. W. Keef. 2,533,377, Dec. 12.
Door mechanism for railway cars. L. J. Tillman. 2,533,536, Dec. 12.
Draft bar rigging for railway cars. G. W. Lowry. 2,533,825, Dec. 12.
Draft key retainer. F. F. Hayes. 2,534,125, Dec. 12.
Draft rigging. H. L. Spence and W. J. Metzger. 2,533,903, Dec. 12.
Drapery ring. E. Eutsler. 2,533,780, Dec. 12.
Dress form. R. W. Akers. 2,533,906, Dec. 12.
Dress trim. L. Z. McClintock. 2,533,891, Dec. 12.
Drier and stretcher, Adjustable fur pelt. E. Schulz, Sr., and T. A. Miskowsi. 2,534,071, Dec. 12.
Drill bit and cutter therefor, Rotary. H. B. Woods. 2,533,260, Dec. 12.
Drill cutter. E. A. Morlan and H. B. Woods. 2,533,258, Dec. 12.
Drill cutter. H. B. Woods and F. L. Scott. 2,533,257, Dec. 12.
Drill for cutting post holes in rock, Weighted. J. J. Canales. 2,533,555, Dec. 12.
Drilling machine, Hydraulic. R. H. Geisler and C. H. Skeen. 2,534,118, Dec. 12.
Drive arm mechanism. C. R. Sacchini. 2,533,963, Dec. 12.
Driver actuating mechanism for fastening inserting machines. B. B. Blanchard. 2,533,419, Dec. 12.
Driving and steering mechanism for motor vehicles. E. F. Norelius. 2,533,610, Dec. 12.
Dry granular mix. W. L. Howe. 2,534,128–9, Dec. 12.
Dry-shaving appliance. H. B. Randolph. 2,533,622, Dec. 12.
Dust extracting device. U. O. Blomquist and S. W. Wallin. 2,533,991, Dec. 12.
Dye, Coppered azo. H. W. Grimmel and J. F. Morgan. 2,534,197 Dec. 12.
Dynamoelectric machine. D. F. Smalley. 2,534,150, Dec. 12.
Dynodes, Method and apparatus for making. W. S. McLean. 2,533,387, Dec. 12.

Easy opening container. J. Henchert. 2,533,934, Dec. 12.
Edge cleaning apparatus. J. R. Marcus and F. W. Turner. 2,533,048, Dec. 12.
Educational apparatus. A. Tellier. 2,533,535, Dec. 12.
Egg yolk and white separator. O. W. Groeber and W. McCord. 2,533,365, Dec. 12.
Electric accumulators, Lead-acid type. W. E. Batt. 2,533,709, Dec. 12.
Electric distribution system. L. H. Crook. 2,533,920, Dec. 12.
Electric proportioning control apparatus with reset. W. H. Wannamaker, Jr. 2,533,411, Dec. 12.
Electric resistance element and heat-treatment. J. M. Lohr. 2,533,735–6, Dec. 12.
Electric terminal system. M. A. Losquadro. 2,533,483, Dec. 12.
Electrical condenser. P. R. Coursey. 2,533,716, Dec. 12.
Electrical insulation comprising polytetrafluoroethylene. W. W. Pendelton and H. M. Philofsky. 2,533,501, Dec. 12.
Electrical resistor construction. J. J. Cerney. 2,533,876, Dec. 12.
Electrode assembly. M. Ingram. 2,533,462, Dec. 12.
Electrodeposition of nickel. W. B. Stoddard, Jr. 2,533,532, Dec. 12.
Electrolytic production of gelatinous titanium hydrate nuclei. B. W. Allan and F. O. Rummery. 2,533,208, Dec. 12.
Electronic counting ring. R. E. Mumma. 2,533,739, Dec. 12.
Electronic device for timing toll calls and for signaling both subscriber and operator. H. J. McCreary. 2,533,677, Dec. 12.
Electronic range finding apparatus. G. W. Hart. 2,533,670, Dec. 12.
Electrooptical dark trace picture tube. G. Levy and W. Simbrat. 2,533,381, Dec. 12.
Electroplating mechanism, Agitating. C. L. Fread. 2,534,165, Dec. 12.
Elevator. G. L. Ely. 2,534,192, Dec. 12.
Elevator, Tobacco. J. M. Jones. 2,533,813, Dec. 12.
Embossing machine, Record controlled. J. H. Gruver. 2,533,366, Dec. 12.
Enamel and preparing the same. H. A. Bates. 2,533,911, Dec. 12.
Engine: *See*—
Internal-combustion engine.
Engine and connecting rod structure therefor, Internal-combustion. R. Chilton. 2,533,558, Dec. 12.
Engine speed control. V. A. Roach. 2,533,627, Dec. 12.
Engine starter. J. Knezo, Jr. 2,533,379, Dec. 12.
Engine starting device. L. D. Boyce. 2,533,551, Dec. 12.
Eraser for pencils, Adjustable. C. R. Hicks. 2,533,668, Dec. 12.
Ester-acetals, Preparation of. C. H. McKeever and G. H. Agnew. 2,533,276, Dec. 12.
Ester of 1,5-pentanediol and its preparation. S. J. Hetzel. 2,533,250, Dec. 12.
Esters of aliphatic monocarboxylic acids and polybutadiene alcohols and preparing the same. E. L. Jenner. 2,533,938, Dec. 12.
Esters, Preparation of. J. Lomartire. 2,533,323, Dec. 12.
Evener for a span of horses. E. L. Way. 2,533,651, Dec. 12.
Exercising equipment. M. MacGregor. 2,533,273, Dec. 12.
Expansible tube plug. A. A. Conklin and R. G. Sherman. 2,533,715, Dec. 12.
Expressing oil. F. W. Weigel. 2,533,858, Dec. 12.
Extracting device with vibrating strainer, Juice. I. Jepson. 2,533,811, Dec. 12.
Extraction of type A specific substance. H. O. Singher and C. R. Harmison. 2,533,294, Dec. 12.
Extractor provided with means for unloading it. J. Stuart, II. 2,533,296, Dec. 12.
Extruding apparatus. R. Jongedyk. 2,533,942, Dec. 12.
Fabricating bellows. W. C. Hasselhorn. 2,534,124, Dec. 12.
Fastener: *See*—
Adjustable fastener.
Fastener for cinematographic films. F. J. Kronfield. 2,533,819, Dec. 12.
Fastening device. R. A. Hartman. 2,533,797, Dec. 12.
Fastening device. V. F. Zahodiakin. 2,533,414, Dec. 12.
Fastening strip. G. E. Gagnier. 2,533,786, Dec. 12.
Feed box for fiber scouring machines. E. H. Brooks, Sr. 2,533,218, Dec. 12.
Feed device for gas torches, Starting rod. E. J. Clinton, Jr., and J. J. Flynn. 2,533,353, Dec. 12.
Feed means for the reboiler of a fractionating column. W. W. Kraft. 2,534,173, Dec. 12.
Feeder: *See*—
Hog feeder.
Feeder for poultry, Growing. W. W. Faris. 2,534,114, Dec. 12.
Filament tester. J. B. Steiding. 2,533,332, Dec. 12.
Fillercap mechanism. M. M. Culver and L. L. Duncan. 2,534,003, Dec. 12.
Filler feeding mechanism for sewing machines. V. J. Sigoda. 2,533,293, Dec. 12.
Filling containers, Method of an apparatus for. R. W. Vergobbi. 2,533,641, Dec. 12.
Filter. J. P. Kovacs and W. H. Hultgren. 2,533,266, Dec. 12.
Filter cleaning apparatus. G. H. Vokes. 2,533,644, Dec. 12.
Filter cleaner for vacuum dust collectors. J. B. Kirby. 2,534,171, Dec. 12.
Filter drum screen fastening means. R. R. Collins. 2,534,161, Dec. 12.
Filter rack. E. V. Kelly. 2,533,815, Dec. 12.
Finishing rubber articles. T. H. Winkeljohn. 2,533,653, Dec. 12.
Fire extinguisher. I. Nurkiewicz. 2,533,685, Dec. 12.
Fire hose support. F. J. Lee. 2,533,823, Dec. 12.
Fishhook. R. W. Van Arkel. 2,534,152, Dec. 12.
Fishing leader dispenser. E. Moffett. 2,533,495, Dec. 12.
Fishing kit, Fly. M. D., Sr. and T. H. Wynne, Jr. 2,533,865, Dec. 12.
Fishing rod handle. K. W. Irvan. 2,534,027, Dec. 12.
Fixture assembly for elongated tubular lamps. A. L. Arenberg, R. G. Nordquist, and O. W. Rahn. 2,533,661, Dec. 12.
Fixture for tubular fluorescent lamps, Electric. M. W. Schwartz and M. J. Marks. 2,534,182, Dec. 12.
Flag holder. W. J. L. Flick. 2,534,117, Dec. 12.
Flag holder. C. E. Holliday. 2,533,459, Dec. 12.
Floating holder. B. Better and J. W. Lehde, Jr. 2,533,758, Dec. 12.
Flowerpot hanger. C. Stender. 2,533,845, Dec. 12.
Fluid pressure actuated C-clamp. J. H. Williams. 2,533,413, Dec. 12.
Fluid pump. L. H. Schmohl and J. L. Habe. 2,533,965, Dec. 12.
Fluid sampling apparatus. N. J. Roberts. 2,534,181, Dec. 12.
Fluidized low-temperature carbonization of coal. K. J. Nelson. 2,534,051, Dec. 12.
Flywheel rotating tool. F. Brugmann. 2,533,762, Dec. 12.
Focusing device. J. P. Quam. 2,533,688, Dec. 12.
Focusing device, Magnetic. J. P. Quam. 2,533,687, Dec. 12.
Focusing device, Magnetic. J. P. Quam. 2,533,689, Dec. 12.
Folding display. N. Burr. 2,533,874, Dec. 12.
Folding plastic book cover. W. R. Kutik, Jr. 2,533,590, Dec. 12.
Formation of concrete pipes, Method of and apparatus for the. N. E. Gowing. 2,533,579, Dec. 12.
Formation of glass film on silicon steel by strip annealing. V. W. Carpenter. 2,533,351, Dec. 12.
Forming a strongly adherent electrodeposit. W. B. Stoddard, Jr. 2,533,533, Dec. 12.
Forming one-piece paper containers. J. Norden. 2,534,052, Dec. 12.
Frame: *See*—
Hinged picture frame. Sign display frame.
Frame for trampolines, beds, or the like, Foldable. L. V. Griswold. 2,534,019, Dec. 12.
Frame structure for vehicles. L. Lynes. 2,533,485, Dec. 12.
Fuel oil tank intake box. A. G. Caruolo. 2,533,766, Dec. 12.
Fuels, Production of aviation or motor. D. A. Howes and T. Tait. 2,534,025, Dec. 12.
Furnace: *See*—
Air and water heating furnace.
Furnace construction. R. C. Wright. 2,533,658, Dec. 12.
Furnace for hot-air and water space heating with domestic water heater. W. I. Riu. 2,533,508, Dec. 12.
Furnace having scroll type heat exchanger, Forced air. F. R. Higley. 2,533,458, Dec. 12.
Furnace with jet cooling. R. L. Hasche. 2,533,457, Dec. 12.
Game, Combination. R. Urban. 2,533,904, Dec. 12.
Garment finishing apparatus. R. W. Brenner and J. R. Petre. 2,533,761, Dec. 12.
Garment hanger cover. M. G. Wordingham. 2,533,864, Dec. 12.
Garment rack. A. M. Mendle. 2,533,324, Dec. 12.
Gauge: *See*—
Wire gauge.
Gauge for shirt collars. J. W. Starbuck. 2,533,295, Dec. 12.
Gauge for tractors, Fuel. L. N. and J. N. McGrath. 2,533,490, Dec. 12.
Gelatin melter. J. O. Scherer. 2,533,964, Dec. 12.
Generator: *See*—
Ultra high frequency wave generator.
Glass interlayer, Laminated. F. T. Buckley and G. R. Sido. 2,534,102, Dec. 12.
Glass vessels, Making sealed. J. G. Kronouer, E. M. H. Lips, and F. Prakke. 2,533,589, Dec. 12.
Golf bag. M. M. Zapoleon. 2,534,096, Dec. 12.
Governor, Rotational speed. T. W. Dwelle. 2,533,564, Dec. 12.
Governor, Speed-responsive. G. F. Drake, W. J. Whitehead, and H. C. Plummer. 2,533,231, Dec. 12.
Grinding wheels, Manufacturing vitrified. W. L. Howe. 2,534,127, Dec. 12.
Ground clamp. M. D. Reddock. 2,533,897, Dec. 12.
Guard for grain drills, Dirt. W. A. Hyland. 2,533,374, Dec. 12.
Gyroscopic sextant. J. B. Peterson. 2,533,686, Dec. 12.
Gyrovertical slaving system. F. D. Braddon. 2,533,217, Dec. 12.

Hair curler. R. T. Clifton. 2,533,434, Dec. 12.
Hammer. H. H. Talboys and H. E. Erickson. 2,533,975, Dec. 12.
Hammer, Gas. S. B. Maurer and H. P. Ebert. 2,533,487, Dec. 12.
Hammer, Precision. A. A. Bamberger. 2,533,988, Dec. 12.
Handbag having double compartment with individual closures and independently accessible bottle pockets, Utility. F. P. Syracuse. 2,533,850, Dec. 12.
Handle: *See*—
Fishing rod handle.
Handle for soldering irons and the like, Split. L. P. Young. 2,533,749, Dec. 12.
Handling of uranium hexafluoride in vessels of glass and silica. A. V. Grosse. 2,533,316, Dec. 12.
Hanger: *See*—
Flowerpot hanger. Pants hanger.
Hangers for use in processing photographic prints. J. H. De Lacy. 2,533,604, Dec. 12.
Harmonic analyser, High-frequency. M. El Shishini and M. A. H. El-Said. 2,533,566, Dec. 12.
Heat-resistant steel alloy. B. A. Zikmund. 2,534,190, Dec. 12.
Heat-treatment of cold rolled silicon steel strip. W. Morrill, C. G. Dunn, and R. Ward. 2,534,141, Dec. 12.
Heater: *See*—
Immersion electric heater. Water heater.
Heater. J. C. M. Duff. 2,533,881, Dec. 12.
Heater apparatus, Pebble. L. J. Weber. 2,534,089, Dec. 12.
Heater construction, including door draft and closure means. S. P. Locke. 2,533,674, Dec. 12.
Heater system. W. A. Marshall, Jr. 2,533,486, Dec. 12.
Heating and cooling system. T. S. Skillman. 2,533,407, Dec. 12.
Heating and ventilating system. L. A. Rodert. 2,533,509, Dec. 12.
Heating apparatus for heating ends of elongated workpieces in a continuous process. F. O. Hess, F. Maud, and E. F. Stoertz. 2,534,021, Dec. 12.
Heating chamber, Pebble. L. J. Weber and S. P. Robinson. 2,534,090, Dec. 12.
Heating device and combustion process. R. J. Waller. 2,533,647, Dec. 12.
Heating system, Electrical. R. S. Tice. 2,533,409, Dec. 12.
Herbicidal compositions. C. L. Arnold. 2,534,099, Dec. 12.
Heterocyclicthiol resins. P. D. Caesar and A. N. Sachanen. 2,533,764, Dec. 12.
High-gain amplifier tube. R. Adler and J. G. Prentiss. 2,533,750, Dec. 12.
Hinge structure. H. J. Reiter. 2,533,626, Dec. 12.
Hinged picture frame. G. M. Versosa. 2,533,978, Dec. 12.
Hitch, Quick detachable. W. H. Silver and R. E. Cox. 2,533,521, Dec. 12.
Hitch, Tractor mower. R. B. Hitchcock. 2,533,804, Dec. 12.
Hog feeder. E. Uhrenholdt. 2,533,538, Dec. 12.
Holder: *See*—
Flag holder. Live bait holder.
Floating holder. Paintbrush holder.
Key holder.
Holder and cover therefor, Paintbrush. J. Comfort. 2,533,355, Dec. 12.
Holder device for stereoscopic slides, Triple slide. F. W. Brock. 2,533,347, Dec. 12.
Holder for microobjectives. H. Heine. 2,533,371, Dec. 12.
Hose reel. D. A. Clark. 2,533,432, Dec. 12.
Humidifying system for internal-combustion engines. J. A. Dunham. 2,533,438, Dec. 12.
Hydraulic control apparatus. J. A. Zinn, Jr. and O. Wennberg. 2,533,705, Dec. 12.
Hydraulic damping mechanism. H. W. Davis and W. A. Johns. 2,533,226, Dec. 12.
Hydraulic follow-up system. W. H. Newell. 2,533,306, Dec. 12.
Hydraulic mechanism. E. F. Jirsa and C. W. Bopp. 2,533,466, Dec. 12.
Hydraulic planetary transmission. L. L. Chiville, Jr. 2,534,104, Dec. 12.
Hydrocarbon copolymers and use thereof as lube oil additive. D. W. Young. 2,534,095, Dec. 12.
Hydrocarbon feed distributor for catalytic apparatus. C. S. Reed. 2,534,209, Dec. 12.
Hydrocarbon synthesis. R. C. Gunness. 2,533,666, Dec. 12.
Hydrocyanic acid, Producing. W. Coopey. 2,534,000, Dec. 12.
Hydrogen, Producing. S. E. Hybinette and F. C. Cary. 2,533,937, Dec. 12.
Hydrogen peroxide by the partial oxidation of hydrocarbons. C. R. Harris. 2,533,581, Dec. 12.
Immersion electric heater. E. M. Justiz. 2,533,469, Dec. 12.
Impact nut runner. G. C. Wilhide, J. N. Baker, and F. L. Holford. 2,533,703, Dec. 12.
Implement, Detachable tractor mounted. C. W. Walz and R. D. Grift. 2,533,542, Dec. 12.
Implement, Pruning. O. R. Rowe and W. J. Stolp. 2,533,962, Dec. 12.
Indicating device. M. J. Groenenberg. 2,533,791, Dec. 12.
Indicator: *See*—
Inventory indicator. Water level indicator.
Movable magnifying lens indicator.
Injection system for magnetic induction accelerators, Improved. R. Wideröe. 2,533,859, Dec. 12.
Instrument, Circumcision. H. A. Hinckley and R. C. Hawkins. 2,533,373, Dec. 12.
Instrument, Cross pointer flight. F. A. Jenks. 2,533,262, Dec. 12.
Instrument, Electrical musical. N. Langer. 2,533,821, Dec. 12.
Instrument, Electronic musical. G. F. Illsley. 2,533,461, Dec. 12.
Instrument for conducting vision tests in industrial occupations, Telebinocular. G. M. Mast and W. K. Gannett. 2,533,385, Dec. 12.
Instrument for indicating the operating time of vehicles and other devices. G. Thornton-Norris. 2,533,638, Dec. 12.
Insulator, Electric. E. H. Pratt and R. C. Christie. 2,533,621, Dec. 12.
Integrating mechanism. L. A. Biehler. 2,533,710, Dec. 12.
Interlocking device for preventing improper closing of a circuit breaker, Pneumatic. J. F. Chipman. 2,533,559, Dec. 12.
Intermediate-pulverizing and mixing machine for chocolate masses. E. Cavalieri. 2,533,875, Dec. 12.
Internal-combustion engine. E. Glun. 2,533,575, Dec. 12.
Internal-combustion engine ported sealing-ring positioning means. W. Kasten. 2,534,029, Dec. 12.
Interpolymers comprising acrylonitrile and N-substituted maleamic acids, Ternary. J. R. Caldwell. 2,533,204, Dec. 12.
Intravenous needle immobilizer. W. J. Rousseau and M. Oliver. 2,533,961, Dec. 12.
Inventory indicator. A. Geib. 2,533,883, Dec. 12.
Iron: *See*—
Steam electric pressing iron.
Isopropyl alcohol from propylene, Manufacture of. J. Howlett and W. L. Wood. 2,533,808, Dec. 12.
Jelly compositions, Pectin. C. W. Kaufman. 2,533,471, Dec. 12.
Joint: *See*—
Rotatable steam joint.
Joint assembly. M. P. Graham. 2,533,928, Dec. 12.
Jolting device for molding machines, Shockless. H. J. Rothschild. 2,533,959, Dec. 12.
Journal bearing lubricator. G. H. Massy. 2,534,045, Dec. 12.
Journal box. A. O. Buckius and D. Willison. 2,533,917, Dec. 12.
Juice extraction apparatus and method. G. Cahill. 2,533,350, Dec. 12.
Junction box assembly. F. A. Lasserre. 2,533,673, Dec. 12.
Keeper. F. B. Payne. 2,533,396, Dec. 12.
Ketoesters, Production of. E. C. Ladd. 2,533,944, Dec. 12.
Key holder. K. A. Valentine. 2,534,151, Dec. 12.
Keying circuit. T. R. Burnight and J. F. Clark, Jr. 2,533,219, Dec. 12.
Knife, Grafting. H. E. Wolfe. 2,533,657, Dec. 12.
Knitting machine. A. S. Staff. 2,534,184, Dec. 12.
Knockdown table. C. P. Molla. 2,533,831, Dec. 12.
Ladder and storage means therefor, Fire escape. A. A. McCall. 2,534,202, Dec. 12.
Ladder, Combination step and wall. C. J. Miller. 2,533,391, Dec. 12.
Ladder, Venetian blind. J. L. Hunter and T. Martin. 2,533,584, Dec. 12.
Lagging for use on belt pulleys. W. H. Harrison. 2,533,456, Dec. 12.
Lamp guard, Hinged. C. L. Jones. 2,533,812, Dec. 12.
Lantern, Portable battery operated fluorescent hand. J. A. Bar. 2,533,910, Dec. 12.
Latch: *See*—
Door latch.
Latch means. G. E. Dath. 2,533,360, Dec. 12.
Latch to prevent rebound in camera shutter leaves, Impact. C. C. Fuerst. 2,533,450, Dec. 12.
Lathe tool. E. B. Whigam. 2,533,254, Dec. 12.
Lawn mower cutting reel. J. Remonte. 2,533,691, Dec. 12.
Lawn sprinkler. P. Grelson. 2,534,016, Dec. 12.
Lawn sprinkler, Permanent underground installation. F. E. Socall. 2,533,969, Dec. 12.
Layout equipment, Three-dimensional. K. Kondor. 2,533,588, Dec. 12.
Leather-like material. M. C. Teague. 2,533,976, Dec. 12.
Lens, High-tension electrostatic electron. P. Grivet. 2,533,790, Dec. 12.
Life belt having a compressed gas inflation cylinder. F. R. Fisher. 2,533,446, Dec. 12.
Lifter for planers, Tool. C. Morey and H. A. Dingeldein. 2,533,680, Dec. 12.
Lifting and lowering appliance. I. A. Weaver. 2,533,980, Dec. 12.
Light: *See*—
Portable signal light. Purse light.
Light arrangement for ventilated space, Germicidal. G. K. Raider. 2,533,690, Dec. 12.
Lighter, Pyrophoric. B. Sandor. 2,534,068, Dec. 12.
Lighting system, Christmas tree. F. Cohen. 2,533,222, Dec. 12.

Lighting system, Fluorescent. J. Kaufman. 2,533,977, Dec. 12.
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Limited movement clutch. E. C. Swilik. 2,533,848, Dec. 12.
Linear condensation polymers from bis-diazo-diketo alkanes, Preparing. H. J. Hagemeyer, Jr. 2,533,455, Dec. 12.
Link, Fusible. A. C. Rowley. 2,534,065, Dec. 12.
Liquid level and temperature control system. W. A. Ray. 2,533,624, Dec. 12.
Lithium chloride from spodumene, Production of. E. T. Hayes, F. P. Williams, and W. M. Sternberg. 2,533,246, Dec. 12.
Live bait holder. H. Miller. 2,533,390, Dec. 12.
Load handling apparatus for vehicles. G. H. Pride. 2,534,057, Dec. 12.
Loader, Adjustable elevation grain. J. R. Howe. 2,533,261, Dec. 12.
Loading and unloading device for vehicle bodies. T. A., C. C., and R. T. Wyatt. 2,534,156, Dec. 12.
Lock: *See*—
Spring nut lock.
Lock. C. A. Hiligren. 2,533,582, Dec. 12.
Lock washer. C. A. Brooks. 2,533,916, Dec. 12.
Locomotive with coal-fired gas turbine, Generating electric. J. I. Yellott. 2,533,866, Dec. 12.
Loud-speaker, Multiple section diaphragm. F. A. Lindley. 2,534,040, Dec. 12.
Lubricant composition, Nonfoaming. J. S. Wallace. 2,533,700, Dec. 12.
Lubricant coolant solution. T. T. Rodgers. 2,533,328, Dec. 12.
Lubricating grease containing paraffin wax. R. O'Halloran. 2,534,053, Dec. 12.
Lubricator: *See*—
Journal bearing lubricator.
Lug fastening means for electrical shields. K. Emde. 2,533,779, Dec. 12.
Machine and process for separating liquid from sludge. W. V. Paine. 2,533,395, Dec. 12.
Machine for assembling sheet form material. E. H. Schmidt and K. F. Cossaboon. 2,534,070, Dec. 12.
Machine for beveling notches in coulter disks. F. W. Barbknecht. 2,533,756, Dec. 12.
Machine for cutting handholds in wooden box ends. H. J. Goff. 2,534,167, Dec. 12.
Machine for cutting tapered ingots. R. Chelborg and L. W. Young. 2,533,311, Dec. 12.
Machine for harvesting peanuts. J. O. Turner. 2,533,537, Dec. 12.
Machine for manufacturing twisted core chenille. H. G. Lemoine. 2,534,039, Dec. 12.
Machine for molding building blocks of concrete or like cementitious material. R. Leggat. 2,533,479, Dec. 12.
Machine for molding concrete brick. E. De Luca. 2,533,721, Dec. 12.
Machine tool control mechanism. J. B. Armitage and O. W. Barker. 2,533,753, Dec. 12.
Magnetic storage comparing and control system. D. R. Putt. 2,533,326, Dec. 12.
Magnets, Manufacture of permanent. C. Marquaire. 2,534,178, Dec. 12.
Making chains. I. O. Miller, W. N. Sutliff, D. U. Shaffer, and K. E. Waggener. 2,533,325, Dec. 12.
Mandrel for blind riveting. A. W. Forman and W. R. Thirdborough. 2,533,448, Dec. 12.
Manifold construction. J. T. W. Moseley. 2,533,604, Dec. 12.
Manufacturing minutely orificed articles. T. M. Nolan and S. Gasper. 2,533,609, Dec. 12.
Marble shooter. J. Yates. 2,533,659, Dec. 12.
Mask, Photographic brightness correction. P. K. Glasoe and D. Dean. 2,533,452, Dec. 12.
Mat, Self-cleaning door. T. Fallowfield, Jr. 2,533,781, Dec. 12.
Material distributing receptacle. G. K. Viall and R. F. Lindow. 2,534,211, Dec. 12.
Meat holding device. P. Betten and M. Lehrhaupt, 2,533,308, Dec. 12.
Meat tendering machine. W. W. Gierke, O. E. Brownsey, and V. F. Frye. 2,534,166, Dec. 12.
Mechanism for moving a rod or other member in a straight line. W. Nelson. 2,533,393, Dec. 12.
Mechanism for opening and closing doors. J. M. Bunch. 2,533,423, Dec. 12.
Metal bellows, Making. W. C. Hasselhorn. 2,534,123, Dec. 12.
Metal deactivators. J. A. Chenicek. 2,533,205, Dec. 12.
Metal strip cutter. W. E. Northcutt. 2,533,812, Dec. 12.
Metatarsal pad. H. G. McCormick. 2,533,601, Dec. 12.
Meter: *See*—
Consistency meter. Detonation meter.
Metering device, Coffee. K. E. Fraser. 2,533,449, Dec. 12.
Microphone, Hearing aid. W. A. Schwalm. 2,533,516, Dec. 12.
Mill: *See*—
Tumbling mill.
Mill of the rolling mortar type, Pulverizing. R. L. Newcomb and C. J. Harrah. 2,533,684, Dec. 12.
Mining machine. F. L. Fulke. 2,533,572, Dec. 12.
Mirror for motor vehicles, Rearview. C. G. Koonter. 2,533,475, Dec. 12.
Mirror for vehicles, Front view. D. L. Lahr and A. Schwitalla. 2,534,135, Dec. 12.
Mirror supporting means. F. W. Zink. 2,533,867, Dec. 12.
Mixer having adjustable discharge height, Transit concrete. B. F. Devine and L. G. Hilkemeier. 2,533,362, Dec. 12.
Modulation protective arrangement. J. R. Sherwood and K. L. Klippel. 2,534,073, Dec. 12.
Modulator, Line pulse. I. Sager. 2,533,285, Dec. 12.
Moistening mechanism for duplicating machines. H. Gerlach. 2,533,574, Dec. 12.
Mold: *See*—
Confection mold.
Mold having interlocking segments, Vulcanizing. A. L. Wallace. 2,533,335, Dec. 12.
Molding apparatus, Building block. J. F. Moran. 2,533,603, Dec. 12.
Molding unit, Injection. H. F. Jurgeleit. 2,533,468, Dec. 12.
Molds, Making refractory. F. O. Johnson. 2,533,585, Dec. 12.
Morpholine mahogany sulfonates as a rust inhibitor for petroleum oils. F. M. Watkins. 2,533,300, Dec. 12.
Motor speed control system. L. A. Kille. 2,533,473, Dec. 12.
Motor utilized as suction storage tank for windshield wipers, Secondary accessory. J. R. Oishei. 2,533,613, Dec. 12.
Mounting: *See*—
Adjustable basketball hoop mounting. Bathtub mounting.
Angularly adjustable bracket arm mounting. Bearing mounting.
Umbrella cover mounting.
Mounting for dial test indicators. R. J. Maus. 2,533,949, Dec. 12.
Mounting for steerable wheels, Individual. T. B. McCormick. 2,533,950, Dec. 12.
Mounting snap action switch blades. P. C. Jacobs, Jr. 2,533,671, Dec. 12.
Movable magnifying lens indicator. M. Rosenberg. 2,533,628, Dec. 12.
Mower and drive therefor, Wheeled. E. Bobard. 2,533,759, Dec. 12.
Multicolor printing on flocked area of fabric. J. and M. Aronstein and J. A. Solomon. 2,533,985, Dec. 12.
Multiplying apparatus. W. A. Steward. 2,533,408, Dec. 12.
Multiunit electron discharge tube. C. R. Stevens. 2,534,077, Dec. 12.
Multiunit vacuum tube. J. J. Muller. 2,533,280, Dec. 12.
Navigational data integrator. H. Wilkie. 2,533,256, Dec. 12.
Needle punch machine. R. H. Warmack. 2,533,540, Dec. 12.
Negatives, Making half-tone. F. E. Wattier. 2,533,650, Net, Life saving. W. B. Shimp. 2,533,520, Dec. 12.
Nipple punch, Baby bottle. P. N. Slick. 2,534,076, Dec. 12.
Nonwoven material, Making. L. G. Egger. 2,534,113, Dec. 12.
Nozzle, Vacuum cleaner. E. A. Wright. 2,534,189, Dec. 12.
Obtaining large grain size in silicon steel. E. W. Oppenheimer and J. E. Lucas. 2,533,394, Dec. 12.
Opening means for cigarette wrappers. T. A. Will. 2,533,255, Dec. 12.
Operating mechanism for moving a rod or other member axially. W. Nelson. 2,533,392, Dec. 12.
Organochlorosilanes and their production. L. A. Goldblatt and D. M. Oldroyd. 2,533,240, Dec. 12.
Organ-substituted polysiloxanes, Preparation of. R. O. Sauer. 2,534,149, Dec. 12.
Oscillating rack actuated drive. A. Horbath. 2,533,807, Dec. 12.
Oxonol dyes, Preparing. S. G. Dent, Jr. and L. G. S. Brooker. 2,533,206, Dec. 12.
Oxonol filter and antihalation dyes, Unsymmetrical. G. H. Keyes and L. G. S. Brooker. 2,533,472, Dec. 12.
Oxyacetylene installation for welding, cutting, or the like. R. R. L. Geffroy. 2,533,729, Dec. 12.
Package and producing same. O. M. Byerly. 2,533,554, Dec. 12.
Pad: *See*—
Metatarsal pad. Vibration isolator pad.
Pad, particularly useful in permanent waving of human hair, Chemical heating. M. J. Root and R. E. Reed. 2,533,958, Dec. 12.
Paintbox. S. Pinanski. 2,533,618, Dec. 12.
Paintbrush holder. J. Comfort. 2,533,354, Dec. 12.
Paintbrush with scraper blade. E. J. Ranft. 2,533,838, Dec. 12.
Paints, Antifouling. D. A. Skinner and T. F. Doumani. 2,533,744, Dec. 12.
Pants hanger. G. P. Sellers. 2,533,634, Dec. 12.
Panty. N. Hochbaum. 2,534,024, Dec. 12.
Paper cup dispenser. S. N. Hope. 2,534,169, Dec. 12.
Paper punch. J. A. Yerkes. 2,534,094, Dec. 12.
Para xylene, Production of. R. G. Dressler. 2,533,232, Dec. 12.
Pen-bed, Baby's automobile traveling. R. G. Hall. 2,533,792, Dec. 12.
Pencil with screw feed, Mechanically operated. G. H. Weinberger. 2,534,091, Dec. 12.
Pentaerythritol, Preparation of. J. Cryer, J. C. Owens, and R. J. F. Lee. 2,534,191, Dec. 12.
Photographic apparatus. D. P. Keefe. 2,534,132, Dec. 12.

Photographic emulsions containing color couplers and amide coupler solvents. G. W. Sawdey and P. W. Vittum. 2,533,514, Dec. 12.
Photographic emulsions sensitized with supersensitizing combinations of acid carbocyanine dyes and styryl bases. B. H. Carroll and J. Spence. 2,533,426, Dec. 12.
Photographic process, Two-bath direct positive. C. E. Ives. 2,533,463, Dec. 12.
Picker. J. E. Moe. 2,534,203, Dec. 12.
Picker stick check strap. F. B. Wakefield. 2,533,646, Dec. 12.
Pigments and molding powders comprising polyvinyl acetal resins dyed with vat dyes. L. A. Lantz, A. Schofield, and E. Spinner. 2,534,136, Dec. 12.
Pillow, Beauty. Y. B. Snyder. 2,533,526, Dec. 12.
Pipe: *See*—
Stoker smoking pipe.
Pipe fittings, Method of and machine for making. J. H. Taylor. 2,534,185, Dec. 12.
Pipe layout tool. O. P. Parsons. 2,533,500, Dec. 12.
Pipe support. T. L. E. Haug. 2,533,370, Dec. 12.
Pitch propeller, Variable. J. E. Anderson. 2,533,415, Dec. 12.
Pitch propeller, Variable. M. E. Cushman. 2,533,358, Dec. 12.
Pitch propeller, Variable. B. W. King. 2,533,321, Dec. 12.
Plastic refill wax paper dispenser. C. B. Russell. 2,533,841, Dec. 12.
Plat, Heat distributing. D. Marfield. 2,533,383, Dec. 12.
Plating nonmetallic surfaces. D. C. Gresham. 2,533,454, Dec. 12.
Plow and screen, Rotary. H. W. Hamlett. 2,533,793, Dec. 12.
Plow, Rotary. E. L. Rose. 2,533,693, Dec. 12.
Plug: *See*—
Battery nonspill vent plug. Expansible tube plug.
Pneumatic valve. W. E. Newman. 2,533,608, Dec. 12.
Pole guard. D. C. Hubbard. 2,534,170, Dec. 12.
Polyethylene terephthalate, Production of. E. F. Izard. 2,534,028, Dec. 12.
Polyfunctional compounds, Preparation of. W. F. Gresham and C. E. Schweitzer. 2,534,018, Dec. 12.
Polymeric compositions and preparing the same. A. Cresswell. 2,533,224, Dec. 12.
Polymerization of allyl chloride and using the product as a valve lubricant. P. H. Carnell. 2,533,425, Dec. 12.
Polymerization of styrene employing phthalimide as catalyst. F. H. Snyder. 2,533,525, Dec. 12.
Polmerization of tetrafluoroethylene with dibasic acid peroxide catalysts. M. M. Renfrew. 2,534,058, Dec. 12.
Polymerizing styrene in contact with benzoyl peroxide and di(tertiary butyl) peroxide. S. E. Glick. 2,534,120, Dec. 12.
Polymers and their preparation, Granular. D. E. Strain and H. Peterson. 2,534,079, Dec. 12.
Polystyrene plastic foam. F. Rosenthal. 2,533,629, Dec. 12.
Polyvinyl partial acetal composition and making the same. F. Groff. 2,533,314, Dec. 12.
Portable signal light. W. A. Feek. 2,533,235, Dec. 12.
Portable structure. F. Neuhaus. 2,533,683, Dec. 12.
Portable vibrator-type tool. G. N. Levesque. 2,533,946, Dec. 12.
Poultry eviscerating tool. L. Finney. 2,533,445, Dec. 12.
Powder dispensing. G. M. Skinner. 2,533,331, Dec. 12.
Power-driven machine for automatically delivering and driving a fastener, Manually applied. E. S. Moore. 2,534,140, Dec. 12.
Power transmission including hydraulically operated power transmission stop, Opposed hydraulic ram. C. W. Mott. 2,533,833, Dec. 12.
Power transmission, Intermittently engaged clutch variable. G. W. Willard. 2,534,093, Dec. 12.
Power unit for shifting gears of marine engines. G. W. Crowell. 2,534,002, Dec. 12.
Press: *See*—
Pressure indicating arbor press. Tennis racket press.
Pressure cooker. L. E. Finch. 2,534,164, Dec. 12.
Pressure indicating arbor press. H. H. Moore and C. L. Johnson. 2,533,279, Dec. 12.
Pressure reducer and air strainer. F. H. Anderson. 2,533,907, Dec. 12.
Pressure water system. F. A. Carpenter. 2,533,428, Dec. 12.
Preventing clogging of drain troughs. W. R. Schmitz, Jr. 2,533,402, Dec. 12.
Prevention of rust. F. M. Watkins. 2,533,301–04, Dec. 12.
Printer, Automatic contact. R. P. Leavitt and W. M. Mott. 2,533,481, Dec. 12.
Printer, Continuous control. H. L. Fitch. 2,533,447, Dec. 12.
Printing press brake. R. E. Sleight. 2,534,075, Dec. 12.
Printing textile fabrics with a dye paste comprising a styrene-maleic anhydride copolymer cross-linked with divinyl benzene. R. B. Seymour. 2,533,635, Dec. 12.
Process for inhibiting fretting corrosion. T. G. Roehner and C. D. Thayer. 2,533,840, Dec. 12.
Producing copper sulfate. G. E. Harike. 2,533,245, Dec. 12.
Producing vesicular molded products from burnt clays, shales, or similar argillaceous material. A. Ryner. 2,533,899, Dec. 12.
Projection apparatus. J. A. Van den Broek. 2,534,084, Dec. 12.
Projector. J. A. Van den Broek. 2,534,083, Dec. 12.
Projector having cam operated intermittent film feed and shutter, Motion-picture. F. T. Coffey, Sr. 2,533,560, Dec. 12.
Prop for conveyers, Swingable. E. H. Ensinger. 2,533,882, Dec. 12.
Propeller, Dual rotation. G. W. Brady and C. W. Chillson, 2,533,346, Dec. 12.
Propeller, Variable. C. Fumagalli. 2,533,785, Dec. 12.
Propulsion means for boats. J. Napoli. 2,533,681, Dec. 12.
Propulsion means for rowboats. F. W. Raicy. 2,534,180, Dec. 12.
Protection of phosphors from attack by alkali vapors. W. J. Hushley and W. M. Siebert. 2,533,809, Dec. 12.
Protective device for gas turbines. D. Q. Marshall. 2,534,138, Dec. 12.
Protein artificial filamentary products, Production of insolubilized. R. H. K. Thomson. 2,533,297, Dec. 12.
Pulse radio communication system. G. J. Lehmann. 2,533,269, Dec. 12.
Pump: *See*—
Fluid pump.
Rotary gear-type metering pump.
Pump. J. N. Hinckley. 2,533,252, Dec. 12.
Pump especially intended for moving liquids, Axial cylinder. L. Widmer. 2,534,153, Dec. 12.
Pumping viscous petroleum. A. F. Clark and A. Shapiro. 2,533,878, Dec. 12.
Purification process. S. A. Ballard and B. P. Geyer. 2,533,754, Dec. 12.
Purse light. W. H. Peterson and B. E. Jones. 2,534,179, Dec. 12.
Putting inverters out of and into function. U. Lamm. 2,534,036, Dec. 12.
Quick detachable battery connector. V. E. Cacciotti. 2,533,763, Dec. 12.
Rack: *See*—
Adjustable hay feed rack. Garment rack.
Filter rack.
Rack for supporting flat metal sheets in electroplating operations. J. W. Jasper. 2,533,464, Dec. 12.
Radiant and air heating system, Combined. E. A. Russell and F. B. Rutherford. 2,534,148, Dec. 12.
Radio altimeter. L. Couillard. 2,533,769, Dec. 12.
Radio device, Portable. D. H. Mitchell. 2,533,493, Dec. 12.
Radio distance measuring system. D. Blitz. 2,533,871, Dec. 12.
Radio distance measuring system. D. H. Robinson and T. E. Dunn. 2,533,898, Dec. 12.
Radio receiving system. G. R. P. Marié. 2,533,599, Dec. 12.
Radio signal detector. D. H. Andrews. 2,533,908, Dec. 12.
Radio time tuning device. A. Chikan. 2,533,877, Dec. 12.
Radio training system for aircraft pilots. R. C. Dehmel. 2,533,361, Dec. 12.
Rail switch point lifting means. G. W. Gray and C. B. Wade. 2,533,929, Dec. 12.
Rake, Articulated power-operated hay. R. A. Barnes. 2,533,417, Dec. 12.
Ramp-carriage and locating means for vehicle lifting devices. I. A. Weaver. 2,533,981, Dec. 12.
Range finder, Acoustic. W. A. Munson. 2,533,499, Dec. 12.
Reaction of alkyl cyloparaffins with unsaturated fatty acid. A. J. Shmidl. 2,534,074, Dec. 12.
Receptacle: *See*—
Material distributing receptacle.
Receptacle and closure fastener therefor. W. H. Churchill. 2,534,105, Dec. 12.
Reclining chair. F. J. Luketa. 2,533,595, Dec. 12.
Recording and reproducing system, High-speed intelligence. F. W. Roberts. 2,534,060, Dec. 12.
Recovery of oxygenated compounds and hydrocarbons from mixtures thereof. R. F. Marschner. 2,533,675, Dec. 12.
Rectifier, Regulated. L. P. Cronvall and G. Winkler. 2,533,225, Dec. 12.
Reel: *See*—
Hose reel. Lawn mower cutting reel.
Reel for electrical cables. G. Alfano. 2,533,341, Dec. 12.
Refrigerant control system. H. J. Matteson. 2,533,606, Dec. 12.
Refrigeration unit, Mobile. H. C. Hopp. 2,533,583, Dec. 12.
Refrigerator and method, Food treating and storing. R. F. James. 2,533,732, Dec. 12.
Registering and metering system. C. S. Hazard. 2,533,319, Dec. 12.
Regulating system and peak limiter, Automatic. R. V. Howard. 2,533,253, Dec. 12.
Reinforcing polymeric butadiene synthetic rubber with lignosulfonate. J. R. Salvesen and W. C. Browning. 2,533,632, Dec. 12.
Relay, Three-phase bimetal thermal. G. Camilli. 2,534,103, Dec. 12.

Relay, Time delay. H. Rosenberg. 2,533,977, Dec. 12.
Relay, Time delay. H. Rosenberg. 2,533,978, Dec. 12.
Relay, Time delay. H. Rosenberg. 2,533,979, Dec. 12.
Relay, Time delay. H. Rosenberg. 2,533,980, Dec. 12.
Relay, Time delay. H. Rosenberg. 2,533,981, Dec. 12.
Relay, Time delay. H. Rosenberg.

Remote-control device. R. P. Dice and B. H. Keener. 2,534,110, Dec. 12.
Resistor. W. P. Wills. 2,533,656, Dec. 12.
Resolution of crude mother liquors obtained in manufacture of pentaerythritol. E. T. Mertz. 2,533,737, Dec. 12.
Resonant electrical arrangement. B. A. Bels. 2,533,912, Dec. 12.
Rheostat, Carbon resistor. A. Sharenow. 2,533,519, Dec. 12.
Ring: *See*—
Composite piston ring. Electronic counting ring.
Drapery ring. Ventilated lens ring.
Ring for ring spinning machines. G. H. Pimley. 2,533,503, Dec. 12.
Ring packing and making the same. E. J. Poltorak. 2,533,742, Dec. 12.
Road vehicle. C. R. Livermon. 2,533,271, Dec. 12.
Rocker-arm snap switch. F. C. Fuke. 2,533,571, Dec. 12.
Rod and cap and making same, Connecting. F. A. Lee and F. J. Shappell. 2,533,822, Dec. 12.
Roll crimping machine. H. C. Bryans. 2,533,993, Dec. 12.
Roller skate. A. E. Murray. 2,533,740, Dec. 12.
Roller skate construction. H. R. Miller. 2,533,277, Dec. 12.
Roofing. H. King. 2,533,378, Dec. 12.
Rotary gear-type metering pump. D. R. Hull, D. P. Phillips, and N. H. Tate. 2,533,320, Dec. 12.
Rotary hydraulic coupling. R. Zavarella. 2,533,544, Dec. 12.
Rotary knockout mechanism for pigcasting machines. L. A. Gionet. 2,533,576, Dec. 12.
Rotatable closure structure having yieldable locking means. C. A. Brooks. 2,533,915, Dec. 12.
Rotatable steam joint. J. Bodnar. 2,533,421, Dec. 12.
Roundabout, Undulating track occupant propelled. H. Hansen and C. F. Brown. 2,533,368, Dec. 12.
Safety control system for fuel burners. W. A. Ray. 2,533,625, Dec. 12.
Safety means for cotton harvesters. J. D. Rust. 2,533,030, Dec. 12.
Salts of 2:1-hydroxynaphthoic acid, Manufacture of. E. B. Higgins. 2,534,022, Dec. 12.
Sanding device. H. Pokras. 2,533,619, Dec. 12.
Sanitary container. A. Beauchemin. 2,533,757, Dec. 12.
Saw device, Two-blade reciprocating. K. W. Couse. 2,534,001, Dec. 12.
Scale, Pendulum. L. S. Williams. 2,533,862, Dec. 12.
Scraping machine having spring pressed supporting wheels, Meat block. J. Bongiorni. 2,534,101, Dec. 12.
Screen with baked enamel coating. F. J. Geyer. 2,533,788, Dec. 12.
Screw, Ash disposal. W. M. Schweickart and F. G. Julyan. 2,533,329, Dec. 12.
Seal for flanged pipes, Pressure. E. Anderson. 2,533,868, Dec. 12.
Seal for rotary pumps and the like, Fluid pressure. H. J. Sadler and E. E. Cook. 2,533,399, Dec. 12.
Sealing mechanism. C. Z. Monroe. 2,533,832, Dec. 12.
Seat: *See*—
Baby's automobile seat.
Seat construction, Spring. B. D. McIntyre. 2,534,047, Dec. 12.
Seat having spring mounting, Tractor. C. Gabel. 2,533,773, Dec. 12.
Secretarial reminder, Automatic. J. A. Albers. 2,533,751, Dec. 12.
Seismic detector. R. L. Henson, Jr. 2,533,249, Dec. 12.
Selective shaft positioning control. R. S. Pyle. 2,533,398, Dec. 12.
Selector apparatus for alarm signals. L. Chauveau. 2,533,765, Dec. 12.
Self-flaring pipe coupling. S. Guarnaschelli. 2,534,198, Dec. 12.
Self-locking wrench. J. S. Collison. 2,533,436, Dec. 12.
Separating isotopes, Method and apparatus for. G. Simmons, Jr. 2,533,966, Dec. 12.
Separator: *See*—
Egg yolk and white separator.
Separator. E. M. Van Dornick. 2,533,977, Dec. 12.
Servo mechanism. N. L. Cohen. 2,534,106, Dec. 12.
Setscrew, Self-locking. E. W. Weissert. 2,533,748, Dec. 12.
Sewing machine. G. Sauer. 2,533,400, Dec. 12.
Sewing-machine attachment. E. T. Johnson. 2,533,467, Dec. 12.
Shackle, Poultry. G. W. Johnson. 2,533,941, Dec. 12.
Shade, Deformable reflector, and lens assembly, Unitary. W. O. Langille. 2,534,037, Dec. 12.
Sheet, Crib or the like. A. N. Spanel, F. W. Andrews, and H. A. Owen. 2,533,971, Dec. 12.
Sheet wrapping material and making same, Coated, nonfibrous regenerated cellulose. A. F. Chapman. 2,533,557, Dec. 12.
Shield, Collimating. R. D. Watt and W. N. Watson. 2,533,701, Dec. 12.
Shingle, Composition. H. W. Greider and W. V. Leibrook. 2,533,364, Dec. 12.
Ship's log. E. S. Cole. 2,533,998, Dec. 12.
Shoe and making the same. J. J. Walsh. 2,533,337, Dec. 12.
Shoe last. H. T. Michals and O. N. Eisendrath. 2,534,048, Dec. 12.
Shoes, Making slip-lasted. J. J. Walsh. 2,533,336, Dec. 12.
Shutter for attachment to motion-picture cameras, Fade-out. A. G. Bak. 2,533,909, Dec. 12.
Sign display frame. W. A. Eckhardt. 2,533,778, Dec. 12.
Signal converter for multisignal transmission systems. J. F. Brinster and J. Larsen. 2,533,552, Dec. 12.
Signal transmitting station, Variable. C. E. Beach. 2,533,344, Dec. 12.
Signaling device for double track railway systems, Safety. S. L. Conrad. 2,533,768, Dec. 12.
Silver halide developer compositions containing polyoxyalkylene ethers of hexitol ring dehydration products. R. K. Blake. 2,533,990, Dec. 12.
Single-frequency carrier current control system. D. R. Price and A. Grayson. 2,534,144, Dec. 12.
Single-leaf vehicle spring. F. T. Rowland and M. B. Hammond. 2,533,511, Dec. 12.
Ski binding, Safety. A. B. Lanz. 2,534,038, Dec. 12.
Ski pole, Extensible. H. A. Jensen. 2,533,733, Dec. 12.
Slag and producing it, Granulated. C. W. Schott. 2,533,633, Dec. 12.
Sleeve for mechanical pencils, Variable lead grip. M. E. Savoie. 2,533,513, Dec. 12.
Slicer, Vegetable. C. O. Sipe. 2,533,843, Dec. 12.
Slicing machine with swinging knife with stacking device. C. Klingens. 2,534,172, Dec. 12.
Slide changing device. C. B. Estes. 2,533,441, Dec. 12.
Slitting machine, Fabric. R. J. Clarkson. 2,533,996, Dec. 12.
Smoke treatment and control for smoke houses. S. L. Gershel. 2,533,926, Dec. 12.
Snap action electric switch. W. Sharp. 2,533,743, Dec. 12.
Snap fit interlocking checker. W. S. Peterson. 2,534,055, Dec. 12.
Socket, Electrical. C. W. Heath. 2,533,933, Dec. 12.
Socket, Fluorescent light. W. L. Kelman. 2,533,734, Dec. 12.
Sofa-bed with forward turning back. A. Lorenz. 2,534,175, Dec. 12.
Soft seat and bed, Combined. A. Lorenz. 2,534,176, Dec. 12.
Soft seat and bed, Combined. A. Lorenz and H. Nock. 2,534,177, Dec. 12.
Sound reproducing device. S. Zuerker. 2,534,157, Dec. 12.
Speed controlled coupling. G. E. Bange. 2,533,755, Dec. 12.
Spike, Railroad. C. L. Sharp. 2,533,901, Dec. 12.
Spoon, Electric. B. and R. Lipnicki. 2,533,947, Dec. 12.
Spout for water outlets, Drinking. R. G. Shoemaker. 2,533,636, Dec. 12.
Spout structure for liquid containers, Flexible pouring. L. J. Wells. 2,533,305, Dec. 12.
Spray gun. D. J. Peeps. 2,533,953, Dec. 12.
Spreader, Fertilizer. E. L. Masters. 2,533,386, Dec. 12.
Spring: *See*—
Single-leaf vehicle spring.
Spring nut lock. L. Lachatre. 2,534,035, Dec. 12.
Sprinkler head and mounting therefor. A. C. Rowley. 2,534,066, Dec. 12.
Starting block. C. J. Brouwer and I. J. Drake. 2,534,159, Dec. 12.
Station selection apparatus for Loran receivers. G. D. Hulst, Jr. 2,533,887, Dec. 12.
Steam electric pressing iron. C. M. Chapin. 2,533,995, Dec. 12.
Steering mechanism, Trailer. G. A. Burns. 2,533,553, Dec. 12.
Stitching mechanism, Multiple needle. V. J. Sigoda. 2,533,292, Dec. 12.
Stoker smoking pipe. T. Robertson. 2,533,956, Dec. 12.
Stoker system, including fuel and air feed controls. W. M. Schweickart and F. G. Julyan. 2,533,330, Dec. 12.
Stone setting tool. W. F. Bayer. 2,533,870, Dec. 12.
Stool, Horizontally swingable. J. J. Donohoe and E. A. Glusser. 2,533,363, Dec. 12.
Stop mechanism for spinning frames. M. Carrette. 2,533,310, Dec. 12.
Stove, Double-acting electric. D. Kossovitch. 2,533,672, Dec. 12.
Strap fastening means. M. J. McAneny. 2,533,275, Dec. 12.
Stripping multilayer film, Method and apparatus for. J. G. Capstaff. 2,533,424, Dec. 12.
Subsoiler. C. L. Cook and A. E. Young. 2,533,435, Dec. 12.
Succinic acid, Production of. O. L. Polly. 2,533,620, Dec. 12.
Suction box. J. W. Stewart. 2,533,697, Dec. 12.
Sugar cane cleaning method and apparatus. F. T. Crawford. 2,533,357, Dec. 12.
Sulfonating polystyrene. M. Baer. 2,533,211, Dec. 12.
Sulfonation of polystyrene. M. Baer. 2,533,210, Dec. 12.
Sulfur, Manufacture of insoluble. E. T. Ross and C. B. Wilde. 2,534,063, Dec. 12.
Supercharger control. R. J. Coar. 2,533,714, Dec. 12.
Superregenerative receiver. T. M. Ferrill, Jr., and B. F. Spencer. 2,533,237, Dec. 12.
Supersensitization of meso-aryl carbocyanine dyes. B. H. Carroll. 2,533,427, Dec. 12.
Supersonic inspection device. R. B. De Lano, Jr. and E. M. Williams. 2,534,006, Dec. 12.

Support: *See*—
Adjustable article support. Bust support.
Bracket and channel circle gutter support. Fire hose support. Pipe support.
Support and sign, Mailbox. W. L. Enghauser. 2,534,163, Dec. 12.
Support clamp. F. Szabo. 2,533,974, Dec. 12.
Support for radio speakers, Magnet. D. G. Munson. 2,533,498, Dec. 12.
Support for umbrellas, shoes, and the like, Collapsible. D. Eisenberg. 2,533,725, Dec. 12.
Support shield for hangers. H. A. Tomarin. 2,534,081, Dec. 12.
Switch: *See*—
Rocker-arm snap switch.
Snap action electric switch.
Switch device, Ultra high frequency ionic discharge. A. L. Samuel. 2,533,512, Dec. 12.
Switchgear with adjustable panel, Enclosed. B. Volgovskoy. 2,533,645, Dec. 12.
Switch operating mechanism with positive kickoff. W. L. Dietrich. 2,534,007, Dec. 12.
Switch with flexible lead deformed by torsion, Electric. C. R. Peter. 2,533,397, Dec. 12.
Switching system, Tandem. R. C. Avery. 2,533,342, Dec. 12.
System for testing hearing. B. M. Harrison. 2,533,667, Dec. 12.
Table: *See*—
Chiropractic portable table. Knockdown table.
Table for furniture, Adjustable reading and writing. L. L. Anthes. 2,533,416, Dec. 12.
Table leg attaching means. J. Flicker. 2,533,313, Dec. 12.
Tank and the like, Acid storage. P. J. Weber, Jr. 2,534,188, Dec. 12.
Tank for airplanes and similar applications. G. Chausson. 2,533,431, Dec. 12.
Tape control device. W. J. Hanson. 2,533,317, Dec. 12.
Tapping machine. A. S. Ginsburg. 2,533,451, Dec. 12.
Tea cutting and feeding mechanism. L. F. Blackwell. 2,533,550, Dec. 12.
Telephone answering apparatus. W. C. Edwards. 2,533,234, Dec. 12.
Telephone systems involving prepayment telephone lines, Automatic. F. R. Lamberty, A. S. Martins, and W. T. Wichman. 2,533,476, Dec. 12.
Telescopic sight lens cover. A. P. Rogers. 2,534,061, Dec. 12.
Temperature compensating means for lens mounts. C. M. Lee and G. L. Barringer. 2,533,478, Dec. 12.
Temperature stabilization. O. H. Schmitt. 2,533,288, Dec. 12.
Tenderizer, Meat. R. Sybenga. 2,533,849, Dec. 12.
Tennis racket press. J. H. Weingarten. 2,533,338, Dec. 12.
Tension means for wire stitching machines. A. F. Fischer. 2,533,782, Dec. 12.
Terminal, Double-ended. G. F. Bahr. 2,533,987, Dec. 12.
Testing apparatus, Compartment. D. H. Annin. 2,534,158, Dec. 12.
Testing apparatus, Fog resistance. A. J. Berger. 2,533,214, Dec. 12.
Therapeutic apparatus. H. I. Poor. 2,533,504, Dec. 12.
Therapeutic device, Portable. N. H. Pitts. 2,533,955, Dec. 12.
Thermal retarder. C. M. Osterheld. 2,533,614, Dec. 12.
Thermistor system. O. H. Schmitt. 2,533,287, Dec. 12.
Thermostatic control device for gas-burning appliances. V. Weber and R. F. Garner. 2,533,982, Dec. 12.
Thermostatic element, Bimetallic. V. E. Matulaitis and P. M. Byam. 2,533,274, Dec. 12.
Thio derivatives of alpha alkylidene cyanoacetic esters, Certain. H. D. Edwards. 2,534,112, Dec. 12.
Threadless tube coupling. S. Guarnaschelli. 2,534,199, Dec. 12.
Throttle control, Automatic. L. Soble. 2,533,967–8, Dec. 12.
Throttle operating mechanism. J. H. Patterson. 2,533,836, Dec. 12.
Tilting device, Venetian blind. D. S. Powers. 2,533,505, Dec. 12.
Timer. E. C. Hartwig. 2,533,318, Dec. 12.
Timer, Clock. H. C. Wintle. 2,534,155, Dec. 12.
Timer, Electronic sequence. E. C. Hartwig. 2,533,369, Dec. 12.
Timing device. V. Trad. 2,533,410, Dec. 12.
Toggle actuated slidable jaw wrench. A. A. Koskinen. 2,533,817, Dec. 12.
Tongs. H. R. Hansen, Jr. 2,533,795, Dec. 12.
Tongs for forehearth skimmer blocks and the like. F. N. Dailey. 2,533,770, Dec. 12.
Tool: *See*—
Flywheel rotating tool. Poultry eviscerating tool.
Lathe tool. Stone setting tool.
Pipe layout tool. Weather strip installation tool.
Portable vibrator-type tool.
Tool. S. A. Temple. 2,533,851, Dec. 12.
Tool for corner tape, Finishing. R. G. Ames. 2,533,209, Dec. 12.
Toothbrush having powder pickup grooves. J. E. Bennett. 2,533,345, Dec. 12.
Toothpaste ejector. A. D. Robinson. 2,533,839, Dec. 12.
Top burner electric range automatic cooking. L. T. Akeley. 2,534,097, Dec. 12.
Torque equalizing means for aircraft landing gear brakes. C. B. V. Neilson and R. G. Hoare. 2,533,607, Dec. 12.
Torque limiting device. W. C. Starkey. 2,533,973, Dec. 12.
Torque winding means for slitting machines, Constant. S. E. Amos and D. C. Jeffrey, Jr. 2,533,307, Dec. 12.
Towing device. R. F. Symonds and M. Magnusson. 2,533,972, Dec. 12.
Toy bathtub. T. E. Tellefsen. 2,533,534, Dec. 12.
Toy, Cord actuated spinning. C. M. Herzog. 2,533,935, Dec. 12.
Toy swing. C. E. Liesner. 2,533,482, Dec. 12.
Toy telephone. F. A. Richards and C. R. Arliss. 2,533,327, Dec. 12.
Toy tractor having improved track guiding means. E. D. Cayce. 2,533,556, Dec. 12.
Track for hanging doors, conveyers and the like. R. G. Ferris. 2,534,195, Dec. 12.
Tracking apparatus. J. H. Lancor, Jr. 2,533,267, Dec. 12.
Tractor control mechanism. A. C. Boock and D. W. Erskine. 2,533,872, Dec. 12.
Tractor hitch. C. E. De Witt. 2,534,109, Dec. 12.
Trainer for aircraft personnel. J. J. Lukacs and W. B. Strickler. 2,533,484, Dec. 12.
Transducer carriage feed and control mechanism therefor. C. W. Dann and R. M. Somers. 2,533,359, Dec. 12.
Transformer for coaxial lines, Impedance. A. W. Gent and P. J. Wallis. 2,533,239, Dec. 12.
Transitory electroresponsive switching control. J. A. Favre. 2,534,115, Dec. 12.
Transmission mechanism, Controlled differential. E. F. Norelius. 2,533,611, Dec. 12.
Trap: *See*—
Animal trap.
Trap for minnows and small fish, Baitless. C. D. Palmer. 2,533,617, Dec. 12.
Tray, Anterior dental. V. V. Ushanoff. 2,533,855, Dec. 12.
Tray, Beautician's. W. Nussbaum. 2,533,893, Dec. 12.
Tray, Cup-carrying. L. W. Cochrane. 2,533,997, Dec. 12.
Treating photographic layers containing color formers with metal salt hardening agents. O. W. Murray. 2,534,050, Dec. 12.
Treatment of polymeric materials. D. E. Strain. 2,534,078, Dec. 12.
Treatment of uranium chlorides. A. V. Grosse. 2,533,315, Dec. 12.
Trigger mechanism. A. C. Pierce. 2,533,283, Dec. 12.
Truck, Case carrying hand. H. A. Chapman and E. J. Livingston. 2,533,352, Dec. 12.
Truck, Fire. J. H. De Frees. 2,533,772, Dec. 12.
Truck, Harrow. R. Colley. 2,533,999, Dec. 12.
Truck, Railway. J. C. Travilla, Jr. 2,533,639, Dec. 12.
Trunk selecting system for radio telephone stations, Automatic. E. H. B. Bartelink. 2,533,662, Dec. 12.
Tube: *See*—
Cathode-ray tube. Multiunit electron discharge tube.
Electrooptical dark trace picture tube. Multiunit vacuum tube.
High-gain amplifier tube.
Tube arrangement, Modulatable frequency oscillation. A. M. Skellett. 2,533,406, Dec. 12.
Tufting machine. J. Blumfield. 2,533,420, Dec. 12.
Tumbling mill. W. L. Keefer. 2,533,265, Dec. 12.
Tuner and inductor for use therewith, Wide band calibrated. F. N. Jacob, E. R. Stout, and L. Miller. 2,533,810, Dec. 12.
Tuning means for magnetrons. E. C. Okress. 2,533,741, Dec. 12.
Tuning mechanism. J. E. Laschenski. 2,533,477, Dec. 12.
Turnbuckle or the like. H. I. Podell. 2,533,894, Dec. 12.
Tweezers. W. R. Heilig. 2,533,801, Dec. 12.
2,5-diamino-1-thiadiazine-3,4 resins. H. A. Walter. 2,534,087, Dec. 12.
2,4-dichlorophenoxyacetic acid compositions. E. E. Gilbert. 2,533,884, Dec. 12.
2-thenylamines. H. D. Hartough and S. L. Meisel. 2,533,798, Dec. 12.
2[2-N-benzyl-N-(β-chloroethyl) aminoethyl] pyridine and the acid salts thereof. W. S. Gump and E. J. Nikawitz. 2,533,243, Dec. 12.
Ultra high frequency wave generator. L. Apker and J. Kahnke. 2,534,098, Dec. 12.
Umbrella, Beach. S. Kober. 2,533,322, Dec. 12.
Umbrella cover mounting. B. A. Haydu. 2,533,799, Dec. 12.
Urethanes containing the lysergic acid ring system and making same. A. Stoll, A. Hofmann, and F. Troxler. 2,533,698, Dec. 12.
Vacuum cleaner with superimposed attachment carrying receptacle, Tank type. E. A. Hamala. 2,534,122, Dec. 12.
Vacuum condenser. R. H. Chamberlin and H. E. Sorg. 2,533,713, Dec. 12.
Valve: *See*—
Pneumatic valve.
Valve. E. C. Weiffenbach. 2,533,652, Dec. 12.
Valve action mechanism for wind instruments. F. N. Meyers. 2,533,389, Dec. 12.
Valve assembly. C. P. Dahl. 2,533,921, Dec. 12.

Valve assembly. E. C. Hartley. 2,533,931, Dec. 12.
Washing machine. C. F. Emmert and W. H. Stouder.

Valve assembly. E. C. Hartley. 2,533,931, Dec. 12.
Valve construction for gauging tapes. P. C. Jurs. 2,533,264, Dec. 12.
Valve construction for proportioning devices. G. A. Mau. 2,534,046, Dec. 12.
Valve control mechanism. J. B. McMahon and T. A. Abbott. 2,533,491, Dec. 12.
Valve control mechanism, Compressor. W. A. Eaton. 2,533,777, Dec. 12.
Valve with leak detector, Exhaust. J. M. Campbell. 2,533,712, Dec. 12.
Vapor Protection, Flammable. W. J. Willenborg. 2,533,339, Dec. 12.
Vaporizer. M. W. Hanks and A. B. Johnson. 2,533,794, Dec. 12.
Vaporizer type oil burner. S. C. Towar. 2,533,854, Dec. 12.
Vaporizing tray type oil burner. T. A. McCrimmon. 2,533,678, Dec. 12.
Vaporizing-type liquid fuel burner. P. Fournier. 2,533,783, Dec. 12.
Variable capacity condenser. A. E. Gersch. 2,533,730, Dec. 12.
Vault lowering device. C. A. Landon. 2,533,592. Dec. 12.
Vehicle: *See*—
Automobile vehicle. Road vehicle.
Vehicle bumper and adjustable pipe rack. C. E. Pauley. 2,533,837, Dec. 12.
Vehicle bumper guard and support structure for turn signal indicators or the like, Combined. J. G. Balmer, Jr. 2,533,212, Dec. 12.
Vehicle wheel. C. S. Ash. 2,533,707, Dec. 12.
Velocipede. C. R. Gedat, P. Schimmel, and S. L. Atkins. 2,533,728, Dec. 12.
Venetian blind. C. D. Walker. 2,533,298, Dec. 12.
Venetian blind mechanism. W. J. Stuber and J. J. Di Ienno. 2,534,080, Dec. 12.
Ventilated corrugated board container. N. F. De La Foret. 2,533,773, Dec. 12.
Ventilated lens ring. M. N. Anderson. 2,533,547, Dec. 12.
Ventilation and heat control system, Combined. T. J. Lehane and E. H. Burgess. 2,534,174, Dec. 12.
Vibrating apparatus. J. W. Bridges. 2,533,711, Dec. 12.
Vibration isolator pad. R. C. Lewis. 2,534,137, Dec. 12.
Vibrator, Electromagnetic. D. S. Schreiber. 2,533,695, Dec. 12.
Vibrator-exciting action. B. F. Miessner. 2,533,830, Dec. 12.
Viewer, Gem. R. A. Thienemann. 2,533,747, Dec. 12.
Voltage splitting circuit. J. W. Picking and W. J. Brown. 2,534,207, Dec. 12.
Wagon elevator throw-out mechanism. E. K. Karlsson. 2,533,814, Dec. 12.
Wardrobe having flexible walls and shelves, Collapsible and portable. A. P. Kitson. 2,533,333, Dec. 12.
Warning apparatus for motor vehicle operators. W. H. Scott. 2,533,518, Dec. 12.
Washer: *See*—
Lock washer.
Washing ingredient dispensing mechanism for washing apparatus. W. F. Gayring and J. Neuroth. 2,534,014, Dec. 12
Washing machine. C. F. Emmert and W. H. Stouder. 2,534,194, Dec. 12.
Waste disposal unit. A. M. Snider. 2,533,524, Dec. 12.
Water drive. F. W. Albaugh. 2,533,546, Dec. 12.
Water heater. C. M. Osterheld. 2,533,615, Dec. 12.
Water key for trombones and the like. F. N. Meyers. 2,533,388, Dec. 12.
Water level indicator. J. R. Gomersall. 2,533,578, Dec. 12.
Wave conversion system for transmitters and receivers. R. B. Dome. 2,534,111, Dec. 12.
Waxer and polisher, Floor. P. J. Acocella and D. Capaccione. 2,533,706, Dec. 12.
Wear take-up means for wheel brakes. G. C. Geyer. 2,533,927, Dec. 12.
Weather strip installation for windows. J. G. Sullivan and F. R. Smith. 2,533,847, Dec. 12.
Weather strip installation tool. F. Gruszecki. 2,533,367, Dec. 12.
Web feeding of textile materials. W. G. Heimus. 2,533,247, Dec. 12.
Web former and cutter for satchel bottom paper bags. C. V. Clark. 2,533,433, Dec. 12.
Web looping device for festoon type driers. F. E. Hurxthal. 2,534,026, Dec. 12.
Well activator. W. D. Dobbs. 2,533,563, Dec. 12.
Wheel: *See*—
Vehicle wheel.
Wheel and tooth therefor, Sprocket. W. J. Urban. 2,534,187, Dec. 12.
Wheel cylinder for hydraulic brakes. S. H. Sime. 2,533,902, Dec. 12.
Wheel for automotive vehicles, Relief. I. Barfus. 2,533,869, Dec. 12.
Wheel tooth and pallet contact means, Sprocket. W. J. Urban. 2,534,186, Dec. 12.
Wheelbarrow, Power-driven. L. D. Bell. 2,533,549, Dec. 12.
Wheeled attachment for boats. M. Raveau. 2,533,895, Dec. 12.
Wheeled golf club carrier. A. Warring. 2,533,541, Dec. 12.
Winding device, Shade roller. V. A. Hawkins. 2,534,020, Dec. 12.
Winding machine, Layer. L. R. Lorenz and R. Patterson. 2,533,382, Dec. 12.
Window cleaner. P. S. Vosbikian and T. S. Vosbikian. 2,534,086, Dec. 12.
Wind-up device for tubular material. H. Gerstein and R. Kagan. 2,534,015, Dec. 12.
Wing fold mechanism. J. D. Carpenter. 2,533,429, Dec. 12.
Wire gauge. A. G. Natzke. 2,533,606, Dec. 12.
Wire tensioning device. W. R. Hunt. 2,534,130, Dec. 12.
Wrench: *See*—
Self-locking wrench.
Toggle actuated slidable jaw wrench.
X-ray speculum. O. C. Hollstein. 2,534,126, Dec. 12.
Zerofzing mechanism. C. Herzstark. 2,533,372, Dec. 12.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 12, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

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Condition of Applications Under Examination at Close of Business Dec. 1, 1950

Total number of patent applications awaiting action, 124,356. Date of oldest new application, October 5, 1949; date of oldest amended application, October 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
*C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	12-29-49	12-29-49	2757
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-28-49	11-23-49	2045
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	3-21-50	3-10-50	1670
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	10-26-49	10-24-49	2177
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-3-50	11-2-49	1623
6. SURLE, H., Carbon Chemistry (part)	3-7-50	3-4-50	1843
7. GONSALVES, J. E., Optics; Photography (part)	5-24-50	5-15-50	1294
8. LEWIS, R. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	11-14-49	11-15-49	2503
9. BENSON, R. B., Pumps and Fans; Fluid Motors	11-25-49	11-18-49	1399
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	2-1-50	1-5-50	1399
11. BENHAM, E. V., Boots, Shoes, and Leggins; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	11-18-49	11-12-49	1560
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	2-3-50	1-19-50	1341
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	11-1-49	10-19-49	1963
14. MANIAN, JOSEPH C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	12-16-49	12-19-49	1297
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-20-50	3-31-50	1332
16. LOVEWELL, N. N., Television; Telephony	3-7-50	3-17-50	1077
17. LEIGHEY, R. A., Paper Manufacturers; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-7-49	12-14-49	2142
18. KURZ, J. A., Power Plants; Speed Responsive Devices	10-21-49	10-19-49	1693
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-19-49	10-25-49	1299
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-7-49	12-6-49	1031
21. MADER, R. C., Textiles; Package and Article Carriers	11-22-49	11-23-49	1857
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	11-14-49	11-17-49	1491
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-28-49	12-14-49	798
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	4-3-50	4-3-50	1599
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	2-25-50	2-27-50	1495
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-6-50	1-10-50	1353
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	1-17-50	1-16-50	2140
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-16-49	11-4-49	1572
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	1-30-50	2-8-50	1926
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	4-3-50	4-3-50	2147
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	3-21-50	2-16-50	2157
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	2-16-50	1-25-50	1549
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-10-50	1-24-50	2145
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	12-2-49	12-1-49	1670
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-3-50	1-5-50	1745
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	12-9-49	11-16-49	1673
37. REYNOLDS, E. R., (Acting), Electricity, Circuit Makers and Breakers	12-28-49	12-22-49	1043
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	4-19-50	3-6-50	1365
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	10-5-49	10-7-49	3029
40. DRUMMOND, E. J., Receptacles (part); Packages	2-2-50	1-7-50	2241
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	10-21-49	10-7-49	1641
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-26-50	1-11-50	2225
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	3-27-50	4-17-50	1081

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 124,356. Date of oldest new application, October 5, 1949; date of oldest amended application, October 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
44. HARVEY, L. P., Beds, Chairs, Seats	10-21-49	10-26-49	1825
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-22-49	12-10-49	1888
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	11-28-49	12-8-49	1378
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-24-50	12-15-49	1889
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	3-8-50	12-23-49	1129
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	11-21-49	11-29-49	2114
50. LEVIN, SAMUEL, Synthetic Resins	5-2-50	3-8-50	1692
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	1-23-50	11-9-49	1540
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	12-2-49	11-18-49	3200
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	2-23-50	1-17-50	1242
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	2-2-50	1-24-50	1562
55. WOOD, RICHARD, (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	3-7-50	3-7-50	1355
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	2-11-50	2-2-50	1739
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	4-4-50	4-3-50	1406
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	11-15-49	1489
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-1-50	3-3-50	1175
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	4-3-50	3-11-50	1140
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-28-49	12-20-49	1873
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	12-12-49	1-9-50	2463
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	3-20-50	3-22-50	1642
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	5-10-50	5-4-50	1684
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	3-7-50	3-7-50	1831
66. LISANN, L., Geometrical Instruments	12-30-49	10-6-49	1088
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	3-15-50	3-1-50	1434
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	3-2-50	2-15-50	1527
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	12-9-49	12-2-49	1966
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	12-9-49	10-6-49	2119
DESIGNS: BREHM, G. L.	1-19-50	5-17-50	3643

Total number of trade-mark applications awaiting action (including renewals and republications), 22,660. Date of oldest new application, Feb. 25, 1950; date of oldest amended application, Feb. 15, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	2-25-50	3-3-50	6549
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	3-20-50	3-7-50	4056
Renewals (All Classes)	9-29-50	11-1-50	294
Republications (All Classes)	10-10-50	11-1-50	288
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-1-50	3-3-50	5539
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	2-27-50	2-15-50	5934

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE WEIGEL

No. 5681. Decided June 30, 1950

[183 F.2d 88; 86 USPQ 355]

1. PATENTABILITY—PARTICULAR SUBJECT MATTER—PROCESS OF EXPRESSING OIL.

Certain claims to a process of expressing oil *Held* patentable over the cited reference since the applicant's process is novel and results in an improved product of great commercial importance.

APPEAL from the Patent Office. Serial No. 509,037.

REVERSED.

Hyde, Meyer, Baldwin & Doran (*George S. Baldwin* and *Thomas J. Doran* of counsel) for Weigel.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the Primary Examiner's rejection of claims numbered 2, 3, 7, 8, 9, and 11 of appellant's application for patent for a method of expressing oil from oil bearing proteinaceous material. No claim was allowed. Others (10 and 12) were disallowed but not appealed.

At its outset the specification recites:

> • • • While more particularly applicable to the treatment of many kinds of oil bearing proteinaceous materials, such as various nuts, seeds and the like, it will be more particularly described with reference to flaxseed and soy beans. Under some circumstances the invention also may be applicable for use in the removal of oil from proteinaceous materials of animal origin.

It does not seem to be questioned that all six appealed claims stand or fall together; that is, as stated in the brief of the Solicitor for the Patent Office, "there is no contention here that any one of the appealed claims has any limitation which differentiates it patentably from any other claim." Claim 2 was selected by the Board as representative, and we here reproduce it along with claim 7, upon which latter claims 8 and 9 are dependent. Claim 7 seems to be the broadest of the claims on appeal.

> 2. A process for treating oil bearing proteinaceous material of vegetable origin to express the liquid content therefrom, comprising heating said material for a period of at least 30 minutes at a temperature at least 10 degrees lower than the predetermined optimum oil-expressing temperature for the particular material, immediately thereafter subjecting said material for approximately ten minutes to a conditioning treatment to reduce and stabilize the moisture content, at a temperature higher than the first heating temperature but not higher than said optimum oil-expressing temperature, and, at the conclusion of said conditioning treatment, without substantial loss of time or temperature, subjecting the material to continuous expressing action at said optimum temperature, whereby the oil is expressed therefrom.

> 7. A process for treating oil bearing proteinaceous material of vegetable origin to remove oil therefrom, comprising collecting a mass of the material which at any time is in quantity of the order of more than twenty-five times the quantity then undergoing expression, continuously supplying additional material to the mass at an inlet and continuously releasing it therefrom at an outlet at substantially the rate of expression, subjecting the material as it advances in the mass from the inlet to the outlet to a heating treatment with gradual rise of temperature to a maximum value definitely lower than the predetermined optimum oil-expressing temperature for the particular material, then, without substantial loss of temperature or time, subjecting the released material in smaller quantity to a conditioning treatment for a period of shorter duration than the first heating treatment, to reduce and stabilize its moisture content at the optimum value for expressing with a gradual temperature rise to said optimum temperature, and finally, again without substantial loss of time or temperature, subjecting the material to continuous expressing action under said optimum conditions of temperature and moisture content.

All the appealed claims were rejected by the Primary Examiner, as recited in his official statement following the appeal to the Board, as lacking invention over a patent, 2,269,898, issued to Raymond T. Anderson January 13, 1942, upon an application filed August 21, 1939, the specification of which at its outset recites:

> This invention relates to the recovery of oil from oil-bearing materials, be they of animal or vegetable origin. More particularly, it is directed to a continuous method of treating and expressing oil-bearing material in order to produce a maximum yield of first quality oil with a minimum refining loss and a minimum percentage of oil in the expressed cake. While, as indicated, the invention is of broad general application and may be applied to the treatment of numerous oil-bearing materials, for purposes of the present description, it will be described in connection with the processing of cotton seed, inasmuch as cotton seed presents one particular problem which has been solved in a highly satisfactory manner by the practice of this invention.

All claims of the Anderson patent are apparatus claims, but the specification discloses process steps also.

A brief recitation of the development of the process defined in the involved claims may aid in understanding the issue. This is disclosed mainly in certain affidavits.

Spencer Kellogg and Sons, Inc., of Buffalo, New York, hereinafter referred to as Spencer Kellogg Company, during the time of this and prior proceedings, was engaged in the business of recovering oil from oil bearing seeds, nut meats and the like. In its employ, in the capacity of control superintendent, was Egbert Freyer, "Ph. D. in Chemistry from Johns Hopkins University," who is hereinafter referred to as Freyer. An elaborate affidavit by him is a part of the record.

Also in the employ of Spencer Kellogg Company, in the capacity of general superintendent, was Theodore C. Jewett, to whom we hereinafter refer as Jewett. His affidavit is of record.

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The V. D. Anderson Company, a corporation of the State of Ohio, to which was assigned the Anderson patent, the only reference cited in this case, and to which also is assigned the application before us, was engaged in the manufacture of machinery for use in expressing or recovering oil from seeds, nuts, etc. An affidavit of Raymond T. Anderson, the patentee, a vice president of The V. D. Anderson Company, is of record.

According to the affidavit of Freyer, dated June 28, 1945, the Spencer Kellogg Company had been engaged in recovering oil from seeds, nut meats, etc. for more than fifty years. He states that at the time he made the affidavit he had been continuously employed by the company for eight years, and states that during those eight years he had "become familiar with the art of oil recovery as aforesaid, including all ordinary and preferred practices, technique, and apparatus used in connection therewith." He further states:

During 1939, and continuing into 1940, the Spencer Kellogg Company conducted a number of experiments, under my supervision, for the purpose of increasing the efficiency of our oil recovery while maintaining or even improving the quality of the oil. Representatives of various manufacturing firms were consulted. Various processes and machines were put in experimental operation and the results noted.

It is further stated in the affidavit that among the representatives of the various manufacturing firms consulted The V. D. Anderson Company was contacted and that Frederick W. Weigel, applicant here, "came to the Spencer Kellogg plant in Buffalo to study the Spencer Kellogg requirements, install experimental apparatus, and make recommendations." In carrying on his operations Weigel at first used apparatus substantially identical with that shown in the patent to Anderson, the application for which was then pending, it having been filed August 21, 1939. The apparatus and process are described in Freyer's affidavit as follows:

• • • Briefly it comprises an operating assembly including a cooker, a conditioner, and one or more press elements, all in tandem in the order named. In the cooker the seed was subjected to a relatively high temperature, ten to thirty degrees above the desired oil expressing temperature, and under pressure above atmospheric for a relatively brief period of time, perhaps five or ten minutes, under vigorous agitation. The cooked seed was then advanced to a conditioner, where its moisture was reduced to the desired value, at a temperature below the cooking temperature, but not lower than the optimum oil expressing temperature. When the moisture reached the desired figure the seed was advanced to the press, and pressure applied thereto to recover the oil and the caked residue.

The affidavit then states:

I was not satisfied with the quality of the resulting oil, although, disregarding said oil quality, there was an overall improvement in efficiency from the standpoint of time saved, quantity of oil recovered, and reduction in total man hours per unit of output. With respect to oil quality, the oil had an undesirable color, and the cake was unsatisfactory. From the sales standpoint the color of the oil is an important factor, and customers are dissatisfied with, and often will not accept, an off color oil, especially when a better product is available. We accordingly informed Mr. Weigel that the Anderson apparatus shown in Exhibit A, attached hereto, and the method defined in the last preceding paragraph, would not satisfy our needs. Mr. Weigel continued to devote himself, at our Buffalo plant mainly, to the problem of producing an oil of good quality in a continuous process under efficient and economical conditions.

Towards the end of 1939 Mr. Weigel installed, for an experimental tryout, an entirely new oil recovery apparatus and process adapted for continuous use. They will be hereinafter identified as the Weigel apparatus and the Weigel process, respectively. I have examined a copy of the Weigel U. S. patent application, Serial No. 509,037, and find that it discloses an apparatus and process which I have just termed the Weigel apparatus and process.

Since no apparatus claims are involved in this proceeding it is unnecessary to attempt a description of the so-called "entirely new oil recovery apparatus." Of the process the affidavit states:

• • • The Weigel process required a preliminary cooking treatment for a relatively long period of time at a temperature substantially lower than the optimum oil expressing temperature for the material being pressed, which in that instance was flaxseed. The temperature was at least ten degrees lower than said optimum temperature, and the time of treatment was at least thirty minutes, and might be as much as sixty to ninety minutes. This was contrary to our pre-conceived ideas as to efficiency, but we found that by means of Mr. Weigel's apparatus there was no reduction in the quantity output of the press. The Weigel cooker was a container of relatively large capacity capable of holding on the average eight to ten times as much seed as the Anderson cooker previously described and shown in Exhibit A. Mr. Weigel's new assembly is shown herewith, in Exhibit B.

The Weigel cooker is vented to atmosphere so as to operate at atmospheric pressure. It has variable feed inlet and outlet means so as to control the amount of material in the cooker and maintain the quantity of material at a high enough figure to meet the requirements of the Weigel process.

Immediately after the long time treatment at a relatively low temperature, the seed is continuously transferred, without time loss, to a conditioner where its temperature is raised, but need not attain, and must not exceed, the optimum oil expressing temperature, and its moisture content is reduced to a desired amount, over a period considerably reduced as compared with the cooking period. From the conditioning apparatus the seed passes to the press, its temperature being brought up to that determined as optimum for the particular material, and here the oil is expelled by heavy pressure, as is familiar to those skilled in the art.

It is further said:

When the Weigel apparatus and process were placed in operation, an immediate improvement was noted both in the oil and the cake. The resulting oil was of excellent quality and color, and the production efficiency was increased in a number of important respects. The oil and cake were of such favorable color and quality that they could be sold readily, and were in my opinion as good as the best available, by any process. There was no doubt in my mind, at that time that our needs were satisfactorily solved by the Weigel apparatus and process.

The remainder of the affidavit relates to the matter of commercial success. It recites that up to the time the affidavit was made on June 28, 1945, the Spencer Kellogg Company had purchased from the V. D. Anderson Company sixty-five similar Weigel assemblies for use in various plants of the Spencer Kellogg Company throughout the United States at a cost in excess of seven hundred and fifty thousand dollars, and that orders for additional assemblies had been placed.

The affidavits of Jewett and Anderson are in the main merely corroborative of that of Freyer on the question of commercial success. In Anderson's affidavit, dated June 30, 1945, it is stated that in addition to the sixty-five units sold the Spencer Kellogg Company two hundred complete units had been sold to other customers at a total of more than two and one-quarter million dollars.

Because of the condition of the record in this case, we have taken the somewhat unusual course of quoting from the affidavits, particularly from that of Freyer, such descriptive matter as seems to have any relevancy here, without quoting from the decisions of the tribunals of the Patent Office.

The descriptive matter in Freyer's affidavit harmonizes with the disclosures in the reference (Anderson) patent and with those in the specification of the instant application and is practically the same as that given in the statement of the Examiner following the appeal to the Board and in the decision of the Board. The differences between the process disclosed, but not claimed as a process in the Anderson patent, and that claimed in the instant case is, we think, stated with sufficient clearness in the relevant excerpts which we have quoted from the Freyer affidavit and no further elaboration is deemed essential.

In his statement following the appeal to the Board the Primary Examiner's only reference made to the affidavits reads:

The affidavits indicate the commercial value of the process and here unclaimed apparatus. The question as to invention as distinguished from utility is not resolved by the evidence presented.

The Board of Appeals referred to the Freyer affidavit only and commented thereon as follows:

• • • It is indicated in an affidavit filed in this application that the oil produced according to the Anderson method had an undesirable color which failed to satisfy the affiant, Dr. Egbert Freyer, control superintendent, although the Anderson process resulted in an overall improvement in efficiency from the standpoint of time saved, quantity of oil recovered and reduction in total man hours per unit of output, *which seems to have been the object of the Anderson invention.* [Italics supplied.]

No comment was made by the Board on the question of commercial success.

Both the Examiner and the Board were of opinion that the process defined in the appealed claims "produces," as expressed by the Board, "no more than a difference in degree in the final result over the results produced by Anderson."

We feel constrained to disagree with this holding. The opinion was expressed by the Board, as quoted supra, that the apparent object of the Anderson invention was an overall improvement in efficiency from the standpoint of time saved, quantity of oil recovered, and the reduction in total man hours per unit of output. Nothing was said in the patent with respect to improvement in the color, or quality, of the oil and in the cake, which, according to the affidavit of Freyer, are factors of great importance—at least of great commercial importance. That the process of the application does differ from that disclosed by the reference is clear, we think, and the product which results from the process of the application is novel and useful. It did not result from the application of the Anderson process but from modifications of that process made by Weigel, seemingly after extensive experimentation. It seems to us that if the affidavits in this case are to be credited (particularly the elaborate one of Freyer and the corroborative one given by Jewett, who, so far as the record shows, have no financial interest in this case) the work of Weigel amounted to more than mere mechanical skill. We think the process is shown to have been novel and useful and that it is entitled to be classed as inventive. It may be added that, in our opinion, the showing of success made here, while standing alone would not be conclusive, is a factor entitled to some weight, and we have considered it in arriving at our conclusion.

The decision of the Board of Appeals is reversed as to all the appealed claims.

REVERSED.

U. S. Court of Customs and Patent Appeals

ALUMATONE CORPORATION *v.* VITA-VAR CORPORATION

No. 5683. Decided June 30, 1950

[183 F.2d 612; 86 USPQ 359]

1. TRADE-MARKS—REGISTRABILITY—RIGHT TO USE DISTINGUISHED.

Held that there is a clear difference between the right to use a trade-mark and the statutory right to register the same.

2. APPEAL TO THE U. S. COURT OF CUSTOMS AND PATENT APPEALS—SUBSEQUENT DECISION IN ANOTHER COURT—RES ADJUDICATA NOT APPLICABLE.

Since the court may not consider facts affecting the merits of the case, such as the decision in another cause of action, occurring after the appeal had been taken, *Held* that the doctrine of res adjudicata does not properly apply and the court will decide such appeals on their merits upon the alleged errors appearing in the reasons of appeal.

3. TRADE-MARKS—CONFUSION OF THE PUBLIC—"ALUMATONE" AND "ALUMIKOTE."

Because the last syllables of the marks are so distinctly different and the marks considered as a whole differ in appearance, sound and meaning, *Held* that the appellant's mark is entitled to registration and the decision of the Commissioner is accordingly reversed.

APPEAL from the Patent Office. Opposition No. 23,987.

REVERSED.

Hugh N. Orr for Alumatone Corporation.

S. Michael Ress for Vita-Var Corporation.

JACKSON, *J.*:

On February 16, 1944, appellant filed its application, Serial No. 474,264, to register its trade-mark "ALUMATONE," as applied to "Ready Mixed Aluminum Paint, Primers and Oil Paints," pursuant to the Trade-Mark Act of February 20, 1905. It was stated in the application that the trade-mark had been continuously used and applied to appellant's goods in its business since August 1, 1939.

The application was examined and passed for publication in compliance with section 6 of the act, and published in the OFFICIAL GAZETTE of January 9, 1945.

Subsequent to the said publication, on February 6, 1945, appellee, engaged in the business of manufacturing paints, varnishes, enamels, lacquers, water-proofing products, and kindred materials, filed a notice of opposition to the registration of appellant's mark. The notice of opposition relates only to the confusion-in-trade clause of section 5 of the act, as a statutory ground for barring the right of appellant to register its mark.

The notice of opposition was sustained and it was further adjudged by the Examiner of Interferences that appellant is not entitled to the registration sought. Upon appeal, the Commissioner of Patents affirmed the holding of the Examiner, 76 USPQ 266. From that decision this appeal was taken.

After the appeal had been duly perfected in this court and subsequent to the time when appellee could have elected further proceedings under the provisions of R. S. 4915, 35 U. S. C. 63, it filed a civil action against appellant in the District Court of the

United States for the Southern District of California, Central Division, entitled *Vita-Var Corp.* v. *Alumatone Corp.*, charging infringement of its registered mark, here involved, and praying for injunctive relief and an accounting for profits and damages. Appellant, answering, filed a counterclaim for a declaratory judgment holding appellee's registration to be invalid, or, if it were found to be valid, to be not infringed by appellant. It is said that most of the documentary evidence and exhibits appearing in the Patent Office proceedings herein were also placed in evidence at that trial.

The court, in its decision, 83 F. Supp. 214, 81 USPQ 330, ordered that the plaintiff take nothing by its complaint against the defendant; that the defendant take nothing by the counterclaim against the plaintiff; and that neither side recover costs.

The court in its decision on the evidence before it, concluded that there is dissimilarity in both sound and appearance of the marks of the parties; that both marks were coined words; and that no likelihood of confusion will arise from their concurrent use. The court noted that during the ten year period of concurrent use in the same territory no instances of confusion had been shown, nor was there any evidence of imitation of labels in any respect.

No appeal was taken by either party from the decision of the district court and, therefore, the judgment became final.

Appellant's brief herein was filed September 30, 1949, and prior to the filing date of the brief for appellee, February 27, 1950, a stipulation was entered into between counsel for the parties dated November 15, 1949, addressed to this court wherein it was stipulated and agreed, upon consent of this court and the tribunals of the Patent Office, that the said decision rendered in the District Court of the United States be accepted as binding and that it be followed by this court and the Patent Office in their further rulings and decisions, so that appellee's opposition would be withdrawn and appellant's trade-mark duly registered.

The tribunals of the Patent Office, of course, were without jurisdiction to consent to the stipulation for the reason that they had no power to do so after the notice of appeal by appellant was filed and it is obvious that this court cannot be found in its judgment by the terms of any such stipulation.

Counsel for appellant, in their brief, while they rely on all of the alleged errors set forth in their reasons of appeal, further contend that the judgment of the district court in California should result in the application of the rule of res judicata here, stating that "appellant's right to use its trade-mark has been affirmed by a decision which is final and conclusive as between the parties." That particular statement is correct. [1] However, there is a clear difference between the right to use a trade-mark and the statutory right to register the same. This court, in the case of *Van Camp Sea Food Co. (Inc.)* v. *The Alexander B. Stewart Organizations*, 18 CCPA (Patents) 1415, 50 F.2d 976, 9 USPQ 541, 412 O. G. 274, noted its jurisdiction and function with respect to those two different rights. It was stated that:

> Under the statute our duties in reviewing decisions of the Commissioner of Patents in trade-mark cases are quite different from those of a district or circuit court of appeals in actions such as have been hereinbefore referred to. We determine the correctness of the Commissioner's ruling on the *registrability* of the trade-mark. The district and circuit courts of appeals, in the above cases, were not concerned with this question. Our jurisdiction involves the question of the right to register, while the jurisdiction in the cases above referred to involves the right to use. *California Packing Corp.* v. *Tillman & Bendel*, 17 CCPA (Patents) 1048, 40 F.2d 108; *B. F. Goodrich Co.* v. *Hockmeyer*, 17 CCPA (Patents) 1068, 40 F.2d 99. [Italics quoted.]

In the case of *In re Isler*, 33 CCPA (Patents) 791, 152 F.2d 1002, 68 USPQ 198, 586 O. G. 4, we quoted from our decision in the case of *In re Langsner*, 31 CCPA (Patents) 785, 139 F.2d 512, 60 USPQ 186, 560 O. G. 6, as follows:

> Under the statute our jurisdiction is limited in cases of this character to a review of "the evidence produced before the Commissioner," and our revision must be "confined to the points set forth in the reasons of appeal" Section 4914 R. S. (U. S. C., title 35, sec. 62).
>
> Obviously we may not, in deciding this case, consider facts affecting its merits occurring after appellant's appeal was taken.

While the Isler and Langsner cases, supra, were ex parte in their character, nevertheless, in trade-mark opposition proceedings we are just as surely "confined to the points set forth in the reasons of appeal" as we are in other cases.

It appears to us that what was said in the case of *Meuer et al.* v. *Schellenger*, 26 CCPA (Patents) 1430, 104 F.2d 949, 42 USPQ 78, 509 O. G. 791, is apposite here.

> Since we are bound, in this jurisdiction, by the record as made before the tribunals of the Patent Office, we can give no consideration to the decision of the circuit court of appeals above cited, made on a different record.

[2] Obviously, we may not, in deciding this case, consider facts affecting its merits in a different cause of action brought after this appeal had been perfected. Therefore, we hold that the contention of counsel for appellant that the doctrine of res judicata should be applied is improper and that appeals such as this are here to be decided on their merits, as they always have been by this court, upon the alleged errors appearing in the reasons of appeal based on the record in the Patent Office.

Testimony was taken by both parties and a great number of paper exhibits, including folders, circular letters, catalogues, labels, invoices, and the like, were received in evidence. Briefs were filed and both parties were represented at the hearing before the Examiner of Interferences.

It appears that appellant employs its mark on several types of paint, including a ready-mixed, prepared aluminum paint which is dispensed in a single container ready for use by the consumer, and the paint of appellee comprises coloring matter and a carrier or liquid portion thereof placed in separate containers which must be mixed before being used.

For the reason that the paint products of the parties to which their marks are applied are competitive, we are of opinion that they possess the same descriptive properties, as was held by the tribunals of the Patent Office.

We also agree, as was held below, that the respective prefixes "ALUMA" and "ALUMI," while not words of speech, are clearly suggestive of the presence of aluminum in the paints sold by the parties, but those two expressions, in our opinion, constitute the only similarity in appearance and sound in the trade-marks. The marks, taken as a whole, do not look alike, nor sound alike, nor have they the same or similar meaning. Certainly, the last syllable "TONE" and "KOTE" are clearly and distinctly different in appearance, in sound, and in any meaning that may be attached to such syllables.

We think we may take judicial notice of the widespread use of terms indicating or suggesting the presence of aluminum, such as "ALUMA" and "ALUMI." Therefore, it necessarily follows that we must hold such and similar expressions to be in the public domain. [3] Because, in our judgment, the last syllables of the marks of the parties are so distinctly different, as hereinbefore noted, and the marks considered as a whole differ in appearance, sound and meaning, it necessarily follows that we reverse the decision of the Commissioner and hold that the mark of appellant is entitled to registration.

The Commissioner, in his opinion, cited the case of *Chatham Pharmaceuticals, Inc.* v. *Reserve Research Co.*, 34 CCPA (Patents) 886, 159 F.2d 869, 72 USPQ 507, 600 O. G. 661, as being pertinent to its holding here. The issue in that case arose between the trade-marks "ALUMINOID" and "ALOLOID." In affirming the decision of the tribunals of the Patent Office sustaining the opposition to the registration of the mark "ALUMINOID," we held that that mark was confusingly similar to the opposer's registered mark "ALOLOID," as applied to goods of the same descriptive properties.

While we have stated many times and reiterate here, that the citing of decisions in trade-mark cases is of little value in subsequent litigation, we would point out with respect to the respective marks in the Chatham case, supra, that their concurrent use on goods of the same descriptive properties would certainly and inevitably be likely to cause confusion in the minds of purchasers for the reason that the first syllable and the last syllable are identical, the only difference between the marks being in the sound and appearance of the second and third syllables of "ALUMINOID" and the second syllable of "ALOLOID." Those marks not only look alike to one who is not particularly interested in scrutinizing them, but they sound alike and if any meaning is to be attached to them, it must be that the products of the parties to which the marks are applied comprise aluminum in some form or another. Therefore, we are not in accord with the decision of the Commissioner in holding that the decision in the Chatham case, supra, is pertinent here.

A motion by appellee to correct diminution of the record was allowed subject to taxation of costs for the additional printed matter. For the reason that the only issue before us here is confusing similarity of the marks, as before set out, we find that the added material was not necessary nor did it aid us in our decision. The cost of the added material will, therefore, be taxed against appellee.

For the reasons hereinbefore set out the decision of the Commissioner of Patents is reversed.

REVERSED.

O'CONNELL, *J.* (specially concurring):

The issue hereinbefore considered and determined by this court was previously litigated and determined by the judgment of the District Court for the Southern District of California in an infringement suit, 83 F. Supp. 214, 81 USPQ 330.

The court has merely appropriated the findings of the infringement suit and substituted them here as a ground of reversal for the original findings of the Patent Office.

The court at the same time asserts, however, that the findings of the district court are out of the question and are not res judicata because the appellant has not included them in the reasons of appeal. The precise point was raised prior to the turn of the century and squarely overruled by the Court of Appeals for the District of Columbia from whom we subsequently derived our jurisdiction. *In re Drawbaugh*, 9 App. D. C. 219.

The Court of Customs and Patent Appeals has also promulgated the rule that it will apply the appropriate law to the facts in a given case on appeal, even though in so doing *it is necessary for the court to pass upon questions not considered by the tribunals of the Patent Office and not raised by the reasons of appeal. The Coschocton Glove Company* v. *Buckeye Glove Company*, 24 CCPA (Patents) 1338, 1343, 90 F.2d 660, 664, 34 USPQ 64, 67, 485 O. G. 758.

This court on the same point has also held that the stipulation of the parties is binding upon the court in the disposition of a pending appeal, although the subject matter of the stipulation was not and, as in the instant case, could not have been raised by the reasons of appeal. *Stanco Incorporated* v. *Waverly Petroleum Products Company*, 35 CCPA (Patents) 1195, 168 F.2d 319, 78 USPQ 22.

The court has by its decision here incidentally perpetuated the long but polite and famous controversy between this court and the distinguished courts of California relative to the binding effect of their respective judgments. In that series of repetitious litigation this court rendered the decision, among others, in the case of *Van Camp Sea Food Co. (Inc.)* v. *The Alexander B. Stewart Organizations*, 18 CCPA (Patents) 1415, 50 F.2d 976, 9 USPQ 541, 412 O. G. 274.

There this court in one paragraph of its opinion pointed to the limitations with which its power was circumscribed, and in another paragraph sought to overrule not only the judgment of the District Court of Southern California but also a similar judgment of the United States Circuit Court of Appeals. *Ex parte Westgate Sea Products Co.*, 84 USPQ 368; Derenberg's work on Trade-Mark Protection and Unfair Trading, 1936, pages 693–695.

The Commissioner of Patents when confronted with those conflicting decisions has considered himself governed by the decisions of the Court of Customs and Patent Appeals. *Ex parte Westgate Sea Products Co.*, supra. However, he has recently and properly rejected the judgment of this court in favor of a judgment of the Circuit Court of Appeals, Fourth Circuit, rendered in an infringement suit, which determined an identical issue of fact subsequently involved in an application for the registration of a trade-mark. *The Coca-Cola Company* v. *Santa Cola Company*, 85 USPQ 426.

Documents supported by the oral evidence of witnesses in a suit for infringement ordinarily delineate the issue in a stronger and clearer light than is produced merely by the papers themselves in an opposition proceeding.

In other words, findings of fact derived from what might be called conference table consideration are not as a rule clear cut and complete like the findings of fact based upon additional extrinsic evidence produced in open court by recourse to the market place and the consuming public. *Philadelphia Inquirer Co.* v. *Coe*, 133 F.2d 385, 552 O. G. 188.

There is however no basis for the obvious presumption asserted in the reversal of the tribunals of the Patent Office that the marks here in issue, "Alumatone" and "Alumikote," taken as a whole, do not look alike, nor sound alike, nor do they have the same or similar meaning. The tribunals of the Patent Office in the determination of the instant case relied upon the doctrine of this court expressed in the case of *Chatham Pharmaceuticals, Inc.* v. *Reserve Research Co.*, 34 CCPA (Patents) 886, 159 F.2d 869, 72 USPQ 507, 600 O. G. 661. The issue in that case involved the trade-marks "Aluminoid" and "Alolcid" and this court, the late Judge Hatfield writing the opinion, held that such marks were confusingly similar when used on goods of the same descriptive properties.

Some courts have been most liberal toward the applicant in construing the mandate of the statute relative to the registration of marks challenged as confusingly similar. Courts whose judges were subsequently appointed to the bench of the Supreme Court of the United States, however, have not hesitated in a proper case to extend the protection of the statute to the prior owner of a valid mark whose rights were invaded by the action of a newcomer. *Philadelphia Inquirer Co.* v. *Coe*, supra; *Smith* v. *Dental Products Co.*, 140 F.2d 140, certiorari denied, 322 U. S. 743.

Other fallacies in the position taken by the court in the disposition of this appeal are disclosed by the following opinion prepared and submitted months ago with the view that it would be adopted as the majority opinion.

This is an appeal from the decision of the Commissioner of Patents, 76 USPQ 266, affirming that of the Examiner of Interferences who sustained appellee's opposition to the registration of appellant's mark "Alumatone" on the ground that, upon the facts presented by the testimony of both parties in the form of depositions, registration of that mark would be likely to cause confusion in trade by reason of appellee's prior use and registration of its mark "Alumikote."

The goods with which the contested marks are used are practically identical and consist of aluminum paints. However, appellant's product is ready mixed; appellee's is not.

Appellant before taking this appeal filed a petition in the Patent Office for a rehearing contending broadly that the decision rendered by the Commissioner of Patents was not supported by the facts of record and again urging that the two marks are clearly different in sound, appearance, and meaning. The Commissioner denied the petition and fully set forth the reasons for such denial, 76 USPQ 617.

Thereafter and while this appeal was pending, appellee instituted an action against appellant in the District Court for the Southern District of California alleging infringement of the mark "Alumikote" and unfair competition in relation to it. Appellee there asked for injunctive relief, together with an accounting for profits and damages, on the basis that appellant's mark "Alumatone" was confusingly similar in sound, appearance, and meaning to appellee's mark "Alumikote." Appellant filed a counterclaim and demanded damages and costs. Appellant's counterclaim, among other things, was for a declaratory judgment that appellee's involved registration of "Alumikote" is invalid, or, if not invalid, not infringed.

The cause was tried, argued, and submitted. Thereafter the court adjudged that appellant's counterclaim therein be dismissed, that the parties to the action were entitled to no damages from each other, and that neither side was to recover costs. *Vita-Var Corp.* v. *Alumatone Corp.*, 83 F. Supp. 214, 81 USPQ 330.

The district court in rendering judgment against appellee, based its conclusions of law on specific findings of fact distinctly set forth in the officially reported opinion of that court and therein summarized as follows:

> The fundamental problem here arises from the alleged similarity between "Alumikote," the trade-mark of the plaintiff, and "Alumatone," the mark of the defendant.
> The evidence before me compels the conclusion that there is such dissimilarity in the sound and appearance ("oral and visual," to use the terms of the plaintiff), and in the meaning of the coined words and in the products to which they apply, that there is no likelihood that confusion will arise from their use. More, no instances of confusion are shown to have arisen during the ten-year period of concurrent use in the same territory. Nor is there any evidence of imitation of labels either as to design, color or other distinctive characteristics used to identify the products. * * * On the contrary, the defendant's labels carry their own distinctive designs originated by its printers in entire ignorance of the plaintiff's mark or label. * * *

Appellant alleges in its brief, and the statements have not been denied by appellee, that most of the documentary evidence and exhibits introduced in the opposition proceeding in the Patent Office were also placed in evidence at the trial, and that the evidence included also the testimony of witnesses given in open court. There is no reference in the decision of the district court, however, as to the concurring decisions of the Examiner and the Commissioner of Patents which had been previously rendered by them relative to the question of fact as to the confusing similarity of the marks decided adversely to appellant in the proceedings in the Patent Office.

Following the judgment by the district court, appellant and appellee entered into a stipulation whereby the respective parties mutually accepted the described judgment not only as binding upon them and conclusive as to their respective rights to the use of their trade-marks but also as controlling of the issue presented to this court. The stipulation, dated November 15, 1949, among other things, further provided:

> Now, therefore, it is hereby stipulated and agreed, this Honorable Court and the Patent Office tribunals consenting that the said decision of the District Court of the United States for the Southern District of California, Central Division be accepted as binding upon and that it be followed by this court and the Patent Office tribunals in their further rulings and decisions in these proceedings, *all to the end result that appellee's opposition be withdrawn and appellant's trade-mark, heretofore allowed and passed to publication by the Patent Office, be duly registered.* [Italics supplied.]

The foregoing stipulation was not accepted by the Patent Office which lost jurisdiction over the subject matter of the appeal pending its disposition by this court. *In re Allen, Jr.*, 28 CCPA (Patents) 792, 115 F.2d 936, 47 USPQ 471, 526 O. G. 576. The stipulation is not binding upon this court because of the public interest with reference to the registration of a trade-mark. *Schering & Glatz, Inc.* v. *Sharpe & Dohme, Inc.*, 32 CCPA (Patents) 827, 146 F.2d 1019, 64 USPQ 394, 572 O. G. 542.

Such a stipulation was accepted as binding upon this court in a pending appeal, however, where the trade-mark was abandoned and the application for its registration withdrawn after the appeal was taken here. *Stanco Inc.* v. *Waverly Petroleum Products Co.*, 35 CCPA (Patents) 1195, 168 F.2d 319, 78 USPQ 22, 611 O. G. 761.

Appellant contends that the question or fact here involved has been put in issue and directly determined by a court of competent jurisdiction; that the issue is therefore res judicata, and that this court is estopped from consideration of the appeal by the previous judgment of the district court, copy of which, together with the court's findings, is attached to the stipulation hereinbefore described.

A right, question or fact distinctly put in issue and directly determined by a court of competent jurisdiction as a ground of recovery cannot be disputed but must be taken as conclusively established in a subsequent suit between the same parties, even if the second suit is for a different cause of action, so long as the judgment in the first suit remains unmodified. *Southern Pacific Railroad* v. *United States*, 168 U. S. 1.

The Supreme Court in the cited case stated the rule hereinbefore described and gave the following explanatory reason therefor:

> This general rule is demanded by the very object for which civil courts have been established, which is to secure the peace and repose of society by the settlement of matters capable of judicial determination. Its enforcement is essential to the maintenance of social order; for, the aid of judicial tribunals would not be invoked for the vindication of rights of person and property, if, as between parties and their privies, conclusiveness did not attend the judgments of such tribunals in respect of all matters properly put in issue and actually determined by them.

The doctrine was also fully considered and determined by the Supreme Court in the cases of *Nesbit* v. *Riverside Independent District*, 144 U. S. 610, 618, and *Commissioner* v. *Sunnen*, 333 U. S. 591, 598. In the case last cited, the late Mr. Justice Murphy, having explained the recognized meaning and scope of res judicata, a doctrine judicial in origin, stated

> * * * Once a party has fought out a matter in litigation with the other party, he cannot later renew that duel. In this sense, res judicata, is usually and more accurately referred to as estoppel by judgment, or collateral estoppel. See Restatement of the Law of Judgments, §§ 68, 69, 70; Scott, "Collateral Estoppel by Judgment," 56 Harv. L. Rev. 1.
> * * * * * * * * * * * * That principle is designed to prevent repetitious lawsuits over matters which have once been decided and which have remained substantially static, factually and legally. * * *

The Supreme Court of the United States, the various Federal district courts, and circuit courts of appeal are courts of competent jurisdiction wherein the doctrine of res judicata, or estoppel by judgment, is enforced. Certain of those courts on occasion have refused, however, to abide by the decisions of the Court of Customs and Patent Appeals on the alleged ground that this court is an administrative tribunal but not a court of competent jurisdiction.

That question was distinctly put in issue and directly determined to the contrary in the recent case of *Chase* v. *Coe*, 74 App. D. C. 152, 122 F.2d 198, 49 USPQ 590, 531 O. G. 3. There counsel for the appellant urged the Court of Appeals for the District of Columbia to ignore the previous decision of the Court of Customs and Patent Appeals on the ground that our court is an administrative court whose decisions are binding upon the Commissioner of Patents but not upon other courts of competent jurisdiction in a subsequent proceeding under R. S. § 4915, 35 U. S. C. § 63.

The Court of Appeals for the District of Columbia in overruling that contention, in holding that the involved issue was res judicata, and in deciding that the appellant was therein estopped by the previous decision of the Court of Customs and Patent Appeals, Chief Justice Groner delivering the opinion for the court, stated:

> The ingenious argument of counsel in this respect is well done, but we are unable to find any legal or logical basis on which to sustain it. We think, as we have said in our former opinions, that the decision of the Court of Customs and Patent Appeals, after submission of the case to it without protest, is conclusive as to all the matters adjudicated by it. The anomalous procedure of a new appeal through an equity proceeding never was intended and, as we have already suggested, would defeat the purpose of the 1927 amendment to R. S. § 4915, which was to limit resort to that section to cases in which the option to go to the Court of Customs and Patent Appeals had not been availed of.

In this connection see also *Jensen* v. *Lorenz*, 68 App. D. C. 39, 92 F.2d 992, 34 USPQ 318, 482 O. G. 453, certiorari denied, 302 U. S. 751; *Hemphill* v. *Coe*, 74 App. D. C. 123, 121 F.2d 897, 527 O. G. 846, and *McBride* v. *Coe*, 50 F. Supp. 286, 58 USPQ 650, together with the numerous authorities therein cited and discussed.

The doctrine of res judicata, or estoppel by judgment, has been applied by the Court of Customs and

Patent Appeals in a second suit where the first judgment was rendered by this court. *In re McKee*, 25 CCPA (Patents) 1064, 96 F.2d 294, 37 USPQ 532, 496 O. G. 563; *Winkelmann* v. *Calvert*, 33 CCPA (Patents) 1206, 154 F.2d 1012, 69 USPQ 406, 592 O. G. 137.

This court has overruled the doctrine, however, where the previous judgment relied upon as a ground of recovery in the second suit was rendered by a Federal court other than our own. *Van Camp Sea Food Co., Inc.* v. *Westgate Sea Products Co.*, 18 CCPA (Patents) 1311, 48 F.2d 950, 9 USPQ 417, 411 O. G. 818; *Van Camp Sea Food Co. (Inc.)* v. *The Alexander B. Stewart Organizations*, 18 CCPA (Patents) 1415, 50 F.2d 976, 9 USPQ 541, 412 O. G. 274.

Notwithstanding the stipulation hereinbefore set forth, appellee, citing *Van Camp Sea Food Co. Inc.* v. *The Alexander B. Stewart Organizations*, supra, contends, amiably but vigorously, that while the judgment of the district court is entitled to great respect, such judgment is to be regarded here merely as persuasive, but by no means conclusive, and should be ignored.

In here seeking to have the court redetermine the precise question of fact previously determined by the district court of California, appellee contends, in detail, that the involved marks are confusingly similar in sound, appearance, and meaning and urges that the earlier and concurring decisions of the tribunals of the Patent Office holding that the marks are confusingly similar should be herein affirmed.

The case of *Van Camp Sea Food Co. Inc.* v. *The Alexander B. Stewart Organizations*, supra, upon which appellee relies, discloses that this court there rejected the doctrine of res judicata, or estoppel by judgment, reviewed certain findings of fact and the final judgment of the United States District Court for the Southern District of California, as well as the circuit court of appeals, and not only refused to be bound thereby but also reached a directly opposite result.

The basis for such action on the part of this court was not predicated upon the ground that this court and the Federal courts of California were not courts of competent jurisdiction, nor upon the ground that the question previously distinctly put in issue and directly determined by them was not substantially the same issue that was subsequently presented to this court for decision. Those two factors in both cases and in both courts were acknowledged to exist therein.

The basis for such action, as stated in the opinion of this court in the case relied upon here by appellee, was that in reviewing the decisions of the Commissioner of Patents in trade-mark cases "Our jurisdiction involves the question of the right to register," while the jurisdiction of such courts as the United States District Court and of the Circuit Court of Appeals for California under R. S. 4915 "involves the right to use." The long array of repetitious litigation with which the cited case of our court has been identified for approximately a quarter of a century, and which is still being carried on, was partially reviewed in the recent case of *Ex parte Westgate Sea Products Co.*, 84 USPQ 368. See also Derenberg's work on Trade-Mark Protection and Unfair Trading, 1936, pages 693–695.

The registration of a trade-mark confers only procedural advantages and does not enlarge the registrant's substantive rights. *Armstrong Co.* v. *Nu-Enamel Corp.*, 305 U. S. 315, 324, 498 O. G. 753. The foundation of the right to register is user; that is, the previous and continuous use of a valid trade-mark in commerce among the several States, or with foreign nations, or with Indian tribes. Section 2, Trade-Mark Act of 1905; *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, 545, 274 O. G. 613.

Moreover, Mr. Chief Justice Taft in the case of *Baldwin Co.* v. *Robertson*, 265 U. S. 168, 179, 327 O. G. 5, explicitly held, as far back as May 26, 1924, "that the assimilation of the practice in respect of the registration of trademarks to that in securing patents as enjoined by § 9 of the Trade-Mark Act makes § 4915, Rev. Stats., providing for a bill in equity to compel the Commissioner of Patents to issue a patent, applicable to a petition for the registration of a trade-mark when rejected by the Commissioner. *American Steel Foundries* v. *Robertson*, 262 U. S. 209; *Baldwin Co.* v. *Howard Co.*, 256 U. S. 35, 39; *Atkins & Co.* v. *Moore*, 212 U. S. 285, 291."

Appellee's argument in support of its position on the point in question is purely technical. Discriminatory distinctions with respect to matters of form which result in repetitious litigation are discouraged in law not only by the recognized rule of the Supreme Court hereinbefore described but also by the Trade-Mark Act of 1946, which specifically provides:

> Sec. 37. *In any action involving a registered mark the court may determine the right to registration*, order the cancellation of registrations, in whole or in part, restore canceled registrations, and otherwise rectify the register with respect to the registrations of any party to the action. *Decrees and orders* shall be certified by the court *to the Commissioner, who shall make appropriate entry upon the records of the Patent Office, and shall be controlled thereby.* [Italics supplied.]

The question of the right to register and the right to use, which may involve different causes of action, does not control the disposition of the case at bar where the facts supporting the opposition proceeding were substantially the same as the facts which supported the suit for infringement. See *Seven Up Co.* v. *Cheer Up Sales Co.*, 148 F.2d 909, 65 USPQ 237; *General Finance Loan Co.* v. *General Loan Co.*, 163 F.2d 709, 712; *Best & Co., Inc.* v. *Miller*, 167 F.2d 374, certiorari denied, 335 U. S. 818; *Sunbeam Corporation* v. *Sunbeam Furniture Corp. et al.*, 85 USPQ 58, 61.

The suggestion has been made that even though the issue on appeal has become res judicata since the appeal was taken, the court is without jurisdiction to consider the question because under R. S. § 4914 our jurisdiction is limited to a review of the evidence produced before the Commissioner and our revision of the decision appealed from must be confined to the points set forth in the reasons of appeal.

Our jurisdiction in trade-mark appeals, it should be here noted, is that formerly vested in the Court of Appeals for the District of Columbia, now the United States Court of Appeals for the District of Columbia Circuit. *Macleay Duff (Distillers)*, v. *Frankfort Distillers, Inc.*, 29 CCPA (Patents) 1160, 129 F.2d 695, 54 USPQ 253, 544 O. G. 8.

In the case last cited, this court readily recognized the elementary rule of law that a point challenging the jurisdiction of a court to consider an appeal may be raised at any stage of the proceeding; that no formal motion need be made to dismiss the appeal on the ground that the court has no jurisdiction to entertain the appeal; that the matter of jurisdiction may be urged merely in the brief of a party, "and furthermore the court sua sponte may and should, if it be apparent it has no jurisdiction under the plain provisions of law, as it appears in this case, dismiss the appeal."

Moreover, the point in question has been squarely decided to the opposite effect in the case of *In re Drawbaugh*, 9 App. D. C. 219, wherein it was held not only that the Commissioner of Patents but also the Court of Appeals for the District of Columbia was bound to take judicial notice of the final judgment of a court of competent jurisdiction, regardless of the reasons of appeal, and that recourse to the officially reported opinion of the court may be had in determining what facts were put in issue and directly determined by the judgment.

United States courts of appeals, including the Supreme Court of the United States, take judicial notice, without plea or proof, of the findings of fact and the conclusions of law of the judicial opinions or decisions, in law and in equity, not only of their own courts but also of the courts of the several States and Territories and of other courts of the United States. *Pennington* v. *Gibson*, 16 How. 65, 57 U. S. 65; *Atlantic Fruit Co.* v. *Red Cross Line*, 5 F.2d 218; *Hutchins* v. *Pacific Mut. Life Ins. Co. of California*, 97 F.2d 58, 59; *Kirk* v. *Squier*, 150 F.2d 3, 5.

Where no opinion was written or officially published in the case whose judgment is relied upon as a ground of estoppel, a different situation is presented, and a different rule of procedure is involved since additional evidence is required in bringing the matter not only within the jurisdiction of this court but also to the attention of the tribunals of the Patent Office. *In re Langsner*, 31 CCPA (Patents) 785, 139 F.2d 512, 60 USPQ 186, 569 O. G. 6; *In re Isler*, 33 CCPA (Patents) 791, 152 F.2d 1002, 68 USPQ 198, 586 O. G. 4. See also *Van Camp Sea Food Co. (Inc.)* v. *The Alexander B. Stewart Organizations*, supra.

No case presenting precisely the same situation that is here presented has been cited by appellant in support of its position. Appellant has submitted two cases, however, as illustrative of the prevailing practice in the Patent Office relative to the application in a pending appeal of the doctrine of res judicata, or estoppel by judgment.

The obligation of the Commissioner of Patents in a pending appeal to abide by a previous decision of the United States District Court for the Southern District of California based on the finding of fact established in an infringement suit, that the involved marks were confusingly similar, was recognized and applied by the Commissioner in denying registration of the applicant's mark which was there involved. *The Coca-Cola Company* v. *Los Angeles Brewing Co.*, 46 USPQ 553.

The decision of the Commissioner of Patents in the case of *Nion Corporation* v. *Burroughs Wellcome & Co., (U. S. A.), Inc.*, 68 USPQ 113, is also pertinent. The party Burroughs Wellcome & Co. took no appeal there from the Commissioner's decision, awarding priority to the party Nion and holding it was entitled to the registration of the trade-mark "Avicap," but filed an action under R. S. § 4915 in the United States District Court for the Southern District of California.

The suit in equity just described resulted in a judgment that Burroughs Wellcome & Co. was entitled to the award of priority and the Commissioner was thereby authorized and directed to grant such registration, 65 USPQ 511. From that judgment, the party Nion did not appeal but allowed the decree to become final. Thereafter Nion petitioned the Commissioner to ignore the judgment of the district court. In denying the petition, the Commissioner stated that the petitioner, having failed to appeal from the decision of the District Court for the Southern District of California was bound thereby, and so was the Commissioner of Patents, citing *Gandy* v. *Marble*, 122 U. S. 432, 39 O. G. 1423.

The Commissioner of Patents in a recent ex parte proceeding involving an application for the registration of a trade-mark was faced with the dilemma of electing therebetween the conflicting judgments previously rendered on one of the points in issue by the Court of Customs and Patent Appeals on the one hand, and the Circuit Court of Appeals, Ninth Circuit, including the southern district of California, on the other hand. The Commissioner recognized his predicament but elected to reject the involved application by reason of the adverse decision by this court on the point in question. *Ex parte Westgate Sea Food Co.*, supra. From that decision by the Commissioner, no appeal has been taken by the applicant to this court under the provisions of R. S. § 4911, 35 U. S. C. § 59*a*, and its time to appeal here has expired.

Appellee was not only completely defeated in the District Court for the Southern District of California but also failed to take an appeal from the judgment thereof to the Circuit Court of Appeals. Tha' tribunal would not have been bound by the judgment of the district court and the concurring decisions of the Examiner and the Commissioner of Patents would have been there entitled to special consideration. *Morgan* v. *Daniels*, 153 U. S. 120, 67 O. G. 811; *Safeway Stores, Inc.* v. *Dunnell*, 172 F.2d 649, 80 USPQ 115.

In view of the fact that appellee did not appeal from the judgment of the district court which held

that appellant's trade-mark was not confusingly similar to that of appellee, the judgment to that effect became final. The issue as to the confusing similarity of the marks raised in this court by appellant's reasons of appeal has thus become res judicata since the taking of the appeal.

Accordingly, this court may either dismiss and remand the case, thereby disposing of the appeal before this court and restoring the jurisdiction of the Patent Office to take further action in accordance with law or, preferably, this court may reverse the decision appealed from on the ground that the controlling issue has become res judicata, thereby directly affecting the action of the Commissioner of Patents with respect to appellant's right to the registration of its trade-mark.

For the reasons hereinbefore stated, the decision of the Commissioner of Patents should be reversed.

U. S. Court of Customs and Patent Appeals

IN RE TAYLOR

No. 5714. Decided June 30, 1950

(183 F.2d 77; 86 USPQ 416)

1. PATENTABILITY—PARTICULAR SUBJECT MATTER—PROCESS FOR PRESERVING COMESTIBLES.

Held that certain claims to a process of preserving comestibles of the non-cereal type are patentable over the prior art since there is nothing in any of the references singly or together which would make it obvious to one skilled in the art to do as appellant has done, and the decision of the Board of Appeals is, accordingly, reversed.

APPEAL from the Patent Office. Serial No. 572,421. REVERSED.

Adams, Forward and McLean (*L. D. Forward, C. M. Fisher, R. T. McLean, Lawrence D. Dibble,* and *S. H. Brown, Jr.*, of counsel) for Taylor.

E. L. Reynolds (*S. Wm. Cochran* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting all of the claims 1 to 9, inclusive, of a patent application, Serial No. 572,421, filed January 11, 1945, for "Improvement in Chemical Manufacture."

Claims 2 and 6 were rejected as not readable on the elected species and are therefore not before us on their merits. All of the other claims were rejected as not being patentable over the cited prior art, as follows: Allen, 1,098,006, May 26, 1914; Tranin et al., 1,945,102, Jan. 30, 1934; Evans (Australian), 116,149, Nov. 25, 1942.

Claim 3 is illustrative of the subject matter of the rejected claims and reads as follows:

3. A process for the preservation of comestible materials of the non-cereal type and which normally contain high proportions of water whereby contaminating micro-organisms are eliminated without deleteriously affecting the taste, odor and nutritional value of the comestible material, which comprises submerging the comestible material in an aqueous solution of chlorine dioxide.

The application relates to a process for the preservation of comestible, perishable materials of a non-cereal type normally containing high proportions of water, such as meat, fish, vegetables, fruits and the like. In the process, the foodstuffs are treated with a chemical known as chlorine dioxide, the molecules of which consist of one atom of chlorine in chemical combination with two atoms of oxygen. It is said that the application of chlorine dioxide effectively eliminates the contaminating micro-organisms which cause foodstuffs containing a high percentage of moisture to deteriorate or spoil. It is claimed that by the use of appellant's process, as aforesaid, the food is not affected in taste, odor or nutritional value and is not bleached.

The patent to Allen is concerned with a process of preserving fruit substances, such as fruit pulps and juices, the pulps and juices of vegetables, finely divided vegetable substances and grated meats, but more particularly, tomato pulp and apple pulp. It is stated in the patent that its object is to introduce a harmless antiseptic material into the foodstuffs and that after such treatment no trace of the antiseptic material will remain and no injurious product will result. In the process of the patent, the edible substances have added to them an amount of arsenic-free hydrochloric acid equaling about four-tenths of one per cent of the material to be treated. That amount of acid is said to be twice the quantity present in human gastric juice, but that proportion may vary from one per cent to one-tenth of one per cent, according to the material upon which it is used. The hydrochloric acid is said to render the food to which it is applied practically sterile for a long period of time. The material is further treated for the preparation of marketable food by adding an amount of arsenic-free sodium bicarbonate or sodium carbonate to neutralize the acid. When such neutralization has taken place, the food is said to have only a slight admixture of common salt, the water which is added being negligible and the carbon dioxide passing off freely.

The Tranin et al. patent relates to a method of treating food products normally supporting micro-organisms. The process is said to reduce the activity of such organisms. The principal object of the invention, in reducing the undesired effect of bacteria on food and like products without deleteriously affecting the natural qualities thereof, is accomplished by employing a fluid and/or radiant germicidal agents. The particular object of the invention reads as follows:

More particularly our invention consists in applying a fluid germicidal agent to a translucent food product to destroy a substantial proportion of micro-organisms associated with the product, passing the product and portions of the agent associated therewith in a relatively thin stream between lamps emitting ultra violet rays to effect destruction of organisms not acted on by the fluid agent and stimulate the activity of vitamines, heating the moving stream to promote rapid evaporation of the fluid agent, and effecting removal of vapors without exposing the food to air.

The chemical treating agent disclosed in the patent consists of germicidal gas or volatile liquid or solid, harmless to the foods in which it is placed. Among such substances are hydrogen peroxide, ozone, and halogens, including chlorine, bromine and iodine, which are made to permeate the body of the liquid food and bubble therethrough. It is stated that the chlorine gas in small amounts has substantially no chemical effect on the food and is associated therewith long enough while moving through the patentee's apparatus to obtain a maximum effect for the proportional amount of chlorine used. If the chlorine in the food stream is insufficient to sterilize completely the food, the ultra violet rays through which the mixture passes will destroy substantially the bacteria unaffected by the chlorine. It is said that the gas, together with the ultra violet rays, produces that result and that a temperature of about 100° Fahrenheit, which is maintained throughout the process, together with the radiant element, compensates for any deficiency or excess of chlorine. The claims of the patent all define a method of treating foods which includes both the introduction of the germicidal agent and the ultra violet rays.

The Australian patent relates to "Improvements relating to the treatment of wheat, rye and other cereals and their milling products." The patentee states that the purpose of the treatment is to improve the quality and color of flours obtained from the cereals and also to bleach bran. It is acknowledged in the patent that in the milling industry flour may be bleached by the use of a variety of chemicals and that such bleaching is probably due to the conversion of the carotene or related yellow coloring matter of the flour to the oxidized or addition compound which is colorless. It points out that it was known to bleach bran and wheat with sulphur dioxide or stannous chloride which are chemical reducing or oxygen removing agents, but when bran is effectively bleached, the endosperm (the nutritive tissue formed within the embryo sac in seed plants) is spoiled for baking purposes when the bleaching agents are applied to the whole grain. The patentee states that in his process the whole wheat or the bran is treated with oxidizing agents in the presence of moisture whereby the product is bleached and the baking properties of the endosperm are not affected. The bleaching agent disclosed may consist of oxides of chlorine, either chlorine dioxide in gaseous form or in solution of chlorine monoxide in gaseous form, or in a solution of hypochlorous acid or hypochlorites. In the patentee's process the wheat is dampened with a solution of the bleaching gas or by the bleaching gas in water with which the wheat is washed, or by applying the bleaching gas to the wet wheat after washing. It is stated that care must be taken to insure against injury to the endosperm by the gas so that the only bleaching is of the pigment found in the husk of the grain. It is said that the wheat or other cereal subjected to the process of the patent is sterilized and the possibility of the occurrence of "rope" in bread is avoided. The amount of the oxidizing agent used depends on the extent of the bleaching intended, but must be in sufficient quantity to bleach to the color of what is known as "white wheat." The seven claims of the patent all refer to the bleaching of the cereal substances.

The Primary Examiner, in his statement, rejected the involved claims as lacking invention over the Australian reference for the reason that the reference discloses the use of chlorine dioxide in bleaching and sterilizing cereal products and flour. He held that he could not perceive invention in applying a known sterilizing agent to food products other than cereals. The Examiner then observed that the sterilization and preservation of perishable food products by means of chemicals is well known, as instanced by the Allen and Tranin et al. patents and therefore he did not consider invention would be involved in using chlorine dioxide in like relationship. He held it to be obvious that in selecting a sterilizing agent for food products one would have to be selected which would not affect the comestible material to its detriment and that the limitation in the claims "without deleteriously affecting the taste, odor and nutritional value of the comestible material" did not impart patentability. Because he considered that the preservation and sterilization of various types of food by means of chemicals is old in the art, as shown in the Allen and Tranin et al. references, he held that it would be obvious to one skilled in the art to use chlorine dioxide in any type of food.

The Board, in its decision, did not find reversible error in the action of the Primary Examiner and stated that where, in the prior art, there is suggestion of the trial of a process, invention is not involved in trying it and to discover that it is successful, citing *In re Lake*, 33 CCPA (Patents) 1168, 156 F.2d 237, 70 USPQ 241, 591 O. G. 330.

Counsel for appellant petitioned the Board for reconsideration of its decision, alleging that the Board apparently believed that the Australian patent related primarily to sterilizing wheat and that the bleaching thereof was incidental. That allegation was based upon a portion of the Board's decision in which it was stated that the patent "* * * describes treatment of wheat or other cereals with chlorine dioxide either in a gaseous form or in solution. The gas may be added to the water used in washing the wheat. It is stated that the wheat so treated is sterilized and the possibility of occurrence of rope in bread made from the wheat is avoided. Improved color of wheat is noted by patentee."

In the petition it was argued that the purpose of the Australian patentee was to bleach wheat and that when the bleaching had been effected it was noted that the wheat was sterilized. Counsel contended that their interpretation is correct and the difference between it and the interpretation placed upon the Australian patent by the Board is crucial for the reason that the patentee had for his primary object the using of the well known property of chlorine dioxide to decompose organic coloring matter such as carotene. Counsel then observed that carotene is the source of vitamin "A" in foodstuffs and that its destruction deleteriously affects the nutri-

tional value of foodstuff, whereas all of appellant's claims for preserving foodstuffs called for such preservation "without deleteriously affecting the taste, odor and nutritional value" thereof.

Counsel for appellant challenged the decision of the Board with respect to its statement that the Tranin et al. patent embraces the subject matter of the involved claims because it recites the use of chlorine gas for treating liquid substances. It was pointed out in the petition that chlorine and chlorine dioxide are different in that the latter does not contain elemental chlorine and does not behave in the same way. They quoted the description of chlorine dioxide as found in the Encyclopaedia Britannica, wherein it is stated that the chemical is "a very powerful oxidant." They further pointed out that Mellor in a treatise on "Inorganic and Theoretical Chemistry," 1927, vol. II, presents a section, which is of record here, on the singular behavior of chlorine dioxide. It is stated in that authority that the chlorine dioxide may be prepared by a reaction between potassium chlorate and sulphuric acid in which reaction all traces of organic matter must be excluded. The author points out that

> Chlorine peroxide is a powerful oxidizing agent—a piece of phosphorus, sulphur, sugar or other combustible takes fire spontaneously in the gas, or produces an explosion . . Indigo, litmus, and other organic colouring agents are decolorized by chlorine dioxide.

The Board considered appellant's petition for reconsideration but refused to change its original decision.

As far as the record is concerned there is nothing to show that anyone had ever before appellant's disclosure used or suggested a process by means of which comestibles containing large quantities of water could be sterilized and preserved by the use of chlorine dioxide without at the same time bleaching the substance processed or changing it in taste, odor or nutritional properties. Therefore, appellant's process is novel.

Neither has there been a suggestion of the treatment of perishable foodstuffs such as apparently was first conceived and practiced by appellant. Chlorine dioxide has long been known as a powerful oxidizer which would decolorize organic coloring agents, as shown by Mellor.

In the Australian patent, cereals are shown to be bleached by the use of chlorine dioxide and such bleaching was accomplished by converting the carotene, or related yellow coloring matter, into colorless compounds. We think it fair to infer that everything which was known about chlorine dioxide would lead one to believe that when applied to foodstuffs it would bleach them. We do not think it reasonable to hold that chlorine dioxide, as used in the Australian patent, would sterilize the cereal but not bleach it. The use of that powerful oxidizing agent in the process of bleaching certainly would destroy micro-organisms at the same time, but we are unable to understand how it could be that such organisms could be killed without bleaching.

It is pointed out in the brief of appellant that in the involved application it is noted that "Particularly, tests have indicated that it has no effect on the ascorbic acid content." It is stated in Chemistry of Organic Medicinal Products, 2nd Edition, by Jenkins and Hartung, at page 276, that "ascorbic acid is one of the least stable vitamins and may be largely destroyed in the canning of foods." That is because it oxidizes very easily. However, when chlorine dioxide is applied to foods containing large proportions of water, as is disclosed in the process of appellant, it has no effect on the ascorbic acid content. That action is quite different than the action shown in the Australian patent of chlorine dioxide in its effect on carotene contained in the cereal.

The improvement of color of wheat processed in accordance with the Australian patent clearly can mean nothing more, as has hereinbefore been noted, than that the wheat be of white color. We are of opinion that the tribunals of the Patent Office erred both in their interpretation of the Australian patent and its application to the present issue.

It may be noted that the process of the Allen patent treats the aqueous food substances with hydrochloric acid and then neutralizes such acids with sodium bicarbonate so that it is converted into ordinary table salt. We find nothing in that patent to anticipate or to teach one skilled in the art the process of appellant.

The sterilization shown in the Tranin et al. patent is obtained by two different operations, one of which involves the use of a germicidal agent and the other the utilization of ultra violet light, each of which cooperates with the other to kill all of the micro-organisms in the food.

We find nothing in the Tranin et al. patent which would suggest to one skilled in the art the use of chlorine dioxide as is claimed by appellant.

We find nothing in any of the references singly or together which, in our opinion, would make it obvious to one skilled in the art to do as appellant has done, and for the reasons hereinbefore set out, the decision of the Board of Appeals is reversed.

REVERSED.

U. S. Court of Customs and Patent Appeals

IN RE BOWDEN ET AL.

No. 5716. Decided June 30, 1950

[183 F.2d 115; 86 USPQ 419]

1. PATENTABILITY — INVENTION — CRITERIA OF OBVIOUSNESS.
   Held that in determining whether a procedure was obvious to anyone skilled in the art, the court has the obligation of appraising, not only the day to day capacity of the ordinary person skilled in the art, but also the history and underlying state of the art at the time of the alleged invention, the occasion for it, and the success it has attained.
2. SAME—SAME—FAILURE OF THOSE SKILLED IN THE ART TO PRODUCE INVENTION.
   Held that the actual failures by men skilled in the art to produce a composition such as is defined by the appealed claims indicates that what appellants have done would not be an obvious expedient.
3. APPLICATION—AMENDMENT TO CORRECT MISSTATEMENT.
   Since an inventor need not understand the principle upon which his invention works and chemical reactions are frequently unpredictable, *Held* that a specification may be amended to correct a misstatement subsequently discovered.
4. PATENTABILITY—PARTICULAR SUBJECT MATTER—INSECTICIDAL COATING COMPOSITION.
   Certain claims to a coating composition containing DDT *Held* to define invention over the cited prior art.

APPEAL from the Patent Office. Serial No. 576,370.

REVERSED.

Louise H. Baer for Bowden et al.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from not only the original decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner in his rejection of all of the claims, 12–19 and 22, in appellants' application for a patent on insecticidal coating compositions but also from the decision of the same tribunal continuing the disallowance of the claims following appellants' petition for reconsideration. Claim 19 was rejected as not reading on the elected species of coating composition and, therefore, need not be considered on the merits.

The composition claimed is a new oil paint or varnish, containing a small amount of DDT, which upon application to a suitable surface, and after a suitable drying period, manifests a high degree of insecticidal activity over subsequent months, substantially abolishes the prevalence of flies and other insects, and thereby diminishes the spread of diseases.

The claims were rejected as unpatentable over the following prior art relied upon by both the Examiner and the Board: Calcott et al., 1,958,418, May 15, 1934; Patterson et al., 2,097,339, Oct. 26, 1937; Geigy (British), 547,874, Sept. 15, 1942; Muller, 2,329,074, Sept. 7, 1943.

The following references "of interest" were cited also by the tribunals of the Patent Office:

Anderson, 2,346,409, Apr. 11, 1944; "Persistence of DDT, in Oil-Bound Water Paint," Nature, Oct. 21, 1944, pp. 512, 513; Carrick, "The Use of DDT in Paint," Paint, Oil and Chemical Review, Nov. 1, 1945, pp. 104, 105; Gilmour, "The Toxicity to Houseflies of Paints Containing DDT," Journal of the Council for Industrial Research, August 1946, pp. 225–232.

Two publications were added to the list of references and incorporated in the record by request of appellants in their petition for reconsideration. One such reference was to a report published in Paint Technology in December of 1944, at pages 261–264. The other was to a report on The State of the Art published at page 2 of the Aminco Laboratory News of March of 1945.

A composition of matter is defined by the appealed claims, the respective limitations of which make some of the claims more specific than others. It is deemed however that all of the claims stand or fall together and that claim 12 is illustrative of the subject matter upon which appellants rely to define invention. Claim 12 reads:

> 12. An insecticidal substantially water-immiscible, coating composition comprising a coating composition substantially immiscible with water and containing a substantial portion of an unsaturated, fatty drying-oil constituent as the major film-forming agent, a proportion, effective as an insecticide of 2,2-bis (p-chlorophenyl) 1,1,1-trichloroethane, and an organic volatile solvent for said 2,2-bis (p-chlorophenyl), 1,1,1-trichloroethane, the amount and the volatility of said solvent being such as to cause migration of said 2,2-bis (p-chlorophenyl) 1,1,1-trichloroethane to the exterior of the coating film after an initial film has been formed.

Appellants in their brief allege that:

> The essence of the invention is in the concept and discovery that to have effective insecticidal action and drive the DDT through pigment particles and hardened film of unsaturated fatty drying oil, there must be a *sufficient amount* of a *volatile* solvent to do the work.
> . . . . . .
> The appellants found that preferably from 10–30% by weight [as defined in their specification], but as much as *10 to about 40% by weight*, as calculated from the examples [set forth in their application], of a volatile organic solvent was necessary to carry enough DDT to the surface to effectively obtain at least a 50% kill which is considered by the art to be the minimum effectiveness. [Italics quoted.]

The composition defined by claim 12 contains three essential ingredients: (1) an unsaturated, fatty drying oil constituent as the major film-forming agent; (2) a proportion, effective as an insecticide, DDT; and (3) an organic volatile solvent of an amount and volatility sufficient to cause the DDT to migrate to the exterior film surface of the coating where it is deposited in the form of crystals after the initial coating film has been formed.

In the following discussion, 2,2 bis (p-chlorophenyl) 1,1,1-trichloroethane, a toxic poison, will be identified as DDT. References disclosing joint inventors will be identified without repetition of the term et al.

The basic references are the patents to Calcott and Patterson, each of which was assigned to E. I. du Pont de Nemours & Company. Neither reference discloses the use of DDT.

The patent to Calcott discloses coating compositions, for example, paints and varnishes, used as resistant or toxicant materials to prevent marine growths on ship bottoms. The toxic is soluble in the film-forming agent. The essential ingredients incorporated in the coating are (1) a synthetic drying oil, which is particularly suitable for the preparation of the paint, or film-forming agent; and (2) a toxic substance soluble in the film-forming agent and employed in a quantity exceeding its solubility in the film-forming agent, so that the toxic substance tends to "bloom out" on the surface of the film or coating.

The patent to Calcott suggests, but does not require, the use of a solvent and the specification states that the toxic may be added to previously prepared paints, varnishes, and coating compositions. In the event of the use of a solvent to cause the toxic to "bloom out," the use of about 20% by weight of xylene is disclosed in the cited example.

The patent to Patterson, like the patent to Calcott, discloses the use of toxic materials in paints of various types. The patent is directed particularly to coating compositions or paints, resistant to

fungus and containing a mold preventative, for use on houses and barns and on the shutters or the trim of houses and barns. The mold inhibitor comprises certain organic mercurials, and phenyl mercurials. The compound is often ground in part of the thinner used in making the paint. The compound may be added also as a powder or in the form of a solution. A percentage of solvent is disclosed which falls within the range claimed by appellants in claims 13 and 14. Patterson does not mention that the amount of the solvent is critical or that it is essential as a vehicle for carrying the toxic to the surface.

The patent to Muller was assigned to Geigy, owner of the British patent to Geigy, hereinafter described. Muller discloses a composition containing DDT as its essential ingredient. The composition is used either in the powdered state or in a sprayed solution for combating insects of all kinds such as flies, beetles, moths, and plant lice.

The British patent to Geigy relates to solid insecticidal compositions or powdery compositions containing DDT. The solids are inorganic porous materials and the DDT may be applied in powdered form or dissolved in a solution.

The appealed claims, 12–18 and 22, were finally rejected as lacking invention over Calcott or Patterson in view of either Muller or the British patent to Geigy. The Patent Office took the position that the substitution of DDT, disclosed by Muller and by Geigy, for Calcott's toxic would meet the claims, since Calcott disclosed that, by calculation, about 20% by weight of xylene as a solvent was used in combination with the toxic, the silica extender and the synthetic drying oil.

The rejection on Patterson, in view of the two subsidiary references, was based on the disclosure of an amount of solvent as claimed in claims 13 and 14. Substituting DDT for the mold inhibitor of Patterson, according to tribunals of the Patent Office, would not involve invention.

The Solicitor for the Patent Office bases his position here on the proposition that:

> • • • Utilizing the newer insecticides as they become available in place of the older ones does not constitute invention. • • • And even though appellants have achieved a desirable result, such achievement is not invention, since, the substitution being obvious, the results that flow from such obvious adaption of materials plainly foreshadowed by the teachings of the prior art, requiring only routine trial and error experimentation. • • •

Appellants do not dispute that paints and varnishes are disclosed whose solvent content falls within appellants' 10–40% by weight range. Nor do they deny that among painters it is common practice to reduce the viscosity and increase the fluidity of paint to permit its easy application, and that it is old in the art to add a toxic material to thinned paints to form an insecticide.

Appellants point out, however, and there is no dispute about it, that they were the first ever to produce a successful DDT coating composition of the oil type. The real point in issue, therefore, is whether their contribution to the art in substituting DDT for the toxic content disclosed by the basic references was inventive or merely a procedure obvious to anyone skilled in the art.

[1] Judge Learned Hand once stated that "it is the obvious when discovered and put to use that most often proves invention. In such matters we look rather to history than to our own powers of divination, if history is at hand." *H. C. White Co. v. Morton E. Converse & Son Co.*, 20 F.2d 311, 313. Divination, as Judge Hand explained, means the duty of divining performed by the courts in reaching a conclusion as to whether a new display of ingenuity is an invention beyond the compass of the routineer. It involves the obligation imposed upon the courts of appraising, as best they can, and with such good sense as they may have, not only the day to day capacity of the ordinary person skilled in the art, but also the history and underlying state of the art at about the time of the alleged invention, the occasion for it, and the success it has attained. *Kirsch Mfg. Co. v. Gould Mersereau Co., Inc.*, 6 F.2d 793. There the court reached the final conclusion that:

> There comes a point when the question must be resolved by a subjective opinion as to what seems an easy step and what does not. We must try to correct our standard by such objective references as we can, but in the end the judgment will appear, and no doubt be, to a large extent personal, and in that sense arbitrary.

In the case at bar, appellants have produced not one but a number of published statements by workers and experts skilled in the art which proved that prior to the time the appellants filed their application on February 5, 1945, and for some time thereafter, the art considered DDT in a film-forming paint would be ineffective. Listed in chronological order, is (1) an article published in Nature Magazine of October of 1944 by G. A. Campbell, of the Geigy Colour Co. Ltd. and T. F. West, which reads:

> • • • in the more durable coatings such as oil paints and synthetic varnish paints, one might expect the D.D.T. particles to be prevented from exercising their insecticidal effect because of the strongly absorbed oil film. These expectations were, in fact, confirmed by our results • • •.

In December of 1944, a report (2) was made in the Journal Paint Technology of a document read before a general meeting of the Oil and Colour Chemists' Association by G. A. Campbell, M. Sc., and T. F. West, Ph. D., F. R. I. C., which, among other things, stated:

> • • • Zinc mesh fly cages were lined with pieces of plywood cut to fit, and these were coated with • • • white lead oil paint and synthetic varnish enamel, each containing 5 percent of DDT which was incorporated by straight grinding • • •. The oil paint and the synthetic enamel containing DDT did not prove insecticidal to flies at all, probably owing to the oil forming a completely protective layer round the DDT • • •.

In the Aminco Laboratory News of March of 1945, supra, the following statement (3) appears:

> Harder finishes, like ordinary oil paints and synthetic varnishes, have thus far not proven successful as carriers of DDT, the negative result being ascribed to the tighter adsorption of the oil film; however, experiments with these types of coatings are being continued.

On October 31, 1945, in the Paint, Oil and Chemical Review, supra, L. L. Carrick, professor of chemical engineering, at the University of Michigan, and consultant of the scientific section of the National Paint, Varnish and Lacquer Association, Inc. gave a review (4) of the literature on DDT which, among other things, stated:

> The effectiveness of DDT in semi-gloss and gloss oil paints and synthetic enamels remains to be demonstrated. It is presumed, in the absence of more definite information, that the microscopic particles of DDT are completely coated with an adsorbed oil or resin film, and hence are effectively insulated so that direct contact with crawling insects is for all insecticidal purposes prevented. • • •

[2] The actual failures by men skilled in the art to produce a composition such as is defined by the appealed claims indicates that what appellants have done would not be an obvious expedient and that appellants are therefore entitled to the allowance of such claims. This is particularly true in the case at bar since the two reference patents disclosing the use of DDT as a toxic ingredient in a coating composition were both owned by the Geigy organization whose representative made the report, supra, that in doing what appellants had done, the DDT particles would be prevented from effecting their insecticidal effect.

[3] There has been a great amount of discussion in the decisions of the tribunals of the Patent Office and in the brief of the Solicitor relative to the fact that appellants assumed, up to the time of filing their presently involved application, that synthetic drying oils would be equally effective with the fatty drying oils in effecting the desired result and that the application so states.

Appellants, however, upon the discovery of that misstatement, properly corrected their specification. Under the law a patent will be issued to an inventor although he may not understand the principle upon which his invention works. *In re Parlanti et al.*, 34 CCPA (Patents) 803, 158 F.2d 1018, 72 USPQ 275, 598 O. G. 448. Moreover, since chemical reactions frequently are unpredictable, a specification may be amended at the proper time to supply corrected data subsequently discovered.

Numerous other points have been vigorously and ably argued not only in the respective decisions of the tribunals of the Patent Office but also in the briefs of the Solicitor for the Patent Office and counsel for appellants. [4] However, in view of the conclusion hereinbefore expressed, it is deemed unnecessary to discuss those matters, and the decision of the Board of Appeals with respect to the appealed claims is reversed.

REVERSED.

U. S. Court of Customs and Patent Appeals

IN RE KRUKOVSKY ET AL.

No. 5715. Decided June 30, 1950. Petition for rehearing denied Sept. 29, 1950.

[184 F.2d 333; 87 USPQ 110]

1. PATENTABILITY—ANTICIPATION—REFERENCE NEED NOT BE DEFINITIVE.
   Held that a publication need not be definitive to constitute a valid anticipation of a claimed invention.
2. SAME—SAME—SAME.
   Where the applicant attacks the conclusion stated in the reference as being based on inconclusive evidence, *Held* that the conclusion is adequate as an anticipation if it is reasonably deducible from the experiment conducted.
3. SAME—PARTICULAR SUBJECT MATTER—PROCESS OF TREATING MILK.
   Certain claims to a process of inhibiting the development of tallowy flavor in milk, *Held* unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 544,772.

AFFIRMED.

Robert V. Morse for Krukovsky et al.

E. L. Reynolds for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner rejecting all the claims, 1 to 6, inclusive, in appellants' application for a patent entitled "For Milk Process."

The brief on behalf of appellants describes the alleged invention as "a process for preventing the development of tallowy flavor (i. e. 'oxidized flavor') in milk, by the prompt and controlled removal of normal ascorbic acid content from the whole milk complex."

Claim 1 is considered as illustrative of the subject matter and reads:

> 1. A process for inhibiting the development of tallowy flavor in milk and products subject to tallowy flavor derived from milk which comprises selectively eliminating vitamin C (ascorbic acid) from fresh milk early in the normal processing of fresh milk, whereby the reactions involved in the development of tallowy flavor are checked in their initial stages.

Claim 4 is substantially identical in scope with claim 1. Claims 2, 3, and 5 recite additionally that the process which results in the elimination of the ascorbic acid is terminated before useful components of the milk such as riboflavin are destroyed. Claim 6 is similar to the other claims with the addition of the step of pasteurizing the milk. Therefore, so far as the prior art is concerned, all of the claims must stand or fall together. The claims were rejected as lacking invention over the prior art and also on the ground of indefiniteness.

The references relied on are: Olson et al., "Oxidized Flavor in Milk XI." Reprinted from Journal of Dairy Science, December 1942, vol. XXV, No. 12, pages 1029–1039, pages 1029 to 1035 only; Olson et al., Journal of Dairy Science, vol. 25, July–December 1942, pages 1027, 1028, 1036 to 1038, 1041 to 1050; Rosenberg, "Chemistry and Physiology of the Vitamins," 1942, Interscience Publishers, Inc., N. Y., pages 292, 295.

The application discloses that the development of the tallowy flavor, which is also known as oxidized flavor, in milk is traceable to the ascorbic acid (vitamin C) content of the milk, and the claims relate to a process which is said to prevent the development of that flavor in milk. That result is said to be accomplished by eliminating the vitamin C (ascorbic acid) content of fresh milk. The vitamin C may be eliminated by photo-oxidation, or chemical oxidation; that is, by exposure to sunlight or ultraviolet rays from suitable lamps, or by oxygen, or any other available method.

Appellants' description presents experiments using photo-oxidation, the source of ultraviolet rays being daylight diffused through window glass. However, it is stated that the particular means used is immaterial provided the treatment is started promptly and is stopped as soon as the vitamin C is eliminated, and before the riboflavin is destroyed.

The Rosenberg citation describes vitamin C as

occurring in cow's milk and discloses the susceptibility of the vitamin to destruction by oxidation.

The Olson et al. references represent selections from a series of papers, published in the *Journal of Dairy Science*, reporting work done at the West Virginia Agricultural Experiment Station on oxidized flavor in milk, and teach that "* * * it would seem that the mechanism for the development of oxidized flavor in milk might be the oxidation of ascorbic acid with the production of hydrogen peroxide which then oxidizes the phospholipids, liberating the compounds which give the oxidized flavor"; that "* * * ascorbic acid has been shown to catalyze the oxidation of phospholipids and produce an oxidized flavor in washed cream * * *"; that "The results obtained in this experiment indicate that either ascorbic acid or glutathione, or both, are probably involved in the mechanism whereby an oxidized flavor is developed in milk"; and that "Both glutathione and ascorbic acid catalyze the development of oxidized flavor."

Appellants contend "(1) that Olsen & Brown's experiments were not in fact conclusive even as to the role of ascorbic acid with 'washed cream'; (2) that even if they had conclusively established that ascorbic acid caused tallowy flavor in such an isolated material, it was still not obvious or certain that no other action in the complex environment of milk would give the tallowy flavor, so that until appellants successfully carried thru their definitive experiments no patentable discovery was made"; in other words, that the experiments described in the Olsen et al. references are not sufficient to support the conclusions stated.

[1] A publication need not be definitive to constitute a valid anticipation of a claimed invention. We have held that a printed publication is a proper reference against a patent application although the invention as disclosed in the publication is not described in the terms used in the application, so long as the same inventive concept is found in both. *In re Wenzel*, 24 CCPA (Patents) 1050, 88 F.2d 501, 33 USPQ 30, 484 O. G. 11. A publication anticipates where it discloses the claimed process even though accompanied by a statement that the process is impracticable for commercial use, *In re McKee et al.*, 25 CCPA (Patents) 1116, 96 F.2d 504, 37 USPQ 613, 496 O. G. 574. A publication teaching that a named compound lacks efficiency to bring about the desired results under the experimental conditions described and including a statement cautioning readers that different results might be obtained under different conditions was held to be a proper reference by the court where the patent applicant by experimentation had found the named compound to have utility under certain conditions, *In re Colin*, 29 CCPA (Patents) 757, 124 F.2d 219, 52 USPQ 89, 538 O. G. 5. A patent application claiming a specific compound as the essential ingredient of an insecticide was held, on the authority of *In re Colin*, supra, to be properly anticipated by a publication disclosing that compound though accompanied with a teaching that it was not as effective as other insecticides, where the applicant had merely discovered that the compound was effective under certain unclaimed conditions, *In re Smith*, 32 CCPA (Patents) 959, 148 F.2d 351, 65 USPQ 167, 578 O. G. 447. The relevancy as an anticipating reference of a publication disclosing a claimed composition of matter was held not to be overcome by allegations that the processes set forth in the application would not produce the composition, the court being unable to hold that the disclosure was merely accidental. The court there held that where a product is clearly disclosed in a publication, the operativeness of the processes by which it was stated to have been produced is immaterial, the mere disclosure of the composition being sufficient to anticipate a claim for it, *In re Crosley et al.*, 34 CCPA (Patents) 882, 159 F.2d 735, 72 USPQ 499, 600 O. G. 172.

In the instant case, the authors of the publication references undertook to examine the mechanism of oxidized flavor in milk, beginning with the hypothesis, drawn from the research of others, that "the mechanism for the development of oxidized flavor in milk might be the oxidation of ascorbic acid with the production of hydrogen peroxide which then oxidizes the phospholipids, liberating the compounds which give the oxidized flavor." These men, recognizing that experimentation with milk is "complicated by the number of interfering substances," reasoned on the basis of work done by others before them that "If it is the phospholipids that give the oxidized flavor, they should be easily oxidized in washed cream and this could be used to test the theories." Accordingly, the authors selected cows whose milk was susceptible to oxidized flavor, and using their milk, gathered each morning, pasteurized and separated the milk, taking the cream so derived and washing it five times. It was that washed cream upon which the experiment performed by the authors was conducted. From the experiment, the details of which it is unnecessary for us to recount here, the authors concluded that "either ascorbic acid or glutathione, or both, are probably involved in the mechanism whereby an oxidized flavor is developed in milk," adding that "Both glutathione and ascorbic acid catalyze the development of oxidized flavor."

That conclusion is not a mere hypothesis, but a reasoned conclusion drawn from an appraisal of the fruits of the research of other who preceded the authors, as well as by the empirical data derived from their own carefully controlled experiment. The appellants make a vigorous attack upon the conclusion stated by the authors, alleging it to be inconclusive as an anticipation of their process because the authors carried on their experiment with washed cream rather than the whole milk complex, because the conclusion is stated in the disjunctive, and because the authors prefaced their conclusion with the word "probably." Appellants also challenge the validity of the conclusion in the light of various of the specific data developed by the experiment.

Sufficient it is to say, however, that we think the publication fairly discloses that ascorbic acid is involved in the development of the oxidized flavor in milk, and that appellants by their claimed process for preventing that flavor by eliminating by well known methods the ascorbic acid from the milk have merely confirmed the accuracy of that disclosure. The same inventive concept is found in both. Appellants have merely used concededly well known methods of removing ascorbic acid to accomplish the objective of preventing the development of the tallowy flavor in milk where the reference publication fairly and clearly announces that such oxidized flavor results from the presence of ascorbic acid in the milk. [2] That disclosure is a conclusion reasonably deducible from the experiment conducted to test the tenableness of a hypothesis assembled from data already existent in the art. The challenged references are as adequate in their disclosure as those held to be proper in the cited cases, supra, and we hold that the reference publications were properly relied upon by the tribunals below. [3] We agree with them that appellants' process is unpatentable over the disclosure of the references. In view of the state of the art, as illustrated by the references, it is impossible to accede to the view that what the appellants have done rises to the dignity of the inventive act required by R. S. 4886, 35 U. S. C. 31.

As this conclusion is determinative of the case, we need not consider the other grounds of rejection. The decision of the Board of Appeals accordingly is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,889,499, Rorrer & Mitterer, Apparatus and method of refrigeration; 1,987,796, 2,011,731, same, Refrigerated show case; Re. 21,264, same, Show case, filed Oct. 19, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12348–WM, *Stadium Stores Inc.* v. *Modern Refrigerator Works.*

1,987,796. (See 1,889,499.) 2,011,731. (See 1,889,499.)

2,180,909, C. Peckat, Awning for automobiles, D. C., N. D. Ill. (Chicago), Doc. 50c945, *Charles Peckat Mfg. Co. et al.* v. *Dieterich Products Corp.* Patent held valid and infringed; cause dismissed without prejudice Sept. 26, 1950.

2,211,873, 2,274,175, P. Whitcomb, Electric hoist; 2,240,523, C. H. Schramm, Sprocket chain guide for a hoist; 2,245,057, same, Electric hoist; 2,286,388, R. E. Smith, Hoist, D. C., S. D. N. Y., Doc. 55/293, *The Yale & Towne Mfg. Co.* v. *Manning, Maxwell & Moore, Inc.* Stipulation and order dismissing complaint and counterclaim as to 2,274,175 Aug. 30, 1950; stipulation and order of discontinuance Oct. 23, 1950.

2,219,568, W. R. Stewart, Electrical product, D. C., S. D. Calif. (Los Angeles), Doc. 12293–Y, *W. R. Stewart* v. *United Industrial Supply Co., Inc.* Dismissal by plaintiff Oct. 23, 1950.

2,220,237, J. E. Hall, Well cleaner, filed Sept. 9, 1950, D. C., W. D. Tex. (Pecos), Doc. 1213, *J. E. Hall* v. *B. & W., Inc., et al.*

2,235,624, N. Schwartz, Filter unit for respirators, D. C., S. D. N. Y., Doc. 47/700, *Hygeia Filtering Corp.* v. *S. W. Wilson Corp.* Stipulation and order of dismissal Oct. 20, 1950.

2,240,523. (See 2,211,873.) 2,245,057. (See 2,211,873.)

2,274,175. (See 2,211,873.) 2,286,388. (See 2,211,873.)

2,299,588, J. R. Proctor, Locking ring for metal container, D. C., S. D. Fla. (Tampa), Doc. 1748, *I. Parker* v. *J. M. Doss.* Judgment denying plaintiffs' application for injunction Oct. 12, 1950. Doc. 1750, *I. Parker* v. *J. Warner.* Decree as above.

2,404,283, C. K. Gieringer, Electrode for diathermy treatments, D. C., S. D. Ohio (Cincinnati), Doc. 2108, *The Liebel-Flarsheim Co.* v. *Max Wocher & Son Co.* Judgment holding non-infringement of claim 1; complaint dismissed Oct. 25, 1950.

2,414,811, T. Hollis, Jr., Cemented carbide cutting tool, D. C., E. D. Mich. (Detroit), Doc. 8811, *Super Tool Co.* v. *Kennametal, Inc.* Stipulation and order of dismissal with prejudice (notice Oct. 18, 1950).

2,460,229, S. N. Lebold, Bottle holder, D. C., N. D. Ill. (Chicago), Doc. 49c1811, *Morris Paper Mills* v. *Container Corp. of America.* Cause dismissed without prejudice Oct. 17, 1950.

2,467,001, P. E. Allen, Scuff pad for automobile fender, D. C., E. D. Mich. (Detroit), Doc. 8245, *No-Mar Mfg. Co. et al.* v. *Budd Barr Industries et al.* Patent held invalid for want of invention over prior art—invalid for want of patentability (notice Oct. 19, 1950).

2,515,604, J. S. Kish, Automobile bug deflector, filed Oct. 16, 1950, D. C. N. D. Ill. (Chicago), Doc. 50c1453, *H. E. Evans* v. *Tremax Industries, Inc.*

2,521,246, D. Newhouse, Shoe-form, filed Oct. 19, 1950, D. C. S. D. N. Y., Doc. 61/317, *D. Newhouse* v. *Frankel Plastics Corp.*

2,524,067, C. A. Miller et al., Rectangular pot-type oil burner, filed Oct. 16, 1950, D. C., N. D. Calif. (San Francisco), Doc. 30087, *Kresky Mfg. Co.* v. *Benner-Nawman, Inc.*

2,527,254, S. E. Hjelm, Toy automatic spring pistol, filed Oct. 25, 1950, D. C., E. D. N. Y. (Brooklyn), Doc. 11171, *Fifth Avenue Plastics, Inc.* v. *American Telex, Inc., et al.* Same, D. C., S. D. N. Y., Doc. 61/392, *American Telex, Inc., et al.* v. *Mavco, Inc., et al.*

Re. 21,264. (See 1,889,499.)

Re. 22,900, C. Harold, Power unit for amusement devices, D. C., E. D. Mich. (Detroit), Doc. 7587, *J. B. Tigrett et al.* v. *House of Plate, Inc.* Dismissed without prejudice (notice Oct. 23, 1950).

Des. 145,344, C. R. White, Toy figure, C. C. A., 2d Cir., Doc. 21672–3, *Knickerbocker Plastic Co., Inc.* v. *Allied Molding Corp.* Decree reversed for dismissal of each action (notice Oct. 26, 1950).

Des. 157,559, L. Beer, Trimming, filed Oct. 24, 1950, D. C., S. D. N. Y., Doc. 61/354, *Beer-Stern Co., Inc.* v. *Monroe Schutz Co., Inc.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 69,530, T. M. 125,542, The Vogue Co., Weekly magazine, filed Oct. 20, 1950, D. C., S. D. N. Y., Doc. 61/327, *The Conde-Nast Publications, Inc.* v. *Vogue School of Fashion Modelling, Inc., et al.*

T. M. 125,542. (See T. M. 69,530.)

T. M. 231,077, Grennan Bakeries, Inc., Cakes and cookies, D. C., N. D. Ill. (Chicago), Doc. 50c915, *Purity Bakeries Corp.* v. *The Cook Coffee Co.* Dismissed without prejudice Sept. 15, 1950.

T. M. 272,548, Royal Canadian Distributing Co., Non-alcoholic, cereal, malt beverages, filed Oct. 18, 1950, D. C., N. D. Ill. (Chicago), Doc. 50c1468, *Royal Canadian Distributing Co.* v. *James Barclay & Co., Ltd.*

NOTICES

Adjudicated Patents

(Ct. Cl.) MacLaren Patent No. 1,959,540, for method and means for increasing the power output of a thermionic tube. Claim 14 *Held* invalid and not infringed. *Remco Electronic* v. *U. S.*, 93 F. Supp. 240.

(Ct. Cl.) Aceves Patent No. 2,113,263, for electrical transmission system. Claims 6, 22, 23, and 27 *Held* invalid and not infringed. *Id.*

(D. C. Md.) Wilson Patent No. 2,294,434, for method and apparatus for forming Venetian blind slats and strip material therefor. Claims 1–10 *Held* valid and infringed. *Acme Steel Co.* v. *Eastern Venetian Blind Co.*, 93 F. Supp. 233; 87 USPQ 45.

(D. C. Md.) Morse et al. Patent No. 2,315,640, for Venetian blind slat. Claims 1 and 2 *Held* valid and infringed. *Id.*

(D. C. Md.) Hunter Patent No. 2,337,047, for method and apparatus for stretching metal strips. Claims 1, 3–6, and 8 *Held* valid and infringed. *Id.*

(D. C. Md.) Wilson Patent No. 2,338,678, for method and apparatus for forming Venetian blind slats. Claims 1–19 *Held* valid and infringed. *Id.*

Disclaimers

2,174,994.—*Harry H. Nelson*, New York, N. Y. VENETIAN BLIND TILTING STRUCTURE. Patent dated Oct. 3, 1939. Disclaimer filed Nov. 17, 1950, by the assignee, *Lorentzen Hardware Mf'g. Corp.*

Hereby enters this disclaimer as follows:

1. Referring to the sentence in the specification (page 1, column 2, lines 13–16), "The word 'cord' as used in this document designates a flexible pulley operating member of any suitable material or form.", hereby disclaims any construction of this sentence, if such be comprehended within its terms, to include within the word "cord" a chain the links or elements of which intermesh with formations on the pulley to prevent slippage of the chain on the pulley.

2. Also disclaims any construction of the claims of the patent, if such be in law comprehended by said claims in their present form, to cover a Venetian blind tilter or a Venetian blind tilting structure in which the word "cord" referred to in the claims is a chain the links or elements of which intermesh with formations on the pulley to prevent slippage of the chain on the pulley.

2,487,202.—*George R. Wadleigh*, Hastings on Hudson, N. Y. SUCTION BOX COVER. Patent dated Nov. 8, 1949. Disclaimer filed Nov. 17, 1950, by the inventor, owner of one-half interest.

Hereby enters this disclaimer to as much of the claim of said patent as is in excess of the following:

In a Fourdrinier machine having an endless wire and a suction box beneath same for the removal of water from the web of paper being formed, the improvement which consists of the combination of the foregoing with a stationary cover for said box, which cover is perforated with suction passages each of which is of substantially uniform and of substantially circular cross section throughout its length and substantially all of which passages have a substantial inclination from the top to bottom of the cover in the direction of travel of the wire.

Interference Notice

Joseph Domko, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Roller Mill Co., New Ulm, Minnesota, for registration of a trade-mark and Registration No. 285,985, issued August 11, 1931, to Joseph Domko, 1223 W. Cornell Street, Chicago, Illinois, and the notice of such declaration sent by registered mail to the said Joseph Domko at the said address having been returned by the post office undeliverable, notice is hereby given that unless Joseph Domko, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

Nov. 29, 1950.

Classification Order No. 84

October 18, 1950

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *Class 30, Cutlery* (Division 11)

Can openers
12 With cutter feeding and/or can gripping means
13 Rotatable disc cutter

In *Class 65, Kitchen and Table Articles* (Division 46)

10 **Compound Tools**

In *Class 140, Wireworking* (Division 14)

141 **Wire cutting**
142 Dies
143 Oscillating apertured cutter
144 Pivoted cutter
145 Reciprocating cutter
146 Rotary cutter

In *Class 188, Brakes* (Division 68)

Wheel
81 One way
81.1 Brake staff stops
82 Hoisting type

CHANGE SUBCLASS TITLES

In *Class 30, Cutlery*, change the title and position of subclasses 14 and 15 to read as follows:

Can openers
14 With bead gripping means
15 Continuous grip

In *Class 35, Education*, change the title of subclass 34 to read:

Teaching
Mathematics
34 Geometry and trigonometry

In *Class 136, Batteries*

in subclass 9, change the title to read:

Secondary
9 Faure electrodes (i. e., pasted type)

in subclass 68, change the title to read:

Secondary
68 Plante electrodes (i. e., non-pasted type)

In *Class 315, Electric Lamp and Discharge Devices, Systems*, change the title of subclass 138 to read:

Polyphase A. C. supply
138 M phase to N phase (e. g., phase splitters)

ESTABLISH SUBCLASSES

In *Class 30, Cutlery* (Division 11)
(S. M. NEWMAN, *Classifier*)

Can openers
With bead gripping means
Continuous grip
15.5 Rotatable disc cutter
Sweep cutter
21.5 With can gripping means

In *Class 188, Brakes* (Division 68)
(J. HAMBY and C. G. SMITH, *Classifiers*)

Wheel
82.1 One way brakes (to follow subclass 80)
82.2 Reversible
82.3 With disabler
82.34 Integral with engager
82.4 With hold out
82.5 Combined or plural diverse types
82.6 Biased flexible band
82.7 Pivoting or flexing detent (e. g., pawl)
82.74 Axially moving
82.77 On rotating member
82.8 Dragged wedging member
82.84 Rolling
82.9 Axially moving

In *Class 273, Amusement Devices, Games* (Division 62)
(E. L. BELL, *Classifier*)

Game accessories
Playing cards
152.1 Structure
152.2 Back indicia
152.3 Transaction representations
152.31 Game
152.4 Suits
152.41 Composite indicia
152.42 Scoring
152.43 Indexing
152.44 Accessory cards
152.5 **Rearranged basic indicia**
152.6 Political and/or geographic
152.7 Equation, word or sentence forming

MISCELLANEOUS CHANGES

On page 34–3, subclasses 211 and 210 should be changed to read as follows:

Apparatus
Houses, kilns and containers
Plural treating units or compartments
210 With gas or vapor circulation for contact with treated material
211 Superposed floors or chambers

On page 178–1, subclass 43.5 should be moved one step of indentation to the right so as to be indented under subclass 2, "Systems,"

On page 179–1, subclass 15.5 should be moved one step of indentation to the right so as to be indented under subclass 1, "Systems," and

subclass 15.6 should be moved one step of indentation to the right so as to be indented under subclass 15.5, and the unnumbered title "Single channel via conversion (e. g., carrier)" at the top of second column should be cancelled and *Systems* substituted therefor.

On page 198–2, subclass 212 should be moved to follow subclass 211 and be coordinate therewith.

On page 280–1, subclass 11.37 should be moved one step to the left so as to be coordinate with subclass 11.1; and subclasses 11.38 and 11.39 should be moved one step of indentation to the left and be indented under subclass 11.37, and

subclass 19 should be moved one step of indentation to the right so as to be indented under subclass 18.

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
30	12	30	16, 18, 20, 21.5
30	13	30	15.5
65	10	7	Various
140	141	30	314
		164	38
		164	41+
140	142	164	18+
140	143	164	40
140	144	30	134, 249, 253
		164	41+
140	145	30	182, 241
		164	47+
140	146	164	60+
188	81+	188	82.1+

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
30	15.5	30	13
30	21.5	30	12, 17
188	82.1+	188	81+
273	152.1–152.7	273	1, 85+, 152, 153+
		35	8+

IN THE DEFINITIONS:

17, Butchering

in subclass 6, add:

Search Class—
99—FOODS AND BEVERAGES, subclass 254+, for apparatus for subjecting foodstuffs, generally meats, to the action of a chemical curing agent, such as brine.

29, Metal Working

in subclass 61, add:

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 111+, for machine mechanisms provided with parts adapted to impart step by step motion to a unidirectionally driven member.

in subclass 65, under "Search Class", insert:

82—TURNING, subclasses 21, 24, and 34, for carriage stop devices for lathes.

in subclass 155.41, under "(3) Note", cancel the reference to Class 29 and insert in numerical order:

29—METAL WORKING, subclass 180+ is the generic subclass for stock composed of metallic or free-metal-containing materials including filaments and wire. Subclass 180 is the generic subclass for wires and filaments formed of a single metal. Subclasses 194+ are the generic subclasses providing for compound wires and filaments having at least two contiguous metal layers or portions (i. e., components) including compound wires and filaments in which all the layers are co-extensive and each has a uniform thickness. Subclasses 191.2 and 191.6 provide for compound wires and filaments which have a significant configuration given either the surface or the interface between the layers or portions. Included in subclass 191.2 are wires and filaments for wires and filaments where one portion or component includes a metal in the form of agglomerated particles (e. g., powder, scrap or cuttings). Subclass 192 provides for filaments or wires formed of agglomerated particles of a single metal or alloy which may contain a non-metallic particulate material. Subclass 193 provides for wires and filaments formed of a single metal or alloy where the wire or filament has a significant surface configuration.

75—METALLURGY, for metallic stock, including wires, strands and filaments defined only by their composition. Metal stock composed of a single metal are in subclass .5. Metal stock composed of an alloy are classified with the appropriate alloy in subclass 122+ of Class 75. The metal stock in subclasses .5 and 122+ may contain a portion of a non-metallic and non-metalloid ingredient (e. g., an oxide) where the added ingredient does not affect the metallic character of the stock or improves the metallic character of the stock. Metallic stock composed of an alloy of a metal and a metalloid (nickel and silicon) are classified as an alloy in subclass 122+. Note that subclass 138 provides for the so-called "hard alloys" (e. g., alloys containing carbides, silicides, etc.).

in subclass 200, under "Search Class," in the reference to Class 254, before the period (.) insert:
and see (1) Note to the class definition of Class 254.

in subclass 230, cancel "(1) Note".

30, Cutlery

in the class definition, cancel "(51) Note" and substitute:
(51) 140—WIREWORKING, particularly subclass 26, for slat cutting and subclass 139+ for wire cutting in combination with straightening.

in subclass 8, in "(1) Note", change "12–15" to *14+*.
abolish the definition of subclasses 12 and 13.
in subclass 14, change "12" to *3*, and cancel "Search this class, subclasses 8 and 9", and substitute:

Search this class, subclass—
8+—and see (1) Note thereto for the line between these subclasses.
272—and see (1) Note thereto for other cutlery tools having blade moving means.

establish the following subclass definitions:
15.5. Cutters under subclass 15 in which the cutting element is of the rotary type.

Search this class, subclass—
347—and see (1) Note thereto for other cutlery tools having rotary blades.

21.5. Cutters under subclass 17 having means to grip a can during the cutting operation.

in subclass 272, in "(1) Note", change "12 and indented subclasses" to *14+, 21.5*,
in subclass 298, under "Search Class", add:
7—COMPOUND TOOLS, subclass 14.5, for combined cutters and thimbles.

in subclass 347, in "(1) Note", change "13" to *15.5*.

33, Geometrical Instruments

in subclass 18, under "Search Class", insert:
97—PLOWS, subclass 228+, for devices for forming surface guide lines in the soil.

in subclass 47, under "Search Classes", insert:
35—EDUCATION, subclass 25, for devices for instructing or training in the use of gun sights.

42, Firearms

in subclass 54, under "Search Class", insert:
102—AMMUNITION AND EXPLOSIVE DEVICES, subclass 86.5, for caps for toy firearms.

43, Fishing, Trapping, and Vermin Destroying

in subclass 42.33, under "Search this class, subclass", cancel the reference to subclass 42.07, and insert:
17.6—for transparent bodies with luminous means.

in subclass 44.99, after "water", insert a period, and cancel "after being submerged therein".
abolish the definitions and search notes of subclasses 49–53 and 54.

54, Harness

in the class definition, after "devices", insert: *in connection with harnessed animals*
and change the period to a comma and add: *generally relating to working animals.*

56, Harvesters

in subclass 167, cancel the definition and substitute:
167. Apparatus under subclass 164 wherein the rake is of the rotating type. Included are devices wherein a standing-grain gathering reel also coacts with the platform to move the fallen grain therefrom after it has been cut.

Search this class, subclass—
219+—for gathering devices acting on the standing grain only.

74, Machine Elements and Mechanisms

in subclass 111, under "Search Class", add in numerical order:
29—METAL WORKING, subclass 61+, for machines for feeding metal stock having intermittently reciprocated gripping mechanisms which grasp the bar of stock, advance to feed the same to a chuck, then release the stock, and return to their first position.
188—BRAKES, subclass 82.1+, for brakes applied to elements rotating relative to stationary elements to prevent retrograde rotation while allowing forward rotation.

in subclass 144, under "Search Class", insert:
188—BRAKES, subclass 82.1+, for brakes applied to elements rotating relative to stationary elements to prevent retrograde rotation while allowing forward rotation.

in subclass 148, under "Search Class", cancel the reference to Class 188, and substitute:
188—BRAKES, subclass 82.3, for one-way brakes which include means to render them inoperative to prevent retrograde motion of a rotating member.

in subclass 505, under "Search Class", cancel the reference to Class 188, and substitute:
188—BRAKES, subclass 82.1+, for brakes applied to elements rotated relative to stationary elements to prevent retrograde rotation while allowing forward rotation.

in subclass 575, under "Search Class", in the reference to Class 188, change "81+" to *82.1+*.

82, Turning

in subclass 34, add:

Search Class—
29—METAL WORKING, subclass 65, and see the notes thereto for carriage stop devices.

102, Ammunition and Explosive Devices

in subclass 86.5, insert:
(2) Note.—Ammunition for toy firearms is included.

123, Internal Combustion Engines

in subclass 41.58, under "Search this class, subclass", add in numerical order:
41.7—for cowlings surrounding the engine cylinders.

131, Tobacco

in subclass 122, cancel "(4) Note", and substitute:

Search Class—
146—VEGETABLE AND MEAT CUTTERS AND COMMINUTORS, subclass 55, for apparatus, and subclasses 237 and 238, for processes for stemming fruit.

134, Cleaning and Liquid Contact with Solids

in the class definition in "(5) Note" under "Search Class", in the reference to Class 41, add:
Class 41 has bright dipping of metals except where it is stated that no chemical reaction of the base metal takes place.

136, Batteries

in the class definition under "Search Class", in the reference to Class 175, cancel "177, Electric Signaling, subclass 311", and insert in numerical order:
177—ELECTRIC SIGNALING, subclass 311.

140, Wireworking

in the class definition, under "(3)", cancel "cutting", and add:

Search Class—
30—CUTLERY, for cutting implements per se.
164—CUTTING AND PUNCHING SHEETS AND BARS, for cutting machines per se.

in subclass 130, under "Search Class", in the reference to Class 74, after "subclass", change 11 to *111*.
abolish the definitions of subclasses 141 to 146 inclusive.

144, Woodworking

in subclass 125, cancel:

Search Class—
144—WOODWORKING, subclass 43.

and substitute:

Search this class, subclass 43.

146, Vegetable and Meat Cutters and Comminutors

in the class definition, under "(3) Note", cancel the reference to 140, Wireworking, and substitute:
140—WIREWORKING, subclass 123.6, for wire cutting combined with stretching implements, and subclass 139+, for wire cutting in combination with straightening.

in subclass 55, add:

Search Class—
131—TOBACCO, subclass 122+, for apparatus for removing stems from tobacco leaves.

in subclass 238, add:

Search Class—
131—TOBACCO, subclass 122+, for processes of removing stems from tobacco leaves.

154, Laminated Fabric and Analogous Manufactures

in subclass 2.21, "(17) Note", under "Search Class", in the reference to Class 140, Wireworking, cancel "subclass 141+, for wire cutting", and add in numerical order:
30—CUTLERY, subclass 165+, for wire cutting tools and implements.
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 17+, the generic place for wire cutting per se.

157, Wheelwright-Machines

the definitions in this class have been revised and appear in Classification Bulletin No. 277.

158, Liquid and Gaseous Fuel Burners

the definitions in this class have been revised and appear in Classification Bulletin No. 278.

159, Concentrating Evaporators

the definitions in this class have been revised and appear in Classification Bulletin No. 279.

161, Time-Controlling Mechanism

the definitions in this class have been revised and appear in Classification Bulletin No. 280.

163, Needle and Pin Making

the definitions in this class have been revised and appear in Classification Bulletin No. 281.

164, Cutting and Punching Sheets and Bars

the definitions in this class have been revised and appear in Classification Bulletin No. 282.
in the class definition, cancel paragraphs 2 and 3 and substitute:
(1) Note.—This class includes the cutting of wire or wire-like strips.
(2) Note.—Machines other than die cutting machines especially designed for work on shoes are found in the appropriate subclasses of Class 12, BOOT AND SHOE MAKING. Die cutting machines are found in this class (164) subclasses 18+.

under "Search Class", insert:
12—BOOT AND SHOE MAKING, and see (2) Note above.
69—LEATHER MANUFACTURES, subclasses 9+, for machines for the splitting and skiving of leather.

in subclass 17, add:
(1) Note.—See (1) Note under the class definition.

in subclass 40, add:
(1) Note.—**Machines having** but a single apertured plate or disk cooperating with a cutter of the type provided for in subclass 34 or other indented subclasses are not included in this subclass, being classified in accordance with the type of cooperating cutter.

166, Wells

the definitions in this class have been revised and appear in Classification Bulletin No. 283.

167, Medicines, Poisons, and Cosmetics

the definitions in this class have been revised and appear in Classification Bulletin No. 284.

168, Farriery

the definitions in this class have been revised and appear in Classification Bulletin No. 285.

169, Fire Extinguishers

the definitions in this class have been revised and appear in Classification Bulletin No. 286.

170, Motors, Fluid Current

the definitions in this class have been revised and appear in Classification Bulletin No. 287.

174, Electricity, Conductors and Insulators

the definitions in this class have been revised and appear in Classification Bulletin No. 288.

178, Telegraphy

in subclass 43.5, cancel the words "the class definition" and substitute *subclass 2*.

179, Telephony

in subclass 15.5, cancel the words "the class definition" and substitute *subclass 1*.

182, Sewerage

the definitions in this class have been revised and appear in Classification Bulletin No. 290.

184, Lubrication

the definitions in this class have been revised and appear in Classification Bulletin No. 291.

186, Store Service

the definitions in this class have been revised and appear in Classification Bulletin No. 292.

187, Elevators

the definitions in this class have been revised and appear in Classification Bulletin No. 293.

188, Brakes

abolish the definition and notes of subclasses 81, 81.1, and 82.
establish the following subclass definitions:
82.1. Brakes applied to elements rotating relative to stationary elements to prevent retrograde rotation while allowing forward rotation.
(1) Note.—These devices are often known as "automatic" or "safety" brakes. They may be considered "automatic" in the sense that their basic structure is such that they necessarily react to apply braking force on rotation in one direction.
(2) Note.—The rotating element may be included by name as "hoisting drum", "wheel", etc.
(3) Note.—For machines to which the one-way brake is applied, see the appropriate art class. See (2) Note above.

Search this class, subclass—
30—for one-way brakes applied to the wheels of a non-railway vehicle to prevent retrograde movement.
61—for one-way brakes for railway vehicles to prevent retrograde movement.
67—for one-way brakes for reciprocating rod-like members.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 111+, for mechanisms provided with parts adapted to impart step by step motion to a unidirectionally driven member, particularly subclass 144+, for grip units and features, and subclass 575+, for the structural detail of a pawl or ratchet.
160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, subclass 291+, for flexible closures in which the material is accumulated in the form of a roll and which have means retarding or stopping the rotation of the roll or for holding the roll to prevent undesired rotation.
192—CLUTCHES AND POWER-STOP CONTROL, subclass 1+, for mechanisms for joint control of motor and brake, subclass 7+, for devices for the joint control of power transmission and brake in which the application of the brake is automatic in that it requires no separate control operation, subclass 41+, for clutches which engage in one direction of rotation without manipulation, subclass 51, for multiple associated clutches instrumental in accomplishing the reversal of rotation, and subclass 116.5+, for stop mechanisms.
242—WINDING AND REELING, appropriate subclasses, for winding or reeling devices employing one-way brakes, particularly subclass 107+, for the type in which a reel is rotated by a spring.
254—PUSHING AND PULLING IMPLEMENTS, subclass 135+, for cable hauling apparatus not elsewhere classifiable. The term cable includes flexible hauling or hoisting elements such as rope, chain and wire or flat bands. Where no more drum structure is included than relates to the brake device, classification is in Class 188, BRAKES.

82.2. Devices under subclass 82.1 in which the direction in which retrograde rotation is prevented is selectable.

Search this class, subclass—
82.3—for one-way brakes including means for rendering the brake inoperative to prevent retrograde rotation.

Search Class—
192—CLUTCHES AND POWER-STOP CONTROL, subclass 43+, for clutches which engage in one direction of rotation without manipulation and which are adjustable to drive in either direction.

82.3. Devices under subclass 82.1 which include means by which a one-way brake may be rendered inoperative to prevent retrograde motion of the rotating element.

(1) Note.—The reversible one-way brakes in this class (188), subclass 82.2, include means by which one of two one-way brakes is rendered inoperative while the other is in operating position.

Search this class, subclass—
82.2—see (1) Note above.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 148+, for grip units which form parts of more complex intermittent grip mechanisms and which include means for releasing a gripper from the driven member.
192—CLUTCHES AND POWER-STOP CONTROL, subclass 32+, for clutches, the action of which is initiated by manipulation upon which the engagement is completed automatically, and subclass 41, for one-way clutches that may be made operative or inoperative by manipulation.

82.34. Devices under subclass 82.3 in which a disabling device is integral with the element applied to the surface of the rotating element to brake it.

82.4. Devices under subclass 82.1 having means to withhold the element applied to the surface of the rotating element for braking from contact with the rotating element during forward rotation while not incapacitating the braking element from preventing retrograde rotation.

(1) Note.—This feature is usually employed in pawl and ratchet wheel type one-way brakes to hold the pawl from rattling on the ratchet wheel during forward rotation.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 576, for pawls which are held out of engagement with a ratchet wheel during rotation of the wheel in forward direction and moved into engagement with said ratchet wheel on retrograde rotation.

82.5. Devices under subclass 82.1 in which a one-way brake is claimed in combination with elements other than or in addition to a stationary element, an element rotating relative thereto, and means permitting rotation in the forward direction and reacting on the stationary element to brake the rotating element when rotation is in the retrograde direction; or in which more than one type of one-way brake is claimed.

(1) Note.—This subclass includes, for example, devices which act as a one-way brake and have automatic control as, for instance, having means responsive to the speed of retrograde rotation of the rotating element to augment the action of the brake.
(2) Note.—This subclass also includes one-way brakes in combination with an additional brake such as a "service" brake. Where the additional brake and the one-way brake are interconnected with a disabling means for the one-way brake, search this class, subclass 82.3+.
(3) Note.—See the notes to the definition of this class, subclass 82.1, as to combinations of one-way brakes with other devices located in other classes.

Search this class, subclass—
82.1—see (3) Note above.
82.3+—see (2) Note above.

82.6. Devices under subclass 82.1 in which a strip continuously under longitudinal tension flexes on retrograde rotation of the shaft to apply braking force.

Search this class, subclass—
77—for flexible brakes moving transversely to and toward the axis and partially or wholly encircling the wheel.

Search Class—
192—CLUTCHES AND POWER-STOP CONTROL, subclass 80+, for transversely engaged exterior clutches in which the exterior transversely moving member is a flexible strap or band.

82.7. Devices under subclass 82.1 in which a tongue-like element is mounted to swing or bend into braking position upon retrograde motion of the rotating member.

Search this class, subclass—
82.4—for this subject matter in combination with means which during the forward rotation of the rotating member acts to hold the pivoted member out of contact with the surface of the rotating member usually to avoid rattling of the pawl on ratchet wheel.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 575+, for machine elements limited to the structural details of a pawl or ratchet, and see the notes thereto for the classification of combinations including pawls.
160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, subclass 300+, for flexible panels which are accumulated in the form of a roll and which have a brake or stop in the form of a pawl acting on the roll supporting means, or some part carried thereby and rotated therewith for the purpose of retarding or stopping the rotation of the roll, or for holding the roll to prevent undesired rotation.
192—CLUTCHES AND POWER-STOP CONTROL, subclass 43.1, for one-way engaging reversible automatic clutches in which the engaging elements are pivoted pawls, and subclass 45.1, for one-way clutches in which the engaging element is a wedging pawl or block.

82.74. Devices under subclass 82.7 in which the swing or bending of the detent member is in a plane containing or parallel to the axis about which the braked element rotates.

Search this class, subclass—
82.9—for other one-way brakes for rotating elements in which the braking element moves axially of the axis of rotation.

82.77. Devices under subclass 82.7 in which the swinging element is carried by the rotating member.

82.8. Devices under subclass 82.1 in which rotation of the rotating element in the retrograde direction forces a member into jamming position between converging surfaces, one of which is the rotating element, to cause a braking.

Search Class—
192—CLUTCHES AND POWER-STOP CONTROL, subclass 45.1, for one-way clutches in which the engaging element is a wedging pawl or block.

82.84. Devices under subclass 82.8 in which the engaging member is circular in cross-section and rolls into position to exert the braking force.

Search Class—
160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, subclass 297, for flexible panels which are accumulated in the form of a roll and which employ a brake or stop in the form of a ball or roller operating on the roll supporting means or some part secured to and rotating with roller.
192—CLUTCHES AND POWER-STOP CONTROL, subclass 45, for one-way engaging automatic clutches in which the engaging element is a ball or roller and see the notes thereto for other ball and roller engaging clutches.

82.9. Devices under subclass 82.1 in which the engaging element moves along the axis of rotation of the element braked to exert the braking force.

Search this class, subclass—
82.74—for one-way brakes for rotating elements in which the braking element is a pivoted or flexing detent swinging axially of the axis of rotation.

189, Metallic Building Structures

the definitions in this class have been revised and appear in Classification Bulletin No. 294.

190, Baggage

the definitions in this class have been revised and appear in Classification Bulletin No. 295.

191, Electricity, Transmission to Vehicles

the definitions in this class have been revised and appear in Classification Bulletin No. 296.

192, Clutches and Power-Stop Control

in subclass 27, add:

Search this class, subclass—
45—for ball and roller one-way engaging automatic clutches and see the notes thereto for other ball and roller clutches.

in subclass 32, add:

Search this class, subclass—
47—for one-way engaging automatic clutches that may be made operative or inoperative by manipulation.

Search Class—
188—BRAKES, subclass 82.3, for one-way brakes which include means whereby the brake may be rendered inoperative to prevent retrograde motion of a rotating element.

in subclass 38, add:

Search this class, subclass—
45—for one-way engaging automatic clutches in which the engaging element is a ball or roller and see the notes thereto for other ball or roller clutches.

in subclass 41, under "Search Class", add:

188—BRAKES, subclass 82.1+, for brakes applied to elements rotating relative to stationary elements to prevent retrograde rotation while allowing forward rotation.

in subclass 43, add:

Search Class—
188—BRAKES, subclass 82.2, for one-way brakes in which the direction in which retrograde rotation is prevented is selectable.

in subclass 43.1, under "Search Class", add:

188—BRAKES, subclass 82.7, for one-way brakes in which there is a pivoting or flexing detent.

in subclass 44, add:

Search this class, subclass—
45—for ball or roller one-way engaging clutches and see the notes thereto for other clutches with a ball or roller engaging element.

in subclass 45, under the definition, insert:

Search this class, subclass—
27—for latch operated clutches in which the transmitting member is a ball or roller.
38—for one-way automatic manually controlled clutches in which the clutching element is a ball or roller.
44—for one-way clutches in which the clutching element is a ball or roller.

and under "Search Class", add:

188—BRAKES, subclass 82.84, for one-way brakes in which the engaging element rolls into jamming position between converging surfaces one of which is the rotating element to exert a braking force.

under subclass 45.1, add:

Search Class—
188—BRAKES, subclass 82.7, for one-way brakes employing a pivoting or flexing detent, and subclass 82.8 for one-way brakes in which retrograde rotation of a rotating element forces a member in jamming position between converging surfaces one of which is the rotating element to cause a braking.

in subclass 47, add:

Search this class, subclass—
32+—for automatic clutches in which the action is initiated by manipulation upon which the engagement is completed automatically.

Search Class—
188—BRAKES, subclass 82.3, for one-way brakes with means by which it may be rendered inoperative to prevent retrograde motion of rotating element.

in subclass 116.5, under "Search Class", insert:

188—BRAKES, subclass 82.1+, for one-way brakes applied to elements rotating relative to stationary element to prevent retrograde rotation and see the notes thereto for other one-way brakes.

207, Plastic Metal Working

the definitions in this class have been revised and appear in Classification Bulletin No. 289.

222, Dispensing

in the class definition, section 12.5, 4th paragraph, after "features", change the colon to a comma, and add: *see the search classes below.*
and under "Search Class", insert:

30—CUTLERY, subclass 125, for hand manipulable shakers forming the handle of a cutlery implement.

in section 24, in the reference to Class 30, Cutlery, before "13" insert *12.5,*
under class 241, add: *See also section 12.5 of the class definition of Class 222.*
and under class 259 after "sec. 4, 9," insert *12.5,*
in subclass 191, under "Search Class", in the reference to Class 16, after "110+," insert: *especially subclass 110.5 for receptacles combined with handles,*
and add in numerical order:

30—CUTLERY, subclass 125, for cutlery implements having salt and pepper shakers forming or contained in the handles.

242, Winding and Reeling

in subclass 19, under "(2) Search Class", cancel the reference to Class 140, Wireworking, and add:

164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 17+, for wire cutting devices.

254, Pushing and Pulling Implements

in the class definition, insert:

(1) Note.—Pushing or pulling implements of the jack or crow-bar type, including those having special engaging features, which engage between elements of a vehicle spring, or between the spring and the vehicle frame or body, and which do *not* act between two parts to move them into assembled or disassembled position, will be classified in Class 254, e. g., those devices which act between the shackle bolt and its bearing to assemble or disassemble the bolt to or from its bearing will be found in Class 29, METAL WORKING, subclass 200+.

and under "Search Class", in the reference to Class 29, before the period insert *and see (1) Note supra.*

273, Amusement Devices, Games

in subclass 152, cancel the definition and substitute:

152. Subject matter under subclass 148 consisting of flat, stiff, usually rectangular, pieces of sheet material, provided with playing indicia.

Search Class—
35—EDUCATION, particularly subclasses 8+ and 69+, for cards provided with indicia which is solely for educational purposes.

establish the following subclass definitions:

152.1. Playing cards under subclass 152 having, in addition to indicia, some unusual physical shape or conformation, or made of some particular material.

Search Class—
106—COMPOSITIONS, COATING OR PLASTIC, appropriate subclasses, for coating and plastic compositions per se used in making cards, with or without some general indicia.
117—COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, for coated bases including cards, with or without some general indicia.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for laminated fabrics of more general utility including cards, with or without some general indicia.

152.2. Playing cards under subclass 152 in which the backs of the cards are provided with indicia other than mere ornamentation uniform on all the cards.

152.3. Playing cards under subclass 152 in which the individual cards are intended to represent elements and/or plays or transactions that are normally used or occur in some form of human endeavor.

(1) Note.—The elements as used must be used in the same manner as in the form of human endeavor which is simulated.

152.31. Playing cards under subclass 152.3 in which the transactions represented are actions which normally occur in an athletic contest or other form of game.

Search this class, subclass—
85+—for other types of games played in simulation of real contests.

152.4. Playing cards under subclass 152 which are grouped into at least two sets of an equal number of cards, each set having a set designation and at least two card value designations, all of the card value designations being repeated in all the sets.

152.41. Suits of playing cards under subclass 152.4 in which the cards are provided with indicia in addition to the suit and card designations, except mere multiple equivalent suit or card designations which do not vary the suit or card arrangement or value.

152.42. Suits of playing cards under subclass 152.41 in which the added indicia is used for scoring purposes.

152.43. Suits of playing cards under subclass 152.4 in which the individual cards are provided with means by which the suit and value designation can be readily distinguished while held in the hand without exposing all or a relatively large portion of the face of the card, or by which they can be readily sorted.

Search this class, subclass—
152.1—for indexing or sorting by perforations.
152.2—for sorting indicia on the back surface.

152.44. Suits of playing cards under subclass 152.4 supplemented by additional cards which are not related to any of the suits.

152.5. Playing cards under subclass 152 in which the individual cards are divided into one or more sets, the basic indicia on all the cards of one set being the same but with different portions of that indicia being accentuated or rearranged on the different cards.

152.6. Playing cards under subclass 152 which are provided with indicia that relates to politics or geography.

152.7. Playing cards under subclass 152 provided with symbols, letters, portions of words, or words by means of which two or more cards are used to make equations, words or sentences.

Search Class—

35—EDUCATION, subclasses 70 and 71, for blocks and cards provided with educational indicia in the form of numbers, letters and words.

280, Land Vehicles

in subclass 11.37, in the definition, after "Devices", insert *under the class definition*

in subclass 19, cancel the definition and substitute:

19. Sleds under subclass 18 having contact with the supporting surface along substantially their entire width.

294, Handling, Hand and Hoist Line Implements

in the class definition, under "Search Class", in the reference to Class 65, change "subclasses 10 and 12" to *subclass 12*.

in subclass 7, cancel "Search Class" and the reference to Class 65.

308, Machine Elements, Bearings and Guides

in subclass 243, under "Search Class", cancel the reference to Class 252, and add:

252—COMPOSITIONS, particularly, subclasses 13 and 14, for lubricants in fibrous carriers.

285—JOINT PACKINGS, appropriate subclasses, for packing material which can also serve as a lubricant reservoir or feed material.

312, Supports, Cabinet Structures

the definitions in this class have been revised and appear in Classification Bulletin No. 389.

315, Electric Lamp and Discharge Devices, Systems

in subclass 129, cancel "(2) Note", and substitute:

(2) Note.—This and the indented subclasses do not include systems where a lamp or gas or vapor discharge device is the sole signal or indicator means to show some condition in system except where the casing or mounting for the signal lamp or discharge device which is used as a signal is claimed. Patents excluded are cross-referenced to this or the indented subclasses and are classified either as a plural load device system or in subclass 88+ where the signal lamp or discharge device is operative only on failure of a first operated lamp or discharge device to operate properly. See the reference to subclass 88+ under "Search This Class, Subclass", below. Where one of the lamps or discharge devices is claimed broadly as a signaling means, the patent is placed in this or the indented subclasses and cross-referenced to the other appropriate subclasses in this class.

in subclass 137, cancel the definition, "(1) Note" and "(2) Note", and substitute:

137. Systems under the class definition provided with (1) means for supplying electrical energy from a source of polyphase alternating currents to one or more load devices, or (2) a source of polyphase alternating current and means for converting the polyphase alternating currents to current of another character which is supplied to one or more load devices.

(1) Note.—In the systems of (1) above, the source of current may be either a direct or single phase alternating current, the system including means to convert the current to polyphase alternating currents which are supplied to one or more load devices.

(2) Note.—In the system of (2) above, the polyphase alternating currents may be converted to either single phase alternating current or direct current which is supplied to one or more devices.

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

Classification Order No. 85

The following transfer is hereby ordered to take effect Monday, October 30, 1950:

Class 116, Signals and Indicators
from Division 34 to Division 42.

A. W. CROCKER,
Oct. 25, 1950. *Executive Primary Examiner.*

Classification Order No. 86

The following transfers from C. E. D. to Division 33, are hereby ordered to take effect Monday, November 6, 1950:

Class 61, Hydraulic and Earth Engineering,
Class 72, Masonry and Concrete Structures,
Class 94, Roads and Pavements.

A. W. CROCKER,
Oct. 30, 1950. *Executive Primary Examiner.*

Classification Order No. 87

The following transfer from Division 22 to Division 9 is hereby ordered to take effect on December 4, 1950:

Class 253, Motors, Fluid.

A. W. CROCKER,
Nov. 24, 1950. *Executive Primary Examiner.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Petrolite Corporation, Ltd., has placed 290 patents on the Register, in addition to the more than 400 registered during 1946. Non-exclusive licenses are available on reasonable terms.

Patents in this issue include Reg. Nos. 39,025 through 39,152. The remaining 162 patents will be included in the OFFICIAL GAZETTE, Dec. 26.

The following 46 patents relate to the resolution, demulsification, breaking, or treatment of petroleum emulsions, cut oil, roily oil, bottom settlings, basic sediment, and the like, by the use of the chemicals set forth in the patents. Groups 28—34; 29—11. Applications for licenses in this group should be addressed to: Petrolite Corporation, Ltd., 937 Pacific Ave., Webster Groves 19, Mo.

Pat. 1,990,293. Process for the Treatment of Petroleum Emulsions. Feb. 5, 1935. Reg. No. 39,025.

Pat. 2,307,494. Process for Breaking Petroleum Emulsions. Jan. 5, 1943. Reg. No. 39,026.

Pat. 2,307,495. Process for Breaking Petroleum Emulsions. Jan. 5, 1943. Reg. No. 39,027.

Pat. 2,351,018. Process for Breaking Petroleum Emulsions. June 13, 1944. Reg. No. 39,028.

Pat. 2,400,394. Process for Breaking Petroleum Emulsions. May 14, 1946. Reg. No. 39,029.

Pat. 2,417,738. Process for Breaking Petroleum Emulsions. Mar. 18, 1947. Reg. No. 39,030.

Pat. 2,417,739. Process for Breaking Petroleum Emulsions. Mar. 18, 1947. Reg. No. 39,031.

Pat. 2,417,740. Process for Breaking Petroleum Emulsions. Mar. 18, 1947. Reg. No. 39,032.

Pat. 2,422,177. Process for Breaking Petroleum Emulsions. June 17, 1947. Reg. No. 39,033.

Pat. 2,422,822. Process for Breaking Petroleum Emulsions. June 24, 1947. Reg. No. 39,034.

Pat. 2,423,364. Process for Breaking Petroleum Emulsions. July 1, 1947. Reg. No. 39,035.

Pat. 2,429,996. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,036.

Pat. 2,429,997. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,037.

Pat. 2,429,998. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,038.

Pat. 2,429,999. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,039.

Pat. 2,430,000. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,040.

Pat. 2,430,001. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,041.

Pat. 2,430,002. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,042.

Pat. 2,430,003. Process for Breaking Petroleum Emulsions. Nov. 4, 1947. Reg. No. 39,043.

Pat. 2,442,073. Process for Breaking Petroleum Emulsions. May 25, 1948. Reg. No. 39,044.

Pat. 2,442,074. Process for Breaking Petroleum Emulsions. May 25, 1948. Reg. No. 39,045.

Pat. 2,442,075. Process for Breaking Petroleum Emulsions. May 25, 1948. Reg. No. 39,046.

Pat. 2,442,076. Process for Breaking Petroleum Emulsions. May 25, 1948. Reg. No. 39,047.

Pat. 2,442,077. Process for Breaking Petroleum Emulsions. May 25, 1948. Reg. No. 39,048.

Pat. 2,454,435. Process for Breaking Petroleum Emulsions. Nov. 23, 1948. Reg. No. 39,049.

Pat. 2,468,180. Process for Breaking Petroleum Emulsions. Apr. 26, 1949. Reg. No. 39,050.

Pat. 2,468,181. Process for Breaking Petroleum Emulsions. Apr. 26, 1949. Reg. No. 39,051.

Pat. 2,470,808. Process for Breaking Petroleum Emulsions. May 24, 1949. Reg. No. 39,052.

Pat. 2,472,573. Process for Breaking Petroleum Emulsions. June 7, 1949. Reg. No. 39,053.

Pat. 2,472,574. Process for Breaking Petroleum Emulsions. June 7, 1949. Reg. No. 39,054.

Pat. 2,498,656. Process for Breaking Petroleum Emulsions. Feb. 28, 1950. Reg. No. 39,055.

Pat. 2,498,657. Process for Breaking Petroleum Emulsions. Feb. 28, 1950. Reg. No. 39,056.

Pat. 2,498,658. Process for Breaking Petroleum Emulsions. Feb. 28, 1950. Reg. No. 39,057.

Pat. 2,499,365. Chemical Manufacture. Mar. 7, 1950. Reg. No. 39,058.

Pat. 2,499,366. Chemical Manufacture. Mar. 7, 1950. Reg. No. 39,059.

Pat. 2,499,367. Chemical Manufacture. Mar. 7, 1950. Reg. No. 39,060.

Pat. 2,499,368. Chemical Manufacture. Mar. 7, 1950. Reg. No. 39,061.

Pat. 2,499,369. Process for Breaking Petroleum Emulsions. Mar. 7, 1950. Reg. No. 39,062.

Pat. 2,499,370. Process for Breaking Petroleum Emulsions. Mar. 7, 1950. Reg. No. 39,063.

Pat. 2,500,349. Process for Breaking Petroleum Emulsions. Mar. 14, 1950. Reg. No. 39,064.

Pat. 2,501,015. Process for Breaking Petroleum Emulsions. Mar. 21, 1950. Reg. No. 39,065.

Pat. 2,505,824. Process for Breaking Petroleum Emulsions. May 2, 1950. Reg. No. 39,066.

Pat. 2,505,825. Process for Breaking Petroleum Emulsions. May 2, 1950. Reg. No. 39,067.

Pat. 2,507,560. Process for Breaking Petroleum Emulsions. May 16, 1950. Reg. No. 39,068.

Pat. 2,507,910. Process for Breaking Petroleum Emulsions. May 16, 1950. Reg. No. 39,069.

Pat. 2,518,668. Process for Breaking Petroleum Emulsions. Aug. 15, 1950. Reg. No. 39,070.

The following 31 patents relate to the electrical dehydration or the electrical desalting of petroleum oils. Groups 28—34; 29—11; 35—32; 36—13. Applications for licenses in this group should be addressed to: Petrolite Corporation, Ltd., 1390 East Burnett St., Long Beach 6, Calif.

Pat. 1,947,704. Method of and Apparatus for Resolving Loose Emulsions. Feb. 20, 1934. Reg. No. 39,071.

Pat. 1,947,709. Wetted Septum Separator and Method. Feb. 20, 1934. Reg. No. 39,072.

Pat. 1,978,426. Apparatus for Electrical Treatment of Fluids. Oct. 30, 1934. Reg. No. 39,073.

Pat. 2,000,017. Electrical Cleaning of Fluids. May 7, 1935. Reg. No. 39,074.

Pat. 2,033,129. Method of and Apparatus for Treating Petroleum. Mar. 10, 1936. Reg. No. 39,075.

Pat. 2,033,167. Electric Dehydrator. Mar. 10, 1936. Reg. No. 39,076.

Pat. 2,033,418. Electric Treater for Emulsions. Mar. 10, 1936. Reg. No. 39,077.

Pat. 2,033,419. Electric Treater for Emulsions. Mar. 10, 1936. Reg. No. 39,078.

Pat. 2,033,420. Method and Apparatus for Electrically Treating Emulsions. Mar. 10, 1936. Reg. No. 39,079.

Pat. 2,033,593. Electric Dehydrator. Mar. 10, 1936. Reg. No. 39,080.

Pat. 2,108,259. Dehydration System. Feb. 15, 1938. Reg. No. 39,081.

Pat. 2,136,469. Control System for Electric Dehydrators. Nov. 15, 1938. Reg. No. 39,082.

Pat. 2,216,724. Indication and Control Apparatus. Oct. 8, 1940. Reg. No. 39,083.

Pat. 2,277,513. Electric Apparatus for Treating Emulsions. Mar. 24, 1942. Reg. No. 39,084.

Pat. 2,309,228. Fluid Indicating and Control Means. Jan. 26, 1943. Reg. No. 39,085.

Pat. 2,320,059. Apparatus for Treating Oil. May 25, 1943. Reg. No. 39,086.

Pat. 2,370,210. Liquid-Flow Indicating and Metering System. Feb. 27, 1945. Reg. No. 39,087.

Pat. 2,386,941. Apparatus for Desalting Oil. Oct. 16, 1945. Reg. No. 39,088.

Pat. 2,393,328. Emulsion Introducing System for Electric Emulsion Breakers. Jan. 22, 1946. Reg. No. 39,089.

Pat. 2,400,975. Apparatus for Electrically Resolving Water-in-Oil Emulsions. May 28, 1946. Reg. No. 39,090.

Pat. 2,404,405. Method for Removing Impurities From Mineral Oils. July 23, 1946. Reg. No. 39,091.

Pat. 2,412,791. Method for Purifying Mineral Oils. Dec. 17, 1946. Reg. No. 39,092.

Pat. 2,417,637. Process for Removing Impurities From Oils. Mar. 18, 1947. Reg. No. 39,093.

Pat. 2,425,354. Electric Treater. Aug. 5, 1947. Reg. No. 39,094.

Pat. 2,425,355. Electrical Apparatus for Separating the Constituents of an Oil-Water System. Aug. 5, 1947. Reg. No. 39,095.

Pat. 2,432,263. Apparatus for Introducing High Voltages Into Containers. Dec. 9, 1947. Reg. No. 39,096.

Pat. 2,443,646. Fluid Distribution System. June 22, 1948. Reg. No. 39,097.

Pat. 2,447,529. Method for Removing Impurities From Hydrocarbons. Aug. 24, 1948. Reg. No. 39,098.

Pat. 2,447,530. Process for Purifying Oils. Aug. 24, 1948. Reg. No. 39,099.

Pat. 2,453,416. Fluid Distribution System. Nov. 9, 1948. Reg. No. 39,100.

Pat. 2,513,386. Electric Treater. July 4, 1950. Reg. No. 39,101.

The following 7 patents relate to the resolution, demulsification, breaking, or treatment of emulsions of the oil-in-water class, including emulsions of petroleum oil in water, also known as inverse phase emulsions, reverse emulsions, oily water, ballast water emulsions, and the like. Groups 28—34; 29—11. Applications for license should be addressed to: Petrolite Corporation, Ltd., 937 Pacific Ave., Webster Groves 19, Mo.

Pat. 2,047,989. Method for Separating Emulsions. July 21, 1936. Reg. No. 39,102.

Pat. 2,102,051. Method of Separating Emulsions of the Oil-in-Water Type. Dec. 14, 1937. Reg. No. 39,103.

Pat. 2,159,312. Process for Breaking Oil-in-Water Type Petroleum Emulsions. May 23, 1939. Reg. No. 39,104.

Pat. 2,159,313. Process for Breaking Oil-in-Water Type Petroleum Emulsions. May 23, 1939. Reg. No. 39,105.

Pat. 2,260,757. Composition and Process for Treating Emulsions. Oct. 28, 1941. Reg. No. 39,106.

Re. 22,963. Process for Resolving Oil-in-Water Emulsions. Jan. 13, 1948. (Original Pat. No. 2,407,895, Sept. 17, 1946.) Reg. No. 39,107.

Pat. 2,470,829. Processes for Breaking Oil-in-Water Emulsions. May 24, 1949. Reg. No. 39,108.

The following 4 patents relate to the prevention of corrosion of metals, particularly ferrous metals. Groups 28—34—89; 29—11. Applications for license should be addressed to: Petrolite Corporation, Ltd., 937 Pacific Ave., Webster Groves 19, Mo.

Pat. 1,966,711. Prevention of Corrosion. July 17, 1934. Reg. No. 39,109.

Pat. 2,466,517. Processes for Preventing Corrosion and Corrosion Inhibitors. Apr. 5, 1949. Reg. No. 39,110.

Pat. 2,466,530. Process for Preventing Corrosion and Corrosion Inhibitor. Apr. 5, 1949. Reg. No. 39,111.

Re. 23,227. Processes for Preventing Corrosion and Corrosion Inhibitors. May 9, 1950. (Original Pat. No. 2,468,163, Apr. 26, 1949.) Reg. No. 39,112.

The following 40 patents relate to a number of arts including scale prevention, foam prevention, removal of mud sheaths from well bores, removal of organic deposits from oil wells and lines, break induction in doctor treating of gasoline, ore flotation, acidizing of oil wells, penicillin manufacture, etc. Groups 28—31—34—89; 29—11; 35—32. Applications for licenses should be addressed to: Petrolite Corporation, Ltd., 937 Pacific Ave., Webster Groves 19, Mo.

Pat. 2,135,589. Process for Removing Mud Sheaths From Oil Wells. Nov. 8, 1938. Reg. No. 39,113.

Pat. 2,135,909. Process for Removing Mud Sheaths From Geological Formations. Nov. 8, 1938. Reg. No. 39,114.

Pat. 2,208,505. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,115.

Pat. 2,208,506. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,116.

Pat. 2,208,507. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,117.

Pat. 2,208,508. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,118.

Pat. 2,208,509. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,119.

Pat. 2,208,510. Process for Sweetening Hydrocarbon Oils. July 16, 1940. Reg. No. 39,120.

Pat. 2,226,119. Flooding Process for Recovering Oil From Subterranean Oil-Bearing Strata. Dec. 24, 1940. Reg. No. 39,121.

Pat. 2,233,381. Flooding Process for Recovering Oil From Subterranean Oil-Bearing Strata. Feb. 25, 1941. Reg. No. 39,122.

Pat. 2,233,382. Flooding Process for Recovering Oil From Subterranean Oil-Bearing Strata. Feb. 25, 1941. Reg. No. 39,123.

Pat. 2,233,383. Composition of Matter and a Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Feb. 25, 1941. Reg. No. 39,124.

Pat. 2,251,393. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Aug. 5, 1941. Reg. No. 39,125.

Pat. 2,262,737. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,126.

Pat. 2,262,738. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,127.

Pat. 2,262,739. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,128.

Pat. 2,262,740. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,129.

Pat. 2,262,741. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,130.

Pat. 2,262,742. Composition of Matter and Process for Preventing Water-in-Oil Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Nov. 11, 1941. Reg. No. 39,131.

Pat. 2,275,138. Process of Flotation for Sylvinite Ores. Mar. 3, 1942. Reg. No. 39,132.

Pat. 2,278,838. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Apr. 7, 1942. Reg. No. 39,133.

Pat. 2,281,347. Sweetening Hydrocarbon Oils. Apr. 28, 1942. Reg. No. 39,134.

Pat. 2,281,419. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Apr. 28, 1942. Reg. No. 39,135.

Pat. 2,290,413. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. July 21, 1942. Reg. No. 39,136.

Pat. 2,290,414. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. July 21, 1942. Reg. No. 39,137.

Pat. 2,290,415. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. July 21, 1942. Reg. No. 39,138.

Pat. 2,290,416. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. July 21, 1942. Reg. No. 39,139.

Pat. 2,292,208. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. Aug. 4, 1942. Reg. No. 39,140.

Pat. 2,310,673. Process for Treating Pipeline Oil. Feb. 9, 1943. Reg. No. 39,141.

Pat. 2,331,594. Process for Increasing Production of Petroleum Oil From Siliceous Strata and the Treating Agent Therefor. Oct. 12, 1943. Reg. No. 39,142.

Pat. 2,356,205. Process for Increasing Productivity of Subterranean Oil-Bearing Strata. Aug. 22, 1944. Reg. No. 39,143.

Pat. 2,356,254. Process for Preventing and/or Removing Accumulation of Solid Matter in Oil Wells, Pipelines, and Flow Lines. Aug. 22, 1944. Reg. No. 39,144.

Pat. 2,366,545. Processes for Sweetening Hydrocarbon Oils. Jan. 2, 1945. Reg. No. 39,145.

Pat. 2,395,639. Process for Separating Minerals by Flotation. Feb. 26, 1946. Reg. No. 39,146.

Pat. 2,400,395. Composition of Matter and Process for Preventing Water-in-Oil Type Emulsions Resulting From Acidization of Calcareous Oil-Bearing Strata. May 14, 1946. Reg. No. 39,147.

Pat. 2,408,527. Processes for Reducing or Preventing Foam. Oct. 1, 1946. Reg. No. 39,148.

Pat. 2,446,040. Processes for Desalting Mineral Oils. July 27, 1948. Reg. No. 39,149.

Pat. 2,470,830. Process of Removing Mud Sheaths From Oil Wells. May 24, 1949. Reg. No. 39,150.

Pat. 2,470,831. Process for Preventing and/or Removing Accumulations of Solid Matter From Oil Wells, Flow Lines, and Pipe Lines. May 24, 1949. Reg. No. 39,151.

Pat. 2,505,374. Extraction of Penicillin. Apr. 25, 1950. Reg. No. 39,152.

Dedicated Patents

Swift & Company dedicates the following patent to the People of the United States of America for their free use.

Re. 22,858. METHOD OF MANUFACTURING ICE CREAM AND THE PRODUCT THEREOF. Reissued Mar. 25, 1947. Original No. 2,065,398, dated Dec. 22, 1936. The texture and overrun of ice cream are controlled by adding a small percentage of glyceryl ester of a higher fatty acid having a free glyceryl alcohol group. Group 20—24.

Hercules Powder Company grants to the public of the United States the right to make, to use, and to sell to others to be used in the United States the following patents.

Pat. 2,264,189. RESINOUS FELTED FIBROUS COMPOSITION. Patented Nov. 25, 1941.

Pat. 2,387,683. PRODUCTION OF RESINOUS FELTED FIBROUS COMPOSITION. Patented Oct. 23, 1945.

These two patents describe a combination of fibrous paper pulp and a resin binder derived from extracting pine wood pitch subjected to heat and pressure. The resulting product is a tough sheet or board material which resists warping or cracking and is suitable for structural uses or other purposes. Groups 26—11—27—64; 28—83; 39—81.

Pat. 2,340,956. TUBULAR PRODUCT. Patented Feb. 8, 1944. Cured and dried sheets of the tough material produced when paper pulp and a resin binder are consolidated

under heat and pressure are cut at an angle and wrapped about a mandrel so that the edges overlap radially. The wrapped mandrel is placed between forming dies and heated above the softening temperature of the material and subjected to pressure. A continuous tubular section results having a tight interlocking joint. Groups 26—27—64; 35—54.

Pat. 2,376,687. PROCESS OF MAKING A FIBROUS THERMOPLASTIC PRODUCT. Patented May 22, 1945.

Pat. 2,376,688. THERMOPLASTIC FIBROUS PRODUCT. Patented May 22, 1945.

In these two patents a modifying agent such as zinc oxide is added to a felted paper pulp and resin mixture to enhance the waterproof properties and hardness of the mixture. While substantially dry, the mixture is subjected to a temperature ranging between 275–340° F., under 600–1000 pounds pressure per square inch for at least an hour. Groups 26—11; 28—83; 39—81.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 19, 1950

[VOL. 641. NO. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 39

CLOTHING

Ser. No. 526,225. Hahn Shoe Mfg. Co., Philadelphia, Pa. Filed July 4, 1947.

No claim is made to the representation of the goods. The illustration of the infant is fanciful.

For Infants' Shoes, Made of Leather and Fabric.

Claims use since January 1941.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 503,293. George J. Howe Company, Inc., Grove City, Pa. Filed June 5, 1946.

Daily Delight

For Coffee.

Claims use since July 1, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 506,071. U. S. Lite-Ray Company, Dayton, Ohio. Filed July 22, 1946.

U.S. LITE-RAY

The letters "U. S." are disclaimed.

For Non-Electrical Reflecting Signs and House Numbers.

Claims use since January 1940.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 570,983. National Lead Company, New York, N. Y. Filed Dec. 22, 1948.

SUPERPAX

Applicant claims ownership of Registrations Nos. 118,593, 129,554, 214,020, 236,832, 236,833, 375,575, and 382,854.

For Ground Zirconium Silicate.

Claims use since May 23, 1947.

CLASS 2

RECEPTACLES

Ser. No. 577,196. Les Parfums de Dana, Inc., New York, N. Y. Filed Apr. 15, 1949.

CLAUDE FONTAINE

The mark consists of a fanciful name.

For Vanity Cases, Compacts, and Lipstick Holders Made of Base Metal and Plastic and Sold in Trade Empty.

Claims use since Mar. 24, 1949.

Ser. No. 578,700. National Lead Company, Sayreville, N. J., and New York, N. Y. Filed May 12, 1949.

EN-EL-CO

For Metal Containers—Namely, Steel Packages, Kegs, and Pails Sold Empty in the Trade.
Claims use since Apr. 5, 1949.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 567,879. Frank J. Quigan, Inc., Maspeth, N. Y. Filed Oct. 29, 1949. (Sec. 2f as to the name "Quigan.")

Quigan

For Handbag Frames.
Claims use since 1925 as to "Quigan"; and since Sept. 21, 1948 as shown.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 543,434. The Fuller Brush Company, Hartford, Conn. Filed Dec. 5, 1947. (Sec. 2f.)

Fuller

Applicant claims ownership of Registrations Nos. 195,389 and 241,222.
For Furniture Polish, Furniture Cream Polish, Liquid Polishing Wax, Paste Polishing Wax, Quick Drying Floor Polish of the Wax Type.
Claims use since Mar. 12, 1924.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 534,683. D. A. Stuart Oil Co., Limited, Chicago, Ill. Filed Sept. 16, 1947.

THERMEX

For Heat Treating Compounds Used in the Heat Treatment of Metals.
Claims use since 1924.

Ser. No. 555,421. Howard D. Mathis, doing business as Automatic Fire Control Co., St. Louis, Mo. Filed Apr. 23, 1948.

The words "Rural Fire Dept." (both showings) and the phrase "Protects Your Property" are disclaimed. The drawing is lined for red and blue.
For Fire Fighting Chemicals.
Claims use since July 15, 1944.

Ser. No. 565,578. Reichhold Chemicals, Inc., Detroit, Mich. Filed Sept. 21, 1948.

STYRESOL

For Styrenated Glycerol Phthalate Resin Solutions.
Claims use since May 5, 1948.

Ser. No. 568,793. B. Heller & Company, Chicago, Ill. Filed Nov. 15, 1948. (Sec. 2f.)

ANT-BANE

Applicant claims ownership of Registrations Nos. 118,410 and 182,512.
For Powder Used to Destroy Ants by Physical Contact or by Being Eaten.
Claims use since July 26, 1911.

Ser. No. 573,012. Sterling Drug Inc., New York, N. Y. Filed Jan. 28, 1949.

FUSAREX

For Agricultural Antiseptic and Inhibiting Agent for the Treatment of Potatoes During Storage to Inhibit Parasitic Attack or Sprouting Thereof.
Claims use since Jan. 10, 1949.

Ser. No. 576,123. Manufacture de Produits Speciaux Robert Levaux, Ingenieur & Cie, Breteuil-sur-Noye, France. Filed Mar. 26, 1949.

EUTECTAL

Applicant claims ownership of French Registration No. 330,347, dated Apr. 1, 1942.
For Softening Agent for Brushed Wool.

Ser. No. 578,501. Heintz Manufacturing Company, Philadelphia, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Filed May 10, 1949.

FOSCOAT

For Chemical Baths for Coating Metal, Replenishing Agents for Such Baths, and Component Ingredients for Both.
Claims use since Feb. 10, 1948.

Ser. No. 578,545. Union Carbide and Carbon Corporation, New York, N. Y. Filed May 10, 1949.

For Chlorinated Hydrocarbons and Derivatives Thereof in Solid, Semi-Solid, and Liquid Forms for Various Uses in the Industrial Arts.
Claims use since July 1946.

Ser. No. 578,672. Allied Chemical & Dye Corporation, New York, N. Y. Filed May 12, 1949.

genetron

Applicant claims ownership of Registration No. 425,171.
For Halogenated Hydrocarbons Sold as Such as Chemicals of Commerce; Normally Gaseous Chemicals for Use as Propellants and Dispersants.
Claims use since Jan. 4, 1946; and since Mar. 24, 1947, as shown.

Ser. No. 579,403. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed May 24, 1949.

FLEXICHROME

For Photographic Chemicals—Namely, Bleach, Dye, Print Lacquer, Masking Lacquer, and Lacquer Thinner.
Claims use since June 30, 1938.

Ser. No. 579,824. MacDermid Incorporated, Waterbury, Conn. Filed June 1, 1949.

CHROMETEX

Applicant claims ownership of Registrations Nos. 186,356 and 514,142.
For Dry Acid Salt Used to Activate Nickel Plate and Stainless Steel Prior to Chrome Plating.
Claims use since Oct. 19, 1948.

Ser. No. 580,159. Veiodent Products Manufacturing Co., Inc., New York, N. Y. Filed June 8, 1949.

DYNAMICE

For Rodenticides.
Claims use since Jan. 5, 1949.

Ser. No. 582,908. The Glidden Company, Cleveland, Ohio. Filed Aug. 3, 1949.

CUBOND

For Brazing Paste.
Claims use since Mar. 24, 1949.

Ser. No. 583,409. Pan American Products, Inc., Springfield Gardens, N. Y. Filed Aug. 12, 1949.

MOISTEX

For Plaques, Statuettes, and Figurines Adaptable for the Removal of Odors and Condensable Vapors From the Atmosphere.
Claims use since Aug. 3, 1949.

Ser. No. 584,442. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Sept. 3, 1949.

DELRIN

For Synthetic Drying Oils and Mixtures Containing Synthetic Drying Oils for Generalized Use in the Industrial Arts.
Claims use since June 22, 1949.

Ser. No. 586,586. Botany Mills, Inc., Passaic, N. J. Filed Oct. 20, 1949.

BOTANEIN

For Wool Protein, Plasticizers, Protective Colloids for Textile Fabrics, and as an Emulsifier.
Claims use since Jan. 13, 1949.

Ser. No. 587,617. Harry L. Acomb, Wayne, Pa. Filed Nov. 10, 1949.

POLYREZ

For Industrial Synthetic Resins in the Form of Liquid Solutions and Emulsions, Powders, and Lumps.
Claims use since June 10, 1949.

Ser. No. 588,543. American Stores Company, Philadelphia, Pa. Filed Nov. 30, 1949. (Sec. 2f.)

SPEED UP

Applicant claims ownership of Registration No. 351,756.
For Ammonia, Bluing, Bleach Water, Liquid Starch, and Washing Soda.
Claims use since Dec. 30, 1943.

Ser. No. 592,151. Kepec Chemical Corporation, Milwaukee, Wis. Filed Feb. 8, 1950.

FINNALINE

For Coloring and Finishing Material, in Powder and in Liquid Form, for Use on Leather, Paper, and Textiles.
Claims use since September 1932.

Ser. No. 593,669. Keystone Color Works, Inc., York, Pa. Filed Mar. 9, 1950.

FLUIDIZED

For Wall Paper Pulp Colors in the Nature of Chemical Pigments.
Claims use since Jan. 3, 1950.

Ser. No. 593,895. Whitmire Research Laboratories, Inc., St. Louis, Mo. Filed Mar. 13, 1950. (Sec. 2f.)

TICKS OFF

For Insect Repellent in the Form of Solutions and Suspensions for Use Upon Humans and Other Animals, and Upon Clothing.
Claims use since Feb. 27, 1945.

Ser. No. 593,995. Nopco Chemical Company, Harrison, N. J. Filed Mar. 15, 1950.

KONRITE

For Yarn Lubricant.
Claims use since Apr. 7, 1947.

Ser. No. 594,004. United Distillers of America, Inc., New York, N. Y. Filed Mar. 15, 1950.

Saf-tone

For Anti-Freeze.
Claims use since Oct. 24, 1949.

Ser. No. 594,607. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Feb. 11, 1950. (Sec. 2f.)

LEWIS' AMERICAN INDIAN HEAD

Applicant claims ownership of Registrations Nos. 56,078, 173,907, 177,222, and 200,405.
For Lye.
Claims use since June 1947 in its present form. The separate trade-marks "Lewis," "American" and "American Indian Head" were used since 1877, 1854, and 1924 respectively.

Ser. No. 596,769. American Tansul Company, San Francisco, Calif. Filed May 3, 1950.

TANSUL-7

Applicant claims ownership of Registration No. 147,748.
For Material for Chillproofing and Stabilizing Malt Beverages—Namely, Beer and Ale.
Claims use since May 1, 1945.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 592,498. Kauffmann Bros. & Bondy, Inc., West New York, N. J. Filed Feb. 15, 1950.

K B&B

Applicant claims ownership of Registrations Nos. 120,584, 303,578, 305,705, and 305,718.
For Smokers' Pipes, Cigar and Cigarette Holders.
Claims use since 1881.

Ser. No. 593,308. Wico Electric Company, West Springfield, Mass. Filed Mar. 2, 1950.

WICO

For Electric Cigarette Lighters.
Claims use since Feb. 8, 1950.

Ser. No. 593,794. Everett Albert Gallegos, doing business as The Ainik Co., Gallup, N. Mex. Filed Mar. 11, 1950.

Vendalite

For Kits Containing Fluid, Flints, Wicks, and Cleaning Brushes for Cigarette and Cigar Lighters.
Claims use since Feb. 25, 1950.

Ser. No. 593,799. Illinois Watch Case Co., operating under the name of Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Filed Mar. 11, 1950.

"CASE-O-MATIC"

The word "Case" is disclaimed.
For Combination Cigarette Case and Lighter.
Claims use since Feb. 22 ,1950.

Ser. No. 595,036. The Reiss-Premier Corporation, West New York, N. J. Filed Feb. 15, 1950.

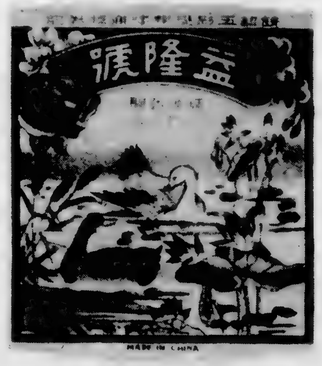
KAYWOODIE

Applicant claims ownership of Registration Nos. 262,404 and 284,581.
For Smokers' Pipes, Cigar and Cigarette Holders.
Claims use since Feb. 18, 1919.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 569,488. Tang Pik Tong, carrying on business under the name of Yick Loong Fireworks Company, Hong Kong, China. Filed Nov. 26, 1948.



All wording with the exception of "Duck" is disclaimed. The equivalent in English of the Chinese characters appearing on the mark is as follows: 'Please Observe Our 5-Coloured "Duck" Brand for Identification. Yick Loong Firm—Our Firm Is Carrying on Business at Tum Chai Macau.' Applicant claims ownership of Hong Kong Registration No. 45, dated Mar. 6, 1930.
For Fireworks.

Ser. No. 569,489. Tang Pik Tong, doing business as Kwan Yick Fireworks Company, Hong Kong, China. Filed Nov. 26, 1948.

The equivalent in English of the Chinese characters appearing on the mark is as follows: "Kwan Yick Firm—Cock Brand Trade Mark—All Kinds of Quick Firing Crackers of Our Firm Are Manufactured With Superior Material and Selected Papers. Customers Are Requested to Identify Our Chop to Avoid Any Mistake in Their Patronage. We Are Carrying on Business at Im Po (Through Which the Canton-and-Samshui Railway Is Passing) in the Nam Hoi County in the Province of Kwangtung." All wording with the exception of "Cock" is disclaimed. Applicant claims ownership of Hong Kong Registration No. 44, dated Mar. 6, 1930.
For Fireworks.

Ser. No. 576,390. Castle Sporting Goods Inc., Brooklyn, N. Y. Filed Mar. 31, 1949.

Straight Shooter

The representation of the gun is disclaimed.
For Cartridge Belts, Shell Pouches, Rifle Slings, Pistol Cases, Holsters, Gun Cases, and Gun Covers.
Claims use since Feb. 10, 1947.

Ser. No. 586,364. Remington Arms Company, Inc., Bridgeport, Conn. Filed Oct. 15, 1949.

Wingmaster

For Firearms—Particularly Sporting Shot Guns and Rifles and Parts Thereof.
Claims use since Sept. 29, 1949.

Ser. No. 587,810. Philip Magid, Brooklyn, N. Y. Filed Nov. 15, 1949. (Sec. 2f.)

PHILIP'S

For Gun Swivels.
Claims use since Nov. 1, 1939.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 583,135. Interchemical Corporation, New York, N. Y. Filed Aug. 2, 1949.

The Red Writing Hood

The word "Writing" is disclaimed.
For Carbon Paper.
Claims use since Jan. 1, 1929.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 514,334. The Dow Chemical Company, Midland, Mich., a corporation of Delaware, now by merger with The Dow Chemical Company, a corporation of Michigan. Original filed, act of 1905, Dec. 16; 1946; amended to application under act of 1946, Principal Register, June 1, 1948.

STYROFOAM

Applicant claims ownership of Registrations Nos. 362,877 and 393,786.
For Blocks, Boards, and Other Shapes of Multicellular Expanded Synthetic Resinous Material for Construction Purposes.
Claims use since Sept. 11, 1945.

Ser. No. 565,295. Paragon Insulation Co., Inc., Brooklyn and New York, N. Y. Filed Sept. 2, 1948.

Paragon

For Combination Storm and Screen Windows, Doors, Window Casements, Window Screens, Storm Windows, All of Metal.
Claims use since September 1942.

Ser. No. 576,008. New York Laminating Company, Clinton, Mass. Filed Mar. 24, 1949.

PERMA PANEL

The word "Panel" is disclaimed.
For Decorated Wall Board.
Claims use since Mar. 12, 1949.

Ser. No. 583,809. Metal Awning Company of Memphis, Memphis, Tenn. Filed Aug. 22, 1949.

POLAR KRAFT

For Metal Awnings.
Claims use since Aug. 8, 1949.

Ser. No. 586,332. Virginia Greenstone Company, Incorporated, Lynchburg, Va. Filed Oct. 14, 1949. (Sec. 2f.)
Applicant claims ownership of Registration No. 273,250.

VIRGINIA GREENSTONE

For Stone for Building, Monumental, and Decorative Purposes.
Claims use since May 10, 1929.

Ser. No. 587,643. Monsanto Chemical Company, St. Louis, Mo. Filed Nov. 10, 1949.

MP

For Wood Treated With Chemical Preservative—Namely, Structural Timber and Lumber Such as Dimension Lumber, Planks, Beams, and Posts; Plywood; Shingles; Millwork Such as Flooring, Siding, Sash, Doors, Door and Window Frames, Interior and Exterior Trim; Cross-Ties; Piling; Fence Posts; Poles Such as Supporting Poles for Power and Communication Lines.
Claims use since Oct. 14, 1949.

Ser. No. 589,987. Pope & Talbot, Inc., San Francisco, Calif. Filed Dec. 27, 1949.

KONKIFIR

For Lumber.
Claims use since Dec. 12, 1949.

Ser. No. 590,281. The Pantasote Co., Passaic N. J., and New York, N. Y. Filed Jan. 3, 1950.

LIFEWALL-TILE

The word "Tile" is disclaimed.
For Plastic Wall Tile in Sheet Form.
Claims use since Nov. 29, 1949.

Ser. No. 595,858. The Steelcraft Manufacturing Company, Rossmoyne, Ohio. Filed Apr. 17, 1950.

Spacemaker

For Sliding Steel Doors.
Claims use since Mar. 1, 1950.

Ser. No. 595,894. Harrison-Walker Refractories Company, Pittsburgh, Pa. Filed Apr. 18, 1950.

H-W
ANKORITE

For High Alumina Refractory Cement.
Claims use since Jan. 30, 1950.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 508,439. Price-Pfister Mfg. Co., Los Angeles, Calif. Original filed, act of 1905, Sept. 3, 1946; amended to application under act of 1946, Principal Register, Jan. 22, 1949. (Sec. 2f.)

"No Hose Kink"

For Faucets.
Claims use since 1927.

Ser. No. 522,206. The Metal Ware Corporation, Two Rivers, Wis. Original filed, act of 1905, May 10, 1947; amended to application under act of 1946, Principal Register, Mar. 8, 1948. (Sec. 2f.)

"SEE 'EM POP"

For Non-Electric Household Pop Corn Poppers.
Claims use since 1937.

Ser. No. 555,172. W. T. Grant Company, New York, N. Y. Filed Apr. 21, 1948.

COOK QUEEN

The term "Cook" is disclaimed.
For Kitchen Utensils Made of Aluminum Ware—Namely, Tea Kettles, Double Boilers, Combination Cookers, Sauce Pans, and Pots.
Claims use since Oct. 27, 1947.

Ser. No. 564,310. All-Steel Equipment Inc., Aurora, Ill. Filed Aug. 28, 1948.

RACO

Applicant claims ownership of Registration No. 206,988.
For Hardware—Namely, Cover Plates for Metal Boxes, and Cable Clamps.
Claims use since July 1922.

Ser. No. 564,313. All-Steel Equipment Inc., Aurora, Ill. Filed Aug. 28, 1948.

For Hardware—Namely, Cover Plates for Metal Boxes, and Cable Clamps.
Claims use since October 1923.

Ser. No. 564,315. All-Steel Equipment Inc., Aurora, Ill. Filed Aug. 28, 1948.

Applicant claims ownership of Registration No. 206,988.
For Hardware—Namely, Cover Plates for Metal Boxes, and Cable Clamps.
Claims use since October 1923.

Ser. No. 569,438. H. B. Dodge and Company, Chicago, Ill., assignor to Charles Culver Shields, Lake Bluff, Ill. Filed Nov. 26, 1948.

TRAKOOK

For Hangers Comprising Hooks for the Support of Articles Suspended Thereon.
Claims use since Dec. 1, 1947.

Ser. No. 595,321. Hotpoint Inc., Chicago, Ill. Filed Apr. 6, 1950.

WONDERFLO

For Faucets and Valves Designed for Use in Kitchen Sinks, and the Like.
Claims use since Mar. 7, 1950.

CLASS 15

OILS AND GREASES

Ser. No. 543,843. The Shaler Company, Waupun, Wis. Filed Dec. 9, 1947. (Sec. 2f.)

SHALER

For Chemical Additive to Lubricating Oil for Removing Carbon Deposits and Dissolving Gums in the Cylinders and Lubricating Systems of internal Combustion Engines.
Claims use since June 1930.

Ser. No. 578,764. Canfield Oil Company, Cleveland, Ohio. Filed May 13, 1949. (Sec. 2f.)

Canfield Premium

The word "Premium" is disclaimed. Applicant claims ownership of Registrations Nos. 199,810 and 238,907.
For Lubricating Oils.
Claims use since 1928.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 530,675. Patek Brothers, Inc., Milwaukee, Wis. Filed Aug. 6, 1947.

The drawing is lined for red.
For Interior and Exterior Paints for All Types of Surfaces and Sold in Powder, Paste or Liqud Form; Calcimines; Paint and Baking Enamels; Lacquers; Japans; Varnishes; Wood Stains; Paint and Varnish Removers Sold in Liquid and Semi-Liquid Form; Paint Driers; Paint Drying Oils; Roof Coatings in the Nature of Paint; Paint, Wood and Metal Fillers for Use Before Decorating and Painting; Coating Compounds for Glazing Walls and Ceilings Before Decorating and Painting; Protective Floor Waxes; and Paint, Enamel, Lacquer and Varnish Thinners and Solvents.
Claims use since Nov. 1, 1895.

Ser. No. 554,212. Devoe & Raynolds Company, Inc., New York, N. Y. Filed Apr. 9, 1948.

DEVRAN

For Ready-Mixed Interior and Exterior Paints; Varnishes; Air-Drying and Baking Paint Enamels; and Resins and Resin Solutions for Use in the Manufacture of Paints, Enamels, and Varnishes.
Claims use since Aug. 6, 1947.

Ser. No. 554,276. Valentine & Company, Inc., New York, N. Y. Filed Apr. 9, 1948.

GLORI-GLO

The word "Glo" is disclaimed.
For Ready-Mixed Aluminum Paint Sold in Small Containers.
Claims use since Dec. 29, 1938.

Ser. No. 570,160. B. Altman & Co., New York, N. Y. Filed Dec. 8, 1948.

B&A

For Floor Wax and Furniture Wax Intended for Use as Protective Wax Coatings.
Claims use since 1915.

Ser. No. 590,105. Shapleigh Hardware Company, St. Louis, Mo. Filed Dec. 29, 1949.

Mizzoo

For Ready Mixed Liquid Paint, Varnish and Enamel.
Claims use since October 1940.

Ser. No. 590,598. Humble Oil & Refining Company, Houston, Tex. Filed Jan. 10, 1950.

HUMBLE

The drawing is lined for the colors red and blue. Applicant claims ownership of Registrations Nos. 165,844, 166,460, and others.
For Ready Mixed Paints, Protective Paint Coatings and Thinners, Reducers, and Oils for Use Therewith.
Claims use since Aug. 25, 1947.

Ser. No. 592,537. The Baker Castor Oil Company, Jersey City, N. J. Filed Feb. 16, 1950.

CASTUNG

Applicant claims ownership of Registrations Nos. 385,224 and 385,959.
For Dehydrated Castor Oil, Modified Dehydrated Castor Oil, and Modified Linseed Oil, for Use in Paints, Varnishes, Enamels and Lacquers, and in the Modification of Resins for Utilization in Such Coatings.
Claims use since September 1937.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 557,405. Webb's City, Inc., St. Petersburg, Fla. Filed May 19, 1948. (Sec. 2f as to "Webb's.")

WEBB'S MATADORS

For Cigars.
Claims use since Oct. 15, 1946, as shown; and since 1932 as to "Webb's."

Ser. No. 568,357. Alfred Dunhill Limited, London, England. Filed Nov. 8, 1948. (Sec. 2f.)

dunhill

Applicant claims ownership of Registrations Nos. 403,661, 404,218, 406,638, 155,951, and 356,504.
For Raw Tobacco, Smoking and Chewing Tobacco, Snuff, Cigars, and Cigarettes.
Claims use since Dec. 5, 1934; and since Mar. 14, 1935, in commerce between Great Britain and the United States which may lawfully be regulated by Congress.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 565,829. The Upjohn Company, Kalamazoo, Mich. Filed Sept. 24, 1948. (Sec. 2f.)

Ferrated Liver

For Medicinal Preparation of Liver, Iron-Compound, and Vitamins.
Claims use since Jan. 2, 1941.

Ser. No. 569,643. Schering Corporation, Bloomfield, N. J. Filed Nov. 30, 1948.

PROBETS

For Tablets Containing Hormone Substances and Embodying a Special Base Suited for Buccal and Sublingual Administration.
Claims use since Nov. 9, 1948.

Ser. No. 571,844. Carworth Farms, Inc., New City, N. Y. Filed Jan. 8, 1949.

"Vacseal"

For Guinea Pig Complement, the Serum of Guinea Pigs, Which Is Used in the Complement-Fixation Tests for the Diagnosis of Various Diseases.
Claims use since Nov. 17, 1948.

Ser. No. 578,472. Ray Wasserman, Corpus Christi, Tex. Filed May 9, 1949.

SUMMER-AID

The drawing is lined for blue.
For Liquid Preparation for Relief of Prickly Heat and Mosquito Bites.
Claims use since Apr. 25, 1948.

Ser. No. 583,706. Nutrition Research Laboratories, Chicago, Ill., assignor to Nutrition Research Laboratories, Inc., a corporation of Illinois. Filed Aug. 19, 1949.

CHLOROGUENT

For Pharmaceutical Preparation Containing Chlorothen Citrate in an Emollient Base for Use as a Topical Ointment in Allergic Dermatitis.
Claims use since June 1, 1949.

Ser. No. 583,707. Nutrition Research Laboratories, Chicago, Ill., assignor to Nutrition Research Laboratories, Inc., a corporation of Illinois. Filed Aug. 19, 1949.

TURICUM

For Pharmaceutical Preparation Containing Dimethionine for Use in the Treatment of Certain Liver Disorders or as a Dietary Supplement.
Claims use since June 1, 1949.

Ser. No. 584,161. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Aug. 27, 1949.

DEX SO4

The term "SO4" is disclaimed.
For Medicine for Stimulation of the Central Nervous System, Treatment of Obesity, Control of Appetite, Stimulation of the Sympathetic Nervous System, Treatment of Narcolepsy, Depression, Post-Encephalitic Parkinsonism, Commonly Known as Parkinson's Disease, and Alcoholism.
Claims use since June 30, 1949.

Ser. No. 584,784. Winthrop-Stearns Inc., New York, N. Y. Filed Sept. 13, 1949.

BIOTAXIN

For Medicinal Preparation for Use in the Treatment of Anemias.
Claims use since Aug. 24, 1949.

Ser. No. 584,997. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Sept. 17, 1949.

FESO-VEN

Applicant claims ownership of Registration No. 327,541.
For Medicine for the Treatment of Anemia.
Claims use since July 28, 1949.

Ser. No. 586,228. Abbott Laboratories, North Chicago, Ill. Filed Oct. 13, 1949.

Thenylfred

Applicant claims ownership of Registration No. 434,475.
For Antihistamine Preparation Intended for Use in the Treatment of Various Allergic Conditions.
Claims use since Sept. 22, 1949.

Ser. No. 587,017. Endo Products, Inc., Richmond Hill, N. Y. Filed Oct. 29, 1949.

ELIXIR PB

The word "Elixir" is disclaimed.
For Pharmaceutical Preparation Containing Phenobarbitol, Used as a Sedative.
Claims use since July 1, 1947.

Ser. No. 587,358. Schenley Laboratories, Inc., New York, N. Y. Filed Nov. 4, 1949.

VASCAIR

For Tablets for Use as a Vascular Protective and Lipotropic Agent.
Claims use since Oct. 1, 1949.

Ser. No. 587,495. Maltbie Laboratories, Inc., Newark, N. J., formerly The Maltbie Chemical Company. Filed Nov. 8, 1949.

SODESTRATE

For Preparation for Estrogenic Replacement Therapy.
Claims use since Mar. 8, 1948.

Ser. No. 587,515. Vascular Pharmaceutical Company, Inc., Roslyn Heights, N. Y. Filed Nov. 8, 1949.

OXYTROPIN

For Ethically Sold Preparation for the Regulation of Oxidative Metabolism.
Claims use since June 30, 1949.

Ser. No. 588,612. The Wander Company, Chicago, Ill. Filed Nov. 30, 1949.

H.P.S. Sixty

The word "Sixty" is disclaimed.
For High Protein Supplement in Dry Form for Therapeutic Purposes.
Claims use since July 20, 1949.

Ser. No. 589,075. E. K. Cook & Co., Inc., Washington, D. C. Filed Dec. 9, 1949.

THYBEN

For Medicinal Preparation Adapted for Administration Under Prescription in the Treatment of Obesity.
Claims use since Jan. 1, 1948.

Ser. No. 589,518. Manhattan Drug Company, Brooklyn, N. Y. Filed Dec. 17, 1949.

NEO-HIST

For Anti-Histamine Tablets Containing Pyranisamine Maleate for the Relief of Colds and Hay Fever.
Claims use since Dec. 1, 1949.

Ser. No. 590,813. Joseph L. Jones, doing business as Food and Nutrition Company of America, Los Angeles, Calif. Filed Jan. 13, 1950.

Y *The Yale formula*

The word "Formula" is disclaimed.
For Multivitamin and Mineral Product Used as a General Dietary Supplement.
Claims use since Oct. 31, 1949.

Ser. No. 591,605. Armour and Company, doing business under the trade style The Armour Laboratories, Chicago, Ill. Filed Jan. 28, 1950.

ARMYSIN

For Adenosine Triphosphate Used for Medicinal Purposes.
Claims use since August 1949.

Ser. No. 591,618. Grant Chemical Co., Inc., New York, N. Y. Filed Jan. 28, 1950.

Bio-des

Applicant claims ownership of Registration No. 514,252.
For Medicinal Preparation for Use in the Treatment of Threatened Abortion, Habitual Abortion, and Premature Labor.
Claims use since June 3, 1949.

Ser. No. 591,621. House of Houston, Inc., Coral Gables, Fla. Filed Jan. 28, 1950.

ITCH WITCH

The word "Itch" is disclaimed.
For Preparation for the Treatment of Dog Mange.
Claims use since Mar. 15, 1949.

Ser. No. 593,642. Abbott Laboratories, North Chicago, Ill. Filed Mar. 9, 1950.

NUVARONE

For Anticonvulsant Agent Intended for Use in the Treatment of Certain Epileptic Manifestations.
Claims use since Feb. 22, 1950.

Ser. No. 593,692. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Mar. 9, 1950.

CRILITIN

For Medicinal Preparation for Use in the Treatment of Respiratory Tract Conditions.
Claims use since Dec. 22, 1949.

Ser. No. 593,693. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Mar. 9, 1950.

DEVOTRON

For Medicinal Preparation for Use in the Treatment of Respiratory Tract Conditions.
Claims use since Dec. 22, 1949.

Ser. No. 594,957. Alexandre Debruille, New York, N. Y. Filed Mar. 31, 1950.

METIO

For Preparation Used in the Treatment of Anaemia, Chronic Alcoholism, Diabetes, and Liver Disturbances.
Claims use since Jan. 25, 1950.

CLASS 19
VEHICLES

Ser. No. 543,724. Lewis-Shepard Products, Inc., Watertown, Mass. Filed Dec. 8, 1947.

FLOORMASTER

Applicant claims ownership of Registration No. 119,331.
For Floor Trucks and Parts Thereof—Namely, Bodies, Frames, Chassis, Axles, Casters, Wheels, Handles, Trailer Hitches, and Brake Mechanisms.
Claims use since 1934.

Ser. No. 567,979. Joma Mfg. Co., Inc., New York, N. Y. Filed Nov. 1, 1948.

JOMA

For the Following Accessories and Parts for Automotive Vehicles: Brake Lever Extensions, Fender Guides, License Plate Frames; Ornaments Adaptable to the Hoods, Fenders and Other Parts of the Bodies of Motor Vehicles; Radiator Caps, Rear-View Mirrors, Rear-View Mirrors With Thermometers, and Steering Wheel Spinners.
Claims use since September 1934.

Ser. No. 580,835. Ford Motor Company, Dearborn, Mich. Filed June 21, 1949.

Hydra-Coil

The word "Coil" is disclaimed.
For Independent Wheel Suspensions for Automotive Vehicles.
Claims use since June 18, 1948.

Ser. No. 592,492. Hershey Metal Products, Incorporated, Ansonia, Conn. Filed Feb. 15, 1950.

G-H

For Automobile Front End Suspension (Knee Action) Replacement Parts—Namely Control Arms, Bushings, Seal Fittings, Spring Spacers, Supporting Pins, Steering Knuckle Supports, Spring Clips, Stabilizers, and Steering Arm Sleeves.
Claims use since May 1, 1947.

CLASS 20
LINOLEUM AND OILED CLOTH

Ser. No. 567,764. Dominion Oilcloth & Linoleum Co. Limited, Montreal, Quebec, Canada. Filed Oct. 28, 1948.

MARBOLEUM

Applicant claims ownership of Canadian Registration No. 238/51,516, dated Feb. 9, 1931.
For Marbleized Linoleum for Floor, Wall, Table, Counter, and Desk Coverings, and Marbleized Linoleum Tiling.

CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 558,602. Roy C. Stove & Company, Chicago, Ill. Filed June 5, 1948.

SANIVENT

For Electric Ultra-Violet Ray Lamp Fixture for Bactericidal Purpose and for Deodorizing Air in Warm Air Heating and Air Conditioning Systems.
Claims use since Mar. 1, 1948.

Ser. No. 561,194. Knapp-Monarch Company, St. Louis, Mo. Filed July 12, 1948.

Tropic-Glo

The word "Glo" is disclaimed.
For Electric Room Heaters.
Claims use since August 1947.

Ser. No. 577,663. Day-Brite Lighting, Inc., St. Louis, Mo. Filed Apr. 25, 1949.

KAY-P

The word "Kay" is disclaimed.
For Fluorescent Lighting Fixtures and Parts Thereof.
Claims use since Feb. 2, 1949.

Ser. No. 579,197. Micro-Lite Company, Inc., New York, N. Y. Filed May 20, 1949.

"BUTCH"

For Flashlights.
Claims use since Apr. 13, 1949.

Ser. No. 581,353. Philco Corporation, Philadelphia, Pa. Filed June 30, 1949.

Rangemaster

Applicant claims ownership of Registrations Nos. 310,873, 438,906, and 438,907.
For Electric Ranges.
Claims use since May 16, 1949.

Ser. No. 581,670. Laminated Plastics, Inc., East Cleveland, Ohio. Filed July 8, 1949.

GLASTIC

For Electrical Insulating Board for Use in Connection With Electrical Control Panels, Transformer Spacer Sticks, and Support Insulators of Various Types and Sizes.
Claims use since Oct. 17, 1946.

Ser. No. 583,550. Sangamo Electric Company, Springfield, Ill. Filed Aug. 16, 1949.

SANGAMO

Applicant claims ownership of Registration No. 105,828.
For Circuit Breakers, Shunts, Transformers, and Electric Capacitors.
Claims use since Apr. 1, 1901.

Ser. No. 594,473. Kennecott Wire and Cable Company, Phillipsdale, R. I. Filed Mar. 23, 1950.

Thermocon

For Bare and Insulated Electric Wire and Cable.
Claims use since Feb. 8, 1950.

Ser. No. 594,922. Signal-Stat Corporation, Brooklyn, N. Y. Filed Mar. 30, 1950.

SIGFLARE

Applicant claims ownership of Registration No. 366,340.
For Vehicle Direction Signal Switches.
Claims use since Jan. 7, 1950.

Ser. No. 595,691. Sunbeam Corporation, Chicago, Ill. Filed Apr. 13, 1950.

Sunbeam

Applicant claims ownership of Registrations Nos. 260,758, 390,181, and 441,675.
For Electric Toasters.
Claims use since Mar. 25, 1922.

Ser. No. 595,993. Westinghouse Electric Corporation, Pittsburgh, Pa., and Mansfield, Ohio. Filed Apr. 19, 1950.

ROCKET

For Electric Ranges and Parts Thereof.
Claims use since Mar. 30, 1950.

Ser. No. 596,368. Sunvic Controls Limited, London and Strand, London, England. Filed Apr. 26, 1950.

SUNVIC

Applicant claims ownership of British Registration No. 668,234, dated Apr. 2, 1948.
For Regulating Electric Switch for Electric Cookers and Hotplates.

Ser. No. 597,055. Arco Electronics, Inc., New York, N. Y. Filed May 8, 1950.

ARCo

For Radio and Television Receivers and Fixed and Variable Capacitors for Radio and Television Receivers.
Claims use since June 1946.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 579,494. Guy I. Gibbons, Newton, Mass. Filed May 25, 1949.

SPINNEROO

For Games Like Badminton Played With an Hour-Glass Shaped Spinning Reel-Like Top, Tossed and Caught on a Cord Attached to Two Sticks Used as Handles.
Claims use since Apr. 26, 1949.

Ser. No. 588,291. Dow Plating Laboratories, Davison, Mich. Filed Nov. 25, 1949.

Mermaid

For Artificial Casting and Trolling Lure.
Claims use since September 1948.

Ser. No. 592,359. Comet Model Hobbycraft, Inc., Chicago, Ill. Filed Feb. 13, 1950. (Sec. 2f.)

MEGOW

For Model Airplane Kits.
Claims use since 1931.

Ser. No. 593,154. American Character Doll Co., New York, N. Y. Filed Feb. 28, 1950.

TINY TEARS

For Dolls.
Claims use since Feb. 17, 1950.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 496,745. Wilson Manufacturing Company, Inc., Wichita Falls, Tex., and elsewhere. Original filed, act of 1905, Feb. 16, 1946; amended to application under act of 1946, Principal Register, Dec. 13, 1948. (Sec. 2f.)

Wilson

For Derricks, Mast Poles, Chain and Gear Transmissions, Friction Clutches; Internal Combustion Engine Power Driven Winches, Hoists, Drilling and Clean-Out Spudders, Drilling Rigs, and Parts Thereof.
Claims use since Mar. 1, 1938.

Ser. No. 549,053. Cooper-Bessemer Corporation, Mount Vernon, Ohio. Filed Feb. 7, 1948. (Sec. 2f as to "Cooper-Bessemer.")

COOPER EST. 1833 BESSEMER

The notation "Est. 1833" is disclaimed.
For Gas Engines, Oil Engines, Pumps and Compressors for Industrial Use.
Claims use since Jan. 1, 1930.

Ser. No. 566,894. Schock, Gusmer & Co., Inc., Hoboken, N. J. Filed Oct. 12, 1948.

VALLEY BOTTOM

For Lauter Tubs.
Claims use since Aug. 31, 1948.

Ser. No. 567,874. Oil Well Supply Company, Dallas, Tex. Filed Oct. 29, 1948. (Sec. 2f.)

"OILWELL"

Applicant claims ownership of Registrations Nos. 144,139, 287,231, 327,652, and 328,273.
For Cable Tool Well Drilling Units, Crown and Travelling Blocks, Draw Works or Hoists, Drives for Draw Works and Pumps, Drill Collars, Drill or Grief Stems, Feed Controls for Well Drilling, Gas Booster Units, Internal Combustion Engines, Polished Rod Jackets, Portable Derricks, Portable Masts, Pull Rods, Pull Rod Clamps, Pumps and Parts Thereof, Pumping Jacks, Pumping Powers, Pumping Units, Reduction Gears, Rotary Drilling Units, Steam Engines, Stuffing Boxes, Substructures for Derricks and Drives, Sucker Rods, Sucker Rod Couplings, Swivels, Transmissions, Well Drilling Rotaries, and Well Packers.
Claims use since 1900.

Ser. No. 570,903. Neil A. MacLean Company, San Francisco, Calif. Filed Dec. 21, 1948.

FUMIGUN

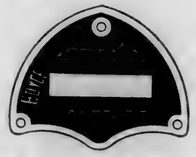
For Hand-Operated Soil Fumigator Comprising a Receptacle for a Chemical and a Pumping Unit for Ejecting a Measured Amount of the Chemical Into the Soil, Built and Sold as a Unit.
Claims use since May 27, 1947.

Ser. No. 580,018. Conley A. Lewis, doing business as Conley Lewis Company, Terra Alta, W. Va. Filed June 6, 1949.

"CIZZY SHARPER"

The term "Sharper" is disclaimed.
For Manually Operable Apparatus Designed to Sharpen Such Articles as Scissors and the Like.
Claims use since Apr. 25, 1949.

Ser. No. 590,139. A. B. Carter, Incorporated, doing business as Mill Devices Co., Gastonia, N. C. Filed Dec. 30, 1949. (Sec. 2f.)



The representation of the metal name plate is disclaimed apart from the mark as shown.
For Hand Operated Weavers' Knotters.
Claims use since Jan. 1, 1924.

Ser. No. 593,753. Southern Belting Company, Atlanta, Ga. Filed Mar. 10, 1950. (Sec. 2f as to "Southern.")

Southern Belting Co.
French Bon Vie Tanned
Atlanta, Ga.

The words "Belting Co.," "French Tanned," "Atlanta, Ga." and "Trade Mark" are disclaimed.
For Leather and Comparable Straps for Textile Machinery, the Foregoing Being Finished Articles.
Claims use since Jan. 6, 1950.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 561,017. Hodgens-Barnett & Co., Inc., Chippewa Falls, Wis. Filed July 9, 1948.

SELCON

For Unitary Electrically Operated Apparatus for Measuring, Indicating, and Automatically Controlling the Concentration of Detergents in Cleaning Solutions used in Mechanical Washing Equipment, and for Electrical Apparatus for Measuring and Indicating the Concentration of Detergents for the Same Purpose.
Claims use since May 1, 1948.

Ser. No. 581,155. F. Kenneth Albrecht, Monkton, Md. Filed June 28, 1949.

Clinichrome Library

The word 'Library" is disclaimed.
For Filing Cases for Photographic Slides.
Claims use since Mar. 15, 1948.

Ser. No. 597,391. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed May 13, 1950.

Starlet

For Photographic Cameras.
Claims use since May 3, 1950.

Ser. No. 597,677. General Optical Company, Inc., Mount Vernon, N. Y. Filed May 18, 1950.

GENCO

For Ophthalmic Lenses.
Claims use since May 1, 1950.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 594,658. D. C. Percival & Company, Incorporated, Boston, Mass. Filed Mar. 25, 1950.

PURITAN

For Watches, Watch Cases, Watch Parts, and Clocks.
Claims use since Feb. 7, 1950.

Ser. No. 595,308. Crestwood Products Co. Inc., Syracuse, N. Y. Filed Apr. 6, 1950.

Chateau

For Clocks.
Claims use since Feb. 16, 1949.

Ser. No. 595,624. Superior Watch Corporation, New York, N. Y. Filed Apr. 12, 1950.

PULSOCHRONO

For Watches and Parts Thereof.
Claims use since Jan. 20, 1950.

Ser. No. 595,821. Bulova Watch Company, Inc., New York, N. Y. Filed Apr. 17, 1950.

Commendation

For Watches—Namely, Wrist or Strap Watches.
Claims use since Apr. 5, 1950.

Ser. No. 595,822. Bulova Watch Company, Inc., New York, N. Y. Filed Apr. 17, 1950.

Southpaw

For Watches—Namely, Wrist or Strap Watches.
Claims use since Apr. 5, 1950.

Ser. No. 596,198. Sears, Roebuck and Co., Chicago, Ill. Filed Apr. 22, 1950.

TOWER

For Pocket and Wrist Watches.
Claims use since January 1948.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 586,896. Josiah Wedgwood & Sons Incorporated, New York, N. Y. Filed Oct. 26, 1949. (Sec. 2f.)

NAPOLEON IVY

For Ceramic Dinnerware.
Claims use since 1936.

Ser. No. 590,400. United China and Glass Company, New Orleans, La. Filed Jan. 5, 1950.

NORLEANS

For Chinaware—Namely, Dinnerware, Tea Sets, After-Dinner Coffee Sets, Cups and Saucers, and After-Dinner Cups and Saucers.
Claims use since July 1, 1949.

Ser. No. 592,417. Raymond Brenner Inc., also trading as Raymond Brenner, Youngstown, Ohio. Filed Feb. 14, 1950.

The Cellar Shops

No claim is made to the words "The" and "Shops."
For Ceramic Articles—Namely, Crockery, Chinaware, Earthenware and Porcelain Tableware, Bowls, and Vases.
Claims use since Aug. 29, 1949.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 562,938. Charles L. King, New York, N. Y. Filed Aug. 6, 1948.

KING-LY

For Tie Racks.
Claims use since June 7, 1948.

Ser. No. 573,142. Herbert Ritts, Inc., doing business under the fictitious firm name of Ritts Co., Los Angeles, Calif. Filed Feb. 1, 1949.

TROPITAN

For Chairs, Tables, and Settees.
Claims use since July 3, 1946.

Ser. No. 573,144. Herbert Ritts, Inc., doing business as Ritts Co., Los Angeles, Calif. Filed Feb. 1, 1949.

PAKITAN

For Chairs, Tables, and Settees.
Claims use since Nov. 10, 1948.

Ser. No. 574,577. The Geier Mattress Company, Rossmoyne, Ohio. Filed Feb. 26, 1949.

EASY REST

For Mattresses.
Claims use since Apr. 1, 1940.

Ser. No. 585,345. New England Playpen Company, Glastonbury, Conn. Filed Sept. 26, 1949.

KIDDY KORRAL

The drawing is lined to indicate red, blue, green, and yellow. The word "Kiddy" is disclaimed.
For Children's Play Pens.
Claims use since Apr. 10, 1948.

Ser. No. 588,050. The Shaw-Walker Company, Muskegon, Mich. Filed Nov. 18, 1949. (Sec. 2f.)

Fire-File

The word "File" is disclaimed.
For Insulated Filing Cabinets.
Claims use since Nov. 10, 1928.

Ser. No. 589,087. Grand Manufacturing Company, Detroit, Mich. Filed Dec. 9, 1949.

"Servette"

For Combination Dinette Table and Ironing Board.
Claims use since May 15, 1949.

Ser. No. 590,091. Lincoln Industries, Inc., Marion, Va. Filed Dec. 29, 1949.

Permaleaf

The drawing is stippled for shading.
For Table Leaves.
Claims use since Nov. 17, 1949.

Ser. No. 590,647. Comfort Spring Corporation, Baltimore, Md. Filed Jan. 11, 1950.

For Spring Cushion Units—Namely, Inner Springs, Bed Springs, and Seat Cushions.
Claims use since May 24, 1949.

Ser. No. 593,544. David A. McCowan, Inc., Buffalo, N. Y. Filed Mar. 7, 1950.

SELL-A-VISION

For Merchandise Display Stands or Cabinets.
Claims use since Feb. 8, 1950.

CLASS 33

GLASSWARE

Ser. No. 564,015. Dunbar Glass Corporation, Dunbar, W. Va. Filed Apr. 14, 1948. (Sec. 2f as to the word "Dunbar.")

DUNBAR

Applicant claims ownership of Registration No. 275,098.
For Glass Jugs; Vases, Jars; Sandwich Trays; Cake Stands; Sugar and Cream Sets; Mayonnaise Sets; Cheese and Cracker Dishes; Console Sets; Tumblers; Pitchers; Plates; Trays; Flasks; Bowls; Troughs; Beverage Glasses and Pitchers; Cocktail Shakers; Stem Glasses; Footed Glasses; Martini Mixers; Brandy Inhalers; Saucers; Cups; Center Bowls; Nappies; Salt Shakers; Pepper Shakers; Decanters; Cruets; Casseroles; Vases and Other Glass Containers to Hold Flowers; Wall Plates; Museum Jars for Holding Specimens; Epergnes; Beakers; Protective Meter Covers; Glass Tubing as a Vehicle for the Transportation of Liquids, Gases or Solids; Covers, Casings, Discs, Squares, Rounds, Rings, Spheres and Cylinders for General Use in Industry or for Further Manufacture; Coffee-Makers; Teakettles; Double Boilers; Saucepans; Glass Tableware, Including Heat Resistant Ware; Glass Kitchenware, Including Heat Resistant Ware; Cylinders for Use as Covers; Cylinders for Displays; Flat Glass and Glass Tubing for General Use in Industry or for Further Manufacture; All Being Made of Glass.
Claims use since July 1, 1923.

Ser. No. 589,062. Anchor Hocking Glass Corporation, Lancaster, Ohio. Filed Dec. 9, 1949.

Royal Ruby
Anchorglass

The word "Ruby" is disclaimed. Applicant claims ownership of Registrations Nos. 419,329 and 528,331.
For Glass Bottles.
Claims use since Nov. 28, 1949.

Ser. No. 592,418. Raymond Brenner Inc., also trading as Raymond Brenner, Youngstown, Ohio. Filed Feb. 14, 1950.

The Cellar Shops

The words "The" and "Shops" are disclaimed.
For Glassware—Namely, Tableware, Stemware, Bowls, Vases, Pitchers, Perfume, Bottles, Decanter Sets, Beverage Sets, Pepper and Salt Shakers, Cocktail and Liquor Sets, Serving Trays, Coasters, and Candy Jars.
Claims use since Aug. 29, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 547,757. Norman Products Company, Columbus, Ohio. Filed Jan. 22, 1948.

Norman Southerner

The drawing is lined for shading. Applicant claims ownership of Registration No. 99,456.
For Gas-Fired House Heaters Having Heat-Exchanging Tubes Across Which Air Is Passed Under Forced Flow.
Claims use since May 23, 1947.

Ser. No. 556,364. Brice G. Peters, Baltimore, Md., assignor to Dryomatic Corporation of America, Baltimore, Md. Filed May 6, 1948.

DryoMagic

For Apparatus for Extracting Moisture From Air for Dehumidification Purposes.
Claims use since Apr. 16, 1948.

Ser. No. 560,603. Carrier Corporation, Syracuse, N. Y. Filed July 2, 1948.

HUMIDRY

For Dehumidifying Units for Removing Moisture From Air.
Claims use since June 8, 1948.

Ser. No. 584,306. Wigwam Flue Top Company, Abington, Mass. Filed Aug. 31, 1949.

THERMCAP

For Metal Chimney Tops.
Claims use since May 24, 1949.

Ser. No. 585,947. Logan Co., Louisville, Ky. Filed Oct. 7, 1949.

Velvolite

For Fireplace Screens.
Claims use since Sept. 7, 1949.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 583,721. Wabash Manufacturing Company, Chicago, Ill. Filed Aug. 19, 1949.

WABASH

The lining is for shading only. Applicant claims ownership of Registration No. 435,821.
For Hose Made of Rubber or Fabric, or a Combination Thereof.
Claims use since May 1944.

Ser. No. 596,270. Crotty Corporation, Quincy, Mich. Filed Apr. 25, 1950.

YANKEEPAK

For Gasket or Sealing Material Used as an Anti-Squeak Cushion Between Two Surfaces.
Claims use since Jan. 20, 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 526,029. Western Tablet & Stationery Corporation, Dayton, Ohio. Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Sept. 4, 1948.

The lining on the drawing is for shading only. No claim is made to the words "Egg Shell."
For Paper Tablets.
Claims use since 1910.

Ser. No. 559,410. West Virginia Pulp and Paper Company, New York, N. Y. Filed Feb. 21, 1948.

Westvaco

Applicant claims ownership of Registrations Nos. 119,848 and 172,266.
For Book Papers, Writing Papers, Printing Papers, Sanitary Paper in the Form of Sheets or Rolls for Wrapping Food and for Making Food Containers and Converting Papers.
Claims use since 1917.

Ser. No. 584,743. The American Binder Company, Inc., New York, N. Y. Filed Sept. 13, 1949.

PERMO "SIDE-KICK"

For Magnetized Memo Box Containing Writing Paper and Pencil.
Claims use since June 22, 1949.

Ser. No. 591,463. B. K. Elliott Company, Pittsburgh, Pa. Filed Jan. 26, 1950. (Sec. 2f.)

FULTON

Applicant claims ownership of Registration No. 356,983.
For Blue Print Paper.
Claims use since May 15, 1910.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 555,370. Bradbury, Agnew & Co. Limited, London, England. Filed Apr. 23, 1948.

MR. PUNCH

Applicant claims ownership of British Registration No. 421,304, dated Dec. 7, 1921.
For Printed Periodical.

Ser. No. 579,517. Ruhm Phosphate & Chemical Company, Mount Pleasant, Tenn. Filed May 25, 1949.

For Periodicals.
Claims use since July 15, 1946.

Ser. No. 580,005. Charles Robert Walter, Cleveland, Ohio. Filed June 4, 1949.

CLEAN FUN

For Cartoon Mats for Newspapers.
Claims use since May 18, 1949.

Ser. No. 580,925. Connecticut General Life Insurance Company, Hartford, Conn. Filed June 23, 1949. (Sec. 2f.)

Notes and Quotes

For Magazines or Periodicals Published Monthly.
Claims use since January 1939.

Ser. No. 588,228. Norcross, Inc., New York, N. Y. Filed Nov. 23, 1949.

Flowers on Parade

The word "Flowers" is disclaimed.
For Greeting Cards, Printed Greeting Folders, Printed Seals, and Printed Decorative Tags.
Claims use since Oct. 31, 1949.

Ser. No. 588,531. Skyline Publications, Inc., New York, N. Y. Filed Nov. 29, 1949.

Gibby Gazette & Atomic Times

The word "Gazette" is disclaimed.
For Section of a Periodical Publication.
Claims use since 1946.

Ser. No. 588,847. American Water Works Association, Inc., New York, N. Y. Filed Dec. 6, 1949.

Willing Water

The word "Water" is disclaimed.
For Bulletin.
Claims use since Nov. 30, 1949.

Ser. No. 589,637. Caro Book Company, Pittsburgh, Pa. Filed Dec. 20, 1949.

Billy Bing's NUMBER KING MONTHLY

The words "Number" and "Monthly" are disclaimed. The name "Billy Bing" is fanciful and does not identify any particular living individual.
For Publication Issued Monthly.
Claims use since June 15, 1935.

Ser. No. 590,014. Earl & Arlington, San Francisco, Calif. Filed Dec. 28, 1949.

Earlcraft

For Gift and Shower Printed Greeting Cards.
Claims use since July 1945.

Ser. No. 590,042. Rudolf R. Von Siegl, Stonecrest, N. Y. Filed Dec. 28, 1949.

PANORAMAP

For Maps.
Claims use since June 24, 1949.

CLASS 39

CLOTHING

Ser. No. 512,710. Sears, Roebuck and Co., Chicago, Ill. Original filed, act of 1905, Nov. 15, 1946; amended to application under act of 1946, Principal Register, Nov. 14, 1950.

Charmode

For Slips, Nightgowns, Corsets, Foundation Garments, Girdles, Brassières, Garter Belts, Drawers, Camisoles, and Petticoats.
Claims use since June 25, 1929.

Ser. No. 545,227. Brand and Puritz, Kansas City, Mo. Filed Dec. 23, 1947.

MARY-LANE

The name "Mary Lane" is fictitious and fanciful. Applicant claims ownership of Registration No. 314,476.
For Ladies' Coats and Suits.
Claims use since Jan. 1, 1930.

Ser. No. 561,379. Continental Mills, Inc., Philadelphia, Pa. Filed Jan. 22, 1948.

CONTINENTAL

Coba

Applicant claims ownership of Registration No. 365,058.
For Men's, Women's, Boys', Girls', Children's, and Infants' Overcoats, Topcoats, Coats, Suits, Vests, Trousers, Slacks, Cloaks, Capes, Coat Sets, and Legging Sets, All Made of Textile Fabrics.
Claims use since Aug. 5, 1938.

Ser. No. 578,921. Burcal, Burbank, Calif. Filed May 16, 1949.

Burcal

For Men's and Boys' Suits, Coats, Jackets, Pants, Dress Shirts, Sport Shirts, T Shirts, Topcoats, Raincoats, Sweaters, Pajamas, Rubbers, Boots, Shoes, Hose, Hats, Bathing Suits and Trunks, Beach Robes, and Neckties; Women's and Girls' Suits, Coats, Dresses, Sweaters, Skirts, Blouses, Jackets, Housecoats, Hosiery, Raincoats, Rain Hats, Rubbers, Boots, Nurses' Uniforms, Slips, Night Gowns, Pajamas, Panties, Brassières, T Shirts, Girdles, Dressing Robes, Under Shorts, Under Shirts, Jeans, Bathing Suits, Beach Robes, Fur Coats, Fur Scarfs, and Fur Jackets; Infants' Diapers, Shawls, Under Shirts, Night Gowns, Sacques, Robe Sets, Training Pants, Anklets, Shoes, Slipper Socks, Booties, Sweaters, and Bonnets.
Claims use since Apr. 20, 1949.

Ser. No. 588,773. The Schafer Company, Inc., Decatur, Ind. Filed Dec. 3, 1949.

SCHAFER Big Mike

The portrait is fanciful. The surname "Schafer" is disclaimed.
For Gloves Made of a Combination of Leather and Fabric.
Claims use since Nov. 23, 1949.

Ser. No. 592,213. Loomtogs, Inc., New York, N. Y. Filed Feb. 9, 1950.

Yeoman

For Ladies' Shirts and Blouses, Except Middy Blouses.
Claims use since Dec. 1, 1949.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 578,478. Arkwright Merchandising Corporation, New York, N. Y. Filed May 10, 1949.

MADE TO OUR SPECIFICATIONS Charm House BRAND

The words "Made to Our Specifications" and "Brand" are disclaimed.
For Curtains—Namely, Shower Curtains, Window Curtains, Curtains for Doorways, Fabric Bath Mats, and Furniture Scarfs.
Claims use since June 2, 1944.

CLASS 43

THREAD AND YARN

Ser. No. 582,519. The Chemstrand Corporation, Philadelphia, Pa. Filed July 26, 1949.

CHEMSTRAND

For Yarns, Threads, and Yarn and Thread Filaments.
Claims use since July 19, 1949.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 563,222. The Scholl Mfg. Co., Inc., Chicago, Ill. Filed Aug. 11, 1948.

Rite-Poise

For Arch Supports.
Claims use since Apr. 1, 1948.

Ser. No. 566,147. Herz Manufacturing Corporation, New York, N. Y. Filed Sept. 30, 1948.

GOLDEN WEST

For Toothpicks.
Claims use since 1907.

Ser. No. 566,148. Herz Manufacturing Corporation, New York, N. Y. Filed Sept. 30, 1948.

PARAGON

For Toothpicks.
Claims use since 1907.

Ser. No. 566,616. Johnson & Johnson, New Brunswick, N. J. Filed Oct. 7, 1948. (Sec. 2f.)

WOOD'S

For Emergency Kits for First-Aid Use in Accidents, and Including First-Aid Supplies Such as Bandages, Surgical Dressings, Gauze Pads, Surgical Cotton, Surgical Gauze, and the Like.
Claims use since 1891.

Ser. No. 572,025. Dermetics, Inc., New York, N. Y. Filed Jan. 12, 1949.

MIST-O-LATOR

For Atomizers and Sprayers for Liquids Used in the Nose, Throat, and Mouth.
Claims use since Dec. 6, 1948.

Ser. No. 572,149. The Amalgamated Dental Company Limited, London, England. Filed Jan. 14, 1949. (Sec. 2f.)

ASH, ENGLAND

For Dental Instruments—Namely, Tooth Extracting Forceps; Long Handled Instruments—Namely, Burnishers, Carvers, Chisels, Excavators, Lancets, Mallet Points, Plastic Fillings, Probes (Explorers), Scalers, Scalpels, Spatulas, Stoppers, and Trimmers; and Tweezers.
Claims use since January 1924 in Great Britain; and since January 1924 in commerce between Great Britain and the United States which may lawfully be regulated by Congress.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 578,216. Perkins Products Company, Chicago, Ill. Filed May 4, 1949.

Black Magic

For Non-Alcoholic, Non-Cereal, Maltless Carbonated and Non-Carbonated Beverages Sold as Soft Drinks and Syrups and Extracts for Making the Same.
Claims use since Feb. 17, 1949.

Ser. No. 589,431. Cott Beverage Corporation, New Haven, Conn., a corporation of Delaware, assignee of Cott Beverage Corporation, a corporation of New York. Filed Dec. 16, 1949. (Sec. 2f.)

Cott

For Nonalcoholic Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 15, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 513,685. R & G Milk Products, Inc., New York, N. Y. Original filed, act of 1905, Dec. 4, 1946; amended to application under act of 1946, Principal Register, Nov. 25, 1949.

Mardi Gras

The drawing is lined for shading only.
For Ice Cream.
Claims use since August 1946.

Ser. No. 526,215. Five Acres Farm, Telford, Pa. Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Supplemental Register, Nov. 2, 1948; amended to Principal Register, Dec. 6, 1949. (Sec. 2f.)

The representation of the man is fanciful. The wording "Penna. Dutch Products" is disclaimed.
For Piccalilli, Jams, Jellies, Canned Vegetables, Canned Fruits, Fruit Juices, Candy, Frozen Fruits, Frozen Vegetables, Cakes, Pies, Bread, Cookies, Doughnuts, and Buns.
Claims use since Jan. 15, 1947.

Ser. No. 531,321. Far Eastern Manufacturing Company, Long Island City, New York. Filed Aug. 14, 1947. (Sec. 2f.)

FAR EASTERN

For Shredded Coconut.
Claims use since Jan. 1, 1922.

Ser. No. 532,192. Armour and Company, doing business under the trade style Armour Creameries, Chicago, Ill. Filed Aug. 23, 1947.

RI-CHEDDA

"Chedda" is disclaimed.
For Cheese Food Spread.
Claims use since May 29, 1947.

Ser. No. 532,418. Keeley Candy Company, Madison, Wis. Filed Aug. 25, 1947. (Sec. 2f.)

KEELEY'S OLD FASHION

Applicant claims ownership of Registrations Nos. 244,998 and 265,681.
For Candy.
Claims use since Apr. 25, 1913.

Ser. No. 535,734. Ben Myerson, operating as Ben Myerson Candy Co., Los Angeles, Calif. Filed Sept. 25, 1947.

HEY BEN NIE! HEY

Applicant claims ownership of Registration No. 353,679.
For Candy.
Claims use since Sept. 3, 1947.

Ser. No. 536,855. Western Dairy Products, Inc., San Francisco, Calif. Filed Oct. 4, 1947.

The representations of the eggs are disclaimed. The picture of the man is fanciful.
For Fresh Eggs.
Claims use since May 16, 1947.

Ser. No. 539,057. Frederick W. Huber, Inc., New York, N. Y. Filed Oct. 25, 1947.

FREDERICK W. HUBER, INC. fwh NEW YORK

The name "Frederick W. Huber" is that of the original founder of the applicant who is now deceased. The name "New York" is disclaimed. The mark as shown appears with an orange background and the letters "fwh" are outlined in brown. Applicant claims ownership of Registration No. 263,366.
For Pie Fillings; Doughnut and Pastry Fillings; Fondant for Icing; Jellies, Fruit; Mince Meat; Icing Bases; Preserves, Fruit; Jams, Fruit; Baking Powder; Imitation Cinnamon; Flour—Namely, Pancake, Doughnut, and Waffle; Mixes—Namely, Muffin, Gingerbread, Cake, Doughnut, and Biscuit; Gelatin Desserts; Poppy Butter; Food Flavoring Emulsions; Pudding Powders.
Claims use since Oct. 1, 1945.

Ser. No. 544,161. Isaac Gellis, Inc., New York, N. Y. Filed Dec. 12, 1947. (Sec. 2f.)

ISAAC GELLIS

"Isaac Gellis" is the name of the deceased member of the present applicant's business; said Isaac Gellis died about forty-two years ago. The representation of the Star of David and the expression "Inc." are disclaimed.
For Sausage, Salami, Bologna, Pastrami, Corned Beef, and Tongue.
Claims use since Dec. 31, 1872.

Ser. No. 544,205. Schindler's Peanut Products, Inc., Washington, D. C., and Baltimore, Md. Filed Dec. 12, 1947.

EATMORE

Applicant claims ownership of Registration No. 224,929.
For Peanut Butter Sandwiches.
Claims use since January 1923.

Ser. No. 554,976. Hemet Packing Company, Hemet, Calif. Filed Apr. 19, 1948.

DIAMOND VALLEY

For Canned Fruits.
Claims use since 1910.

Ser. No. 558,624. Blue Lake Packers, Inc., Salem and West Salem, Oreg. Filed June 7, 1948.

Red Spot

For Canned Fruits, Berries, and Vegetables.
Claims use since January 1938.

Ser. No. 559,648. Steven Candy Kitchens, Inc., Chicago, Ill. Filed June 18, 1948.

SNOW CAPS

For Candies.
Claims use since May 1934.

Ser. No. 560,322. Cudahy Brothers Co., Cudahy, Wis. Filed June 28, 1948.

PIC

For Canned Pork Luncheon Meat.
Claims use since Aug. 8, 1946.

Ser. No. 560,364. Sunspiced Vegetables, Inc., Vacaville, Calif. Filed June 28, 1948.

SUNSPICED

Applicant claims ownership of Registration No. 438,959.
For Dried Onions.
Claims use since Nov. 18, 1945.

Ser. No. 563,648. Eleanor Wynne, doing business under the assumed name of Ellen Gray, New York, N. Y. Filed Aug. 17, 1948.

The drawing is lined for the color red.
For Canned Soups.
Claims use since Nov. 1, 1943.

Ser. No. 568,659. The Procter & Gamble Company, Cincinnati, Ohio. Filed Nov. 12, 1948.

SOYMAR

For Edible Vegetable Oil.
Claims use since Oct. 12, 1948.

Ser. No. 573,102. South Pacific Canning Company, Long Beach, Calif. Filed Jan. 31, 1949.

The representation of the fish is disclaimed per se.
For Canned Mackerel.
Claims use since Dec. 27, 1948.

Ser. No. 580,086. Moorman Manufacturing Company, Quincy, Ill. Filed June 7, 1949. (Sec. 2f.)

Grofat

Applicant claims ownership of Registration No. 405,093.
For Mineral Feed for Cattle.
Claims use since May 1922.

Ser. No. 580,087. Moorman Manufacturing Company, Quincy, Ill. Filed June 7, 1949. (Sec. 2f.)

Gro Fast

Applicant claims ownership of Registration No. 405,094.
For Mineral Feed for Cattle and Cows.
Claims use since 1922.

Ser. No. 582,711. Arnold Vogl, doing business under the name and style of Epicure Fine Foods Co., Eastport, Maine. Filed July 29, 1949.

LORETTA

For Canned Fish.
Claims use since 1941.

Ser. No. 583,053. Sally Ann Cookies, Fox River Grove, Ill. Filed Aug. 5, 1949.

The picture of the girl shown on the drawing is fanciful. The word "Cookies" is disclaimed.
For Baked Cookies.
Claims use since July 6, 1948.

Ser. No. 583,400. Kaw Dehydrating Company, Topeka, Kans., assignor to Kaw Dehydrating Company, Topeka, Kans., a corporation of Kansas. Filed Aug. 12, 1949. The representation of an Indian is fanciful.

Kaw

For Ingredients of Feeds—Namely, Dehydrated Alfalfa Meal for Feed Mixtures for Poultry and Animals, Namely Chickens, Ducks, Geese, Turkeys, Rabbits, Horses, Cattle, Swine, Sheep, and Goats.
Claims use since June 29, 1949.

Ser. No. 587,339. L. T. Malone, doing business as L. T. Malone Co., Phoenix, Ariz. Filed Nov. 4, 1949. (Sec. 2f.)

ARID-ZONE

Applicant claims ownership of Registration No. 415,271.
For Fresh Vegetables and Melons.
Claims use since May 26, 1944.

Ser. No. 587,374. F. M. Candy Corporation, Brooklyn, N. Y. Filed Nov. 2, 1949.

Applicant claims ownership of Registration No. 255,948.
For Confectionery—Namely, Candies, Glazed Fruits; Sweetmeats—Namely, Fruit Preserves, Jellies; Candied, Salted, Shelled, and Unshelled Nuts; and Steamer Baskets of Fresh Fruits, Shelled and Unshelled Nuts, and Candies.
Claims use since June 1928.

Ser. No. 587,524. Edward A. Ash, doing business as Eddie Ash's Homestead Groves, Goulds, Fla. Filed Nov. 9, 1949.

The words "Groves" and "Only the Finest Tropical Fruits" are disclaimed.
For Fresh Deciduous Fruits.
Claims use since July 15, 1949.

Ser. No. 587,941. Dinah's Restaurant, Oklahoma City, Okla. Filed Nov. 17, 1949.

For Barbecue Sauce and Barbecued Beans.
Claims use since Aug. 1, 1947.

Ser. No. 587,999. Barbecue Jake, Inc., Belleville, Ill. Filed Nov. 18, 1949.

Barbecue Jake

The word "Barbecue" is disclaimed.
For Horseradish, Barbecue Sauce, and Senf Gurken.
Claims use since July 1, 1940.

Ser. No. 588,481. Delaware Mushroom Cooperative Association, Wilmington, Del. Filed Nov. 29, 1949. (Sec. 2f.)

DELAWARE KITCHEN

For Canned Mushrooms.
Claims use since January 1939.

Ser. No. 591,073. Delta Products Company, Wilson, Ark. Filed Jan. 19, 1950.

DELGRADE

For Oleomargarine.
Claims use since Nov. 7, 1949.

Ser. No. 591,084. Parker Early Houck, doing business as Parker-Taylor, Brentwood, Md. Filed Jan. 19, 1950.

Lady Mary Margaret

For Candy.
Claims use since Mar. 1, 1947.

Ser. No. 591,483. International Milling Company, Minneapolis, Minn. Filed Jan. 26, 1950.

CHIEF PONTIAC

Applicant claims ownership of Registration No. 125,562.
For Wheat Flour for Human Consumption.
Claims use since August 1900.

Ser. No. 592,170. Switzer Licorice Company, St. Louis, Mo. Filed Feb. 8, 1950.

Buttermels

Applicant claims ownership of Registration No. 70,061.
For Candy.
Claims use since 1910.

Ser. No. 592,378. H. B. Murphy Company, Brawley, Calif. Filed Feb. 13, 1950.

CITATION

For Fresh Vegetables.
Claims use since Jan. 11, 1950.

Ser. No. 594,845. The Jolly Rancher, Golden, Colo. Filed Mar. 29, 1950.

The Jolly RANCHER

For Candies and Frozen Desserts—Namely, Ice Cream, Custards, and Sherbets.
Claims use since June 1, 1949.

CLASS 47

WINES

Ser. No. 577,098. S. A. Chianti Ruffino, Brescia, Italy. Filed Apr. 14, 1949. (Sec. 2f.)

I. L. RUFFINO

The mark "I. L. Ruffino" is derived from the initials of Ilario & Leopoldo Ruffino, applicant's predecessors, both of whom are deceased. Applicant claims ownership of Registration No. 309,913.
For Wines.
First used in 1920 in Italy; and first used in commerce between Italy and the United States which may lawfully be regulated by Congress in 1933.

Ser. No. 577,099. S. A. Chianti Ruffino, Brescia, Italy. Filed Apr. 14, 1949. (Sec. 2f.)

I. L. Ruffino

The mark "I. L. Ruffino" is derived from the initials of Ilario & Leopoldo Ruffino, applicant's predecessors, both of whom are deceased. Applicant claims ownership of Registration No. 309,913.
For Wines.
Claims use since 1933; and first used in commerce between Italy and the United States which may lawfully be regulated by Congress since 1933.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 594,963. Galveston-Houston Breweries, Inc., Galveston, Tex. Filed Mar. 31, 1950.

Southern Select BEER

The words "Select Beer" are disclaimed. Applicant claims ownership of Registrations Nos. 301,299 and 301,774.
For Beer.
Claims use since Jan. 17, 1950.

Ser. No. 594,964. Galveston-Houston Breweries, Inc., Galveston, Tex. Filed Mar. 31, 1950.

Applicant claims ownership of Registrations Nos. 301,299 and 301,774.
For Beer.
Claims use since Jan. 17, 1950.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 519,866. Ellena Brothers, Etiwanda, Calif. Original filed, act of 1905, Mar. 31, 1947; amended to application under act of 1946, Principal Register, Jan. 9, 1948.

ELLENA BROTHERS · EB · CUCAMONGA DISTRICT ETIWANDA CALIF.

The words "Ellena Brothers, Cucamonga District, Etiwanda, Calif." are disclaimed. Applicant claims ownership of Registrations Nos. 388,164, 517,614, and 517,615.
For Brandy.
Claims use since 1943.

Ser. No. 552,153. London & Company, Inc., Elizabeth, N. J. Filed Mar. 17, 1948.

The portrait shown on the drawing is fanciful. The Hebrew words shown on the top margin of the label mean "Keeper or Officer of the Drinks"; "Aliyah" means "Going up to Zion" and the Hebrew words shown on the portrait mean "Kosher Blended Whiskey." All wording, with the exception of "Aliyah," is disclaimed.
For Whiskey.
Claims use since Mar. 1, 1948.

Ser. No. 568,812. Sociedade Lusitana de Destilação, Limitada, Lisbon, Portugal. Filed Nov. 15, 1948.

BALTI

Applicant claims ownership of Portugese Registration No. 65,717, dated July 12, 1948.
For Brandy.

Ser. No. 575,628. Cockburn & Co. (Leith) Limited, Edinburg, Scotland and London, England. Filed Mar. 18, 1949.

The drawing is lined for shading purposes only. Applicant claims ownership of British Registration No. 665,475, dated Jan. 1, 1948.
For Scotch Whiskey.

Ser. No. 597,152. Leroux and Company, Inc., Philadelphia, Pa. Filed May 9, 1950.

MAXIM

For Alcoholic Liqueurs.
Claims use since Apr. 14, 1950.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 550,008. Adler Silhouette Letter Co., Chicago, Ill. Filed Feb. 18, 1948. (Sec. 2f.)

Remova-Panel

For Display Signs.
Claims use since July 20, 1940.

Ser. No. 550,009. Adler Silhouette Letter Co., Chicago, Ill. Filed Feb. 18, 1948. (Sec. 2f.)

THIRD DIMENSION

For Individual Demountable Display Sign Characters.
Claims use since July 1, 1940.

Ser. No. 550,750. Société à Responsabilité Limitée Comptoir de L'Industrie Cotonniere, Paris, France. Filed Feb. 27, 1948.

CHRISTIAN DIOR

Applicant claims ownership of French Registration No. 382,861, dated Jan. 7, 1948.
For Dressmaker's Forms.

Ser. No. 552,061. Irving Machleder, doing business under the name of Flexcraft Industries, New York, N. Y. Filed Mar. 16, 1948.

Flex-

Applicant claims ownership of Registration No. 508,419.
For Plastic-Work Kits Consisting of Portable Box-Like Containers, Each Kit Being Fitted With a Jar or Jars of Liquid Plastic; Also Jars of Paints, Paint Cleaners, Paint Thinners and Paint Brushes; as Well as Pans, Clay Blocks, Wire, Tape and Ornaments; Together With Similar Materials for Making Artificial Flowers, Costume Decorations, Figures Such as Animals, Comic Characters, and Other Designs.
Claims use since June 3, 1946.

Ser. No. 562,651. Mid-West Bottle Cap Co., Belvidere, Ill. Filed July 31, 1948. (Sec. 2f.)

Kuwer TOP

Applicant claims ownership of Registrations Nos. 249,543 and 530,231.
For Dairy Bottle Caps.
Claims use since Oct. 12, 1936.

Ser. No. 564,124. Holland-Rantos Co., Inc., New York, N. Y. Filed Aug. 25, 1948.

"PELVI-FORM"

The word "Form" is disclaimed.
For Clinical Teaching Model of the Human Anatomy.
Claims use since Apr. 9, 1948.

Ser. No. 581,915. Sunmaster Products Co., San Bruno, Calif. Filed July 13, 1949.

=Step Master=

For Step-Ladders Made of Metal and Wood.
Claims use since May 12, 1949.

Ser. No. 585,629. Buxbaum Company, Canton, Ohio, assignor to Buxbaum Company, Canton, Ohio, a corporation of Ohio. Filed Oct. 1, 1949.

Akro

Applicant claims ownership of Registration No. 304,561.
For Household Rubber Mats.
Claims use since July 18, 1949.

Ser. No. 588,221. Emil Kronmann, Copenhagen, Denmark. Filed Nov. 23, 1949.

KRON
Copenhagen
EK

The word "Copenhagen" is disclaimed. Applicant claims ownership of Danish Registration No. 1521/48, dated Nov. 13, 1948.
For Art Porcelain and Stoneware Figures of Humans, Animals, and Flowers, Not Ornamented With Precious Metals.

Ser. No. 591,332. Beatrice McLaughlin, Newton Square, Pa. Filed Sept. 21, 1949.

TOUCHSTONE

For Figurines.
Claims use since October 1946.

Ser. No. 591,415. Leonard Freedman & Sons, New York, N. Y. Filed Jan. 25, 1950.

TEXRYTE

For Artificial Leather.
Claims use since Nov. 1, 1949.

Ser. No. 592,171. Edward J. Towns, West Orange, N. J., assignee of Towns Quality Products, Inc. Filed Feb. 8, 1950.

TOWN TOP

The word "Top" is disclaimed.
For Bottle Closures.
Claims use since Oct. 26, 1949.

Ser. No. 593,195. Vernon-Benshoff Company, Pittsburgh, Pa. Filed Feb. 28, 1950.

"TREASURE BLOCK"

The word "Block" is disclaimed.
For Block of Transparent Plastic Material in Which Is Embedded an Insect, Flower, Photograph, or the Like.
Claims use since Sept. 15, 1949.

Ser. No. 593,972. Certified Dry Mat Corporation, New York, N. Y. Filed Mar. 15, 1950.

REMBRANDT

Applicant claims ownership of Registration No. 199,942.
For Matrix, Dry Mat, or Board Used in Stereotyping or Electrotyping.
Claims use since Apr. 30, 1949.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 540,156. Beauty Products, Ltd., Denver, Colo. Filed Nov. 5, 1947. (Sec. 2f.)

DRY -O- SCENT

For Deodorant To Be Applied to the Skin.
Claims use since Aug. 1, 1937.

Ser. No. 571,540. Kiva Hoffman, Sherman Oaks, Calif. Filed Jan. 3, 1949. (Sec. 2f.)

Shado-Lite

For Facial High Light Make-Up Base.
Claims use since June 15, 1941.

Ser. No. 573,357. M. S. Chapell, West Orange, N. J. Filed Feb. 5, 1949.

BOVAY

For Hair Tonic.
Claims use since Jan. 20, 1949.

Ser. No. 580,917. Elizabeth Arden Sales Corporation, New York, N. Y. Filed June 23, 1949. (Sec. 2f.)

EIGHT HOUR

Applicant claims ownership of Registration No. 290,769.
For Skin Cream.
Claims use since Aug. 12, 1930.

Ser. No. 586,447. Evelyn Westall, doing business as Parfums Evyan Co., New York, N. Y., assignor to Parfums Evyan Inc., a corporation of New York. Filed Oct. 17, 1949.

Tiny Waist

For Perfume.
Claims use since Oct. 14, 1949.

Ser. No. 588,625. George A. Banks, Wheeling, W. Va. Filed Dec. 1, 1949.

RESTRAIN

For Personal Deodorant.
Claims use since Nov. 14, 1949.

Ser. No. 589,898. Goya Limited, London, England, assignor to Goya Incorporated, New York, N. Y. Filed Dec. 24, 1949.

YACHTING

Applicant claims ownership of British Registration No. 630,235, dated July 3, 1944.
For Perfumes and Toilet Waters.

Ser. No. 590,522. Q-Tips, Inc., Long Island City, N. Y. Filed Jan. 7, 1950.

Q-things

Applicant claims ownership of Registration No. 309,256.
For Certain Toilet Accessories for Infants—Namely, Talcum Powder, Baby Oil, and Skin Cream.
Claims use since Sept. 1, 1949.

Ser. No. 596,185. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Apr. 22, 1950.

HOSPI-LOTION

The word "Lotion" is disclaimed. The mark is imprinted in white on a red background as indicated by the lining for red on the drawing.
For Toilet Preparation—Namely, a Lotion for the Relief of Chapped and Rough Skin.
Claims use since Feb. 16, 1934.

Ser. No. 596,186. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Apr. 22, 1950.

LAVENDOL

The drawing is lined for the color red.
For Toilet Preparation—Namely, a Perfected Skin Lotion.
Claims use since Jan. 1, 1932.

Ser. No. 596,190. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Apr. 22, 1950.

NYREL

The drawing is lined for red.
For Toilet Preparation—Namely, a Deodorant Cream.
Claims use since Dec. 26, 1939.

Ser. No. 596,779. Coty, Inc., New York, N. Y. Filed May 3, 1950.

SHAKTI

For Perfumed Powder, Dusting Powder, Toilet Water, and Perfume.
Claims use since Apr. 28, 1950.

SERVICE MARKS

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 537,636. The Travelers Insurance Company, Hartford, Conn. Filed Oct. 11, 1947.

THE TRAVELERS

For Underwriting Life, Accident, Health, Casualty, Fire, Marine and Inland Marine Insurance, and Fidelity, Surety and Guaranty Bonds, and in Counseling in Regard to Accident Prevention and Claims Administration.
Claims use since Mar. 1, 1865.

Ser. No. 591,713. Bankers Trust Company, New York, N. Y. Filed Jan. 31, 1950.

The lining is part of the mark which is a representation of the tower of Bankers Trust Company main building at 16 Wall Street, New York, N. Y.
For Banking and Trust Services, Comprising Commercial Banking, Such as Making of Loans and Discounts, Commercial and Individual Checking Accounts; Fiduciary Services Comprising, Acting as Agent and Trustee of Personal and Corporate Trusts Including Pension Trusts and Retirement Plans, Acting as Executor, Administrator, Guardian, Custodian, Registrar and Transfer Agent, and Dividend Paying Agent on Stocks of Corporations, Acting as Dealer in Government and Municipal Securities; and Other Miscellaneous Financial Services Incident to the Business of Commercial Banks and Trust Companies.
Claims use since May 20, 1912.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,361. Metal Can Closure Having a Lever by Which the Lid Is Lifted or Removed. Judson Dunaway Corporation, Dover, N. H.
Filed June 21, 1946, Serial No. 504,343. Published Aug. 29, 1950. Class 50.

444,362. Irradiation Apparatus—Namely, Lamps for Ultra-Violet and Infra-Red Rays, for Therapeutic Purposes. Belmag Zuerich, Beleuchtungs- und Metallindustrie A. G., Zurich, Switzerland.
Filed Nov. 20, 1946, Serial No. 512,894. Published Sept. 19, 1950. Class 44.

444,363. Hawaiian and Spanish Amplifying and Electric Guitars and Guitar Accessories—Namely, Cases, Picks, and Steels. Valco Manufacturing Company, Chicago, Ill.
Filed Nov. 26, 1946, Serial No. 513,280. Published Jan. 25, 1949. Class 36.

ACT OF 1920

These registrations are not subject to opposition.

444,364. (Class 19. Vehicles.) Lewin Road Sweepers Limited, West Bromwich, England. Filed June 4, 1946, Serial No. 503,256.

LEWIN

For Power Driven Vehicles for Collecting and Transporting Refuse.
Claims use since 1933.

ACT OF 1946, PRINCIPAL REGISTER

534,844. Overcoats and Topcoats for Men and Boys. The Joseph & Feiss Co., Cleveland, Ohio.
Original filed, act of 1905, Jan. 27, 1945; amended to application under act of 1946, Principal Register, Oct. 14, 1949, Serial No. 479,079. Published Sept. 26, 1950. Class 39.

534,845. Prepared Foods—Namely, Seasoning Mixture, Etc. The Cheneys, Los Angeles, Calif.
Original filed, act of 1905, Aug. 3, 1946; amended to application under act of 1946, Principal Register, Dec. 22, 1947, Serial No. 506,801. Published Aug. 1, 1950. Class 46.

534,846. Fresh Meat and Meat Cuts—Namely, Beef, Lamb, Veal and Pork, Etc. Armour and Company, Chicago, Ill.
Original filed, act of 1905, Aug. 21, 1946; amended to application under act of 1946, Principal Register, Dec. 27, 1947, Serial No. 507,708. Published Aug. 15, 1950. Class 46.

534,847. Men's Shoes and Sandals Made From Leather, Fabric, or Rubber Composition, or Combinations of Such Materials. Adler Sons Shoe Corp., New York, N. Y.
Original filed, act of 1905, Nov. 20, 1946; amended to application under act of 1946, Principal Register, Dec. 4, 1947, Serial No. 512,887. Published Sept. 5, 1950. Class 39.

534,848. Chocolate Bars. Chocolat Suchard Societe Anonyme, Neuchatel, Switzerland.
Original filed, act of 1905, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Dec. 30, 1947, Serial No. 517,034. Published Aug. 1, 1950. Class 46.

534,849. Metal Dust-Containing Compositions in the Nature of a Paint for Coating Metals—Namely, Resin-Metal Dust Coating Compositions and Alkali Silicate-Metal Dust Coating Compositions and Ingredients Therefor. Industrial Metal Protectives, Inc., Wilmington, Del., and Dayton, Ohio.
Original filed, act of 1905, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Aug. 8, 1947, Serial No. 517,060. Published Oct. 19, 1948. Class 16.

534,850. Coffee, Tea, Canned Evaporated Milk, Vacuum Packed Moist Cocoanut, Mince Meat, Evaporated Fruits, Etc. Reeves Parvin & Co., Philadelphia, Pa.
Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Sept. 8, 1947, Serial No. 525,401. Published Aug. 1, 1950. Class 46.

534,851. Gasoline and Other Motor Fuel Oils, Lubricating Oil and Grease. The Pure Oil Company, Chicago, Ill.
Filed July 5, 1947, Serial No. 527,354. Published Dec. 6, 1949. Class 15.

534,852. Specially Prepared Ferrous Metal Products, Not Capable of General Use—Namely, Sheets, Etc. The American Rolling Mill Company, Middletown, Ohio, now by change of name Armco Steel Corporation.
Filed July 5, 1947, Serial No. 527,716. Published Aug. 15, 1950. Class 12.

534,853. Specially Prepared Ferrous Metal Products, Not Capable of General Use, Etc. The American Rolling Mill Company, Middletown, Ohio, now by change of name Armco Steel Corporation.
Filed July 5, 1947, Serial No. 528,033. Published Aug. 15, 1950. Class 12.

534,854. Women's Shoes. Evins, Inc., New York, N. Y.
Filed July 21, 1947, Serial No. 528,997. Published Sept. 5, 1950. Class 39.

534,855. Rolled Oats. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn.
Filed July 26, 1947, Serial No. 529,627. Published Aug. 1, 1950. Class 46.

534,856. Marble Cut to Size, Finished Marble, and Cut Stone. The Georgia Marble Company, Tate, Ga.
Filed July 26, 1947, Serial No. 529,631. Published Aug. 29, 1950. Class 12.

534,857. Cleaning Compound—Namely, Pumice Soap Used for Cleaning Automobile Tire Walls. Los Angeles Soap Company, Los Angeles, Calif.
Filed Aug. 7, 1947, Serial No. 530,745. Published Sept. 19, 1950. Class 52.

534,858. Ejectors, Sewage Ejectors, Pneumatic Valves for Use in the Control Systems of Pneumatic Ejectors and Pumps, Pneumatic Pumps and Ejectors for Conveying Solids, Liquids, and Semi-Liquids, and Controls Therefor. Yeomans Brothers Company, Chicago, Ill.
Filed Aug. 7, 1947, Serial No. 530,793. Published Sept. 19, 1950. Class 23.

534,859. Candies—Namely, Orange Slices, Cherry Drops, Mint Pillows, Etc. Lion Specialty Co., Chicago, Ill.
Filed Aug. 14, 1947, Serial No. 531,339. Published Aug. 1, 1950. Class 46.

534,860. Preparations for the Treatment of Gravel, Stone, and Other Manifestations of the Uric-Acid Diathesis, and to Control the Formation of Urates and for Use as an Urinary Antiseptic. The Midy Laboratories, (Inc.), New York, N. Y., assignor to Societe D'Etudes, De Recherches Et D'Applications Scientifiques Et Medicales, Paris, France, a society of France.
Filed Aug. 18, 1947, Serial No. 531,695. Published Dec. 7, 1948. Class 18.

534,861. Cushions Which Help Prevent Run-Over Heels. Trimfoot Company, Farmington, Mo.
Filed Sept. 4, 1947, Serial No. 533,421. Published Sept. 26, 1950. Class 39.

534,862. Men's Hats. Byer-Rolnick Company, Garland, Tex., assignor to Resistol Hats, Inc., Dallas, Tex., a corporation of Delaware.
Filed Sept. 9, 1947, Serial No. 533,845. Published Aug. 22, 1950. Class 39.

534,863. Loudspeakers. Quam-Nichols Company, Chicago, Ill.
Filed Sept. 13, 1947, Serial No. 534,470. Published Sept. 5, 1950. Class 21.

534,864. Denims in the Piece. Erwin Cotton Mills Company, Durham, N. C.
Filed Sept. 24, 1947, Serial No. 535,510. Published Sept. 5, 1950. Class 42.

534,865. Canned Vegetables. Stayton Canning Co. Co-Operative, Stayton, Oreg.
Filed Sept. 30, 1947, Serial No. 536,304. Published Aug. 1, 1950. Class 46.

534,866. Potatoes in Their Natural State, Potato Chips and Potato Flour. Potato Products Corporation, doing business under the style names of Potato Sales Co. and Potato Products Corp., Grand Forks, N. Dak.
Filed Oct. 29, 1947, Serial No. 539,435. Published Aug. 8, 1950. Class 46.

534,867. Fresh Dates and Stuffed Fresh Dates. Garden of the Setting Sun, Inc., Mecca, Calif.
Filed Nov. 4, 1947, Serial No. 540,065. Published Aug. 8, 1950. Class 46.

534,868. Fresh Deciduous Fruits. Vaughn Girazian, doing business as Vaughn Girazian & Son, Selma, Calif.
Filed Nov. 4, 1947, Serial No. 540,067. Published Aug. 1, 1950. Class 46.

534,869. Salt. Morton Salt Company, Chicago, Ill.
Filed Nov. 14, 1947, Serial No. 541,164. Published Aug. 8, 1950. Class 46.

534,870. Knitted Sweaters, Knitted and Woven Jackets and Sport Coats. Revere Knitting Mills, Inc., doing business as Bryant Knitting Mills, Malden, Mass.
Filed Nov. 15, 1947, Serial No. 541,341. Published Sept. 19, 1950. Class 39.

534,871. Women's and Misses' Underwear—Namely, Panties, Vests, and Slips; and Gowns for Night Wear. Belinda Undergarment Co., Inc., Brooklyn, N. Y.
Filed Nov. 18, 1947, Serial No. 541,497. Published Sept. 26, 1950. Class 39.

534,872. Pickles—Namely, Sweet Pickles, Home Style Dills, and Sour Pickles, Etc. Glaser, Crandell Co., Chicago, Ill.
Filed Dec. 2, 1947, Serial No. 542,915. Published Aug. 1, 1950. Class 46.

534,873. Sardines, Tunny Fish, and Anchovies. J. Naughton, Ltd., Lisbon, Portugal.
Filed Dec. 2, 1947, Serial No. 542,963. Published Aug. 8, 1950. Class 46.

534,874. Canned Beets. Aunt Nellie's Farm Kitchen, Inc., Clyman, Wis.
Filed Dec. 3, 1947, Serial No. 543,054. Published Aug. 8, 1950. Class 46.

534,875. Chamois Skins. S. M. Arnold, Inc., St. Louis, Mo.
Filed Dec. 5, 1947, Serial No. 543,403. Published Sept. 19, 1950. Class 1.

534,876. Brush Cleaners—Namely, a Shear-Like Comb in the Nature of a Tool Used to Remove Hair From Brushes. Julian John Raya, doing business as Ryaco Products of Hollywood, Hollywood, Calif.
Filed Dec. 8, 1947, Serial No. 543,748. Published Sept. 19, 1950. Class 23.

534,877. Irrigating and Aspirating Syringes Having a Glass Barrel and a Detachable Rubber Bulb, Etc. Meinecke & Company, New York, N. Y.
Filed Dec. 20, 1947, Serial No. 545,020. Published Aug. 29, 1950. Class 44.

534,878. Mechanically Operated Paper Towel Dispensers. Green Bay Paper Products Co., Inc., Green Bay, Wis.
Filed Jan. 7, 1948, Serial No. 546,388. Published Sept. 12, 1950. Class 23.

534,879. Shoes and Oxfords Made of Leather, Fabric, and Rubber and Combinations Thereof. W. B. Coon Company, Rochester, N. Y.
Filed Jan. 22, 1948, Serial No. 547,702. Published Sept. 12, 1950. Class 39.

534,880. Manicure Implements—Namely, Nail Files, Tweezers, Nail Clippers, Cuticle Shapers and Cleaners, Cuticle Scissors, and Blackhead Removers. The Wigder Manufacturing Co., Newark, N. J.
Filed Feb. 4, 1948, Serial No. 548,772. Published Sept. 19, 1950. Class 44.

534,881. Self-Hardening Organic Resin Composition, Used as a Bonding Cement for Acid-Proof Brick or Tile, and Ingredients for Preparing Such Cement, Etc. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Feb. 13, 1948, Serial No. 549,655. Published Sept. 12, 1950. Class 12.

534,882. Timing Gears. Dexter Machine Products, Inc., Chelsea, Mich.
Filed Mar. 3, 1948, Serial No. 551,091. Published Sept. 12, 1950. Class 23.

534,883. Cutting, Grinding, Tumbling, and Polishing Compounds. Joseph Lupo, doing business under the name and style of Associated Engineering Company, New York, N. Y.
Filed Mar. 10, 1948, Serial No. 551,843. Published Sept. 12, 1950. Class 4.

534,884. Agricultural Machines—Namely, Baling Machines. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed Mar. 20, 1948, Serial No. 552,559. Published Aug. 22, 1950. Class 23.

534,885. Putties—Namely, Wood Dough, Seam Compound, Surfacing Putty, and Metal Surfacers and Solvents for the Same. Webb Products Company, San Bernardino, Calif.
Filed Mar. 29, 1948, Serial No. 553,325. Published Aug. 29, 1950. Class 12.

534,886. Knitted Sportswear for Women—Namely, Sweaters and Suits Made in Whole or in a Substantial Part of Wool. Gotham Knitting Mills, Inc., New York, N. Y.
Filed Apr. 14, 1948, Serial No. 554,566. Published Sept. 12, 1950. Class 39.

534,887. Misses' and Juniors' Coats and Suits. The Mar-Kay Company, Dallas, Tex.
Filed Apr. 15, 1948, Serial No. 554,681. Published Sept. 26, 1950. Class 39.

534,888. Fresh Carrots. Merit Packing Company, Salinas, Calif., assignee of Lewis A. Terven Company.
Filed Apr. 19, 1948, Serial No. 555,024. Published Aug. 1, 1950. Class 46.

534,889. Refractory Bricks and Special Shapes of Clay Tile and Brick. General Refractories Company, Philadelphia, Pa.
Filed Oct. 23, 1947, Serial No. 555,869. Published Aug. 29, 1950. Class 12.

534,890. Masonry Cement. General Portland Cement Company, Chicago, Ill.
Filed Apr. 30, 1948, Serial No. 555,936. Published Aug. 29, 1950. Class 12.

534,891. Plate or Mat for Hot Plates. Howard L. Ross, doing business as Howard L. Ross Associates, New York, N. Y.
Filed May 8, 1948, Serial No. 556,600. Published Aug. 15, 1950. Class 50.

534,892. Glass Salt and Pepper Shakers. The Air Konditioning Company, Clermont, Fla., now by change of name Airko Manufacturing Co., a corporation of Florida.
Filed May 11, 1948, Serial No. 556,753. Published July 25, 1950. Class 33.

534,893. Consolidated Certificate. Mutual Dealers Wholesale Inc., St. Paul, Minn.

Chemical Weed Killer of Which the Active Ingredient is 2-4-Dichlorphenoxyacetic Acid or a Derivative Thereof, in Powder or Liquid Form. Filed May 19, 1948, Serial No. 557,373. Published July 11, 1950. Class 6.

House Paint, House Trim Paint, Barn Paint, Barn Paint Primer, Wagon Implement Enamel, and Aluminum Paint. Filed May 19, 1948, Serial No. 557,374. Published Mar. 21, 1950. Class 16.

Automotive Batteries, Farm Light Batteries, Spark Plugs, Ignition Coils, Voltage Regulators, and Battery Chargers. Filed May 19, 1948, Serial No. 557,376. Published Feb. 28, 1950. Class 21.

Oil Filters Used in Automotive Vehicles and the Like and Cartridges Therefor. Filed May 19, 1948, Serial No. 557,377. Published Apr. 11, 1950. Class 31.

Vehicle Brake Linings, Canvas and Rubber Belts and Belting. Filed May 19, 1948, Serial No. 557,375. Published Nov. 22, 1949. Class 35.

534,894. Ladies' and Misses' Coats and Suits. Arthur Levine, Inc. New York, N. Y.
Filed May 22, 1948, Serial No. 557,613. Published Sept. 5, 1950. Class 39.

534,895. Artificial Stone; Portland Cement, Magnesia Cement; Paving and Building Bricks, Blocks and Slabs; Etc. Vibro-Plus Corp., New York, N. Y.
Filed May 25, 1948, Serial No. 557,792. Published Aug. 15, 1950. Class 12.

534,896. Artificial Stone; Portland Cement, Magnesia Cement; Paving and Building Bricks, Blocks, and Slabs; Molds of Steel and Wood for Casting Concrete; and Prepared Mixture of Gravel and Macadam. Vibro-Plus Corp., New York, N. Y.
Filed May 25, 1948, Serial No. 557,794. Published Aug. 15, 1950. Class 12.

534,897. Coal Washing and Ore Concentrating Tables. The Deister Concentrator Company, Fort Wayne, Ind.
Filed May 27, 1948, Serial No. 557,910. Published Aug. 29, 1950. Class 23.

534,898. Metal Stays for Paper Boxes. National Metal Edge Box Company, Philadelphia, Pa.
Filed June 5, 1948, Serial No. 558,581. Published Sept. 26, 1950. Class 13.

534,899. Cologne, Perfume, Bath Oil, Bath Powder, Talcum Powder, Perfumed Water Softener, and Sachet Powder. Harriet Hubbard Ayer, Inc., New York, N. Y., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine.
Filed June 8, 1948, Serial No. 558,717. Published Sept. 12, 1950. Class 51.

534,900. Yarns Composed of a Mixture of Rayon and of Virgin Wool in Substantial Part. James Lees and Sons Company, Bridgeport, Pa.
Filed June 10, 1948, Serial No. 558,896. Published Sept. 12, 1950. Class 43.

534,901. Ladies' and Children's Princess Slips, Nightgowns, Pajamas, Bloomers, Step-Ins, Step-In Drawers, Chemises, and Children's Dresses of a Textile Fabric. I. Schneierson & Sons, Inc., New York, N. Y.
Filed June 10, 1948, Serial No. 558,931. Published Sept. 26, 1950. Class 39.

534,902. Men's Clothing, Specifically, Neckties, Lounging Robes, Smoking Jackets, Mufflers, Pajamas, and Handkerchiefs. Countess Mara, Inc., New York, N. Y.
Filed June 11, 1948, Serial No. 559,007. Published Aug. 22, 1950. Class 39.

534,903. Mechanical Refrigerator Units. Sears, Roebuck and Co., Chicago, Ill.
Filed June 16, 1948, Serial No. 559,334. Published Aug. 15, 1950. Class 31.

534,904. Vitamin-Containing Preparations for the Treatment of Vitamin Deficiencies. VCA Laboratories, Newark, N. J.
Filed June 25, 1948, Serial No. 560,237. Published July 25, 1950. Class 18.

534,905. Candy. Norris Inc., Atlanta, Ga.
Filed July 2, 1948, Serial No. 560,650. Published July 25, 1950. Class 46.

534,906. Soy Sauce. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed July 2, 1948, Serial No. 560,664. Published Aug. 1, 1950. Class 46.

534,907. Automobile Polish and Automobile Wax and Polish. Kocolene Company, Inc., Seymour, Ind.
Filed July 9, 1948, Serial No. 561,026. Published Sept. 19, 1950. Class 4.

534,908. Potatoes in Their Natural State. Grower-Shipper Potato Company, Monte Vista, Colo.
Filed July 13, 1948, Serial No. 561,234. Published Aug. 1, 1950. Class 46.

534,909. Women's Shoes. John Irving Shoe Corporation, Boston, Mass.
Filed July 13, 1948, Serial No. 561,243. Published Sept. 26, 1950. Class 39.

534,910. Lignite Coal. Truax-Traer Coal Company, Chicago, Ill.
Filed July 14, 1948, Serial No. 561,353. Published Sept. 12, 1950. Class 1.

534,911. **Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool—Namely, Plaid, Indian, Camping, Government, Army, Navy, Etc.** Beacon Manufacturing Company, Swannanoa, N. C.
Filed July 21, 1948, Serial No. 561,794. Published Sept. 12, 1950. Class 42.

534,912. **Crib Blankets.** Beacon Manufacturing Company, Swannanoa, N. C.
Filed July 21, 1948, Serial No. 561,797. Published Sept. 12, 1950. Class 42.

534,913. **Mechanical Viscous-Type Ventilating Air Filters, Etc.** American Air Filter Company, Inc., Louisville, Ky.
Filed July 23, 1948, Serial No. 561,999. Published Sept. 19, 1950. Class 31.

534,914. Hosiery; Sweaters; Shoes Made of Leather, Fabric, and Rubber, and Combinations Thereof, Etc. Dallas Wholesale Co., Ltd., Selma, Ala.
Filed July 28, 1948, Serial No. 562,330. Published Sept. 19, 1950. Class 39.

534,915. **Fire Brick.** Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Aug. 13, 1948, Serial No. 563,333. Published Sept. 12, 1950. Class 12.

534,916. **Fire Brick.** Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Aug. 13, 1948, Serial No. 563,335. Published Sept. 12, 1950. Class 12.

534,917. **Flat Oil Paints.** Sapolin Paints Inc., New York, N. Y.
Filed July 30, 1948, Serial No. 563,548. Published Sept. 5, 1950. Class 16.

534,918. **Acrylic Resin Denture Materials.** The L. D. Caulk Company, Milford, Del.
Filed Aug. 26, 1948, Serial No. 564,189. Published Sept. 19, 1950. Class 44.

534,919. **Rice.** Rodrigues y Compania, Habana, Cuba.
Filed Aug. 31, 1948, Serial No. 564,468. Published Aug. 1, 1950. Class 46.

534,920. **Seed Potatoes.** The Wilcoh Company, Moorhead, Minn.
Filed Sept. 3, 1948, Serial No. 564,671. Published Sept. 12, 1950. Class 1.

534,921. **Plastic Bristles for Brooms and Brushes.** Modglin Company, Inc., Los Angeles, Calif.
Filed Sept. 13, 1948, Serial No. 565,072. Published Sept. 19, 1950. Class 1.

534,922. **Lye.** The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Sept. 18, 1948, Serial No. 565,448. Published Sept. 19, 1950. Class 6.

534,923. **Lye.** The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Sept. 18, 1948, Serial No. 565,449. Published Sept. 19, 1950. Class 6.

534,924. **Concentrated Food Containing Proteins, Carbohydrates, Minerals, and Vitamins, Made From Fruits, Vegetables, and Meats, Sold in Tablet Form.** Hellmuth Erdhardt Heitz, London, England, assignor to Heitz Products Co. Limited, London, England.
Filed Sept. 24, 1948, Serial No. 565,782. Published Aug. 1, 1950. Class 46.

534,925. **Closures for Bottles and Jars.** Owens-Illinois Glass Company, Toledo, Ohio.
Filed Sept. 24, 1948, Serial No. 565,807. Published Aug. 15, 1950. Class 50.

534,926. **Pocket Knives.** Imperial Knife Company, Inc., Providence, R. I.
Filed Sept. 25, 1948, Serial No. 565,876. Published Sept. 19, 1950. Class 23.

534,927. **Tents.** Universal Enterprises, Los Angeles, Calif.
Filed Sept. 28, 1948, Serial No. 566,053. Published Aug. 29, 1950. Class 50.

534,928. **Coal.** The Capitol Fuel Company, Cleveland, Ohio.
Filed Sept. 30, 1948, Serial No. 566,120. Published Feb. 14, 1950. Class 1.

534,929. **Machines for Fabricating, Filling and Sealing Non-Metallic Cartons for Dairy Products.** Oswego Falls Corporation, Fulton, N. Y.
Filed Oct. 6, 1948, Serial No. 566,539. Published Sept. 19, 1950. Class 23.

534,930. **Dress Fasteners.** Columbia Fastener Company, Chicago, Ill.
Filed Oct. 14, 1948, Serial No. 566,975. Published Aug. 22, 1950. Class 40.

534,931. **Gummed Tape, Gummed Cloth and Gummed Paper in Strip and Roll Form for Sealing Purposes.** Hudson Pulp and Paper Corp., New York, N. Y.
Filed Oct. 21, 1948, Serial No. 567,403. Published Sept. 19, 1950. Class 5.

534,932. **Lace Piece Goods Sold by the Piece, Yard, or Bolt.** American Textile Company, Inc., Pawtucket, R. I.
Filed Oct. 23, 1948, Serial No. 567,480. Published Sept. 12, 1950. Class 42.

534,933. **Fresh Deciduous Fruits and Fresh Grapes.** Nelson Roper, Exeter, Calif.
Filed Oct. 23, 1948, Serial No. 567,539. Published Aug. 1, 1950. Class 46.

534,934. **Men's and Young Men's Coats, Vests, Trousers, and Overcoats.** Simon Ackerman Clothes, Inc., New York, N. Y.
Filed Oct. 27, 1948, Serial No. 567,670. Published Aug. 22, 1950. Class 39.

534,935. **Defrosting Mechanism for Refrigerating Systems.** C. V. Hill & Company, Inc., Trenton, N. J.
Filed Oct. 27, 1948, Serial No. 567,696. Published Aug. 29, 1950. Class 31.

534,936. **Insulation Board.** Paul W. Cecil, Oklahoma City, Okla.
Filed Oct. 25, 1948, Serial No. 567,840. Published Aug. 29, 1950. Class 12.

534,937. **Compressed Air Operated Foam Producing Apparatus, Etc.** The Scott & Fetzer Company, Cleveland, Ohio.
Filed Nov. 9, 1948, Serial No. 568,463. Published Aug. 29, 1950. Class 23.

534,938. **Ladies' Hosiery.** McCrory Stores Corporation, New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,746. Published Sept. 19, 1950. Class 39.

534,939. **Crib Sheets and Crib Pillow Cases.** McCrory Stores Corporation, New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,747. Published Sept. 12, 1950. Class 42.

534,940. **Diapers.** McCrory Stores Corporation, New York, N. Y.
Filed Nov. 17, 1948, Serial No. 568,965. Published Sept. 19, 1950. Class 39.

534,941. **Printer's Inks.** Tourangeau Ink Co., Minneapolis, Minn.
Filed Nov. 18, 1948, Serial No. 569,024. Published Sept. 12, 1950. Class 11.

534,942. **Laundry Bleaching Compound With Cleaning Properties.** William F. Love, doing business as Mercury Chemical Co., Corona, N. Y.
Filed Nov. 19, 1948, Serial No. 569,077. Published Sept. 12, 1950. Class 52.

534,943. **Maraschino Cherries.** Natural Sugars, Inc., doing business as Fruit Products Co., New York, N. Y., assignor to Fruit Products Corporation, a corporation of New York.
Filed Nov. 23, 1948, Serial No. 569,285. Published Aug. 1, 1950. Class 46.

534,944. **Textile Blankets, Comforts, Motor Robes, Steamer Robes, Nursery Blankets, and Chaise Longue Covers.** Carlin Comforts, Inc., New York, N. Y.
Filed Dec. 3, 1948, Serial No. 569,809. Published Aug. 8, 1950. Class 42.

534,945. **Refrigerating Apparatus Embodying Hot Gas Self-Defrosting Means.** Kramer Trenton Company, Trenton, N. J.
Filed Dec. 16, 1948, Serial No. 570,618. Published Sept. 12, 1950. Class 31.

534,946. **Fresh Melons and Fresh Onions.** Anthony Growers Cooperative Association, Anthony, N. Mex.
Filed Dec. 18, 1948, Serial No. 570,762. Published Aug. 1, 1950. Class 46.

534,947. **Stiffeners for Boots and Shoes—Namely, Box Toes, Counters, and Insoles.** Avalon Leather Board Company Limited, Street, England.
Filed Dec. 23, 1948, Serial No. 571,000. Published Sept. 5, 1950. Class 39.

534,948. **Cotton Piece Goods.** Wamsutta Mills, New Bedford, Mass.
Filed Dec. 30, 1948, Serial No. 571,372. Published Sept. 12, 1950. Class 42.

534,949. **Tires; Tubes; Accessories Comprising Boots, Patches, and Tube Repair Kits; Fan Belts; and Automotive Radiator Hose.** Cities Service Oil Company, Bartlesville, Okla.
Filed Dec. 31, 1948, Serial No. 571,407. Published Aug. 29, 1950. Class 35.

534,950. **Machineless Hair Waving Pads.** Bonat & Bonat, Inc., New York, N. Y.
Filed Jan 10, 1949, Serial No. 571,893. Published Aug. 15, 1950. Class 44.

534,951. **Women's Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes.** Kaylon Incorporated, New York, N. Y.
Filed Jan. 11, 1949, Serial No. 571,976. Published Sept. 19, 1950. Class 39.

534,952. **Seeds for Lawn, Grass, Forage, Cover Crop, Legume, and Clover.** C. M. Volkman & Co., San Francisco, Calif.
Filed Jan. 13, 1949, Serial No. 572,142. Published Sept. 19, 1950. Class 1.

534,953. **Cotton and Cotton and Woolen Piece Goods, Comprising Print Cloth, Etc.** Avondale Mills, Sylacauga, Ala.
Filed Jan. 13, 1949, Serial No. 572,345. Published Sept. 12, 1950. Class 42.

534,954. **Self-Locking Nuts.** Standard Pressed Steel Co., Jenkintown, Pa.
Filed Jan. 22, 1949, Serial No. 572,597. Published Sept. 19, 1950. Class 13.

534,955. **Processed Shrimp—Namely, Canned Shrimp.** Deepsouth Packing Company, New Orleans, La.
Filed Jan. 24, 1949, Serial No. 572,644. Published Aug. 1, 1950. Class 46.

534,956. **Protectors for the Upper and Lower Front Portion of Shoes.** Bumper Products, Inc., New York, N. Y.
Filed Jan. 25, 1949, Serial No. 572,721. Published Sept. 5, 1950. Class 39.

534,957. **Hair Dressing.** Associated Brands, Inc., Brooklyn, N. Y.
Filed Jan. 29, 1949, Serial No. 573,025. Published Aug. 15, 1950. Class 51.

534,958. **Exploded Cereal Food Product Consisting of Processed Corn Meal, Vegetable Oil, Cheese Flavor, Salt, and Certified Color.** Cornetts Company, Inc., Alexandria, Va.
Filed Feb. 4, 1949, Serial No. 573,307. Published Aug. 1, 1950. Class 46.

534,959. **Electric Arc Welding Metal Studs.** Morton Gregory Corporation, Detroit, Mich.
Filed Feb. 8, 1949, Serial No. 573,499. Published Sept. 19, 1950. Class 13.

534,960. **Piece Goods of Rayon, Silk, Silk and Rayon, Cotton.** Lincoln Fabrics, Co., Inc., New York, N. Y.
Filed Feb. 9, 1949, Serial No. 573,560. Published Sept. 12, 1950. Class 42.

534,961. **Non-Hydraulic Refractory Bonding Materials.** Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Feb. 16, 1949, Serial No. 573,944. Published Aug. 29, 1950. Class 12.

534,962. **Metal Windows; Metal Screens; Metal Doors; Metal Frames for Windows, Screens, and Doors; and Metal Mountings for Windows, Screens, and Doors and the Like Said Screens Being Solely for Use in Building Construction and Having a Mesh Not Finer Than 400 Openings Per Square Inch.** Joseph Sylvan, doing business as Compo-Miracle Products Co., Berkley, Mich.
Filed Feb. 16, 1949, Serial No. 573,992. Published Apr. 4, 1950. Class 12.

534,963. **Valves and Parts Thereof, Used Principally for Control of the Flow of Liquid in Water Treatment Apparatus.** Automatic Pump & Softener Corporation, Rockford, Ill.
Filed Mar. 3, 1949, Serial No. 574,813. Published Sept. 19, 1950. Class 13.

534,964. **Chain Links and Detachable Chain Links.** The Boston Metals Company, Baltimore, Md., and Chester, Pa.
Filed Mar. 11, 1949, Serial No. 575,245. Published Sept. 19, 1950. Class 13.

534,965. **Contra-Angle-Uts for Taper Shank Burs Used in Dental Hand Pieces.** Densco, Incorporated, Denver, Colo.
Filed Mar. 14, 1949, Serial No. 575,303. Published Sept. 12, 1950. Class 44.

534,966. **Cotton Rugs.** Lawrence Products Company, Inc., Attalla, Ala.
Filed Mar. 15, 1949, Serial No. 575,473. Published Sept. 12, 1950. Class 42.

534,967. **Pharmaceutical Preparation Intended for Use in the Treatment of Hypocalcemia.** Abbott Laboratories, North Chicago, Ill.
Filed Mar. 16, 1949, Serial No. 575,514. Published May 31, 1949. Class 18.

534,968. **Ladies' and Misses' Shoes Made From Sisal.** Madame Joseph Izsack Née Simone Mevs, Port-Au-Prince, Haiti.
Filed Mar. 22, 1949, Serial No. 575,862. Published Sept. 5, 1950. Class 39.

534,969. **Scalp Oil and Hair Reconditioner.** Elizabeth Villarreal, Chicago, Ill.
Filed Mar. 25, 1949, Serial No. 576,089. Published Aug. 29, 1950. Class 51.

534,970. **Vitamin-Rich Cereal Food Prepared From Wheat Embryo. Vitamins, Limited, London, England.**
Filed Mar. 28, 1949, Serial No. 576,179. Published Aug. 1, 1950. Class 46.

534,971. **Inhalers and Electric Breast Pumps (for an Electric Suction Method of Evacuation).** Silten Ltd., London and Hatfield, England.
Filed Mar. 28, 1949, Serial No. 576,233. Published Sept. 19, 1950. Class 44.

534,972. **Perfumes, Toilet Water, Colognes, Rouge, Face Powder, Mascara, Lipstick. Clergine-Parfumeur,** Societe a Responsabilite Limitee, Paris, France.
Filed Apr. 2, 1949, Serial No. 576,522. Published Sept. 12, 1950. Class 51.

534,973. **Industrial Rotary Drum Filters.** Oliver United Filters Incorporated, Oakland, Calif.
Filed Apr. 2, 1949, Serial No. 576,551. Published Sept. 19, 1950. Class 31.

534,974. Pharmaceutical Preparations for the Treatment of Tumours and Other Similar Complaints. Humblet Laboratories Limited, London, England.
Filed Apr. 8, 1949, Serial No. 576,806. Published Sept. 12, 1950. Class 18.

534,975. Pharmaceutical Preparations for the Treatment of Tumours and Other Similar Complaints. Humblet Laboratories Limited, London, England.
Filed Apr. 8, 1949, Serial No. 576,807. Published Sept. 12, 1950. Class 18.

534,976. Piece Goods, Including Printed and Upholstery Fabrics, of Wool, Cotton, Rayon, Silk, Synthetic Fibres, and Combinations Thereof; Etc. Mercantile Stores Company, Inc., Wilmington, Del.
Filed Apr. 8, 1949, Serial No. 576,817. Published Sept. 5, 1950. Class 42.

534,977. Brick, Tile, and Building Blocks, and Beams, Columns, Panels, Sills, Lintels, Gutters, and Similar Structural Units Prefabricated From Such Blocks. Fallis F. Rees, doing business as Brick Inc., Denver, Colo.
Filed Apr. 12, 1949, Serial No. 576,984. Published Sept. 26, 1950. Class 12.

534,978. Rouge, Lipstick, Foundation Lotion, Cleansing Cream, and Face Powder. Richard Hudnut, New York, N. Y.
Filed Apr. 13, 1949, Serial No. 577,055. Published Sept. 12, 1950. Class 51.

534,979. Piece Goods of Rayon. Tootal Broadhurst Lee Co. Limited, Manchester, England.
Filed Apr. 13, 1949, Serial No. 577,081. Published Sept. 12, 1950. Class 42.

534,980. Textile Piece Goods of Rayon, Wool, and Cotton, or Mixtures Thereof. Tootal Broadhurst Lee Co. Limited, Manchester, England.
Filed Apr. 13, 1949, Serial No. 577,082. Published Sept. 12, 1950. Class 42.

534,981. Antimacassars, Bed Coverlets, Bed Sheeting, Etc. Vantona Textiles Limited, Manchester, England.
Filed Apr. 15, 1949, Serial No. 577,240. Published Sept. 12, 1950. Class 42.

534,982. Cream Shampoo. Chime Cosmetics, Inc., New York, N. Y.
Filed Apr. 16, 1949, Serial No. 577,258. Published Aug. 8, 1950. Class 52.

534,983. Rayon, Cotton, Linen, Wool, Nylon, and Silk Goods in the Piece. Tanbro Fabrics Corp., New York, N. Y.
Filed Apr. 26, 1949, Serial No. 577,753. Published Sept. 5, 1950. Class 42.

534,984. Plumbing and Drainage Products—Namely, Roof Drains, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Apr. 29, 1949, Serial No. 578,001. Published Sept. 12, 1950. Class 13.

534,985. General Plumbing Fittings and Assemblies and Drainage Products—Namely, Roof Drains, Etc. J. A. Zurn Mfg. Co., Erie, Pa.
Filed Apr. 29, 1949, Serial No. 578,002. Published Sept. 19, 1950. Class 13.

534,986. Piece Goods of Cotton or Cotton and Rayon Mixtures. Dan River Mills, Incorporated, Danville, Va.
Filed Apr. 30, 1949, Serial No. 578,008. Published Sept. 12, 1950. Class 42.

534,987. Saws and Machine Knives. Simonds Saw and Steel Company, Fitchburg, Mass.
Filed Apr. 30, 1949, Serial No. 578,053. Published Sept. 12, 1950. Class 23.

534,988. Bakery Goods—Namely, Hot Dog Rolls. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and elsewhere.
Filed May 3, 1949, Serial No. 578,167. Published Aug. 1, 1950. Class 46.

534,989. Pecans, Both Shelled and Unshelled, the Former Including Candied, Salted, and Plain Nuts. Roy R. Johnson, Jr., doing business as Johnson Pecan Co., Long Beach, Miss.
Filed May 9, 1949, Serial No. 578,451. Published Aug. 22, 1950. Class 46.

534,990. Textile Fabrics in the Piece Composed of Rayon, Silk, Cotton, Wool, and Mixtures Thereof. Decorative Fabrics, Inc., New York, N. Y.
Filed May 18, 1949, Serial No. 579,019. Published Sept. 12, 1950. Class 42.

534,991. Wheat Flour. The Consolidated Flour Mills Company, Wichita, Kans.
Filed May 20, 1949, Serial No. 579,172. Published Aug. 1, 1950. Class 46.

534,992. Jewelry for Personal Wear, Not Including Watches—Namely, Ornamental Pins, Jewelry Clips, Hair Ornaments, Badges, Etc. Coro, Inc., New York, N. Y.
Filed May 20, 1949, Serial No. 579,175. Published Aug. 22, 1950. Class 28.

534,993. Sewing Machines and Parts Thereof. Clean-Rite Vacuum Stores of Washington, Inc., Washington, D. C.
Filed May 31, 1949, Serial No. 579,735. Published Sept. 12, 1950. Class 23.

534,994. Powdered Vegetable Stabilizer for Ice Cream and Allied Products. Eskimo Pie Corporation, Bloomfield, N. J.
Filed June 2, 1949, Serial No. 579,908. Published Aug. 1, 1950. Class 46.

534,995. Pile Fabrics of Cotton, Silk, and Synthetic Fibres. American Velour Mills, Inc., Bound Brook, N. J.
Filed June 7, 1949, Serial No. 580,041. Published Sept. 12, 1950. Class 42.

534,996. Dishcloths. Granite Looms, Inc., Fall River, Mass.
Filed June 7, 1949, Serial No. 580,059. Published Sept. 12, 1950. Class 42.

534,997. Fresh Grapes. H. A. Guidera & Son, Shafter, Calif.
Filed June 14, 1949, Serial No. 580,406. Published Aug. 1, 1950. Class 46.

534,998. Lime in Powdered Form for Building and Construction Purposes. The Ohio Hydrate & Supply Company, Woodville, Ohio.
Filed May 9, 1949, Serial No. 580,558. Published Aug. 15, 1950. Class 12.

534,999. Textile Carpets and Rugs. C. H. Masland & Sons, Carlisle, Pa.
Filed June 16, 1949, Serial No. 580,610. Published Sept. 5, 1950. Class 42.

535,000. Textile Rugs and Carpeting. Sears, Roebuck and Co., Chicago, Ill.
Filed June 24, 1949, Serial No. 581,065. Published Sept. 12, 1950. Class 42.

535,001. Rayon, Cotton, Linen, Wool, Nylon, and Silk Textile Fabrics in the Piece. Tanbro Fabrics Corp., New York, N. Y.
Filed May 27, 1949, Serial No. 581,055. Published Sept. 12, 1950. Class 42.

535,002. Glues and Gelatins in Powder Form Intended for Use as an Adhesive. Consolidated Chemical Industries Inc., San Francisco, Calif.
Filed June 27, 1949, Serial No. 581,122. Published Sept. 19, 1950. Class 5.

535,003. Macaroni, Spaghetti, and Egg Noodles, and Dehydrated Soup Mixes. Minnesota Macaroni Company, St. Paul, Minn.
Filed June 27, 1949, Serial No. 581,140. Published Aug. 1, 1950. Class 46.

535,004. Floor Wax. Scientific Supply Co., Inc., Denver, Colo.
Filed June 30, 1949, Serial No. 581,360. Published Sept. 19, 1950. Class 4.

535,005. Corduroy Fabrics. Turner Jones Company, Inc., New York, N. Y.
Filed July 13, 1949, Serial No. 581,917. Published Sept. 12, 1950. Class 42.

535,006. Synthetic Sponges. Ivano, Inc., Chicago, Ill.
Filed July 14, 1949, Serial No. 581,960. Published Aug. 8, 1950. Class 1.

535,007. Abrasive Scrubbing Mitts. George T. McAnany, Vista, Calif.
Filed July 18, 1949, Serial No. 582,138. Published Sept. 12, 1950. Class 4.

535,008. Liquid Wax for Polishing Floors. V. Jack Vincent, doing business as Pur-O-Zone Chemical Company, Lawrence, Kans.
Filed July 21, 1949, Serial No. 582,331. Published Sept. 19, 1950. Class 4.

535,009. Boots and Shoes Made Principally of Leather but Having Parts Thereof Formed of Fabric and Rubber. C. H. Hyer & Sons, Olathe, Kans.
Filed July 25, 1949, Serial No. 582,481. Published Aug. 22, 1950. Class 39.

535,010. Poultry Feeds, Composed of Cereal Grains and Other Ingredients Suitable for Poultry. Staley Milling Company, Kansas City, Mo.
Filed July 25, 1949, Serial No. 582,501. Published Aug. 1, 1950. Class 46.

535,011. Powder and Paste Dentifrice for Natural Teeth. Amm-i-dent, Inc., Jersey City, N. J.
Filed July 26, 1949, Serial No. 582,513. Published Dec. 20, 1949. Class 51.

535,012. Portable Reflecting Highway Warning Signs. Stoddard Products Company, Incorporated, Woodbridge and New Haven, Conn.
Filed July 28, 1949, Serial No. 582,657. Published July 25, 1950. Class 50.

535,013. Unfinished Leather Soles for Shoes. The Viscol Company, Stamford, Conn.
Filed Aug. 10, 1949, Serial No. 583,303. Published Sept. 26, 1950. Class 39.

535,014. Sterilized Cow's Milk Cream Sold in Sealed Containers for Use as Coffee Cream, Whipping Cream, and for General Culinary and Dietary Purposes. M & R Dietetic Laboratories, Inc., Columbus, Ohio.
Filed Aug. 11, 1949, Serial No. 583,351. Published Aug. 1, 1950. Class 46.

535,015. Soap. Sophia Swartz, New York, N. Y.
Filed Aug. 12, 1949, Serial No. 583,415. Published Aug. 29, 1950. Class 52.

535,016. Oil Base Drilling Fluid Concentrate. Ken Corporation, Temple City, Calif.
Filed Aug. 19, 1949, Serial No. 583,697. Published Sept. 19, 1950. Class 1.

535,017. Shoes Made of Leather, Rubber, or Fabric or Combinations Thereof, and Hosiery. Delman, Inc., New York, N. Y.
Filed Aug. 27, 1949, Serial No. 584,111. Published Aug. 22, 1950. Class 39.

535,018. Shoes Made of Leather, Rubber, or Fabric, or Combinations Thereof, and on Hosiery. Delman, Inc., New York, N. Y.
Filed Aug. 27, 1949, Serial No. 584,112. Published Aug. 22, 1950. Class 39.

535,019. Shoe Polish. Hollywood Shoe Polish, Inc., Richmond Hill, N. Y.
Filed Aug. 27, 1949, Serial No. 584,121. Published Sept. 19, 1950. Class 4.

535,020. Surgical Pads and Truss Pads. Surgical Appliance Industries Inc., Cincinnati, Ohio.
Filed Aug. 30, 1949, Serial No. 584,255. Published Sept. 19, 1950. Class 44.

535,021. Abrasive Burnishing and Polishing Compounds. Joseph Lupo, doing business under the name and style of Lupo Research Laboratories, Tuckahoe, N. Y.
Filed Sept. 8, 1949, Serial No. 584,583. Published Sept. 19, 1950. Class 4.

535,022. X-Ray, Fluoroscopic, Intensifying and Photofluorographic Screens Used for Therapeutic Purposes. United States Radium Corporation, New York, N. Y.
Filed Sept. 14, 1949, Serial No. 584,846. Published Sept. 19, 1950. Class 44.

535,023. Canned Peaches. Hunt Foods, Inc., Los Angeles, Calif.
Filed Sept. 24, 1949, Serial No. 585,283. Published Aug. 1, 1950. Class 46.

535,024. Men's Union Suits Made of Textile Fabric. The May Department Stores Company, New York, N. Y., and St. Louis, Mo.
Filed Sept. 27, 1949, Serial No. 585,383. Published Sept. 5, 1950. Class 39.

535,025. Fish Scaling Tool. S-B Manufacturing Company, Milwaukee, Wis.
Filed Aug. 8, 1949, Serial No. 585,480. Published Aug. 29, 1950. Class 23.

535,026. Machine Belting and Conveyor Belting. British Belting & Asbestos Limited, Cleckheaton, England.
Filed Oct. 3, 1949, Serial No. 585,698. Published Sept. 5, 1950. Class 35.

535,027. Prophylactic Membranous Articles for the Prevention of Contagious Diseases. Youngs Rubber Corporation, New York, N. Y.
Filed Oct. 5, 1949, Serial No. 585,817. Published Aug. 15, 1950. Class 44.

535,028. Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials. The Selby Shoe Company, Portsmouth, Ohio.
Filed Oct. 8, 1949, Serial No. 586,226. Published Sept. 26, 1950. Class 39.

535,029. Men's, Women's, and Children's Shoes, Made of Leather, Kid, Fabric, and Kindred Materials. Curtis-Stephens-Embry Co., Inc., Reading, Pa.
Filed Oct. 14, 1949, Serial No. 586,267. Published Sept. 5, 1950. Class 39.

535,030. Field Seed. Weaver Brothers, Lubbock, Tex.
Filed Oct. 14, 1949, Serial No. 586,333. Published Sept. 19, 1950. Class 1.

535,031. Children's Sleeping Garments Made of Knitted Cotton Fabric. Glendale Knitting Corporation, Perry, N. Y.
Filed Oct. 19, 1949, Serial No. 586,532. Published Sept. 12, 1950. Class 39.

535,032. Flexible Glue. Swift & Company, Chicago, Ill.
Filed Oct. 21, 1949, Serial No. 586,664. Published Sept. 12, 1950. Class 5.

535,033. Glue. Swift & Company, Chicago, Ill.
Filed Oct. 21, 1949, Serial No. 586,665. Published Sept. 12, 1950. Class 5.

535,034. Device for Holding Gloves To Be Used on Purses. Gluv-Gard Manufacturing Company, New York, N. Y., assignor to Gluv-Gard Mfg. Co., Inc.
Filed Oct. 22, 1949, Serial No. 586,692. Published Sept. 5, 1950. Class 40.

535,035. Fingernail Files, Tweezers, and Cuticle Scissors. Butler Brothers, Chicago, Ill.
Filed Oct. 29, 1949, Serial No. 587,012. Published Sept. 12, 1950. Class 44.

535,036. Diaper Coverings. Donovan Enterprises, Incorporated, Saugatuck, Conn.
Filed Oct. 29, 1949, Serial No. 587,016. Published Sept. 26, 1950. Class 39.

535,037. Glass Vials. Owens-Illinois Glass Company, Toledo, Ohio.
Filed Oct. 29, 1949, Serial No. 587,046. Published Aug. 29, 1950. Class 33.

535,038. Ladies' and Misses' Dresses, Coats, Suits, Blouses, and Skirts. David Crystal, Inc., New York, N. Y.
Filed Nov. 2, 1949, Serial No. 587,181. Published Sept. 26, 1950. Class 39.

535,039. Wheat Flour, for Human Consumption. International Milling Company, Minneapolis, Minn.
Filed Sept. 9, 1949, Serial No. 587,580. Published Aug. 1, 1950. Class 46.

535,040. Floor, Wall, and Ceiling Tiles for Interior and Exterior Purposes. The Mosaic Tile Company, Zanesville, Ohio.
Filed Nov. 12, 1949, Serial No. 587,688. Published Aug. 29, 1950. Class 12.

535,041. Floor, Wall, and Ceiling Tiles for Interior and Exterior Purposes. The Mosaic Tile Company, Zanesville, Ohio.
Filed Nov. 12, 1949, Serial No. 587,689. Published Aug. 29, 1950. Class 12.

535,042. Dresses, Suits, and Coats for Women. Callot Soeurs of Paris, Inc., New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,791. Published Sept. 5, 1950. Class 39.

535,043. Wallets. Philip Florin, Inc., New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,799. Published Aug. 15, 1950. Class 3.

535,044. Dresses and Ladies' Suits. A. Goodman & Co., Inc., New York, N. Y.
Filed Nov. 16, 1949, Serial No. 587,870. Published Sept. 26, 1950. Class 39.

535,045. Ladies' Dresses and Sportswear—Namely, Play Suits, Slack Suits, Skirts, and Outer Shorts. Liberty Frock Company, Inc., Kansas City, Mo.
Filed Nov. 16, 1949, Serial No. 587,877. Published Sept. 26, 1950. Class 39.

535,046. Industrial Electric Lighting Units, Adjustable Electric Lamp Brackets, Lamp-Socket and Reflector Units, and Portable Electric Lamp Stands. William H. Woodward, doing business as Woodward Machine Company, Detroit, Mich.
Filed Nov. 17, 1949, Serial No. 587,985. Published Sept. 5, 1950. Class 21.

535,047. Toothpicks. The Diamond Match Company, New York, N. Y.
Filed Nov. 25, 1949, Serial No. 588,287. Published Aug. 29, 1950. Class 44.

535,048. Juniors' and Misses' Coats and Suits. Louis Shlansky Corporation, also known as Louis Shlansky Corp., New York, N. Y.
Filed Nov. 25, 1949, Serial No. 588,325. Published Sept. 5, 1950. Class 39.

535,049. Portable Ice Boxes. Spiegel, Inc., Chicago, Ill.
Filed Nov. 26, 1949, Serial No. 588,400. Published Sept. 12, 1950. Class 31.

535,050. Fuel Injection Pumps for Internal Combustion Engines. Hartford Machine Screw Co., Wilson, Conn.
Filed Nov. 29, 1949, Serial No. 588,490. Published Aug. 22, 1950. Class 23.

535,051. Oil Filters for Internal Combustion Engines and for Cartridges for Oil Filters for Internal Combustion Engines. De Luxe Products Corporation, La Porte, Ind.
Filed Dec. 1, 1949, Serial No. 588,635. Published Sept. 12, 1950. Class 31.

535,052. Treated Textile Fabrics for Use as Liners Between Layers of Uncured Rubber Stocks. J. J. White, doing business as J. J. White Products Company, Cleveland, Ohio.
Filed Dec. 10, 1949, Serial No. 589,181. Published Aug. 15, 1950. Class 42.

535,053. Portable Electric Refrigerators. Frigid Midget Corporation, New York, N. Y.
Filed Dec. 13, 1949, Serial No. 589,255. Published Sept. 19, 1950. Class 31.

535,054. Billfolds. Buxton, Incorporated, Springfield, Mass.
Filed Dec. 17, 1949, Serial No. 589,499. Published Aug. 29, 1950. Class 3.

535,055. Bedroom Slippers. Korth-Jefferson, Inc., Jefferson, Wis.
Filed Dec. 21, 1949, Serial No. 589,728. Published Sept. 5, 1950. Class 39.

535,056. Boots and Shoes Made of Leather, Fabric, or Combinations Thereof. Health Spot Shoe Company, Oconomowoc, Wis.
Filed Dec. 31, 1949, Serial No. 590,221. Published Sept. 5, 1950. Class 39.

535,057. Intake Air Cleaners and Combination Cleaners and Silencers for Internal Combustion Engines, Compressors, and the Like. Burgess-Manning Company, Libertyville, Ill.
Filed Jan. 10, 1950, Serial No. 590,581. Published Sept. 19, 1950. Class 31.

535,058. Apparatus for Purifying, Filtering, and Softening Water—Namely, Water Filters, Clarifying Filters, Zeolite Softeners, and Parts Thereof. The Permutit Company, New York, N. Y.
Filed Dec. 24, 1949, Serial No. 590,637. Published Sept. 19, 1950. Class 31.

535,059. Apparatus for Purifying, Filtering, and Softening Water—Namely, Water Filters, Clarifying Filters, Zeolite Softeners, and Parts Thereof. The Permutit Company, New York, N. Y.
Filed Dec. 24, 1949, Serial No. 590,638. Published Sept. 19, 1950. Class 31.

535,060. Athletic Shoes Made of Canvas, Leather, Rubber, or Combinations Thereof. Bristol Manufacturing Corporation, Bristol, R. I.
Filed Jan. 11, 1950, Serial No. 590,642. Published Sept. 26, 1950. Class 39.

535,061. Ureteral and Urethral Catheters, Endotracheal Catheters, Etc. United States Catheter & Instrument Corp, Glens Falls, N. Y.
Filed Jan. 12, 1950, Serial No. 590,768. Published Sept. 19, 1950. Class 44.

535,062. Ladies' Outer Sportwear—Namely, Knitted Blouses. Rogers Sportwear Co., Inc., Brooklyn, N. Y.
Filed Jan. 26, 1950, Serial No. 591,515. Published Sept. 26, 1950. Class 39.

535,063. Misses', Girls', Boys', Men's, Women's, and Children's Shoes of Leather, Fabric, or Part Leather and Part Fabric. A. S. Kreider Shoe Manufacturing Company, Elizabethtown, Pa.
Filed Feb. 1, 1950, Serial No. 591,783. Published Sept. 5, 1950. Class 39.

535,064. Fabrics in the Piece Containing Wool, Cotton, Nylon, and Rayon and Mixtures Thereof, and for Cotton Sheets and Pillowcases. Deering, Milliken & Company, Inc., New York, N. Y.
Filed Dec. 7, 1949, Serial No. 591,898. Published Aug. 29, 1950. Class 42.

535,065. Piece Goods of Synthetic Fibers Alone and in Admixture With Cotton, Wool or Silk. Celanese Corporation of America, New York, N. Y.
Filed Feb. 7, 1950, Serial No. 592,073. Published Sept. 12, 1950. Class 42.

535,066. Men's Top Coats and Overcoats. Levy Bros. & Adler Rochester, Inc., Rochester, N. Y.
Filed Feb. 17, 1950, Serial No. 592,641. Published Sept. 5, 1950. Class 39.

535,067. Men's and Young Men's Suits. Timely Clothes, Inc., Rochester, N. Y.
Filed Feb. 18, 1950, Serial No. 592,727. Published Sept. 5, 1950. Class 39.

535,068. Shoes. Rice-O'Neill Shoe Company, St. Louis, Mo.
Filed Feb. 27, 1950, Serial No. 593,141. Published Sept. 5, 1950. Class 39.

535,069. Boots and Shoes. Arthur A. Williams, doing business under the name and style of Safety First Shoe Company, Holliston, Mass.
Filed Feb. 28, 1950, Serial No. 593,198. Published Sept. 5, 1950. Class 39.

535,070. Worsted Piece Goods. Botany Mills, Inc., Passaic, N. J.
Filed Mar. 2, 1950, Serial No. 593,256. Published Sept. 12, 1950. Class 42.

535,071. Textile, Woven, Woolen Rugs, and Carpets. Mohawk Carpet Mills, Inc., Amsterdam, N. Y.
Filed Mar. 4, 1950, Serial No. 593,431. Published Sept. 12, 1950. Class 42.

535,072. Women's and Misses' Shoes of Leather, Fabric, and Combinations Thereof. Camille Designs, Inc., St. Louis, Mo.
Filed Mar. 6, 1950, Serial No. 593,467. Published Sept. 26, 1950. Class 39.

535,073. Woven Elastic Fabrics in the Piece, of Acetate Fibres Combined With Elastic Threads. Rayflex Fabrics, Inc., New York, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.
Filed Mar. 6, 1950, Serial No. 593,500. Published Sept. 12, 1950. Class 42.

535,074. Woven Elastic Fabrics in the Piece of Synthetic and Protein Fibres Combined With Elastic Threads. Rayflex Fabrics, Inc., New York, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.
Filed Mar. 6, 1950, Serial No. 593,501. Published Sept. 12, 1950. Class 42.

535,075. Misses' Suits and Coats. Sam Silberstein Corp., New York, N. Y.
Filed Mar. 8, 1950, Serial No. 593,618. Published Sept. 19, 1950. Class 39.

535,076. Misses' Suits and Coats. Sam Silberstein Corp., New York, N. Y.
Filed Mar. 8, 1950, Serial No. 593,619. Published Sept. 26, 1950. Class 39.

535,077. Woolen and Worsted Piece Goods. Anglo Fabrics Company, Inc., New York, N. Y.
Filed Mar. 10, 1950, Serial No. 593,704. Published Sept. 12, 1950. Class 42.

535,078. Men's and Women's Shoes, Sport Shoes, and Boots. The Florsheim Shoe Company, Chicago, Ill.
Filed Mar. 20, 1950, Serial No. 594,266. Published Sept. 26, 1950. Class 39.

535,079. Shoes, Made of Leather, Fabric, Rubber, and/or Any Combinations Thereof. Cannon Shoe Company, Baltimore, Md.
Filed Mar. 22, 1950, Serial No. 594,357. Published Sept. 19, 1950. Class 39.

535,080. Shoes. Dixon-Bartlett Company, Baltimore, Md.
Filed Mar. 30, 1950, Serial No. 594,896. Published Sept. 26, 1950. Class 39.

Service Marks

535,081. Services Rendered to Automobiles, Trucks and Other Automotive Vehicles—Namely, Lubrication, Washing, Polishing, Repairing, Motor Tuning, Battery Charging, Tire Repairing and Changing, Air Cleaner Maintenance and Repair, Spark Plug Cleaning and Regapping. The Pure Oil Company, Chicago, Ill.
Filed July 5, 1947, Serial No. 527,991. Published Aug. 29, 1950. Class 103.

535,082. Services to the Dry Cleaning Industry Consisting of Analyses, Inspections, and Recommendations Relative to the Effectiveness of the Methods, Etc. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif.
Filed Nov. 29, 1947, Serial No. 542,792. Published Sept. 12, 1950. Class 100.

535,083. Radio Program Broadcasting Services. Westinghouse Radio Stations, Inc., Indianapolis, Ind., and Philadelphia, Pa.
Filed May 25, 1948, Serial No. 557,809. Published Sept. 19, 1950. Class 104.

535,084. Rental of Washing Machines in Self-Service Laundries and Periodical Inspection and Supervision of the Operation Thereof. Telecoin Corporation, New York, N. Y.
Filed May 29, 1948, Serial No. 558,179. Published Sept. 12, 1950. Class 103.

535,085. Television News Program Broadcasting. WPIX, Inc., New York, N. Y.
Filed Aug. 12, 1948, Serial No. 563,299. Published Sept. 19, 1950. Class 104.

535,086. Construction Engineering. F. H. McGraw and Company, Hartford, Conn.
Filed Sept. 23, 1948, Serial No. 569,924. Published Sept. 12, 1950. Class 103.

535,087. Appraisals of Law Libraries for Tax and Accounting Purposes; Binding of Law Books; Printing of Legal Briefs and Notes of Testimony; and Cataloging, Cleaning, Repairing and Rearranging Books in Public and Private Law Libraries. Joseph M. Mitchell, Philadelphia, Pa.
Filed Dec. 16, 1948, Serial No. 570,625. Published Sept. 26, 1950. Class 101.

535,088. Management Engineering Service—Namely, the Making of Studies of Plant Operations With Particular Reference to Cost and Efficiency of Production. Southern Management Engineers, Atlanta, Ga.
Filed Apr. 4, 1949, Serial No. 576,596. Published Sept. 12, 1950. Class 101.

535,089. Fluid Honing Metal Dies, Tools and Other Products for the Purpose of Hardening, Increasing the Durability, and Making a Smoother and Better Lubricating Surface. James R. Brakeman, East Lansing, Mich.
Filed May 13, 1949, Serial No. 578,762. Published Sept. 12, 1950. Class 106.

535,090. Public Utility Services—Namely, the Furnishing of Electric Power. American Gas and Electric Company, New York, N. Y.
Filed Sept. 23, 1949, Serial No. 587,148. Published Aug. 29, 1950. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

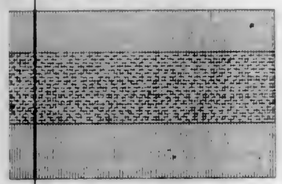
These registrations are not subject to opposition.

535,091. (Class 46. Foods and Ingredients of Foods.) J. R. Simplot Company, Caldwell, Idaho. Original filed, act of 1905, Apr. 1, 1947; amended to application under act of 1946, Principal Register, Nov. 19, 1947; amended to Supplemental Register, Sept. 29, 1949, Serial No. 519,989.

Simplot BRAND
FRENCH FRIED
IDAHO
Potato Hearts

For Food Products and, More Particularly, for Frozen Fried Potatoes.
Claims use since Oct. 21, 1946.

535,092. (Class 18. Medicines and Pharmaceutical Preparations.) Polk Miller Products Corporation, Richmond, Va. Original filed, act of 1905, June 17, 1947; amended to application under act of 1946, Principal Register, Oct. 28, 1947; amended to Supplemental Register, July 14, 1949, Serial No. 524,344.



The drawing is lined for the colors red and yellow. Applicant claims ownership of Registrations Nos. 284,640, 331,624, 345,687, and 331,357.
For Tick Killer in Powder Form and Skin Balm for Use on Dogs.
Claims use since Apr. 29, 1947.

535,093. (Class 46. Foods and Ingredients of Foods.) James B. Ward, doing business under the firm and style name of Riverside Mills Co., Nashville, Tenn. Original filed, act of 1946, Principal Register, Sept. 2, 1947; amended to application, Supplemental Register, Feb. 4, 1949, Serial No. 533,087.

The drawing is lined to indicate red and blue.
For Poultry Feeds—Namely, Starter Mash, Laying Mash, Broiler Mash, Growing Mash, and Scratch Feed; and Stock Feeds—Namely, Calf Meal Containing Principally Grain Products, Hog Feed Containing Principally Tankage and Grain Products, Horse Feed Containing Principally Grain Products, and Dairy Feed.
Claims use since May 1947.

535,094. (Class 46. Foods and Ingredients of Foods.) Acme Breweries, doing business under the name of Peerless Yeast Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Sept. 12, 1947; amended to application, Supplemental Register, Feb. 25, 1949, Serial No. 534,222.

PEERLESS

Applicant claims ownership of Registrations Nos. 137,145, 150,767, and 186,235.
For Yeast; Yeast Food Used as an Additive to Dough for the Purpose of Stimulating the Yeast; and Malt Extract for Use in Bread Making.
Claims use since July 1, 1919.

535,095. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Better-Bilt Manufacturing Company, Minneapolis, Minn. Original filed, act of 1946, Principal Register, Dec. 3, 1947; amended to application, Supplemental Register, Aug. 27, 1949, Serial No. 543,084.

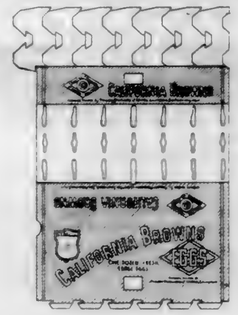
CONVEY-ALL

The word "Convey" is disclaimed.
For Power Operated Portable Elevators.
Claims use since Dec. 15, 1946.

535,096. (Class 46. Foods and Ingredients of Foods.) Bob Adam, doing business as Yeast-Ayd Feeds formerly doing business as Yeast Feed Distributors, Sterling, Kans. Original filed, act of 1946, Principal Register, Jan. 26, 1948; amended to application, Supplemental Register, June 15, 1950, Serial No. 547,953.

The word "Yeast" and the expression "For Cattle, Hogs, Sheep, Poultry, Turkeys, Dogs, Horses and Mules" are disclaimed.
For Live Cell Yeast Culture for Use in Livestock and Poultry Feeds.
Claims use since Nov. 26, 1947.

535,097. (Class 46. Foods and Ingredients of Foods.) Poultry Producers of Central California, San Francisco, Calif. Filed Aug. 8, 1949, Serial No. 548,606.



The drawing is lined for brown.
FOR FRESH EGGS.
Claims use since Jan. 2, 1946.

535,098. (Class 46. Foods and Ingredients of Foods.) Cashan & Co., Camden, N. J. Original filed, act of 1946, Principal Register, Feb. 14, 1948; amended to application, Supplemental Register, Aug. 4, 1949, Serial No. 549,710.

BUCKS COUNTY

For Canned Mushrooms, Bottled Pickles, Olives, Cherries, Vinegar, Fruit Jams, Jellies, and Apple Butter.
Claims use since Feb. 10, 1948.

535,099. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Hartmann Manufacturing Company, Racine, Wis. Original filed, act of 1946, Principal Register, Mar. 18, 1948; amended to application, Supplemental Register, Sept. 15, 1950, Serial No. 552,242.

THE BUTTERER

For Spreaders for the Spreading of Butter on Various Food Products Such as Hot Buns, Boiled Potatoes, Pancakes, and Especially Corn on Cob.
Claims use since Nov. 29, 1947.

535,100. (Class 14. Metals and Metal Castings and Forgings.) The Baldwin Locomotive Works, Eddystone, Pa. Original filed, act of 1946, Principal Register, Apr. 8, 1948; amended to application, Supplemental Register, June 1, 1949, Serial No. 554,080.

SUPERSTRENGTH

For Nonferrous Metals and Nonferrous Metal Castings.
Claims use since 1921.

535,101. (Class 46. Foods and Ingredients of Foods.) Albert J. Poole, doing business as Pik-Nik Food Products Co., San Jose, Calif. Original filed, act of 1946, Principal Register, Apr. 26, 1948; amended to application, Supplemental Register, Jan. 3, 1950, Serial No. 555,627.

Applicant claims ownership of Registration No. 409,398.
For Shoe String Potatoes.
Claims use since June 24, 1942.

535,102. (Class 46. Foods and Ingredients of Foods.) Fresh Pak Candy Company, Rock Island, Ill. Original filed, act of 1946, Principal Register, May 14, 1948; amended to application, Supplemental Register, Aug. 7, 1950, Serial No. 557,034.

FREDA JO'S
FreshPak

For Candy.
Claims use since September 1947.

535,103. (Class 24. Laundry Appliances and Machines.) S. F. Appliances, Limited, Ridgefield, N. J. Original filed, act of 1946, Principal Register, May 15, 1948; amended to application, Supplemental Register, Feb. 23, 1950, Serial No. 557,160.

For Gasoline and Kerosene Burning Sad Irons.
Claims use since Feb. 3, 1948.

535,104. (Class 46. Foods and Ingredients of Foods.) Roy B. Chase, doing business as R. B. Chase & Company, Drexel Hill, Pa. Original filed, act of 1946, Principal Register, May 18, 1948; amended to application, Supplemental Register, Aug. 4, 1950, Serial No. 557,260.

For Salt Water Taffy.
Claims use since Jan. 15, 1948.

535,105. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Bostrom Manufacturing Company, Milwaukee, Wis. Original filed, act of 1946, Principal Register, May 29, 1948; amended to application, Supplemental Register, Aug. 23, 1949, Serial No. 558,101.

BOSTROM

For Seat Mountings, Seat Suspensions and Seats and Seat Cushions for Use on Tractors and Earth Moving Equipment.
Claims use since Dec. 15, 1945.

535,106. (Class 16. Paints and Painters' Materials.) All-Protect Products Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 14, 1948; amended to application, Supplemental Register, Oct. 11, 1950, Serial No. 563,386.

ALL-PROTECT

For Liquid Varnish Preparation for Protecting Metallic and Other Surfaces From Corrosion and Deterioration.
Claims use since June 23, 1948.

535,107. (Class 31. Filters and Refrigerators.) William Craig Carroll, Jr., doing business under the name Craig Carroll Company, Portland, Oreg. Original filed, act of 1946, Principal Register, Sept. 21, 1948; amended to application, Supplemental Register, June 15, 1950, Serial No. 565,540.

GUARD Z OIL

For Filters for Fuel and Lubrication Filtration in the Automotive, Marine, and Industrial Fields, and Replacement Filter Elements.
Claims use since July 29, 1948.

535,108. (Class 46. Foods and Ingredients of Foods.) Blue Hill Candy Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Nov. 26, 1948; amended to application, Supplemental Register, April 26, 1950, Serial No. 569,426.

Applicant claims ownership of Registration No. 207,913.
For Candies.
Claims use since May 1, 1926.

535,109. (Class 46. Foods and Ingredients of Foods.) Tyler Products, Inc., North Hollywood, Calif. Original filed, act of 1946, Principal Register, Feb. 14, 1949; amended to application, Supplemental Register, July 22, 1950, Serial No. 573,856.

For Sandwiches.
Claims use since Dec. 1, 1948.

535,110. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) A. D. Cook, Incorporated, Lawrenceburg, Ind. Original filed, act of 1946, Principal Register, Feb. 17, 1949; amended to application, Supplemental Register, June 17, 1950, Serial No. 574,019.

For Packing for Pumps.
Claims use since Aug. 6, 1948.

535,111. (Class 46. Foods and Ingredients of Foods.) National Starch Products Inc., New York, N. Y. Filed Feb. 25, 1949, Serial No. 574,526.

CLEARJEL

For Processed Dry Starch Refined From Waxy Maize for Use in the Preparation of Food Products Such as Pies, Puddings, Salad Dressings, and the Like.
Claims use since May 27, 1947.

535,112. (Class 46. Foods and Ingredients of Foods.) William Battaglia, San Jose, Calif. Original filed, act of 1946, Principal Register, May 16, 1949; amended to application, Supplemental Register, Aug. 3, 1950, Serial No. 578,919.

BATT

For Canned Prunes.
Claims use since Dec. 20, 1948.

535,113. (Class 46. Foods and Ingredients of Foods.) Anthony R. Pinelli, Chicago, Ill. Original filed, act of 1946, Principal Register, May 23, 1949; amended to application, Supplemental Register, July 19, 1950, Serial No. 579,353.

MONTE CASSINO

For Olive Oil.
Claims use since Mar. 22, 1949.

535,114. (Class 22. Games, Toys, and Sporting Goods.) C. D. Kirk, Orlando, Fla. Original filed, act of 1946, Principal Register, July 1, 1949; amended to application, Supplemental Register, Sept. 30, 1950, Serial No. 581,423.

KIRK'S Tumblebug

For Artificial Fish Bait.
Claims use since Nov. 15, 1947.

535,115. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Spooner Dryer & Engineering Company Limited, Ilkley, England. Original filed, act of 1946, Principal Register, June 30, 1949; amended to application, Supplemental Register, May 22, 1950, Serial No. 581,460.

SPOONER

Applicant claims ownership of British Registration No. 640,652, dated Oct. 5, 1945.
For Tentering Machines, Carbonising Machines, Dyeing Machines, Washing Machines, Scouring Machines, Drying Machines, Neutralising Machines, Finishing Machines, Baking Machines, Sizing Machines, and Hydro-Extracting Machines, All for Use in the Textile Industry; Moisture Conditioning Machines for Use in Textile and Paper Manufacture, Paper Board Drying Machines, Coated Paper Drying Machines, Felt Drying Machines, Dust Extracting Machines, and Extruding Machines for Use in the Manufacture of Macaroni and the Like Alimentary Foodstuffs.

535,116. (Class 6. Chemicals and Chemical Compositions.) Thompson Horticultural Chemicals Corporation, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 12, 1949; amended to application, Supplemental Register, Nov. 9, 1950, Serial No. 581,844.

BRAMBLCIDE

For Horticultural Compound for Use in Killing Weeds and Brush.
Claims use since Dec. 8, 1948.

535,117. (Class 19. Vehicles.) Bryant Manufacturing Company, Inc., Providence, R. I. Original filed, act of 1946, Principal Register, July 18, 1949; amended to application, Supplemental Register, Oct. 17, 1950, Serial No. 582,123.

Fit-Rite

For Automobile Seat Covers.
Claims use since Mar. 15, 1945.

535,118. (Class 12. Construction Materials.) Battenfeld Grease & Oil Corp., Kansas City, Mo. Original filed, act of 1946, Principal Register, July 25, 1949; amended to application, Supplemental Register, Aug. 11, 1950, Serial No. 582,466.

TUBE-A-KALK

For Caulking Compounds.
Claims use since May 27, 1949.

535,119. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) American Lace Leather Co., Inc., Richmond, Va. Filed Dec. 5, 1949, Serial No. 588,782.

HOLD FAST

For Lacings for Leather Belts.
Claims use since Jan. 1, 1925.

535,120. (Class 9. Explosives, Firearms, Equipments, and Projectiles.) Stoeger Arms Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 16, 1949; amended to application, Supplemental Register, June 1, 1950, Serial No. 589,478.

Mannlicher Schœnauer

For Rifles.
Claims use since Feb. 1, 1947.

535,121. (Class 24. Laundry Appliances and Machines.) American Machine and Metals, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Oct. 4, 1950, Serial No. 590,344.

Electrodene

For Drycleaning Machinery.
Claims use since June 20, 1949.

535,122. (Class 24. Laundry Appliances and Machines.) Kamkap, Inc., New York, N. Y. Filed June 17, 1950, Serial No. 599,329.

STRAIGHTLINE

For Outdoor and Indoor Clothes Dryers.
Claims use since Jan. 22, 1948.

TRADE-MARK REGISTRATIONS RENEWED

35,634. Stomalix. Registered Dec. 25, 1900. Ramon Saiz y Carlos. Re-renewed Dec. 25, 1950, to Hijos De Saiz De Carlos, Madrid, Spain, a firm of Spain. Remedies for Diseases of the Stomach and Intestines. Class 18.

76,518. Reliance. Registered Jan. 25, 1910. Oneida Community Limited. Re-renewed Jan. 25, 1950, to Oneida Ltd., Oneida, N. Y., a corporation of New York. Silver-Plated Flat Ware, Hollow Ware, and Tableware. Class 28.

80,184. Vanity. Registered Nov. 15, 1910. Richard Hudnut, New York, N. Y., a corporation of New York. Re-renewed Nov. 15, 1950. Perfumes. Class 51.

80,202. Representation of Oval Design. Registered Nov. 15, 1910. J. H. Williams & Co., Brooklyn, N. Y. Re-renewed Nov. 15, 1950, to J. H. Williams & Co., Buffalo, N. Y., a corporation of New York. Metal Forgings. Class 14.

80,917. Paymaster. Registered Feb. 14, 1911. Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Re-renewed Feb. 14, 1951, to Higginbotham Bailey Company, Dallas, Tex., a corporation of Texas. Men's and Boys' Overalls, Jumpers, Men's and Boys' Workshirts, and Men's and Boys' Work Coats and Trousers. Class 39.

250,300. "Oswald" Etc. Registered Dec. 4, 1928. Universal Pictures Corporation. Renewed Dec. 4, 1948, to Universal Pictures Company, Inc., New York, N. Y., a corporation of Delaware. Series of Animated Motion-Picture Cartoons. Class 26.

274,724. Phoenix. Registered Sept. 2, 1930. Phoenix Manufacturing Company, Joliet, Ill. Renewed Sept. 2, 1950, to Phoenix Manufacturing Company, Joliet, Ill., and Catasauqua, Pa., a corporation of Illinois. Rubber Goods—Namely, Radiator Hose. Class 35.

274,830. "M" Within Circle. Registered Sept. 9, 1930. Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York. Renewed Sept. 9, 1950. Sheet-Metal Stampings. Class 14.

274,896. Ganta. Registered Sept. 9, 1930. Forstmann & Huffmann Company. Renewed Sept. 9, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

274,897. Crysana. Registered Sept. 9, 1930. Forstmann & Huffmann Company. Renewed Sept. 9, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

274,898. Chonga. Registered Sept. 9, 1930. Forstmann & Huffmann Company. Renewed Sept. 9, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

274,921. Lorette. Registered Sept. 9, 1930. Kline Brothers Company, New York, N. Y., a corporation of Delaware. Renewed Sept. 9, 1950. Ladies', Misses', Children's Sweaters and Gloves Made of Silk, Rayon, Etc. Class 39.

275,225. La Valliere. Registered Sept. 16, 1930. The La Valliere Company. Renewed Sept. 16, 1950, to The Specialty Products Company, New Orleans, La., a partnership. Talcum Powders, Face Powders, Rouges, Lip Sticks, Skin Creams of All Descriptions, Etc. Class 51.

275,232. Mullins. Registered Sept. 16, 1930. Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York. Renewed Sept. 16, 1950. Metal Stampings. Class 14.

275,556. Bessemer. Registered Sept. 23, 1930. The Metropolitan Paving Brick Company, Canton and Minerva, Ohio, and Bessemer, Pa. Renewed Sept. 23, 1950, to Metropolitan Brick, Inc., Canton, Ohio, a corporation of Ohio. Building and Paving Bricks and Blocks. Class 12.

275,557. Metro. Registered Sept. 23, 1930. The Metropolitan Paving Brick Company, Canton and Minerva, Ohio, and Bessemer, Pa. Renewed Sept. 23, 1950, to Metropolitan Brick, Inc., Canton, Ohio, a corporation of Ohio. Building and Paving Bricks and Blocks, Etc. Class 12.

275,759. "Dual Mixed Concrete" Etc. and Design. Registered Sept. 30, 1930. The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio. Renewed Sept. 30, 1950. Concrete. Class 12.

275,811. Daily Pacific Builder. Registered Sept. 30, 1930. Stark-Rath Printing and Publishing Company, San Francisco, Calif. Renewed Sept. 30, 1950, to F. W. Dodge Corporation, New York, N. Y., a corporation of New York. Daily Trade Publication. Class 38.

275,813. Forest and Stream. Registered Sept. 30, 1930. Forest and Stream, Inc. Renewed Sept. 30, 1950, to Field & Stream Publishing Co., New York, N. Y., a corporation of New York. Monthly Magazine. Class 38.

275,833. Surepoult. Registered Sept. 30, 1930. Sperry Flour Company, San Francisco, Calif. Renewed Sept. 30, 1950, to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn., a corporation of Delaware. Poultry Food. Class 46.

275,839. Suregobble. Registered Sept. 30, 1930. Sperry Flour Company, San Francisco, Calif. Renewed Sept. 30, 1950, to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn., a corporation of Delaware. Poultry Food. Class 46.

275,841. Sureturk. Registered Sept. 30, 1930. Sperry Flour Company, San Francisco, Calif. Renewed Sept. 30, 1950, to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn., a corporation of Delaware. Poultry Food. Class 46.

275,917. Velaska. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,059. Rega. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,060. Turana. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,061. Ermina. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,062. Oriella. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,063. Kashmocha. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,064. Kashmirita. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,065. Kashmilna. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,066. Kashmirfina. Registered Oct. 7, 1930. Forstmann & Huffmann Company. Renewed Oct. 7, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,191. Velmoussa. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,192. Kashmiroda. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,193. Benita. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,194. Kashmirplaza. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,195. Velperia. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,196. Vilma. Registered Oct. 14, 1930. Forstmann & Huffmann Company. Renewed Oct. 14, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

276,784. Wafflemaster. Registered Oct. 28, 1930. Waters-Genter Co., Minneapolis, Minn. Renewed Oct. 28, 1950, to McGraw Electric Company, Elgin, Ill., a corporation of Delaware. Automatic Electric Waffle Irons. Class 21.

277,308. Bantam. Registered Nov. 11, 1930. J. H. Williams & Co., Buffalo, N. Y., a corporation of New York. Renewed Nov. 11, 1950. Wrenches, Wrench Sets, Wrench Sockets, and Tool Handles. Class 23.

277,344. Udezine. Registered Nov. 11, 1930. The Miller Company, Meriden, Conn., a corporation of Connecticut. Renewed Nov. 11, 1950. Electric-Lighting Fixtures, Table, Floor, and Bridge Lamps and Parts Thereof. Class 21.

277,427. All Barkie. Registered Nov. 11, 1930. Metro-Goldwyn-Mayer Corporation, Los Angeles, Calif. Renewed Nov. 11, 1950, to Loew's Incorporated, Culver City, Calif., a corporation of Delaware. Printed Motion-Picture Films. Class 26.

277,569. Tricol. Registered Nov. 18, 1930. The American Molasses Co. of New York, Brooklyn and New York, N. Y. Renewed Nov. 18, 1950, to American Molasses Company, New York, N. Y., a corporation of New York. Molasses. Class 46.

278,357. "Genuine Bangor Slate" and Drawing. Registered Dec. 16, 1930. Bangor Slate Association Inc., Bangor, Pa., a corporation of Pennsylvania. Renewed Dec. 16, 1950. Roofing Slate. Class 12.

278,452. Nugget. Registered Dec. 16, 1930. California Co-Operative Producers, San Francisco, Calif. Renewed Dec. 16, 1950, to Frank M. Wilson Company, Stockton, Calif., a firm. Canned Fruits, Canned Vegetables, Dried Fruits, Canned Fruits for Salad. Class 46.

278,462. Representation of Centaur. Registered Dec. 16, 1930. Chase Brass & Copper Co. Incorporated. Renewed Dec. 16, 1950, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Duck Shower-Bath Curtains. Class 42.

278,479. Allwite. Registered Dec. 16, 1930. Griffin Manufacturing Company, Inc., New York, N. Y. Renewed Dec. 16, 1950 (Supplemental Register), to Griffin Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York. Shoe Polishes, Shoe Cleaners, and Leather Preservatives. Class 4.

278,506. NB. Registered Dec. 23, 1930. Neustadter Brothers. Renewed Dec. 23, 1950, to Stettheimer Co., San Francisco, Calif., a corporation of California. Hosiery. Class 39.

278,526. Ken-L-Biskit. Registered Dec. 23, 1930. Chappel Bros., Inc., Rockford, Ill. Renewed Dec. 23, 1950, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Prepared Food for Dogs, Cats, and Other Carnivorous Animals. Class 46.

278,721. Panosan. Registered Dec. 30, 1930. Waterbury Chemical Company, Inc. Renewed Dec. 30, 1950, to Standard Laboratories, Inc., New York, N. Y., a corporation of Delaware. Medicines and Pharmaceutical Preparations in the Form of Compounds Containing Cod-Liver Oil for Use as General Tonics for Human Use. Class 18.

278,791. "Pine Grove" and Design. Registered Dec. 30, 1930. Hoberg Paper & Fibre Company, Green Bay, Wis. Renewed Dec. 30, 1950, to National Tea Co., Chicago, Ill., a corporation of Illinois. Toilet Paper, Paper Towels, and Napkins. Class 37.

279,023. Prestige. Registered Jan. 6, 1931. Samuel I. Burd, doing business as Burd Buyers Service, Philadelphia, Pa. Renewed Jan. 6, 1951, to Lycoming Hosiery Company, Inc., New York, N. Y., a corporation of Pennsylvania. Hosiery. Class 39.

279,461. Zee. Registered Jan. 13, 1931. National Paper Products Company. Renewed Jan. 13, 1951, to Comfort Paper Corporation, San Francisco, Calif., a corporation of Nevada. Toilet Paper. Class 37.

279,852. Lady Luck. Registered Feb. 3, 1931. Euclid Candy Company of California, Inc., San Francisco, Calif., a corporation of California. Renewed Feb. 3, 1951. Candy. Class 46.

279,913. Whirlwind. Registered Feb. 3, 1931. George F. Pettinos, Philadelphia, Pa. Renewed Feb. 3, 1951. Pulverizing Machines. Class 23.

279,982. "Dr.M.A.Simmons" and Portrait. Registered Feb. 10, 1931. C. F. Simmons Medicine Co., Incorporated. Renewed Feb. 10, 1951, to Standard Laboratories, Inc., New York, N. Y., a corporation of Delaware. Laxative Medicine. Class 18.

280,268. Desert Sun. Registered Feb. 10, 1931. A. B. Cliff, doing business as Racing Teal Ranch, Pasadena and Thermal, Calif. Renewed Feb. 10, 1951, to Desert Sun Ranch, Thermal, Calif., a firm. Fresh Citrus Fruits, Fresh Dates, Fresh Grapes. Class 46.

280,269. "Dartland" and Design. Registered Feb. 10, 1931. Robert H. Dart, Sacramento, Calif. Renewed Feb. 10, 1951. Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Melons—Namely, Cantaloupes, Honeydew Melons. Class 46.

280,445. Martexin. Registered Feb. 17, 1931. Martin Dyeing and Finishing Co. Renewed Feb. 17, 1951, to Martin Corporation, Bridgeton, N. J., a corporation of New Jersey. Cotton Piece Goods. Class 42.

280,517. Missimplicity. Registered Feb. 17, 1931. The H. W. Gossard Co. Renewed Feb. 17, 1951, to The H. W. Gossard Co., Chicago, Ill., a corporation of Illinois. Combination Garments for Women Comprising a Combination Corset and Brassière. Class 39.

280,519. New-Plex. Registered Feb. 17, 1931. Wimelbacher & Rice. Renewed Feb. 17, 1951, to Wimelbacher & Rice Inc., New York, N. Y., a corporation of New York. Leather and Fabric Gloves. Class 39.

280,586. Bold Face. Registered Feb. 24, 1931. Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey. Renewed Feb. 24, 1951. Pencils. Class 37.

280,621. "Broad Arrow" and Design. Registered Feb. 24, 1931. Hughes Fawcett, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 24, 1951. Linen, Cotton, and Silk Threads and Yarns. Class 43.

280,937. Hydro-Steamatic. Registered Mar. 3, 1931. United Conveyor Corporation, Chicago, Ill., a corporation of Illinois. Renewed Mar. 3, 1951. Combination Pneumatic and Sluice Conveyors and Conveying Systems, Comprising a System of Pipes Forming a Conduit, Etc. Class 23.

280,981. Hydro-Nuveyor. Registered Mar. 3, 1931. United Conveyor Corporation, Chicago, Ill., a corporation of Illinois. Renewed Mar. 3, 1951. Combination Pneumatic and Sluice Conveyors and Conveying Systems Comprising a System of Pipes, Forming a Conduit, Etc. Class 23.

TRADE-MARK REGISTRATIONS CANCELED

238,198. "Dimple Scots" and Design. Registered Jan. 31, 1928. John Haig & Co. Ltd., Markinch, Scotland. Scotch Whiskey. Class 49. Canceled Oct. 27, 1950.

281,221. Velour 500. Registered Mar. 10, 1931. Vanetta Velvet Co., Inc., New York, N. Y. Pile Fabrics in the Piece. Class 42. Canceled Oct. 25, 1950.

300,610. Breez-Way. Registered Jan. 24, 1933. Branston Hat Co., Plainfield, N. J. Men's, Women's and Children's Straw Hats. Class 39. Canceled Oct. 11, 1950.

348,252. 2-Fisted. Registered July 20, 1937. Butler Brothers, Chicago, Ill. Gloves and Mittens Made of Leather, Fabric, Etc. Class 39. Canceled Nov. 16, 1950.

349,728. No. 7. Registered Aug. 31, 1937. Smooth-On Manufacturing Company, Jersey City, N. J. Hydraulic Iron Cement in Powder Form, Etc. Class 12. Canceled Nov. 16, 1950.

373,746. Manco. Registered Dec. 19, 1939. Manning Mfg. Co., Rutland, Vt. Lubricating Oil, and Gasoline. Class 15. Canceled Oct. 25, 1950.

380,173. "Mark of Tested Quality" and Design. Registered Aug. 13, 1940. Doughnut Corporation of America, New York, N. Y. Prepared Flour for Waffles, Griddle Cakes, Etc. Class 46. Canceled Oct. 27, 1950.

381,480. Perma-Lube. Registered Sept. 24, 1940. Superior Piston Ring Co., Inc., Detroit, Mich. Piston Rings. Class 35. Canceled Nov. 16, 1950.

382,700. Gold Treasure. Registered Nov. 12, 1940. L'Hermitage-Elk Grove, Elk Grove, Calif. Wines. Class 47. Canceled Nov. 16, 1950.

383,322. Silver Treasure. Registered Dec. 3, 1940. L'Hermitage-Elk Grove, Elk Grove, Calif. Wines. Class 47. Canceled Nov. 16, 1950.

403,944. O-Ho-Cho. Registered Oct. 26, 1943. Walter Schoenfeld, doing business as Grain Candy Bar Manufacturing Company, St. Paul, Minn. Candy Bars. Class 46. Canceled Nov. 16, 1950.

441,884. RoKa. Registered Jan. 18, 1949. Rosenthal & Kaplan, New York, N. Y. Finger Rings. Class 28. Canceled Nov. 16, 1950.

510,790. Topsal. Registered June 7, 1949. Cudahy Brothers Co., Cudahy, Wis. Hog Food, Etc. Class 46. Canceled Nov. 15, 1950.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

502,631. Tern. Registered Oct. 5, 1948. Lorraine Compounds, Inc., by change of name Tern, Incorporated. Wool Washing Detergent. Class 4. New certificate under section 7(c) issued Dec. 19, 1950, to Louis Garcelon, Jr., Boston, Mass.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 285,047. Registered July 14, 1931. Larvacide Service Inc., New York, N. Y. Republished by Innis, Speiden & Co., New York, N. Y., a corporation of Delaware.

SERVACIDE

For Insecticides.
Claims use since September 1929.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 53,674. Registered June 12, 1906. Acme Cement Plaster Co., St. Louis, Mo. Republished by Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland.

ACME

For Plaster—Wall Plaster, Plaster-of-Paris, Calcined Plaster, and Stucco.
Claims use since Feb. 14, 1889.

Reg. No. 182,182. Registered Apr. 1, 1924. Benjamin Berman, doing business as Stonhard Company, Cleveland, Ohio. Republished by Stonhard Company, Philadelphia, Pa., a corporation of Pennsylvania.

STONHARD·PRODUCTS· PRESERVE

The words "Products Preserve" are disclaimed apart from the mark as shown.

For Liquid Preparation for Use as a Concrete Hardener and Foundation Coating, a Waterproofing Compound, a Wood Preservative, and an Antifreeze Solution for Concrete.

Claims use since Nov. 1, 1922.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 275,694. Registered Sept. 30, 1930. Gulf States Steel Company, Birmingham, Ala. Republished by Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey.

GULFSTEEL

For Products Made From Steel and/or Iron and/or Metal Alloys as Follows: Barb Wire, Nails, Brads, Spikes, Wire Fencing, Staples, Bale Ties, and Bands.
Claims use since Feb. 1, 1930.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Reg. No. 196,190. Registered Mar. 10, 1925. Windsor Wax Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Hoboken, N. J.

WINDSOR

For Wax Compositions in Liquid, Paste, and Powdered Form for Polishing Furniture, Woodwork, Wood Floors, Composition Floors, Linoleum, Automobiles, and Metal and Painted Surfaces and the Like.
Claims use since December 1923.

Reg. No. 256,511. Registered May 21, 1929. Everseal Manufacturing Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Everseal

For Paints, Ready Mixed, Liquid, Paste, or Semipaste: House Paint, Flat Wall Paint, Gloss Wall Finish Paint, Industrial Paints, Barn Paints, Floor Paint, Exterior-Surface Paints, Structural-Steel Paint, Black Asphalt Enamel, Hot-Surface Paint, Dampproofing Paint, Waterproofing Paint, Plastic Paint, Paint Enamels, Japans, Varnishes, Stains, Lacquers, Prepared Shellacs, Driers, Primers; Elastic Paints for Use on Paper, Felt, Canvas, or Tin Roofing, Rain-Water Pipes, Sluice Boxes, Water Troughs and Gutters, Copings, and Iron Fences; Fillers for Wood, Metal, and Other Materials; Waxes prepared for Wood Finishing, Paint Oils, Paint Pigments, Oil Colors, Leaded Zinc, Lithopone, White Lead (Dry and in Oil), Red Lead, White Zinc, Dry Pigment Colors for Use in Making Paints, Paint and Varnish Removers, Paint Coatings for School-Board Slates and the Like, Putty in Paste and Liquid Form for Use in Glazing, Bronzing Liquids, Gold Paint, Gold Enamel, Aluminum Paint, Polishing Oils, Polishing Wax, Size Prepared for Painters' Use, and Calcimines, Turpentine, and Linseed Oil.
Claims use since June 4, 1919.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 360,592. Registered Sept. 20, 1938. Floret Products Co., New York, N. Y., a firm. Republished by registrant.

SIZ LAX

For Effervescent Laxative Preparation for the Relief of Sour Stomach, Heartburn, Gas on Stomach, Flatulence, Belching, Headache, and Bad Breath Caused by Gastric Hyperacidity or Temporary Constipation, and Over-Indulgence in Eating or Drinking.
Claims use since Apr. 12, 1938.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 271,911. Registered June 17, 1930. Pile Bros., Inc., Denver, Colo. Republished by Price Battery Corporation, Hamburg, Pa., a corporation of Pennsylvania.

Thor

For Storage Batteries and Parts Thereof.
Claims use since on or about June 1, 1924.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 274,548. Registered Sept. 2, 1930. Regal Typewriter Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

REGAL

For Typewriting Machines and Parts Thereof.
Claims use since Apr. 15, 1922.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Reg. No. 361,760. Registered Nov. 1, 1938. Electric Household Utilities Corporation, Chicago, Ill. Republished by Thor Corporation, Chicago, Ill., a corporation of Illinois.

Thor

For Clothes Dryer.
Claims use since Aug. 4, 1937.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 80,503. Registered Dec. 27, 1910. The Western Clock Mfg. Co., Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

SLEEPMETER

For Clocks and Watches.
Claims use since Aug. 1, 1910.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Reg. No. 271,180. Registered May 27, 1930. Quaker Silver Company, Attleboro, Mass. Republished by Quaker Silver Co., Inc., North Attleboro, Mass., a corporation of New York.

QUAKER SILVER

The word "Silver" is disclaimed apart from the mark as shown.
For Salt and Pepper Shakers, Candlesticks, Vases, Atomizers, and Casters, All Made of or Plated With Precious Metal.
Claims use since February 1926.

Reg. No. 277,162. Registered Nov. 11, 1930. Sigma Alpha Epsilon Fraternity, Evanston, Ill., a corporation of Illinois. Republished by registrant.

ΦA

For Fraternity Badges and Lapel Buttons Wholly or in Part of Precious Metal.
Claims use since 1856.

Reg. No. 394,460. Registered Apr. 7, 1942. Kimberly Gem Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

BLU-BRITE K MINED ZIRCONS

The words "Mined Zircons" and "Blu-Brite" are disclaimed apart from the mark as shown.
For Zircons and Articles of Jewelry Set or Mounted With Zircons, Not Including Watches.
Claims use since Oct. 10, 1941.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 440,662. Registered Sept. 14, 1948. Jackson Furniture Company, Oakland, Calif., a corporation of California. Republished by registrant.

JACKSONS

For Furniture and Furnishings—Namely, Bedroom, Dining Room, Wood and Upholstered Furniture, Divans, Bed Springs, Mattresses; Summer or Outdoor Furniture—Namely, Chairs, Tables; Juvenile and Infant Furniture; Mirrors; and Desks.
Claims use since Jan. 1, 1947.

Reg. No. 444,012. Registered May 30, 1950. Jackson Furniture Company, Oakland, Calif., a corporation of California. Republished by registrant.

JACKSON FURNITURE CO.

For Home Furniture and Furnishings—Namely, Bedroom, Dining Room, Wood and Upholstered Furniture, Divans, Bed Springs, Mattresses; Summer or Outdoor Furniture—Namely, Chairs, Tables; Juvenile and Infant Furniture; Mirrors; and Desks.
Claims use since about July 1892.

CLASS 37

PAPER AND STATIONERY

Reg. No. 253,611. Registered Mar. 5, 1929. Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Republished by registrant.

The trade-mark consists of a circumferential red band applied to the article in connection with which it is used and positioned at some distance from one end thereof.
For Lead Pencils, Pencil-Point Protectors, Pencil Holders, Pencil Lengtheners, and Flat Pocket Pencils.
Claims use since about Dec. 1, 1905.

Reg. No. 278,802. Registered Dec. 30, 1930. Riegel Paper Corporation, Riegelsville, N. J., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

The word "Papers" is disclaimed apart from the mark as shown.
For Wrapping Paper, Bristol Board, Cover Paper, and Tag Board; Rope, Jute, and Sulphite Pulp Papers—Namely, Tag Board, Manila, and Bristols; and Glassine Papers.
Claims use since May 15, 1930.

Reg. No. 317,526. Registered Sept. 25, 1934. Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Republished by registrant.

CHEMI-SEALED

For Lead Pencils.
Claims use since Dec. 12, 1933.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 273,431. Registered Aug. 5, 1930. Advertising Publications, Incorporated, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Advertising Age

For Periodical.
Claims use since Jan. 11, 1930.

Reg. No. 273,467. Registered Aug. 5, 1930. Fall River Herald News Publishing Company, Fall River, Mass., a corporation of Massachusetts. Republished by registrant.

Herald FALL RIVER News

For Daily Newspaper Published Every Day Except Sundays and Holidays.
Claims use since on or about June 14, 1926.

Reg. No. 289,577. Registered Dec. 1, 1931. Post-Enquirer Publishing Company, Oakland Calif. Republished by Hearst Publishing Company, Inc., Oakland, Calif., a corporation of Delaware.

THE POST-ENQUIRER

For Vignette or Masthead on a Daily Newspaper Published by It.
Claims use since Jan. 1, 1922.

CLASS 39

CLOTHING

Reg. No. 175,362. Registered Nov. 6, 1923. The Tailored Woman, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

POGO

For Wearing Apparel—Namely, Dresses for Women.
Claims use since Feb. 8, 1923.

Reg. No. 381,680. Registered Oct. 1, 1940. The Tailored Woman, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

ALIBI

For Women's and Misses' Coats, Suits, Dresses, Sweaters, Jackets, Outer Skirts, Slacks, Blouses, Neckwear Comprising Collars, Dickies, Gilets, Guimpes, and Ties, Negligees, Underwear, Corsets, Hosiery, Gloves of Leather and Textile Fabrics, Raincoats, Hats, Caps, Hooded Jackets, Evening Jackets, Evening Wraps, Evening Dresses, Bathing Suits, Beach Robes, Play Suits, Bathrobes, Tennis Dresses, Tennis Shorts, and Tennis Skirts.
Claims use since Apr. 22, 1940.

Reg. No. 413,126. Registered Apr. 10, 1945. Jensen Manufacturing Company, Seattle, Wash. Republished by Jen-Cel-Lite Corporation, Seattle, Wash., a corporation of Washington.

Jen-Cel-Lite

The word "Lite" is disclaimed apart from the mark as shown.
For Men's and Women's Quilted Garments—Namely, Coats, Jackets, Blouses, Parkas, Hoods, and Trousers.
Claims use since June 19, 1944.

Reg. No. 422,760. Registered Aug. 13, 1946. The Tailored Woman, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

POSTAGE STAMP

For Women's and Misses' Wearing Apparel—Namely, Bathing Suits, Hats, Play Suits, and Outer Shorts.
Claims use since May 18, 1945.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 271,180. Registered May 27, 1930. Quaker Silver Company, Attleboro, Mass. Republished by Quaker Silver Co., Inc., North Attleboro, Mass., a corporation of New York.

The word "Silver" is disclaimed apart from the mark as shown.
For Salt and Pepper Shakers, Candlesticks, Vases, Atomizers, and Casters, All Made of or Plated with Precious Metal.
Claims use since February, 1926.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 359,107. Registered Aug. 2, 1938. Berkeley Club Bottling and Manufacturing Company, Inc., Berkeley Springs, W. Va., a corporation of West Virginia. Republished by registrant.

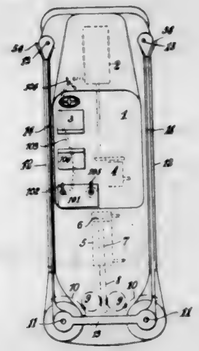
Berkeley Club

The word "Berkeley" is disclaimed apart from the mark as shown.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used for Making the Same.
Claims use since on or about June 1, 1924.

REISSUES

DECEMBER 19, 1950

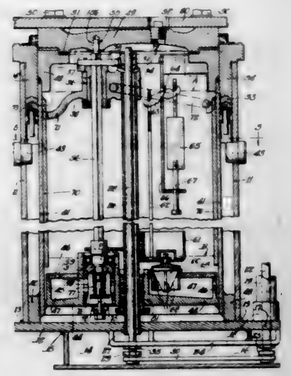
23,308
STARTING GATE FOR HARNESS HORSES
Stephen G. Phillips, Garden City, N. Y.
Original No. 2,497,370, dated February 14, 1950, Serial No. 684,584, July 18, 1946. Application for reissue May 5, 1950, Serial No. 160,346
5 Claims. (Cl. 119—15.5)



4. A race track starting gate for harness horses comprising in combination an automobile, a starting gate member on each side of the automobile, means pivotally connecting said gate members to the automobile to swing toward the same into a position alongside thereof and to swing away from the automobile into an outward perpendicular position relative thereto while the automobile is moved along a race track, gearing means on each of said members and a power actuated mechanism on said automobile permanently engaging said gearing means to simultaneously swingably operate the said gate member as aforesaid.

23,309
FLUID ACTUATED LOAD LIFTING AND LOWERING MECHANISM
Ira A. Weaver, Springfield, Ill., assignor to Weaver Engineering Co., a corporation of Illinois
Original No. 2,471,989, dated May 31, 1949, Serial No. 788,381, November 28, 1947. Application for reissue April 4, 1950, Serial No. 153,881
8 Claims. (Cl. 121—46)

7. In a load lifting and lowering mechanism of the type having an upstanding cylinder accommodating a hollow piston with a pressure seal between them allowing the piston to reciprocate in the cylinder, said cylinder having a bottom wall, said hollow piston being adapted to contain a liquid and having a bottom wall, the combination of means providing an air chamber below the bottom wall of the cylinder, a first upstanding air tube outside the cylinder and connected at its lower end to said air chamber, a second upstanding air tube in said piston and extending down through the bottom walls of the piston and cylinder with its lower end in communication with said air chamber and its upper end in communication with the interior of the piston above the highest liquid level therein, controllable means near the top of said first air tube to admit air under pressure into the first air tube and cause it to discharge from the second air tube into said piston, or to discharge air from the interior of the piston to atmosphere, a control valve having an open position for admitting liquid under pressure from the interior of the piston to the interior of the cylinder beneath the piston to raise the piston and for returning the liquid from the interior of

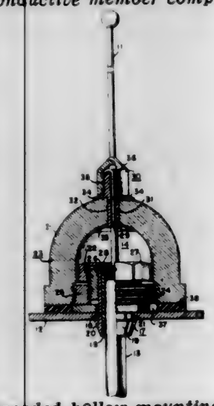


the cylinder beneath the piston to the interior of the piston to allow the piston to lower, said control valve having a closed position in which it positively traps the liquid in the cylinder against return to the interior of the piston, said control valve being of a character whereby in its closed position positively to prevent admission of further liquid from the interior of the piston to the interior of the cylinder beneath the piston under the action of the air above the level of the liquid in the piston, and manually-operable means occupying said first air tube, said air chamber and said second air tube and connected to said control valve for operating said valve to its open and closed position.

23,310
STANDOFF INSULATOR
Kenneth Eriksen and Carl W. Concelman, Brookfield, Conn., assignors to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Original No. 2,476,407, dated July 19, 1949, Serial No. 8,414, February 14, 1948. Application for reissue July 15, 1950, Serial No. 173,964
10 Claims. (Cl. 174—158)

10. A stand-off insulator for supporting an antenna in insulated spaced relation to the sur-

face of a conductive member comprising: an externally threaded hollow mounting structure including a projecting portion provided with spaced latch elements movable to permit the insertion of said projecting portion through an aperture in said conductive member and thereafter to latch said projecting portion in said aperture; an insulator structure including a member threaded onto said threaded mounting structure for clamping said conductive member between said latch elements and said last-mentioned member; and an internally threaded and apertured conductive cap member threaded onto said mounting structure and adapted electrically and mechanically to connect to said mounting structure the outer conductor of a coaxial transmission line which extends through said mounting structure; said insulator structure including means for detachably supporting thereon said antenna in insulated spaced relation to said conductive member and for electrically connecting the inner conductor of said transmission line to said antenna.



PLANT PATENTS

GRANTED DECEMBER 19, 1950

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,000
ROSE PLANT
Henry Matheson Eddie, Vancouver, British Columbia, Canada, assignor to H. M. Eddie & Sons, Ltd., Vancouver, British Columbia, Canada, a corporation of British Columbia
Application February 14, 1950, Serial No. 144,074
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its vigorous growth, its extraordinary resistance to disease, its abundant, large dark green, glossy foliage, its strong peduncle, its large, high-centered, long-lasting well-formed flowers which are basically capucine buff in color and composed of heavy-textured, satiny petals, and by the great abundance of flowers produced throughout the blooming season, substantially as shown and described.

PATENTS

GRANTED DECEMBER 19, 1950

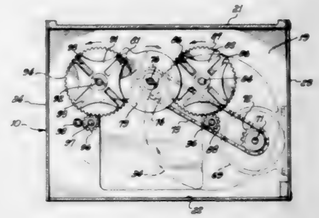
2,534,212
PROCESS FOR PRODUCING MUCONIC ACID AND ITS DERIVATIVES
Anton Wacek, Graz, Austria, assignor to Harald Frederiksen, New York, N. Y.
No Drawing. Application December 9, 1948, Serial No. 64,430
14 Claims. (Cl. 260—537)

1. A process for producing a compound selected from the group consisting of muconic acid and its derivatives, said process comprising the steps of dissolving a phenol compound in a solution of a peracid dissolved in a solvent for the phenol to be treated, and adding a metal salt acting as a catalyst to the phenol solution thus obtained.

2,534,213
PULLDOWN DEVICE FOR ROTARY DRILLING APPARATUS
Emmett Lee Alexander, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application June 24, 1946, Serial No. 678,977
9 Claims. (Cl. 255—22)

3. A device of the character described including a kelly rod, kelly rod rotating means, a pulldown unit having a yoke journalling said rotating means, an automatic chuck head having a neck portion having direct positive connection with said rotating means, jaws movably supported in said head and arranged about the kelly, springs urging the jaws into gripping contact with the kelly rod, backing means in said head for engaging the jaws, a drive member carried by said head and separate from said direct connection and having a drive bushing engaging seat, a drive bushing in said seat, key members carried by the drive bushing and engaging grooves in said kelly rod for connecting the kelly rod with said rotating means, a collar slidable on said neck portion and rotatable with said chuck head, rods carried by the collar and extending into the head of said chuck at points intermediate the jaws, a shift plate carried by said rods within said chuck head in encircling relation with the kelly and having means engageable with upper ends of the jaws to move the jaws out of contact with the kelly rod, a lever member pivoted to the yoke and connected with the collar for shifting the collar on said neck portion, and latch means carried by the collar for holding said shift plate in and out of jaw engagement.

2,534,214
CAMERA SHUTTER AND FILM ACTUATING MECHANISM
Philip S. Allen, Long Beach, Calif.
Application June 20, 1947, Serial No. 755,849
5 Claims. (Cl. 88—18.3)

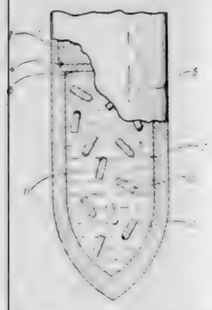


1. In an automatic photographic apparatus for taking a series of pictures in a sequence on a sensitized strip of film of the type including film-exposing means comprising a passageway for image-carrying light rays and a rotatable shutter to intercept said rays, film-supplying means comprising a film magazine, guides to direct said film into position to intercept said rays, and roller-propelling means for said film; means to actuate said shutter and said propelling means sequentially comprising a driving motor, a shaft rotated by said motor, a pair of Geneva gears spaced arcuately around said shaft, means carried by said shaft to actuate said gears sequentially through an arc of rotation less than 360 degrees, a first and second gear rotatable with said Geneva gears, a first pinion engaging said first gear and rotatable through an arc of 360 degrees upon its rotation through said lesser arc, a second pinion engaging said second gear, said shutter being directly connected to said first pinion for rotation therewith and said propelling means being connected to said second pinion for operation thereby.

2,534,215
THERMIT AMMUNITION
Maurice E. Barker, Washington, D. C., assignor to the United States of America as represented by the Secretary of War
Application February 12, 1942, Serial No. 430,609
9 Claims. (Cl. 102—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

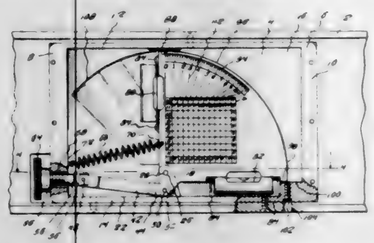
4. In an explosive shell, a dispersible charge of combustible fluid and a plurality of pellets, each

of which embodies a casing and a filling including a charge of incendiary composition of the



class of Thermit and a wad of combustible powder.

2,534,216
COMPUTING LEVEL
Lewis A. Barnett, Asheville, N. C.
Application September 23, 1947, Serial No. 775,571
2 Claims. (Cl. 33—214)



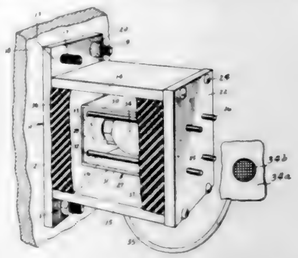
1. In a computing level comprising a frame normally disposed in a vertical plane, a segmental plate pivoted at the apex thereof to be movable in a vertical plane about the pivotal mounting thereof, a stationary pointer upon the frame in effective position to have the arcuate edge of the segmental plate at all times disposed in reference position thereto, and graduations located along said arcuate edge on said plate beneath said pointer, the improvements which include having the frame substantially rectangular and open with end frame members and horizontal top and bottom frame members with the pointer attached to the top frame member and the pivotal mounting of the segmental plate disposed upon the bottom frame member, having the segmental plate quadrant shaped with two bubble levels fixed at the two radial edges of said segmental plate at right angles to each other, the pivotal mounting of the quadrant shaped segmental plate allowing it to be partly rotated upon said pivotal mounting from a zero position in which one radial edge is substantially parallel with the bottom frame member to another position in which the other radial edge is disposed at less than a right angle to said bottom frame member, an integral extension or lug depending from the apex portion of said segmental plate in alignment with one radial edge of the latter, an endwise adjustable screw extending rotatably through one end frame member with a rotatable nut screwed on the outer end exteriorly of said one end frame member and having an apertured lug upon the inner end within the latter end frame member, and a link above the bottom frame member which is bifurcated at both ends and pivotally connected at one bifurcated end to said integral extension or lug upon said segmental plate and at the other bifurcated end pivotally connected to the apertured lug on the inner end of said screw.

2,534,217
LUBRICANT COMPRISING REACTION PRODUCT OF AN OLEFIN, A PHOSPHORUS SULFIDE, AND WATER
John D. Bartleson, East Cleveland, Ohio., assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 6, 1948, Serial No. 19,446
12 Claims. (Cl. 252—46.6)

1. The reaction product of one mol of an olefin, 0.2 to 2.0 mols of a phosphorus sulfide, and 0.5 to 3 mols of water per mol of the phosphorus sulfide, the water being mixed and reacted with the phosphorus sulfide at least as soon as the olefin is mixed and reacted therewith, the reaction temperature being in the range of 200° to 500° F., to produce an oil dispersible reaction product suitable for addition to a lubricating oil.

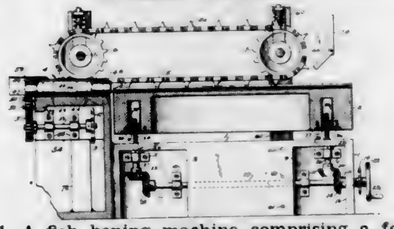
7. A mineral lubricating oil composition containing 0.5 to 50% of the reaction product of one mol of an olefin, 0.2 to 2.0 mols of a phosphorus sulfide, and 0.5 to 3 mols of water per mol of the phosphorus sulfide, the water being mixed and reacted with the phosphorus sulfide at least as soon as the olefin is mixed and reacted therewith, the reaction temperature being in the range of 200° to 500° F., to produce an oil dispersible reaction product suitable for addition to a lubricating oil.

2,534,218
SHOCK TESTING DEVICE
Arthur J. Berger, New York, N. Y.
Application June 23, 1945, Serial No. 601,283
3 Claims. (Cl. 73—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



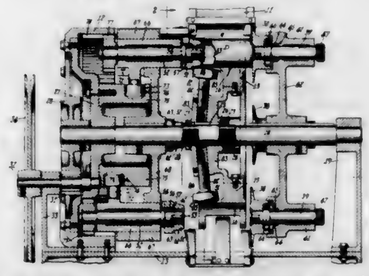
1. A device for testing the shock absorbing characteristics of material, said device comprising a rigid frame, guiding means within said frame, and an acceleration responsive device mounted slidably for oscillation on said guiding means within said frame, said acceleration responsive device at its opposite ends defining a pair of spaces relative to the internal walls of said frame for accommodating a pair of specimens of material to be tested, whereby shock transmitted to said frame opposite an end of said acceleration responsive device is transmitted through the material to be tested to effect oscillation of said acceleration responsive device between the pair of specimens.

2,534,219
FISH BONING DEVICE
Ralph M. Berglund, Bellingham, Wash., assignor to Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Washington
Application May 13, 1946, Serial No. 669,344
12 Claims. (Cl. 17—3)



1. A fish boning machine comprising a feed table having its upper surface provided with a channel, said table being grooved parallel to and on both sides of said channel, conveying means located above said grooves and moving parallel to said channel, said conveying means having guiding elements adapted to move in said grooves, driving means to move said conveying means, and cutting means aligned with said channel.

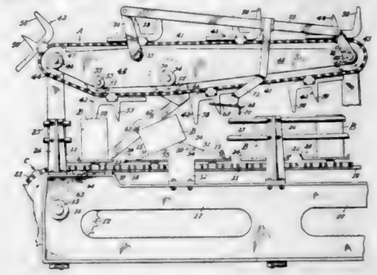
2,534,220
MACHINE FOR STRAIGHTENING CAN BODY FLANGES
Stellan Birkland, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 18, 1947, Serial No. 786,709
5 Claims. (Cl. 153—32)



1. In a machine for truing flanges on a tubular body, a rotatable spindle, means for continuously rotating said spindle, a chuck mounted on and rotatable with said spindle and engageable against one face of the flange of a body for rotating said body, spring means effective against said chuck and longitudinally of said spindle, means for holding the body against said chuck to yieldably back up the flange thereon, a fixed truing element disposed opposite said chuck, and cam means for shifting said spindle and said chuck for compressing the flange of the rotating body against said truing element to straighten said flange for subsequent use.

2,534,221
CONVEYER MECHANISM FOR TURNING ARTICLES
Frank F. Borkmann, Union, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 15, 1947, Serial No. 748,212
12 Claims. (Cl. 198—33)

1. In a conveyor mechanism for articles such as container bodies and the like, the combination of a feeding conveyor for carrying a body in an upright position along a predetermined path of travel, tumbler means disposed in the path of travel of the body, turnover conveyor means movable adjacent the path of travel of said feeding conveyor and having elements for engaging against the moving body as it approaches said



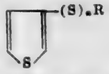
tumbler means for removing the body from said conveyor and turning it end over end over said tumbler means and for returning it to said conveyor in an inverted position, and movable stop means operable in time with said turnover conveyor means for engaging against said body during its turning movement on said tumbler means.

2,534,222
METHODS OF DETOXIFYING POISONOUS COMPOUNDS
Arno Brasch, Brooklyn, N. Y., assignor, by mesne assignments, to Electronized Chemicals Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 24, 1947, Serial No. 775,883
14 Claims. (Cl. 99—69)

1. Method of detoxifying alkaloid-containing products for human and animal consumption, without substantially affecting the taste, odor and appearance of said products by bombarding the same with high speed electrons of a velocity equivalent to more than one million volts during at least one very short time period lasting less than 10^{-4} of a second.

2,534,223
MINERAL OIL COMPOSITION CONTAINING THIENYL SULFIDES
John W. Brooks, Wenonah, and Alexander N. Sachanen, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application January 28, 1948, Serial No. 4,928
9 Claims. (Cl. 252—45)

1. An improved mineral oil composition comprising a major proportion of mineral oil and in admixture therewith a minor proportion, less than about 10 per cent by weight but sufficient to stabilize the oil against the deleterious effects of oxidation, of a compound having the general formula:

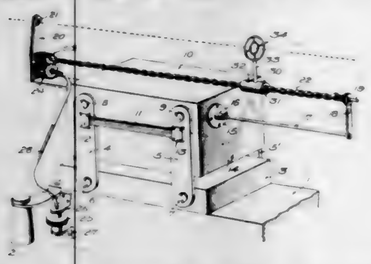


where R is selected from the group consisting of a thienyl radical and a saturated alkyl group having a carbon chain length of between 4 and 24 carbon atoms and n is a whole number ranging from 2 to 5, inclusive.

2,534,224
CRYSTAL CHECKING DEVICE
Charles L. Brown, Rockford, Ill.
Application April 6, 1945, Serial No. 587,002
1 Claim. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A crystal checking device comprising a first crystal oscillator circuit which includes an electron tube comprising cathode, grid and anode electrodes, a piezo-electric crystal of known frequency connected to the grid of the first tube, and a grid resistor connected to the grid of the first tube, a second crystal oscillator circuit which includes an electron tube comprising cathode, grid and anode electrodes, a piezo-electric crystal of unknown frequency connected to the grid of the second tube, and a grid resistor connected to the grid of the second tube, a vacuum tube voltmeter selectively connected across either grid resistor to indicate the voltage drop thereacross as a measure of crystal activity, a mixing resistor connected in the output of both oscillator circuits, an audio amplifier connected to said mixing resistor, and a transducer coupled to the output of said audio amplifier for audibly indicating the resultant beat frequency signals.

2,534,225
COMPUTING SIGHT
Leo H. Brown, Glenville, Conn.
Application October 17, 1945, Serial No. 622,913
14 Claims. (Cl. 33—49)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a lead-computing sight, a base adapted for mounting upon a gun for movement in train and elevation therewith, rod means having one end mounted at a first point on said base, a fixed sight carried by said base adjacent said first point, a second sight mounted for translation on and along said rod means to vary the separation of said sights in proportion to the range of a target, means operable to so translate said second sight, rate responsive gyroscopic means carried by said base and operable to precess in response to angular movement of said gun in any plane, and connections between said gyroscopic means and said rod means and effective to angularly displace said second sight in said plane relatively to said gun.

2,534,226
METHOD OF PREPARING PROTEIN FROM VEGETABLE SOURCES
Francis E. Calvert, Cincinnati, Ohio, assignor to The Drackett Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application September 22, 1947, Serial No. 775,563
4 Claims. (Cl. 260—123.5)

3. A method of obtaining a substantially colorless protein from oleaginous seed materials selected from the group consisting of soybean, peanut, and cottonseed, which includes the steps of adding to the material an enzyme inhibiting agent, intimately contacting the material and its entrained oil with a solvent for the protein at a pH value of more than 6.0, acidulating the solution to precipitate the protein, separating the protein from the solution, drying the protein, and thereafter removing the oil from the protein with a solvent for the oil.

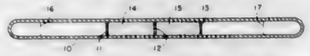
2,534,227
METHOD OF PREPARING PROTEIN FROM VEGETABLE SOURCES
Francis E. Calvert, Cincinnati, Ohio, assignor to The Drackett Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application September 22, 1947, Serial No. 775,564
9 Claims. (Cl. 260—123.5)

9. A method of obtaining a substantially colorless or white protein, which includes the steps of isolating protein from the material by treating the same with dilute acid at a pH less than 2.0, adding sodium hydroxide to precipitate the protein, separating and drying the protein, and introducing in effective amounts during the isolation process and prior to the drying of the protein a blanketing agent comprising a liquid organic compound having low solubility in water, and capable of forming an adsorption compound with protein to exclude oxygen from contact with the protein molecule, the amount of blanketing agent being substantially in excess of the amount soluble in the aqueous medium.

2,534,228
METHOD OF PRODUCING SUBSTANTIALLY COLORLESS PROTEINS FROM OLEAGINOUS SEED MATERIAL
Francis E. Calvert, Cincinnati, Ohio, assignor to The Drackett Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application September 22, 1947, Serial No. 775,565
3 Claims. (Cl. 260—123.5)

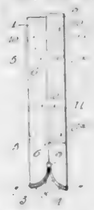
2. A method of isolating a substantially colorless protein from oleaginous seed materials, which includes the steps of treating the material with an aqueous solution of a bisulfite of a metal of Group II of the Periodic Table at a pH not greater than 3.0 to dissolve the protein and to inhibit enzyme activity, adjusting the pH of the solution to the isoelectric point to precipitate the protein, filtering the precipitate, and introducing in effective amount, and in amount substantially in excess of the amount soluble in the aqueous medium, during the isolation process a blanketing agent comprising a liquid organic compound having low solubility in water, and capable of forming an adsorption compound with protein to exclude oxygen from contact with the protein molecule.

2,534,229
METHOD AND APPARATUS FOR DETECTING HYDROGEN CYANIDE
Homer W. Carhart and John A. Krynitsky, Washington, D. C.
Application March 15, 1945, Serial No. 582,965
15 Claims. (Cl. 23—232)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of detecting the presence of hydrogen cyanide in a medium, comprising, disposing in the medium a sealed container having within it a quantity of activated charcoal and, separated therefrom, a quantity of reagent consisting essentially of a copper salt, a diaminodiphenylmethane and salicylic acid, and destroying the seal to bring said medium into contact with said reagent.

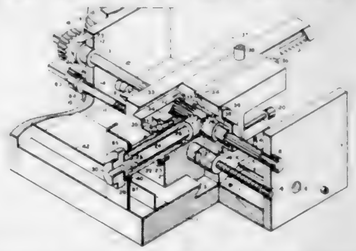
2,534,230
CUTTING TOOL
Cossie D. Chandler, Cincinnati, Ohio
Application April 11, 1945, Serial No. 587,820
1 Claim. (Cl. 29—95)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A cutting tool comprising a pair of elongated bars each having an inner and outer face, means securing the bars together with their inner faces in contact, the end of each bar being tapered inwardly from the junction of its inner and outer face, the taper of each bar extending to the meeting point of the inner faces to form a cutter for cutting fine thread, a hole in the bars spaced inwardly from the meeting point and formed by a groove in each inner face extending transversely thereof, the tapered portion being relieved inwardly and transversely thereof to such an extent that the taper opens into the groove throughout its length except for a zone at the point where the hole is spaced from said meeting point.

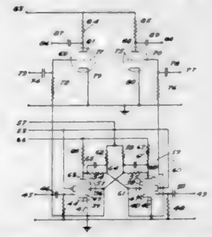
2,534,231
CAM GRINDING DEVICE
Edward C. Christian and John C. Diehl, Philadelphia, Pa.
Application June 20, 1949, Serial No. 100,211
10 Claims. (Cl. 51—232)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination with a precision grinding machine, a cam grinding device comprising a base, a block slidably mounted on said base, a cam arbor rotatably mounted in said block at right angles to the sliding direction, means for simultaneously moving said block and rotating said arbor in a predetermined relation to obtain a predetermined rise on the periphery of a cam mounted on said arbor, a pivoted sine bar on said base having a track axially positioned therein and adjustable from a position parallel to said cam arbor to a position approximately at right angles thereto, said last named means comprising means for moving said block on said base, a rack in said block mounted slidably parallel to said cam arbor and having a pin engaged in said sine bar track, whereby said rack is moved in



accordance with the angular adjusted position of said sine bar when said block is moved on said base, and mechanism operated by said rack to turn said cam arbor, said pivoted sine bar providing adjustable means for varying said predetermined relation.

2,534,232
TRIGGER CIRCUIT AND SWITCHING DEVICE
Claud E. Cleeton, Washington, D. C.
Application January 24, 1940, Serial No. 315,340
13 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

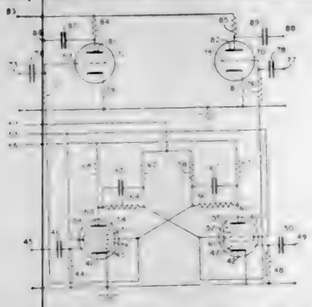


13. In combination, a plurality of vacuum tubes, each having an anode, a cathode and a control means, means connecting the tubes in trigger pairs with the anode of each tube of a pair connected to the control means of the other tube of the pair, means connecting said trigger pairs in cascade wherein the anode of at least one tube of each pair is connected to the control means of at least one tube of a succedent trigger pair and means supplying a tripping pulse to said trigger pairs in parallel.

2,534,233
ELECTRONIC TRIGGER AND SWITCH CIRCUITS
Claud E. Cleeton, Washington, D. C.
Original application January 24, 1940, Serial No. 315,340. Divided and this application August 13, 1948, Serial No. 44,211
8 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. In combination, an electronic relay means including two multi-grid electron tubes operative to have two stable states said multi-grid tubes responsive to negative pulses for reversing the conductivity state of said tubes, an amplifying means including two other electron tubes and means controlling said amplifying means com-

prising a control grid in each of said other electron tubes, and means directly connecting and



coupling each of said control grids to a grid of a respective one of said multi-grid electron tubes.

2,534,234

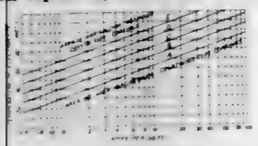
ELECTROCOATING METHOD

George C. Cox, Charleston, W. Va.

Continuation of application Serial No. 733,213, March 7, 1947. This application February 20, 1948, Serial No. 9,933

7 Claims. (Cl. 204—56)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The process of producing a two component protective coating on a metal surface which comprises the steps of submerging that part of the metal surface to be coated in an aqueous electrolyte, maintaining said part of the metal surface cathodic, maintaining the effective current density on the cathodic metal surface greater than 0.4 ampere per square foot, maintaining the cation content of said electrolyte to consist essentially of magnesium ions, other alkaline earth ions, and ions of an alkali in sufficient quantity to cause plating action to occur, maintaining the pH factor of said electrolyte within the range between the limits of 4.0 and 9.5, and maintaining the temperature of the electrolyte below the boiling point under the operating conditions and within the range expressed by the equations $T=34 \log_{10} X+30$ and $T=34 \log_{10} X+70$, where T is the temperature in degrees centigrade and X is the effective current density on the cathodic metal surface in amperes per square foot.

2,534,235

8-HALOXANTHINE SALTS OF DIALKYLAMINOALKYL TYPE ANTIHISTAMINE BASES

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application January 19, 1949, Serial No. 71,763

7 Claims. (Cl. 260—253)

1. A salt of an organic base and an 8-haloxanthine which contains a hydrogen atom in position 7, said organic base being a member of the group of anti-histaminic agents consisting of 8-di(lower alkyl)amino-lower-alkyl-acridans, 10-di(lower alkyl)amino-lower-alkylthioxanthenes, 9-di(lower alkyl)amino - lower-alkyl-9,10-dihydroanthracenes and 1,1-di(monocyclic aryl)-3-di(lower alkyl)amino-lower-1-alkanols.

2,534,236

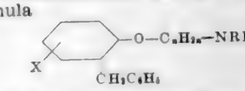
8-HALOXANTHINE SALTS OF DIALKYLAMINOALKYL o-BENZYLPHENYL ETHERS AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 14, 1949, Serial No. 93,415

10 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of a basic ether of the formula



wherein X is a member of the group consisting of hydrogen, halogen and lower alkoxyl radicals, n is an integer from 2 to 5 and R and R′ are lower alkyl radicals, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,237

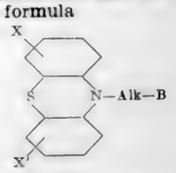
8-HALOXANTHINE SALTS OF AMINOALKYL PHENOTHIAZINES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application May 21, 1949, Serial No. 94,737

16 Claims. (Cl. 260—243)

1. An 8-haloxanthine salt of a basic phenothiazine of the formula



wherein X and X′ are members of the group consisting of hydrogen, halogen, lower alkyl and lower alkoxyl radicals, Alk is a lower alkylene radical and B is an amino radical selected from the group consisting of di(lower alkyl)-amino, (lower hydroxyalkyl)(lower alkyl)amino, and saturated monocyclic heterocyclic amino radicals, wherein nitrogen is the sole hetero element, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,238

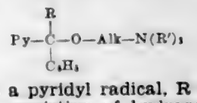
8-HALOXANTHINE SALTS OF α-PHENYL-α-2-PYRIDYLALKYL DIALKYLAMINOALKYL ETHERS AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 2, 1949, Serial No. 102,957

14 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of a basic ether of the formula



wherein Py is a pyridyl radical, R is a member of the group consisting of hydrogen and lower alkyl radicals, Alk is a lower alkylene radical and R′ is a lower alkyl radical, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,239

8-HALOXANTHINE SALTS OF DIARYLALKYLAMINES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 2, 1949, Serial No. 102,958

14 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of an organic base of the formula

$(C_6H_5)_2CH\text{-}Alk\text{-}B$

wherein Alk is a lower alkylene radical and B is a tertiary amino radical of the group consisting of di(lower alkyl)amino and six-membered saturated heterocyclic radicals wherein nitrogen is the sole hetero element and the heterocyclic amino radical is linked to Alk through nitrogen, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,240

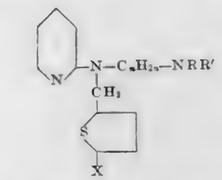
8-HALOXANTHINE SALTS OF N,N-DIALKYL-N′-PYRIDYL-N′-THENYLALKYLENEDIAMINES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 7, 1949, Serial No. 103,530

13 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of a compound of the formula



wherein R and R′ are lower alkyl radicals, n is an integer from 2 to 5 and X is a member of the group consisting of hydrogen and halogen atoms, and wherein the 8-haloxanthine has a hydrogen atom in position 7.

2,534,241

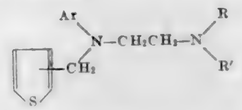
8-HALOXANTHINE SALTS OF N,N-DIALKYL-N′-ARYL-N′-THENYL-ETHYLENEDIAMINES

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application October 25, 1949, Serial No. 123,541

7 Claims. (Cl. 260—253)

1. An 8-halotheophylline salt of an organic base of the formula



wherein Ar is a phenyl radical, and R and R′ are lower alkyl radicals.

2,534,242

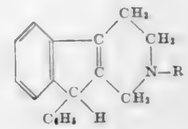
8-HALOXANTHINE SALTS OF 2-ALKYL-9-PHENYL-2,3,4,9-TETRAHYDRO - 1 - PYRIDINDENES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application November 2, 1949, Serial No. 125,155

7 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of an organic base of the formula



wherein R is a lower alkyl radical, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,243

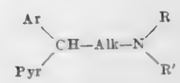
8-HALOXANTHINE SALTS OF 1-ARYL-1-PYRIDYL - 3 - DIALKYLAMINOALKANES AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application November 4, 1949, Serial No. 125,660

12 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of an organic base of the formula



wherein Ar is a radical selected from the group consisting of phenyl and chlorophenyl radicals, Pyr is an α-pyridyl radical, Alk is a lower alkylene radical, and R and R′ are lower alkyl radicals, and wherein the 8-haloxanthine contains a hydrogen atom in position 7.

2,534,244

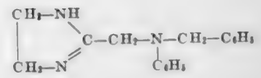
8-HALOXANTHINE SALTS OF 2-(PHENYLBENZYLAMINO - METHYL)IMIDAZOLINE AND THE PRODUCTION THEREOF

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application November 16, 1949, Serial No. 127,800

7 Claims. (Cl. 260—253)

1. An 8-haloxanthine salt of an organic base of the formula



wherein the 8-haloxanthine contains a hydrogen atom at position 7.

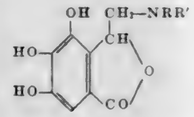
2,534,245

8-HALOXANTHINE SALTS OF 3'-DIALKYL-AMINOMETHYL - 4, 5, 6 - TRIHYDROXY-BENZO-(1,2)-FURAN-1'-(3')-ONES

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application November 30, 1949, Serial No. 130,371
5 Claims. (Cl. 260—253)

1. A salt of an organic base of the formula



wherein R and R' are lower alkyl radicals, with an 8-haloxanthine which has a hydrogen atom in position 7.

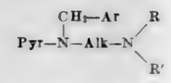
2,534,246

8-HALOXANTHINE SALTS OF N,N-DIALKYL-N'-ARYLMETHYL- N'- PYRIMIDYL-ALKYL-ENEDIAMINES AND PROCESS FOR PREPARING SAME

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application January 21, 1950, Serial No. 139,969
12 Claims. (Cl. 260—253)

1. A salt of an organic base of the formula



wherein Pyr is a pyrimidyl radical, Ar is a monocarbocyclic aromatic radical, Alk is a lower alkylene radical and R and R' are lower alkyl radicals, with an 8-haloxanthine which contains a hydrogen atom in position 7.

11. The process of producing an 8-halotheophylline salt of an N,N-di(lower alkyl)-N'-(monocarbocyclic aryl)-methyl-N'-(2-pyrimidyl)ethylenediamine which comprises reacting an 8-halotheophylline with at least one equivalent of the aforesaid organic base in a hot, inert, water-miscible organic solvent, and separating the salt thus formed.

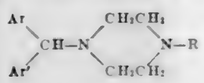
2,534,247

8-HALOXANTHINE SALTS OF 1-DIARYL-METHYL-4-ALKYLPIPERAZINE

John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 10, 1950, Serial No. 143,593
8 Claims. (Cl. 260—253)

1. A salt of an organic base of the formula



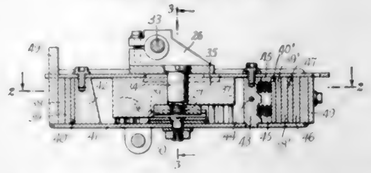
wherein Ar and Ar' are monocarbocyclic aromatic radicals and R is a lower alkyl radical, with an 8-haloxanthine which contains a hydrogen atom in position 7.

2,534,248

SHOCK ABSORBER AND ACCELERATOR

August A. Danielsen, Rosedale, and Armand P. Schleret, Babylon, N. Y., assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York

Original application May 8, 1944, Serial No. 534,596. Divided and this application January 4, 1946, Serial No. 639,116
9 Claims. (Cl. 267—1)



1. In a shock absorber, two relatively reciprocable elements, two nests of C-springs carried by one of said elements and arranged in spaced relation to each other with spaces between the ends of said springs facing each other, each said nest comprising a plurality of independently acting C-springs arranged with their axes substantially parallel, a plunger carried by the other of said elements and having cam shaped ends, means for securing said plunger to said carrying element in position to pass between the ends of said C-springs of said nests upon the relative reciprocation of said elements and to successively forcibly engage the said ends of the springs of each nest.

2,534,249

PROCESS OF MAKING CORNSTARCH

Elton R. Darling, Muncie, Ill., and William E. C. Yelland, Washington, D. C., assignors to Lauhoff Grain Company, Danville, Ill., a corporation of Illinois

No Drawing. Application April 14, 1949, Serial No. 87,562
15 Claims. (Cl. 127—67)

1. Process of liberating starch from a comminuted degerminated by-product from the dry-milling of corn which comprises treating such a product in admixture with an amount of bran exceeding the normal bran content of said corn with a dilute solution of an alkaline-reacting material to produce a slurry having an initial hydrogen-ion concentration of about pH 8.0 and gradually increased to about 11.5 to 12.0, agitating said slurry at about normal room temperature for a period of at least several hours, and then physically separating the undissolved solids from said slurry, re-slurrying them in water, and screening said secondary slurry to separate bran from the starch granules, and recovering the latter.

2,534,250

PROCESS OF ISOLATING QUERCITRIN

Floyd De Eds, San Francisco, and Albert N. Booth, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 14, 1949, Serial No. 121,442
5 Claims. (Cl. 260—210)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

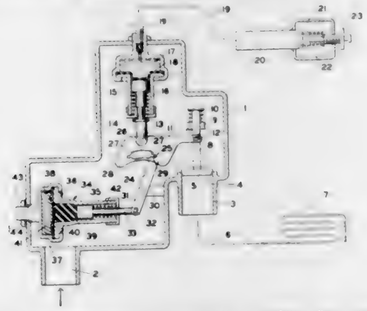
1. A process of isolating quercitrin from source materials containing the same, comprising extracting the source material, at about room temperature, with an aqueous lower alkanol having a concentration from about 5% to about 50%, by volume, of alkanol, separating the undissolved material, and extracting it with hot acetone to obtain an acetone extract containing quercitrin.

2,534,251

AUTOMATIC VALVE

Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application October 23, 1946, Serial No. 705,042
9 Claims. (Cl. 236—1)



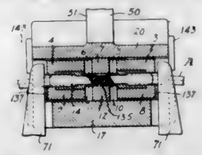
3. A temperature responsive valve for regulating the flow of heating and of cooling medium, comprising a valve casing having an inlet and an outlet port, a valve member cooperable with said port, a lever operable to move said valve member, a power element responsive to temperature external of said casing and having a thrust member pivoted to said lever, an arm pivotally supported in said casing and movable into pivotal supporting engagement with said lever on opposite sides of the pivotal engagement of said thrust member and said lever, and means responsive to change of temperature of the fluid in said casing and operable to move said arm from one side to the other of said pivotal engagement thereby to reverse the movement of said valve member by one direction movement of said power element.

2,534,252

TUBE SPLICER

Max Engler, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application August 12, 1947, Serial No. 768,215
10 Claims. (Cl. 154—9)



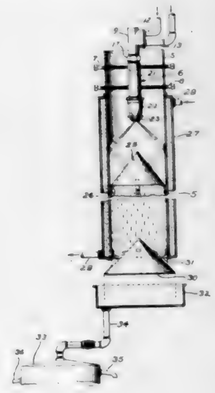
3. A tube splicer comprising platens mounted for movement toward and away from one another for clamping a tube therebetween, a pair of tube gripping bars mounted on one of the platens for movement toward and away from one another, said bars having aligned thin flanges directed toward one another, a gap covering member disposed against the flanges of the bars, and serrations along the edges of the flanges providing opposed pockets directed toward one another and lying along the gap covering member, and means for moving the bars toward and away from one another.

2,534,253

REFINING APPARATUS

Ralph H. Fash, Fort Worth, Tex., assignor, by mesne assignments, to Anderson, Clayton & Co., Houston, Tex., a corporation of Delaware

Original application February 27, 1942, Serial No. 432,719. Divided and this application December 28, 1943, Serial No. 515,951
5 Claims. (Cl. 259—4)



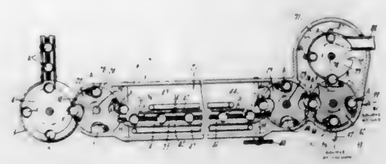
1. Apparatus for refining glyceride oils comprising an upright tubular member, means for delivering the oil and an alkaline refining agent in disintegrated condition against the interior surface of said member so that mixture of the oil and agent will occur as they flow down said surface, and means for heating said surface so that as the mixture flows down the same the emulsion which forms will be broken.

2,534,254

METHOD OF PACKING FLUID SUBSTANCES IN CANS

John Felber, Hillside, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 24, 1946, Serial No. 705,419
3 Claims. (Cl. 222—116)



1. The method of packing fluid substances in cans adapted to be rotated while being closed, comprising filling the can with its fluid contents, exposing the filled open can to a chilling temperature to congeal the exposed surface of the can contents and thereby hold the contents against surging under centrifugal force, and sealing a cover onto the filled can while rapidly rotating the can with its fluid contents so held.

2,534,255
HYDROXY POLYESTERS
Edward M. Filachione, Philadelphia, Pa., Martin L. Fein, Riverside, N. J., and Charles H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application August 22, 1947, Serial No. 770,179
15 Claims. (Cl. 260—484)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process comprising heating an aliphatic hydroxy carboxylic acid ester of the general formula

HO—CH(R)COOR′

wherein R is a member selected from the group consisting of hydrogen and a lower alkyl group and R′ represents a lower alkyl group, in the presence of an esterification catalyst and with simultaneous and continuous removal of the alcohol formed, thereby to produce a hydroxy polyester of the general formula

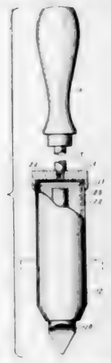
HO—[CH(R)COO]$_n$CH(R)COOR′

wherein R and R′ have the same significance as above and n represents a small integer larger than 1, said hydroxy polyester having a saponification equivalent not substantially less than 78.6.

2,534,256
TRAILER UNIT
William Fischer, United States Navy
Application August 3, 1945, Serial No. 608,799
10 Claims. (Cl. 280—80)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

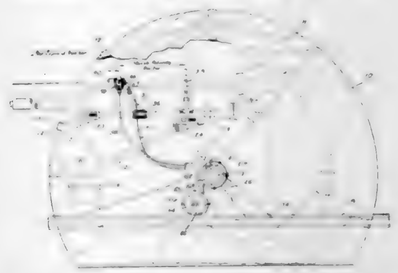
1. Mobile means for attachment to a support, said means comprising a pair of hollow bearing members adapted to be secured to the opposite sides of the support, a pair of shafts adapted to be journaled in one of said hollow bearing members for free rotation about its longitudinal axis, means for rigidly fixing the adjacent ends of said shafts together for rotation as a unit, a crank fixed to and extending laterally from the opposite end of each shaft, said cranks being diametrally opposite, an axle fixed to and extending laterally from each crank arm and wheels journaled on each axle, a second pair of shafts adapted to be received in the other of said hollow bearing members with means for joining them together end to end, and wheels journaled at the outer ends of said second pair of shafts.

2,534,257
SOLDERING IRON
Algernon F. Flournoy, Shreveport, La., assignor, by decree of distribution, to Margaret Thurston Flournoy
Application January 23, 1947, Serial No. 723,740
4 Claims. (Cl. 113—105)



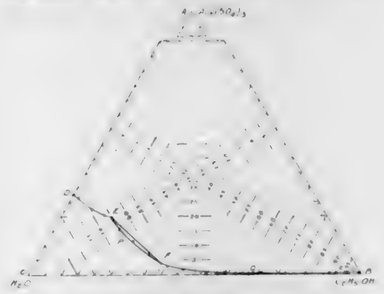
1. A soldering iron adapted to be heated over a flame or the like comprising a hollow body portion defining an enclosed chamber, substantially filled with a mass of fusible substance having a high latent heat of fusion value; a heating element attached to one end of said hollow body portion and a handle attached to the other end of said hollow body portion, said heating element including a nose extending outwardly from said hollow body and a metallic heat conductor extending into said hollow body through said fusible substance substantially the full length of and lying on the longitudinal axis of said hollow body portion.

2,534,258
GUN SIGHT
Daniel V. Gallery, Jr., United States Navy
Application March 31, 1941, Serial No. 386,090
1 Claim. (Cl. 33—49)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In combination, a gun turret of the free gun type, a trunnion support therefor about which the turret is movable in elevation, a roller path having a stationary portion upon which the turret is movable in train, a compensating gun sight adapted to be mounted to a machine gun mounted in said turret, including a sighting element having a laterally offset arm, a rotatable spindle, means for securing said arm to said rotatable spindle with said sighting element laterally offset from the axis of rotation thereof, and with said arm parallel to the plane of the roller path, a flexible shaft secured to said spindle and having a driven engagement with the stationary portion of said roller path, whereby the movement of the gun in azimuth about said roller path will be transmitted to the spindle and arm, and means for maintaining the axis of rotation of said spindle perpendicular to the plane of the roller path as the turret is elevated about the axis of the trunnions, said last named means comprising a rotatable support for the assembly comprising said spindle, arm, and sighting element, whereby the assembly may be rotated about an axis normal to the axis of said spindle, and means for rotating said support and said assembly about said axis comprising a flexible shaft having a driving engagement with said trunnions whereby the assembly will be rotated as the turret is moved in elevation.

2,534,259
RECOVERY OF ALCOHOL FROM A TERNARY SOLUTION
Edwin A. Gee, Washington, D. C., and John Vanden Bossche, Hyattsville, Md., assignors to the United States of America as represented by the Secretary of the Interior
Application December 14, 1945, Serial No. 635,116
11 Claims. (Cl. 260—643)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

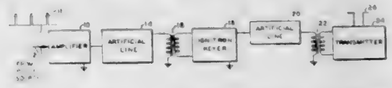


1. In a process for the recovery of a water-soluble alcohol from admixture with aluminum sulfate and water, the steps which comprise adjusting the composition of such a mixture to proportions permitting formation of a two-phase liquid-liquid system, then bringing the mixture to a temperature at which formation of said two-phase system takes place, and separating the alcohol-rich phase from the alcohol-poor phase.

2,534,260
DIGITALIS EXTRACTION
Ole Gisvold, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application June 23, 1949, Serial No. 100,959
8 Claims. (Cl. 260—210.5)

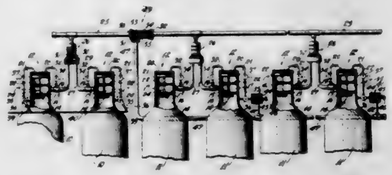
1. The process of preparing digitalis glycosides which comprises comminuting plant material containing digitalis and selected from the group consisting of fresh, moist plant material and such material preserved by quick-freezing until at least most of the plant cells containing the digitalis glycosides are ruptured, extracting the disintegrated plant material with water to produce a preliminary aqueous extract, heating the preliminary extract to about 60° C. to coagulate the chlorophyll and other undesired constituents, separating insoluble material from the preliminary extract to produce a light colored aqueous extract substantially free from chlorophyll, extracting the aqueous extract with a water immiscible low aliphatic ketone solvent for the digitalis glycosides and separating the digitalis glycosides from the ketone solvent.

2,534,261
LINE PULSE MODULATOR
John E. Gorham, Spring Lake, and Walter T. Silver, Belmar, N. J., assignors to the United States of America as represented by the Secretary of War
Application July 6, 1944, Serial No. 543,742
16 Claims. (Cl. 250—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A keyer for a radio transmitter including a series circuit of a source of potential, an impedance, an artificial line, and means interconnecting said artificial line to said transmitter, said series circuit comprising a resonant network, and a gas-discharge tube path shunting said artificial line and said means, said tube path periodically discharging said artificial line for generating keying pulses through said means for said transmitter.

2,534,262
FIRE EXTINGUISHING SYSTEM
Henry E. Heigis, Nutley, N. J., and Carl W. Frese, New York, N. Y., assignors to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application May 5, 1947, Serial No. 745,924
12 Claims. (Cl. 62—1)

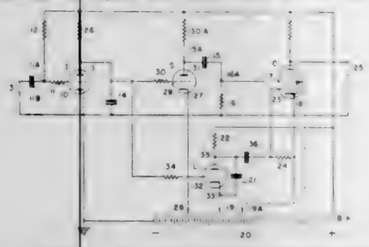


8. In combination, a receptacle containing a fluid under pressure, main valve means for retaining the fluid in said receptacle, delivery means into which the fluid from said receptacle is delivered when it is released, fluid actuated means for operating said main valve means to release the fluid from said receptacle, a direct fluid flow connection between said operating means and said receptacle, pilot valve means in said fluid flow connection, fluid pressure operated means associated with said pilot valve means for actuating said pilot valve means, conduit means for said pilot valve actuating means adapted to transmit an operating force for the operation of said pilot valve actuating means, a receptacle containing fluid under pressure in operative connection with said conduit means and said delivery means, and check valve means in said delivery means for preventing the fluid released from said first receptacle into said delivery means from flowing into said conduit means.

2,534,263
METHOD OF FIRMING FRUIT AND VEGETABLE SLICES
Claude H. Hills, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 18, 1947, Serial No. 762,013
11 Claims. (Cl. 99—103)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process comprising contacting a pectin-containing fruit or vegetable slice with an aqueous solution containing about from .4 to 5.8 P. E. U. of active pectase per 1000 cc. of the solution, whereby the firmness of said slice is increased, and then preserving the firmed slice.

2,534,264
PULSE WIDTH DISCRIMINATOR
Conrad H. Hoeppner, Washington, D. C.
Application August 3, 1945, Serial No. 608,804
11 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

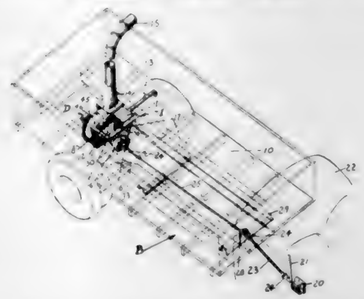


2. A method of pulse duration discrimination comprising, producing from incoming pulses pulses of continually increasing positive amplitude of the same duration as said incoming pulses, producing negative pulses from only those of said first produced pulses exceeding a predetermined amplitude, and differentiating last said produced pulses so as to produce from the trailing edges thereof output pulses of positive polarity.

2,534,265
FREE AIR TEMPERATURE INDICATOR
Ulysses G. Hoffman, Dayton, Ohio
Application October 7, 1947, Serial No. 778,449
1 Claim. (Cl. 73—339)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

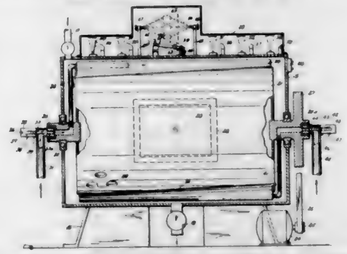
In a temperature measuring instrument of the character described, a casing, a pair of spaced apart operating movements of the ratio meter type in said casing, pivoting means for said movements symmetrically positioned in a horizontal plane which is located intermediate the center and the bottom of said casing, a dial on said casing covering the operating movements, said dial having openings through which said pivoting means extend, a pointer carried by each said pivoting means and overlying said dial, said pointers, in their home position lying substantially in said horizontal plane, the right pointer pointing left and the left pointer pointing right, a shield overlying said pointers but only when they are in the home position, an arcuate temperature scale, the arc of said scale being drawn from the pivotal point of the left movement and extending from a zero position at the right-hand side of the dial upward and to the left, a second arcuate temperature scale drawn from the pivotal point of the right movement and extending from a zero position at the left-hand side of the dial upward and to the right, the pivoting means of the left operating movement being rotatable anticlockwise from its home position by a rise in temperature above the zero position, thereby swinging the left pointer from in back of the shield and along the right scale when the temperature is above zero, and the pivoting means of the right operating movement being rotatable clockwise from its home position by a drop in temperature below the zero position thereby swinging the right pointer from in back of the shield and along the left scale when the temperature is below zero.

2,534,266
POWER GRAIN SCOOP UNLOADER FOR VEHICLES
John R. Howe, Denver, Colo.
Application January 14, 1946, Serial No. 641,036
5 Claims. (Cl. 214—83.28)



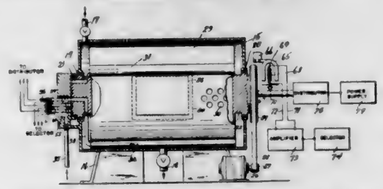
1. A device for unloading grain from a body mounted on a truck or the like, comprising a power take-off adapted to be connected to the truck transmission; an operating lever for optionally causing said power take-off to be operative; a scoop unit adapted to be installed above the differential housing of said truck and including an intake section and a discharge section; a drive shaft from said power take-off to said unit; a rotor installed in said discharge section and having twelve equally spaced and radially extending blades; a standpipe leading from said rotor discharge and adapted to receive a stream of air carrying grain through a hole provided for such purpose in the floor of said truck body; a gate for controlling the flow of grain through an intake hole in the floor of said truck body to said intake section, the bottom of said intake section being slanted to accommodate said differential housing and one wall of said intake section slanting inwardly; a feed opening leading from said intake section to said discharge section; a pair of air intake holes in said slanting wall and disposed in a plane substantially entirely above the level of said feed opening; a gear box attached to the front end of said intake section; and a helical gear and pinion in said gear box for rotating said rotor at an increased speed.

2,534,267
WASHING MACHINE CYLINDER BALANCING APPARATUS
Leo M. Kahn, Island Park, N. Y.
Application October 3, 1945, Serial No. 620,038
25 Claims. (Cl. 74—573)



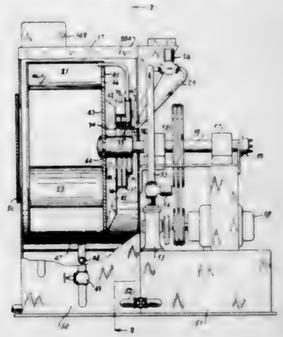
23. A laundry machine comprising a horizontal housing, a perforated cylinder rotatably mounted in said housing, rigid bearing means for effecting said rotation, vibration responsive means associated with the housing and means on said rotatable cylinder for balancing unsymmetrical centrifugal forces generated during rotation of said cylinder, said balancing means comprising liquid receiving portions on said cylinder for the reception of liquid to create a counter-acting weight for balancing said unsymmetrical centrifugal forces, means controlled by the vibration responsive means to introduce said liquid to said liquid receiving portions during the rotation of said cylinder, and means operative during rotation of said cylinder for discharging liquid from said portions in preparation for a succeeding operation.

2,534,268
WASHING MACHINE CYLINDER BALANCING APPARATUS
Leo M. Kahn and Edwin Ellner, New York, N. Y.; said Ellner assignor to said Kahn
Application May 31, 1946, Serial No. 673,680
24 Claims. (Cl. 74—573)



1. Balancing apparatus for a rotating cylinder for housing wet articles from which liquid is to be centrifugally extracted, comprising a series of counterweight receiving elements located at spaced peripheral portions of said cylinder, means to feed liquid counterweight material to said receiving elements, inlet controls for blocking said material from said receiving elements, control operating means for selectively unblocking at least one of said receiving elements so as to introduce said counterweight material thereto, a vibration responsive device for producing a series of electrical response pursuant to vibrations of said rotating cylinder, means synchronized with its rotation for successively establishing the instantaneous angular position of said spaced portions of said cylinder, and means jointly controlled by said series of electrical responses and by said synchronized means for actuating said control operating means.

2,534,269
AUTOMATIC BALANCING SYSTEM FOR CLEANING MACHINE CYLINDERS
Leo M. Kahn and Edwin Ellner, New York, N. Y.; said Ellner assignor to said Kahn
Application May 26, 1948, Serial No. 29,376
43 Claims. (Cl. 74—573)

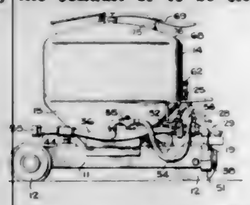


1. Balancing apparatus for a rotatable hollow cylinder of a machine for treating discrete articles comprising a plurality of weight receiving elements arranged to house varying amounts of weight counterbalance material, said weight receiving elements being angularly disposed around said cylinder so as to differentially affect the balance thereof pursuant to the varying amounts of said material housed therein, inlet control means including an electrical circuit for selectively varying the amounts of said material housed in said receiving elements, a vibration responsive device arranged to provide an electrical voltage pursuant to the passage of an overweighted portion of the rotating cylinder, reference means continuously operative during the rotation of the cylinder for registering the momentary angular disposition of each weight receiving element, said inlet control means being controlled jointly by said vibration responsive device electrical voltage and the action of said reference means so as to vary the amounts of said material in one or more of said weight receiving elements depending upon the site of said overweighted portion, and a plurality of feed rings rotating with the cylinder and each associated with one receiving element, said feed rings being arranged to receive liquid counterbalance material from a source thereof and feed it to an associated element, said feed rings being formed with continuous annular openings so as to receive injected material during rotation thereof.

2,534,270
APPARATUS FOR TRANSPORTING MATERIALS
Maxwell F. Kemper, Los Angeles, Calif.
Application January 13, 1947, Serial No. 721,717
17 Claims. (Cl. 259—147)

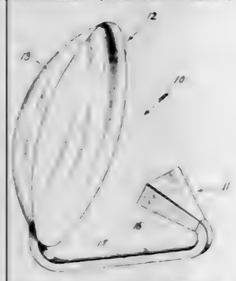
1. Materials handling apparatus comprising a materials container having a discharge opening therein, a discharge conduit communicating with

said opening through which materials are discharged from said container, closure means for the discharge end of said conduit, optionally operable to extend transversely across said conduit for closing the conduit or to be clear of said



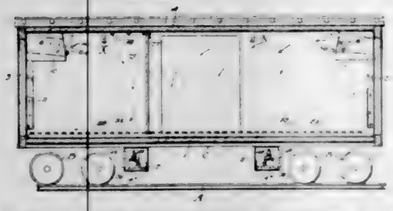
conduit, and fluid inlet means carried by said closure means for the admission of agitating fluid into said conduit and through a body of materials in said container when said closure means is in closed position.

2,534,271
ANTENNA SYSTEM
Orwald E. Kienow, South Acton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application October 17, 1947, Serial No. 780,448
6 Claims. (Cl. 250—33.65)



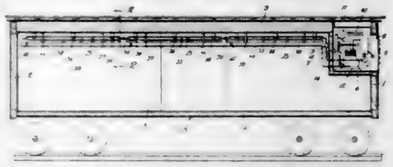
1. A microwave antenna system comprising: an off-center section of a paraboloid; and a directive radiating element disposed substantially at the focal point of said paraboloid; the line corresponding to the direction of maximum response of said radiating element intersecting the surface of said section at a point equally to illuminate the edges of said section.

2,534,272
MULTITEMPERATURE REFRIGERATOR CAR
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1947, Serial No. 793,202
3 Claims. (Cl. 62—117)



1. In a multi-temperature container, a heat insulating outer structure adapted for the transportation of chilled or frozen goods, a cooling system including separate units, each unit including a housing having air inlet and outlet apertures in communication with the storage space within the container, said housings being located at separated points, cooling members in each said housing, and means for cycling a volatile refrigerant therethrough, said cooling members being positioned for contact with air flowing through the inlets and outlets of said housings, means for moving air through said housings and across the surfaces of said cooling elements, and a partition in said container positioned to divide the container into a plurality of separate and widely unequal spaces, said units being of generally the same capacity, one of such units being in communication with each such space.

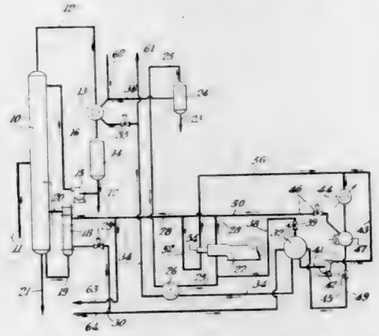
2,534,273
SELF-CONTAINED REFRIGERATING FREIGHT CAR UNIT
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Application June 28, 1948, Serial No. 35,545
4 Claims. (Cl. 62—115)



1. In transportable refrigerating means such as storage cars and the like, an insulating structure including walls surrounding and defining a storage zone to be refrigerated, an evaporator structure positioned in said storage zone and including one or more plates each having walls of heat-conductive material surrounding and sealing an enclosed space, each said plate space being partially filled with eutectic, an evaporator coil in each such plate space and in heat exchange relationship with said eutectic, said plates having faces exposed to the interior of said storage zone throughout an area sufficiently great to permit a prolonged refrigerating effect during and due to the thawing of the eutectic therein, a compressor-condenser unit located exteriorly of said storage zone, a Diesel engine therefor, pipes extending between the compressor-condenser unit and the evaporator coil, the eutectic in such plate or plates being in heat exchange relation with the interior of the storage zone through the plate walls, and means for initiating actuation of the Diesel engine after a predetermined time lapse during which the motor has not been in actuation, said time lapse being in predetermined relation to the melting period of the eutectic within the plate or plates, said plate or plates extending generally from end to end and generally throughout the top of the storage zone.

2,534,274
FRACTIONAL DISTILLATION
Ludwig Kniel, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application January 28, 1947, Serial No. 724,857
10 Claims. (Cl. 62—2)

1. In the operation of a fractionating column wherein different temperatures are maintained in separated zones within said column by removing heat from an overhead fraction and adding heat to a liquid in the bottom of the column, the steps of condensing substantially all of a stream of a gaseous refrigerant by indirect heat exchange with the liquid in the bottom of the column, vaporizing said condensed refrigerant in indirect heat exchange with the overhead fraction; compressing said vaporized refrigerant; returning said compressed refrigerant to said first heat exchange step; and vaporizing a part of said



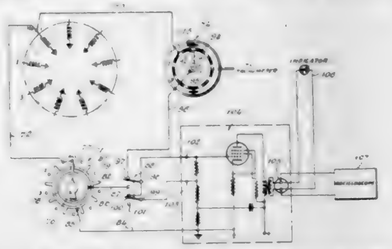
condensed refrigerant in a heat exchange zone independent of said fractionating column and external of the overhead vaporizer when the heat given up by the condensing refrigerant at the bottom of the column is less than that required by the liquid in the bottom of the column and returning said vapors to the compressed refrigerant passing to heat exchange with the bottoms liquid.

2,534,275
METHOD OF REFINING RUTIN
Charles F. Krewson, Joseph Naghski, and William L. Porter, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 18, 1947, Serial No. 762,012
7 Claims. (Cl. 260—210)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. A process of refining rutin contaminated by iron-impurities which comprises dissolving rutin in hot water, acidifying the solution to a pH in the range of 2.5 to 2.9, and cooling the solution to crystallize the rutin.

2,534,276
VIBRATION PICKUP DEVICE AND SYSTEM
Joseph H. Lancor, Jr., East Williston, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application January 10, 1944, Serial No. 517,657
1 Claim. (Cl. 73—35)

An engine analyzer for a cyclically operable engine having a vibration pick-up device mounted on each cylinder to generate electrical signals proportional to the frequency and amplitude of vibrations occurring in the cylinder on which it is mounted, said analyzer comprising means to transmit signals from each pick-up device to a corresponding contact on a timing device, said timing device including means rotated in synchronism with the engine to engage said contacts in firing order during the same portion of each cylinder cycle, means to adjust the contacts relative to the rotating means whereby such engagement is made during a desired portion of the combustion period of each cylinder cycle, means to transmit the signals received by the rotating means, additional means to transmit signals from each pick-up device to a corresponding contact on a selector switch, said selector switch including



means settable to select the signal from any desired cylinder and to suppress the signals received from all other cylinders, means to transmit the selected signal, indicating means operable by signals received from the selector switch or the timing device, and switching means to connect the indicating means with the output of the selector switch or the timing device.

2,534,277
CRYSTALLIZATION POINT DEPRESSANTS FOR DDT HYDROCARBON SOLUTIONS AND FUNGICIDAL INSECTICIDES OBTAINED THEREBY
Leo Liberthson, Bronx, N. Y., and Jacob Faust, Belleville, N. J., assignors to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application February 19, 1946, Serial No. 648,821
9 Claims. (Cl. 167—30)

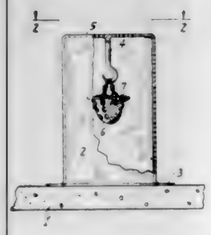
6. An insecticidal composition which comprises a petroleum hydrocarbon solution of paradichlordiphenyl trichlorethane having normally a relatively high crystallization point due to the paradichlordiphenyl trichlorethane dissolved therein, a cuprammoniacal petroleum mahogany sulfonate containing occluded oil and at least 5%, by dry weight of said sulfonate, of a phthalic acid aliphatic alcohol ester, said sulfonate and said ester being present in the aggregate to at least 50% by weight of the paradichlordiphenyl trichlorethane in solution, said ester being present in amount up to its solubility limit in said petroleum hydrocarbon.

2,534,278
CRYSTALLIZATION POINT DEPRESSANTS FOR PETROLEUM HYDROCARBON SOLUTIONS OF PARADICHLORDIPHENYL TRICHLOROETHANE
Leo Liberthson, New York, N. Y., and Jacob Faust, Belleville, N. J., assignors to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application February 19, 1946, Serial No. 648,822
9 Claims. (Cl. 167—30)

6. An insecticidal composition which comprises a petroleum hydrocarbon solution of paradichlordiphenyl trichlorethane having normally a relatively high crystallization point due to the paradichlordiphenyl trichlorethane dissolved therein, at least one member selected from the group consisting of substantially oil-soluble alkali and alkaline earth metal petroleum sulfonates containing occluded oil, and at least 5% by dry weight of said sulfonate of a phthalic acid ali-

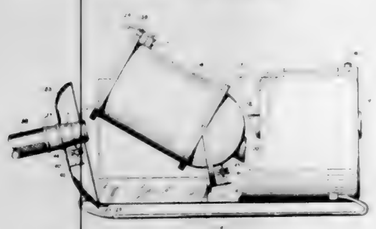
phatic alcohol ester, said sulfonate and said ester being present in the aggregate to at least 50% by weight of the paradichlordiphenyl trichlorethane in solution, said ester being present in amount up to its solubility limit in said petroleum hydrocarbon.

2,534,279
VAPOR DETECTING DEVICE FOR DETERMINING PAINTABILITY OF MASONRY SURFACES
Leo Liberthson, New York, N. Y., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
Application July 26, 1947, Serial No. 763,981
2 Claims. (Cl. 73—73)



1. Device for determining paintability of masonry surface which comprises a substantially transparent beaker having a contact-seal lip defining a ground substantially flat sealing surface for self-adhering said beaker to and with its open end against a masonry surface in sealing relation thereto and means carried by and inside said beaker for securing a moisture indicator of the color change indicator type.

2,534,280
VACUUM CLEANER
Gustaf E. Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application July 2, 1946, Serial No. 681,074
7 Claims. (Cl. 183—37)



1. In a vacuum cleaner, a base portion, a motor fan unit supported in fixed position on said base portion, a dust receptacle compartment permanently and movably mounted on said base portion adjacent to said motor fan unit, the end of said compartment remote from said motor fan unit being open, a cover for said open end permanently and movably connected to said base portion, said compartment and said cover being movable relative to said base portion and to each other from a position in which said open end is closed by said cover to a position in which said cover is spaced from said open end sufficiently for the insertion and removal of a dust receptacle therethrough, and means providing for flow of air between said compartment and said motor fan unit.

2,534,281
PRESSER FOOT FOR SEWING MACHINES
Jose L. Luna, Houston, Tex.
Application February 18, 1948, Serial No. 9,312
1 Claim. (Cl. 112—235)

A presser foot for a sewing machine, comprising an attaching portion and a foot portion, an aperture in said foot portion to receive the needle of a sewing machine, an angularly directed aperture in the foot portion forwardly of said first aperture, an angularly directed slot whose longitudinal length is greater than the radius of the second aperture in the foot portion forwardly of said second aperture, a second angularly directed slot whose longitudinal length is greater than the length of the first slot in the foot portion forwardly of said first slot and said slots adapted to extend transversely of said foot portion, oppositely disposed shoulders on the opposite curved edges of the bottom surface of said foot portion providing a slot extending longitudinally of the foot portion, a second set of oppositely disposed shoulders inwardly of the said first shoulders and on a higher plane than said first shoulders providing a slot of less width than said first slot and said aperture and said first slot connected with the slots in the bottom surface of said foot portion.

2,534,282
ABRASIVE CARRIER FOR PROCESSING ARTICLES
Joseph Lupo, Mount Vernon, N. Y.
No Drawing. Application July 24, 1948, Serial No. 40,620
1 Claim. (Cl. 51—164.5)

An abrasive carrier for processing articles including corn cob granules expanded by water and containing water in the cells thereof, a powdered abrasive, and a coating of sodium silicate bonding the abrasive to the granules and forming a covering over the cells of the granules.

2,534,283
ACID INITIATION OF AMINO ACID N-CARBOANHYDRIDE CONDENSATION
Robert Neal MacDonald, New Castle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1947, Serial No. 778,032
7 Claims. (Cl. 260—78)

1. In a process for the preparation of linear polymers of amino acids of radical length of three to four wherein the N-carboanhydride of said acid is polymerized, with carbon dioxide evolution, the improvement which comprises bringing said carboanhydride in contact with, as an initiator of the condensation polymerization, from 1.2 to 0.00075 mole per cent, based on the N-carboanhydride, of an acid of ionization constant in the range from 2.25×10^{-3} to 6×10^{-7}.

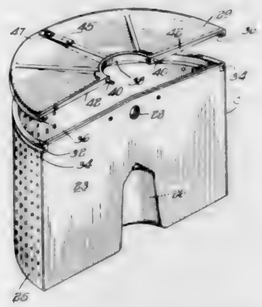
2,534,284
COAGULANT AND METHOD OF CLARIFYING TURBID WATER THEREWITH
Rawland R. Magill, Chicago, Ill.
No Drawing. Application August 13, 1947, Serial No. 768,494
6 Claims. (Cl. 210—23)

1. A coagulant for the treatment of turbid water to clarify the same comprising the water-soluble, substantially dry to the touch product formed by intimately mixing, successively, in the presence of water, limestone, an alkali metal hydroxide and an alkali metal carbonate, the solid ingredients being in finely divided form and being mixed in proportions of about 50 to 80% by weight of limestone with the other solid ingredients constituting the remainder and in proportions to provide an excess of said hydroxide by weight with respect to the carbonate and the water being approximately 2 to 10% by weight of the amount of limestone.

2,534,285
PRODUCTION OF PYRIDINE DERIVATIVES
John E. Mahan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application March 7, 1946, Serial No. 652,781
1 Claim. (Cl. 260—290)

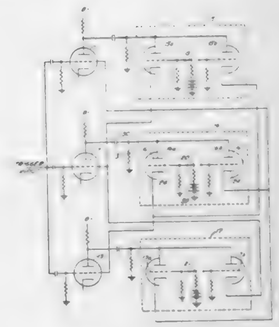
A process for the production of 2-vinylpyridine which comprises contacting monomethylol-2-picoline in vapor phase with an aluminum oxide dehydration catalyst at a pressure below 500 mm. Hg and at a temperature within the range of 500 to 650° F. for a contact time within the range of one-half to five seconds, and recovering resulting 2-vinylpyridine.

2,534,286
CENTRIFUGAL EXTRACTOR COVER
Alfonse G. Maitzen, Park Ridge, Ill.; Winonah Maitzen, Richard Maitzen, and Jack Maag, executors of Alfonse G. Maitzen, deceased, assignors to Winonah Maitzen, Richard Maitzen, and Jack Maag, as trustees
Application May 1, 1948, Serial No. 24,619
7 Claims. (Cl. 210—76)



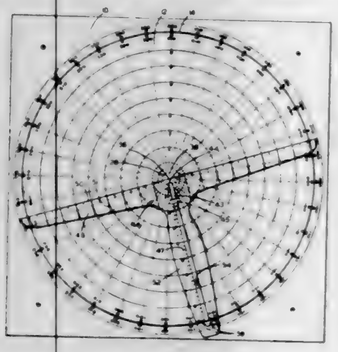
6. The combination in a centrifugal extractor, of a cylindrical open-top tank having a vertical axis, a cylindrical open-top foraminous basket disposed concentrically within said tank and mounted for rotation on a vertical axis, a pair of semi-cylindrical open-top containers disposed within said basket, said containers being adapted to be lifted out of said basket for loading and unloading, each of said containers being provided at the upper edge of its circumferential wall with a semi-circular rim located at the inner face of said wall and provided with an external peripheral groove having the outer edge of its upper wall inset and forming an outwardly projecting ledge, a pair of semi-circular covers, one for each container, said covers each having an inwardly and radially extending lip coincident with its semi-circular peripheral edge and adapted to underlie the outwardly projecting ledge of the semi-circular rim portion of its associated container, said lip and ledge being effective, conjointly, to hold the cover on the container against vertical displacement, each cover being attachable to and detachable from its container by relative horizontal movement, and the peripheral edge of the cover being substantially flush with the outer face of the circumferential wall of the container, said covers having straight edges confronting the inner faces of the planar walls of the containers and arranged at a slight angle to said planar walls and terminating short of the center of the extractor, and said covers being provided at said center of the extractor with recesses forming an opening to permit direct engagement of a hoisting hook with said planar walls.

2,534,287
ELECTRONIC CONTROL APPARATUS
Lynn W. Marsh, Jr., United States Army, Arlington County, Va.
Application February 19, 1946, Serial No. 648,809
7 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A ring circuit comprising a plurality of ring stages each having a conducting condition and a nonconducting condition and means for controlling the order of progression thereof, including means for supplying triggering impulses for changing the condition of any ring stage when its condition is unlike that of the remaining ring stages, a control stage in the nature of a double triode, means for coupling said control stage to a ring stage for varying the conductivity of the former in accordance with variations in the conductivity of said ring stage, and means for coupling the output of one half of said control stage to a ring stage preceding and the output of the other half of the control stage to a ring stage succeeding the ring stage associated with the control stage.

2,534,288
MANEUVERING BOARD ATTACHMENT
Charles W. Merriam, Jr., Taunton, Mass.
Application October 16, 1945, Serial No. 622,664
3 Claims. (Cl. 33—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

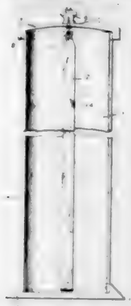


1. An attachment for a maneuvering board comprising, a T square formed of uniformly flat transparent material having an elongated slot lengthwise of its leg and being formed with a straightedge on its crosshead, said slot having a pair of oppositely disposed enlargements therein, a stud adapted to be rotatably mounted centrally of said maneuvering board, an arm extending radially of said board and horizontally disposed on said stud, said arm being of a width that is just sufficient to fit with sliding clearance within said slot, a transversely extending lug on said arm in nonrotatable relation therewith of a size and shape to receive the enlarged portion of said slot, whereby the square may be mounted on said arm by aligning the enlarged portion of said slot with said lug and whereby the square may thereafter be removably retained on said arm by sliding the square so that said lug engages the upper surfaces of those portions of the square lying adjacent to the opposite sides of said slot.

2,534,289
WAVE GUIDE IMPEDANCE MATCHING SECTION
Walter W. Mieher, Mineola, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Original application October 17, 1942, Serial No. 462,434. Divided and this application May 28, 1945, Serial No. 596,286
12 Claims. (Cl. 178—44)

2. High frequency apparatus comprising a wave guide having two sections, each of said sections having a different dielectric constant, and means for matching the impedances of said sections, said matching means including a plurality of cascade-connected intermediate sections interposed between said two sections, said intermediate sections having different dielectric constants, said dielectric constants providing said sections with characteristic impedances related in accordance with binomial coefficients.

2,534,290
TOILET PAPER CONTAINER
Samuel Moskowitz, Bronx, N. Y.
Application March 10, 1947, Serial No. 733,594
2 Claims. (Cl. 206—56)



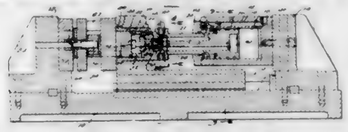
1. A container for stacked rolls of toilet tissues and the like including a cover, an endless tape in the container at the sides and bottom adapted to loosely encircle the stack of tissue, and means connecting the upper end of the tape to the cover for raising the stacked rolls of tissues simultaneously with the raising of the cover from the container.

2,534,291
PROCESS FOR FORMING THERMOPLASTIC SHEETING
William R. Moss, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 26, 1948, Serial No. 11,202
7 Claims. (Cl. 18—55)

1. The process of continuously forming a transparent thermoplastic sheet containing substantially no bubbles which comprises continuously adding a colloidizable mixture of material to a pair of differentially heated rotating milling rolls and colloidizing the mixture thereon, forming a relatively large diameter bead of colloidized plastic at the convergence of the rolls adjacent a section where the mixture is added and also conducting the colloidizing at a second section thereof while maintaining a second smaller diameter bead of plastic at the convergence of the rolls in said second section; continuously removing a strip of the colloidized material from that on the second section; maintaining the temperature of the strip approximately that of the hotter milling roll, hot calendering the material in the strip between adjacent coacting pairs of calender rolls to form a sheet, maintaining a small uniformly heated bead of material from the sheet at the nip of each pair of coacting calender rolls and cooling the sheet after it leaves the last coacting pair of calender rolls.

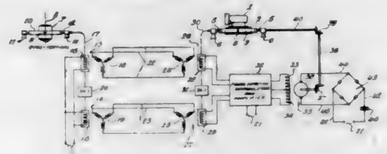
2,534,292
HYDRAULIC PUNCH AND STRIPPER
Otto Mueller, Dearborn, Mich.
Application January 18, 1947, Serial No. 722,935
27 Claims. (Cl. 164—95)

1. In a device for operating on a piece of work, a cylinder and piston one of which is anchored in fixed position, a second cylinder and piston, a pressure plate associated with said second cylinder and piston, a plunger in fluid communication with said first cylinder and in engagement with said second piston for clamping the work during the punching operation, and a punch carried by said first cylinder and piston



and advanced through the work thereby after the pressure plate engages and holds the work, said punch being retractable from the work by the operation of the second cylinder and piston while forcing the pressure plate toward the work when pressure is relieved from said first cylinder and piston.

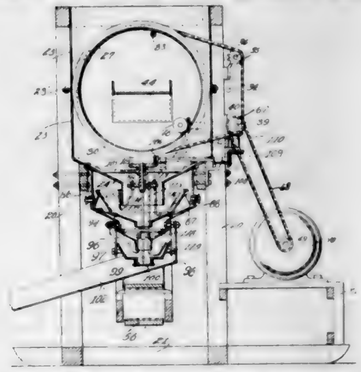
2,534,293
SERVOMOTOR AND SYSTEM HAVING IMPROVED TORQUE CHARACTERISTICS
George C. Newton, Jr., Cambridge, Mass., assignor to The Sperry Corporation, a corporation of Delaware
Application December 21, 1946, Serial No. 717,720
1 Claim. (Cl. 318—432)



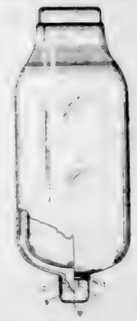
A servomotor system for providing a substantially constant torque over a range of operating speeds comprising a substantially constant alternating current source, a four-element full wave rectifier bridge having one corner directly connected to a first terminal of said source, a reactance connected between the opposite corner of said bridge and the second terminal of said source, a source of amplified unidirectional control voltage, and a direct current servomotor having its armature connected across the two remaining corners of said bridge and its field windings connected to said source of control voltage whereby the speed and direction of rotation of said motor may be controlled, the value of said reactance being high compared to the resistance of the motor armature and of such magnitude that the armature current will be substantially constant throughout a range of operating speeds of the motor.

2,534,294
METAL RECOVERING MACHINE
Eric J. Ohman, Anchorage, Territory of Alaska
Application May 14, 1946, Serial No. 669,644
1 Claim. (Cl. 209—465)

In a fine gold recovering machine concentrator, the combination which comprises an upper receiving hopper having a cylindrical wall with a conical shaped section at the lower end and with a cylindrical band depending from the lower part of the said conical shaped section, a lower hopper having a cylindrical wall carried by and extended downwardly from the said depending band of the upper hopper, an auxiliary hopper having a conical shaped wall with a horizontally disposed lower end and having a cylindrical neck depending from the center of the said lower end, a pan providing a closure removably secured to the lower end of the neck of the auxiliary hopper, a funnel shaped feed chute having a depending cylindrical wall positioned in the upper end of the upper hopper, a vertically disposed centrally positioned shaft extended upwardly through the said upper and lower hopper and feed chute and into the said auxiliary hopper, an agitating finger carried by the shaft, extended outwardly and upwardly and spaced from the inner surface of the wall of the said upper hopper, a U-shaped finger carried by the shaft and extended around the depending cylindrical wall of the feed chute, an agitating finger also carried by the shaft and positioned to travel around the inner surface of the cylindrical band of the upper hopper, and corresponding agitating elements also carried by the shaft and positioned to coact with the inner wall surface of the auxiliary hopper and outer and inner surfaces of the cylindrical wall of the lower hopper.



2,534,295
EXHAUST TIP PROTECTOR FOR VACUUM INSULATED VESSELS
Arthur H. Payson and Louis J. Darmstadt, Norwich, Conn., assignors to The American Thermos Bottle Company, Norwich, Conn., a corporation of Ohio
Application January 5, 1949, Serial No. 69,282
4 Claims. (Cl. 215—13)



1. A vacuum insulated vessel comprising spaced inner and outer walls, an exhaust portion protruding from the outer wall, said exhaust portion having a base part with a circumferen-

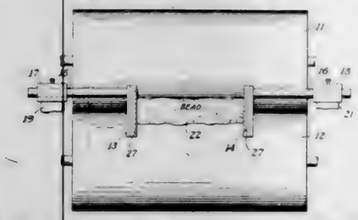
tially-extending groove and a tip beyind the base part, and a protector for the tip spaced from the tip and having an inwardly-extending portion engaging the groove to retain the protector in place on the base.

2,534,296

APPARATUS FOR CALENDERING THERMOPLASTIC SHEETS

Merle E. Pike, Kingsport, Tenn., and Everett W. Lane, Gates City, Va., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 30, 1947, Serial No. 794,582
3 Claims. (Cl. 18—2)



3. In apparatus for continuously calendering plastic compositions into continuous sheeting comprising a pair of heated, parallel-positioned, closely-spaced rolls, said rolls adapted to be rotated in opposite directions, a pair of horizontally adjustable plates positioned adjacent the bite of the rolls and having arcuate sections fitted closely to the adjacent peripheral surfaces of the rolls adapted to confine the plastic compositions about to be calendered between the plates along the horizontal axes of the rolls, heating means within the respective plates adapted to maintain the temperature of the plates at substantially the temperature of the rolls whereby defects in the sheeting due to cooling at the edges of the plastic composition being confined between the plates are prevented and insulating means associated with the plates and extending from the plates toward the rolls adapted to prevent localized heating of adjacent roll surfaces.

2,534,297

RESIN ACID NITRILES

Stearns T. Putnam, Roselle, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 8, 1949, Serial No. 120,424
7 Claims. (Cl. 260—100)

1. A stabilized rosin nitrile of the group consisting of dehydrogenated rosin nitrile and hydrogenated rosin nitrile.

4. The process of preparing a stabilized rosin nitrile which comprises reacting a stabilized rosin of the group consisting of dehydrogenated rosin and hydrogenated rosin in liquid phase with gaseous ammonia in the absence of a dehydration catalyst and continuously removing the water from the reaction as it is formed.

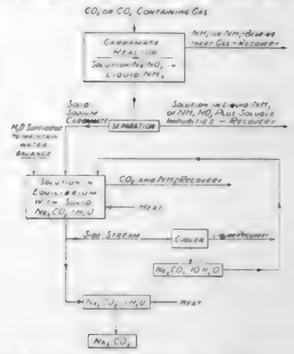
2,534,298

PRODUCTION OF SODIUM CARBONATE

Ludwig Rosenstein, New York, N. Y.

Application July 12, 1947, Serial No. 760,567
1 Claim. (Cl. 23—63)

A continuous method of preparing substantially pure anhydrous sodium carbonate which comprises continually introducing sodium carbamate and water into a saturated aqueous solution of sodium carbonate to effect hydrolysis of said sodium carbamate whereby sodium carbonate monohydrate is the only solid product of hydrolysis; maintaining said solution saturated with respect to said sodium carbonate monohydrate to maintain solid phase sodium carbonate monohydrate continually suspended in said solution, by so controlling the quantity of water introduced as to cause said solution to be continually in equilibrium with said solid phase sodium carbonate monohydrate; applying heat to said solution while said sodium carbamate and water are being introduced to maintain the solution above 32.0° C. to thereby effect direct one-step crystallization of substantially only solid sodium carbonate monohydrate from said saturated solution; continually removing crystallized sodium carbonate monohydrate from the solution; and converting said removed sodium carbonate monohydrate to anhydrous sodium carbonate by application of heat.

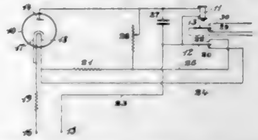


2,534,299

ELECTRONIC TIMER

Alfonso J. Ruiz, Corpus Christi, Tex., and Eugene J. Kupjack, United States Navy

Application July 9, 1945, Serial No. 604,002
6 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



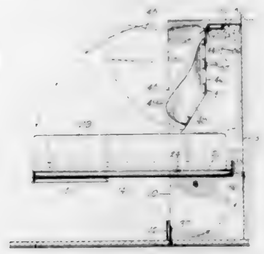
1. An electronic timer comprising a thermionic tube having an anode and a cathode with a heating filament, a relay connected to the anode and responsive to changes in the conductance of the tube, a two contact switch operated by the relay, each contact being included in a separate circuit including the filament, one circuit including a resistance, and a condenser connected in parallel with the relay, and the condenser and relay in parallel being connected in series with that one of the filament heating circuits closed by the corresponding switch contact, the said relay switch circuits alternately increasing and decreasing the conductance of the tube by respectively heating and cooling the cathode, and the condenser causing the operation of the relay to lag behind changes in the conductance of the tube.

2,534,300

BED-COUCH

William F. Schorn, Alexandria, Va.

Application October 26, 1945, Serial No. 624,928
3 Claims. (Cl. 5—136)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



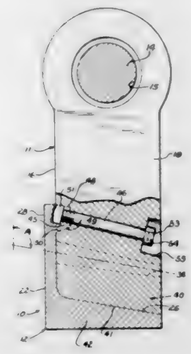
1. A foldable bed-couch comprising upright supports having a bed frame and a couch back pivotally supported thereby, means cooperating with said bed pivotal means providing a cantilever support for said bed, and means to adjust the angle of suspension of the couch back into cooperative relationship with said bed to provide a side therefor and into cooperative relationship with said bed to utilize a portion of said bed as a seat in conjunction with said couch back.

2,534,301

IMPACT HAMMER WITH ATTACHED WEAR MEMBER

Charles E. Sennholtz, Chicago, Ill.

Application July 29, 1948, Serial No. 41,243
5 Claims. (Cl. 241—197)



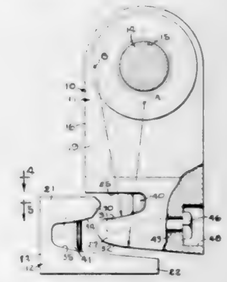
5. An impact hammer for rotary pulverizers comprising, in combination, a hammer arm adapted to be supported at one end, said arm having a leading edge and bottom and side surfaces adjacent thereto, each of said bottom and side surfaces being flared outwardly in a direction rearwardly of the leading edge, said side surfaces each being relieved by a groove formed therein which intersects said leading edge and which extends at an angle rearwardly and downwardly therefrom, a hammer tip of box-like construction having a massive impact face and having bottom and side walls extending rearwardly therefrom to mate with corresponding bottom and side surfaces of said arm, said side walls having formed therein opposed tongues adapted for registered engagement with the grooves in said hammer arm, an upward extension on the face portion of said tip having a transverse rearwardly extending tongue and a rearwardly opening pocket, said arm having formed in its leading edge a notch for the receipt of said rearwardly facing tongue, a bolt extending through said hammer arm toward the leading edge thereof, and means disposed in said pocket for threaded engagement with said bolt so that said tongues may be drawn inwardly and downwardly into said grooves.

2,534,302

HAMMER FOR IMPACT PULVERIZERS

Charles E. Sennholtz, Chicago, Ill.

Application September 3, 1949, Serial No. 114,003
9 Claims. (Cl. 241—197)



1. An impact hammer for rotary pulverizers comprising, in combination, a hammer arm adapted to be supported at one end and having a forwardly extending wedge-shaped tongue on the opposite end thereof, said tongue having upper and lower surfaces which are arcuate in profile, the centers of curvature of said surfaces being located in the direction of the supported end of said arm and being forwardly and rearwardly spaced from each other, a replaceable tip having an impact face and an end face, said tip also having a rearwardly opening recess therein for receiving the tongue on said arm, the surfaces defining said recess being shaped to correspond with the mating surfaces of the tongues on said arm, the inner surface of said face portion having a T slot therein for the reception of a nut, said opposite end portion of the arm having a forwardly extending bore in axial alinement with said T slot and a bolt extending through the bore for tightening engagement with said nut.

2,534,303

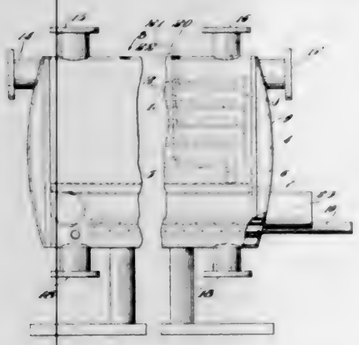
METHOD OF MAKING INTEGRATED CALCIUM SILICATE BODIES

Neo S. Serinis, Gloucester, N. J., assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio

Application January 16, 1947, Serial No. 722,333
1 Claim. (Cl. 25—155)

In the method of producing an integrated hydrous calcium silicate from a slurry comprising a mixture of finely divided materials containing reactive lime and reactive silica and water, the step of reacting the lime and silica of said mix-

ture to substantial completion in a closed system in an atmosphere substantially exclusively of



super-heated steam whereby drying of the mixture proceeds simultaneously with the reaction.

2,534,304

ESTERIFICATION WITH BORON FLUORIDE-HYDROXY POLYETHER COMPLEXES

George E. Serniuk, Roselle, and Byron M. Vanderbilt, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 2, 1948, Serial No. 382

5 Claims. (Cl. 260—497)

3. Process for preparing esters which comprises reacting an olefin with a carboxylic acid in the presence of a catalyst comprising a BF_3-hydroxy polyether complex, said hydroxy polyether being obtained by reacting a high molecular weight alcohol with ethylene oxide.

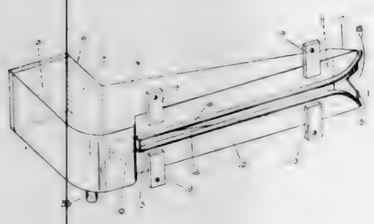
2,534,305

METHOD AND APPARATUS FOR SEALING CONTAINERS

John M. Sharf, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application June 27, 1947, Serial No. 757,545

11 Claims. (Cl. 226—82)



10. In a vacuum-closing machine in which hot condensable vapor is directed into the open mouth of a container, a vapor distributor comprising a plenum chamber having a substantially unrestricted, longitudinally directed narrow slot extending throughout a substantial portion of the length of the bottom wall of the plenum chamber and of a width throughout a major portion at least of its length which is less than the width of the mouth of a container to be vacuum-sealed for directing a ribbon of vapor advancing in flow approaching ideal laminar flow into the open mouth of a container moving therebelow with an area laterally disposed with respect to the zone of steam ejection into the container for the withdrawal of air and contaminated steam from the container mouth, an inclined end wall in said plenum chamber having an opening therein extending from said slot for establishing a rising atmosphere of vapor from said plenum chamber above said opening, and a closure track disposed in an inclined position above said end wall with the lower end thereof which receives a closure for application to a container disposed in the path of said atmosphere of steam.

2,534,306

KETENE-ALDEHYDE MODIFIED OILS

Leon Shechter, East Orange, and John M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application June 8, 1948, Serial No. 31,847

11 Claims. (Cl. 260—23)

1. Polyhydric alcohol mixed ester of (1) a monocarboxylic acidic reactant selected from the group consisting of fatty oils, their acids and partial polyhydric alcohol esters of the acids, and (2) a C—C linkage reaction product of substantially equimolar quantities of ketene with an unsaturated aldehyde selected from the group consisting of acrolein, crotonaldehyde, 2,4-hexadienal-1, octatrienal, and cinnamic aldehyde.

2,534,307

KETENE-ALDEHYDE MODIFIED ALKYD MIXED ESTERS

Leon Shechter, East Orange, and John M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application June 8, 1948, Serial No. 31,848

12 Claims. (Cl. 260—23)

1. Polyhydric alcohol mixed polymeric ester of an alkyd forming dicarboxylic acid and a polymeric reaction product of substantially equimolar proportions of ketene and an unsaturated aldehyde of the acrylic series selected from the group consisting of acrolein, crotonaldehyde, 2,4-hexadienal-1, octatrienal, and cinnamic aldehyde.

2,534,308

ROSIN-CONTAINING MIXED ESTERS

Leon Shechter, East Orange, and John M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application October 27, 1948, Serial No. 56,918

6 Claims. (Cl. 106—222)

1. Process of preparing a mixed ester which comprises reacting ketene with an unsaturated aldehyde of the acrolein series at a temperature ranging from −50 to +30° C. in the presence of a catalyst selected from the group consisting of the Friedel-Crafts and clay types, and esterifying the product together with rosin by means of a polyhydric alcohol having a functionality of more than two.

2,534,309

COMPOSITION FOR INTERNAL-COMBUSTION ENGINES

Donald H. Sheffield, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 6, 1947, Serial No. 784,519

9 Claims. (Cl. 44—57)

2. A gasoline fuel containing from about 0.05% to about 90% by weight, based on the total composition, of an α,α-dialkylarylmethyl hydroperoxide.

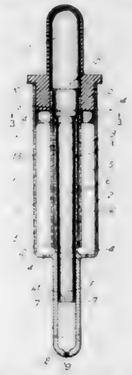
2,534,310

DROP DISPENSING CONTAINER

Irving Silverman, Brooklyn, N. Y.

Application May 29, 1948, Serial No. 30,007

6 Claims. (Cl. 222—420)



1. A dispensing container for liquid comprising a vessel, a stopper sealing the top of said vessel, a tube piercing the bottom of said vessel terminating outside of said vessel in a constricted nozzle, and extending upwardly within said vessel nearly to said stopper, a bulb mounted on said stopper, and a second tube connecting said bulb through said stopper with the inside of said vessel, said last named tube extending downwardly freely around said first named tube nearly to the bottom of said vessel.

2,534,311

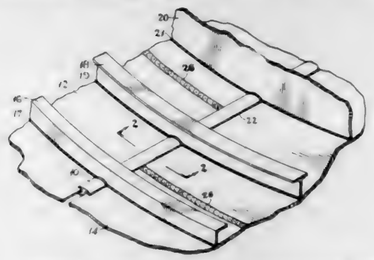
METALLIC PLATE CONSTRUCTION

Albert A. Smith, Glenn Dale, Md.

Application October 29, 1945, Serial No. 625,416

2 Claims. (Cl. 189—34)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A metallic plate assembly adapted for use in construction of ships and the like, comprising adjacent courses of metallic plates with intervening seams between courses, metallic seam straps having edge recesses positioned in said course seams with each recess receiving an adjacent course edge, water-proofing material in said recesses, and spaced transverse metallic ribs overlying said seam straps and the adjacent course plates and welded thereto, the outer edges of the seam straps being caulked on the plate edges to form therewith water-tight but slidable joints.

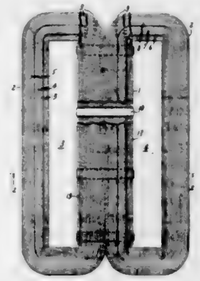
2,534,312

ELECTRIC INDUCTION APPARATUS

Gareth G. Somerville, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Original application March 21, 1946, Serial No. 655,961. Divided and this application June 5, 1947, Serial No. 752,620

1 Claim. (Cl. 175—356)



A core for single phase stationary induction apparatus comprising, in combination, four similar closed loops of radially nested flatwise curved laminations of magnetic strip material of the same width, each of said loops having a substantially straight leg portion and a single staggered joint which is within the lateral confines of its leg portion, said loops being grouped in pairs with the leg portions of the loops in each pair back to back and with the pairs side by side with their legs adjacent to each other, four generally similar loops except that they are smaller and narrower than the first mentioned larger loops nested respectively within the larger loops with their edges at the inside of the common leg portion formed by the leg portions of all of the loops flush with each other, four additional generally similar loops except that they are still smaller and narrower than the other loops nested respectively within the intermediate size loops with their edges at the inside of the common leg portion formed by the leg portions of all of the loops flush with each other, the joints in all of the loops being adjacent the same end of said common leg portion, the joint in the smallest loop and in the largest loop of each of the four groups of three nested loops being offset on opposite sides of a radial line running from the common center of the three nested loops through the joint in the intermediate size loop with the joint in the largest loop offset toward the common leg portion, spaced relatively thin flat tension straps extending in a center plane of the common leg portion perpendicular to the axis of said leg portion and contiguous to the flush edges of the laminations of all of said loops between the side by side related pairs of loops as opposed to the back to back related pairs of loops, pressure plates extending along opposite sides of said common leg portion in the core windows, and means for attaching the ends of said straps to said plates whereby said straps consti-

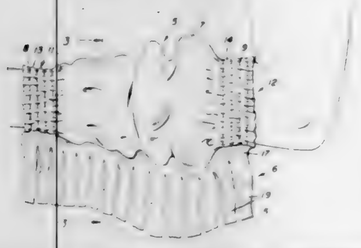
tute clamping means for all of the leg laminations and also spacing means between said side by side related loops.

2,534,313

AUTOMOBILE DRIVER'S HAND-SIGNALING FLAG

Jerome Starkey, Campbell, Calif.

Application May 23, 1949, Serial No. 94,758
2 Claims. (Cl. 116—114)



1. An automobile driver's hand-signalling aid comprising a sleeve adapted to be worn on the forearm between the hand and elbow, said sleeve being made of red colored inexpensive but durable cloth and having elastic self-adjusting retaining collars at opposite ends, one collar forming a wrist-band and the other an arm-band, and a red signalling flag stitched longitudinally to the normal bottom-side of said sleeve, said flag having its free longitudinal edge slitted to provide a plurality of dangling and flutterable ribbons, the latter being sufficiently wide and long to be clearly visible to persons within danger distance of the wearer of the sleeve.

2,534,314

MODIFICATION OF WOOL TO INCREASE ITS HARSHNESS AND FULLNESS AND TO DECREASE ITS LUSTER

Stuart E. Swanson, Hartford, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application November 3, 1947, Serial No. 783,842
4 Claims. (Cl. 8—95)

1. The process for imparting to B. A.-type wool the properties of harshness, plumpness and fullness requisite for conversion of the wool by standard procedures into pile fabric floor coverings and for decreasing its lustre which comprises wetting the wool with a solution containing approximately equal amounts of aluminum chloride and sodium thiosulfate.

2,534,315

TREATMENT OF WOOL TO INCREASE ITS HARSHNESS AND FULLNESS AND TO DECREASE ITS LUSTER

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application December 13, 1947, Serial No. 791,668
9 Claims. (Cl. 8—95)

1. The process for imparting to B. A.-type wool the properties of harshness, plumpness, and fullness requisite for conversion of the wool by standard procedures into pile fabric floor covering and for decreasing its lustre which comprises wetting the wool with an aqueous solution having a pH value between 3.0 and 4.5 and consisting essentially of 2% to 8% by weight of the wool of an aluminum sulfate salt selected from the class consisting of aluminum sulfate, sodium aluminum sulfate and ammonium aluminum sulfate.

2,534,316

TREATMENT OF WOOL TO INCREASE ITS HARSHNESS AND DECREASE ITS LUSTER

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application January 13, 1948, Serial No. 2,138
3 Claims. (Cl. 8—95)

1. The process for imparting to B. A.-type wool the property of harshness requisite for conversion of the wool by standard procedures into pile fabric floor covering, and for decreasing its lustre, which consists essentially in wetting the wool with a solution having a pH between 7.0 and 12.0 and containing a barium compound selected from the class consisting of barium oxide and barium hydroxide, and thereafter treating the wool with sulfuric acid.

2,534,317

MODIFICATION OF B. A.-TYPE WOOL TO IMPART HARSHNESS AND LOW LUSTER THERETO

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application June 29, 1949, Serial No. 102,151
3 Claims. (Cl. 8—95)

1. The process for imparting to B. A.-type wool the property of harshness requisite for conversion of the wool by standard procedures into pile fabric floor covering, and for decreasing its lustre, which consists essentially in wetting the wool with an aqueous solution of 1% to 10% of the weight of the wool of titanyl sulfate, said solution being sufficiently dilute to cause substantial hydrolysis of the titanyl sulfate.

2,534,318

PROCESS FOR MODIFYING B. A.-TYPE WOOL TO IMPART HARSHNESS AND LOW LUSTER THERETO

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application July 16, 1949, Serial No. 105,268
3 Claims. (Cl. 8—95)

1. The process for imparting to B. A.-type wool the properties of harshness requisite for conversion of the wool by standard procedures into pile fabric floor covering, and for decreasing its lustre, which consists essentially in wetting the wool with an acid aqueous dispersion of ½% to 10% of the weight of the wool of titanium dioxide.

2,534,319

MODIFICATION OF B. A. TYPE WOOLS

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application October 11, 1950, Serial No. 189,683
3 Claims. (Cl. 8—95)

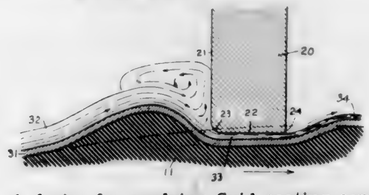
1. The process for enhancing the harshness and fullness and decreasing the lustre of B. A.-type wool which comprises treating the wool with a liquid having a pH of about 2 to 4 and consisting essentially of hydrated zirconia suspended in acidified water in an amount between ⅛% and 10% by weight of the wool.

2,534,320

APPARATUS FOR COATING PAPER

William Palmer Taylor, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

Application May 16, 1946, Serial No. 670,275
3 Claims. (Cl. 91—53)



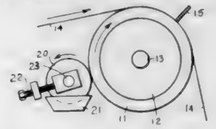
1. A device for applying fluid coating compositions to paper webs, which comprises: a rotatably mounted roll which is provided with a yielding resilient rubber covering having a density between 60 and 150, as measured on the Pusey and Jones Plastometer with a ⅛ inch ball, for carrying a freshly coated web of paper past a location where the coating on the paper is subjected to a doctoring operation; means for rotating said roll in a predetermined direction; a doctor blade in the form of a flat, laterally substantially inflexible prismatic bar having one broad lateral face **21**, the plane of which forms an angle of from 45 to 135 degrees with the surface of said roll, and an adjacent narrow lateral face **22**, which is nearest said roll, is substantially planar, is between ⅛ inch and ½ inch in width, and continuously converges at a nearly constant angle towards the surface of said roll, in the direction of its rotation, and terminates in a substantially sharp edge **24**, where it forms with the surface of said roll an angle A of from zero to ten degrees, when the two are in pressureless contact, the edge **23** between said broad face **21** and said narrow face **22**, being slightly rounded; a support for holding said doctor blade in position adjacent the surface of said roll, said support being adapted to permit movement of said doctor blade toward and away from said roll; and pressing means associated with said support for holding said doctor blade in a position to cause indentation of the rubber covering of said roll.

2,534,321

COATING METHOD AND APPARATUS

William Palmer Taylor, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio

Application May 16, 1946, Serial No. 670,276
8 Claims. (Cl. 117—111)



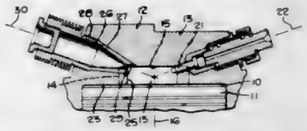
6. In a paper coating operation wherein a freshly coated paper web is carried on the surface of a moving, yielding, and resilient carrier of the nature of rubber, past a location where it is subjected to a doctoring operation in which pressure of a doctor member against the supported web deforms and locally elongates the supporting carrier surface to some degree, the method of preventing wrinkling and tearing of the paper at said location, which comprises moistening the moving surface of said carrier in advance of the position where the paper is carried thereon and thereby causing the paper to adhere to said surface where it is carried thereon.

2,534,322

METHOD OF OPERATING DIESEL-TYPE INTERNAL-COMBUSTION ENGINES

Fred. A. Thaheld, Brea, Calif., assignor to Diesel Power, Inc., Los Angeles, Calif., a corporation of Pennsylvania

Application November 22, 1949, Serial No. 128,691
1 Claim. (Cl. 123—32)



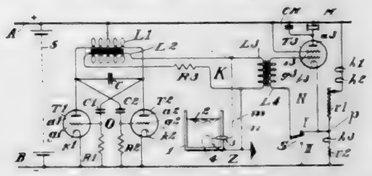
The method of operating a Diesel engine having a combustion chamber defined by a cylinder and a reciprocable piston therein and an auxiliary chamber communicating with said combustion chamber through a restricted passageway, comprising the steps of: compressing a charge of air in said chambers to ignition temperature by moving said piston in one direction, injecting coarse fuel throughout said combustion chamber at the completion of said piston movement to initiate combustion of said fuel, directing said injected fuel to prevent projection thereof into said auxiliary chamber, immediately moving said piston in the other direction at a rate to reduce the pressure in said combustion chamber below that in the said auxiliary chamber while said injected fuel is burning whereby a jet of air is caused to issue from said auxiliary chamber into said combustion chamber, directing said air jet to cause maximum turbulence and predetermined rate of combustion in said combustion chamber and thereby a rapid rise in pressure sufficient to cause reverse flow of some unburned fuel into said auxiliary chamber wherein said fuel burns and expands and causes a second jet to be projected into said combustion chamber to repeat the described cycle.

2,534,323

ELECTRONIC CONTROL APPARATUS

E. Craig Thomson, Boston, Mass., assignor to Photoswitch, Incorporated, Cambridge, Mass., a corporation of Massachusetts

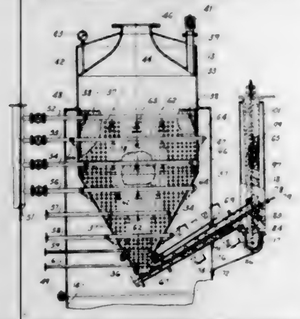
Application August 20, 1943, Serial No. 499,397
10 Claims. (Cl. 250—27)



10. An electronic relay comprising: a source of direct current; a discharge device having an anode, cathode and control electrode; an output circuit including said source, said anode and

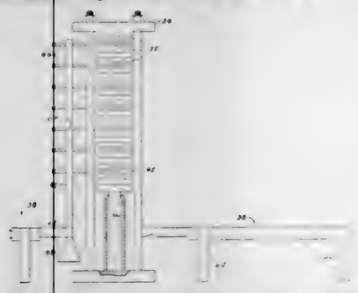
cathode, and current-responsive means for actuating a controlled device; a control transformer, having a primary and a secondary, said secondary being connected as a biasing impedance between said cathode and control electrode; a variable detecting impedance; a detecting circuit, electrically isolated from said output circuit, and including said primary directly connected to said detecting impedance; and means for supplying alternating current to said detecting circuit while maintaining its isolation.

2,534,324
PROCESS FOR SEPARATING COOKING LIQUOR FROM PULP
Paul G. von Hildebrandt, Port St. Joe, Fla.
Application July 2, 1945, Serial No. 602,898
8 Claims. (Cl. 8—156)



1. The process of separating pulp from cooking liquor in the manufacture of paper, which comprises diffusing steam through a moving mass of said pulp and draining the liquor from said mass.

2,534,325
MULTIPLE PLATEN PRESS
Elwood J. Way, Washington, D. C.
Application March 28, 1949, Serial No. 83,962
10 Claims. (Cl. 154—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a press having a plurality of platens arranged in a vertical column, a conveyor mechanism comprising an elevator arm on one side of said press, said arm being pivoted by a first pivot near one end so that it is adapted to be raised to extend vertically along said column of platens and adjacent thereto and to be lowered to a horizontal position, a plurality of work carrying arms pivoted to said elevator arm, means for maintaining said work carrying arms in a horizontal position regardless of the position of said elevator arm, means for moving said first pivot to and from said press whereby said work carrying arms may be extended between and withdrawn from said platens, and means whereby said first pivot may be slightly raised and lowered while said arm is in its upward position.

2,534,326
PROCESS OF MANUFACTURING PHOTOGRAPHIC ELEMENTS
Clay Weaver, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 27, 1946, Serial No. 712,721
5 Claims. (Cl. 117—34)

1. A process of manufacturing photographic elements which comprises coating a support with a solution of a synthetic hydroxyl polymer containing a substantial amount of a soluble boron compound capable of yielding borate ions, said solution having a pH less than 7.0, drying the layer and coating the resulting layer with a fluid silver halide emulsion in a synthetic hydroxyl polymer having a pH greater than 7.0, each said hydroxyl polymer being water-soluble to hydrophilic in character and containing a large number of recurring intralinear

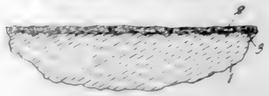
$$-CH_2-\underset{|}{C}HOH-$$

groups.

2,534,327
VITRIFYING REFRACTORY COMPOSITION AND PRODUCT
Henry L. Whitman, Los Angeles, Calif., assignor, by decree of court, to Katherine L. Whitman
Application September 6, 1946, Serial No. 695,221
7 Claims. (Cl. 106—49)

2. A vitrifying composition adapted to produce a refractory vitrified crystalline acid-type coating for refractory materials, comprising by weight the following ingredients: zirconium silicate 50% to 60%, clay 10% to 20%, asbestos 7% to 15%, aluminum oxide 4% to 15%, litharge 2% to 5%, magnesium oxide 3% to 10%, a carbonate 2% to 5% selected from the group consisting of sodium carbonate and potassium carbonate, a chloride 2% to 8% selected from the group consisting of sodium chloride and potassium chloride, mica 5% to 15% and a silicate 1% to 5% selected from the group consisting of sodium silicate and potassium silicate, the last three named ingredients facilitating a binding connection of the coating to the refractory material.

2,534,328
VITRIFYING REFRACTORY COMPOSITION AND PRODUCT
Henry L. Whitman, Los Angeles, Calif., assignor, by decree of court, to Katherine L. Whitman
Application September 6, 1946, Serial No. 695,222
8 Claims. (Cl. 106—49)



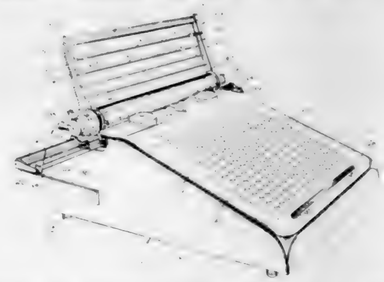
2. A vitrifying composition adapted to produce a refractory, vitrified crystalline spinel type product, comprising by weight the following ingredients: magnesium oxide 20% to 25%; zirconium silicate 25% to 30%; aluminum oxide 5% to 15%; clay 8% to 15%; asbestos 5% to 15%; litharge 3% to 10%; a carbonate 2% to 8%, selected from the group consisting of sodium carbonate and potassium carbonate; a chloride 3% to 8%, selected from the group consisting of sodium chloride and potassium chloride; mica 2% to 8%; and a silicate 1% to 5% selected from the group consisting of sodium silicate and potassium silicate.

2,534,329
SYNCHRONIZER CIRCUIT
Jefferson R. Wilkerson, Bayside, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application October 22, 1943, Serial No. 507,251
5 Claims. (Cl. 343—7)

3. In combination, a source of fixed-frequency voltage, adjustable phase-shifting means connected to said source and adapted to supply a voltage identical in frequency but displaced in phase relative to said fixed-frequency voltage, separate means for generating first and second series of pulses each having a periodicity equal to the frequency of said fixed-frequency voltage and having a given phase relationship respectively to said fixed-frequency voltage and to said phase-shifted voltage, means for subjecting said second series of pulses to a variable time delay, and means actuated by the time displacement between said first series of pulses and said delayed second series of pulses for automatically varying the setting of said phase-shifting means to provide a continuous measure of said variable time delay.

2,534,330
CHINESE TYPEWRITER
Kuoyee Wong, Hong Kong, China
Application March 26, 1948, Serial No. 17,135
5 Claims. (Cl. 197—1)

1. A Chinese typewriter comprising a housing, a platen rotatably supported on said housing, ribbon-supporting means on said housing, bracket means on said housing formed and arranged to guide a ribbon from said ribbon-supporting means past an under surface portion of said platen, a hood-like member carried in said housing beneath the platen, said hood-like member being formed with a plurality of guide bores converging upwardly toward said under surface portion, a movable rod member slidably positioned in each guide bore, a plurality of rows of depressible keys carried by said housing, means connecting said keys to said rod members, said connecting means being formed and arranged to advance a rod member upwardly through its bore responsive to the depression of the key associated therewith, means for maintaining said keys depressed, and



means for simultaneously releasing all the depressed keys and returning the rod members to retracted positions in their bores.

2,534,331
4,5-IMIDAZOLEDICARBONITRILE AND METHOD OF PREPARATION
David W. Woodward, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 30, 1949, Serial No. 113,247
17 Claims. (Cl. 260—309)

3. A process for the production of 4,5-dicyanoimidazoles which comprises heating to a temperature of 70° C. to 180° C. hydrogen cyanide tetramer together with an ortho ester of a monocarboxylic acid having the formula

$$R-C\equiv(OR')_3$$

wherein R is a substituent of the group consisting of hydrogen and monovalent hydrocarbon radicals of from 1 to 11 carbon atoms and R' is an alkyl radical of less than 3 carbon atoms.

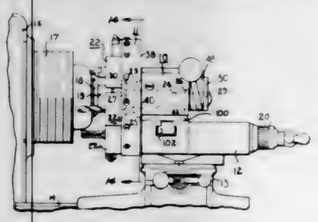
2,534,332
2-OXOIMIDAZOLINES AND PROCESS FOR PREPARING THE SAME
David W. Woodward, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 15, 1949, Serial No. 115,951
11 Claims. (Cl. 260—309)

1. The process for the production of nitrogen-containing heterocyclic compounds which comprises reacting phosgene with hydrogen cyanide tetramer in the presence of a hydrogen chloride acceptor, said reaction mass having a pH of between 3.0 and 12.0.

2,534,333
TURRET
Clayton Earl Wyrick, Miami, Fla., Mary R. Wyrick, executrix of said Clayton E. Wyrick, deceased, assignor to Hopkins-Wyrick Laboratories, Inc., Miami, Fla., a corporation of Florida
Application April 13, 1945, Serial No. 588,179
7 Claims. (Cl. 29—49)

1. In a machine tool, a support member, a turret rotatably mounted upon said support member, means for rotating said turret, latch bolt means extending from said support member into engagement with said turret to stop the same upon

indexing rotation thereof, and an actuating mechanism in said support for said latch means including an oscillatable member engaging said latch bolt member for reciprocation thereof, a reciprocable member for actuating said oscillatable member, a trip lever carried by said means for rotating said turret for actuating said reciprocable member, and a swingable lever carried by said reciprocable member engageable with a stop



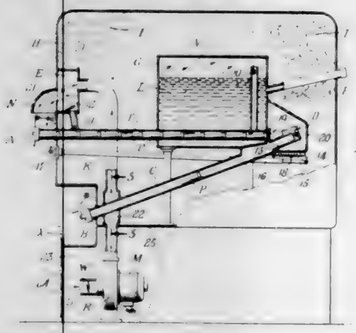
means to lock said latch bolt in unlatched position upon movement of said reciprocable member in one direction by said trip lever, said trip lever having means engaging said swingable lever after a determined movement of said trip lever whereby to release said swingable lever from said stop means to permit return movement of said reciprocable member and latching movement of said latch bolt.

2,534,334

COLD TREATING METHOD AND APPARATUS

Phillip M. Ahlstrand, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application June 30, 1945, Serial No. 602,462
17 Claims. (Cl. 62—1)



1. A method which includes cooling a metal article to prepare it for assembly in a recess in a cooperating member, such method comprising placing said article in a cooling chamber normally closed to exclude atmospheric moisture and consequent deposition of frost on said article; passing through said chamber, and directly into contact with said article, a cold gas produced by vaporizing a liquefied gas selected from the group consisting of liquid oxygen and liquid nitrogen; after said cold gas leaves said chamber and before it is discharged into the atmosphere, diluting such cold gas with air at room temperature; and thereafter discharging such diluted gas into the atmosphere.

2,534,335

GARMENT POCKET CONSTRUCTION

Louis Berman, New York, N. Y.

Application February 18, 1950, Serial No. 144,891
5 Claims. (Cl. 2—94)

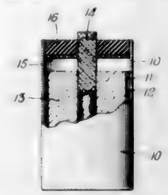
1. A torso-covering garment having slits which are lengthwise of the garment along the lines where each front portion of the garment meets the back portion of the garment and a fabric member positioned on the interior surface of the garment and extending at least across said slits and folded over on itself to form two plies thereof; the ply thereof contacting the interior surface of the garment, having two slits set in register respectively with the slits in the garment; corresponding edges of each registered pair of slits, being secured and the marginal edges of said plies, being secured to each other at least between the slits in said member.

2,534,336

PRIMARY GALVANIC CELL

Nelson C. Cahoon, Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application December 14, 1944, Serial No. 568,137
15 Claims. (Cl. 136—142)



1. A primary galvanic cell comprising a soluble electrode; an insoluble electrode; a depolarizer mix; an electrolyte; and a diaphragm adjacent to and in contact with said soluble electrode and said depolarizer mix, said diaphragm being composed of a bibulous chemically inert, nonfibrous, synthetic organic film material at least the surface portion of said diaphragm in contact with said depolarizer mix being swellable in said electrolyte but insolubilized.

2,534,337

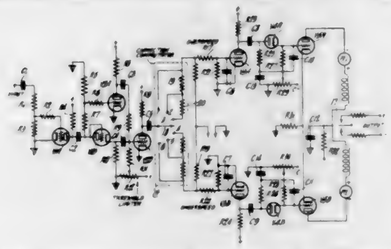
SYNCHRONOUS TELEGRAPH SYSTEM

Arthur E. Canfora and Lewis A. Thomas, Brooklyn, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application January 3, 1947, Serial No. 720,018
15 Claims. (Cl. 178—69.5)

1. An arrangement for synchronizing the operation of telegraph apparatus with received code signals, including means to produce unidirectional current pulses of substantially constant amplitude, one of said pulses being produced for each transition between marking and spacing elements of said code signals, means to vary the amplitude of said pulses in accordance with the degree of asynchronism between said code signals and said telegraph apparatus to produce correction pulses, a charging circuit, means to apply said correction pulses to said charging circuit to affect the same

in direct proportion to the amplitude of said correction pulses and independently of the repetition rate thereof, means to integrate the output



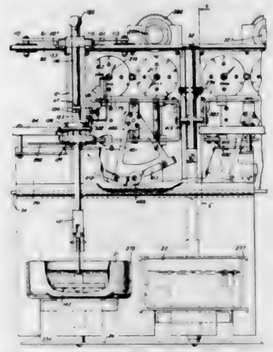
of said charging circuit, and means to utilize said integrated output to control said telegraph apparatus.

2,534,338

AUTOMATIC ETCHING APPARATUS

Frank Caroselli, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 20, 1948, Serial No. 61,239
8 Claims. (Cl. 41—9)



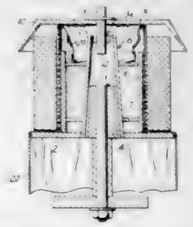
1. The combination, with apparatus for treating a plurality of crystals having a plurality of treatment stations, a tank at each of said stations, a liquid in each of said tanks, means for conveying a plurality of crystals to be treated and means for immersing the crystals in the liquid of each of said tanks in succession, of means for automatically controlling the movement of said conveying means whereby to fix the immersion interval for each of said tanks, comprising a source of rotational power, a clutch at each of said stations associated with said source of rotational power, a timing shaft actuatable by each of said clutches; a driving cage, having a plurality of parallel rods fixed therein, connected to said timing shaft; a stationary timing screw disposed within said driving cage; a flywheel, apertured for sliding passage therethrough of said parallel rods, threadably engaging said timing screw; a crank plate secured to one end of said timing screw and arranged to be engaged by said flywheel at one end of its traverse relative to said timing screw, a follower crank plate positioned coaxially with said crank plate and arranged for resilient rotational connection thereto; a stub shaft connected to said follower crank plate, a crank block fixed on said stub shaft, and a crank arm extending from said crank block and arranged for engagement with said means for conveying a plurality of crystals to be treated from one of said stations to a succeeding one of said stations.

2,534,339

WARP-WINDING FROM CAKES

John S. Chaya, Springfield, and William L. Spann, Boothwyn, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 4, 1944, Serial No. 529,448
12 Claims. (Cl. 242—130)



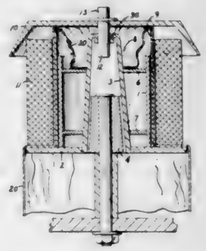
1. A package holder for annular wound packages of filamentary material and suitable for use in warping from cakes, said holder comprising a base having an opening therethrough, a hollow member projecting from the opening and having an internal surface tapering inwardly from the base, a member having a generally cylindrical outer surface projecting from the base and surrounding at least a portion of the hollow member adjacent to the base, the inner surface of the second member being removed from the outer surface of the first member to provide an annular recess between the surfaces adjacent the end thereof away from the base, and reinforcing means arranged within and constituting the bottom wall of the recess rigidly connecting the hollow member and the member surrounding the hollow member together.

2,534,340

WARP-WINDING FROM CAKES

John S. Chaya, Springfield, Pa., and William L. Spann, deceased, late of Concord Township, Delaware County, Pa., by Marian L. Spann, executrix, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Original application April 4, 1944, Serial No. 529,448. Divided and this application August 13, 1947, Serial No. 768,326
1 Claim. (Cl. 28—72.5)



A method of warping from cakes of yarn mounted in a creel by a plurality of supports having outer annular bases, each cake being car-

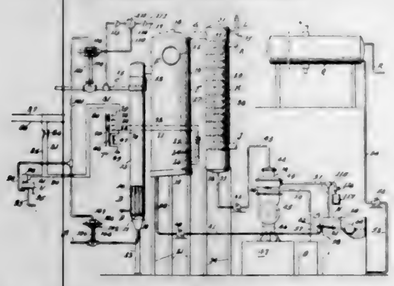
ried by the annular base with one end of the cake in direct contact with the base, comprising unwinding the yarn from each cake by guiding it over the end thereof opposite to the end in contact with the base of the support, passing the yarn unwinding from the cake around an annular guiding surface lying between the opposite ends of the cake and having a diameter greater than that of a full cake, to prevent sloughing-off of the yarn from the end of the cake over which the yarn is unwound during the unwinding operation, to control the angle of take-off of the yarn from the cake, and to hold ballooning of the yarn above a predetermined minimum during the entire unwinding operation, passing the yarn proceeding around the annular guiding surface through a guide spaced generally axially from the end of the cake over which the yarn is being unwound, and then guiding the several unwinding yarns to a rotating warp beam.

2,534,341

PROCESS OF REMOVING OIL FROM CITRUS FRUIT JUICES

Joseph A. Cross, Westerville, Ohio, assignor to Mojonnier Bros. Co., a corporation of Illinois

Application October 31, 1945, Serial No. 625,741
8 Claims. (Cl. 99—155)



5. A method of treating citrus juice which comprises: supplying heat to a flowing stream of freshly extracted citrus juice, passing the heated citrus juice into a flash chamber maintained at a subatmospheric pressure to vaporize oily constituents and some water therefrom, condensing the oily constituents and water, gravitationally separating the condensed oily constituents and water, separately withdrawing the oily constituents, and mixing the separated water with substantially oil-free citrus juice discharged from the flash chamber.

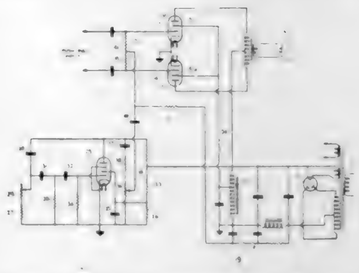
2,534,342

VIBRATO MEANS FOR AUDIO AMPLIFIERS

Nathan I. Daniel, Long Branch, N. J.

Application August 29, 1947, Serial No. 771,259
4 Claims. (Cl. 179—1)

1. In an audio amplifier having a pair of output tubes arranged in push-pull relationship and fed by a pair of oppositely phased audio signals to the respective control grids of the tubes, vibrato means for said amplifier, said vibrato means comprising a vibrato frequency oscillator, a potentiometer across the output of said oscillator so as to vary the output amplitude thereof, said potentiometer being effectively connected to a common midpoint of said control grids so as to feed the output of said oscillator to said control grids in like phase whereby the output of said tubes is amplitude modulated by the oscillator output and whereby the oscillator frequency per se is cancelled in the output of the push-pull circuit, and means to tune said vibrato frequency oscil-



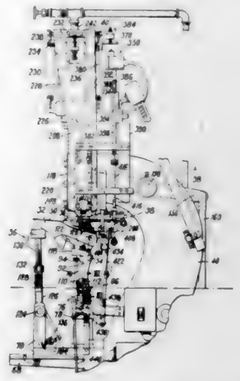
lator over a range of approximately 3 to 20 cycles per second.

2,534,343

HEEL-BREASTING MACHINE

Frank A. Eich, deceased, late of Melrose, Mass., by Elizabeth A. Eich, administratrix, Melrose, Mass., and Napoleon A. Monfils, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 28, 1949, Serial No. 107,154
21 Claims. (Cl. 12—47)



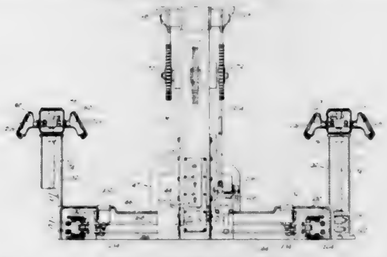
1. In a heel breasting machine, a movable support for a shoe which has an unbreasted heel, an abutment constructed and arranged to be engaged by the tread end of the heel, hydraulically powered mechanism, electrically actuated valve controlled mechanism for rendering effective or ineffective the hydraulically powered mechanism, a breasting knife movable past said abutment, and means comprising a treadle movable from a predetermined position to render portions of the valve controlled mechanism operative thereby causing the hydraulically powered mechanism to actuate the support and thus to force the tread end of the unbreasted heel of the shoe mounted upon the support against the abutment, said means being movable to a second predetermined position to operate said electrically actuated valve controlled mechanism and accordingly other portions of said hydraulically powered mechanism to cause the breasting knife to be moved past said abutment to breast the heel.

2,534,344

QUADRUPLE 20 MILLIMETER GUN MOUNT MECHANISM FOR CONTROLLING THE AIMING OF A GUN

John M. Ewart, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 16, 1948, Serial No. 49,614
1 Claim. (Cl. 89—41)



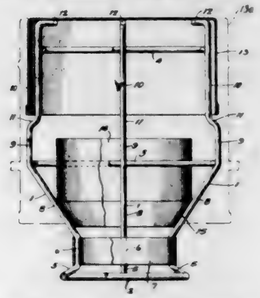
In a gun mount including hydraulic motors for training a gun on the mount in azimuth and elevation, valves for controlling said motors, a control stand located on each side of said gun and spaced therefrom, a control panel located on said mount and accessible from either control stand, a set of control grips on each control stand, mechanical connections including horizontally extending rods leading from said grips to said valves, said connections including a disconnecting mechanism for each set of grips, each disconnecting mechanism including a pair of bell cranks normally having their respective arms locked for azimuth and elevation control movements about a common fulcrum, means for simultaneously unlocking the arms of one of said pairs of bell cranks a solenoid operatively connected to each disconnecting mechanism for actuating said means, and a switch on said control panel for controlling said solenoids whereby an operator at either of said control stands may disconnect the connections leading to the grips on the other control stand.

2,534,345

CHEESE HOOP HOLDER FOR MILK CAN WASHING MACHINES

Arthur Farrar, Huntington, Ind., assignor to Kraft Foods Company, a corporation of Delaware

Application November 18, 1944, Serial No. 564,038
7 Claims. (Cl. 134—49)



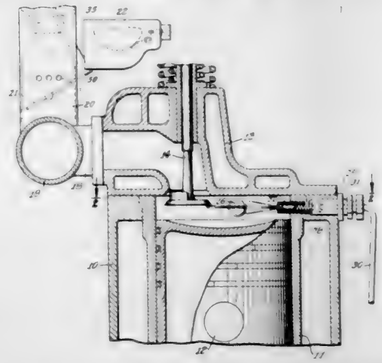
1. An adapter for washing cheese hoops in a milk can washing machine wherein a milk can is propelled through the machine by means engaging its mouth portion, and wherein the washing operation is controlled by a device which is engaged by the neck portion of the milk can as an incident to the travel of the milk can through the machine, the adapter comprising a skeleton frame provided with an upper portion of such external size as to fit within an inverted cheese hoop, and with lower end and neck portions having dimensions which are substantially equal to the dimensions of the mouth and neck portions, respectively, of a milk can, whereby said lower end and neck portions of said frame are the functional equivalents of the mouth and neck portions, respectively, of a milk can in respect to the can propelling means and the washing control device of the milk can washing machine.

2,534,346

INTERNAL-COMBUSTION ENGINE

William N. Fenney, New York, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 23, 1943, Serial No. 515,354
8 Claims. (Cl. 123—32)



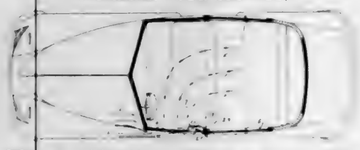
1. In the operation of an internal combustion engine without knocking, wherein a carbureted mixture of air and fuel which is too lean to support combustion is introduced directly into the main combustion space of a cylinder of said engine and compressed therein, fuel is injected in atomized form into a localized portion of said compressed lean mixture in said main combustion space to render the said localized portion combustible, the said localized portion is promptly spark-ignited to establish a traveling flame front, and the injection of fuel is continued following the establishment of said traveling flame front while moving the locus of fuel injection and the compressed lean mixture in said main combustion space relatively to each other in an orderly manner to successively impregnate additional portions of the compressed lean mixture with fuel to progressively form additional localized combustible mixtures immediately in advance of the traveling flame front so that they are ignited thereby and burned substantially as rapidly as formed, the improvement which comprises carbureting at least the major portion of the air introduced into said main combustion space while maintaining the resulting carbureted mixture introduced therein below the combustible limit during normal operation of the engine under load, adding auxiliary uncarbureted air to the carbureted fuel-air mixture introduced into the said main combustion space at higher engine loads, and concomitantly increasing the amount of fuel injected in atomized form to thereby de-

crease the proportion of the total fuel added by carbureted mixture and increase the proportion of the total fuel added by injection at the higher engine loads.

2,534,347
PRODUCTION OF POLY-SULFONE AMIDE POLYMERS
James Wotherspoon Fisher and Edward William Wheatley, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain
No Drawing. Application February 17, 1950, Serial No. 144,854. In Great Britain March 7, 1949
4 Claims. (Cl. 260—79)

1. Process for the production of a linear polysulphone-amide, which comprises oxidizing the corresponding linear poly-thio-ether-carboxylic-amide containing the thio-ether and carboxylic-amide groups in the linear chain by means of a peroxide in a reaction medium consisting of a mixture of formic and acetic acids containing up to 25% by weight of water on the combined weights of the two acids.

2,534,348
AUTOMOBILE WINDOW AIR DEFLECTOR
Chester H. Gillig, Oakland, Calif.
Application August 11, 1947, Serial No. 768,023
4 Claims. (Cl. 296—44)



1. The combination with an automobile side window having a frame and a slidable window pane which is adapted to be moved for opening or closing the window; of an air deflector mounted at the rear of said window within the automobile adjacent the plane of the window pane; said deflector comprising a transparent sheet portion of a configuration adapted to overlie the entire space between the top and bottom of the window at its rear and having an outwardly extending flange along its top, bottom and rear, the marginal edge of said flange being substantially congruent with the configuration of the rear portion of the window frame whereby when the deflector is positioned with said marginal edge adjacent said rear portion of the window frame, a pocket is provided within said flange to catch air entering the open window and deflect said air outwardly; and means mounting said deflector for pivotal movement about an upright axis and for inward movement of the rear of the deflector, so that an opening may be provided between the rear thereof and the rear of the window frame.

2,534,349
CHRISTMAS TREE SUPPORT
Lester S. Groat, Omaha, Nebr.
Application February 12, 1949, Serial No. 76,100
2 Claims. (Cl. 248—44)

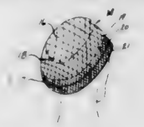
1. A device for the purpose described comprising a platform adapted to be disposed horizontally on the floor of a dwelling or the like, means for securing an end portion of the trunk of a Christmas tree to said platform, an approximately bell-shape hollow member having an open bottom and a closed top, said member being of two-piece construction, each of said pieces being provided with a notch at said top for receiving a half portion of the diameter of said trunk between the walls of said notches, a detent on an inner wall of each half portion, and a resilient

hook for each detent on each said inner wall, said hooks being adapted to engage their respective detents at times when said half portions are juxtaposed on said platform about said trunk.

2,534,350
GUIDE FOR DRAWERS OR SHELVES
Nathan A. Gussack, Flushing, N. Y.
Application May 5, 1947, Serial No. 746,000
3 Claims. (Cl. 308—3.8)

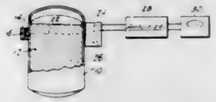
1. A slide support of the character described comprising an elongated channel member having an open side, a side wall and upper and lower horizontal walls integral therewith, said upper and lower walls being provided with opposed longitudinal grooves, a carriage slidably mounted within said channel member, said carriage having an open side, a side wall disposed adjacent said side wall of said channel member, and flexible horizontal walls, a track insertable between said horizontal walls of said carriage and slidable relative to said carriage and said channel member, said track presenting longitudinal grooves on the upper and lower surfaces thereof, said first-mentioned longitudinal grooves and said second-mentioned longitudinal grooves being arranged in respective pairs, said horizontal walls of said carriage having perforations adjacent their ends, balls rotatably disposed between respective pairs of said first-mentioned and second-mentioned grooves, said balls being rotatably and partially disposed within said perforations, one of said horizontal walls of said carriage having a pair of slots extending inwardly from the free edge thereof, said slots being disposed between and adjacent said perforations in said horizontal wall of said carriage, each of said slots having an enlarged base, a tensioning strip-spring interposed between said wall and said track, said strip-spring having end lugs, said end-lugs of said strip-spring being respectively inserted within said slots, said strip-spring being arched against said track, said strip-spring exerting force on the respective segmental portions of said horizontal wall of said carriage between said respective slots and perforations to press said respective segmental portions of said horizontal wall against said balls, said horizontal wall being arched toward the nearer of the horizontal walls of the channel member, said pressure of said respective segmental portions of said horizontal wall of said carriage against said balls pushing said balls against said track, said track having an integral mounting portion extending outwardly from said open side of said channel member for securement to a supporting surface, the side wall of said channel member presenting abutting stops adjacent the ends thereof to limit the forward and rearward movement of said carriage.

2,534,351
HAIR NET FOR BOBBED HAIR STYLES
Arthur M. Herschensohn, Scarsdale, N. Y.
Application June 10, 1950, Serial No. 167,294
1 Claim. (Cl. 132—49)



A hair net comprising a crown portion, a rim band portion and intermediate band portion connecting the rim and crown portions; the crown portion being of relatively coarse mesh netting, the rim band portion of relatively fine mesh netting and the immediate portion of netting whose mesh is coarser than that of the rim band portion and finer than that of the crown portion and including elastics woven in respectively around the rim of the net, around the junction of the rim and intermediate portions and around the rim band portion intermediate the other elastics.

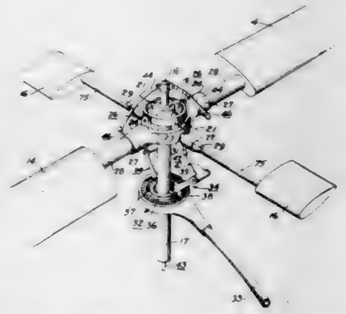
2,534,352
METHOD OF DETERMINING PROPORTIONS IN COMPOSITIONS OF SUBSTANCES
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 23, 1945, Serial No. 574,135
4 Claims. (Cl. 250—83.3)



1. The method of determining the proportions of two substances in a mixture which comprises transmitting a beam of gamma rays through said mixture over a predetermined path, transmitting said beam through mixtures of said substances wherein the proportions of the substances are known while maintaining the length of the path the same as for said first transmission, measuring the intensities of said beam after being transmitted through said unknown mixture and said known mixtures, and from a comparison of the measurements so obtained calculating the proportions of the substances in the unknown mixture.

2,534,353
ROTARY WING AIRCRAFT
Stanley Hiller, Jr., Menlo Park, and Harold H. Sigler, San Carlos, Calif., assignors to United Helicopters, Inc., Palo Alto, Calif., a corporation of California
Application January 24, 1949, Serial No. 72,453
6 Claims. (Cl. 170—160.26)

1. In a rotary wing aircraft, a lift wing supporting column, a lift wing, a structure for mounting said lift wing on said column for rotation about the axis of the column and for pitch adjustment about a first axis extending longitudinally of the lift wing and for flapping of the lift wing about a second axis extending transversely with respect to said first axis, a control blade mounted on said lift wing mounting structure for pitch adjustment about a third axis extending longitudinally of said control blade and transversely with respect to said first axis, said

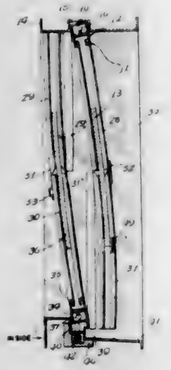


third axis being spaced from said second axis along the axis of said column; and means for effecting pitch adjustment of said control blade including wobble mechanism, a pilot operable control member connected to said wobble mechanism, and a linkage connection between said wobble mechanism and said control blade.

2,534,354
PLUG-IN MAGNETIC SWITCH HOUSING
Arthur C. Keller, Bronxville, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 8, 1947, Serial No. 778,524
1 Claim. (Cl. 200—87)

An electrical relay comprising an insulating base member having longitudinally extending bores therein, terminals located in the bottom of said bores, said terminals being tubular in configuration and having a portion thereof extending beyond the bottom surface of said base member, switching devices comprising tubular housings containing electromagnetically operable contacts, removably mounted in said bores and having pin terminals thereon in engagement with said tubular terminals, an electrical energizing coil surrounding said switching devices and positioned on the top of said insulating base member, a mounting plate member positioned on said base member and having ears projecting therefrom for securing the relay to a support, a tubular metallic casing surrounding said coil and a portion of said base member for holding said coil in position, the upper portion of said casing embracing the upper surface of said coil and the lower portion in engagement with the underside of said mounting plate, and terminals on said base member electrically connected to said coil.

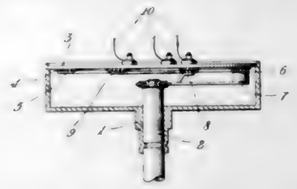
2,534,355
WINDOW
Julius Kirschstein and Carmine C. J. Maffei, Brooklyn, N. Y., assignors to Windalume Corporation, West New York, N. J., a corporation of New Jersey
Application January 10, 1946, Serial No. 640,191
7 Claims. (Cl. 20—45)



1. In combination in a window, an upper track member, a hinge for the latter located at the top thereof and having a horizontal axis of rotation, a lower track member, a hinge for the latter located at the bottom thereof and having a horizontal axis of rotation, said axes of rotation being in the same vertical plane, a pair of stops one on each side of said upper track member, each stop lying in the path of travel of said upper track member to limit the oscillatory motion thereof, a second pair of stops one on each side of the lower track member, each second stop lying in the path of travel of said lower track member to limit the oscillatory motion thereof, a second upper stationary track member located on one side of the first upper track member, a second lower stationary track member located on the other side of the first lower track member, said first upper and lower track members being in vertical alignment when each is abutted against one of its associated stops, and said first upper and lower track members being aligned with the second lower and upper track members respectively when each is abutted against the other of its associated stops, and a pair of window panes carried by said track members, and movable therealong.

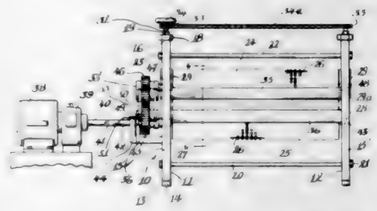
2,534,356
ELECTRIC APPARATUS CONSISTING OF A SUPPORT PROVIDED WITH A COVERING LAYER OF POOR CONDUCTIVITY
Jan Kramer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,178
In the Netherlands September 29, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires September 29, 1963
3 Claims. (Cl. 201—55)

1. An electrical resistance comprising a metallic support member provided with an oxidized coating on one side thereof, a layer of resistance material containing a conductive filler and an insulating binder over the oxidized coating, and a thin insulating layer containing the insulating binder of the resistance material and an insulating filler interposed between the layer of resist-



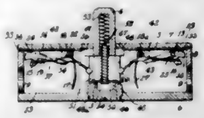
ance material and the oxidized coating for increasing the insulation between the support and the layer of resistance material.

2,534,357
MEAT-TENDERIZING MACHINE
Murray Lang, New York, N. Y.
Application August 9, 1946, Serial No. 689,543
4 Claims. (Cl. 17—26)



1. In a meat tenderizing machine, end supporting uprights, a stationary crushing roller journalled in the uprights and having peripheral teeth, an adjustable crushing roller cooperating with the stationary roller and having oppositely disposed peripheral teeth to compress the meat cut passing therebetween, a shaft to drive the stationary roller, slidable journalling means for the adjustable roller mounted in the uprights, extendible transmission means between the shaft and the movable roller to cause opposite rotation thereof, and a locking device connected to said slidable journalling means and supported by the uprights to fix the position of said journalling means with respect to each other in adjusted position.

2,534,358
CHOKER TRAP
John U. Lehn, Lititz, Pa., assignor to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Application November 22, 1946, Serial No. 711,591
8 Claims. (Cl. 43—85)



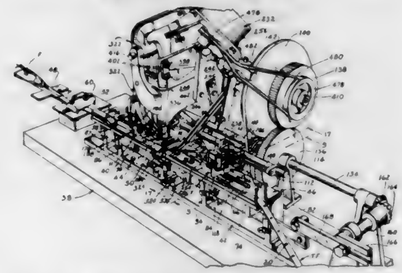
5. An animal trap comprising a housing having a flat bottom surface and having an opening in the side wall thereof, a pivotally mounted jaw in said housing above said opening, a spring for said jaw adapted to actuate said jaw downwardly past said opening and against said bottom of the hous-

ing, setting means including latch means for said jaw, releasing means for said latch means, and trap setting means extending within said housing to actuate said jaw into the set position.

2,534,359
PRESERVATION OF LATEX
Chester E. Linscott, Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 11, 1948, Serial No. 48,931
8 Claims. (Cl. 260—820)

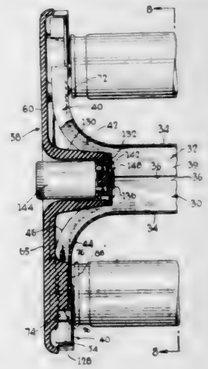
1. The method of preserving natural Hevea rubber latex which comprises adding to fresh natural Hevea rubber latex 0.1 to 1% of formaldehyde based on the latex, 0.05 to 1% based on the latex of a condensation product of formaldehyde with an alkali-metal salt of an aryl sulfonic acid, and 0.1 to 1% based on the latex of an amine of the group consisting of di- and tri-methylamines, di- and tri-ethylamines and morpholine.

2,534,360
MACHINE FOR PERFORATING A TAPE, FEEDING IT, AND ATTACHING SNAP FASTENERS THERETO
Charles L. Loverch, Brooklyn, N. Y., assignor to Harry Alfandre, New York, N. Y.
Application May 11, 1945, Serial No. 593,293
9 Claims. (Cl. 218—6)



1. In a machine for producing snap-fastener tape, said machine having means for attaching the companion parts of the snap fastener members to the tape; means for feeding said tape intermittently to advance successive longitudinally spaced portions thereof to said attaching means, and means spaced from said feeding means longitudinally of said plate and including a punch reciprocable to and from the latter for punching holes through the tape at said longitudinally spaced portions thereof, said tape-feeding means comprising a pair of tape gripping members arranged to grip the tape at opposite sides, respectively, thereof, said gripping members being mounted for reciprocation longitudinally of the tape and for movement toward and away from each other transversely of the tape for gripping and releasing the tape, and means for imparting said longitudinal and transverse movements to said gripping members, said gripping members being in gripping relation with the tape when they are moved longitudinally in the direction of feed of the tape and being released from the tape when they are moved longitudinally of the tape in the opposite direction, means for reciprocating said hole punching means longitudinally of the tape in unison with the reciprocation of said gripping members, and means projecting said plunger through said tape substantially at the start of each feed stroke of said feeding means for punching a hole in said tape, and maintaining said plunger projected through the punch hole in the tape substantially to the end of said feed stroke of the feeding means.

2,534,361
FIXTURE FOR FLUORESCENT LAMPS
Louis Ludwig, Brooklyn, N. Y.
Application November 16, 1946, Serial No. 710,318
7 Claims. (Cl. 240—51.11)

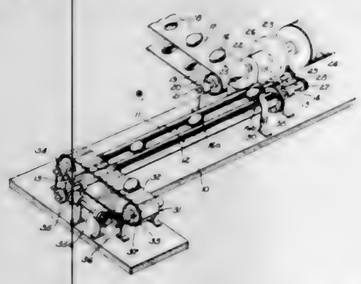


4. A two-lamp fluorescent electric fixture comprising a pair of elongated sheet metal channels, means to secure said channels to each other with the tips of the channel flanges in registration and proximity and facing one another, and with the channel bases remote, whereby to form a hollow open-ended enclosure adapted to receive electric equipment for the fixture, both ends of both said channels being outturned whereby to define a squat H-shaped member which is adapted to have an elongated fluorescent lamp disposed on each side of the cross bar thereof and parallel to said cross bar, a fluorescent lamp socket disposed on each outturned channel end, the sockets on the same sides of the cross bar being in registration, a starter socket at each end of the H-shaped member and facing in a direction parallel to and away from the cross bar and molded plastic end members to close both ends of the enclosure and the outturned channel ends, said end members having peripheral flanges which overlie flanges of the outturned channel ends.

2,534,362
ARTICLE ORIENTING APPARATUS
Roy M. Magnuson, Campbell, Calif.
Application December 22, 1945, Serial No. 636,569
1 Claim. (Cl. 198—33)

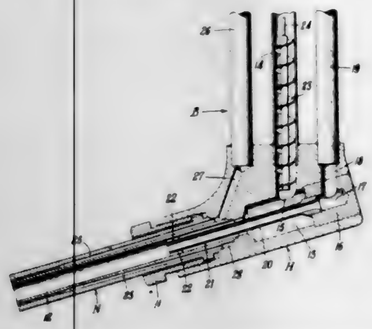
In an apparatus for orienting articles, such as eggs, peaches, pears, corn and the like, a pair of article supporting and feeding rolls disposed in parallel adjacent relation to provide an article supporting trough, means for effecting rotation of said rolls with their adjacent surfaces travelling oppositely, means for feeding indiscriminately arranged articles to said rolls in definite timed relation, whereby articles are oriented with their longitudinal axes parallel to the axes of the rolls and are progressed along the rolls with a predetermined end leading so that certain of the articles travel in one direction along said rolls and others of the articles travel in the other direction along said rolls,

and a disk carried by one of the rolls and overlapping the trough therebetween for effecting



turning of the articles travelling in said other direction.

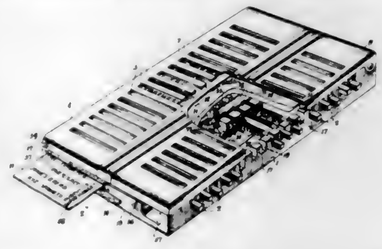
2,534,363
BLOWPIPE APPARATUS
Edward Meincke, Scotch Plains, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application April 21, 1943, Serial No. 483,872
10 Claims. (Cl. 110—22)



1. Blowpipe apparatus comprising nozzle means having passage means for discharging gas and powder therefrom; a first conduit for supplying a gas to said passage means; valve means controlling said first conduit; a second conduit communicating with said passage means for supplying finely-divided solid material thereto; a mechanical conveyor arranged for feeding such material from said second conduit into said passage means; an electric motor operatively associated with said conveyor; a motor control switch in circuit with said motor; and a common control means for said valve means and switch whereby the flow of gas through said first conduit and the operation of said conveyor are started and stopped in a predetermined relation to one another.

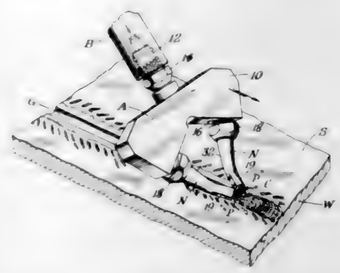
2,534,364
LIST PRINTING APPARATUS
Oswin C. Moll, Manhasset, N. Y.
Application April 30, 1946, Serial No. 666,141
7 Claims. (Cl. 101—93)

1. A recording device of the class described comprising a cover member, a plurality of printing strips carried by said cover member adjacent the underside thereof with type characters thereon facing downwardly, a base member, means adapted to support a sheet of carbon paper and a sheet of paper intermediate said printing strips and base member, push-rods one for each printing strip guidingly carried by said base member and adapted for endwise movement, and cooperating camming surfaces on said push-rods and



base member adapted to effect transverse movement of a push-rod toward its respective printing strip upon endwise actuation of a push-rod whereby said sheets of paper are pressed into printing relationship with a printing strip and a reproduction of characters on a printing strip formed on said sheet of paper.

2,534,365
BINOZZLE GOUGING TORCH AND METHOD
Charles R. Moore, Mendham, and John Villoresi, Lincoln Park, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application April 16, 1948, Serial No. 21,494
3 Claims. (Cl. 148—9.5)

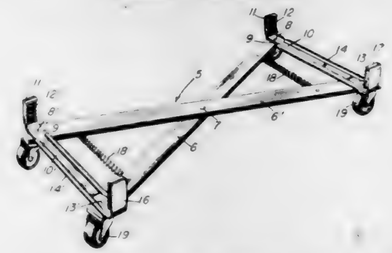


1. Method of thermochemically gouging a groove in ferrous metal which consists in discharging two similar streams of cutting oxygen at equal exit velocities of between 180 and 550 feet per second so that they substantially immediately merge and form a composite stream of gouging oxygen, the longitudinal axes of such streams lying in a common plane and forming an acute included angle of between 20 and 60 degrees, discharging work-preheating flame forming jets of gas adjacent each of the confluent streams of cutting oxygen, applying the work preheating flames and the composite stream of gouging oxygen against the work, and advancing the flames and composite stream of gouging oxygen at a constant speed along a predetermined path parallel to the direction of such groove, thereby progressively gouging a single ridge-free groove in such work by the combined heat of the resulting thermochemical reaction, supported by the work preheating flames, and the force of said composite stream of oxygen.

2,534,366
PRODUCTION OF POLYMERIC COMPOUNDS
Herman D. Noether, Kew Gardens, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 28, 1948, Serial No. 41,179
8 Claims. (Cl. 260—79)

1. In a process for the production of a polymeric sulfone from the corresponding polymeric sulfide, the step which comprises oxidizing said polymeric sulfide with a peroxide in a reaction medium comprising concentrated formic acid.

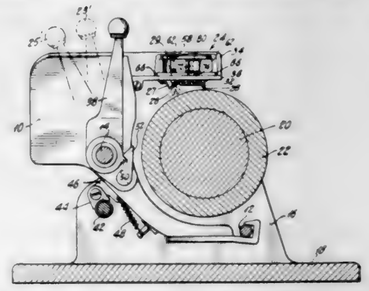
2,534,367
LOAD CARRIER
Edna M. Perrotta, Lyndhurst, N. J., and Gloria M. Parkrose, Brooklyn, N. Y.
Application April 14, 1949, Serial No. 87,422
4 Claims. (Cl. 280—35)



1. A load carrier comprising a pair of intersecting identically dimensioned cross bars, center pivoted, carrying casters swivelled below their opposite ends and two pairs of cooperating members pivoted thereabove and adjustably connecting the opposite ends of the bars, one pair having laterally extending tongues and upwardly extending cushioned flanges, the other pair having rectilinear channels slidably receiving the said tongues and having upwardly extending flanges, compression springs connecting the intersecting cross bars in parallelism with the pairs of cooperating members, the cross bars adapted to be flexed to adapt the confronting faces of the flanges to grip an article therebetween.

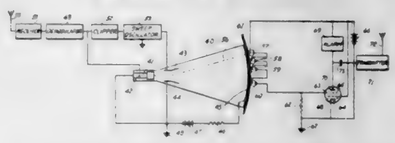
2,534,368
ELECTRIC PHONOGRAPH WITH SEPARATE STYLUS FOR RECORDING AND REPRODUCING
Lucius P. Petruschell, Mount Dora, Fla., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application April 24, 1947, Serial No. 743,535
1 Claim. (Cl. 179—100.41)

In a sound recording and reproducing machine, in combination, an electromagnetic translation device for recording a sound track upon a record member and for reproducing a sound wave previously recorded upon said track, comprising an elongated resilient armature supporting torsion member having one portion, means whereby said one portion is formed to oscillate freely about the torsion axis of said member in accordance with sound waves received by said translation device, a second portion, means whereby said second portion is formed to oscillate freely about the same axis in response to operative contact with a previously recorded sound track, a recording stylus and a reproducing stylus for alternatively making contact with said sound track, means comprising an armature and integral stylus holder for securing said recording stylus to the said one portion of said torsion member, means comprising an armature and integral stylus holder for securing said reproducing stylus to said second portion of said torsion member, means whereby said stylus holders are so disposed with respect to one another that a line connecting said styli in a plane parallel to the bottom of the resilient armature supporting member forms an angle substantially less than



90 degrees with said axis of oscillation of said oscillatory portions of said torsion member; a supporting arm for said translation device having a longitudinal axis normal to its pivotal axis, means whereby said supporting arm is pivotally mounted and adjustable means whereby said translation device may be mounted upon said supporting arm in such position that the line connecting the styli will lie in parallel relation with the said longitudinal axis of the supporting arm.

2,534,369
CATHODE-RAY TUBE SELECTOR SYSTEM
Thomas I. Ress, Chicago, Ill.
Application December 22, 1947, Serial No. 793,267
6 Claims. (Cl. 177—353)



1. A discriminating receiver for call signals of the type consisting of a plurality of characteristically spaced pulses including a reference pulse and several selector pulses, comprising a cathode ray tube having fluorescent screen means, a plurality of photoelectric cells positioned opposite respective portions of said screen means so as to be excitable by the ray of said tube when impinging upon said portions, sweep means for deflecting said ray at successive instants across said portions in a single sweep cycle, said sweep means being adapted to be triggered by said reference pulse to initiate the sweep cycle, ray control means normally operative to render said ray ineffective to excite said photoelectric cells, signal responsive means adapted momentarily to inactivate said ray control means in response to any of said selector pulses, whereby the ray will be made effective to excite a photoelectric cell upon arrival of a selector pulse at any of said instants, and alarm means connected to be operated only upon simultaneous excitation of all of said photoelectric cells, said fluorescent screen means consisting of a material having a persist-

ence at least equal to substantially the duration of a sweep cycle, thereby insuring overlapping periods of excitation of all photoelectric cells excited in the course of the same sweep cycle.

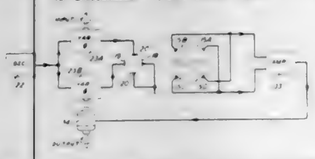
2,534,370
PRESERVATION OF LATEX
Chester E. Rhines, Glen Rock, and Chester E. Linscott, Ridgewood, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 11, 1948, Serial No. 48,932
2 Claims. (Cl. 260—820)

1. The method of preserving natural Hevea rubber latex which comprises adding to fresh Hevea rubber latex 0.1 to 1% of morpholine based on the latex, and thereafter adding 0.1 to 1% formaldehyde based on the latex, the pH of the thus treated latex being in the range 6 to 8.5.

2,534,371
PROCESS FOR PRODUCING MIXED CELLULOSE ESTERS
George Alvin Richter, Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 21, 1948, Serial No. 10,173
5 Claims. (Cl. 260—225)

1. A process for making modified cellulose esters containing monobasic acid radicals, and dibasic acid radicals which form cross-links between cellulose chains, which comprises reacting unesterified cellulose simultaneously with an anhydride of an unsubstituted, saturated, lower aliphatic monobasic acid in an amount sufficient to produce a tri-ester, and with an unsubstituted aliphatic dibasic acid in an amount equal to from 4×10^{-5} to 4×10^{-4} mols per each five grams of cellulose, in the presence of a mineral acid as an esterification catalyst, and of an inert diluent which is an at least partial solvent for the reaction product, the reaction being effected in the absence of an organic base and of water in excess of the amount of moisture normally retained by the cellulose, hydrolyzing the product to a secondary monobasic acid ester containing the dibasic acid radicals forming cross-links between the cellulose chains, and separating the hydrolysis product.

2,534,372
CATHODE-RAY DEVICE
Douglas H. Ring, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 19, 1948, Serial No. 60,887
2 Claims. (Cl. 315—21)



1. Electron discharge apparatus comprising two circuit elements of variable phase characteristics, means for applying signals of the same frequency to said elements, means for resolving the outputs of said elements into a control signal of amplitude proportional to the relative phase of said outputs, said resolving means comprising target means including an electrode having two intersecting sides extending in coordinate directions, means for projecting an electron beam toward said electrode and directed to a region adjacent the intersection of said sides, a first deflection means energized in accordance with the output of one of said elements for sweeping said beam in one of said coordinate directions and a second deflection means energized in accordance with the output of the other of said elements for sweeping said beam in the other of said coordinate directions, means for varying the phase of the output of one of said elements, and means controlled in accordance with said control signal for adjusting the phase of the output of the other of said elements.

2,534,373
ELECTRODE MOUNTING FOR HIGH-POWER ELECTRON DISCHARGE DEVICES
Victor L. Ronci, Zionsville, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 5, 1949, Serial No. 79,756
8 Claims. (Cl. 250—27.5)

3. An electrode assembly mounting comprising a glass portion, a metallic collar sealed thereto, a plurality of flexible portions cut in the wall of said collar and parallel to the axis thereof, a support mounted on said flexible collar portions, a standard extending through said support and slidable therein, a filamentary electrode having portions connected to said support and other portions supporting said standard, and an adjustable resilient connection joining said standard and said support.

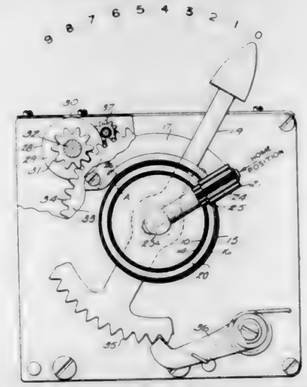
2,534,374
CREAMING OF NATURAL RUBBER LATEX
John S. Rumbold, Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 29, 1948, Serial No. 68,039
10 Claims. (Cl. 260—822)

1. The method of concentrating natural Hevea rubber latex to over 50% rubber content which comprises adding to fresh natural Hevea rubber latex 0.05 to 1.% of formaldehyde, and 0.02 to 1% of a condensation product of formaldehyde with an alkali-metal salt of an aryl sulfonic acid, and 0.02 to 0.5% of a vegetable mucilage creaming agent, said percentages being based on the latex, allowing the thus treated latex to stand until it separates into a cream fraction of over 50% solids concentration and a serum fraction, and separating said cream and serum fractions from each other.

2,534,375
CREAMING OF NATURAL RUBBER LATEX
John S. Rumbold, Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 7, 1949, Serial No. 86,120
8 Claims. (Cl. 260—822)

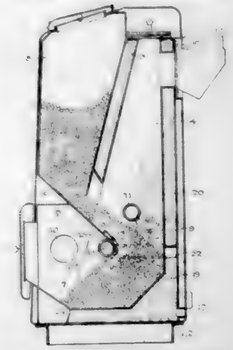
1. The method of concentrating natural Hevea rubber latex to over 50% rubber content which comprises adding to fresh natural Hevea rubber latex 0.05 to 1% of formaldehyde based on the latex and 0.02 to 1% based on the latex of a nonionic surface active agent selected from the group consisting of monoethers of polyglycols with long chain fatty alcohols, monoesters of polyglycols with long chain fatty acids and monoethers of polyglycols with alkyl phenols, thereafter, within three days of the formaldehyde addition, adding ammonia to raise the pH of the latex above 8 and adding 0.02 to 0.5% of a vegetable mucilage creaming agent based on the latex, allowing the thus treated latex to stand until it separates into a cream fraction of over 50% rubber content and a serum fraction, and separating said cream and serum fractions from each other.

2,534,376
DIFFERENTIAL ACTUATOR
Alva G. Russell, Stamford, Conn., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application June 5, 1947, Serial No. 752,738
8 Claims. (Cl. 235—81)



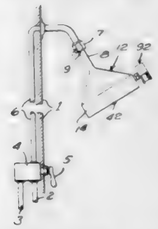
1. In a calculating device, the combination of accumulating mechanism including a toothed wheel, differential actuating means therefor comprising a circular rotative toothed member having teeth around the entire circular edge portion thereof and geared to the toothed wheel, a circular non-rotative toothed member having teeth around the entire circular edge portion thereof, one of said toothed members including means to vary the number of teeth thereof, a pinion continuously meshing with the teeth of both the rotative and non-rotative toothed members, and a cyclical drive for effecting planetary movement of said pinion around the teeth of the combined toothed members to thereby effect rotation of the rotative toothed member and toothed wheel of the accumulating mechanism in accordance with any difference in the numbers of teeth of the two toothed members.

2,534,377
BOILER FURNACE
Leonard Satchwell, Farnham Royal, and William H. Wilson, Camberley, England; said Wilson assignor to said Satchwell
Application September 26, 1946, Serial No. 699,496
In Great Britain January 31, 1945
1 Claim. (Cl. 122—30)



In a natural draft solid-fuel-fired furnace of the hopper type, an inclined plate, a tubular waterway at the lower end of said inclined plate and spaced from one of the furnace walls to provide a space for a fuel bed, said inclined plate being adapted to direct fuel into said space, a chamber below said inclined plate and open to the atmosphere, said plate having a hole therein, and a conduit extending along the upper face of said plate and said waterway and covering and communicating with said hole, said conduit having openings adjacent said fuel-bed space, whereby air from said atmospheric chamber may pass through the hole in the plate, the conduit and the openings in the conduit into the fuel-bed space.

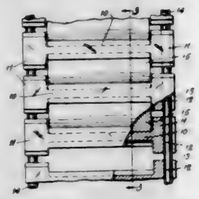
2,534,378
SAFETY CONTROL FOR SHOWER HEADS AND OTHER HOT-WATER OUTLETS
Herman Schlaich, Elmhurst, N. Y.
Application February 15, 1947, Serial No. 728,774
14 Claims. (Cl. 236—93)



2. A safety shower head comprising a casing having a wall portion of thin metal of good heat conducting properties, a valve for cutting off the supply of water to said head when the water temperature rises beyond a predetermined value, and a thermoresponsive device operatively connected to said valve, said thermoresponsive device having a long, small bore, thin walled tube

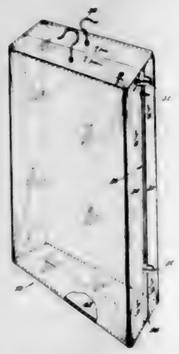
of metal in intimate thermo-conductive contact with the thin walled portion of the casing, said tube containing a thermosensitive fluid, said tube and the contents thereof and the thin casing wall portion in contact therewith constituting a thermosensitive element responding to the temperature of the water in the casing until the predetermined temperature is reached and the valve closed and presenting an extended area to the outer air so that it will be air cooled after closing of the valve.

2,534,379
BEARING
John H. Schreiber, St. Louis, Mo.
Application October 1, 1945, Serial No. 619,507
9 Claims. (Cl. 308—217)



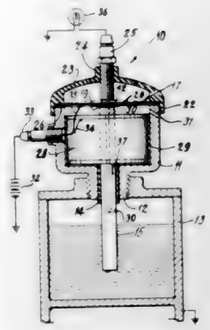
1. A bearing structure comprising a series of individual duplicated spacing members formed to provide when in assembled relation a series of rectangular cages for antifriction elements, revoluble antifriction members loosely mounted and retained in said cages, flexible separate connecting means secured to said spacing members to retain the same in spaced parallel relationship, said connecting means being adapted to be cut to provide bearing units of select lengths.

2,534,380
GARMENT BAG
Nathan L. Schwartzman, Jersey City, N. J., assignor to Protex Products Company, Jersey City, N. J., a corporation
Application August 8, 1947, Serial No. 767,405
1 Claim. (Cl. 312—3)



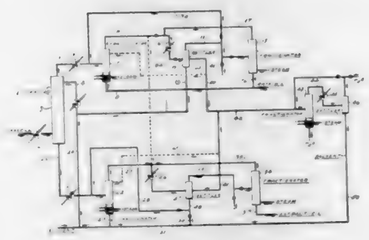
A garment bag formed of thin transparent sheet material and having side walls connected by a rear wall integral with rear edges of the side walls, said side walls having upper and lower portions projecting beyond ends of the rear wall and folded inwardly and forming flaps extending towards each other and secured together along their inner meeting edges to form upper and lower end walls having rear edges secured along the upper and lower edges of said rear wall, said side walls having portions projecting forwardly from the upper and lower flaps even with the upper and lower edges of the rear wall and folded inwardly and forming side sections of a front wall, the said front wall sections having upper and lower edges secured along front edges of the upper and lower end walls and their inner side edges spaced from each other and defining a vertically extending front opening midway the width of the front wall, a closure for the front opening consisting of a longitudinally slit tape disposed vertically between the side sections and secured along its edges to the inner side edges of the said side sections, slide fastener actuated means to close said slit, and a frame fitting in the bag against the upper end wall and carrying support-engaging hooks extending upwardly and out of the bag through openings in the upper wall.

2,534,381
HYDRAULIC BRAKE LEVEL INDICATOR
David Sebastian, Robert H. Hampton, and Bernt J. Heggen, Kings County, N. Y.
Application November 10, 1948, Serial No. 59,394
1 Claim. (Cl. 177—311)



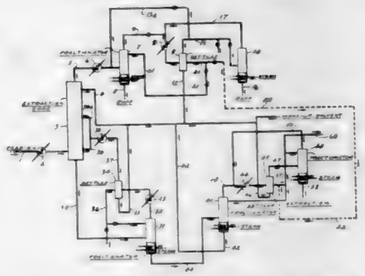
In a hydraulic brake system, comprising a metallic receptacle or master cylinder for holding an electrically conductive hydraulic brake oil for said system, an electric plug secured to said cylinder and having an insulated metallic electrode, said electrode having its lower end immersed in said liquid and electrically connected with said cylinder by said liquid, an insulated and concealed electromagnet circumscribing the upper portion of said electrode, a resilient and concealed armature mounted in said casing and having a contact at its lower face and in contacting relation with the upper face of said electrode, a circuit comprising said electrode and a source of current, electrical indicating means in said circuit, an air passage in said casing, an air vent passage in said electrode and communicating with said air passage in said casing, said air passages permitting air to pass through said casing into said cylinder, whereby when the level of said conducting liquid drops below the lower surface of said electrode, said circuit is broken, causing said electromagnet to be deenergized to permit said resilient diaphragm to move up into contacting relation with said signal circuit to produce an alarm.

2,534,382
METHOD OF REFINING OIL WITH A SOLVENT
William E. Skelton, Beacon, and George B. Arnold, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 30, 1947, Serial No. 777,071
8 Claims. (Cl. 196—14.26)



1. In the solvent refining of feed oil of the class consisting of kerosine and low boiling gas oil and containing at least a small proportion of constituents having true boiling points in the range of the solvent boiling temperature and below wherein the feed oil is subjected to contact in an extraction zone in the presence of water with a water-miscible organic solvent liquid comprising furfural having selective action as between the paraffinic and non-paraffinic constituents, extract and raffinate phases are formed respectively lean in and rich in said paraffinic constituents, said phases separately removed from the extraction zone, each of said removed phases comprising oil, solvent and water, and the removed phases separately treated to recover solvent from the oil for reuse in the extraction zone, the method comprising distilling from said raffinate phase in the presence of steam a ternary azeotrope distillate containing substantially all of the solvent in the removed raffinate phase and leaving a substantially solvent-free raffinate oil, discharging raffinate oil, separately distilling from said extract phase in the presence of steam a ternary azeotrope distillate containing at least the bulk of the extract oil in the removed extract phase and leaving the bulk of the solvent content of the removed extract phase as a residual liquid fraction, recycling resulting residual fraction to the extraction zone, separately subjecting each of said distillates to substantially complete condensation, separately subjecting the resulting condensates to settling at a temperature of about 70° to 150° in separate settling zones under conditions such that there is no substantial vaporization of water, forming in each settling zone, oil-rich, water-rich and solvent-rich liquid layers respectively, separately withdrawing liquid from each layer, recycling withdrawn solvent-rich liquids from both settling zones to said extraction zone, separately distilling residual solvent from each of said withdrawn oil-rich liquids, combining said withdrawn water-rich liquids, subjecting resulting combined liquid to a further distillation to remove excess water from residual solvent, discharging resulting aqueous distillate, and recycling resulting residual solvent recovered from the oil-rich liquids and also from the combined liquids to the extraction zone.

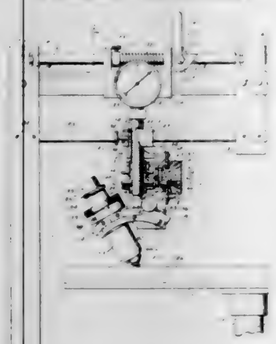
2,534,383
METHOD OF REFINING OIL WITH A SOLVENT
George B. Arnold, Glenham, and William E. Skelton, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application September 30, 1947, Serial No. 777,072
6 Claims. (Cl. 196—14.26)



1. In the solvent refining of feed oil of the class consisting of kerosene and gas oil containing at least a small proportion of naturally occurring constituents having true boiling points in the range of the solvent boiling temperature and below wherein the feed oil is subjected to contact in an extraction tower in the presence of water with a water miscible organic solvent liquid having selective solvent action as between paraffinic and non-paraffinic constituents of the oil, extract and raffinate phases respectively lean and rich in paraffinic constituents of the oil are formed, said phases separately removed from the extraction zone, each of said removed phases comprising oil, solvent and water, and the removed phases treated to recover solvent from the oil for reuse in the extraction zone, the method comprising recovering solvent from the removed raffinate phase, recycling so-recovered solvent to the extraction zone, separately distilling from said extract phase in the presence of added water in a primary fractionating zone, a distillate containing ternary azeotrope of solvent, oil and water, the oil in said azeotrope being the relatively paraffinic portion of the extract oil and amounting to a relatively minor proportion of the extract oil, and forming a residual liquid fraction comprising the main body of solvent liquid contained in the extract phase removed from the extraction zone and in addition the remainder and major portion of the extract oil, substantially completely condensing said primary distillate, subjecting resulting condensate to settling in a primary settling zone thereby forming oil-rich, water-rich and solvent-rich liquid layers respectively, said oil-rich layer comprising substantially all of said azeotrope oil, recycling said oil-rich layer to the extract phase zone of the extraction tower, recycling said solvent-rich layer to the raffinate zone of said extraction tower, recycling at least a portion of the water-rich layer as reflux to the primary fractionating zone, passing said residual liquid fraction to a second fractionating zone, subjecting it therein to distillation in the presence of water to form a second distillate of ternary azeotrope containing substantially all of the remaining extract oil, and a second residual liquid fraction comprising substantially oil-free solvent, said oil-free solvent being the bulk of the solvent removed from the extraction zone in the extract phase, returning said oil-free solvent fraction to the extraction zone, con-

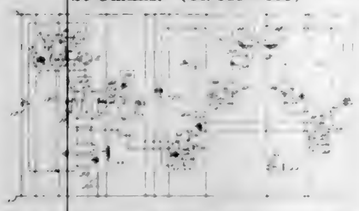
densing said secondary distillate and separately recovering extract oil and residual solvent therefrom.

2,534,384
APPARATUS FOR POLISHING OR FORMING FACETS ON GEMS, DIAMONDS, OR THE LIKE
Josef Hillel Spira, New York, N. Y.
Original application March 31, 1942, Serial No. 437,056, now Patent No. 2,393,939, dated January 29, 1946. Divided and this application January 25, 1946, Serial No. 643,301. In Brazil March 31, 1941
4 Claims. (Cl. 51—229)



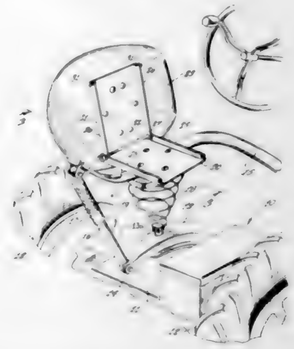
1. A machine having a skeif as the polishing surface for cutting, grinding or polishing the facets on diamonds in which a work holding dop carrier is supported over the skeif surface from a horizontal bearing shaft and is adapted to be swung up for inspection of the work contrary to the rotation of the skeif comprising in combination, a bearing block journalled on said shaft and slidable thereon, a vertical pendulous member suspended from said block to be shiftable along said horizontal shaft, stop means intermediate the horizontal shaft and skeif to restrain said dop carrier from being rotated around the horizontal shaft, said pendulous member having a vertical shaft around which said dop carrier is rotatably adjustable to orient the gem and along which the dop carrier may descend under the influence of gravity to contact the diamond with the skeif surface.

2,534,385
ELECTRICAL TIMING CONTROL
Harris I. Stanback, Milwaukee, and Ernest G. Anger, Wauwatosa, Wis., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 2, 1949, Serial No. 79,213
20 Claims. (Cl. 315—355)



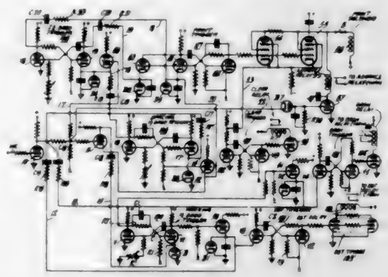
1. In an electrical timing system, a pair of capacitors, means for charging said capacitors to the same voltage, means for adjustably discharging at least one of said capacitors, said last mentioned means being capable of varying the difference in discharge rates of said capacitors, and means connected to said capacitors and responsive to the difference in voltage thereon to determine the timing period.

2,534,386
UPENDING TRACTOR SEAT
Harry J. Stewart, Tripoli, Iowa
Application February 21, 1949, Serial No. 77,457
6 Claims. (Cl. 155—51)



1. In combination with a vehicle having a seat support thereon, a plate secured in substantially horizontal position on said support, a second plate hinged to said first plate on an axis substantially longitudinally with respect to the vehicle, a seat on said second plate, said second plate being normally positioned substantially horizontally and against said first plate and being adapted to be swung about said axis through an arc of at least ninety degrees, and said plates providing limit stop means for limiting the length of said arc.

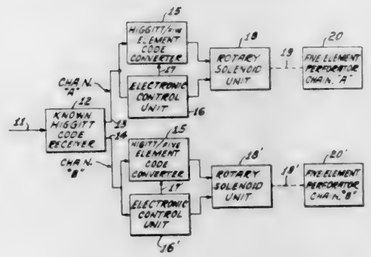
2,534,387
MORSE CODE PRINTING SYSTEM
Lewis A. Thomas, Brooklyn, N. Y., James A. Spencer, Teaneck, N. J., and Eugene R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application November 15, 1946, Serial No. 709,992
21 Claims. (Cl. 178—26)



1. A circuit arrangement for discriminating between code elements of different time durations

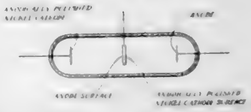
in apparatus for translating code signals, including a first self-restoring electron discharge device trigger circuit operatively responsive to the start of every mark element, a second self-restoring electron discharge device trigger circuit coupled to and under control of said first trigger circuit and operatively responsive to the trailing edge of a mark element whose duration is less than the active time of said first trigger circuit, and a third self-restoring electron discharge device trigger circuit under control of said first trigger circuit and operatively responsive to the trailing edge of a mark element whose duration is longer than the active time of said first trigger circuit.

2,534,388
AUTOMATIC CODE SIGNAL DISCRIMINATING DEVICE
Eugene Richard Shenk, Fairlawn, and James Curtis Phelps, Woodcliff Lake, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application October 29, 1949, Serial No. 124,318
11 Claims. (Cl. 178—26)



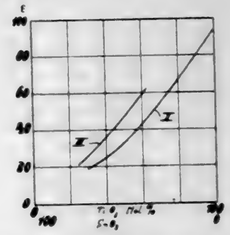
1. An electronic circuit arrangement for producing coordinated utilization pulses in response to received pulsations comprising elements of different nature representing characters of a prearranged random length code, comprising trigger, delay, interlock and gate circuits arranged in concatenated series relationship to produce a first utilization pulse corresponding to each marking element, a second utilization pulse corresponding to a marking element preceding an intercharacter space and a third utilization pulse following said second utilization pulse by a predetermined time interval, a delay circuit and a further trigger circuit arranged to produce a first complementary utilization pulse when the number of marking elements is less than a predetermined number of marking elements, a counting circuit arranged to count the number of marking elements received for each character under consideration, a trigger circuit adapted to be activated in response to said counting circuit counting said predetermined number to produce a second complementary utilization pulse, further delay, gate and trigger circuits arranged to destroy said count and to reproduce said second utilization pulse after a spacing interval longer than an interelement space, a locking circuit arranged to prevent production of an undesired one of said complementary utilization pulses when the other is required, and a control circuit arranged to extend the period of activation of said means producing said first utilization pulse upon sequential production of said second complementary, said second, and said first complementary utilization pulses.

2,534,389
VOLTAGE STABILIZING TUBE
Fredericus Antonius van Beckum, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 2, 1946, Serial No. 681,125
In the Netherlands March 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 15, 1963
1 Claim. (Cl. 250—27.5)



A voltage stabilisation tube, comprising an envelope and an electrode system therein including an electrode having a cathode surface and anode surface, the cathode surface having a mirror-like finish devoid of surface scratches and imperfections.

2,534,390
CERAMIC INSULATING MATERIAL AND METHOD OF MANUFACTURING SAME
Evert Johannes Willem Verwey and Johannes Marinus Stevels, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 31, 1947, Serial No. 725,558
In the Netherlands March 11, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 11, 1964
4 Claims. (Cl. 106—39)

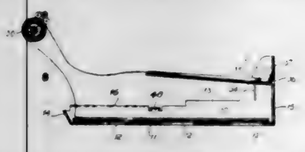


4. A method of manufacturing an insulating material suitable for use as a dielectric in a capacitor which comprises the steps of coprecipitating a mixture consisting of 40 to 75 mol. per cent of reactive tin oxide and the balance substantially TiO_2, heating the mixture at a temperature at about 1000° C., and subsequently sintering the mixture at a temperature below 1500° C.

2,534,391
PAPER SUPPLY AND RECEIVING TRAY FOR STENOGRAPHIC TYPEWRITERS
Harrison M. Von Duyke, Wilmington, Del., assignor to New Dictatype Company, Incorporated, Wilmington, Del., a corporation of Delaware
Application November 5, 1947, Serial No. 784,254
7 Claims. (Cl. 197—133)

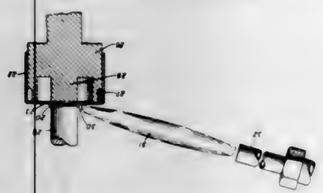
1. In combination with the frame of a typewriter machine, a device of the character described comprising a paper holding tray slidably mounted with respect to said frame, and a shelf adapted to be initially in a lowered position within

the tray, but adapted to be raised to operative position, means for holding said shelf in operative



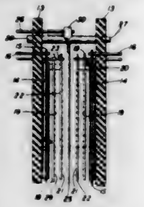
position, and means associated with said shelf for gripping the starting end of the paper.

2,534,392
METHOD OF MAKING GLASS WINDOW SEALS
Edward J. Walsh, Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 8, 1946, Serial No. 682,043
10 Claims. (Cl. 49—81)



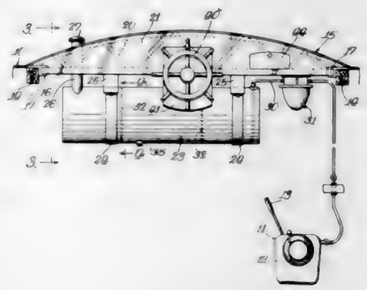
2. The method of sealing an optical window to a metallic member, comprising forming an opening in said member with a beveled surface, inserting a vitreous window in said opening to contact said beveled surface, applying pressure to said window and substantially masking the surface area of said window, heating said metal member to such a temperature that conduction heating plasticizes the exposed edge of said window to fuse the soft edge to said beveled surface, positioning a stop member below said window to limit the drop thereof in said opening, and completing the fusing operation to hermetically seal the window in said metal member.

2,534,393
ELECTRODE ASSEMBLY FOR ELECTRICAL DISCHARGE DEVICES
Edward J. Walsh, Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 26, 1948, Serial No. 46,320
8 Claims. (Cl. 250—27.5)



1. An electrode assembly for an electron discharge device, comprising a base member, studs projecting from said base member, spacers projecting from said base member, and electrodes abutted against said spacers and secured to said studs in parallel relationship with each other and said base member.

2,534,394
AUXILIARY FUEL TANK FOR MOTOR BOATS
Emil S. Anderson, Chicago, Ill.
Application July 24, 1947, Serial No. 763,253
3 Claims. (Cl. 114—0.5)

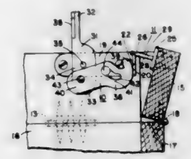


1. An auxiliary fuel tank apparatus for a boat having a cowling, said apparatus comprising an elongated bottom member adapted to extend transversely of the hull of the boat, bracket means at opposite ends of said member for seating the latter on the gunwales of the boat, bracing structure extending upwardly from said bottom member, a casing enclosing said bracing structure and having a configuration adapted to conform generally to the cowling of the boat, and a fuel tank supported from said bottom member.

2,534,395
SYNTHESIS OF HYDROCARBONS
Harold V. Atwell, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application June 12, 1948, Serial No. 32,731
8 Claims. (Cl. 260—449.6)

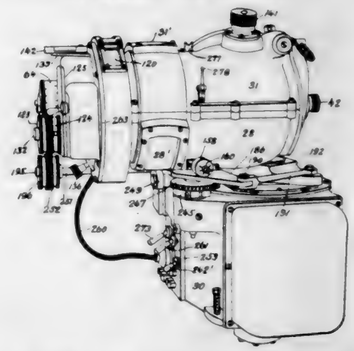
1. In the catalytic synthesis of normally liquid fractions of hydrocarbons, oxygenated hydrocarbons and mixtures thereof, by the reduction of carbon monoxide with hydrogen in the presence of an iron, hydrocarbon synthesis catalyst under reaction conditions including an elevated pressure above 50 pounds per square inch and a reaction temperature in the range of about 550–700° F. such that the reactants are converted into predominantly olefinic reaction products, the improvement which comprises suppressing the yield of normally gaseous olefins and increasing the yield of said desired liquid products by effecting contact between said reactants and said synthesis catalyst in a reaction zone under said reaction conditions while in the presence of a second catalyst substantially free from any hydrocarbon cracking activity and comprising a phosphoric acid type, polymerization catalyst, effecting the synthesis of said desired products under conditions such that the non-hydrocarbon by-product consists predominantly of water vapor with a low net production of carbon dioxide, withdrawing the effluent products from contact with the catalyst in the reaction zone, and recovering liquid fractions therefrom.

2,534,396
FASTENING DEVICE COMPRISING HOOK-AND-EYE ELEMENTS
Wallace A. Barnes, Cleveland, Ohio, assignor to The Langenau Manufacturing Company, a corporation of Ohio
Application June 24, 1949, Serial No. 101,207
1 Claim. (Cl. 292—113)



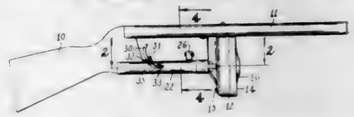
In a latching mechanism adapted for engagement with an engageable mounting plate provided with an engageable tongue extending laterally therefrom, said tongue having walls defining a catch and also having first and second opposite sides, said latching mechanism comprising a latch mounting plate having a flange extending laterally therefrom, said flange having walls including a bottom defining a recess for receiving said tongue with the first side of the tongue fitting adjacent the bottom of the recess, an actuator having first and second end portions with an intermediate portion therebetween, pivot means for pivotally mounting said intermediate portion to said latch mounting plate, said first end portion of the actuator constituting a manually operable lever and being swingable in a path on the side of the pivot means which is adjacent to said flange, said second end portion of the actuator constituting a swinging arm and being swingable in a path on the side of the pivot means which is opposite from said flange, a latch member having first and second end portions with a longitudinally extending side having a recess therein forming the inside of a hook at said first end portion for engaging said catch to hold said tongue in said recess, a pivot pin for pivotally connecting said second end portion of the latch member to said swinging arm to draw said hook into said catch, said latch member having a guide slot between said hook and said pivot pin and extending diagonally of said latch member at an angle to said longitudinally extending side, said guide slot having first and second ends with said first end of the slot located closer to said pivot pin and to said longitudinally extending side than said second end of said slot, a guide post mounted on said latch mounting plate intermediate said flange and said pivot means and extending laterally therefrom and slidably fitting in said guide slot, said guide slot and said post directing said hook into said catch upon movement of said manually operable lever, movement of said manually operable lever toward the inside of the hook and the second side of the tongue causing the hook to move toward the lever and enter the catch from the first side thereof, said manually operable lever fitting between the latch mounting plate and the latch member in the latched position of the hook and having a laterally extending tab lying adjacent the second side of the tongue and covering the hook, said tab extending laterally beyond the hook and tongue and presenting a manually engageable portion for actuating said lever free from interference with said hook and tongue.

2,534,397
SYNCHRONIZING BOMB SIGHT
Theodore H. Barth, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Navy
Application April 5, 1935, Serial No. 14,948
17 Claims. (Cl. 33—46.5)



1. A bomb sight, comprising a sighting device mounted to be rotatable in a substantially vertical plane, means to stabilize said device with respect to the vertical, variable speed means settable so to rotate said device as to retain in the field thereof a reference object moving relatively thereto; means settable to correct the speed of said variable speed means for the trail angle of a bomb including a lever calibrated in terms of altitudes and a plate over which said lever is movable, said plate having inscribed on it curves showing the characteristics of fall of a bomb at different speeds of a craft from which the bomb is dropped, the altitude calibrations on said lever being each registrable with a point on each of said curves; means settable to correct automatically the position of said sighting device for the cross-trail of a bomb and means to stabilize all the foregoing elements in azimuth.

2,534,398
TOY GUN
Mark A. Beathan, Queens Village, N. Y.
Application March 29, 1946, Serial No. 658,129
3 Claims. (Cl. 124—1)

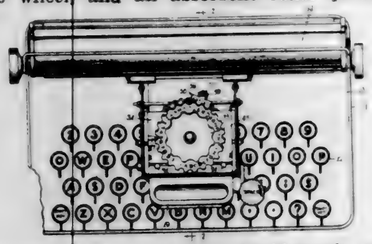


1. In a toy gun, a gun body comprising a barrel member and a stock, a cylindrical member secured to the barrel below the same and providing a chamber the axis of which is parallel to the barrel, said chamber having a forwardly directed opening, a diaphragm stretched across the chamber rearwardly of and spaced from said opening, a cylinder extending from said cylindrical member to the stock and secured to both thereof, and a plunger reciprocally mounted in the cylinder and adapted to actuate the diaphragm.

2,534,399
TOY TYPEWRITER
Samuel I. Berger, Newark, N. J.
Application November 19, 1947, Serial No. 786,903
6 Claims. (Cl. 197—47)

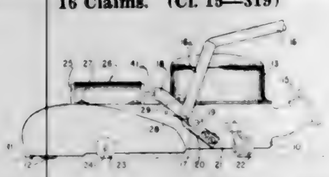
1. In a typewriting mechanism, the combination of a base, a platen structure mounted on said

base at the rear thereof, a carriage pivoted on said base, a type wheel having a substantially upright axle bearing in said carriage, means pivotally mounted on said axle to ink said type wheel, said means comprising a substantially U-shaped crank, the arms of which straddle said type wheel, and an absorbent roller pivotally



mounted on the cross piece of said crank and in engagement with the periphery of said type wheel, a dial affixed to the upper end of said axle to rotate the latter and said type wheel thereon, and a pointer rigid with said carriage and coacting with said dial to indicate the setting thereof.

2,534,400
FLUID ACTUATED ELECTRIC CIRCUIT CONTROL FOR SUCTION CLEANERS
Raymond G. Bielenberg, Berwyn, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 10, 1944, Serial No. 521,769
16 Claims. (Cl. 15—319)



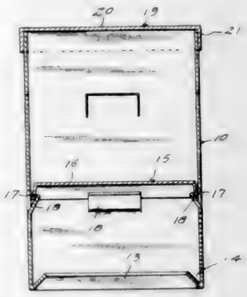
1. In a vacuum cleaner which is adapted to be moved back and forth over a surface to be cleaned and includes means for exerting a cleaning action on said surface including a motor, a fluid-actuating device comprising a fluid-pumping member actuated as an incident to the application of a cleaner-operating force in the operation of said cleaner on said surface, an actuated fluid-receiving part biased to a normal setting and operative to an off-normal setting under the pressure of fluid received from said pumping member, a fluid for operating said fluid-receiving part from its normal setting to an off-normal setting in response to sustained operation of said fluid-pumping member, contacts controlled by the movement of said actuated fluid-receiving part between said two settings, means including a circuit controlled by said contacts for controlling the operation of said motor connected to said circuit, and means to actuate said fluid-pumping member as an incident to the application of a cleaner-operating force.

2,534,401
ROLLER SKATE WHEEL
Edward G. Blaes, St. Albans, N. Y., assignor to Blaes Brothers, Inc., New York, N. Y., a corporation of New York
Application May 28, 1946, Serial No. 672,850
4 Claims. (Cl. 301—5.7)

1. A roller skate wheel comprising, in combination, a substantially cylindrical hub member consisting of molded synthetic plastic resin, roller bearing members secured in central axial alignment in said hub member, and an annular laminated wood tire secured to the outer periphery of said hub member, said tire consisting of a plurality of wood laminations of substantially

the same hardness and thickness adhesively side secured together into a unitary body with the wood grain lying in a plane transversely perpendicular to the wheel axis and with the wood grain of each lamination disposed at an angle to the wood grain of adjacent laminations.

2,534,402
COLLAPSIBLE BOX
Fletcher Blair, Atlanta, Ga.
Application January 10, 1947, Serial No. 721,239
1 Claim. (Cl. 229—6)

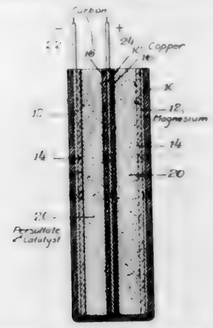


A receptacle of the kind described comprising a body formed of a plurality of angularly related side walls, an inwardly and upwardly inclined flange on the bottom edge of each of said side walls, a bottom member including a horizontal wall having side edges spaced inwardly from said side walls and depending outwardly and downwardly inclined flanges carried by said side edges, the bottom edges of said bottom member flanges being adapted to slidably bear against said side walls and to engage between said side walls and said side wall flanges when said bottom member is in its lowermost position, upwardly and inwardly extending tongues struck from said side walls and spaced from the bottom edges thereof, said bottom member flanges being adapted to engage between said tongues and said side walls when said bottom member is in a raised position.

2,534,403
PRIMARY CELL
Ivan C. Blake, Bristol, Wis., and John B. Mullen, Barrington, Ill., assignors, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application January 19, 1949, Serial No. 71,606
16 Claims. (Cl. 136—100)

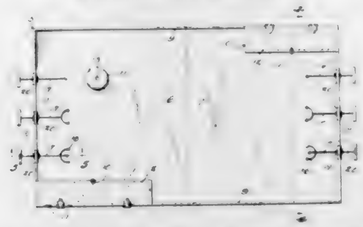
1. In a primary cell, positive and negative

electrodes and a depolarizer comprising an ioniz-



able persulfate and a silver base catalyst for the reduction of persulfates.

2,534,404
ROLLING BALL GAME APPARATUS
William Boiko, Washington, D. C.
Application February 18, 1948, Serial No. 9,198
2 Claims. (Cl. 273—118)



1. A game comprising a game table, having side and end upstanding marginal flanges, said end flanges having openings formed therein, a plurality of rods mounted in the openings for universal pivotal movement, a group of prongs extending from one end of each rod overlying the game table providing catching units, and game pieces in the form of balls having openings formed in the peripheries thereof in which the prongs of said catching units extend, holding a ball on the prongs when a game piece is directed over the table into contact with a catching unit.

2,534,405
PEANUT HARVESTER
Clifton H. Bradley, Mansfield, Tex.
Application December 10, 1945, Serial No. 633,948
2 Claims. (Cl. 55—9)

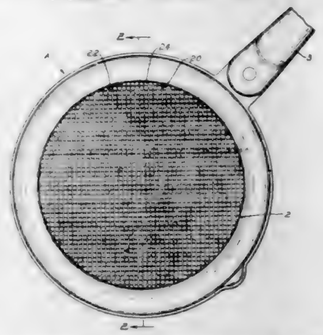
1. In a harvester for peanuts, or the like, the combination with a tractor, a wheeled frame connected to said tractor and capable of being propelled thereby, a plurality of shovels spaced to place each in a drill row, an inclined grill integral with each shovel and extending rearwardly therefrom, rotary members having radial fingers thereon cooperating with said grills capable of engaging and moving products from said drill rows along said grills and means comprising a plurality of inclined parallel agitators extending rearwardly and upwardly from said grills removing the soil from said products as same are moved therealong to be deposited on the ground in windrows in the wake of said machine.

2,534,406
COATED METAL ARTICLE AND METHOD OF MAKING THE SAME
Harry M. Bramberry, New Castle, Ind.; Harry M. Bramberry, Jr., administrator of said Harry M. Bramberry, deceased, assignor, by direct and mesne assignments, to himself
Application September 22, 1944, Serial No. 555,377
16 Claims. (Cl. 309—2)

1. An engine cylinder having a plurality of channels or grooves formed in the ring-engaging surface thereof, and having a continuous film bonded to said surface and within the channels, said film comprising a phosphate of the metal of the surface and fine graphite.

9. The method of increasing the load-carrying capacity of the wear surface of an engine cylinder and improving the compatibility between the wear surface and the piston and piston rings, which consists in relieving at least the ring-engaging part of the wear surface substantially uniformly throughout its area by removing from 15 to 60 per cent of the metal surface to a depth of at least .0002 inch, then filling the relieved areas and covering the unrelieved areas with a compound comprising an emulsion of a fine or colloidal graphite, a resin binder, phosphoric acid, a solvent for the resin binder, and an emulsifier, the ratio by weight of graphite to binder in the compound being from 2:1 to 3:1 and the ratio by weight of 100% phosphoric acid to binder and graphite being from 0.10 to 0.80, and then bonding the compound to the metal of the relieved and unrelieved areas.

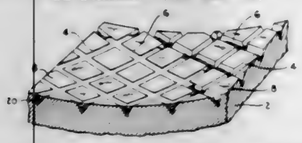
2,534,407
COOKING UTENSIL SURFACE FORM AND CHARACTER
Harry M. Bramberry, New Castle, Ind.; Harry M. Bramberry, Jr., administrator of said Harry M. Bramberry, deceased, assignor, by direct and mesne assignments, to himself
Application April 4, 1946, Serial No. 659,562
7 Claims. (Cl. 126—390)



3. A cooking utensil comprising a metal part on which food is adapted to be placed and a sub-

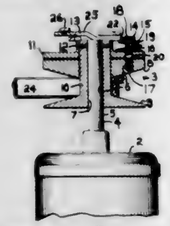
stantial part of the upper surface of which is removed to provide and define a plurality of upwardly-extending protuberances distributed substantially uniformly over said surface each of which terminates at its free end in a substantially flat plateau surface, and non-metallic, absorbent material of less heat conductivity than said part substantially filling the space between said protuberances and attached to the material of said protuberances and surface.

2,534,408
RELIEVED AND FILLED CYLINDER SURFACE
Harry M. Bramberry, New Castle, Ind.; Harry M. Bramberry, Jr., administrator of said Harry M. Bramberry, deceased, assignor, by direct and mesne assignments, to himself
Application October 17, 1947, Serial No. 780,399
11 Claims. (Cl. 309—2)



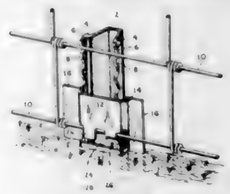
1. An engine cylinder having an internal ring travel surface 15 to 60 per cent of the area of which is removed to a depth of at least .0002 inch leaving a plurality of isolated radially inwardly extending protuberances distributed substantially uniformly throughout the removed area, and a material substantially filling the removed area and sufficiently bonded to the metal of the cylinder to resist the mechanical action of the moving piston and rings and being capable of physically retaining oil therein and being capable of remaining substantially unaffected by other materials and temperatures within the engine cylinder during normal operation of the engine.

2,534,409
AUTOMATIC V BELT TRANSMISSION
William R. Bray, Bryan, Tex.
Application November 29, 1946, Serial No. 712,945
4 Claims. (Cl. 74—230.17)



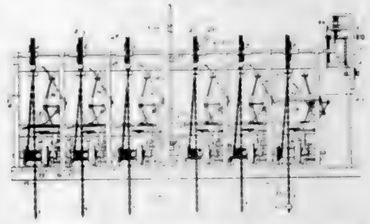
1. A V belt transmission comprising drive and driven pulleys, each of said pulleys including a pair of beveled plates forming a pulley groove therebetween, means to adjust the width of the pulley groove so as to determine the position of the V belt thereon as a function of the speed of rotation of the pulley comprising a member mounted in spaced relation to said beveled plates, a lever on said member, said lever being movable by centrifugal force, and means connecting said member to one of said pulley plates to adjust the relative position of said plates as a function of the rotative speed, said means including a threaded screw connected to said lever and passing through said member into said pulley plate, the threads on one end thereof being opposed to the threads on the opposite end thereof, whereby rotation of said lever by centrifugal force rotates said screw so as to move said connected pulley half.

2,534,410
REINFORCING PLATE FOR FENCE POSTS
Alan E. Brickman, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application September 24, 1948, Serial No. 50,909
8 Claims. (Cl. 256—47)



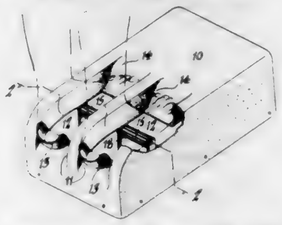
1. A reinforcing plate for a fence post having flanges extending in the direction of the fence with the outer face of the flanges being corrugated to receive a fence wire, said plate comprising a U-shaped portion, means cooperating with said U-shaped portion to form a groove at each end thereof for receiving the flanges of the post, said U-shaped portion having a transverse cut-out portion therein intermediate its ends said cut-out portion extending across the base and substantially into both legs of the U so that a fence wire can pass therethrough substantially parallel to said base of the U, and a lug on said U-shaped portion extending into the cut-out portion and adapted to be bent inwardly around said wire.

2,534,411
WIND-POWER MACHINE
John Bright, Oklahoma City, Okla.
Application May 4, 1948, Serial No. 25,058
3 Claims. (Cl. 60—8)



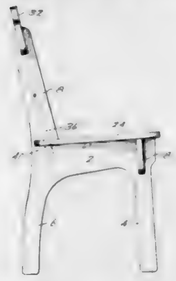
1. Apparatus for converting energy into mechanical power comprising a wind driven shaft, a power output shaft, a plurality of strands each having a depending portion, an individual weight secured to the depending end of each strand, a strand supporting shaft, a plurality of sheaves journaled on said supporting shaft, one for each strand, operatively engaging said strands for rotation by the passing of the respective strands thereover, a one-way driving connection between each sheave and said supporting shaft so arranged that said sheaves rotate said supporting shaft as the weighted ends of the corresponding strands descend, means including a speed increasing gear train and a speed governor drivingly connecting said strand supporting shaft to said power output shaft, respective winding means connected to the ends of said strands opposite the weighted ends thereof, to rewind said strands and raise said weights, means operative to hold said winding means with said strands rewound thereon, means operatively inter-connected between said strands and said winding means to release said holding means seriatim for descent of the weighted ends of said strands, means drivingly connecting said wind driven shaft with said winding means for rewinding of said strands seriatim by said wind driven shaft, and means supporting said shafts and said connecting means in operative assembly.

2,534,412
FOOT MASSAGE APPARATUS
Peter Burnett and Otto C. Buike, Tonawanda, N. Y.
Application June 28, 1948, Serial No. 35,706
6 Claims. (Cl. 128—25)



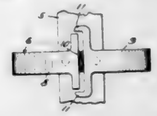
1. An apparatus for massaging feet, comprising a casing having foot-receiving portions in its top side defining heel and toe supports and openings between the latter to expose the bottoms of the feet to the interior of said casing, massaging elements mounted in said casing in the registering plane of its openings for contact with the bottom of the feet, and means operatively connected to said elements for reciprocating them fore and aft relative to the feet and simultaneously rotating them in one direction.

2,534,413
KNOCKDOWN CHAIR
Edward F. Cenis, Spokane, Wash.
Application November 18, 1946, Serial No. 710,422
1 Claim. (Cl. 155—196)



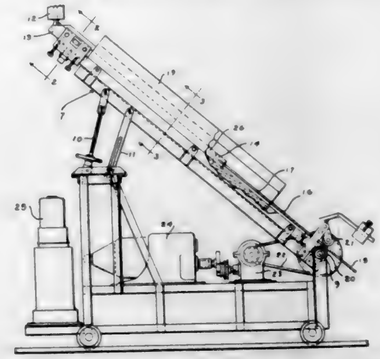
A knockdown chair comprising notched leg and back support sections, a notched seat engaging the lower portion of the back support sections and resting on the top of the leg sections, a front brace interlocked with the leg sections and having an upper dovetailed notch, a fan shaped dowel on the seat engaging the latter notch, a back having notches engaging the back support sections and a lower tongue extending through the rear of the seat and formed with a slot therethrough, and a wedge through the slot engaging the under side of the seat and comprising the key to the assembled chair.

2,534,414
GATE LATCH KEEPER
Arthur B. Cleave, Whitefish, Mont.
Application February 16, 1948, Serial No. 8,606
3 Claims. (Cl. 292—341.15)



3. In a gate latch, a keeper comprising a length of spring metal bent upon itself providing spring arms having their free ends in alignment and spaced apart providing a keeper space, lugs extending from one of the spring arms, substantially closing the ends of the keeper space, restricting vertical movement of a gate latch arm disposed within the keeper space.

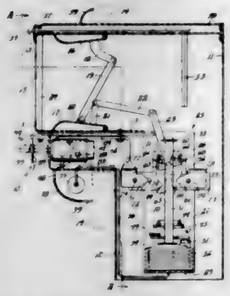
2,534,415
METHOD OF CASTING GLASS
Robert C. Cleveland and William Howard Said, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application January 11, 1946, Serial No. 640,403
2 Claims. (Cl. 49—39)



1. The method of forming glass cane which comprises flowing molten glass in an unconfined freely falling stream of relatively small diameter onto a relatively large diameter support initially arranged near enough to the stream source to prevent the stream spiralling while laterally restricting the spread of accumulated glass to a desired outline, progressively lowering the support at the speed necessary to maintain the top surface of the accumulated glass a distance from the root of the stream less than that at which it would spiral, issuing the glass as it becomes set into rigid cane into an unconfined area and controlling the downward movement of the accumu-

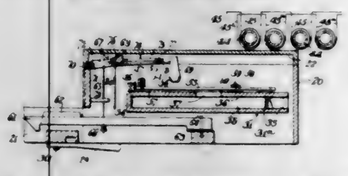
lated glass and the adjoining rigidly set cane by direct engagement of the latter whereby the formation of cane may be continued indefinitely without interruption.

2,534,416
TEMPERATURE CONTROL APPARATUS
Linvell Arnett Cox, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 28, 1946, Serial No. 700,095
6 Claims. (Cl. 236—49)



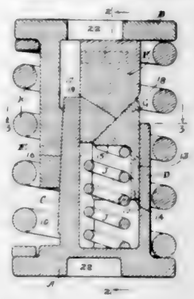
5. In control apparatus, in combination, means for controlling a medium, a reciprocable member, means for exerting force on said member in one direction, means including a pivotal lever for exerting force on said member in an opposite direction, means for shifting the pivot of said lever to vary the effect of the means including said lever on said member, additional lever means pivoted to said member, means linking said additional lever means to said controlling means, and means for selectively causing rotative motion of said additional lever means in one direction or another upon said member being moved in one direction due to a change in the resultant of the forces acting on the same.

2,534,417
MUSICAL INSTRUMENT
Christopher C. Dargis, Ridley Park, Pa.
Application December 9, 1947, Serial No. 790,520
4 Claims. (Cl. 84—404)



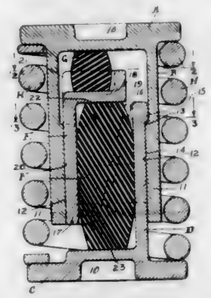
1. A musical instrument comprising a case, a resonator box decreasing in width from the bass end to the treble end and open at the back, the top wall of said box having holes in the longitudinal axial center and decreasing in size from the bass towards the treble end and the interior divided into transverse compartments decreasing in width longitudinally of said box from the bass to the treble end thereof, a frame mounted in the case above the resonator box, said frame including front, back and end rods, said front and back rods extending over slightly more than one-half of the resonator box from the end thereof and having vertical holes therethrough, flexible hanger means threaded back and forth through the holes in said rods to provide depending loops, tubular glass sound producing bars of different lengths suspended in the loop portions of said flexible hanger means, an individual rod mounted in the case above the bass or wider portion of the resonator box adjacent the forward edge thereof and having vertical holes therethrough, other flexible hanger means threaded through said last named holes to provide loops, flat glass sound producing bars of different lengths having one end of each suspended in the respective last mentioned loops, means passing through the rear ends of the flat sound producing bars and fixed in the resonator box to hold said flat bars in place, a strip of cushioning material between the resonator box and the rear ends of said flat bars, a tiltable frame hingedly connected to the front of the case above the sound producing bars and including a pair of spaced longitudinal cross rods, cushioning material on the underneath face of the outer cross rod of said tiltable frame, a playing action including hammers and their shanks pivoted to the forward portion of the case and located between the cross rods of the tiltable frame and the sound producing bars, springs connecting the individual hammer elements with the inner cross rod of said tiltable frame whereby said hammer elements may be caused to follow the movements of said tiltable frame for retracting and extending the hammer elements, and means for holding the tiltable frame in an extended position.

2,534,418
SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 3, 1949, Serial No. 74,402
4 Claims. (Cl. 267—9)



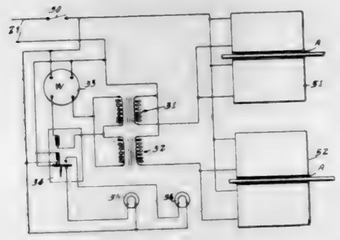
1. In a friction shock absorber, the combination with end followers relatively movable toward and away from each other; of a friction post on each follower projecting toward the other follower, said posts being in sliding frictional engagement with each other; a friction plate on one of said followers spaced laterally from the post thereof and projecting toward the other follower; a combined wedge and friction shoe movable in unison with said last named follower lengthwise of the mechanism; a friction shoe in wedging engagement with said combined wedge and shoe, said shoe and combined wedge and shoe being engaged between said plate and post of the corresponding follower in sliding frictional engagement therewith; spring means between said shoe and the follower on which said plate is carried for yieldingly opposing movement of said shoe toward said last named follower; and spring means between said followers yieldingly opposing relative movement of said followers toward each other and pressing the posts against each other.

2,534,419
SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 3, 1949, Serial No. 74,403
5 Claims. (Cl. 267—9)



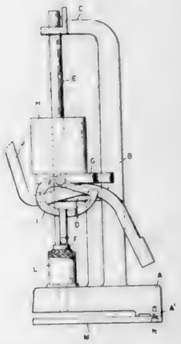
1. In a friction shock absorber, the combination with a friction casing; of a pair of friction shoes slidingly telescoped within the casing; a rubber block under lateral compression between said shoes, said rubber block yieldingly opposing relative lengthwise movement of said shoes toward each other, and being laterally expandible under lengthwise compression to force said shoes apart, against the interior wall of the casing; a second rubber block reacting between the casing and one of said shoes opposing relative lengthwise movement of said shoe and casing lengthwise toward each other; and spring means reacting between the casing and the other shoe opposing relative movement of said last named shoe and casing toward each other.

2,534,420
METHOD AND APPARATUS FOR TESTING NONMAGNETIC MATERIALS
John J. Delaney, Los Angeles, Calif., assignor of forty per cent to Francis Leroy Cook, San Diego, Calif.
Application April 10, 1945, Serial No. 587,479
3 Claims. (Cl. 175—183)



1. In an apparatus for testing non-magnetic materials, two pairs of complementary electromagnets, each pair having open poles facing each other and separated to admit samples in the gap between them, said electromagnets having a bridge with a central pole extending therefrom and an outer pole extending from said bridge and surrounding said central pole, all of said poles and bridges of all the electromagnets having substantially the same size and shape, a source of A. C. current to excite both pairs of electromagnets, the primary of a transformer in series with each pair of electromagnets, a watt-meter actuated by the differential current of the secondaries of said transformers and the A. C. line voltage, whereby known and unknown samples can be placed between the pairs of electromagnets and said watt-meter will record their similarity or dissimilarity.

2,534,421
IMPACT MOLDING MACHINE
Harry W. Dietert and Ralph E. Steinmueller, Detroit, Mich., assignors to Harry W. Dietert Company, Detroit, Mich., a corporation of Michigan
Application May 2, 1949, Serial No. 90,907
4 Claims. (Cl. 25—41)

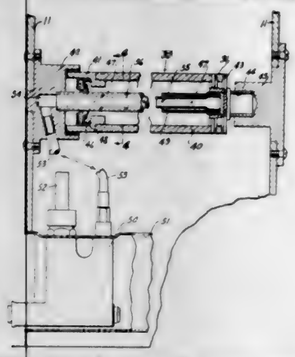


1. In a ramming machine, the combination with downwardly directed ramming means including a member of predetermined mass, and means for dropping the same through a predetermined distance to deliver its kinetic energy as an impact and a base against which the material is rammed, of a sub-base directly engaging the support for the machine, and a resilient cushion intermediate said sub-base and base for storing and returning any portion of the ramming energy effecting displacement of said base.

2,534,422
MOISTENING DEVICE FOR DUPLICATING MACHINES
Allan V. Ditty, Grosse Pointe, Mich., assignor to Arthur J. Bradford
Application May 14, 1945, Serial No. 593,647
3 Claims. (Cl. 91—49)

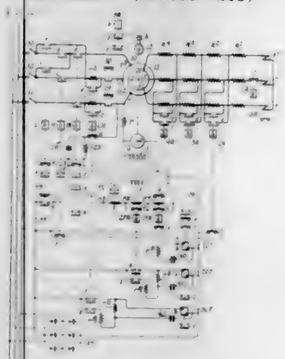
1. In a duplicating machine for making a plurality of copies from a soluble master sheet fastened to a drum platen, a means for moistening the copy sheets with a dissolving liquid prior to contact with the master sheet comprising a porous tube positioned to rotate in parallel relation with said drum in the path of the copy sheets being fed thereto, means to feed moistening liquid to the inside of said tube, comprising stationary concentric tubes axially positioned within said porous tube extending the length thereof and provided with holes spaced upward from the lower surface, means sealing the ends of said porous

tube around said concentric tubes to permit relative rotative movement, and means to feed liquid



to the inner of said concentric tubes under pressure.

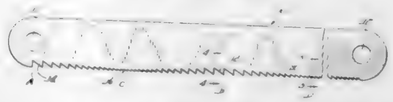
2,534,423
BRAKING SYSTEM FOR INDUCTION MOTORS
John F. H. Douglas, Milwaukee, Eric Pell, Shorewood, and Edwin W. Seeger, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 22, 1944, Serial No. 546,182
15 Claims. (Cl. 318—203)



1. In combination, an induction motor subjected to overhauling load conditions, a source of alternating current, means affording a direct current supply, and control means for connecting the primary of said motor to said alternating current source for causing said motor to exert torque in reverse directions selectively, said control means including means also affording connection of said motor primary selectively to said direct current supply means alone for dynamic braking or to both said direct current supply means and said alternating current source, with certain terminals of said motor primary each serving for both an alternating and direct current connection, to produce a torque of said motor and also to limit the speed of said motor under overhauling load conditions.

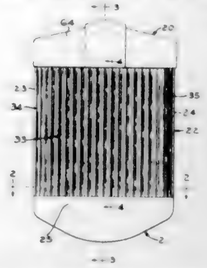
14. In combination, an induction motor, a source of alternating current, means affording a direct current supply, and control means affording connection of the motor primary to said alternating current source with certain terminals of the motor primary connected to said direct current supply means, said control means comprising resistors for such of the alternating current connections as lead to the motor terminals supplied with direct current, said resistors being external of the direct current connections, and said control means also comprising means selectively to interrupt the alternating current connections or the direct current connections while maintaining the other of said connections and to shunt said resistors while said motor is connected to said alternating current source only.

2,534,424
HACKSAW BLADE
Ernest Dryden, Toronto, Ontario, Canada
Original application November 17, 1944, Serial No. 563,819. Divided and this application February 14, 1947, Serial No. 728,461
2 Claims. (Cl. 29—95)



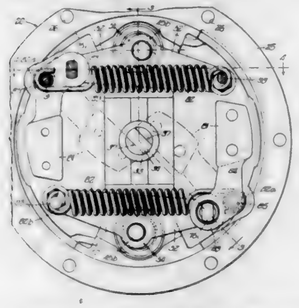
1. As an article of manufacture, a saw blade having a plurality of teeth along its cutting edge, said teeth consisting of a group of coarse pitch teeth, a group of fine pitch teeth positioned adjacent to one extremity of and gradually merging with said coarse pitch teeth, another group of coarse pitch teeth adjacent the opposite extremity of said group of fine pitch teeth and gradually merging therewith, and another group of fine pitch teeth merging with and positioned adjacent the opposite extremity of and gradually merging with said second mentioned group of coarse pitch teeth, the base of said teeth in the aggregate defining a wavy line extending longitudinally of the blade, whereby to minimize the extent of stroke required to operatively engage any of said teeth with a work piece.

2,534,425
VEHICLE RADIATOR GRILLE ASSEMBLY
Wallace H. Du Shane, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application April 23, 1948, Serial No. 22,732
20 Claims. (Cl. 180—68)



1. A vehicle radiator grille assembly, comprising: an upper shell having a generally horizontal, substantially flat under surface; a lower shell spaced below the upper shell and having a generally horizontal, substantially flat top surface; a vertically corrugated grille member extending vertically between said under and top surfaces; an upper grille-carrying member disposed below the under surface of the upper shell and having pockets therein to receive the upper part of said corrugated grille member; a lower grille-carrying member mounted on the top surface of the lower shell and having pockets therein to receive the lower part of said corrugated grille member, said pockets having bottoms supporting said grille member; means securing the upper shell to the upper grille-carrying member; and means securing the lower grille-carrying member to the lower shell.

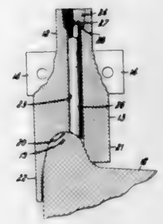
2,534,426
CENTRIFUGAL CLUTCH
Clarence M. Eason, Waukesha, Wis., assignor to Industrial Clutch Corporation, Waukesha, Wis., a corporation of Wisconsin
Application March 5, 1947, Serial No. 732,414
9 Claims. (Cl. 192—105)



1. In a centrifugal clutch, the combination of a driving clutch element, a driven clutch drum, arcuate clutch shoes having anchored ends pivotally carried by said driving element and having swinging ends adapted to swing outwardly into clutching engagement with the interior of said drum, resilient mounting means between said driving clutch element and the anchored ends of said clutch shoes for permitting a limited degree of floating movement of said anchored ends relatively to said driving clutch element adjusting eccentrics carried by said driving element for pivotally supporting the anchored ends of said clutch shoes, links pivotally supported on said adjusting eccentrics, actuating eccentrics connecting said links with the swinging ends of said clutch shoes whereby the clutch engaging pressure is transmitted from the swinging end of each shoe to the pivoted end of the opposite shoe by virtue of the limited degree of floating movement of the pivotally anchored end permitted by said resilient mounting means, adjusting means for rotating said adjusting eccentrics, centrifugally responsive clutch engaging levers operatively connected with said actuating eccentrics, and opposing springs connected to oppose clutch engaging motion of said levers.

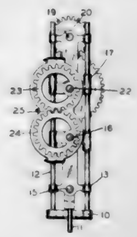
2,534,427
OILER DEVICE
Frank William Edwards, Chicago, Ill., assignor to The Ohio Injector Company of Illinois, Chicago, Ill., a corporation of Illinois
Original application June 10, 1947, Serial No. 753,772. Divided and this application August 30, 1948, Serial No. 46,857
2 Claims. (Cl. 184—3)

1. In an oiler device, an oiler shoe for cooperation with a part to be oiled and having means for connecting it to a source of oil, said shoe having an oil feeding passage extending therethrough from said connecting means to said part to be oiled, and a tubular feed member substantially equal in length to the length of said passage positioned within said passage and having an inlet end within said shoe adjacent to said connecting means and in open communication with the source of oil, and its tubular formation



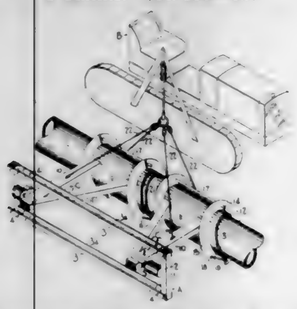
serving to provide with said connecting means a continuous oil passage between said source and the part to be oiled, said feed member being of less outside diameter than the diameter of the feeding passage of said shoe and thereby forming in association with the wall of said passage three normally concurrently functioning surfaces for directly conducting lubricant from said source to the part to be oiled.

2,534,428
POWER JACK FOR PUMPS AND THE LIKE
Ross T. Cruikshank, Minneapolis, Minn., assignor of one-half to Carl A. Anderson, Minneapolis, Minn.
Application December 23, 1946, Serial No. 717,840
3 Claims. (Cl. 74—25)



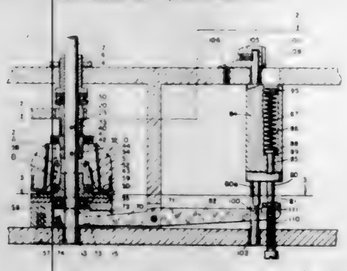
1. A reciprocable pump jack comprising a supporting structure, a drive shaft adapted to have rotary power applied thereto and journaled on said structure for rotation on a horizontal axis disposed in fixed relation to said structure, a rotary toothed gear wheel eccentrically fixed to said shaft for eccentric rotation about said fixed axis, a second toothed gear wheel of similar diameter to said first wheel and meshed therewith to be rotated thereby, a stub shaft eccentrically mounted in said second wheel to be reciprocated when said rotary wheels are rotated and adapted to apply reciprocating motion to a member to be reciprocated, said two gear wheels having aligned bearing races formed therein, a rigid gear wheel mounting member mounted around said races to journal the entire periphery thereof and positively hold said gear wheels in predetermined meshed relation.

2,534,429
PIPE BENDING MACHINE
Bernard V. Elliott, Bartlesville, Okla., assignor to H. C. Price Co., Bartlesville, Okla., a corporation of California
Application November 6, 1946, Serial No. 708,106
3 Claims. (Cl. 153—32)



1. A machine for bending pipe and the like comprising a supporting framework, a pair of power units mounted on said framework, a bending arm secured to and actuated by each of said power units, work clamping means on said bending arms, said means comprising opposed pipe sections, a reinforcing collar segment at each end of each section, the corresponding collars of each pair being offset laterally from one another with the side, meeting faces thereof overlapping each other at one end, a bolt passing through said overlapping portions of each segment to serve as a pintle therefor, and means at the opposite ends of said segments for latching them together.

2,534,430
SPEED CONTROL
Henry N. Fairbanks, Beverly Hills, and Victor H. Eisler, Hollywood, Calif., assignors to Mitchell Camera Corporation, West Hollywood, Calif., a corporation of Delaware
Application March 9, 1946, Serial No. 653,410
16 Claims. (Cl. 188—187)



1. A speed control mechanism, embodying a pair of members mounted for rotation about an axis and for relative movement toward and from each other along the axis, means limiting the movement of one of said members axially in a direction away from the other, a weighted linkage interconnecting the two members and comprising two interpivoted links whose outer ends are pivoted respectively to the two members, the interpivot of the two links lying radially within a line joining the two end pivots so that outward swinging movement of the links tends to move the other of said members axially away from the limited-movement member, a friction surface associated with said other member for rotation and axial movement therewith and facing outwardly away from the limited-movement member, and an inwardly facing and relatively fixed friction surface arranged to be contacted by the rotating friction surface upon outward movement thereof, said fixed friction surface being arranged to limit the outward movement of the movable friction surface and its associated member to a position in which the linkage pivots bear the stated relation to each other, means for adjustably setting the movement limiting means of the limited-movement member to adjustably set the axial spacing between the limited-movement member and the relatively fixed friction surface so as to adjust the interlink angle at which the rotating friction surface moves axially into contact with the fixed friction surface, and yielding means for applying a predetermined pressure to the axially movable member tending to force it and its associated friction surface toward the limited-movement member and away from the fixed friction surface, said means including a plurality of springs and means for independently setting the pressure exerted by each of the springs, and shiftable mounting means for the several springs whereby their pressures may be selectively applied to the axially movable member.

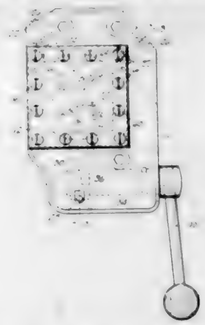
2,534,431
STRING TENSIONING MEANS
John Ferriera, Providence, R. I.
Application March 26, 1948, Serial No. 17,239
2 Claims. (Cl. 84—312)

1. In a stringed musical instrument having a plurality of strings, a plurality of pins reciprocably mounted, each operable upon one of said strings to control the tension and consequently the tone thereof, a lever for each of said plurality of pins, a shaft on which said levers are mounted, means for rotating said shaft, a plurality of said levers being secured to said shaft to simultaneously move a plurality of pins and change the tone of a plurality of strings.

2,534,432
TOOL TURRET
Russel E. Frushour, South Bend, Ind., assignor to South Bend Lathe Works, South Bend, Ind., a corporation of Indiana
Application July 9, 1945, Serial No. 603,892
1 Claim. (Cl. 29—49)

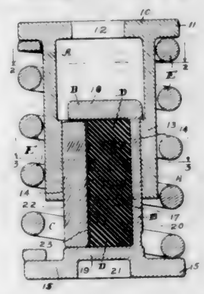
A turret comprising a base having a vertical aperture and a pair of spaced abutments projecting into said aperture, a turret head bearing upon said base and having a depending portion freely rotatable in said aperture, said depending portion having a frusto-conical peripheral portion with its large diameter end lowermost and the inner end faces of said abutments conforming to the frusto-conical peripheral contour of said depending portion, and locking means carried by said base and including a plunger shiftable radially into said aperture on an axis displaced more than 90 degrees from both abutments and having a tapered end, said depending portion having a plurality of radial tapered indexing sockets

adapted to receive the tapered end of said plunger, the axis of said plunger being located in a plane



slightly below the horizontal plane in which the axes of said sockets lie.

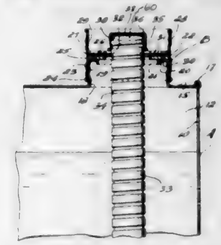
2,534,433
SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
Henry Fuchs, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 14, 1949, Serial No. 70,959
5 Claims. (Cl. 267—9)



1. In a friction shock absorber, the combination with a friction casing having a follower at its outer end; of a pair of friction shoes slidingly telescoped within the casing, one of said shoes having a follower at its outer end, and a stop flange at its inner end, the other of said shoes having one end thereof abutting said last named follower and its other end engaged in back of said stop flange; spring means bearing at opposite ends on said followers for yieldingly opposing relative movement of said followers toward each other lengthwise of the mechanism; and a rubber pad under lateral compression interposed between said shoes for spreading the same apart into tight frictional engagement with the interior of the casing.

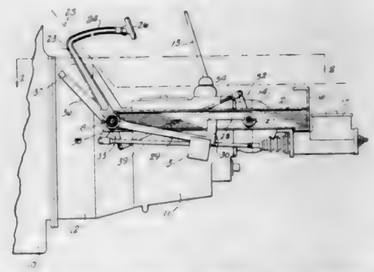
2,534,434
DISPENSING ATTACHMENT FOR CONTAINERS, INCLUDING A REVERSIBLE SPOUT
Samuel B. Gersten, Middle Village, N. Y., assignor to Liberty Industries, Inc., Brooklyn, N. Y., a corporation of New York
Application July 15, 1948, Serial No. 38,905
1 Claim. (Cl. 222—539)

A pouring closure for a container comprising a double threaded end tubular member consisting of two screw caps soldered back-to-back, each with a sealing cork annulus and an elongated threaded pouring spout extending through and sealed to said member, said spout having a short end projecting on one side of said tubular member and a long pouring end projecting on the



other side of said tubular member, the tubular member being reversible to cause the long end to extend away from said container in pouring position, and a threaded cap to fit on the short end to seal the spout and the container when the short end projects from said container in non-pouring position.

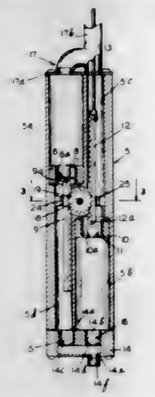
2,534,435
CLUTCH AND BRAKE CONTROL FOR AUTOMOTIVE VEHICLES
Sudhish G. Ghurye, Chapel Hill, N. C.
Application October 14, 1949, Serial No. 121,356
In India October 5, 1948
3 Claims. (Cl. 74—478)



1. Manually operated means for sequentially releasing a vehicle clutch and applying vehicle brakes comprising a supporting frame, shafts journaled in said frame in spaced apart and substantially parallel relationship to each other, a manually movable lever pivotally mounted intermediate its length on one of said shafts, means biasing said manually movable lever to a predetermined rotational position relative to said one shaft, a bell crank lever pivotally mounted intermediate its length on the other of said shafts for rotational movements about the axis of the latter, an arcuately curved finger on one end of said manually movable lever engageable with the distal end of one leg of said bell crank lever to rotate said bell crank lever to a predetermined angular extent upon movement of said manually movable lever to a predetermined angular extent in one direction from said predetermined position and to then hold said bell crank lever against return movement during further movement of said manually operated lever in the same direction, means extending from the other leg of said bell crank lever for connecting the latter to a vehicle clutch operating mechanism, and a vehicle brake operating lever rotatably mounted on said one shaft and having an offset engageable by said

manually movable lever at the end of said predetermined extent of angular movement of the latter to move said brake operating lever in a brake operating direction upon continued movement of said manually movable lever beyond said predetermined angular extent.

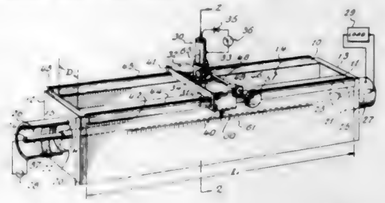
2,534,436
DOUBLE-ACTION PUMP
Glenn Dean Gibson, Minneapolis, Minn.
Application May 13, 1948, Serial No. 26,779
5 Claims. (Cl. 103—183)



1. A double acting pump comprising a unitary housing having a pair of cylinders formed therein, disposed with their axes in parallel relation, one of said cylinders being located adjacent one end of said housing and the other of said cylinders being located adjacent the opposite end of said housing, said casing having a discharge passage communicating with the delivery ends of said cylinders and having an intake passage communicating through branches with the intake ends of said cylinders, check valves disposed in the branches of said intake passage, pistons mounted for reciprocation in said cylinders and each having a liquid passage therethrough and a valve adapted to close said passage when the piston is moved towards the discharge end of its stroke, means extending beyond said housing for reciprocating one of said pistons and means mounted in said housing for interconnecting said pistons to drive said pistons in opposite directions, the inner ends of said cylinders being spaced apart in a direction longitudinally of said housing and said last mentioned means comprising a pinion interposed in said housing between the inner ends of said cylinders and longitudinal rack bars connected with each of said pistons and intermeshed with said pinion.

2,534,437
ULTRA HIGH FREQUENCY TRANSMISSION LINE SYSTEM
Edward L. Ginzton, Menlo Park, Calif., assignor, by mesne assignments, to The Sperry Corporation, a corporation of Delaware
Application March 30, 1949, Serial No. 84,457
5 Claims. (Cl. 178—44)

4. An ultra-high-frequency transmission line for electromagnetic energy comprising two coaxial line sections having substantially the same cross-sectional dimensions, two mutually spaced electrically conductive members having opposed surfaces, means connecting each of said members between the outer conductors of said coaxial line sections, and an electrical conductor connected between the inner conductors of said coaxial line sections and extending longitudinally between said surfaces, wherein the spacing be-

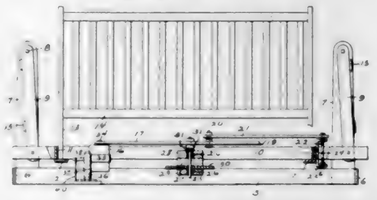


tween said two members having opposed surfaces is determined generally by the conformal transformation of one of the coaxial line sections in a Z-plane which is at right angles to the length of the coaxial line section to a transformed line in a W-plane which is at right angles to the length of the transformed line, which is expressed by the equation

$$Z = R_0 \tan \frac{\pi W}{2D}$$

where Z is the radius vector in the Z-plane from the center of said one coaxial line section to the surfaces constituting the coaxial line, W is the radius vector in the W-plane from the center of the transformed line to the surfaces constituting the transformed line, D is the spacing between the two members having opposed surfaces, and R_0 is the inner radius of the outer conductor of said one coaxial line section in the Z-plane.

2,534,438
CRADLE HAVING A REMOVABLE CRIB
William O. Gosselin, Ashland, Wis.
Application July 9, 1947, Serial No. 759,742
3 Claims. (Cl. 5—109)

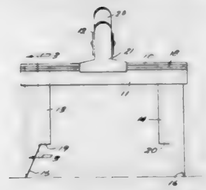


1. A device of the character described comprising a fixed base frame, a vertically disposed electric motor supported thereon, a pulley upon the shaft of said motor, a relatively large horizontally disposed disc rotatively mounted upon the base frame, a belt extending about said pulley and about the periphery of said disc, a rigid, rectangular crib carrying frame, comprising portions positioned to freely receive and support the legs of a freely removable baby's crib, swinging links by which the crib carrying frame is mounted for oscillation with respect to the fixed frame, said crib carrying frame comprising transverse connecting members extending between longitudinally extending side frame members of the said crib carrying frame, a pivot mounted upon one of said transverse members, a connecting rod engaged with said pivot and a wrist pin carried by said disc with which the other end of said connecting rod is pivotally engaged.

2,534,439
SHIELDED APPLICATOR
Lou B. Grandjean, San Francisco, Calif.
Application December 26, 1944, Serial No. 569,857
5 Claims. (Cl. 15—131.05)

1. An applicator, including: a handle; means having an applying surface on said handle; a shield member including a back wall and a side wall, said member being mounted on said handle and swingable relative thereto from shielding position adjacent said means with said side wall projecting beyond said applying surface and said back wall engaging one side of said handle to position separated from said means, whereby said surface may be coated with the material to be applied; and a member connected to said shield member and adapted to be deformed into engagement with the other side of said handle when said shield member is in shielding position.

2,534,440
BEAM COMPASS
Antonio Guiñez, New York, N. Y., assignor of forty per cent to Joseph Blasig, New York, N. Y.
Application July 30, 1948, Serial No. 41,434
1 Claim. (Cl. 33—158)

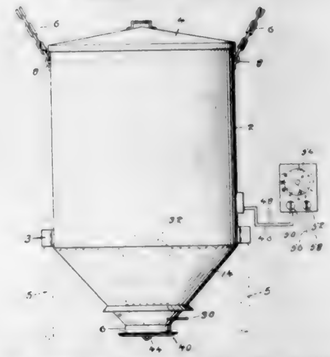


An instrument comprising parallel bars, a spring clip having gripping jaws and positioned with the ends of the jaws in engagement with opposite surfaces of the parallel bars for resiliently urging the bars together, and bars with flanges on one of the ends thereof and points on the other carried by the parallel bars and positioned with the flanges thereof frictionally secured between the parallel bars.

2,534,441
METHOD OF AND COMPOSITION FOR INHIBITING FOAMING IN STEAM BOILERS
Lewis O. Gunderson, Park Ridge, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application March 19, 1945, Serial No. 583,647
8 Claims. (Cl. 252—321)

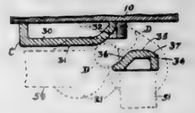
1. The method of generating steam from a boiler water having a tendency to foam on boiling which comprises dispersing into said water ethylene diamine diacylated with a fatty acid containing at least twelve carbon atoms in an effective amount up to 50 parts per million of boiler water, together with a substance selected from the group consisting of redwood bark dust, a water dispersible alkali derivative of redwood bark dust, a water dispersible alkali derivative of redwood bark fiber, and a water dispersible alkali derivative of redwood bark, in an amount equivalent to a ratio of one pound of the redwood bark material for every 2500 to 25,000 gallons of boiler water, and heating the resulting aqueous dispersion to the boiling point, the substances dispersed into said water functioning to inhibit the tendency of said water to foam on boiling.

2,534,442
GRAIN FEEDER FOR POULTRY
Harry A. Harvey, Niagara Falls, N. Y.
Application October 7, 1948, Serial No. 53,368
2 Claims. (Cl. 119—56)



1. In a poultry feeder, a cylindrical container for holding poultry feed therein, a lid removably supported on said container, a shroud having a frusto-conical shape secured to the lower end of said container, said shroud terminating in a vertically disposed annular collar, a horizontally disposed plate extending across the bottom of said shroud and secured thereto, there being a plurality of openings in said plate, a disc rotatably supported above said plate and provided with openings adapted to be moved into and out of registry with the openings in said plate, a handle connected to said disc for rotating the latter, a motor supported by said plate and secured thereto, a vertically disposed shaft having its upper end connected to said motor, and a horizontally disposed shelf connected to the lower end of said shaft.

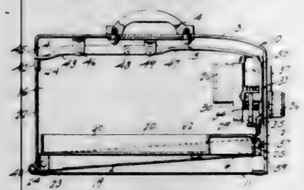
2,534,443
ACTUATING MEANS FOR THROWOUT CRANK ARMS OF SLIDING DOORS
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application March 18, 1948, Serial No. 15,633
3 Claims. (Cl. 20—23)



1. In a door construction for a container having a wall provided with a door opening, the combination with a door adapted to close said opening; of guide means on the container wall extending lengthwise of the same; a carrier slidable lengthwise on said guide means; a door supporting crank arm journaled at one end on the carrier and at the other end on the door; a cam lug on said arm at the end thereof which is journaled on the carrier, said lug being eccentric to the axis of rotation of said arm on the carrier; and a cam plate fixed to the wall of the car, said

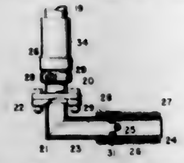
cam plate having a cam surface inclined away from said wall, said cam surface being in the path of movement of said cam lug and engageable thereby as the door is slid to closed position to swing the crank arm inwardly toward the car wall to a position substantially parallel to said wall, said cam plate having a straight guide surface parallel to the car wall with which said cam lug is engageable to hold said arm against outward swinging movement during final closing of the door.

2,534,444
AUTOMATIC PET FEEDER
Fredrick A. Hedwall, Sacramento, and Emil Meyer, San Francisco, Calif.
Application February 15, 1949, Serial No. 76,453
15 Claims. (Cl. 161—10)



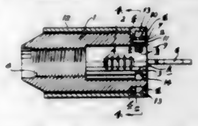
1. A pet feeder comprising; a housing having a door at one end, and means for latching said door in closed position; a track within said housing and sloping downwardly toward said door, a tray for food within said housing and vehicularly operating in said track, and timing means adjustable at will for keeping said door latched for a selected time period and releasing said door to open at the termination of said period and releasing said tray for projection from the housing; said track comprising a track for each side of the housing and having each an upper flange and a lower flange, with the forward terminal portion of the lower flange cut away, and said tray having two relatively closely related wheels on each side near the rearward end with the forward ones of said wheels mounted in a plane below the plane of the rearward ones of said wheels to maintain the tray level while supported by the sloping tracks, and with the forward wheels dropping over the forward end of the lower flange to drop the tray onto the open door and lock the wheels to prevent complete removal of the tray except by raising the front of the tray.

2,534,445
WATER INJECTION DEVICE FOR CONCRETE MIXERS
Louis G. Hilkemeier, Greenfield, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 11, 1949, Serial No. 70,174
3 Claims. (Cl. 259—168)



1. Water injection means for concrete mixers comprising a laterally apertured conduit having one end closed and the other end communicating with a source of water under pressure, and a sleeve of elastically deformable material enveloping the section of the conduit in which the aperture is disposed, said sleeve having a snug fit throughout its length on said conduit except in the region of said aperture where it has an annular inner recess surrounding the apertures, so that the water pressure may be exerted on sufficient area of the sleeve surrounding the aperture to produce radial expansion of the sleeve and consequent axial movement of that portion of other portions of the sleeve during discharge of water requisite to loosen material lodged between the sleeve and the conduit.

2,534,446
LOCKING DEVICE FOR NUTS AND BOLTS
Lewis F. Howard, Fort Worth, Tex.
Application April 30, 1946, Serial No. 666,146
3 Claims. (Cl. 70—231)



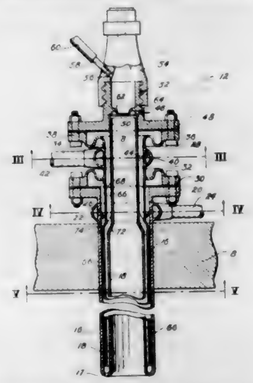
1. In a locking device for nuts, in combination with a body having a central bore threaded at one end to receive a bolt, a lock arranged in the said bore opposite the said threaded portion, a cylindrical portion at one end of the said body forming a shoulder exteriorly thereof and having a transverse slot intermediate its ends, a ferrule having an annularly grooved internal rib at one end encasing the said body and adapted for free rotation thereon, the said rib engaging the said shoulder, a cam pivoted in the slot in the said cylindrical portion and adapted to normally project into the groove in the said rib, and means forming a part of the said lock operating the said cam.

2,534,447
COPOLYMERS OF ISOBUTYLENE AND AN ESTER DERIVED BY ESTERIFYING ABIETYL ALCOHOL AND AN α,β-ETHYLENICALLY UNSATURATED CARBOXYLIC ACID
George E. Hulse, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 24, 1948, Serial No. 67,248
15 Claims. (Cl. 260—27)

1. A copolymer of isobutylene and an ester derived by esterifying an abietyl alcohol with an α,β-ethylenically unsaturated carboxylic acid, said copolymer being linear in character and containing one molecule of the ester and one molecule of isobutylene per copolymer unit, said abietyl alcohol being a member of the group consisting of abietyl alcohol, dihydroabietyl alcohol, tetrahydroabietyl alcohol, dehydroabietyl alcohol, and mixtures of such alcohols.

2,534,448
FLUID-COOLED TUBE FOR SIGHTING A FURNACE PYROMETER
Emil Jantsch, Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application July 11, 1945, Serial No. 604,409
14 Claims. (Cl. 257—254)

1. A tubular heat exchanger comprising a double walled tube having an outer wall and an inner wall spaced radially therefrom to provide a heat exchanging medium receiving space between them, means joining the outer and inner walls of the tube at one end thereof to form a fluid tight joint, a dividing tube in the space between the tube walls to separate the space into an inner and an outer compartment each extending longitudinally of the tube, said tube extending to a point in the region of but somewhat spaced from the juncture between the inner and outer tube walls where the compartments join, means substantially to divide the inner and outer compartments into generally axially extending subcompartments, means to direct fluid into one of the compartments in a direction toward the closed end of the double walled tube in such manner as to provide a predetermined quantity of fluid at a predetermined velocity in each sub-compartment thereof, and means to exhaust the fluid from the other compartment in a direction away from



the closed end of the double walled tube in such manner as to provide a predetermined quantity of fluid at a predetermined velocity in each subcompartment thereof, said last two named means comprising means at a point remote from the joined ends of the double walled tube to form a seal between the outer tube wall and the dividing tube, means at a point remote from the joined ends of the double walled tube joined to the dividing tube to form a seal between the inner tube wall and the dividing tube, a manifold about the outer tube wall near the first sealing means, a series of passages through the outer tube wall within the manifold communicating with the outer compartment, a second manifold about the means joined to the dividing tube, and a series of passages through the means joined to the dividing tube within the second manifold communicating with the inner compartment.

2,534,449
REVERSIBLE JAW FOR METER BOXES AND THE LIKE
Ernest G. Johansson, Belmont, Mass., assignor to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application March 3, 1949, Serial No. 79,382
8 Claims. (Cl. 175—220)

1. A connection box for an electric meter of the type having a blade for completing the circuit thereto comprising a casing, an insulating block secured to said casing, a conducting strap mounted on said block having an aperture therein and a plurality of recesses equally distanced from the axis of said aperture, and a jaw assembly adapted to receive said blade including a jaw member having a bottom portion abutting the strap with an aperture aligned with said strap aperture, a bolt having a body projecting through said aligned apertures, and a nut having a threaded aperture for engaging the

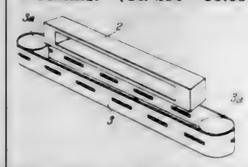
end of the bolt projecting through the aperture in said jaw bottom portion and a tab for selectively engaging one of said recesses whereby the jaw can be positioned with respect to the strap to accommodate the blade of the meter.

2,534,450
CONTINUITY TESTER
Joseph R. Kadilak, Midland, Pa.
Application March 5, 1948, Serial No. 13,308
1 Claim. (Cl. 175—183)

A continuity tester for electrical circuits comprising an elongated transparent tubular handle formed of electrical insulating material and having a cylindrical bore extending throughout substantially its entire length and through one end of the handle, said bore being screw threaded at its end extending through said end of the handle, an elongated metal shank secured to the end of the handle remote from the screw threaded end of the bore and extending longitudinally beyond the handle and having its inner end projecting into the bore of the handle, an elongated transparent screw threaded plug engaging within the screw threaded end of the bore and formed of electrical insulating material and having its outer end substantially flush with the adjacent end of the handle, the screw threaded plug being provided in its outer end with a central longitudinal elongated recess having its inner end terminating near the longitudinal center of the screw threaded plug, an elongated metal insert mounted within said elongated longitudinal recess of the plug and extending for the entire length of such recess and having its outer end disposed substantially flush with the adjacent ends of the plug and handle, the metal insert having a central longitudinal recess in its outer end, an elongated flexible insulated conductor having one end anchored within the recess of the metal insert, the transparent screw threaded plug being provided in its inner end remote from the metal insert with a central longitudinal screw threaded opening, a light bulb disposed within the screw threaded opening of the plug and including a metallic screw threaded base engaging the screw threads of the plug opening and forming one terminal of the light bulb, the metallic screw threaded base of the light bulb extending longitudinally beyond the inner end of the transparent plug and into the bore of the handle, the light bulb including a second terminal carried by the end of the metallic screw threaded base within the bore of the

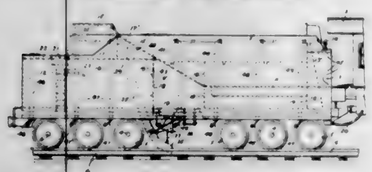
handle, a flashlight battery mounted within the bore of the handle and having one end contacting said second terminal of the light bulb and its other end contacting the inner end of the shank projecting into the bore of the handle, a conducting ring disposed adjacent to the inner end of the transparent plug and surrounding the metallic screw threaded base of the light bulb and disposed in electrical contact therewith, and a wire connected with the conducting ring and extending longitudinally through the transparent plug and metal insert and embedded within the plug and insert and having its end remote from the light bulb leading into the recess of the metal insert and electrically connected with said flexible insulated conductor.

2,534,451
DIRECTIONAL AERIAL
Théo Kahan and Albert Waché, Paris, France, assignors to Radio Industrie S. A., Paris, France, a society of France
Application May 26, 1947, Serial No. 750,408
In France May 31, 1946
3 Claims. (Cl. 250—33.63)



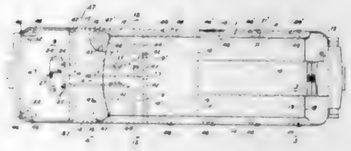
1. In combination, a fixed wave guide of the hollow type, provided with a plurality of slots in its wall, said slots being positioned to ensure directional radiation of electromagnetic waves and means for periodically displacing the whole of said slots in a direction parallel to said wall physically relative to said wave guide.

2,534,452
WATER SUPPLYING AND DISTRIBUTING MEANS FOR LOCOMOTIVE TENDERS
Carl F. Kantola, Dumont, N. J.
Original application July 6, 1944, Serial No. 543,709. Divided and this application August 16, 1946, Serial No. 691,139
18 Claims. (Cl. 105—236)



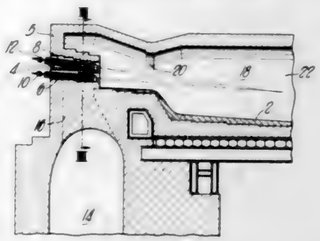
1. In a locomotive tender, a fuel space, a rear water chamber, a front water chamber, side water chambers extending longitudinally of the tender between the rear water chamber and the front water chamber, a water take-up scoop having a forwardly projecting discharge nozzle arranged in the region of the upper forward portion of the rear water chamber, a deflector positioned in front of said nozzle and extending below the level thereof and having sloping surfaces relatively arranged to break the force of the stream of water issuing from the nozzle and to direct the water downwardly into the rear water chamber and laterally toward the side water chambers, and a series of vertical vent pipes arranged at intervals at the sides of the rear water chamber and along the side water chambers and communicating at their upper ends with the upper portions of said chambers and at their lower end with the atmosphere below the tender.

2,534,453
AIR VENTING AND WATER OVERFLOW MEANS FOR LOCOMOTIVE TENDERS
Carl F. Kantola, Dumont, N. J.
Original application July 6, 1944, Serial No. 543,709. Divided and this application August 16, 1946, Serial No. 691,140
15 Claims. (Cl. 105—236)



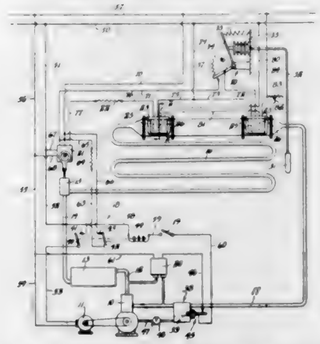
7. A locomotive tender having a water containing space extending substantially the full length thereof, means for introducing water into the tender to fill said space, and a longitudinal series of overflow pipes arranged at spaced points along said space and having their upper ends communicating with the top of said space and having their lower ends arranged to discharge overflow water below and outwardly beyond the bottom of the tender.

2,534,454
METHOD OF OPERATING OPEN-HEARTH FURNACES
Charles M. Kay, Worcester, Mass., and John C. Witherspoon, Monongahela, Pa., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application December 3, 1947, Serial No. 789,508
3 Claims. (Cl. 263—52)



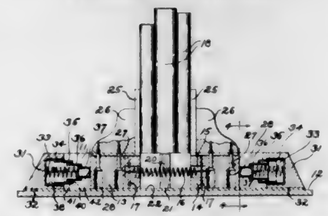
3. In the method of making steel in the melting chamber of an open hearth furnace which includes the step of charging metal scrap into the furnace, the improvement in the melting step thereof comprising projecting a pair of streams of liquid fuel from a pair of burners into one end of and longitudinally of said chamber, one stream of said fuel being directed downwardly at an angle to impinge on said charge, the other stream of said fuel being directly above and in the same vertical plane as the first stream and being directed downwardly at an angle to impinge on said charge at a point beyond the point of impingement of the first stream on the charge, supplying from 30% to 75% of the fuel through the top burner and the remainder through the bottom burner, the center lines of the streams of fuel intersecting at a zone between one-third and one-half the length of the furnace from the burners, and flowing into said chamber a stream of air around said streams of fuel.

2,534,455
REFRIGERATING CONTROL APPARATUS
Lamont B. Koontz, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 8, 1944, Serial No. 539,235
19 Claims. (Cl. 62—4)



1. In a refrigerating system, in combination, a condensing unit having a liquid refrigerant supply means and a gaseous refrigerant receiving means, an expansion valve, an evaporator, said valve being connected to said supply means for controlling refrigerant flow to said evaporator, reversible motor means for actuating said valve between open and closed positions, and a normally balanced electrical network circuit means for controlling the operation of said motor means, said circuit means comprising a plurality of spaced electrical temperature responsive impedance means, one of same being located within and near the exit of the evaporator and another of said impedance means being located within the evaporator and upstream of said one electrical impedance means.

2,534,456
SELF-CLOSING BOOKRACK
Dimitry Stephan Kudrikoff, Scranton, Pa.
Application February 6, 1948, Serial No. 6,585
3 Claims. (Cl. 211—43)

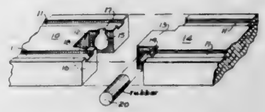


3. A book rack comprising an elongated base, a pair of slides positioned in end to end spaced relation with respect to each other and mounted on said base for sliding movement relative to each other, resilient means interposed between the facing ends of said slides and fixedly secured thereto for normally urging said slides toward each other, a book end carried by each of said slides, and a resilient means positioned adjacent each end of said base and having an end fixedly secured to the latter and having the other end bearing against the other end of the slide adjacent thereto for urging the slides and book ends toward each other.

2,534,457
NECKTIE RETAINER
Ivan R. Lang, Omaha, Nebr.
Application May 7, 1948, Serial No. 25,699
3 Claims. (Cl. 24—49)

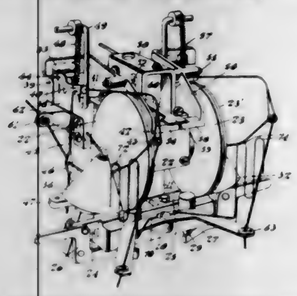
3. In a knotted four-in-hand tie retainer, a wire frame means having a diamond shape portion designed to rest within the knot of a knotted four-in-hand tie and a downwardly extending shaft portion designed to extend below the knot of the tie to which the retainer is designed to be applied, a hook member slidably mounted on said downwardly extending shaft portion designed to engage the under bottom edge of the knot of the tie to which the retainer is designed to be applied, a coil spring having one end secured to the top of the diamond portion of said wire frame and its other end secured to said hook member for yieldingly holding said hook member in a direction toward said diamond shape portion of said frame means, an eye stop formed on the lower end portion of said downwardly extending shaft, and a pointed projection on the lower end portion of said downwardly extending shaft designed to engage the scarf of the tie to which the retainer is designed to be applied; said hook member and said pointed projection extending in opposite directions.

2,534,458
TOY TRACK CONNECTING MEANS
Marshal H. Larrabee, Skaneateles, N. Y.
Application March 31, 1948, Serial No. 18,111
9 Claims. (Cl. 238—10)



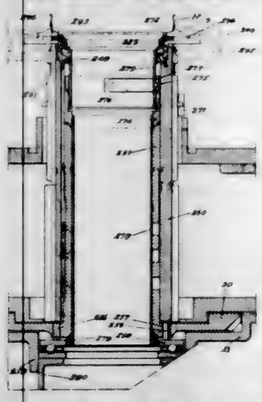
1. Toy track sections having a joint including a slot carried by one section and a tongue carried by an adjacent section to be coupled therewith, said slot and tongue having opposite walls engaging each other with a loose fit, said slot having a recessed wall portion, said tongue carrying a lug of compressible material protruding therefrom and yieldingly frictionally engaging in said recessed wall portion, said track sections being uncoupled by withdrawing said lug from said recessed wall portion through a channel in the wall of the slot.

2,534,459
STRAND FEEDING MECHANISM
Robert H. Lawson, Lakeport, N. H., assignor to Scott & Williams, Inc., Laconia, N. H., a corporation of Massachusetts
Application April 23, 1945, Serial No. 589,751
14 Claims. (Cl. 28—71.5)



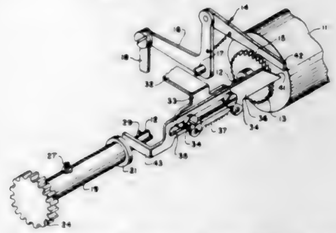
14. A duplex furnishing mechanism comprising a pair of strand-feeding cones having truncated smaller ends oppositely directed and disposed concentrically with respect to a common axis, separate rotary strand-feeding truncated cones in yielding contact with the oppositely directed cones and cooperating to advance different strands at independent rates of linear feed, depending on the point of contact therewith of the particular strand, while one cone of each pair is positively driven at the same speed.

2,534,460
SINKER CONTROL MEANS FOR CIRCULAR KNITTING MACHINES
Robert H. Lawson, Lakeport, and Maxwell P. Dodds, Laconia, N. H., assignors to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application February 7, 1949, Serial No. 74,868
13 Claims. (Cl. 66—107)



1. Sinker control means for a circular knitting machine comprising stitch-forming cams, a needle cylinder, independent radially movable sinkers carried by the needle cylinder, independent vertically movable needles, and resilient means adapted to press the sinkers radially inward, in combination with a positive stop for the sinkers adapted to insure that all sinkers be limited to the same inward depth throughout more than half the needle circle, and means adapted to vary the effective position of the stop relatively to the sinkers according to the part of the article being knit.

2,534,461
LINE FEED RELEASE MECHANISM
Otto A. Lorenz and Howard W. Yarnell, Chicago, Ill., assignors to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 24, 1947, Serial No. 781,976
1 Claim. (Cl. 197—114)

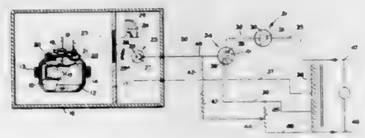


In a telegraph printer, a platen, a shaft for said platen, a line feed mechanism for rotating said platen and said shaft comprising a ratchet wheel and a pawl means cooperable with said ratchet wheel, said pawl means provided with an overhanging portion, signal controlled power driven means for actuating said line feed mechanism, a sleeve carried on an extended portion of said shaft adjacent said ratchet wheel, an adjustable screw mounted in the wall of said sleeve, said shaft provided with a wide peripheral groove to receive the inwardly projecting end of said screw, whereby the slidable movement of said sleeve on said shaft is limited, a cap covering one end of said sleeve, a compression spring disposed in the bore of said sleeve between said cap and the end of said shaft, a pin extending transversely through said shaft and disposed a predetermined distance from the other end of said sleeve and adapted under predetermined operating conditions to cooperate with aligned grooves in the adjacent end of said sleeve, a flange integral with said sleeve, and a pawl disengaging means slidably supported between said platen and said sleeve, said pawl disengaging means comprising a lateral projection cooperable with said flange and a camming means adapted to cooperate with said overhanging portion, whereby upon predetermined manipulation of said sleeve said camming means is caused to coact with said overhanging portion to disengage said pawl means from said ratchet wheel to facilitate manual operation of said platen irrespective of the continued operation of said pawl means by said power driven means.

2,534,462
CUSHION INSOLE
Henry G. Lumbard, Auburn, Maine
Application July 22, 1949, Serial No. 106,285
3 Claims. (Cl. 36—76)

3. An improved shoe comprising an insole, a ply of cushion material united with the upper surface of said insole, a curved metallic shank stiffener, split rivets securing the shank stiffener to the shank portion of the insole and imparting its curvature thereto, said stiffener having a perforation located near each end independently of the split rivets and both the insole and the cushion ply having corresponding larger concentric perforations, an outsole secured to the lower surface of the insole, a pair of rivets uniting said outsole and insole and extending through the perforations in said shank stiffener and said insole, said rivets having their clenched ends entirely contained within the perforations of said cushion ply, and a plug of outsole material disposed in compressed condition in the barrel of each of said rivets.

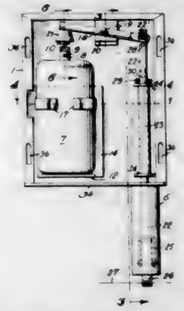
2,534,463
GYROSCOPE POSITION INDICATING DEVICE
Alan M. MacCallum, Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 16, 1946, Serial No. 697,203
5 Claims. (Cl. 177—311)



1. The combination with a three-degree-of-freedom gyroscope having a rotor mounted for oscillation about two mutually perpendicular horizontal axes and provided with a spin axis which, when the rotor has been energized for a predetermined interval of time, is adapted for attaining a substantially vertical position but which, when the rotor is initially energized subsequent to a rest period, is at an initial position other than said substantially vertical position, together with means for erecting said spin axis into said substantially vertical position, of means for indicating at a point remote from said gyro when the gyro spin axis has been brought into said substantially vertical position by said erecting means, means comprising an electrical circuit incorporating said indicating means therein and operating the latter when the circuit is energized, and means movable with said rotor spin axis into said substantially vertical position from said initial position and rotatable about said spin axis for energizing said circuit when the spin axis has attained said substantially vertical position.

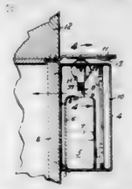
2,534,464
DOOR OPERATED ATOMIZING DEVICE
Thomas O. Marini, Audubon, and Leonard Onorato, Oaklyn, N. J.; said Onorato assignor to said Marini
Application August 31, 1948, Serial No. 46,986
10 Claims. (Cl. 299—82.5)

9. In combination with a door and a frame therefor, a container selectively mountable in either a vertical or a horizontal position on the frame adjacent the door opening and having a pressurized supply of a liquid room treating substance therein, said container having an atomizing discharge nozzle, a depressible valve normally closing said nozzle, movable valve depressing means supported adjacent the valve, means normally urging said depressing means to inoperative position, and actuating means engageable with the door and operable in consequence of the opening and closing movement thereof to effect movement of the valve depressing means and



thereby an atomized discharge from the container each time the door is opened or closed.

2,534,465
DOOR OPERATED ATOMIZING DEVICE
Thomas O. Marini, Audubon, N. J.
Application October 17, 1949, Serial No. 121,701
10 Claims. (Cl. 299—82.5)

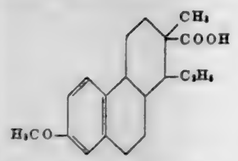


1. A deodorizing device including supporting means adapted to be mounted on a door structure and comprising at least a rear wall and spaced laterally extending end portions, a container mounted between the end portions and contacting one of the same and having a pressurized supply of a fluid room treating substance therein, said container including an atomizing discharge nozzle having an orifice through which discharge is effected, a valve within the container controlling said orifice, means embodied with the container for normally holding said valve in closed position, depressible means supported by the nozzle for opening said valve, valve actuating means carried by the other end portion and movable relative to the nozzle and contactable with said depressible means, said actuating means including an element movable in consequence of the opening and closing movements of the door member to exert pressure on said depressible means to open the valve to permit an atomized discharge from the nozzle each time the door is opened or closed, and the means for normally closing said valve and the depressible means automatically moving the actuating means to inoperative position after the door has been opened or closed.

2,534,466
OCTAHYDROPHENANTHRENE - 2 - CARBOXYLIC ACIDS AND DERIVATIVES THEREOF
Karl Miescher, Riehen, Jules Heer, Binningen, and Jean-René Billeter and Georg Anner, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application April 13, 1948, Serial No. 20,824. In Switzerland January 10, 1944
3 Claims. (Cl. 260—520)

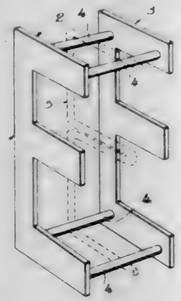
3. A member selected from the group consisting

of racemic 7-methoxy-1-ethyl-2-methyl-1,2,3,4,-9,10,11,12-octahydrophenanthrene-2 - carboxylic acids which correspond to the formula



and which have a melting point of 187–188° C. and 189–191° C., respectively.

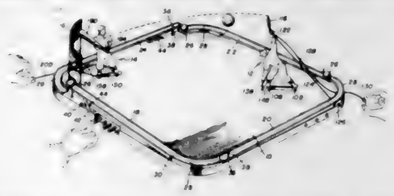
2,534,467
SIGN LETTER
James T. Miller, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application July 25, 1945, Serial No. 606,973
2 Claims. (Cl. 40—130)



1. A sign character comprising a pair of substantially identical flat metal plates, each in the form of the same letter of the alphabet, with the edges of the plates terminating in free exposed edges at the boundaries of the letter around the entire margin of the character; means to retain the plates in relatively widely spaced noncoplanar assembly with the space between the plates substantially open; a coating on each plate of a different color for producing the effect of a composite letter having relatively great thickness; together with a luminous tube in the form of the same letter of the alphabet as the plates positioned between the pair of plates and entirely within their marginal edges, whereby the space between the plates will be illuminated and the edges of each letter will be visible around their entire margins to add to the effect of relatively great depth of the character.

2,534,468
TABLE BASEBALL GAME
James C. Mitchell, Norfolk, Va., assignor of one-half to Richard B. Mitchell, Detroit, Mich.
Application March 25, 1947, Serial No. 736,947
20 Claims. (Cl. 273—89)

1. In a baseball game, a supporting base, a ball throwing mechanism mounted on said base, said mechanism including a manikin having pivoted upper and lower portions respectively simulating the torso and trunk of a baseball pitcher, said upper portion having forwardly and rearwardly extending lever arms rigidly attached thereto, a ball holding means carried by one of said arms, resilient means engaging the other arm and biasing said upper section in one direction and



a manual control secured to said upper section for moving the same in another direction.

2,534,469
BAIT RETAINING FISHHOOK
Charlie A. Moore, Victoria, Tex.
Application October 28, 1947, Serial No. 782,599
2 Claims. (Cl. 43—44.8)

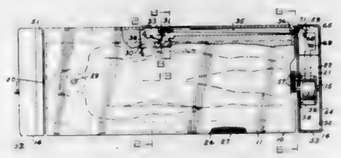
1. A bait retaining fish hook comprising a plurality of circumferentially spaced apart shank members converging at one end for disposition about a bait longitudinally engaged on one of said shank members, upwardly directed hook members on the convergent ends of said shank members, and inwardly directed arms on certain of said shank members at the divergent ends, and means securing the inner ends of said arms together and to the upper end of the remaining shank member.

2,534,470
ATTACHMENT FIXTURE FOR SAW GRINDING
Martin Murphy, Davenport, Iowa
Application April 27, 1949, Serial No. 89,857
3 Claims. (Cl. 76—37)

1. For use with a grinder of the type having a rotating wheel and a fixed horizontal work rest: an attachment fixture for facilitating the grinding of a centrally apertured circular saw or like

element, comprising an elongated relatively narrow base of substantially flat stock having a flat upper surface and first and second end portions, the first of which includes a flat under side having a pivot part on a vertical axis for mounting of the base on the work rest to extend horizontally outwardly from the wheel and for angular positioning about said axis, said base having its upper surface provided with a lengthwise channel closed at its bottom and opening upwardly and at said second end portion and defined at its sides by longitudinal portions lying in a common horizontal plane, said channel bottom having an elongated through slot lengthwise thereof; a carrier of elongated flat stock closely fitting and slidably carried in the channel and having an upper flat surface lying flush with said longitudinal portions in said horizontal plane so that a flat upper surface is presented on which such saw or like element may lie, said carrier having an end portion projecting longitudinally beyond the second end portion of the base and having a depending lug thereon; a retainer secured to the carrier and projecting downwardly and slidably through the aforesaid slot and having a headed end for retaining the carrier in the base; a lug depending from the base; said lugs having longitudinally alined apertures, one of which is internally threaded; a rod extending through the apertures and having a threaded portion cooperating with the threaded aperture and collar means cooperating with the lug having the unthreaded aperture, said rod projecting axially outwardly beyond said end portion of the carrier and having an operating handle thereon; and stud means projecting upwardly from the upper surface of the carrier member for rotatably receiving such apertured circular saw or like element.

2,534,471
REVOLVING BED
Ludwig M. Norheim, Garden City, Mich.
Application November 4, 1946, Serial No. 707,640
3 Claims. (Cl. 5—61)

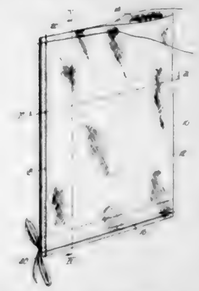


3. A revolving bed comprising spaced end supports, a member extending between the supports and having the opposite ends respectively pivotally mounted on the supports for continuous rotation, a cover for the member movable to open and closed positions and cooperating with the member to support a body in a reclining position during rotation of the member, a latch mechanism for holding the cover in the closed position with respect to the member and releasable by the user while in a reclining position between the member and cover, power means for continuously rotating the member, control means for starting and stopping the power means, means for operating the control means including a part movable in one direction to stop the power means and movable in another direction to start said power means, a connection between the latch mechanism and part for respectively moving the part in said first and second named directions as said latch mechanism is released and engaged.

2,534,472
CONDUIT SNAKE
Herman D. Norvelle, Jacksonville, Fla.
Application March 12, 1948, Serial No. 14,450
5 Claims. (Cl. 242—84.8)

1. A conduit snake operating device, said device comprising a rotatable drum, a snake around said drum, convolutions of the snake extending around said drum, aligned notches in the sides of the convolutions of the snake, planetary gear means for rotating said drum, latching members carried by the drum and extending into the alined notches in the side of the convolution of the snake on the drum, and means for successively unlatching said latching members at the point where the snake convolutions pass from the drum to a conduit.

2,534,473
CONVERTIBLE BAG AND APRON
Richard K. Peek, Kansas City, Mo., assignor to Percy Kent Bag Co., Inc., Kansas City, Mo.
Application March 29, 1948, Serial No. 17,663
4 Claims. (Cl. 150—1)

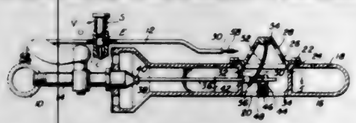


1. A bag readily convertible to an apron, said bag comprising a pair of identical panels disposed in face-to-face relationship and formed from a single piece of flexible material folded upon itself to present one edge of the bag; quickly removable stitching joining all proximal marginal edges of said panels; and means on the both panels for attaching the same to the body of a wearer when all of said stitching is removed and the panels laid open and unfolded in an apron-forming condition.

2,534,474
SAFETY GAS BURNER
Lionel J. Pellerin, Lynn, Mass.
Application December 16, 1947, Serial No. 791,995
4 Claims. (Cl. 158—117.1)

1. In a safety gas burner including a supply conduit, a burner removably carried by said con-

duit, said burner having a central opening, a pilot tube disposed over said burner and having a discharge tip, a support carried by said burner adjacent staid opening, and a valve controlling the flow of gas through said conduit; a thermostatic



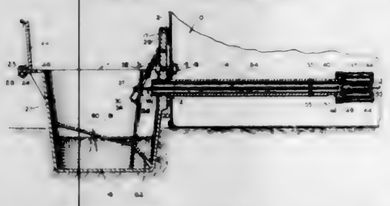
spring having a pair of terminals, one terminal of said spring being secured to said support, the opposite terminal of said spring being spaced from the tip of said pilot tube and connected to said valve, said spring being responsive to heat from said pilot tube for actuating said valve.

2,534,475

HOG WATERING DEVICE

Theodore P. Peterson, Mitchell, S. Dak., assignor to Hegvold Woodcraft Co. Inc., Mitchell, S. Dak., a corporation

Application October 9, 1947, Serial No. 778,821
4 Claims. (Cl. 119—75)



1. A watering attachment for a water supply tank having a wall opening, comprising a drinking bowl having a portion of its wall of thickened construction and projecting a substantial distance above the top of the bowl, said portion having a threaded opening below the level of the top of the bowl, means for securing said portion of the bowl to the wall of the tank with said openings aligned, a pipe secured in the threaded opening and extending through the tank wall opening into the tank, a valve closing the end of the pipe in the tank, a shield plate secured to said thickened portion above the threaded opening and directed downwardly and forwardly into the bowl, a trigger plate having an upper edge portion disposed between said shield plate and the thickened portion of the bowl and extending downwardly across the adjacent end of the pipe, pivot means connecting the said upper edge portion of the trigger plate with the shield plate, and a valve operating rod extending through said pipe and connected at its outer end with the trigger plate, the inner end of the rod being adapted to open the valve upon downward swinging movement of the trigger plate.

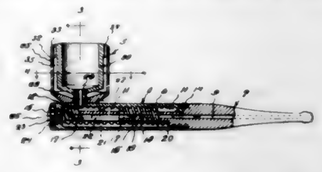
2,534,476

SMOKING PIPE

Marion Plesh, Represa, Calif.

Application May 25, 1945, Serial No. 595,668
2 Claims. (Cl. 131—222)

2. As a new article of manufacture, a smoking pipe including a hollow base stem having one end provided with a mouthpiece and a bowl detachably secured to the other end thereof, said base stem being provided with a longitudinally extending interiorly threaded bore, there being opposed grooves extending inwardly from the other end of said base stem, tongue means carried by said bowl and slidably supported within said opposed grooves for assembling said bowl on said base stem, a screw threaded nipple member having one end connected to said bowl member and having the other end extending through and embracingly supported within said base stem for positioning said bowl with respect to said base



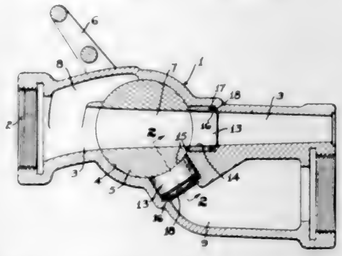
stem, said nipple member having one end in communication with said bowl and having the other end in communication with said bore, and closure means positioned adjacent to said other end of said base stem and threadably secured to said bore for closing the latter and to prevent said bowl from being inadvertently slid off the end of said base stem.

2,534,477

PRESSURE SEALING MEANS FOR VALVES

Elmer W. Prout, La Canada, Calif., assignor, by mesne assignments, to Thompson W. Burnam, Aletha K. Burnam, Ann Burnam, John C. Burnam, and Julia B. Crews, trading as a limited partnership under the name Fog Nozzle Company

Application March 4, 1946, Serial No. 651,825
3 Claims. (Cl. 251—113)



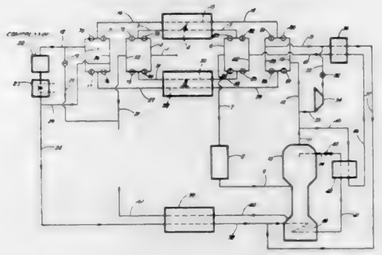
1. The combination with a valve body having a fluid course intersected by a valve chamber, the fluid course being counterbored in a region confronting said valve chamber and a valve member movable in said valve chamber, of a sealing means comprising: a hollow cylindrical member slidable in said counterbore, one end of said member being shaped into conformity with said valve member, the other end having an axially extending lip and defining with the base end of said counterbore an annular pressure cavity said lip extending beyond said counterbore into said fluid course; a seal means lining said cavity to isolate said cavity from said fluid course, said cylindrical member having a sufficiently loose fit that pressure applied to fluid disposed between said valve member and the walls of the valve chamber may be transmitted through fluid around the exterior of said cylindrical member to said pressure cavity, said cylindrical member adapted, when subjected to pressure in said pressure cavity to sealingly engage said valve member.

2,534,478

GAS PURIFYING METHOD AND APPARATUS

Irving Roberts, Greensburg, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania

Application March 31, 1947, Serial No. 738,487
17 Claims. (Cl. 62—175.5)



1. In a gas processing plant, apparatus for continuously cooling and purifying a gaseous mixture and for continuously cooling a compressed gaseous fluid at least some of which is subsequently liquefied for use in the plant; comprising a pair of interchangeable countercurrent heat exchangers, each having passages therethrough provided with warm and cold ends; conduits for delivering the gaseous mixture to the warm end of a passage in one exchanger and for withdrawing it from the cold end; conduits for delivering a cold gaseous fluid to the cold end of a second passage in the same exchanger and for withdrawing it from the warm end, whereby the cold fluid will cool the mixture and cause the impurities therein to be deposited in the first passage; conduits for delivering a cooling gaseous fluid, which is warmer than the mixture leaving the first exchanger, to the cold end of a passage in the second exchanger and for withdrawing it from the warm end; conduits for delivering a compressed gaseous fluid to the warm end of a second passage in the second exchanger and for withdrawing it from the cold end, whereby the compressed fluid will be cooled by the cooling fluid; liquefying apparatus for receiving at least some of the cooled compressed fluid and liquefying it; valves for switching the cold fluid flowing to the first exchanger and the compressed fluid flowing to the second exchanger, to direct the cold fluid to the cold end of the second passage in the second exchanger and to direct the compressed fluid to the warm end of the second passage in the first exchanger; and valves for switching the mixture flowing to the first exchanger and the cooling fluid flowing to the second exchanger, to direct the mixture to the warm end of the first passage in the second exchanger and to direct the cooling fluid to the cold end of the first passage in the first exchanger, whereby the cooling fluid will cool the compressed fluid in the first exchanger and simultaneously remove the impurities previously deposited by the mixture in the same exchanger.

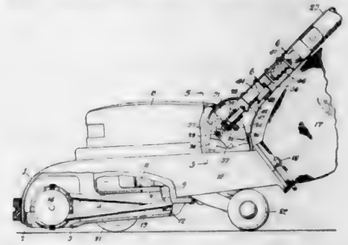
2,534,479

HANDLE ACTUATED DELAYED MOTOR DISCONNECT FOR SUCTION CLEANERS

William D. Sellers, Glen Ellyn, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application December 29, 1944, Serial No. 570,300
15 Claims. (Cl. 15—319)

1. The combination with a suction cleaner of the type having a body, a surface cleaning means in said body, an electric driving motor for said surface cleaning means, means movably supporting said body, a propelling handle pivotally connected to said body, means to retain said handle in a certain angular position relative to said body and an electrical circuit for energizing said motor, of means for energizing and de-energizing said electric driving motor upon movement of the propelling handle out of and into said certain position comprising a switch



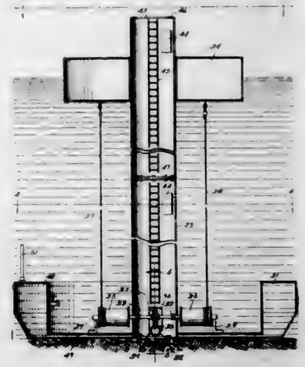
for controlling the electrical circuit for energizing said motor, time delay means operatively connected to said switch to open said switch to de-energize said motor after a predetermined time interval with said handle in said certain position, and means operatively connected to said handle and to said switch to close said switch to energize said motor immediately upon said handle being moved from said certain position.

2,534,480

MARINE OIL DRILLING MACHINE

Joseph Shannon, Beaumont, Tex.

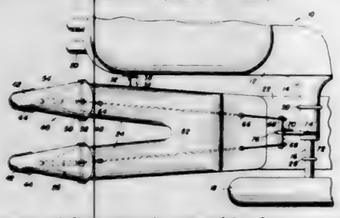
Application March 20, 1947, Serial No. 735,832
8 Claims. (Cl. 61—81)



8. In an under water well drilling caisson, the combination which comprises a vertically disposed tubular well providing a housing for equipment and workmen with the upper end open and having a horizontally disposed door in the lower end through which well drilling equipment may be extended, an upper annular ballast tank slidably mounted on said well, said well formed of sections having inwardly extended connecting flanges whereby a smooth outer surface is provided for passage of the upper annular ballast tank, an annular lower ballast tank having an intermediate annular recess for receiving the upper ballast tank carried by the lower end of the well, cables connecting the upper and lower

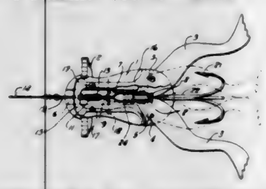
ballast tanks, and means actuating the cables to draw the upper ballast tank into the annular recess of the lower ballast tank.

2,534,481
ADJUSTABLE CORN PICKER SNOUT
Lester L. Spraker, Eaton, Ohio
Application April 22, 1948, Serial No. 22,692
1 Claim. (Cl. 56—119)



A corn picker snout assembly for use with a corn picker mounted on the frame of a tractor, comprising a bifurcated member having the arms thereof pointed toward the front of the tractor, means for adjustably securing said member on the frame of a tractor so that the arms are at a predetermined height above the ground, snouts mounted on said arms for pivotal movement, and means for pivotally shifting said snouts together, said means comprising a lever pivoted on said frame of the tractor, and inflexible links secured to and between said lever and said snouts, said arms being hollow and having apertures on the upper portions thereof adjacent their front and rear ends, and said links being inserted through said apertures and interiorly traversing said arms.

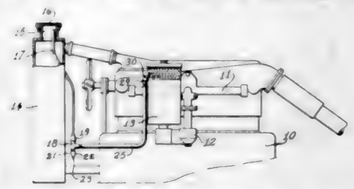
2,534,482
FISH LURE
George C. Terhorst, Pittsburgh, Pa.
Application June 3, 1948, Serial No. 30,891
3 Claims. (Cl. 43—42.02)



1. An artificial fish lure resembling a live frog, comprising a body portion provided with an axially disposed slot, a pair of rear legs pivotally connected to said body portion for movement substantially in a horizontal plane, a hair-pin type spring mounted in said slot in said body portion with the free ends of said spring pivotally engaging said rear legs at points spaced inwardly from the pivot points of the legs, and means for connecting the closed end of said spring to a line for pulling the lure through the water.

2,534,483
VAPOR INJECTOR
Raymond G. Thomas, Washington, D. C.
Application August 11, 1948, Serial No. 43,607
9 Claims. (Cl. 123—25)

1. For use with a power plant including an internal combustion engine having a fuel induction system including an air strainer and a cooling radiator having an overflow pipe, a water vapor injector comprising a fitting adapted to be attached to the lower end of the overflow pipe and having a normally closed opening for excluding atmospheric air but openable under pressure or weight of water in the overflow pipe to discharge such water, a vapor tube connected to said fitting, an airfoil head/Bernoulli lift connected to said tube having an opening therein



communicating with said tube and exposed on the airfoil section of the head, and attaching means carrying said head and adapted to engage the air strainer to maintain the opening toward the air strainer in such relation that the airstream moving over the airfoil section will place the vapor space of the radiator under partial vacuum.

2,534,484
AMBROSIA
John I. Thompson, Bay Head, N. J., and Robert Flowers, Thomasville, Ga., assignors to Mitchell Canneries, Inc., Thomasville, Ga., a corporation of Florida
No Drawing. Application May 5, 1947, Serial No. 746,162
11 Claims. (Cl. 99—125)

1. The process of stabilizing shredded cocoanut when canned with citrus fruit and sugar syrup which comprises saponifying and removing the surface oil from the shreds, and replacing said surface oils with the sugar syrup in the can.

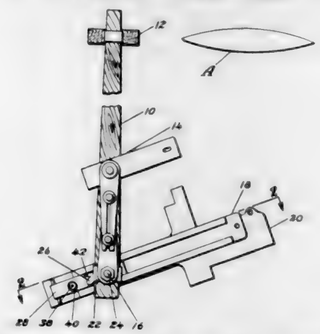
2,534,485
PHOTOCHEMICAL PRODUCTION OF BENZENE HEXACHLORIDE
Warren L. Towle, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application July 27, 1948, Serial No. 40,999
2 Claims. (Cl. 204—163)

1. A process of producing benzene hexachloride by reacting chlorine with benzene, which comprises subjecting the chlorine to actinic radiation while the chlorine is in a zone spaced from the zone in which the benzene is disposed, and mixing the irradiated chlorine with benzene within one second after irradiation and maintaining the resulting mixture outside the zone of influence of actinic irradiation.

2,534,486
SHARPENER FOR MEAT BLOCK SCRAPERS
Carl S. Van Loon, Salina, Kans.
Application March 3, 1949, Serial No. 79,405
1 Claim. (Cl. 76—82)

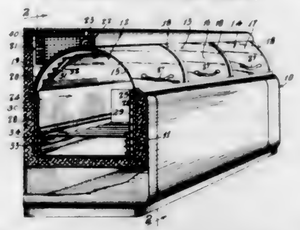
A sharpener comprising a block having an opening horizontally therethrough, a file disposed removably within the opening, the top of the block being slotted over said file, a pair of upstanding guide walls, one at each side of the slot for guiding a meat block scraper, when being reciprocated upon the file, an elongated handle bar disposed with one end in the opening of the block and below the file, and a set screw feedable through the bottom of the block to engage the handle bar and clamp said file against the block at the upper side portion of said opening.

2,534,487
PICKER STICK
Tevis R. Wageley, Martinsburg, W. Va., assignor of one-half to Dunn Woolen Company, Martinsburg, W. Va.
Application March 3, 1948, Serial No. 12,799
6 Claims. (Cl. 139—156)



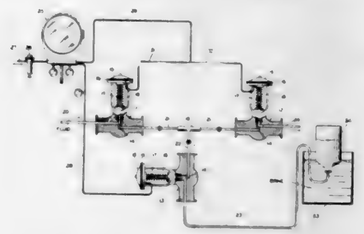
1. In a picker stick movable in a path which includes a position of bumper impact, slidable pivot means for supporting said picker stick, means for holding said pivot means in a fixed pivotal axis, said holding means being releasable to permit sliding movement of said pivot means away from its fixed axis, and means to prevent release of said holding means when the picker stick is in bumper impact position.

2,534,488
REFRIGERATED STRUCTURE WITH CURVED DOOR
Karl A. Weber, Brentwood Heights, Calif., assignor to Weber Showcase & Fixture Co., Inc., Los Angeles, Calif., a corporation of Delaware
Application June 21, 1946, Serial No. 678,499
4 Claims. (Cl. 62—89.6)



1. In combination, a refrigerated storage structure including a heat insulated back wall, a sliding door arranged in said structure, said door being formed substantially in a quarter of an arc of a circle, said door including a curved transparent window, a curved cooperating guide way in said structure extending generally downwardly toward said back wall within which said door may be moved and guided when said door is moved to retracted open position, said guide way being curved to form substantially a quarter of an arc of a circle which is contiguous to and forms a continuation of the arc formed by said door when it is in closed position, refrigerant pipes housed within said structure immediately below said guideway, said guideway extending and being disposed between said back wall and said refrigerant pipes, a guard plate mounted adjacent said refrigerant pipes and being mounted in front of the same, said guard plate sloping generally downwardly and rearwardly in the direction of said guideway to guard one from touching said pipes and to obscure vision of the door when in open position for purposes of appearance, the door being so arranged on the structure that its curve faces concavely downwardly in all positions thereof and the guideway being curved concavely downwardly and rearwardly to thereby allow the door to be maintained in either its open or closed position, in a position of stable equilibrium solely by gravity forces acting thereon.

2,534,489
AUTOMATIC SAMPLER OF LIQUID AND GAS PHASE STREAMS
Ludwig A. Webber and Otta W. Kiphart, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application July 2, 1945, Serial No. 602,818
7 Claims. (Cl. 73—421.5)

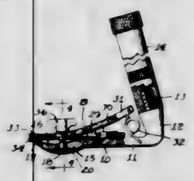


1. A fluid sampling system comprising in combination at least two valves connected by a proportioning chamber and providing fluid flow therethrough; a fluid sample inlet conduit connected to the open end of one of said valves; a gas sample collector vessel; a gas sample outlet conduit extending from the free end of one of said valves to said gas sample collector vessel; fluid actuated valve operating means in each said valve; conduit means extending between a source of pressurized-fluid and said valve operating means; and a controller in said conduit means, adapted to control the flow of said pressurized-fluid to said valve actuating means so as to alternately actuate said valve in the inlet to said proportioning chamber and said valve in the outlet end of said chamber.

2,534,490
SAFETY RAZOR
Frank A. Weeks, Scobey, Miss.
Application June 5, 1947, Serial No. 752,662
3 Claims. (Cl. 30—51)

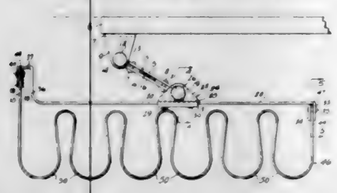
3. In a razor of the character described, a back plate, a handle attached thereto, one face of the back plate having a convex portion thereacross bordered by one edge of the plate and the opposite face having an opposing concavity, the con-

vex portion of the back plate being recessed, a bar removably disposed in said recess and having a plurality of pins extending through the back plate, one of said pins being screw-threaded, a clamping plate operatively pivoted upon the back plate inwardly of the concavity, said clamping plate having a convex underface extending across confronting the concavity of the back plate, the clamping plate having a forward edge dentated and disposed along the said one edge of the back



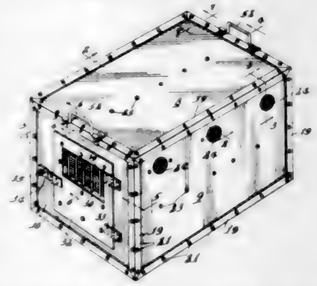
plate, blade edge engaging hooks at the ends of said dentated edge of the clamping plate, the clamping plate having apertures for the passage of said pins, a nut engaging the screw-threaded pin and bearing against the clamping plate, a spring urging oscillation of the clamping plate in a direction to move the dentated edge toward the said one edge of the back plate, and an adjustable abutment mounted upon the back plate and adjustable toward and from the said one edge of the back plate.

2,534,491
DRAPERY FIXTURE
Jacob A. Wersching, Chicago, Ill.
Application May 3, 1949, Serial No. 91,177
5 Claims. (Cl. 160—348)



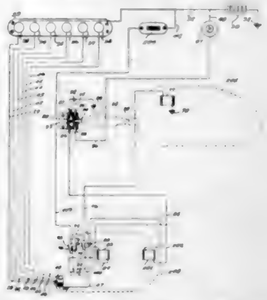
2. A drapery fixture including an elongated supporting bar, a bracket adapted to be secured to a window frame or trim, an upright pivot member on the bracket, arm means extending horizontally from the latter and having a pair of clamping members at one end frictionally clasping the pivot member, a supporting yoke having a second upright pivot member and an integral front plate, a second pair of clamping members on the other end of said arm means frictionally clasping said second pivot member and carrying said supporting yoke, an anchoring plate holding said supporting bar in horizontal position against said front plate, there being a longitudinal slot in said bar, securing means extending through the anchoring plate and the longitudinal slot in said supporting bar and into said front plate, a pair of forwardly-directed lugs upon the ends of said bar disposed at an angle thereto, a sinuous bar terminating at the ends thereof in a pair of rearwardly-directed extremities and adapted to be threaded through a hem upon the upper end of a piece of drapery, and means for detachably mounting the extremities of the sinuous bar individually upon said lugs and supporting said sinuous bar in substantially horizontal position upon said elongated supporting bar.

2,534,492
ANIMAL SHIPPING CRATE
August Lee Williams, Chicago, Ill.
Application April 8, 1948, Serial No. 19,793
5 Claims. (Cl. 119—19)



1. A shipping crate for animals comprising a generally rectangular container having light sheet metal top, bottom, side and end walls, the top, side and bottom walls being formed from a single sheet of such metal with one pair of the opposite edges of the sheet secured together in abutting relation, light sheet metal L-shaped reinforcing elements extending along and from end to end of each corner edge of the container and secured to each of the adjacent walls at spaced intervals therealong, a channel shaped reinforcing element disposed against and secured to the inside surface of each of the side and top walls and extending substantially from end to end thereof intermediate of the opposite longitudinal edges of the walls, one of said end walls having a doorway therein, a door for closing said doorway, and a screened opening in the end wall opposite to said door and the said side walls.

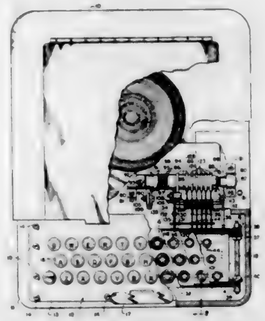
2,534,493
HYDROELECTRIC GEARSHIFT
Leonard T. Womack and Jewel Jackson Womack, Carpinteria, Calif.
Application December 16, 1947, Serial No. 791,968
14 Claims. (Cl. 192—3.5)



1. In a change-speed device, the combination with a variable speed transmission including a plurality of shiftable gears, gear-shifting means, a driving shaft, a clutch operatively connecting said shaft to said transmission, and clutch-actuating means for engaging and disengaging said clutch; of separate clutch and gear-shifting servos for separately actuating said gear-shifting and clutch-actuating means, electric control means for said servos including a plurality of normally open circuits, a junction box, each circuit including a substantially identical slide rod,

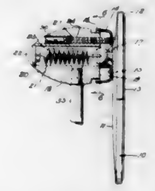
insulating means rigidly mounting said rods in said junction box in laterally-spaced parallel relation, a slider slidable on all of said rods within said junction box, a separate contact brush slidably engaging each rod and carried by said slider, means insulating said brushes from each other, a separate stationary contact bar slidably engaged by each brush, said contact bars being fixed in said junction box substantially parallel to said rods and being spaced and insulated therefrom, a gap in each bar, said gap of each bar being staggered longitudinally relative to every other gap, bus bars connecting the opposite ends of said contact bars, selector means operative upon actuation to establish a selected circuit through a slide rod, a brush, a contact bar and a bus bar to said control means for said clutch servo whereby to actuate the latter to disengage said clutch, means operative upon disengagement of said clutch to establish said circuit to said control means for said gear-shifting servo whereby to actuate the latter to perform a selected gear-shifting operation, means operatively connecting said gear-shifting servo to said slider to slide the same and the selected brush toward said gap of said selected contact bar, said gap being positioned to open said circuit at the completion of said shifting operation, and means operative upon the opening of said circuit to lock said gear-shifting servo and reengage said clutch.

2,534,494
TELEGRAPH TRANSMITTER
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 4, 1947, Serial No. 778,005
4 Claims. (Cl. 178—79)



1. In a telegraph apparatus, a keyboard, a plurality of push button type keys mounted in said keyboard, a space bar mounted in said keyboard, a plurality of channel shaped movable code plates each having apertures therein corresponding to each of said keys, cam surfaces on each of said keys being adapted to enter the corresponding aperture in each of said code plates whenever a key is depressed to cam said code plates into a permutation of positions corresponding to the key depressed, a cam surface on said space bar being adapted to shift said code plates into a permutation of positions corresponding to a space whenever said space bar is depressed, a locking finger on each code plate, a lever actuated whenever one of the keys or the space bar is depressed for engaging said locking finger on each code plate to lock said code plates in the permutation of positions corresponding to the key or space bar depressed, a finger on each code plate and movable therewith to either a circuit making position or to a noncircuit making position whenever said code plates are permutably positioned, and a plurality of circuit makers which normally sequentially close a circuit, each of said circuit makers cooperating with one of said fingers whereby the permutation of positions of said code plates is converted into a permutation of open and closed circuit conditions.

2,534,495
REARVIEW MIRROR
James L. Younghusband, Chicago, Ill.
Application August 26, 1949, Serial No. 112,525
1 Claim. (Cl. 88—98)

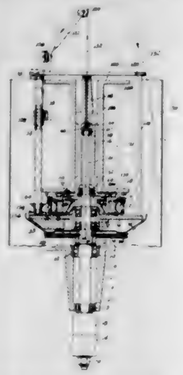


A rear view mirror for vehicles adjustable to an unlimited number of positions and automatically returnable to the desired position, comprising a casing, a mirror mounted in said casing, a ball-shaped member attached to the rear of said casing, a cup having an opening, said ball-shaped member extending through the opening of said cup and pivotally attaching said casing to said cup, a housing having its upper end extending within said cup, said housing tapering bullet-shaped to a rear end, a coiled spring positioned within said housing and having its lower end attached to said housing and its upper end attached to said ball-shaped member, a plurality of spaced screws screw threaded within said housing, the lower ends of said screws extending short of the housing and positioned within the said housing, said housing having a plurality of spaced deepened openings extending from the exterior of said housing to the lower ends of said screws, the lower ends of said screws notched to receive and be moved by the head of a screw driver so that the upper ends of said screws extend upwardly beyond said housing to bear against said cup to tilt said casing and said mirror to desired position, said spring adapted when said mirror is moved to other than the desired position to return said mirror when released to the desired position, and a rod attached to said housing and having means for attachment to a vehicle.

2,534,496
CONSTANT TENSION ELONGATED MATERIAL HANDLING MECHANISM
Vincent A. Agresti, Rochelle Park, N. J., assignor to Howe Machinery Company, Inc., Passaic, N. J., a corporation of New Jersey
Application March 17, 1948, Serial No. 15,394
16 Claims. (Cl. 242—45)

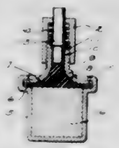
1. In a device for reeling elongated flexible material, a substantially vertical rotary shaft, driving means for such shaft, a bobbin support mounted on and driven by the shaft, means to lay the elongated flexible material on a substantially cylindrical bobbin slidingly mounted for vertical movement on the bobbin support in a

plurality of superimposed layers each of substantially constant radius, a variable torque slip clutch drivingly interposed between the shaft and the bobbin support, said clutch comprising a driving part connected to the shaft and a driven part connected to the bobbin support, such parts being magnetically coupled together and being of such configuration and so mounted that the air gap between them may be varied, the two parts together constituting a magnetic system of substantially constant strength, and means responsive to changes in the total weight



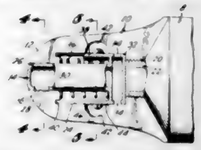
of the elongated flexible material present on the bobbin to vary the air gap between said parts of the clutch thereby to vary the effective torque transmitted by the clutch from the shaft to the bobbin support, to maintain the tension in the material being wound substantially constant, said last named means comprising spring means connecting one of the aforesaid parts of the clutch to the respective member to which it is attached, and means to transmit the weight of the bobbin and the material wound thereon to the spring mounted part of the clutch.

2,534,497
MOTION TRANSMITTING DEVICE
John C. Albright, Chicago, Ill., assignor, by mesne assignments, to himself and William J. Adams, Chicago, Ill.
Application June 12, 1947, Serial No. 754,093
12 Claims. (Cl. 137—157)



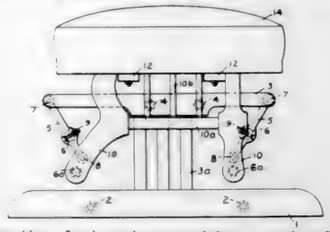
1. In a pressure responsive device, a chamber having a pressure compartment of relatively large diameter and a cylinder compartment of materially smaller diameter, and a tapered throat providing a uniformly curving wall surface comprising an end of the pressure compartment and leading from the larger compartment to the smaller compartment with progressively changing direction and a deformable body within said throat and flowable into said cylinder compartment in response to increase of pressure in said pressure compartment relative to that in said cylinder compartment.

2,534,498
CAP FOR COLLAPSIBLE TUBE DISPENSERS
Mayo Broussard, Los Angeles, Calif.
Application October 17, 1949, Serial No. 121,761
3 Claims. (Cl. 222—492)



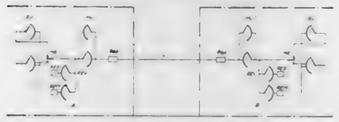
1. In a closure for a compressible tube, a casing member having an inlet at the inner end thereof and having an outlet passage at the outer end thereof and having an enlarged cylindrical chamber interconnecting said inlet and said outlet; a discharge member comprising a piston member slidably arranged within said chamber and a hollow stem member slidably arranged within said outlet passage, said piston member having a first opening therein communicating with the interior of said stem member, said stem member having a second, lateral opening adjacent the outer end thereof; resilient means for urging said discharge member inwardly into an inner position wherein said second lateral opening is covered by the side wall of said outlet passage, said stem member being movable outwardly against the force of said resilient means by the pressure of fluid forced into said casing inlet into an outer position in which said second lateral opening is exposed to the atmosphere; and valving means for maintaining said first opening open to establish communication between said first opening and said inlet only when said discharge member is forced outwardly beyond a predetermined point.

2,534,499
FLOATING OTTOMAN
Emmett C. Burden, Lansing, Mich.
Application April 30, 1949, Serial No. 90,713
1 Claim. (Cl. 155—165)



A floating foot rest comprising a pair of elongated base supports, a pair of cylindrical cross braces, the said base supports being connected by the said cylindrical cross braces, a plurality of long vertical spindles, a pair of cross members, a pair of top supports, the said vertical spindles disposed between one of the said base supports and one of the said top supports, an upholstered cushion, two pairs of vertical supports, each of the said vertical supports being secured to the said cushion and extending downwardly therefrom, two pairs of hangers, each of the said hangers being swingably attached to one end of one of the said top supports at its upper end, and each of the said hangers being swingably attached to one of the said vertical supports, a pair of separator bars, and each of the said separator bars being connected at its ends to a pair of opposed hangers.

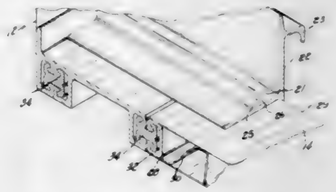
2,534,500
AUTOMATIC SWITCHING ARRANGEMENT
Per Harry Elias Claesson, Jakobsberg, and Ivan Witalis Grundin, Stockholm, Sweden
Application December 30, 1947, Serial No. 794,510
In Sweden November 14, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 14, 1966
4 Claims. (Cl. 179—18)



1. In a telecommunication system, two exchanges, a plurality of subscribers' lines connected to each exchange, subscribers' stations connected to said lines, a plurality of trunklines provided between said exchanges, means including said trunklines for connecting any calling station of one exchange with any station of the other exchange, the calling exchange comprising a plurality of switching circuits, means including said switching circuits, for connecting a calling station to an idle trunkline, and means for transmitting signal combinations corresponding to the called subscriber's station and signals for identification of the switching circuit connected to the calling station over said idle trunkline, means at the called exchange for receiving said signal combinations, and means for storing said signal combinations, means at both exchanges to cause disconnection of the trunkline over which the signal combinations have been transmitted as soon as said signal combinations have been received at the called exchange, means at the calling exchange whereby said disconnect means is actuated as soon as said signals have been transmitted, and means at the called exchange whereby said disconnect means is actuated as soon as said signals have been received, means at the called exchange for selecting the desired subscriber's number according to the received signal combinations, means at the called exchange for selecting an idle trunkline leading to the calling exchange, when the called subscriber's station has answered the call, means to cause the subscriber's answer signal to actuate the said selecting means, and means at the called exchange for transmitting the received stored signal combinations back to the calling exchange over the last mentioned selected trunk line, means at the calling exchange for receiving the said signal combination transmitted back to the calling exchange and corresponding to the switching circuit and to the calling subscriber's station connected thereto, and means for connecting the last mentioned selected trunk line to said calling switching circuit for finally establishing connection between the two subscribers' stations.

2,534,501
VEHICLE BODY CONSTRUCTION
Howard Coleman, Bay City, Mich.
Application October 4, 1947, Serial No. 777,979
5 Claims. (Cl. 296—28)

1. A vehicle comprising a body including sides, the lower portions of which are in the form of longitudinally disposed girders extending the length of the body, a plurality of floor panel sections spanning said girders and secured thereto, each panel comprising spaced-apart upper and lower sheets, a substantially corrugated web interposed between said sheets and secured thereto, hollow beam sections C-shaped in cross section to provide an elongated slotted opening in one side wall thereof, said beams being secured to the edges of and forming a part of each panel



section, and locking means slidable in said slotted openings and in interlocking engagement with said beams for rigidly securing the panel sections in edge-to-edge relation.

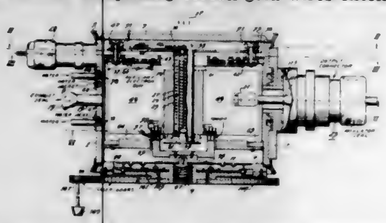
2,534,502
CHAIR COVER CONSTRUCTION
Clarence L. Dewey, Grand Rapids, Mich.
Application October 30, 1946, Serial No. 706,703
2 Claims. (Cl. 155—182)

1. A chair having a four-sided metal frame which includes brace plates in a common plane in the corners adjacent its legs and a tubular back in the form of an archway having an inward crimp extended continuously along its outermost point, a seat mounted on the chair frame and secured to the corner braces thereof, a panel extended across the archway and supported thereby, the panel being in the form of an envelope made of two plies of material inwardly seamed along their edges except at the bottom, the envelope being fitted over the frame archway, open bottom down, with its inwardly extended seams disposed within the crimp thereof, and flexible ties connected to the envelope at its bottom and extended therefrom to the proximate brace plates, the latter being provided with means wherewith the ties may engage to secure the envelope against movement upwardly from its downmost position.

2,534,503
FREQUENCY-MODULATED MAGNETRON MICROWAVE GENERATOR
John S. Donal, Jr., Robert R. Bush, and Carmen L. Cuccia, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 28, 1947, Serial No. 757,756
14 Claims. (Cl. 332—5)

1. A microwave generator comprising a cathode, an anode cavity resonator adjacent to said cathode, and frequency modulating means including means for projecting an electron beam along a predetermined path through said resonator to vary the reactance of said resonator

as a function of the energy of said electron beam and means comprising screen grid wires extend-



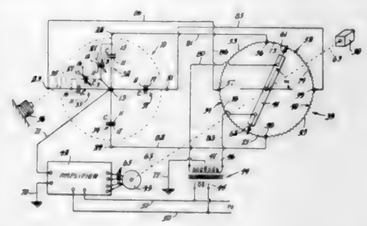
ing across said path for collecting secondary-electrons generated by said beam.

2,534,504
BEVERAGE DISPENSING APPARATUS
Oscar L. Engstrom, New York, N. Y.
Application September 14, 1946, Serial No. 697,016
10 Claims. (Cl. 222—383)

1. In a liquid measuring dispensing pump, a cylindrical vertical casing having upper and lower apertured closure heads, a hollow apertured piston slidable in said casing, a coiled spring in said casing resting upon said lower head and pressing upwardly upon said piston, a top valve disk seated on said piston, said upper closure head comprising means engageable with said top valve disk for limiting upward movement of said top valve disk and said piston, a check valve disk seated on said lower head, a depending suction tube connected to said lower head for insertion below the level of the liquid in a supply bottle located beneath said lower head, and a vertical plunger connected to said piston and extending up through the upper head for permitting said piston to be manually depressed to cause a charge of liquid to pass above said piston, and a delivery spout connected to the side of said upper head for discharging the liquid, when said plunger is released, by the automatic lifting of said piston by the action of said spring.

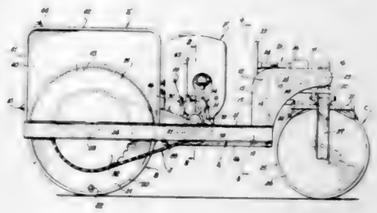
2,534,505
CAPACITY PICKUP FOLLOW-UP SYSTEM
William K. Ergen, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 15, 1944, Serial No. 568,333
5 Claims. (Cl. 318—25)

5. In a device of the class described, in combination: a balanceable network comprising capacitance means, including several capacitors having a common electrode and individual electrodes and a dielectric member differentially varying the capacitances of said capacitors, resistance means, including a like number of resistors and means connecting said resistors in series relation to form an endless resistance member, and means connecting each point common to two of said resistors to the individual electrode of one of said capacitors; a source of electrical energy; means adjustably energizing said resistance determine the potential of each of said common points with respect to a selected potential, an electric motor; means connecting said motor to



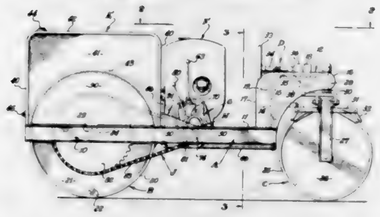
adjust said energizing means so as to vary the potentials of said common points, and hence the potentials of said individual electrodes, with respect to said selected potential; means mechanically responsive to a condition; means connecting said last named means in driving relation to said dielectric member, to unbalance said network by varying the capacitances of said capacitors and hence to vary the potential of said common electrode with respect to said selected potential, and means energizing said motor in accordance with the difference between the potential of said common electrode and said selected potential.

2,534,506
ROAD ROLLER
Bryant Essick, Los Angeles, Calif., assignor to Essick Manufacturing Company, Los Angeles, Calif., a corporation of California
Application March 30, 1946, Serial No. 658,507
3 Claims. (Cl. 180—20)



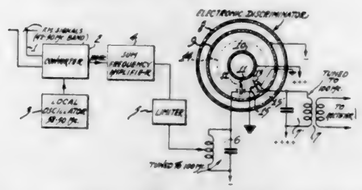
1. A road rolling vehicle including, an elongate rigid frame having spaced side beams and an upwardly and forwardly projecting head rigid with and projecting from the beams at one end of the frame, a drive roller, mounting means rotatably supporting the roller and carried by and between the beams, a steering roller carried by the head of the frame, and means carried by the frame for operating the drive roller including a power unit carried by the frame and a drive from the power unit to the drive roller, the unit including an engine, and a reversible friction clutch for reversing the direction of movement of the vehicle.

2,534,507
ROAD ROLLER CONSTRUCTION
Bryant Essick, Long Beach, Calif., assignor to Essick Manufacturing Company, Los Angeles, Calif., a corporation of California
Original application March 30, 1946, Serial No. 658,507. Divided and this application June 23, 1947, Serial No. 756,499
18 Claims. (Cl. 280—106)



1. A frame for a road roller including, spaced longitudinal beams, a platform carried by and between the beams, and a roller carrying head carried by the beams adjacent the platform including side plates extending up from the beams, a transversely disposed head beam carried by and between the plates, and a horizontal stiffening plate between the plates forming a seat and joined to the head beam.

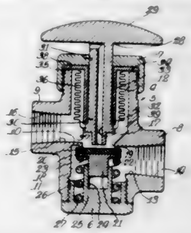
2,534,508
ELECTRON TUBE
Warren R. Ferris, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application April 3, 1944, Serial No. 529,281. Divided and this application February 28, 1946, Serial No. 650,957
7 Claims. (Cl. 250—27.5)



7. An electron discharge device comprising a cathode having two surfaces facing in different directions, a control grid adjacent said cathode surfaces, an electrode spaced from said cathode for receiving electrons therefrom, deflecting means adjacent said cathode and said electrode for causing electrons to travel from said two cathode surfaces to said electrode along two separate paths of unequal length providing transit time periods for the two electron currents between said cathode surfaces and said electrode differing from each other by approximately an odd number of half periods of the frequency of the control grid voltage.

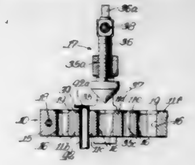
2,534,509
VALVE
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 13, 1945, Serial No. 604,899
1 Claim. (Cl. 251—137)

A self-exhausting valve comprising an elongated casing having a bore extending longitudinally thereof, a radially inwardly extending annular flange dividing the bore into a pair of chambers and having a bead forming an annular valve seat, an inlet port and an outlet port in said valve casing communicating one with each of the chambers, a valve element disposed in the chamber communicating with the inlet port cooperating with said annular valve seat to control the flow of fluid from the inlet to the outlet port, a closure for the end of the bore to complete the inlet chamber having means guiding said valve element for limited sliding movement axially of the bore, a compression spring interposed between said valve element and said closure urging said valve element to seated position, a closure for the other end of the bore, a guide member disposed in the chamber communicating with said outlet port and secured by said last named closure member comprising a sleeve concentric of and of a diameter smaller than said



bore to form an annular space with the bore and a radially extending flange for clamping between the last named closure and the end of said casing, an actuator for said valve element having a stem extending slidably through said last named closure member and said guide member and in the normal position of said actuator terminating slightly short of said valve element, an exhaust passage formed in said stem opening at its inner end through the end face of said stem and opening at its outer end outwardly of said valve casing, and means for preventing leakage of fluid along said stem comprising a cylindrical resilient bellows disposed in the annular space in surrounding relation to said stem and said sleeve-like member and having a fluid-tight connection with said stem near its inner end and a fluid-tight seal with the flange of said guide member at the outer end of said bellows, said bellows urging said actuator to normal position.

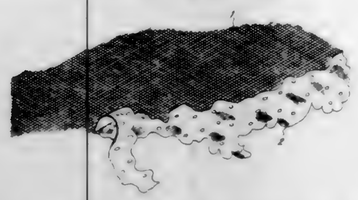
2,534,510
UNITARY FLARING TOOL
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 10, 1948, Serial No. 43,506
2 Claims. (Cl. 153—79)



2. In a tube working tool, an elongated tube clamping means having a plurality of bores arranged in a line, each bore having a different diameter and each bore having a generally cylindrical portion and a conical counter-sunk por-

tion extending from one face of said clamping means into the bore a depth directly proportional to the diameter of the bore, a slide member mounted on said clamping means, said member having a channel engaging the clamping means in a manner permitting sliding movement of said member along the clamping means in the line of the bores, a flaring device threadably mounted on said member for movement relative thereto axially of said bores, a gauge on said member for indicating the proper degree of insertion of a tube into each bore of the clamping means, said gauge comprising a plate rigidly fixed to said member and positioned out of the line of movement of the flaring device, said plate extending from said member along the line of the bores, at right angles to the axes of the bores and spaced a predetermined distance from said one face of said clamping means, and a clamping force generating means operating independently of said member to generate a force firmly to clamp a tube in a bore, with said member being slidable along said clamping means to bring the flaring device axially in line with a firmly clamped tube.

2,534,511
LADY'S DECORATED VEIL AND METHOD OF MAKING SAME
Adolf Frank, Long Beach, N. Y.
Application November 2, 1948, Serial No. 57,863
7 Claims. (Cl. 154—127)

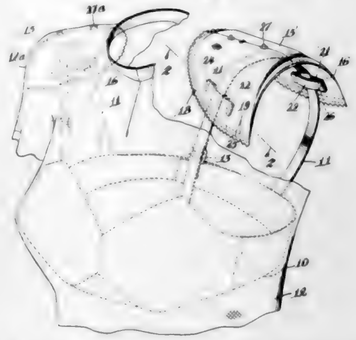


1. A method of making decorated veils which comprises providing a fine netting of cellulose fibers having openings at least fifteen times the thickness of the threads, and a separate lace design fabric, treating the threads thereof with an alkali solution to mercerize the same, washing out excess of alkali therefrom, impregnating said netting and lace with an adhesive the major portion of which is in water solution, said adhesive containing an acid substance, removing adhering cement from the surfaces of said netting and lace, evaporating the solvent therefrom, placing said netting and lace in contact and subjecting the same to heat and pressure.

2,534,512
GRAPPLE
William T. Fulton, Tacoma, Wash.
Application June 6, 1945, Serial No. 597,887
3 Claims. (Cl. 294—28)

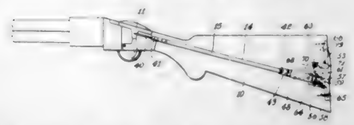
1. A bottle carrier, comprising: a first member including a bowed portion forming a first jaw merging at each end with an upstanding arm, each of said arms being in the form of a bell-crank directed to that side away from the mouth of said bowed portion and a pivot element at the apex thereof, said arms merging above said pivot elements into a handle, a second member including a bowed portion forming a second jaw, said second member being associated with said first member so that the jaws are in opposition and said second member having an arm upstanding at each end of the bowed portion, each arm including a pivot element co-operable with the pivot element of the adjacent leg of the first member, the sides of the first jaw being of a length to pass the arms of the second jaw so that when a bottle is being gripped said arms diverge as the jaws close, said structure being arranged so that a vertical plane, including the handle and the center of gravity of the load carried by said jaws, excludes said pivot elements.

2,534,513
SHOULDER PAD CONSTRUCTION
Everett D. Gerry, New York, N. Y.
Application August 12, 1948, Serial No. 43,945
6 Claims. (Cl. 2—268)



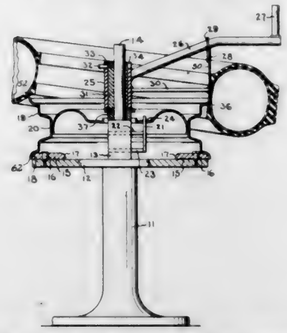
6. A shoulder pad assembly for the shoulders of garments and for engaging the shoulder strap of an undergarment, comprising a pre-shaped resilient and pliable core, a jacket to completely enclose said core, frictional engaging members selectively openable and closable and affixed to the lower wall of the jacket to non-slidably receive and maintain the position of the shoulder strap of the undergarment, fastening means in spaced relationship on the upper wall of the jacket and cooperating and spaced fastening means secured to the shoulder of the garment for removable engagement with the first mentioned fastening means.

2,534,514
SAFETY DEVICE FOR FIREARMS
Hans P. Hansen, Bronx, N. Y.
Application April 14, 1948, Serial No. 20,972
1 Claim. (Cl. 42—70)



In a device of the class described, a gun stock, a shoulder contact pivoted in a housing, a bracket attached to the lower end of said housing, a screw securing said bracket to the housing and the gun stock, a spring mounted on a shaft, said spring abutting at one end a bracket and at the other end a washer the latter resting against an enlargement of the shoulder contact, a pin through the shaft and shoulder contact, the bracket being provided with an enlarged opening adapted to receive said shaft, a lug pivotally arranged within the housing, a stud disposed within the latter and adapted to arrest the motion of said lug when in horizontal position, the shoulder contact having a recess at the bottom thereof, a second stud the latter being mounted in said recess, said lug being in vertical position adapted to engage said second stud in locking the shoulder contact, thereby preventing the safety mechanism from being released.

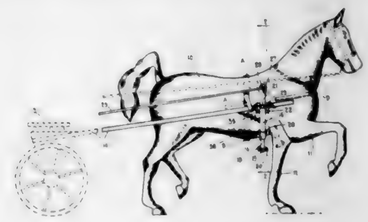
2,534,515
CIRCUMFERENTIALLY TRAVELING SUPPORT MOUNTED, TIRE MOUNTING APPARATUS
Robert D. Henderson, Cincinnati, Ohio
Application May 16, 1946, Serial No. 670,271
2 Claims. (Cl. 157—1.24)



1. A tire tool for mounting tire casings onto drop center rims, said tool including a lever one end of which is journaled for rotation relative to the axial center of a rim, a one piece member fixedly secured to and carried by said lever, said member formed to provide leading, intermediate and trailing portions disposed in a plane in substantial parallelism with the axis of rotation of said lever, wherein said leading portion terminates in an inturned edge disposed interiorly of the outer periphery of a rim, said intermediate portion including a lower edge constructed and arranged to freely ride upon the outer periphery of a rim, said trailing portion including a depending element which overhangs the outer periphery of a rim, said leading and intermediate portion constructed and arranged to sequentially dispose consecutive segments of the beads of a casing outwardly beyond the outer periphery of the rim, thence to and under the depending element of the trailing portion for depressing the beads beneath the outer edge of the rim incident to rotation thereof relative to a rim and its associated tire casing.

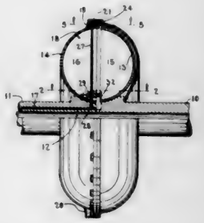
2,534,516
ANIMAL TRAINING DEVICE
Erie E. Howschultz, Little Sioux, Iowa
Application September 17, 1949, Serial No. 116,355
7 Claims. (Cl. 54—71)

5. An animal training harness comprising a leg engaging member, support means for suspending the said leg engaging member below the breast of an animal and behind the forelegs thereof, means pivotally attaching the said leg engaging member to the support means, lines extended from ends



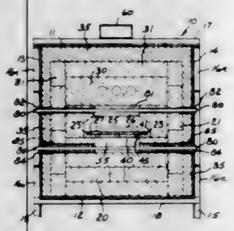
of said leg engaging member that extend upwardly from said pivotal attaching means, means limiting rearward movement of said leg engaging member, and resilient means urging said leg engaging member against the said limiting means.

2,534,517
OVERRUNNING ROTARY FLUID COUPLING DEVICE
Robert W. Jenny, East Paterson, N. J., assignor to Curtiss-Wright Corporation, Bloomfield, N. J., a corporation of Delaware
Application August 31, 1945, Serial No. 613,738
2 Claims. (Cl. 60—54)



1. In a fluid coupling, the combination of a driving member provided with an impeller element, and a driven member provided with a runner element, said runner element provided with an open bleeding port for discharging the actuating fluid from the same in the normal driving operation of the coupling and also provided with a discharge port of greater discharging capacity than the bleeding port for quickly emptying the runner under its centrifugal action, a valve for controlling the discharge port, a shaft for adjusting the valve relative to its associated port as the shaft is rotated, a baffle plate carried by the impeller and disposed in its plane of rotation and said shaft provided with a spring biased segment fixed thereto and normally having one curved edge engaging said plate, and said plate normally reacting on the segment to maintain the valve closed when the impeller and runner are turning in the same direction with the impeller tending to overrun the runner and said plate acting on the segment to open the valve when the runner and impeller are turning in the same direction with the runner tending to overrun the impeller.

2,534,518
ELECTRICALLY HEATED TUNNEL KILN
George N. Jeppson, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application April 1, 1949, Serial No. 84,898
4 Claims. (Cl. 13—20)

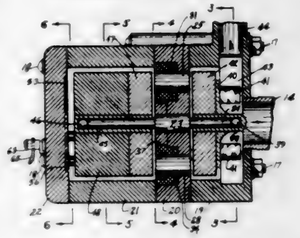


1. In a tunnel kiln, a refractory structure forming an elongated tunnel, said tunnel having a firing zone constructed to have a vault and a well, an upper bank of substantially horizontal and parallel electrical rod resistors extending from side to side of and through said refractory structure and through said vault, a lower bank of substantially horizontal and parallel electrical rod resistors below said first bank extending from side to side of and through said refractory structure and through said well, said tunnel being further formed and shaped to have ledges which are substantially horizontal in the transverse direction one on either side of and above said well and bounding said well on the top thereof, a plurality of rectangular refractory plates in continuous contiguous relation in said tunnel spanning said well and resting on said ledges and extending from side to side of said tunnel and, in the firing zone, having foramina therein for the passage of radiant energy therethrough, and flat rectangular refractory batts also in continuous contiguous relation in said tunnel supported by said plates, there being a clear space between the bottom of the plates and the lower bank of electrical rod resistors in said well.

2,534,519
VALANCE STRUCTURE
George Kahn, New York, N. Y.
Application October 22, 1949, Serial No. 122,894
7 Claims. (Cl. 160—330)

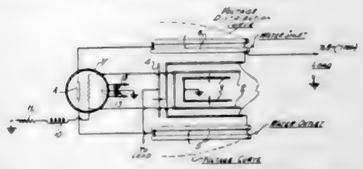
7. In a valance for a curtain having an upper substantially horizontal edge and a short drape depending therefrom including a jabot at the side thereof depending substantially below said drape, a passageway for a rod along said edge, the improvement which comprises a passage at the lower end of said jabot a substantial distance below said passageway said passage constituting means to thread said end on said rod and allow said jabot to hang in the form of a loop, said passage having its axis at approximately right angles to the axis of said passageway when said valance is mounted and said jabot hangs freely.

2,534,520
MAGNETIC FUEL PUMP
Morris Katcher, New York, N. Y.
Application April 14, 1945, Serial No. 588,341
8 Claims. (Cl. 103—87)



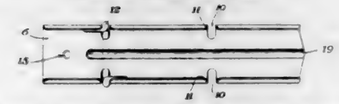
1. A magnetically driven fuel pump comprising a housing consisting of a plurality of sections, means for attaching the sections to each other, a centrifugal pump impeller and a magnetically influenced member in the first of the sections, another magnetically influenced member in a second section, a partition between said magnetically influenced members, sealing off the first and second sections from each other, field poles and an axially extending shaft fixedly mounted in said partition, the shaft projecting into the first and second sections, the impeller and the first of said members being rotatably mounted on the shaft and fixed to each other, the impeller being driven by said first member, a brush holder and a plurality of brushes carried by the holder set in the second section adjacent the second of said members, the holder and said second member being rotatably mounted on the shaft and fixed to each other, commutator pieces for connection to a source of electric energy, in electrical connection with the field poles, fixedly mounted on a third section, the brushes, when rotating, sliding over the commutator pieces, for controlling their connection to the source, for effecting thereby the rotation of the impeller.

2,534,521
OSCILLATION GENERATOR
Louis A. King, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 3, 1945, Serial No. 620,152
17 Claims. (Cl. 250—36)



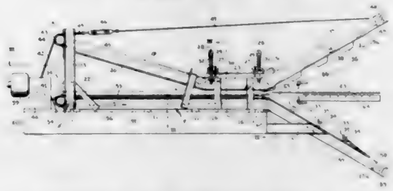
16. In an electron discharge device oscillation generator, an electron discharge device having a pair of electrodes and a frequency determining circuit coupled therebetween, said circuit including an inductance forming part of a resonant line and comprising a pair of adjustably spaced, substantially equal length and coextensive conductors which are physically parallel, means respectively connecting the corresponding ends of said conductors together, whereby said conductors are in electrically parallel relation, and means coupling said pair of conductors at said ends to said electrodes.

2,534,522
RECORD BINDER
Harry F. Kriegel, Queens Village, N. Y.
Application July 16, 1946, Serial No. 683,957
1 Claim. (Cl. 281—25)



In a ring book binder in combination, an elongated latch member formed with transverse marginal recesses and a groove along each of its longitudinal edges intersecting said recesses, a backing plate facing the underside of said latch member to overlie said grooves, said latch member and said backing plate being permanently secured to each other, a plurality of open ring members terminating in transverse leg portions pointing in opposite directions, each of said rings being fitted into a respective one of said marginal recesses and said leg portions being held in said grooves whereby said rings cannot be removed from said latch member without damage thereto.

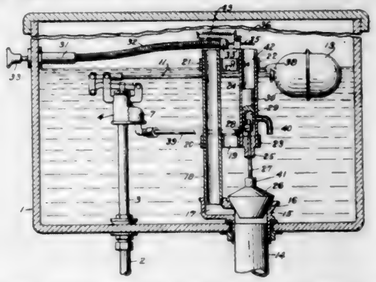
2,534,523
APPARATUS FOR SHAPING STRUCTURAL GLASS
John M. McCormick, Butler, Pa., assignor to Frank W. Preston, Butler, Pa.
Application January 19, 1948, Serial No. 3,013
3 Claims. (Cl. 49—7)



1. Apparatus for shaping sheets of plastic material, comprising upper and lower guide rails that are in parallelism at their mid portions and having their end portions relatively flared, a set of bending ribs movable on each of the guide rails, means hingedly connecting the ribs of each set in chain-like arrangement and in staggered relation to the ribs of the other set, in directions generally parallel to the path of travel of sheets through the apparatus, the sets of ribs being so positioned with respect to each other that the ribs of each set will be moved between the ribs of the other set while the two sets of ribs are entering the said parallel portions of the guide rails, to thereby bend a sheet, and means for imparting reciprocating movements to said set of ribs, longitudinally of the rails, to move them into and out of co-operative relation at the said parallel portions of the guide rails.

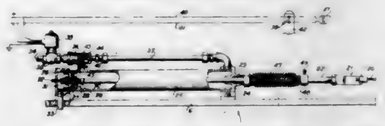
2,534,524
FLUID OPERATED TOILET FLUSHER
James F. Molloy, Oakland, Calif.
Application May 31, 1946, Serial No. 673,418
6 Claims. (Cl. 4—30)

1. In combination with a flushing apparatus including a tank having a flushing outlet; a guide tube with a closed bottom and mounted within said tank above said flushing outlet and having a side outlet into said tank; a buoyant valve closing said flushing outlet and having a magnetic stem extending through said closed bottom and into said guide tube; a magnetic plunger slidable within said guide tube and normally closing said side outlet therefrom and contacting said magnetic stem; a water inlet valve discharging into said guide tube beneath said plunger and



causing it to rise and open said side outlet, magnetically lift said buoyant valve and open said flushing outlet when said inlet valve is opened; and a float control respectively opening and closing said inlet valve as the water level rises and falls in said tank.

2,534,525
CLOSURE OPERATOR
James F. Molloy, Oakland, Calif.
Application July 14, 1947, Serial No. 760,755
5 Claims. (Cl. 121—44)



1. A fluid pressure unit comprising a cylinder having a stuffing box closing its forward end; a pressure supply tube discharging into the forward portion of said cylinder and connected with a source of fluid pressure and having a stop valve therein, a piston slidable within said cylinder and having a bypass therethrough open to said cylinder on opposite sides of said piston and a piston rod extending through said stuffing box; an intermediate valve interposed in said pressure supply tube and having a side outlet discharging into said cylinder behind said piston when the piston is in an advanced position and said stop valve is closed, so that the contents of the cylinder ahead of said piston may discharge through said supply tube, intermediate valve, and into said cylinder behind said piston when said piston moves forward.

2,534,526
ELECTRODE HOLDER
David Murdock, Cincinnati, Ohio
Application November 13, 1948, Serial No. 59,954
11 Claims. (Cl. 219—8)

1. An electrode holder comprising a pair of resiliently movable conducting jaws for holding an electrode, conical roller cams, one for each jaw, journalled in and fixed to the jaws respec-

tively and projecting laterally therefrom, a wedge capable of being driven into relative rolling engagement with said cams and means for alternately forcing said wedge into and out of coactive engagement with said cams, whereby said jaws are opened and closed in unison.

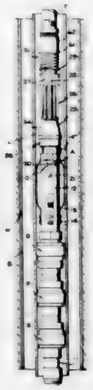
2,534,527
WORK HOLDER
Herman A. Myers, Whittier, Calif.
Application May 4, 1948, Serial No. 24,993
21 Claims. (Cl. 279—4)

7. A work holder of the character described including, an elongate tubular sectional body defining an inwardly opening annular chamber concentric with the body and having a tapered seat, a gripper carried by the body and having a tubular core, ends on the core and sealing lips on the ends engaging the body, one of the ends being divided into jaws engaged with said seat, and a valve controlled passage conducting fluid under pressure into the chamber to operate the gripper

2,534,528
COMBINED ANCHOR AND PACKER FOR USE IN WELLS
John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California
Application November 2, 1946, Serial No. 707,435
6 Claims. (Cl. 166—12)

1. In a tool of the character described, an elongate tubular body, a tapered wedge member shiftable longitudinally on the body, slips mounted on the body to shift bodily relative thereto and engaged by the wedge member and expansible into gripping engagement with a surrounding tubular well part by the wedge member upon longitudinal movement of said wedge member on said body relative to said slips, a sleeve slidable longitudinally on the body, spring fingers carried by the sleeve frictionally engageable with a surrounding tubular well part, means swivelly coupling the sleeve and wedge member together to move together longitudinally of the body, the sleeve having an inverted L-shaped slot therein, a pin projecting from the body and into the slot controlling movement of the sleeve and wedge member longitudinally of the body, and a packer located below the sleeve and surrounding the tubular body, the packer being freely rotatable on the body and shiftable longitudinally thereof with the sleeve and being engageable with a surrounding tubular well part to establish fluid tight sealing engagement therewith.

2,534,529
SLIP MECHANISM FOR WELL TOOLS
John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California
Application November 2, 1946, Serial No. 707,436
6 Claims. (Cl. 166—12)

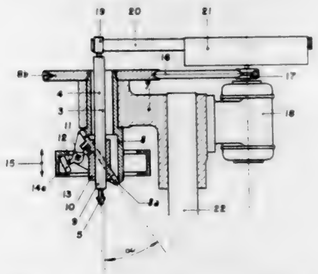


1. A slip mechanism including, an elongate body, slips, a wedge member slidably carried by the body to engage and operate the slips, a sleeve carried by the body, notched lugs projecting from the sleeve, arms on the slips with ears engaged in the notches in the lugs, a collar slidable on the body and engaging the arms, and a spring holding the collar in engagement with the arms to hold the ears in engagement with the lugs.

2,534,530
CONTROLLED PACKING CONSTRUCTION FOR PUMPS OR THE LIKE
Alois B. Perry, Los Angeles, and Leland S. Hamer, Long Beach, Calif.
Application July 22, 1947, Serial No. 762,584
5 Claims. (Cl. 286—8)

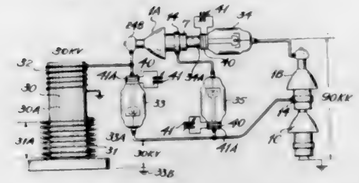
1. A structure of the character described including, a case carrying a packing assembly, a shaft, a sleeve on the shaft engaged by packing of said assembly and having a portion spaced from the shaft forming a chamber and having a passage conducting fluid from the packing assembly to the chamber, and an outlet duct conducting fluid from the chamber including a conduit carried in a channel in the shaft.

2,534,531
MACHINE FOR GRINDING INTERNAL CONE SURFACES
Wolfgang Rossmanith, Solothurn, Switzerland
Application December 15, 1945, Serial No. 635,274
In Switzerland November 8, 1945
1 Claim. (Cl. 51—43)



A machine for grinding hollow cone surfaces comprising a frame member, a hollow spindle rotatably supported within said frame, a grinding spindle rotatable within said hollow spindle and being axially and radially displaceable therein, said grinding spindle having a conical grinding member and being reciprocatingly supported within said hollow spindle, said hollow spindle having an enlarged chamber at its lower end and a guiding means in said chamber arranged at an angle to the axis of said hollow spindle, the angle being equal to one half the cone angle of said grinding member; a spindle slide fixed to said grinding spindle and being vertically reciprocable within said chamber, said slide being guided by said guiding means to cause axial displacement of said grinding spindle; a ring member positioned around said hollow spindle for reciprocable movement along the axis of the hollow spindle, a crank lever pivoted on said hollow spindle having one arm engaging said spindle slide and another arm rotatably supported in said ring, whereby vertical reciprocating movement of said ring causes said lever to swing on its pivot and cause corresponding reciprocation of said slide and grinding spindle, said reciprocation causing axial displacement of said slide and spindle along said guiding means.

2,534,532
HIGH-VOLTAGE RECTIFIER
Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 14, 1945, Serial No. 605,131
19 Claims. (Cl. 321—15)



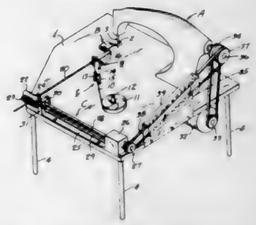
1. An electric condenser comprising a hollow cylindrical dielectric member having a re-entrant portion, a neck portion having a width such as to permit telescoping of a similar condenser at the re-entrant portion of said similar condenser, a metallic electrode coating on substantially the entire inside wall of said dielectric member and a metallic electrode coating on a portion of the outside wall of said dielectric member.

17. A high voltage rectifier circuit operable to rectify currents having high frequency components including a rectifier of the type having an anode and a filament with inter-electrode capacity therebetween, means tuned to resonate at the high frequency components including an autotransformer having an inductive winding and shunt capacitance, said winding including a tapped portion to heat the filament of said rectifier, said transformer winding and shunt capacitance being tuned substantially to the resonant frequency of the input source of said rectifier circuit, means connecting the transformer winding in series with the rectifier anode-filament inter-electrode capacity whereby the high frequency components that are applied for rectification are effective to energize the transformer, and means connecting said filament to the tapped portion of the inductive winding.

2,534,533
METHODS OF PREPARING ALKALI METAL BOROHYDRIDES
Hermann I. Schlesinger, Chicago, Ill., and Herbert C. Brown, Detroit, Mich.
No Drawing. Application November 5, 1945, Serial No. 626,900
20 Claims. (Cl. 23—14)

10. The method of preparing an alkali metal borohydride which comprises heating an alkali metal hydride at a temperature not substantially less than 200° C. with a member of the class consisting of alkyl borates, alkoxy borohydrides and boric oxide, the proportion of alkali metal hydride being in excess of one mole of the alkali metal hydride per mole of said member of said class.

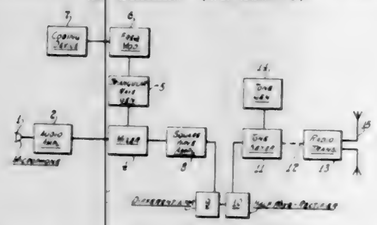
2,534,534
SEWING MACHINE FOR MAKING TUBULAR TRIMMINGS
Lloyd W. Senter, Overland, Mo., assignor to Portnoy Garment Company, St. Louis, Mo., a corporation of Missouri
Application November 27, 1946, Serial No. 712,713
4 Claims. (Cl. 112—63)



1. A tape folding and reversing assembly for use in a sewing machine of the character described, the assembly including a folder head of substantially cylindrical form having a tape delivery end, said folder head tapering laterally at its longitudinal axis into a pair of flat plate-like elements, each of which is provided with a plurality of aligned slots extending in a direction approximately perpendicular to the longitudinal axis of the folder head, a reversing member with one end upturned and being provided with a plurality of slots each of said last named slots being located for alignment with one of the slots of the folder head in the provision of sets of

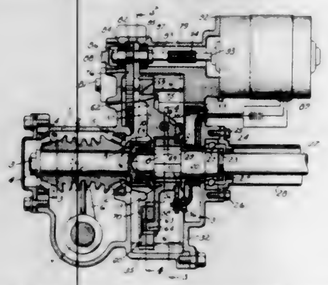
matching slots, a tubular member secured to the outer edge of the upturned end of said reversing member, said reversing member being positioned within the folder head whereby the tubular member is located within the cylindrical portion of the folder head, said tubular member having relatively thick walls and tapering form, one end of said tubular member projecting outwardly of the tape delivery end of the folder head, the wall of the tubular member located within said folder head being cut away, said folder head and reversing member being secured together and to the sewing machine by bolts extending through the matching sets of aligned slots in said reversing member and folder head whereby to permit relative positional adjustment between the reversing member and the folder head, said folder head acting to fold the tape exteriorly about said tubular member to present its margin for sewing in the sewing machine, said tubular member acting to reverse the sewed tape at its outer end and permit relatively unrestricted movement of the reversed tape.

2,534,535
SECRECY SYSTEM
J Ernest Smith, Jackson Heights, N. Y., and Richard E. Mathes, Silver Spring, Md., assignors to Radio Corporation of America, a corporation of Delaware
Application December 7, 1942, Serial No. 468,084
20 Claims. (Cl. 250—6)



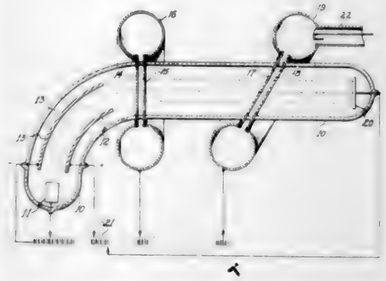
20. In a communication system, the method of operation which includes producing pulses that vary both in weight and repetition rate, at least one of said variations being in accordance with variations in a signal.

2,534,536
MANUALLY CONTROLLED ELECTRIC POWER ASSISTOR
Edwin G. Staude, Los Angeles, Calif., assignor of one-half to Olive B. Staude, Los Angeles, Calif.
Application October 14, 1949, Serial No. 121,288
7 Claims. (Cl. 74—388)



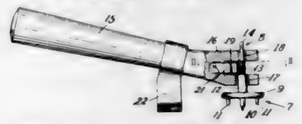
1. In a manually controlled electric power assistor comprising: a manually controlled shaft; a power output shaft; a speed reducing gear for a reversible electric motor; a clutch mechanism connecting said power output shaft with said speed reducing gear arranged to operate only when said speed reducing gear is in motion, said clutch mechanism including two members locked into engagement with each other in either forward or reverse by either one of a pair of adjacent rollers operating on opposed inclined surfaces on one member, said other member having a smooth surface bearing against the said rollers and connected with the said speed reducing gears; a two member lost motion coupling, one member being a lug on said clutch member secured to the power output shaft and the other being connected to the manual control shaft; resilient means to resist differential movement between the said two member lost motion coupling; one of said lost motion coupling members being connected to control said roller clutch including an arm for engaging both the forward and reverse rollers in said clutch and both members of said lost motion coupling cooperating to control electric switches, including an oscillating member pivoted on the manual control shaft axis and operatively connected to the lug on said clutch member; said oscillating member being provided with electric switch operating arms; a pair of electric switches; electric wires connecting said switches with said reversible electric motor; means for taking up slack of said electric wires as a result of motion of said manually controlled shaft.

2,534,537
ELECTRON DISCHARGE DEVICE OF THE VELOCITY MODULATION TYPE
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 25, 1945, Serial No. 612,651
13 Claims. (Cl. 315—6)



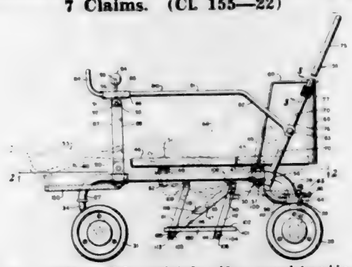
1. An electron discharge device comprising means for supplying a stream of electrons having random initial velocities along an electron beam path, means adjacent the electron supplying means for deflecting said electrons inversely to the random initial velocity of the electrons, means for defining a high frequency field in the path of said electrons and extending transversely to the beam path at a point past the deflecting means, said field causing velocity modulation of said electrons whereby the electrons become grouped, and means for defining a second high frequency field in the path of said electrons and inclined at an angle to the electron path so that all the electrons of each group arrive at said second high frequency field at substantially the same instant of time.

2,534,538
TOP AND SPINNING DEVICE THEREFOR
Oscar Thoresen, Pittsburgh, Pa.
Application December 12, 1945, Serial No. 634,456
3 Claims. (Cl. 46—70)



1. A device for spinning a top provided with a bearing tip at the bottom of the top body and a spindle extending upwardly from the top body, said device comprising a handle portion, a bearing portion adapted releasably to receive the spindle of said top, a draw-string, means for securing said draw-string in rotation-producing engagement with said spindle, and a leg-like element extending downwardly from said handle and arranged to support the handle portion at an interval above a surface upon which to spin the top, with said tip of the top positioned on or immediately above said surface.

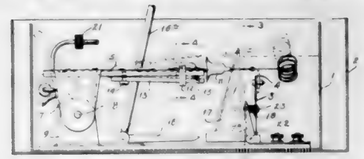
2,534,539
STROLLER
Oscar T. Topper, Santa Monica, Calif.
Application October 15, 1945, Serial No. 622,367
7 Claims. (Cl. 155—22)



2. In a collapsible vehicle, the combination of: a main frame comprising a pair of substantially U-shaped members having the backs thereof secured together and the arms extending laterally in substantially the same plane, said secured backs extending longitudinally of the main frame and being centrally located with respect to the ends of the laterally extending arms; longitudinally extending side members having laterally turned end portions, said side portions being pivoted to the arms of the respective sides of the frame; a wheel attached to each laterally turned end portion of the side members; a handle substantially in the shape of an inverted U and having the arms thereof pivoted to the adjacent arms of the main frame members, parts of said arms being disposed adjacent respective laterally turned end portions of the side members; and means for releasably latching said parts of the handle arms to the adjacent laterally turned end portions of said side members.

2,534,540
METHOD AND APPARATUS FOR MAKING LAMP FILAMENT JOINTS
Alfred H. Weber, Kirkwood, Mo., assignor to North American Electric Lamp Company, St. Louis, Mo., a corporation of Missouri
Application July 31, 1946, Serial No. 687,274
4 Claims. (Cl. 29—25.19)

1. An apparatus for making lamp filament joints comprising an open-top rectangular container for a hydrocarbon material decomposable by heat, a vertical supporting plate pivotally mounted on the bottom of said container, a short-circuiting bar tiltably mounted at the upper end of said plate, a positioning element pivotally mounted adjacent the support plate, an adjusting screw suitably connecting the positioning element and support plate whereby the spatial rela-

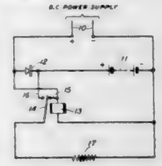


tionship between same may be determined, a frame member pivotally mounted in the bottom of said container in longitudinal axial alignment with the support plate and positioning element, said frame having spaced electroconductive strips, an insulated plate member attached to said strips and provided with clamps, and lever means for lifting said frame.

2,534,541
FRACTIONATION OF TYROTHRICIN
Abraham L. Baron, New York, N. Y., assignor to S. B. Penick & Company, New York, N. Y., a corporation of Delaware
No Drawing. Application February 28, 1948, Serial No. 14,401
10 Claims. (Cl. 167—65)

2. A process of fractionating tyrothricin which comprises dissolving tyrothricin in a solvent system comprising substantial amounts each of water, a lower aliphatic alcohol and a lower aromatic hydrocarbon of the benzene series to form a heterogeneous system, separating the hydrocarbon layer and evaporating it whereby gramicidin is obtained.

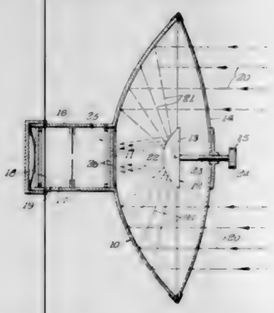
2,534,542
STAND-BY BATTERY SYSTEM
Justus H. Bower, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 27, 1949, Serial No. 123,939
3 Claims. (Cl. 171—97)



3. In combination, terminals for a load, a primary source of supply voltage adapted to supply power to said load, a standby battery also adapted to supply power to said load, means including a single asymmetrically conducting device and said primary source for charging said battery only when the voltage of said source exceeds that of said battery, and a relay, comprising a solenoid and two contacts, in circuit with said primary source to connect said primary source normally through one of said contacts to said terminals without passage of current through said asymmetrically conducting device and actuated, by deenergization of said solenoid, only on the

failure of said primary source to connect said battery through the other of said contacts to said terminals.

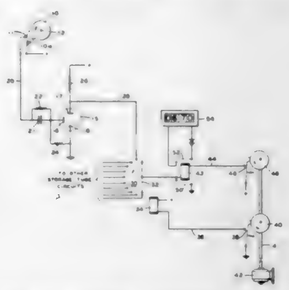
2,534,543
LIGHT CONCENTRATING REFLECTOR CAMERA
Jesse T. Bullock, Kansas City, Kans., assignor of one-third to Andrew J. Bramlette, Los Angeles, and one-third to William R. Harriman, Hondo, Calif.
Original application September 16, 1946, Serial No. 697,205. Divided and this application July 21, 1947, Serial No. 762,379
2 Claims. (Cl. 95—11)



1. A camera comprising, in combination, a concave parabolic reflector having a central light-passing opening, a smaller convex parabolic reflector located centrally within the concave reflector and in front of the opening therein, a transparent cover completely enclosing the light-receiving surface of the concave reflector and, thereby, enclosing the convex reflector, adjusting means connected to the latter reflector and carried by and extending through said cover for effecting adjustment of the two reflectors, relatively, light received by the concave reflector being reflected to the convex reflector and transmitted by the latter through the mentioned opening in the former, light-polarizing means across said opening, and a shutter and film-holding assembly in the path of the polarized light passed by the light-polarizing means.

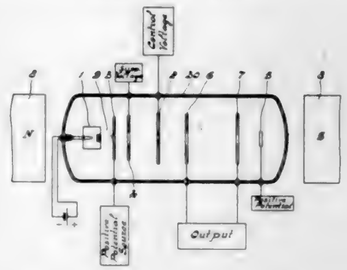
2,534,544
SIGNAL STORAGE CIRCUIT
George L. Bush, Flushing, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application May 24, 1946, Serial No. 671,982
3 Claims. (Cl. 235—92)

1. A signal storage system comprising a switch and means for automatically operating the switch to generate a signal each time a predetermined event occurs, a gas-filled discharge tube having a starter anode, a cathode and a main anode, a starting circuit controlled by said switch when operated for applying a source of starting potential to the starter anode, said starting circuit including a resistance-shunted condenser, a circuit including a source of potential connected to said main anode to maintain the tube fired after it has started thereby to store the signal, circuit means controlled by the main anode circuit for registering the stored signal, and means to prevent the circuit from falsely registering repeatedly when said switch remains in its said operated condition, said means comprising said resistance-shunted condenser connected in circuit with the starter anode and operative when



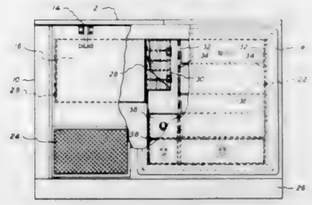
charged by the starting potential to reduce the starter anode potential to a value below that required for starting the tube.

2,534,545
DEVICE COMPRISING AN ELECTRIC DISCHARGE TUBE FOR ULTRA HIGH FREQUENCIES
Frederik Coeterier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,148
In the Netherlands September 10, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires September 10, 1963
3 Claims. (Cl. 315—14)



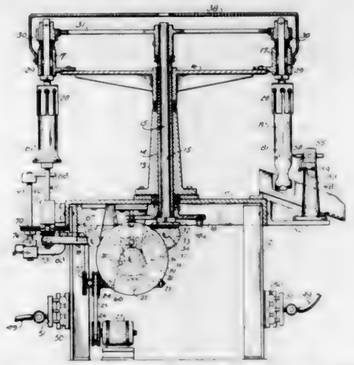
1. An ultra high frequency electron discharge device having a substantially predetermined operating frequency, comprising an evacuated envelope, a cathode within said envelope, a collector electrode within said envelope, a control electrode interposed between said collector electrode and cathode, an accelerating electrode interposed between said control electrode and said cathode, beam forming means including means to produce a magnetic field of predetermined intensity enclosing the electron path and having lines of force substantially parallel to the electron path from the cathode to the collector electrode and terminal means for said control electrode for applying thereto a voltage of predetermined magnitude, said control electrode being spaced at a distance from the cathode at which the transit time of electron travel from said cathode to said control electrode at said predetermined voltage is substantially equal to n half periods of said operating frequency where n is a whole number and that electrons repelled from said control electrode are returned to substantially their point of emission from said cathode.

2,534,546
TWO-TEMPERATURE TABLE TOP REFRIGERATOR
Hobert M. Dunlap, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application November 15, 1946, Serial No. 710,010
3 Claims. (Cl. 62—89)



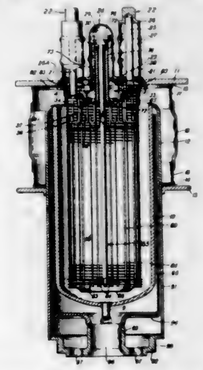
2. A refrigerator cabinet comprising a top opening low temperature compartment, a front opening normal temperature compartment adjacent said first compartment and at one side thereof, a vertical heat exchange dividing wall between said low temperature compartment and said normal temperature compartment, and an ice making compartment within said normal temperature compartment and in heat exchange relationship with said heat exchange dividing wall.

2,534,547
MACHINE FOR CRACKING AND FLARING BLANKS
Charles Eisler, South Orange, N. J.
Application January 31, 1950, Serial No. 141,400
5 Claims. (Cl. 49—1)



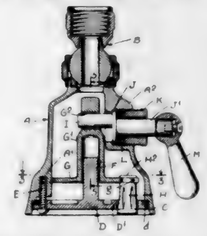
1. A machine for cracking and flaring blanks having lower end cullets to form vacuum bottle blanks, having straight edge rims and flared rims, comprising clamping bearings in which the upper ends of the blanks may be positioned, means engaging said bearings to rotate the same on their axes and to advance the same from station to station in the machine, a scoring tool mounted at a station in the machine and spring means normally urging said tool into the path of the cullet end of the blank at said station to score the blank to break the cullet from the blank and form a straight edge, a flaring tool positioned at a subsequent station of the machine, means to move the flaring tool into the inner end of the blank when the blank reaches said station, to flare the rim, and a feeler device positioned in said machine in advance of the flaring tool and adapted, when engaged by a cullet portion of a blank, to hold the flare tool in inoperative position and prevent the same from moving into engagement with the blank.

2,534,548
HIGH-POWER WATER-COOLED ELECTRON DISCHARGE DEVICE
Clifford E. Fay, Chatham, and Douglas A. S. Hale, Verona, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1948, Serial No. 68,346
14 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising a terminal plate, a first electrode electrically attached to said plate, a plurality of terminals mounted on said plate and insulated therefrom, a plurality of apertured platforms supported by said terminals, each of said platforms being directly attached to said terminals at a plurality of points, said points being on the circumference of circles formed by said terminals, a central standard extending through said platforms, attaching means supported by said standard, a second electrode comprising a plurality of strands supported between said platforms and said attaching means, and spring means tensioning said filament strands.

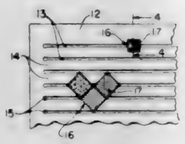
2,534,549
ADJUSTABLE SPRAY SHOWER HEAD
James Fraser, Wilmington, Del., assignor to Speakman Company, Wilmington, Del., a corporation of Delaware
Application August 9, 1948, Serial No. 43,272
3 Claims. (Cl. 299—144)



1. A showerhead comprising a hollow body with an opening at one end, a circular showerhead face member normally extending across said opening and detachably connected to said body, and formed with a plurality of circular orifices spaced

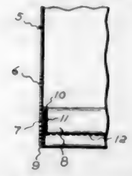
about its axis and having their axes parallel to said axis, a spider element mounted in said body for movement toward and away from said member and comprising a disc portion coaxial with said member and formed with radially extending slots spaced about the axis of the spider element, each of said slots extending across the central portion of a corresponding one of said circular orifices and being open at its outer end, said disc portion having parallel top and bottom surface portions adjacent each slot and transverse to said axis, a plurality of flow obstructors each coaxial with and normally extending through a corresponding one of said orifices and having a lower end portion of a diameter only slightly smaller than the orifice diameter, and having a reduced neck portion adjacent its opposite end and extending through the corresponding one of said slots and of a diameter smaller than the slot width to permit transverse movements of the neck in the slot, and having portions at the upper and lower end of said neck portion with bearing surfaces in sliding engagement with the said top and bottom surfaces adjacent the corresponding slot, each flow obstructor being movable radially into and out of the corresponding slot through the open outer end of the latter when said spider member and orifice plate are displaced from one another and are out of said hollow body, and being held in said slot by said face member when the spider and face plate are in their normal relative positions with the lower portion of each obstructor received in the corresponding face plate orifice, each flow obstructor having an intermediate tapered portion diminishing in cross-section from its cylindrical lower end portion toward said neck portion, and mechanism for adjusting said spider relative to said face member between an upper position in which the cylindrical end portions of the obturators are received in and substantially close said orifices, and a lower portion in which said intermediate portion of each obturator is within the corresponding orifice and the discharge area through each orifice depends on the distance between said member and spider.

2,534,550
PLAY TOY
Jean Frechtmann, Paris, France
Application March 18, 1949, Serial No. 82,121
6 Claims. (Cl. 35—27)



1. A toy of the character described comprising a board provided with a plurality of equidistant narrow slots parallel to each other and closed at their both ends, a frame surrounding said board and adapted to support said board, and counters each having a polygonal top adapted to bear on one face of said board and a flat stem extending beneath said top at right angles to said top from the central portion thereof and adapted to be inserted into or removed from any one of said slots and to be moved in said slot as well in the longitudinal direction of said slots as in a direction at right angles to said board, said counters being adapted to be distributed with their stems in said slots in such manner that the tops form designs of various shapes.

2,534,551
COAT SLEEVE CONSTRUCTION
Joseph Goodman, Cambridge, Mass.
Application May 27, 1949, Serial No. 95,681
3 Claims. (Cl. 2—269)

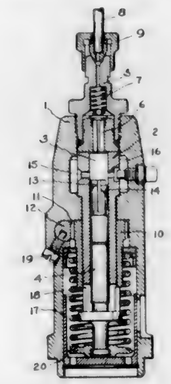


2. A garment sleeve comprising a main part, an end part, and an intermediate part, said parts being defined by folds disposing said intermediate part within said main part and said end part between said main and intermediate parts and with its extremity spaced a substantial distance from the fold establishing the junction therebetween, substantially the entire length of said end part being cemented to said intermediate part to establish a relatively stiff first hem independent of said main part and a line of stitching adjacent the fold between said main and intermediate parts locking said intermediate part to said main part to establish a second hem independent of said end part and releasable to enable said sleeve to be lengthened by unfolding said intermediate part.

2,534,552
PORTABLE PROJECTION PICTURE SCREEN SUPPORT
John T. Heck, Elmhurst, and Leo J. Du Mais and Curtis O. Talbot, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois
Application October 25, 1947, Serial No. 782,202
7 Claims. (Cl. 160—24)

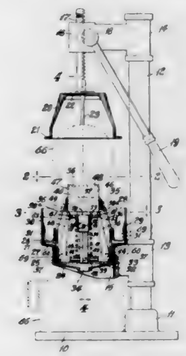
5. A collapsible picture screen support comprising a base having a bottom tube extending upwardly therefrom, a center member of greater length than said bottom tube slidably telescoped into said bottom tube, a rider slidably mounted on said center member above said bottom tube, said rider having a screen casing mounted thereon, a top tube slidably telescoped over said center member, releasable lock means on each said bottom tube and top tube engaging said center member at predetermined positions of extension of the telescoping parts, and releasable lock means on said rider for holding said rider at predetermined positions along said center tube.

2,534,553
FUEL INJECTION APPARATUS
Hans Hogeman, Longmeadow, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application November 13, 1948, Serial No. 59,857
3 Claims. (Cl. 103—41)



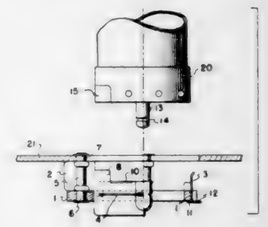
1. In a device of the character described, a pump housing having a bore therein, a plunger mounted in said bore for reciprocation therein, fill and spill means communicating with said bore, said plunger having fuel metering means on the opposite sides thereof and means whereby either of said fuel metering means may be positioned in operative position relative to said fill and spill means, said fuel metering means being located at different levels on said plunger.

2,534,554
FRUIT PRESS
George F. Kahre, Portland, Oreg.
Application May 23, 1947, Serial No. 750,128
14 Claims. (Cl. 100—42)



12. A fruit press having a horizontally disposed ring-like holder, a juice collecting pan demountably secured in said holder, a residue collecting pan removably mounted on said other pan and having an inner disposed perforated annular trough, a slotted cone-shaped member demountably secured in said juice collecting pan and carrying a cylindrical knife, actuating means for said knife, and an inverted funnel-shaped member reciprocably mounted in axial alinement with said other member and having a centrally disposed part for operative engagement with the actuating means of said knife.

2,534,555
TUBE HOLDER
Johan George Kronouer and Bernard Leonard van Kouwen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,140
In the Netherlands June 28, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 28, 1965
7 Claims. (Cl. 173—328)

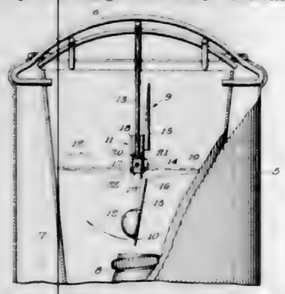


1. A holder for an electronic tube having a longitudinally extending locating pin, said holder being adapted to be secured to a base having recesses and comprising a substantially annular insulating body having diametrically opposed radially extending slots in the inner wall thereof and having diametrically opposed longitudinal recesses, and a metallic member comprising two metallic plates each having three semi-cylindrical recesses and joined together with said recesses of each plate in opposition to form three tubular portions, each of the outer two of said tubular portions having side walls extending longitudinally and being provided with flanges on each end, one flange of each of which engages one of said recesses in said annular member and the other said flange of each being adapted to engage a recess in said base, two spring members engaged diametrically in said slots, the third said tubular portion having side walls extending longitudinally, said third tubular portion side walls having two diametrically opposed transverse slots through each of which passes one said spring member, said third tubular portion being adapted to receive said locating pin and said spring members being adapted to engage said locating pin within said third tubular portion.

2,534,556
SAFETY DAMPER PREVENTING HEAT EMANATION FROM ABNORMAL POSITIONED HEATERS
George J. Moeller, Altadena, Calif., assignor to Anthony Oberholtz, Los Angeles, Calif.
Application September 29, 1947, Serial No. 776,697
6 Claims. (Cl. 126—58)

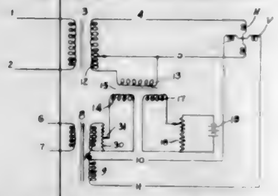
1. In combination, a heater having a heat-emanating tube and a heat passing grill thereabove, a support member extending vertically

from the grill into the tube, a horizontally movable swivel on the end of the support member, a transverse pivot on the swivel, a vane substantially centrally carried by the pivot, an off-center over-balancing weight on the vane below said pivot for positioning said vane vertically in the



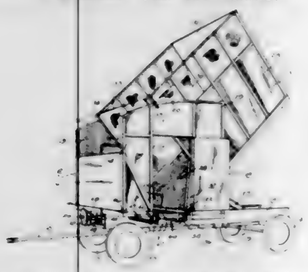
tube and for effecting swivelability of the vane upon tipping over of the heater, whereby said vane seeks to retain its vertical disposition during all tipped-over positions of the heater and thereby assumes a transverse position in the tube when the heater is tipped over.

2,534,557
KEYSTONING CIRCUIT
Warren J. Ostreicher, New York, N. Y., assignor to Tele-Tone Radio Corporation, a corporation of New York
Application January 19, 1949, Serial No. 71,569
20 Claims. (Cl. 315—27)



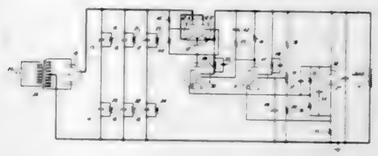
1. In a deflection system for cathode ray tubes, horizontal and vertical deflection means, and a magnetic coupling arranged therebetween and adjustable in its saturation for effecting keystoning.

2,534,558
SELF-UNLOADING VEHICLE
Martin C. Ottenbacher, Fredonia, Wis.
Application December 27, 1948, Serial No. 67,398
5 Claims. (Cl. 214—83.16)



1. In a device of the character described, the combination with a frame provided with a cross conveyor, of a plurality of storage chamber body sections, at least one of which comprises a floor in hinged connection with said frame adjacent the conveyor, said sections having lapping side walls, the side walls of the section with the hinged floor being connected with the floor for hinged movement respecting the side walls of the other section.

2,534,559
VOLTAGE REGULATION
Roy W. Prince, Jr., New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 5, 1947, Serial No. 739,561
5 Claims. (Cl. 323—22)



1. A voltage regulator for controlling the voltage across a load to which current is supplied from a direct current source comprising two regulator space current devices each having an anode, a cathode and a control electrode, means for connecting the space current paths of said devices in series with each other and with the load with respect to said current source, an amplifier space current device having an anode, a cathode and a control electrode, means for supplying current from said source to said amplifier space current device, means for controlling the resistance of the space current path of said amplifier space current device in response to load voltage changes, and means responsive to resistance changes of the space current path of said amplifier space current device for simultaneously similarly changing by the same order of magnitude the resistances of the space current paths of both said regulator space current devices.

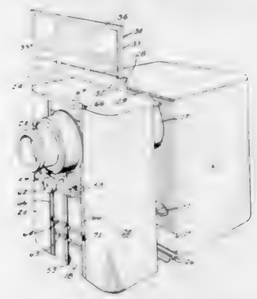
2,534,560
SACCHARATE-ION EXCHANGE PROCESS
Ralph W. Shafor, Los Gatos, Calif., assignor to International Minerals & Chemical Corporation, a corporation of New York
No Drawing. Application July 7, 1948, Serial No. 37,495
9 Claims. (Cl. 127—47)

1. A process for the purification of sugar solution prepared by acidifying calcium saccharate which is produced by liming a sugar-bearing solution, which comprises subjecting the resultant sugar solution to the sequential action of cation exchange material operating in the hydrogen cycle and acid-adsorbing anion exchange material.

2,534,561
DEVICE FOR DISPLAYING PHOTOGRAPHIC TRANSPARENCIES
John Silver, Hollywood, Calif.
Application June 15, 1946, Serial No. 676,896
1 Claim. (Cl. 88—28)

In a device of the character described, a frame for a plurality of pictures arranged in rows, an optical system, means to shift said frame relative to said optical system to align different rows of said pictures with said optical system, means to latch said frame in each of several positions

supporting respective picture rows of fixed proximity to one another in alignment with the optical axis, means to render said last-named means ineffective, and means to latch said frame

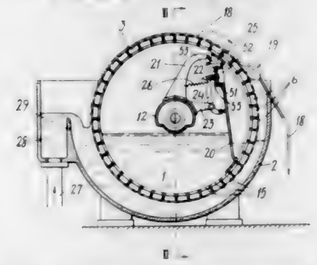


in each of a series of positions aligning respective picture rows differing in proximity to one another with respect to the picture rows first named, with said optical system.

2,534,562
METHOD OF PREPARING ZINC SELENIDE
Soren M. Thomsen, Pennington, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application April 28, 1948, Serial No. 23,872
4 Claims. (Cl. 23—50)

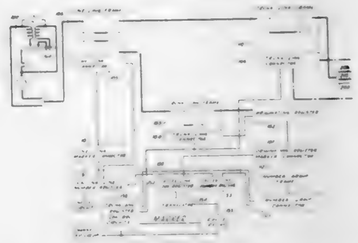
1. A method of preparing zinc selenide which comprises preparing a solution of selenium in Na_2SO_3 and adding to this solution an acidified solution consisting essentially of a soluble hyposulfite, zinc ion and a weak acid whereby a precipitate of zinc selenide is obtained.

2,534,563
FILTER DRUM AND SHIELDING SHOE
Josef Vitalis Vitalius, Karlstad, Sweden, and Nils Klykken, Hudson Falls, N. Y., assignors to Aktiebolaget Kamyr, Karlstad, Sweden, a company of Sweden
Application February 14, 1948, Serial No. 8,398
In Sweden November 18, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 18, 1966
4 Claims. (Cl. 210—202)



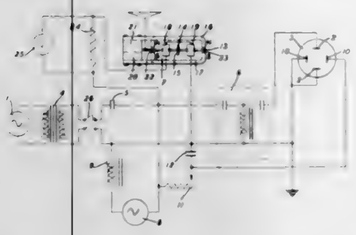
2. A filter of the character described, comprising a tank serving to receive a pulp mixture, a rotary sieve drum adapted to be covered over a portion of its circumference by the pulp mixture in said tank, said sieve drum having a perforated sieve shell, means associated with said sieve drum for maintaining in the interior of said drum a lower pressure than the pressure outside the sieve drum, a stationary shield in the interior of said drum adjustable towards and away from the inner surface of said sieve shell and cooperating with a portion of said inner surface of said sieve shell at a zone at which the web of material is removed from the outer face of said sieve shell so as to shield off said portion of the sieve shell at said zone from the pressure in the interior of said drum, said shield having an aperture in its wall, a pressure actuated member closing said aperture and capable of movement relatively to said shield under the influence of the pressure difference between the pressure outside said sieve drum and the pressure in the interior of said drum, and a pressure transmitting device comprising a double-armed lever pivotally supported in the interior of said drum, means pivotally connecting one arm of said lever to said pressure actuated member, and means pivotally connecting the other arm of said lever to said stationary shield, whereby inward movement of said first mentioned arm of said lever under the action of an inward directed force produced by the differential pressure on said pressure actuated member results in outward movement of said last mentioned arm of said lever producing an outward directed force acting upon said shield, said pressure actuated member and said shield having such relative areas and said arms of said lever having such relative lengths that the product of the area of said pressure actuated member and the length of the lever arm connected to said member is greater than the product of the area of said shield and the length of the lever arm connected to said shield.

2,534,564
RINGER TEST CIRCUIT CONTROLLED FROM STATION UNDER TEST
Paul W. Wadsworth, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1948, Serial No. 57,393
6 Claims. (Cl. 179—175.2)



1. In a telephone system, subscribers' substation equipments each including a ringer, a pulsing mechanism and a switchhook, a central office, lines connecting said substations with said central office, automatic switches at said central office, a ringer testing trunk circuit, a plurality of sources of ringing current, means under the control of the pulsing mechanism at a subscriber's substation for controlling the operation of said switches to connect said substation with said trunk circuit and to select one of said sources of ringing current for connection with said calling substation, and means in said trunk circuit under the control of said switchhook to repeatedly connect and disconnect said one source of ringing current to and from said line while maintaining the established connection between said line and said trunk circuit.

2,534,565
METHOD AND APPARATUS FOR TESTING VIBRATION TRANSLATING DEVICES BY MEANS OF AN OSCILLOSCOPE PATTERN
Chester L. Warren, Union, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 21, 1945, Serial No. 617,861
11 Claims. (Cl. 179—175.1)



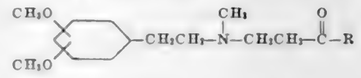
1. The method of testing and adjusting armature type vibration translating devices which comprises subjecting the device to be tested simultaneously to the action of a current of the test frequency and of a second alternating current of low frequency and of an amplitude sufficient to wabble the armature over the required range of armature vibration, producing simultaneous indications of the effect on the device of the current of the test frequency at a plurality of intermediate armature positions, and using said simultaneous indications as a guide in adjusting the constants of said device.

2,534,566
CONTROL FOR VARIABLE-SPEED GEARS ON CYCLES
Thomas Alfred Yapp, Birmingham, England, assignor to The Hercules Cycle and Motor Company Limited, Birmingham, England, a company of Great Britain
Application August 10, 1948, Serial No. 43,402
In Great Britain August 19, 1947
6 Claims. (Cl. 74—489)

1. A control for controlling a variable speed gear for a cycle through a flexible cable which is spring-loaded against movement in one direction, comprising an angularly movable finger lever, an angularly movable quadrant to which said cable is connected, angularly spaced teeth on the periphery of said quadrant, means coupling the quadrant to the lever for movement therewith in a direction to tension the cable, a spring-pressed pawl for engagement with the teeth on the quadrant to retain the said quadrant in successive angularly spaced positions, and means on said lever for moving said pawl out of engagement with an engaged tooth and to release it to engage the subsequent tooth on movement of the lever in a direction to release said cable, whereby the cable will return the quadrant through steps controlled by the teeth on the quadrant.

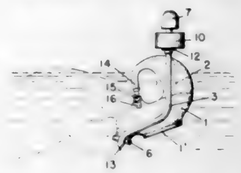
2,534,567
N-PHENETHYL-BETA-ALANINE DERIVATIVES
Richard Baltzly and Arthur P. Phillips, New York, N. Y., and Lowell O. Randall, Nutley, N. J., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 21, 1947, Serial No. 756,336
3 Claims. (Cl. 260—471)

1. A new composition of matter selected from the group consisting of the compounds having the following general formula



in which R is a straight alkoxy chain containing from 1 to 5 carbon atoms and salts thereof.

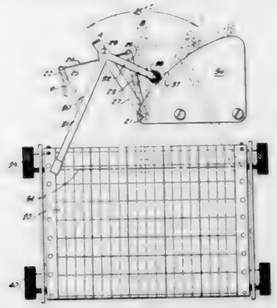
2,534,568
SUBMARINE MASK
Nerino Bedini, Roscild Vesigna, and Pasquale Giuliani, Milan, Italy, assignors to Pirelli Società Per Azioni, Milan, Italy
Application August 27, 1947, Serial No. 770,796
In Italy January 25, 1947
6 Claims. (Cl. 128—145)



1. A submarine breathing device comprising in combination, a helmet to enclose the head of an under water swimmer, a breathing tube having at one end within said helmet a mouth piece, said tube extending to the exterior of said helmet and slightly above the same, a float provided with a hole therethrough permitting it to be slidably positioned on said tube, a spray shield attached to that end of said tube exteriorly of said helmet, an opening provided in the lower portion of said shield to allow the passage of air into said tube, a washer mounted at the upper surface of said float and positioned so as to close the opening in said spray shield to prevent the passage of water when the device is submerged, said float having an effective vertical thickness substantially greater than the radial displacement of the outer margin of said opening with respect to said breathing tube, so that the buoyant force exerted by the float will make said washer effective before water can reach the interior of the spray shield.

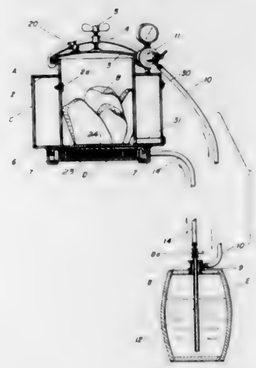
2,534,569
RECORDING INSTRUMENT MECHANISM
Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass.
Application October 18, 1949, Serial No. 122,021
1 Claim. (Cl. 346—112)

A mechanism for converting angular movement to straight line movement for instruments of the type used for recording, indicating, or controlling values of variable conditions such as flows, pressures, temperatures and the like, in which equal angular movements produce equal straight line movements, said mechanism comprising the novel combination of a pivoted arm, movable about its pivot through an arc of the order of 45 degrees, a bell crank lever pivoted on said arm for bodily movement therewith, a cam mounted for operative relation with one leg of said bell crank lever,



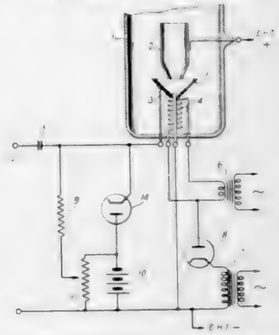
and a pen mounted on the other leg of said bell crank lever, whereby as said arm is moved about its pivot, said bell crank lever is pivoted with respect to said arm as a result of the cam leg of said bell crank lever following said cam, and the pen on the other leg of said lever describes said straight line.

2,534,570
BEVERAGE COOLING AND DISPENSING SYSTEM
Harold M. Braud, San Francisco, Calif.
Application March 24, 1947, Serial No. 736,721
4 Claims. (Cl. 62—91.5)



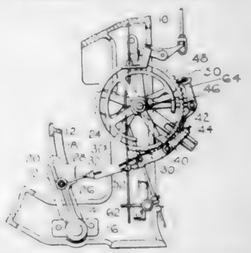
1. In an apparatus for cooling and dispensing liquids, a heat transmitting container for the reception of solid CO_2, a second container surrounding and in heat transmitting relationship with the first container, a check valve between the containers to permit CO_2 gas liberated by the solid CO_2 to flow into the second container, a liquid cooling unit in heat transmitting relationship with the containers and adapted to be cooled by the solid and gaseous carbon dioxide therein, said cooling unit having an inlet and a valved discharge, and means for making the pressure established by gas in the second container effective upon liquid in said cooling unit.

2,534,571
CIRCUIT FOR CATHODE-RAY TUBES AND METHOD OF OPERATING THE SAME
William Hudspith Buchanan, Caterham Valley, England, assignor to Cinema-Television Limited, London, England, a corporation of England
Application June 24, 1948, Serial No. 35,038
In Great Britain October 7, 1947
10 Claims. (Cl. 315—30)



1. A circuit comprising a cathode ray tube having an anode, a cathode, a source of electrons for bombarding said cathode and a modulator electrode for controlling the emission of electrons from the cathode to the anode, and a source of cyclically varying unidirectional potential connected between said source of bombarding electrons and said cathode, whereby said cathode is periodically made positive with respect to said source of bombarding electrons.

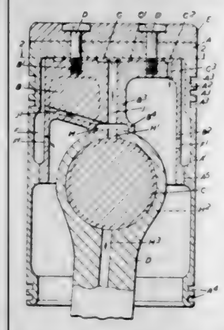
2,534,572
RATCHET MECHANISM
Horace H. Burdett, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application September 21, 1946, Serial No. 698,549
6 Claims. (Cl. 74—144)



1. A loom cloth take-up mechanism comprising, in combination, a shaft to be intermittently rotated, a ratchet wheel fixed on said shaft, a pawl carrier having a pivot thereon, a driving pawl mounted on said pivot and having a tooth and a weighted tail piece arranged on opposite sides of the pivot, and means supporting and imparting to said carrier alternating working and return strokes, the supporting means for said carrier being so guided that on working strokes the said pivot approaches said ratchet wheel throughout substantially the entire stroke and said tooth rotates toward said carrier and on return strokes, said pivot recedes from said ratchet wheel for substantially the entire stroke and said

tooth rotates away from said carrier and toward the ratchet wheel, whereby certainty of engagement of said tooth and said wheel during return strokes is assured.

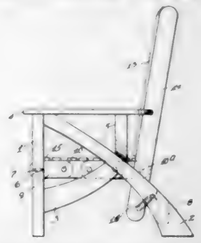
2,534,573
PISTON
Ernest Edward Chatterton, London, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain
Application March 9, 1949, Serial No. 80,499
In Great Britain March 22, 1948
10 Claims. (Cl. 123—41.38)



2. A piston and connecting rod assembly comprising a piston having a crown portion, a skirt portion, and a ring-carrying portion between the crown and skirt portions and provided with at least one piston ring groove, an annular chamber being provided in the piston behind the ring groove and extending towards the skirt portion, the lower and upper ends of this chamber being closed while at least one discharge opening is situated in the inner circumferential wall of the chamber at a point displaced from both ends and lying nearer to one end than to the other, a gudgeon pin mounted in the piston, a connecting rod having a small end surrounding the gudgeon pin and provided with a passage through which oil can be fed to such small end of the connecting rod, a part of the circumference of the small end of the connecting rod making a substantially fluid-tight seal with a part of the piston, and a port in said part of the small end of the connecting rod communicating with the oil passage in the connecting rod and also with an oil passage in the piston leading to the annular chamber therein.

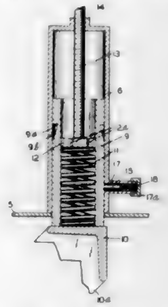
2,534,574
CHAIR HAVING SPRING SUPPORTED BACK REST AND SEAT
Luther V. Cline, San Diego, Calif.
Application February 24, 1945, Serial No. 579,512
1 Claim. (Cl. 155—55)

In a chair of the class described, the combination of a pair of front legs, a pair of rear legs individually secured to the upper portions of said front legs and extending rearwardly and downwardly, a pair of arms supported on said front and rear legs, a flexible seat comprising laterally disposed pivotally connected links, and transversely disposed bar cross members terminally secured to said links, a back rest pivotally secured to the rearmost of said links and provided with a depending portion and yieldably mounted to the leg structure of the chair by springs secured to said depending portion of said back rest and to said rear legs, so that said back rest is normally retained in approximately vertical position with



the center portion thereof abutting the rear ends of said arms.

2,534,575
DOLLY FOR HOUSE TRAILERS
Joseph T. Conley and Oscar D. True, Minneapolis, Minn.
Application March 12, 1948, Serial No. 14,486
4 Claims. (Cl. 280—33.44)

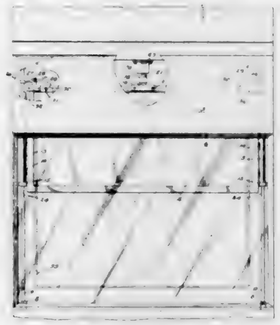


1. A swiveled and shock-cushioning wheel mounting for trailers comprising a wheeled truck having an upstanding swivel sleeve open at its upper end, a mounting sleeve adapted to be secured to one end of a trailer and having external telescopic relation with said swivel sleeve and provided with a lower open end, a piston fixed to the upper portion of said mounting sleeve and working within said swivel sleeve, shock-cushioning means interposed between said piston and the lower end of said swivel sleeve, said swivel sleeve having a cylindrical external surface bearing directly against the internal surface of said mounting sleeve and locking mechanism for preventing said sleeve from becoming telescopically uncoupled, said locking mechanism including an annular shouldered element adjacent the upper portion of said swivel sleeve and fixed to said sleeve and a cooperating locking element carried by said mounting sleeve.

2,534,576
WINDOW DISPLAY PROTECTOR
Joseph Continenza, Stuart, Fla.
Application November 2, 1949, Serial No. 124,969
2 Claims. (Cl. 109—18)

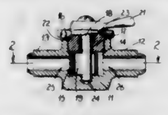
1. A window display protective device including a pair of upstanding spaced guides mounted within a window, a drop panel extending between said guides and slidably mounted thereon, a motor mounted above said drop panel, a threaded connection between the motor and drop panel and normally engaging the panel so as to hold

the panel elevated, means actuated by breaking of a window and adapted to energize the motor so as to break the threaded connection for drop-



ping of the panel, and latch devices inter-engaging between the panel and guide rods for preventing elevation of the panel from its dropped position.

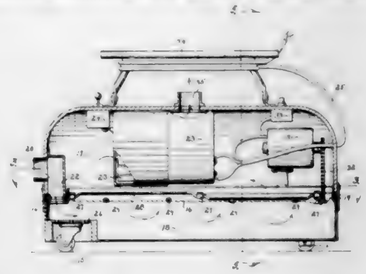
2,534,577
VALVE
Louis B. Courtot, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application September 19, 1945, Serial No. 617,274
10 Claims. (Cl. 251—13)



1. A valve comprising a body having a chamber formed therein, a wall portion of said chamber having a cylindrical surface, a port in said wall portion the margin of said port lying within the cylindrical surface of said wall portion, a composite generally annular closure member comprising a thin walled springy backing annulus and a rubber-like cover for said annulus, said closure member having rolling contact with the wall portion of said chamber, said cylindrical wall portion extending at least 90° to one side of said port, control means for rolling said closure member to and from a position overlying said port, said control means comprising a shaft substantially concentric with said chamber wall portion and operator means carried by said shaft engaging the said springy backing annulus, said operator means being of smaller section than the internal diameter of said annulus whereby said annulus may flex as the closure member rolls across said port.

2,534,578
VACUUM CLEANER
Silas F. Crabb, Des Moines, Iowa
Application September 2, 1947, Serial No. 771,623
4 Claims. (Cl. 183—55)

1. In a vacuum cleaner, a bottom shell container, an inverted top shell container, a means for detachably securing said two shell containers together, a flat flexible horizontal filter means between said two shell containers; said filter provided with a plurality of spaced apart cleat members, a dirt and air inlet passageway terminating vertically below said filter means and inside said bottom shell container, a horizontal shelf baffle means inside said bottom container and spaced directly below the outlet end of said dirt and air passageway, a suction fan inside said inverted top shell container and com-



municating with the outside atmosphere, and a motor operatively connected to said fan; agitating means operatively associated with said cleat members and a motor operatively associated with said agitating means.

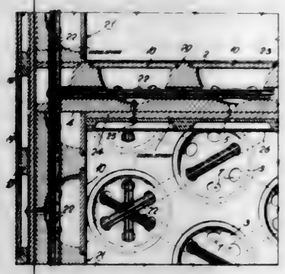
2,534,579
RAYON-YARN BASING PAD
George F. Dennis, High Point, N. C.
Application August 26, 1948, Serial No. 46,237
2 Claims. (Cl. 242—139)

1. A rayon-yarn protector for use on a hosiery knitting machine comprising a horizontally disposable discoidal rigid base centrally apertured and adapted to be mounted on a vertical cone supporting post, and a centrally apertured discoidal pad superimposed on and fastened to the top surface of said base, said pad being of a diameter corresponding to the diameter of the base, being compressibly resilient, the upper yarn receptive surface of said pad being smooth and flat, and the center of said upper surface having a relatively shallow concentric depression, the outside diameter of said depression corresponding to the greatest diameter of the cone which is seatable in said depression, the portion of the pad ranging from the outer peripheral edge of the pad to the outer peripheral edge of the depression being of uniform thickness.

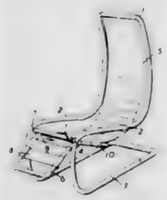
2,534,580
REINFORCED BUILDING CONSTRUCTION
Hayden Edwards, Columbus, Ohio
Application October 18, 1945, Serial No. 623,126
14 Claims. (Cl. 72—42)

1. A building slab comprising a skeletonized body having each of two opposed outer surfaces

provided with a set of indentations having their inner portions staggered with relation to the inner portions of the indentations of the other set and intersecting said inner portions, the interior of said slab being provided with passageways formed by said intersecting portions and extending laterally through the body and through the end walls thereof in a plane parallel to the indented surfaces.



2,534,581
CHAIR AND LEG REST
Leon Ernest Eeman, London, England
Application January 26, 1948, Serial No. 4,273
In Great Britain January 30, 1947
4 Claims. (Cl. 155—119)



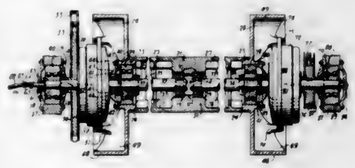
1. A chair comprising a frame, an upper cross-bar extending across the upper rear part of said frame, a lower cross-bar extending across the front of the seat portion of the chair, a length of flexible material extending between said upper and lower cross-bars and forming hammock-like back and seat portions, a leg-supporting structure, means attaching said leg-supporting structure adjacent to the forward part of the seat of the chair in a freely rockable manner with a portion of said structure extending forwardly of the seat portion of the chair and another portion extending rearwardly of the front of said seat portion, the arrangement being such that when a user sits in said chair the rearwardly extending portion of the said leg-supporting structure is depressed and the forwardly extending portion is automatically moved in an upward direction so elevating the user's legs and freeing them from any objectionable pressure against the said lower cross-bar.

2,534,582
STORAGE BATTERY
Benjamin D. Emanuel, Anderson, Ind.
Application April 26, 1948, Serial No. 23,309
9 Claims. (Cl. 136—6)

1. In battery assemblies of the storage battery type, wherein the assembly includes a covered casing carrying the electrodes and their terminals, the electrolyte, and a venting unit, and wherein the assembly is serviceable under optional conditions of service at will with the assembly options presenting respectively either that both terminals are active as service terminals solely at one end of the battery or that the two terminals are rendered active as service terminals by presenting a single terminal as serviceably active at each end of the battery and with the option selection applicable at will and under user control, an assembly of such type

having the terminals of its electrodes exposed for service at the same end of the casing and with the opposite end of the casing imperforate and permanently closed and being normally free from terminal exposure, and a U-shaped conductor element of sheet type externally positionable and removable at will relative to the top, side and bottom of the casing, said element in such position being co-operative with one of said exposed terminals and being thereby rendered active to transfer the activity of such terminal to the opposite end of the casing.

2,534,583
WINCH UNIT
Neal L. Emmons, Muskogee, Okla.
Application November 18, 1947, Serial No. 786,673
18 Claims. (Cl. 254—187)

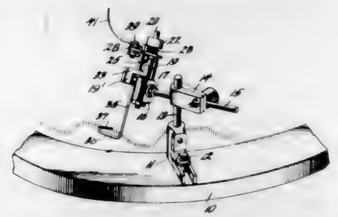


1. A winch unit including, a drum, a pair of independent drive shafts for the drum, each shaft having its inner end journaled within the drum for free rotation of the shafts with respect to the drum and with respect to each other, a first clutch connected between one shaft and the drum, a second clutch connected between the second shaft and the drum, and means for engaging said clutches.

2,534,584
LATCH OPENER
Ruben Epstein, Brooklyn, N. Y., assignor to H. Brinton Co., Philadelphia, Pa., a corporation of Pennsylvania
Application August 26, 1949, Serial No. 112,517
8 Claims. (Cl. 66—111)

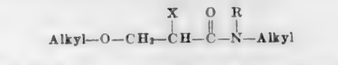
1. In a latch needle knitting machine, the combination of a latch opener, means for holding it

in an active position adjacent a row of needles, and means tending to move it substantially transversely of the needle row and also substantially axially of adjacent needles into an idle position.



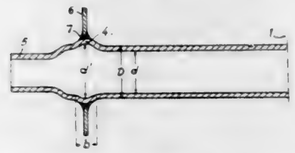
2,534,585
METHOD OF PRODUCING N-ALKYL ACRYLAMIDES
John G. Erickson, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 15, 1948, Serial No. 21,309
7 Claims. (Cl. 260—561)

1. A method of producing an N-alkyl acrylamide which comprises heating an N-alkyl beta-alkoxypropionamide of the formula



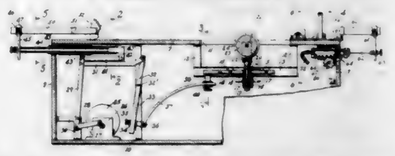
wherein X is a member of the group consisting of hydrogen and the methyl radical, and R is chosen from the group consisting of hydrogen and an alkyl radical, in the vapor phase in the presence of a catalyst for the reaction to form an alkyl alcohol and an N-alkyl acrylamide, and recovering the latter.

2,534,586
WHEEL ASSEMBLY
Edvard Emanuel Eriksson, Degerfors, Sweden, assignor to Degerfors Jarnverks Aktiebolag, Degerfors, Sweden, a corporation of Sweden
Application November 29, 1945, Serial No. 631,631
In Sweden December 23, 1944
1 Claim. (Cl. 295—43)



A wheel and axle assembly for railway rail vehicles comprising a tubular wheel axle of substantially constant wall thickness from end to end thereof, a journal formed at the end of said axle, the wall of said axle having a radial enlargement providing an annular bulge adjacent the inner end of the journal, said annular bulge being arch-shaped in axial section with the outer surface convex and inner surface concave and substantially parallel thereto, a wheel disc having a central opening, the annular bulge on said axle seating in the opening in the wheel disk and welded thereto.

2,534,587
MASSAGING AND STRETCHING MACHINE
Robert P. Fisher, Los Angeles, and John P. Geiger, Montrose, Calif.
Application January 10, 1948, Serial No. 1,587
1 Claim. (Cl. 128—71)



In a massaging and stretching machine, a table structure having an opening therethrough, a massaging element operable up through said opening to engage the body of a person lying on said table, said element being adjustable vertically, a motor, operating connections from said motor to said massaging element for oscillating it back and forth, means for attachment to the feet of said person, said means being operatively connected with the motor for intermittently pulling on said feet, means for attachment to the head of said person for applying pull in the opposite direction from that applied to the feet, a cylinder with piston operable therein and connected with said head pulling means, and a guage connected with said cylinder for indicating the pressure being applied to said stretching means.

2,534,588
PAPER BASE PLANOGRAPHIC PRINTING PLATE
Frederick H. Frost, Portland, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts
No Drawing. Application July 14, 1947, Serial No. 760,939
15 Claims. (Cl. 101—149.2)

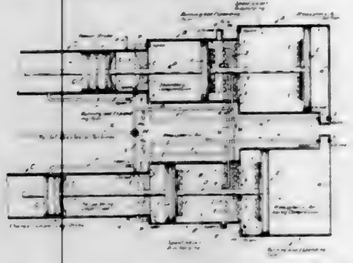
1. A planographic printing element comprising a base sheet having thereon a coating comprised of a finely divided filler dispersed in a hydrophilic colloid adhesive, the surface of said coating having planographic printing properties which have been improved by rubbing in the hard and dry state and said rubbed surface being less penetrable by ink than the unrubbed surface.

2,534,589
FOUNTAIN PAINTBRUSH WITH ROTATABLE AND YIELDING GUIDE FOR STRIPING
Willard J. Gebien, Chicago, Ill.
Application May 29, 1946, Serial No. 672,923
6 Claims. (Cl. 15—131.05)

1. In a paint brush having a handle, a liquid reservoir carried by said handle, means for applying pressure to the liquid in said reservoir, a projection secured to said handle having a chamber opening from the end thereof, a block mounted in said chamber, bristles carried by said block and extending from the open end of said chamber, a slide surrounding said block and slidable in said chamber, the lower end of said slide comprising a guard surrounding said bristles, fastening means extending laterally from said block

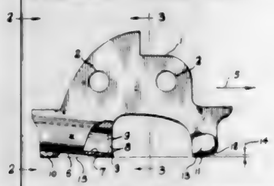
for fixedly mounting the latter in spaced relation to the walls of said chamber, elongated slots in said slide for receiving said fastening means, a conduit extending from said reservoir to said block and into said bristles and a valve in said conduit.

2,534,590
POWER UNIT
Fred P. Gerhardt, Milwaukee, Wis.
Application June 12, 1947, Serial No. 754,190
5 Claims. (Cl. 123—53)



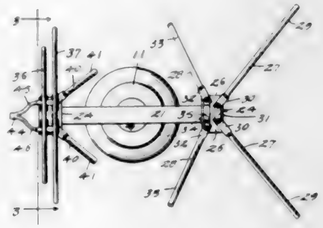
1. A power unit of the character described comprising a power cylinder, a compression cylinder, pistons in said cylinders, said cylinders and pistons being arranged in tandem, a rod connecting said pistons for simultaneous movement in the same direction, means for admitting air to the compression cylinder and conducting air compressed by the piston therein to the power cylinder, means for injecting fuel into the power cylinder and firing a charge of fuel and air therein at the end of the compression stroke of the power piston, and means for conducting gases of combustion resulting from the firing of the charge in the power cylinder to the compression cylinder for the action of the expanding gases on the pistons in both cylinders to cause the piston in the compression cylinder to force compressed air therefrom into the power cylinder during the movement of the power piston on its power stroke.

2,534,591
CUTTING SECTION FOR CHAIN SAWS
Grady Oswald Geurian, Bly, Oreg.
Application January 15, 1946, Serial No. 641,291
5 Claims. (Cl. 143—135)



1. A cutting section for chain saws comprising, in combination, a plate adapted for insertion between the links of a chain, a cylindrical portion on said plate and having a part projecting in the direction in which the saw is to travel, said portion having an upwardly inclined chip clearance passageway formed centrally and longitudinally therein, an arcuate cutting edge on said cylindrical portion at the end of said passageway adjacent said projecting part, a pilot block on the end of said plate in advance of said cutting edge, and a downwardly extending heel at the trailing end of said cylindrical portion.

2,534,592
TELEVISION ANTENNA
James Goumas, Perth Amboy, N. J.
Application November 17, 1949, Serial No. 127,921
2 Claims. (Cl. 250—33.65)

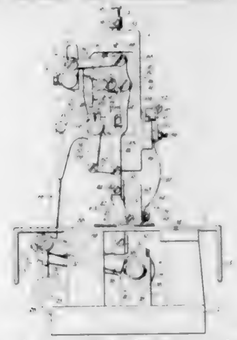


1. A television antenna system having a portable supporting base, an upright rotatably mounted in the base with an end vertically extended above the base, a horizontal crossbar fixed to said extended end of the upright and formed with opposite ends spaced from said upright, insulator pads carried at each of said ends of the crossbar, a reflector means mounted one one of said insulator pads carried by the crossbar, said reflector means being comprised of a plurality of radially extending rods with each of said rods having an end secured to said pad the opposite end of each rod being angularly displaced relative to each other rod and the crossbar, one pair of said rods being positioned above said crossbar with said secured ends thereof bonded together and a second pair of rods having secured ends bonded together with free ends disposed substantially below the said crossbar, an inner folded dipole mounted on the insulator pad carried at the opposite end of the crossbar and spaced from said reflector, said inner dipole having spaced ends secured to said insulator pad and formed with prong-like extensions extending downwardly from each end thereof, said prong-like members having free ends angularly disposed relative to each other and the crossbar, an outer folded dipole spaced from the inner dipole having spaced ends secured to said insulator pad with said spaced ends positioned adjacent the spaced ends of the inner dipole, and transmission line connecting means connected between said adjacent ends of the spaced dipoles connecting said dipoles in parallel.

2,534,593
BONDING MACHINE
Hans Hacklander, Linden, and Charles P. Sweeny, Sommerville, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 21, 1945, Serial No. 600,788
5 Claims. (Cl. 219—47)

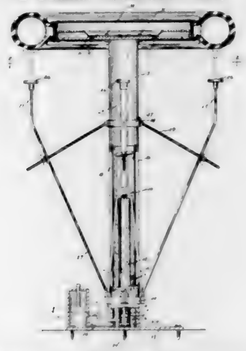
1. In an electrostatic bonding machine, in combination, a movable electrode, an electrode-bar carrying said movable electrode and confined to right line movements, a feed-element, a feed-bar carrying said feed-element, a fulcrum-plate pivotally mounted upon said electrode-bar and pivotally supporting said feed-bar, means for rocking said fulcrum-plate for imparting reciprocal movements to said movable electrode and feed-element, means for imparting work-advancing and return movements to said feed-element,

a second electrode opposed to said movable electrode, and means for establishing an electro-



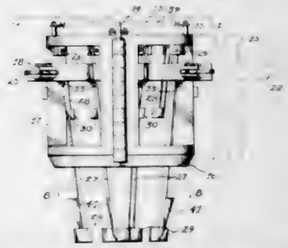
static field of very high frequency between said electrodes.

2,534,594
AXIALLY SHIFTING TYPE HYDRAULIC TIRE MOUNTING AND DEMOUNTING DEVICE
Edward T. Haecker, Hope, Idaho
Application January 16, 1946, Serial No. 641,567
1 Claim. (Cl. 157—1.2)



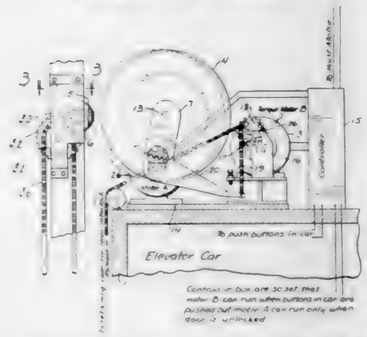
A tire press comprising a base plate, a hydraulic pump mounted on the base plate, a tubular column removably mounted on the base plate, a wheel mounting plate attached to the top of the column, vertical, longitudinal guide slots in the tubular column, a hydraulic cylinder within the base of said column and being connected to said pump, a piston within said cylinder, a piston rod extending from said cylinder and constituting a lifting post, a lower collar slidably positioned around, and an upper collar fixed to, the tubular column, a plurality of connecting links pivotally attached to the lower collar and extending upwardly through the said guide slots in the column to an attachment on the upper extremity of the said lifting post positioned within the tubular column, lifting arms pivotally connected to the lower collar and extending upwardly and outwardly from the said lower collar and terminating at the point of engagement with a tire on a wheel bolted to the said wheel mounting plate, tire engaging members fitted to the upper ends of the said lifting arms, threaded adjusting and supporting links pivoted to the uppermost collar and extending outwardly through the respective lifting arms, and adjusting nuts on said links for holding the arms against outward movement.

2,534,595
PALM TREE TRUNK TRIMMER
Robert D. Hamilton, Altadena, Calif.
Application June 30, 1947, Serial No. 758,141
15 Claims. (Cl. 47—1)



1. A fan palm tree trimmer comprising an openable generally cylindrical body adapted to be placed in encircling position about a palm tree trunk, the body comprising sections connectable to one another to be arranged about a palm tree trunk, and a plurality of downwardly directed blades carried thereby.

2,534,596
APPARATUS FOR OPERATING THE GATES OR DOORS OF ELEVATORS
Clarence O. Harmon, Detroit, Mich.
Application August 4, 1949, Serial No. 108,576
5 Claims. (Cl. 187—52)

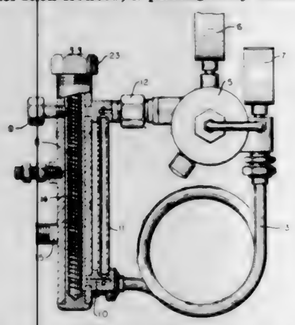


1. Actuating mechanism for the gates or doors guarding the opening into the elevator shaft at each floor of a building, having in combination a gate or door operating motor which can be fixedly attached to the elevator, a driving wheel, a frame for carrying same supported to swing coaxially with the motor shaft, a driving pinion on the end of the motor shaft having gear reduction driving connections with said driving wheel, a driven roll rotatably supported in the elevator shaft arranged to have draft connections with the gate or gates and means for tilting the frame and the driving wheel so that it has a driving engagement with the driven roll.

2,534,597
APPARATUS FOR HANDLING GASES
Harry Hooper, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application March 9, 1948, Serial No. 13,863
1 Claim. (Cl. 62—1)

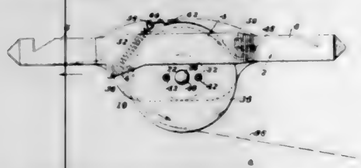
An apparatus for delivering gases from a higher to a lower pressure including a pressure-

reducing valve, a casing having a plurality of longitudinal extending gas passages therein, an electrical resistance heater positioned in one of said passages for direct contact with gas flowing therethrough, thermostatic means positioned within a second of said passages responsive to the temperature of gas flowing therethrough to regulate the heating effect of said heater, means for introducing gas into one end of the passage containing the heater and means for discharging gas at the other end, whereby gas is caused to flow through said passage over and in contact with said heater, a passageway communicat-



ing at one end with the discharge end of the passage containing the heater, means for attaching said casing to said valve at the discharge end of said passageway, said attaching means having a passage therethrough for delivering gas from said passageway to the inlet side of said valve and a flexible conduit between the valve and the passage containing the thermostatic means for delivering gas from the discharge side of said valve into contact with the thermostatic means, whereby the temperature of gas delivered to said valve is maintained within predetermined limits.

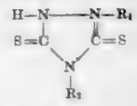
2,534,598
LOOM SHUTTLE
Daniel E. Houghton, Washington, D. C., assignor, by mesne assignments, to New York Wire Cloth Company, York, Pa., a corporation of Delaware
Application August 31, 1949, Serial No. 113,381
2 Claims. (Cl. 139—200)



1. A loom shuttle comprising a pivoted bobbin-carrying member including a rotatable bobbin-carrying plate having upwardly extending bobbin-engaging pins thereon surrounded with an upwardly extending bobbin hub, a washer concentric with said hub beneath the plate, a spiral spring connected at the inner end to said plate compressed between the plate and said washer, the outer unattached end of the spring bearing against said leather strip for frictional rotation in contact with the strip, a flexible strip attached at one end to the shuttle above said plate tensioned across the shuttle between the sides of the bobbin by means of a coiled spring connected at one end to the shuttle and at the other end to the unattached end of said flexible strip.

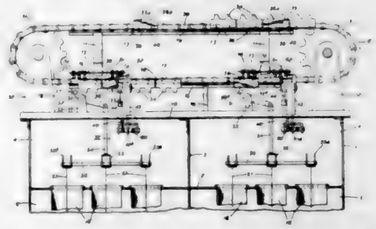
2,534,599
STABILIZED GELATINO SILVER HALIDE PHOTOGRAPHIC EMULSION
Dennis John Thomas Howe, Barnet, England, assignor to Elliott & Sons Limited, Barnet, England, a company of Great Britain
No Drawing. Application July 15, 1947, Serial No. 761,159. In Great Britain July 25, 1946
8 Claims. (Cl. 95—7)

8. A photographic material which includes a gelatino silver halide emulsion layer in which is incorporated a compound selected from the group consisting of substituted dithiourazoles and the metal salts of substituted dithiourazoles wherein the substituted dithiourazole has the formula:



wherein R_1 and R_2 are constituents selected from the following group: hydrogen, alkyl, aryl and aralkyl, but are not both hydrogen, and wherein the metal salts of substituted dithiourazole in accordance with said formulas are selected from the group consisting of silver, thallium, ferric iron and copper.

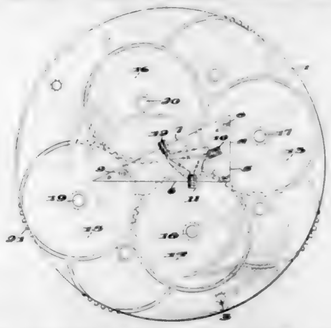
2,534,600
DUST FILTER
Horace Reginald Hutchings, Purley, England
Application September 4, 1946, Serial No. 694,722
In Great Britain September 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 3, 1965
10 Claims. (Cl. 183—54)



1. A dust collector or filter comprising a plurality of filter bags, compartments for said bags, agitating means for the bags, means to circulate dust-laden air through the bags, valve means intermittently to cause a counterflow of scavenging air through said bags, locking means associated with the valve means adapted to hold said valve means in their open positions and closed positions except during change-over periods, and an endless element both to actuate said locking means and to effect agitation of the bags.

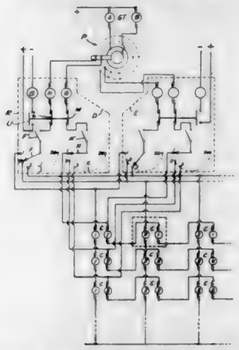
2,534,601
TRIANGLE CALCULATOR
Willard H. Jensen, Longview, Tex.
Application June 17, 1949, Serial No. 99,790
4 Claims. (Cl. 235—88)

1. A calculator for solving triangles comprising a pair of spaced plates, one side of said plates having a geometric representation thereon of a right triangle, the other of said plates having thereon a geometric representation of an oblique triangle, a plurality of windows in the plate with the oblique triangle, said windows being positioned adjacent each angle of the triangle, a plurality of windows in the plate with the right triangle, said windows being positioned adjacent each side and each of the complementary angles of the right triangle, a system of intermeshing disks rotatably mounted between the plates and adjacent the right triangle plate, a series of independent disks ro-



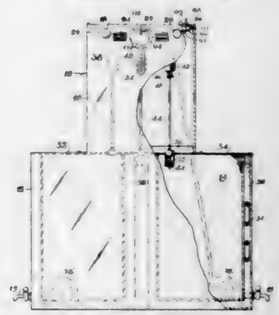
tatably mounted between said plates and adjacent the oblique triangle plate, and indicia representing trigonometric functions and angles on the disks, the said disks being movable to present the proper related indicia before each window to assist in the solving of the unknown angle and side values of the triangles when certain of such values are known.

2,534,602
TOTALIZATOR REGISTERING MEANS FOR "DOUBLES" TICKETS
Awdry Francis Julius, Sydney, New South Wales, Australia, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia, a company of New South Wales, Australia
Application November 23, 1948, Serial No. 61,635
In Australia December 17, 1947
3 Claims. (Cl. 235—92)



1. In a race totalizator of the kind described comprising a grand total adding unit, at least one, ticket issuing unit, and a plurality of electro-magnetically operable competitor adding units, first and second selector switches in said ticket issuing units, each of said selector switches including a series of contacts, the operating electro-magnets for said grand total adding unit and each of said competitor adding units consisting of first and second parts which are effective when jointly operated but ineffective individually, a circuit for said selector switches and said operating electro-magnets comprising a first conductor connecting the first and second parts of the operating electro-magnets respectively to the first and second selector switches, a second conductor connecting the competitor electro-magnet first parts in series in first groups and respectively to the contacts of the first selector switch, and a third conductor connecting the second parts of the competitor electro-magnets in series in second groups, said second groups of parts of the competitor electro-magnets being each respectively associated with one said competitor electro-magnet first part in each of said first groups so that upon the circuit being closed through both of said selector switches said grand total electro-magnets and only one of said competitor electro-magnets have both parts thereof energized.

2,534,603
AUTOMATIC X-RAY FILM PROCESSING APPARATUS
Cyrus Katzen and Thomas R. Games, Washington, D. C.
Application May 6, 1947, Serial No. 746,176
7 Claims. (Cl. 95—90)

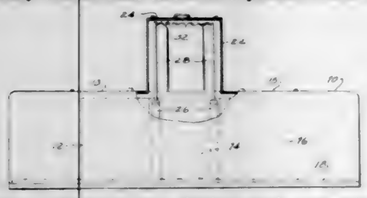


1. Photographic film treatment apparatus comprising a light-excluding treatment tank having a substantially flat lower surface, means for supporting exposed photographic films or plates in said tank, a pair of treatment fluid storage tanks arranged directly beneath and in supporting relationship to said treatment tank, a pair of openings in the lower surface of said treatment tank each in direct communication with a respective one of said storage tanks, and a pair of valve elements mounted in said treatment tank for vertical reciprocation toward and away from said respective openings.

2,534,604
PHOTO FILM PROCESSING APPARATUS
Cyrus Katzen and Thomas R. Games, Washington, D. C.
Application November 30, 1948, Serial No. 62,704
2 Claims. (Cl. 95—89)

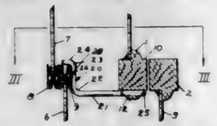
1. A photographic fluid treating apparatus comprising a plurality of fluid containing tanks including a central tank, all arranged side by side one another and movable as a unit back and forth between predetermined limits along a fixed path, a photographic film-supporting rack arranged for movement along a path perpendicular to the first path, reversible motor means for reciprocating said tanks between said limits, and control means for periodically energizing said motor means to move said tanks stepwise with respect to said rack and means for moving said

rack intermittently to position films supported thereby within said tanks in a predetermined se-



quence, whereby once during each excursion of said tanks between said limits said central tank is disposed beneath said rack.

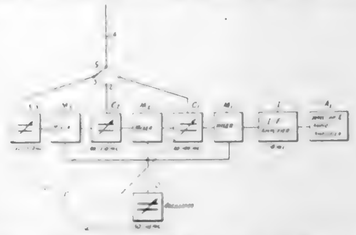
2,534,605
MEETING RAIL LATCH
Harry A. Kaufmann, Detroit, Mich., assignor to The Kaufmann Corporation, Detroit, Mich., a corporation of Michigan
Application April 20, 1945, Serial No. 589,422
2 Claims. (Cl. 20—55)



1. In a window assembly for a building structure having a substantially rigid main window sash construction having a centrally disposed member held against inward and outward movement with respect to said building structure, and a pair of relatively flexible double hung storm sashes each equipped with a meeting rail and spaced outwardly from said main window sash construction and held at their peripheries against inward and outward movement with respect to said main window sash construction, means for holding the meeting rails of said storm sashes against inward and outward movement with respect to each other comprising: a latching member having at one of its ends means for mounting said latching member to said centrally disposed member substantially midway between the ends of said centrally disposed member for horizontal pivotal movement; a hook at the other of the ends of said latching member tracing an arcuate path as said latching member is pivoted about its said mounting means; said mounting means and said hook spaced apart a distance greater than the normal spacing between the point of attachment of said mounting means to said centrally disposed member and the inward face of the meeting rail of the inward of said storm sashes whereby at one position of said hook in said arcuate path said hook engages the meeting rail of said inward storm sash for imposing an outwardly directed force at a point intermediate the sides of said storm sash, said force being sufficient to cause a substantial outward flexion of the meeting rails of both of said storm sashes.

2,534,606
DOUBLE SUPERHETERODYNE RADIO RECEIVER
Frederick A. Kolster, Washington, D. C.; Muriel Kolster administratrix of said Frederick A. Kolster, deceased
Application August 25, 1945, Serial No. 612,692
8 Claims. (Cl. 250—20)

1. In a multi-range high-frequency receiver of the superheterodyne type, the combination which comprises a signal input circuit, a first frequency changer, means for generating local oscillations, means for applying said local oscillations to said frequency changer, a first selective receiving circuit connected to the input of said frequency changer, whereby to reduce a received signal frequency to a predetermined intermediate frequency in the output of said frequency changer, a second selective receiving circuit and frequency



changer connected thereto and preceding said first frequency changer and selective circuit in cascade connection, means for applying said local oscillations to said second frequency changer, said second selective circuit being tuned to a frequency equal to the sum of the tuning frequency of said first selective circuit and the frequency of said local oscillations, and means for selectively connecting said signal input circuit to said first and second receiving circuit.

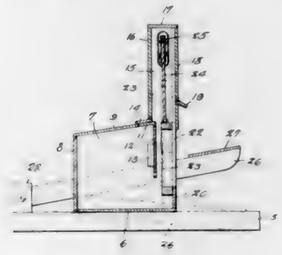
2,534,607
MOLDED BRAKE LINING
Frank J. Laher, Orinda, and Cornelius F. Kelleher, Huntington Park, Calif., assignors to Lasco Brake Products Corp., Oakland, Calif., a corporation of California
No Drawing. Application July 1, 1948, Serial No. 36,423
2 Claims. (Cl. 260—29.2)

2. A moldable material for making rigid molded brake linings characterized by its property of being cold molded under pressure into self-sustaining bodies of substantially final form which are curable by heat without pressure molds or clamps for retaining said form, said material consisting of divided solids and liquid components forming a friable mixture, the solids including asbestos fiber together with other powdered filling materials including graphite and also including thermal setting resin as a binder, the liquid components being a minor portion of the total ingredients and comprising a glycol selected from a group consisting of ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol and tetraethylene glycol together with water, the glycol contents ranging from about 1.2 to 2.5% and the water content from 5.5 to 7% of the total mix.

2,534,608
CHICKEN FEEDER
Newton A. Lasater, Mulberry, Ark.
Application August 6, 1947, Serial No. 766,807
1 Claim. (Cl. 119—55)

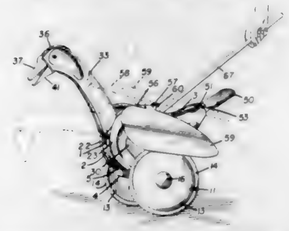
A poultry-actuated feeder construction comprising a pair of spaced parallel horizontal base members; a box-like hopper mounted upon said base members and elevated by the base members above a supporting surface, the front wall of said hopper having a gate opening, there being an elongated opening formed in the top surface of said hopper and extending longitudinally of the hopper immediately adjacent

said front wall; supports secured to and extending upwardly from the rear ends of the base members; treadle arms pivotally connected at their rear ends to the respective supports and extending forwardly past and at opposite sides of the hopper; a treadle secured to and extending between the front ends of the arms immediately in front of said first-named opening; a gate housing secured to the top portion of the hopper and covering said second-named opening and communicating with the interior of the hopper through said second-named opening, said gate housing being disposed wholly above the top sur-



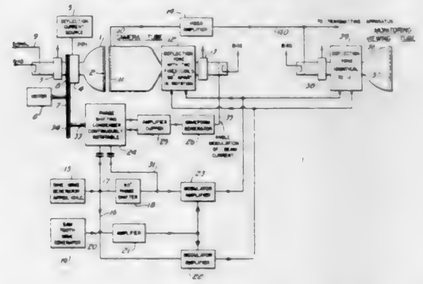
face of the hopper; a gate slidable upwardly and downwardly within said gate housing and proportioned to cover the first-named opening; rope and pulley connections between the respective treadle arms and said gate, operatively connecting the gate to the treadle for elevation of the gate responsive to depression of said treadle; and spring means connected to the upper portion of the gate housing at opposite sides thereof and connected to the respective arms and normally holding said arms and treadle elevated, the treadle being depressible into the space between said base members.

2,534,609
MECHANICAL DUCK
Cecil E. Mann, Pontiac, Mich.
Application December 31, 1946, Serial No. 719,567
3 Claims. (Cl. 46—104)



1. A mechanical toy animal including a longitudinal body, side boards having apertures and secured to said body, outer side boards secured to the apertured side boards, a crank supported by the lower edges of said side boards, wheels on said crank, a tail hinged to the rear upper edge of the body and links pivoted to said crank and said tail for operating said tail, wings pivotally secured to the upper edge of said body and a wing operating member pivoted to one of said links and to said wings, a neck pivoted to said body at the upper forward end thereof, pitman rods connecting said crank and said neck to pivotally actuate said neck, a recess at the outer end of said neck and a bill portion pivotally mounted therein, a crank mounted in said recess, a resilient arm attached at one end to said body and secured to the throw of said last mentioned crank, said bill portion attached to said resilient arm for movement therewith upon movement of said neck.

2,534,610
APPARATUS FOR TELEVISING DATA ON A PLAN POSITION INDICATOR TUBE
Henry O. Marcy, 3rd, Park Ridge, Ill., assignor to The Rauland Corporation, Chicago, Ill., a corporation of Illinois
Application August 11, 1948, Serial No. 43,588
9 Claims. (Cl. 178—6.8)

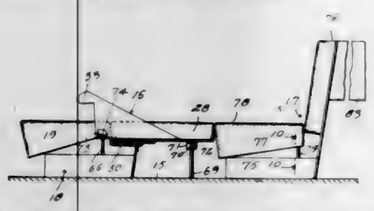


1. Apparatus for televising data visually represented as a polar plot on the screen of a cathode ray plan-position indicator tube having an angularly displaceable magnetic deflection coil comprising a camera tube having a photosensitive target for receiving an image of said polar plot, means for spirally scanning said target with a projection of the electron beam of the camera tube, the means for spirally scanning comprising a source of two sine waves having a 90° phase difference and means for amplitude modulating the sine waves in accordance with a sawtooth wave, and means for controlling the sensitivity of the camera tube including a phase shifting device for receiving the two sine waves and adding them together to produce a single sine wave, an angularly movable element in the device and an arrangement for angularly moving said element in synchronism with any angular movement of the displaceable deflection coil to shift said single sine wave in phase by the same number of degrees as said angular movement, a wave forming circuit for producing a voltage transient having a predetermined wave form in synchronism with each cycle of said single sine wave after its phase has been shifted by said device, and a connection from said circuit for feeding said transient voltage to a control electrode of the camera tube for varying its beam current in accordance with the relative angular positions of the radial sweep of the indicator tube and of the projection of the spirally scanning beam on said target.

2,534,611
WATCH OIL
Joseph S. Martin, Jr., Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
No Drawing. Application February 12, 1949, Serial No. 76,170
7 Claims. (Cl. 252—57)

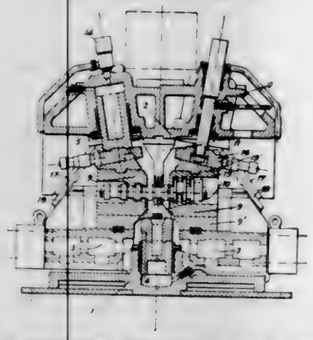
1. A lubricant consisting of the ester of phenyl "Cellosolve" (mono-phenyl ether of ethylene glycol) and 9- and 10-phenyl stearic acid.

2,534,612
CONVERTIBLE SEAT STRUCTURE FOR AUTOMOBILES
Walter H. McGee, Jefferson City, Mo., assignor of one-half to Mrs. Downie M. Kelly, Kensington, Md.
Application December 20, 1946, Serial No. 717,450
2 Claims. (Cl. 155—7)



1. In a convertible seat structure for automobiles, a front seat and a rear seat disposed in spaced apart relationship to the front seat, said front seat including a base frame, a seat cushion and backrest, said seat cushion being removably supported on the base frame, said backrest being slidably and pivotally supported on the base frame for movement from substantially an upright position to substantially a horizontal position, and said backrest, in said last mentioned position, being disposed with the cushion thereof uppermost and between the front seat cushion and the seat cushion of the rear seat, said backrest having depending side members extending into the front seat frame and provided with upwardly facing shoulders, latch members pivotally mounted in said frame, and spring biased plungers engaging said latch members for releasably retaining them in engagement with said shoulders for latching the backrest in its normal, substantially upright position.

2,534,613
APPARATUS FOR FORGING PARTS SHOWING IMPORTANT VARIATIONS IN THEIR CROSS SECTION
François Meley, Saint-Martin en Coaillieux, France, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France, a joint-stock corporation of France
Application June 19, 1945, Serial No. 600,378
In France December 7, 1944
5 Claims. (Cl. 29—6)

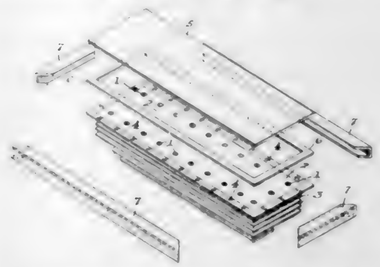


1. An apparatus for forging crank shafts and similar elements starting from a blank having enlargements for the positioning of the webs of the crank to be forged comprising a base having a longitudinal slide, two cradles sliding upon said slide having slopes on both sides, lower clamps located between said slopes designed to support the blank on both sides of two consecutive enlargements of the latter, a cross bar having slopes opposite to those of said cradles supported upon the slopes of said cradles, upper clamps corresponding respectively to said lower clamps, hydraulic cylinders carried by said cross bar, locking pistons in said cylinders connected to said upper clamps by an element sliding with relation to said clamps, calibrated valves controlling the exhaust from said cylinders, an upper central swage fixed to said cross bar to act upon said blank between two consecutive enlargements, a lower swage located opposite to said upper swage, a piston carrying said lower swage, a hydraulic cylinder for said piston in said base and a calibrated valve controlling the exhaust from this latter cylinder.

2,534,614
WEANING CUP
Bernice M. Michael, Los Angeles, Calif.
Application June 15, 1949, Serial No. 99,251
5 Claims. (Cl. 65—13)

3. A weaning cup cap of the character described comprising a tubular member having a closed recessed top and an open bottom, the side wall of said member being adapted to be slidably and removably mounted on a tubular cup, the upper edge of said member being formed with a drinking outlet therethrough, an air inlet therethrough, and a downwardly diverging inner wall descending from said outlet to the bottom of said recess and defining jointly with the adjacent side wall of said member, a channel in open communication with the interior of the cup.

2,534,615
RADIATOR TESTING DEVICE
Fred J. Miller and Merle J. Graham, Dickinson, N. Dak.
Application September 16, 1947, Serial No. 774,242
5 Claims. (Cl. 73—51)



1. A radiator testing device comprising sealing plates adapted to be applied over the outer faces of the header plates of a radiator core, a gasket adapted to be interposed between each sealing plate and its associated header plate and encircle the ends of the tubes of said core, and a plurality of U-clamps for connecting said sealing plates and header plates.

2,534,616
COLLET WITH WORK GRIPPERS
Fletcher F. Milligan, Cleveland, Ohio
Application December 29, 1948, Serial No. 67,804
8 Claims. (Cl. 279—51)

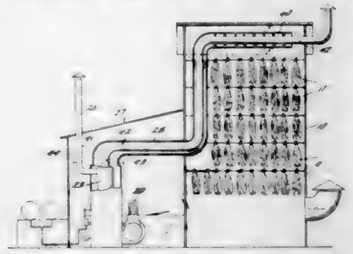
6. A bar stock gripping device for moving stock in a machine tool comprising a tubular member having a shank and an externally tapered portion at one end, the tapered end of said device being split to provide work-gripping fingers, an internal recess in the wall of at least one of said fingers, a work-gripping member slidably mounted in said recess, said recess being of gradually increasing radial depth progressing from its rearward edge to its forward edge in one direction of motion imparted to said device while gripping stock, whereby slippage of the stock in said device with the latter moving in said one direction tends to cause said work-gripping member to be wedged radially inwardly to grip the stock, and a body of rubber between said work-gripping member and one side wall of the recess.

2,534,617
LAMINATED PRODUCT
Harold W. Mohrman, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application January 24, 1945, Serial No. 574,443
8 Claims. (Cl. 154—43)

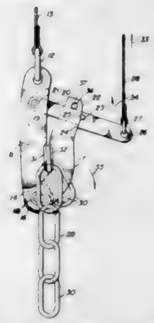
1. Laminated unidirectional glass fabric containing as a bonding agent a heat cured composition comprising a vinyl aromatic compound selected from the group consisting of styrene, ring-substituted alkyl styrenes, ring-substituted chlorostyrenes, vinyl naphthalene and divinyl benzene, and a polyester characterized by comprising the residues of an aliphatic monohydric alcohol having a terminal methylene group and containing 3–10 carbon atoms, the number of said residues constituting from 1–10% of the total ester linkages, a glycol having from 2–6 carbon atoms and a dicarboxylic acid having ethylenic unsaturation and not over 8 carbon atoms, the amount of the vinyl aromatic compound being from 15–50 parts per 100 parts of the polyester.

2,534,618
APPARATUS FOR CURING OF TOBACCO
James B. Moore, Jr., Lexington, Ky.
Original application January 23, 1945, Serial No. 574,078. Divided and this application October 28, 1946, Serial No. 706,242
6 Claims. (Cl. 263—40)

6. In a tobacco-curing apparatus of the class described, the combination of a substantially air-tight curing chamber, means in said chamber for suspending sticks of tobacco, heating means disposed outside said chamber at one side thereof and adapted to force heated air thereinto, a pair of oppositely-disposed outlets extending from the lower portion of said chamber, an air-supply duct having one end portion operatively connected to said heating means and its main body portion extending upwardly therefrom within said chamber and then transversely thereof substantially the entire length thereof with its other end portion terminating relatively short of the inner wall of that side of said chamber which is opposite said heating means, an outlet conduit disposed within said duct and being of less diameter than the same so as to provide a space therebetween, said conduit having one end portion also operatively connected to said heating means and its opposite end portion extending outwardly through said opposite side of the curing chamber, an exhaust pipe extending outwardly from said chamber independently of either said duct or conduit, and thermostatic control means for selectively controlling the passage of gases through the apparatus.

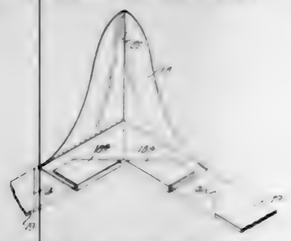


2,534,619
LIFTING HOOK
Paul Niemi, Gheen, Minn.
Application September 22, 1947, Serial No. 775,545
1 Claim. (Cl. 294—83)



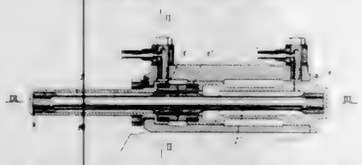
In a lifting hook, the combination of a vertically elongated body member attached at its upper end to a suspension cable, a bill member pivoted to the lower end of the body member and swingable toward and away from the latter, a fork provided at the free end of said bill member and having its furcations formed with a pair of transversely aligned apertures, outer edges of the furcations of said fork being provided with a pair of transversely aligned notches, a trip lever pivoted at one end thereof to said body member and having its intermediate portion receivable in said fork, a keeper pin provided on said lever and projecting to both sides thereof, said pin being receivable in said notches, and a safety locking pin removably positioned in said apertures for retaining the lever in said fork independently of said keeper pin.

2,534,620
DISPLAY COUNTER TOP
Henry O. Oatis and Robert F. Yantis, Dallas, Tex.
Application March 7, 1946, Serial No. 652,731
3 Claims. (Cl. 312—140.3)



2. In a display counter top arrangement, in combination, a counter deck, a perpendicular band enclosing said deck and affixed thereto, vertically disposed outer wall members in juxtapositioned relation to said band and supported upon the surface of said deck, a counter top superimposed upon said deck and affixed thereto, said top extending horizontally to the outer wall members and being a support therefor, a plurality of brackets for supporting said wall members, said brackets each comprising a base consisting of sockets arranged in right angular relationship and wall supporting portions perpendicular thereto, a plurality of connecting strips lying flush on said counter top and slidably retained in said sockets for maintaining said brackets in fixed positions in their mutual relationship, and a plurality of partition wall members supported edgewise by said brackets.

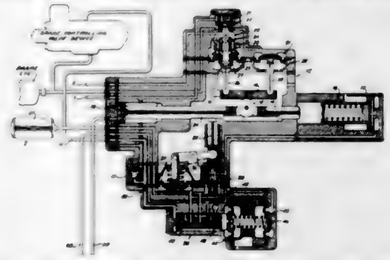
2,534,621
VALVE RETURN DEVICE
Jean Panhard, Paris, France, assignor to Societe Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France
Application May 2, 1949, Serial No. 90,861
In France May 5, 1948
3 Claims. (Cl. 267—1)



1. A device adapted to load a pair of valves comprising a pair of valve-return levers, a fluted cylindrical aperature in the hub of each lever, a pair of sleeves fluted at their outsides at one end thereof, abutted to each other at their fluted ends and splined at said ends each in the fluted hub of one of said levers and resiliently interconnected by a torsion member.

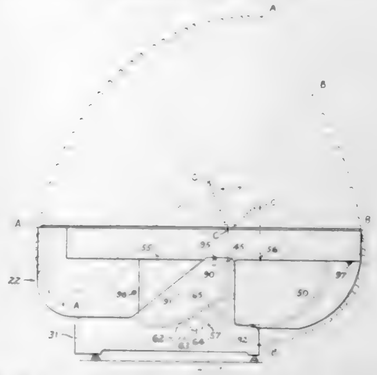
2,534,622
LOAD COMPENSATED AIR BRAKE
Lynn I. Pickert, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application July 30, 1948, Serial No. 41,500
7 Claims. (Cl. 303—22)

1. For use with a load compensated air brake of the type including a normally charged brake pipe and an automatic brake-controlling valve device, the combination of a variable ratio relay connected to modify, in a correspondingly variable degree, the intensity of brake applications produced by said brake controlling valve device; a member shiftable to adjust the ratio setting of said relay progressively between no-load and load settings; a cut off valve arranged to operate in response to brake pipe pressure as the latter rises from atmospheric to a value below that corresponding to full charge, and in so doing develop a similar pressure and then dissipate the developed pressure; a normally engaged latch serving to fix said shiftable member in its adjusted positions; latch releasing means operable



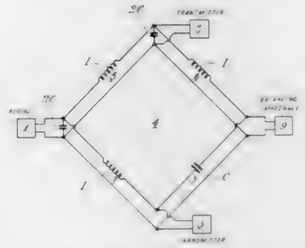
by said developed pressure; normally inert biasing means arranged to be loaded by said developed pressure and then serving to urge said shiftable member toward said no load position; an adjusting piston arranged to move said shiftable member in opposition to said biasing means to an extent proportioned to the pressure reacting on the piston; a variable ratio relay valve arranged to be adjusted according to load; and means controlled by said developed pressure for energizing said relay valve and causing it to deliver to said piston air at a pressure determined by load.

2,534,623
VERTICALLY AND TILTABLY MOVABLE X-RAY TABLE
Franklin A. Pitts, Covington, and Walter H. Haupt, Ludlow, Ky., assignors to The Kelley-Koett Manufacturing Company, Covington, Ky., a corporation of Ohio
Application August 12, 1946, Serial No. 689,898
19 Claims. (Cl. 311—6)



5. X-ray apparatus comprising, in combination, a table for receiving the patient thereon, a supporting base for said table, pivot means forming a transverse tilting axis for said table located intermediate the ends thereof, means supporting said pivot means on said base for movement in an upwardly directed path with respect to said base, and cooperating drive means carried by said base and said table for effecting movement of said table about an axis eccentric with respect to said tilting axis and parellel thereto to cause tilting movement of said table about said tilting axis and simultaneous movement of said tilting axis along said upwardly directed path.

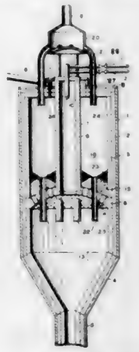
2,534,624
TRANSMITTING DEVICE
Klaas Posthumus, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 11, 1946, Serial No. 661,200
In the Netherlands May 29, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 29, 1963
5 Claims. (Cl. 250—17)



1. A diplex transmission system comprising a pair of indentical signal-modulated high-frequency sources, a common load for said sources, a four arm bridge circuit each arm of which is constituted by a four terminal phase-shifting network, one of said networks providing a 90 degree phase displacement in one direction, the other networks each providing a 90 degree phase displacement in the reverse direction, and a load balancing impedance, the modulated oscillations of said two sources being separately applied to said bridge circuit at one pair of opposing vertices thereof, the load and said impedance being connected to said bridge circuit at the other pair of opposing vertices thereof.

2,534,625
PEBBLE HEATING CHAMBER
Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 10, 1948, Serial No. 26,145
12 Claims. (Cl. 263—19)

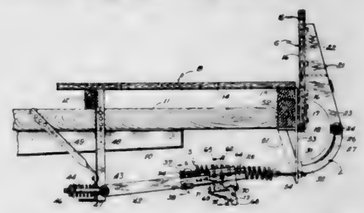
8. An apparatus for heating a downwardly flowing contiguous mass of pebbles, which comprises a vertical cylindrical shell, an axially positioned combustion chamber extending downwardly through the top of said shell and terminating in a freely open end at a point within said shell above the bottom thereof, said chamber and said shell forming an annular space of substantially uniform width for containing a downwardly flowing contiguous mass of pebbles to be heated, means for introducing and regulating the flow of combustible material and air into the top of said combustion chamber, a perforated dome defining the upper surface of a gas space, supported at its periphery by said shell and extending inwardly and upwardly to the said open end of said combustion chamber supporting same and said mass of pebbles, said dome having an opening at the center thereof corresponding with said freely open lower end of said chamber and having a plurality of perforations to allow upward flow of gas therethrough from said gas space into said annular space, a plurality of inlet means spaced evenly about the vertical axis of said shell for introducing and distributing pebbles into the top of said annular space, so arranged as to form a uniform and even contiguous mass of pebbles of uniform bed depth, a plurality of outlet means evenly spaced about the vertical axis of said shell for removing said heated pebbles from the bottom of said annular space extending through and below said perforated dome into said gas space, said inlet and outlet means being adapted to effect uniform flow of a contiguous mass of pebbles downwardly through said annular space, means



for effecting combustion within said combustion chamber and causing flow of resulting hot gases through said combustion chamber and out said freely open end thereof into said gas space, means leading from the top of said annular space and through the top of said shell whereby said hot gases pass upwardly from said gas space through the aforesaid perforations in said dome and through said annular space to heat said pebbles therein and are removed therefrom, means for maintaining a bed of heated pebbles in the bottom of said shell for a sufficient length of time to allow equalization of temperature within said mass of pebbles, said bed of pebbles being sufficiently below said dome to form said gas space therebetween and means located at the bottom of said vertical shell for removing a contiguous mass of heated pebbles.

641 O. G.—58

2,534,626
ADJUSTABLE TAIL GATE CONSTRUCTION
Harry R. Rubenstein, Euclid, Ohio
Application January 8, 1948, Serial No. 1,133
6 Claims. (Cl. 296—57)



1. Latching mechanism for the tail gate of a vehicle body having a gate horizontally hinged adjacent its lower end to the body and being

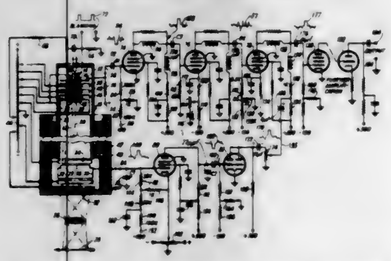
substantially vertical in its closed position, comprising bracket means for attachment to the tail gate, link means pivoted to said bracket means and adapted to extend under the vehicle body, movable spring anchor means mounted on said link means remote from its pivot point, fixed spring anchor means adapted to be mounted on the vehicle bdoy adjacent the pivoted end of said link means, tension spring means extending between said spring anchor means and to the side of said link means said spring means being of sufficient strength to overbalance the weight of said gate, guide means, means for pivotally mounting said guide means under said body and between said spring anchor means, said guide means slidably receiving said link means, and releasable latch means mounted on said guide means and engaging said link means.

2,534,627

VIDEO AMPLIFIER WITH SEPARATE CHANNELS FOR HIGH AND LOW FREQUENCIES

Otto H. Schade, West Caldwell, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 22, 1946, Serial No. 671,586
9 Claims. (Cl. 178—7.2)



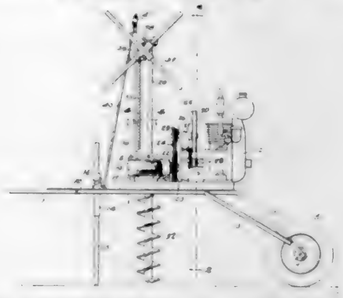
8. A television transmitting system wherein an Orthicon image pickup tube is used to provide video signals and wherein the tube has a target electrode and an electron multiplier with provisions whereby television video signals may be derived from both the target electrode and the electron multiplier, comprising two parallel operated amplifying channels having different band pass characteristics, one of which is effective to amplify the low frequency components of the television video signals available from the target electrode and the other of which is effective to amplify the high frequency components of the television video signals available from the electron multiplier, said low frequency component amplifier including one amplifying stage, a load resistance-tube capacitance circuit constituting a time constant circuit T1 to which the video signals available from the target electrode are applied, a load resistance-tube capacitance time constant circuit T2 to which the signals amplified by the stage are applied, said high frequency component amplifier including at least two stages, each stage including series capacitances and shunt resistances constituting input grid circuit time constant circuits T3 and T4, the values of the elements constituting the various time constant circuits being so chosen that the ratio of the time constant T1 to the time consant T2 is substantially equal to the ratio of the time constant T3 to the time constant T4, and in which the time constants T1 and T2 have a value approximately one-tenth as large as the time constants T3 and T4, respectively, and means for combining the amplified video signals available from the outputs of the two amplifier channels whereby a single composite series of video signals will be produced.

2,534,628

POWER-OPERATED POSTHOLE DIGGING MACHINE

Albert Shacklette, Jeffersontown, Ky.

Application December 18, 1945, Serial No, 635,703
2 Claims. (Cl. 255—22)



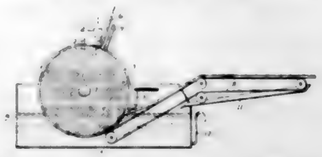
2. In a portable earth boring machine, a frame, a stationary gear box mounted on the frame, an auger carrying shaft rotatably journaled in said gear box, said auger shaft extending through an opening in said gear box for vertical longitudinal movement with respect thereto, means including said gear box for rotating said auger shaft during longitudinal movement thereof, a stationary rack bar carried by said frame and positioned in spaced parallel relationship to said shaft, a carrier member mounted at the upper end of said auger shaft having an opening therein through which the rack bar extends, a pinion mounted within said carrier and movable therewith, and in engagement with the teeth of said rack bar and manually operated means for rotating said pinion to raise and lower said auger shaft.

2,534,629

APPARATUS FOR MANUFACTURING A CONTINUOUS STRIP OF SOLID ALCOHOL

John E. Schultze, Baltimore, Md., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y., a corporation of Delaware

Application July 8, 1948, Serial No. 37,641
2 Claims. (Cl. 18—15)



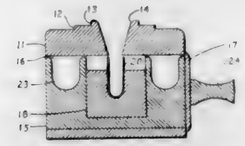
1. An apparatus suitable for use in the manufacture of a continuous strip of solid alcohol, the said apparatus comprising a wheel having around its periphery a channel of suitable cross-sectional area, means for rotating the wheel, means above the wheel for feeding a mixture of low-proof alcohol and a solution of cellulose nitrate to said channel, a stabilizer finger extending and fitting snugly within said channel adjacent the mixture feeding means, and means for supplying water to the channel between said mixture feeding means and said stabilizer finger, the said wheel being partially immersed in a tank.

2,534,630

UNIVERSAL DENTAL CAPSULE FILLER FOR USE BY THE DENTAL PROFESSION

John Marcus Shoemaker, Sr., Middletown, Ind.

Application May 20, 1948, Serial No. 28,137
5 Claims. (Cl. 226—40)



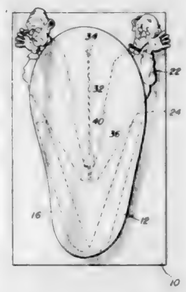
1. A dental capsule filler comprising a housing having a top wall with an opening therein surrounded by a conical wall, a reciprocating block interfittingly slidable in said housing, said block having an upwardly opening central pocket therein, a capsule supporting block removably mounted in said pocket and having a center recess for the support of a capsule and means at the outer end of the slide block adapted for abuttingly engaging the adjacent end of the housing for aligning the capsule with the opening in the top wall of the housing.

2,534,631

CORD AND SPRING ANIMATED FIGURE DEVICE

Joseph A. Simpson, New York, N. Y., assignor of one-half to Maria Hearst, New York, N. Y.

Application July 12, 1948, Serial No. 38,287
5 Claims. (Cl. 46—119)



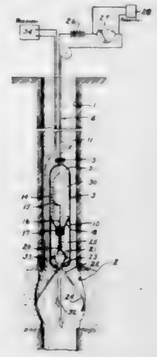
1. An animated figure device comprising a front panel having at least a portion thereof opaque, a rear panel, a guide having a generally V-shaped slot therein secured to and between said front and rear panels, figure members having a hinge connection between lower portions thereof and fitting together within said slot and between said panels when in retracted positions, a cord connected to the figure members whereby the figures may be raised in the slot, the figure members having their centers of gravity disposed relative to said slot so that the figure members diverge when raised by the cord into a second position said lower portions of the figure members being cuneiform, the adjacent edge portions of said lower portions abutting when in retracted positions and outer inclined edge portions of said lower portions riding upon the sides of said slot.

2,534,632

WELL SURVEYING DEVICE

Alonzo L. Smith, Houston, Tex.

Continuation of application Serial No. 411,761, September 20, 1941. This application March 29, 1948, Serial No. 17,741
4 Claims. (Cl. 166—1)



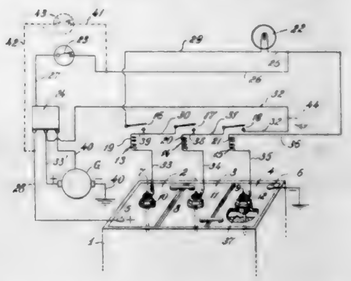
1. In a well surveying device the combination of a housing having a chamber therein and adapted to be lowered into a well bore, a rod carried by said housing and extending into said chamber, means for moving said rod in accordance with variations in the diameter of the well bore, means operable by the movements of said rod for indicating at the surface the variations in the diameter of the well bore which cause such movement, and a quantity of liquid partially filling said chamber so as to provide a space in the chamber above the liquid to serve as a compression chamber to compensate for volumetric changes produced in the chamber by movement of the rod.

2,534,633

BATTERY ELECTROLYTE LEVEL INDICATOR

William A. Smith, Cedar Rapids, Iowa

Application September 8, 1948, Serial No. 48,293
6 Claims. (Cl. 177—311)



1. An electrolyte level indicator for storage batteries comprising a relay for each cell of the battery each relay having contacts and an operating coil, an electrode for each cell, mounted to project into the cell to make electrical contact with the electrolyte therein when the lever thereof is above a predetermined value, a current indicator, a control switch, circuit connections for connecting each relay coil to the electrode of the corresponding cell, for connecting the con-

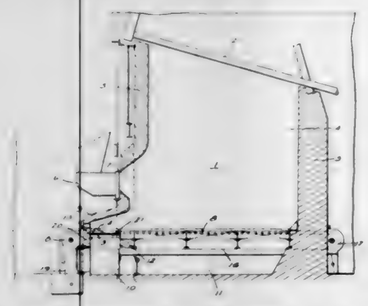
trol switch with a terminal of the battery and with the coil of one of said relays and for connecting the coil of each relay other than said one relay to a circuit terminal through the contacts of another relay, whereby each relay is energized upon closing the control switch when the level of the electrolyte is above said predetermined value, and circuit connections interconnecting contacts of said relays and connecting the indicator to a source of current through the interconnected relay contacts to supply current to the indicator when all of the relays are energized.

2,534,634

METHOD AND MEANS FOR REMOVAL FROM AND BURNING OF ASH ON A GRATE

Cedric H. Sparks, London, England, assignor to Detroit Stoker Company, Detroit, Mich., a corporation of Michigan

Application November 9, 1946, Serial No. 708,976
In Great Britain October 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 1, 1965
6 Claims. (Cl. 110—37)



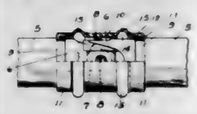
2. The combination in a furnace, of a stoker grate upon which solid fuel is adapted to burn, means providing an ash pit at one end of the grate into which ash may be discharged, conveyor means including a drag member arranged transversey of the grate and reciprocable longitudinally over the grate and ash pit for gathering ash from below the fuel bed on the grate and discharging it into said ash pit, and arch means over the ash pit and forming a screen over the drag member when the latter is disposed over the ash pit.

2,534,635

COVER FOR UNIVERSAL JOINTS

George B. Stillwagon, Jr., Dayton, Ohio, assignor of one-half to Kenneth G. Fraser, Dayton, Ohio

Application December 23, 1944, Serial No. 569,459
6 Claims. (Cl. 64—32)



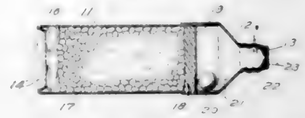
1. In a universal joint, two coupling members connected one with the other for relative movement about a plurality of axes, a cover comprising a longitudinally compressible cylindrical tubular structure of elastic material supported on said coupling members in longitudinal compression and having an intermediate circumferential portion deflected radially beyond the exterior cylindrical surface of said structure by said longitudinal compression, and attaching devices extending about the respective end portions of said tubular structure, connecting said end portions with said coupling members and retaining said structure in said longitudinal compression.

2,534,636

POWDER DISPENSER

Frank E. Stirn, Pearl River, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application February 12, 1949, Serial No. 76,078
3 Claims. (Cl. 128—206)



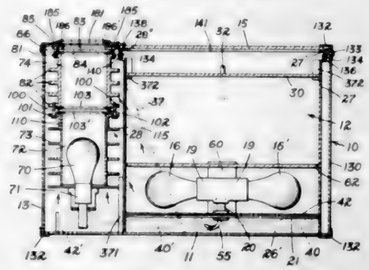
2. A powder applicator for the administration of a therapeutic agent comprising a chamber, gas inlet means adjacent one end of the chamber, a dehydrating agent partially filling the adjacent portion of the chamber, a sintered metal barrier sub-dividing said chamber and separating the dehydrating agent from the remainder of the chamber, a cloth screen, a bead serving as an agitator in the residual portion of the chamber, said residual portion being adapted to receive a therapeutic agent in finely divided form and a closure means for said chamber including a discharge orifice, and a cap for said discharge orifice.

2,534,637

X-RAY ILLUMINATING MECHANISM

David Sussin, South Fort Mitchell, Ky., assignor to The Kelley-Koett Manufacturing Company, Covington, Ky., a corporation of Ohio

Application March 26, 1945, Serial No. 584,920
6 Claims. (Cl. 40—132)



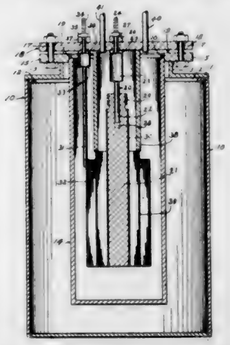
1. An illuminator for viewing X-ray films and the like, comprising a housing, a light transmitting viewing plate at one side of said housing against which an X-ray film may be viewed, a high intensity source of visible light located in said housing behind said viewing plate, said high intensity source of light being surrounded by an enclosure having its inner surfaces highly reflective of radiation from said light source and positioned to direct said radiations in a small diameter beam toward said viewing plate, cooling fins surrounding said light enclosure, a water cell comprising a metallic cylinder having cooling fins upon the exterior thereof, a closure for the rear end of said water cell which is transparent to visible light rays but substantially opaque to non-visible light rays, said viewing plate being attached as a closure for the front of said water cell, means for detachably connecting said water cell and said viewing plate to the front of the housing, means carried by the opposite end of said water cell for receiving and supporting the enclosure for said source of high intensity light, and means for controlling the effective film area illuminated by said light source and for preventing uncontrolled diffused lighting of said film areas.

2,534,638

ELECTROLYTIC PRODUCTION OF FLUORINE

Carl F. Swinehart, University Heights, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio

Original application December 17, 1947, Serial No. 792,248. Divided and this application February 8, 1949, Serial No. 75,137
5 Claims. (Cl. 204—60)



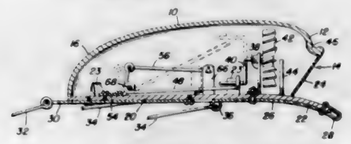
1. A process of generating fluorine comprising passing current through an electrolyte comprising KF and HF and containing from .005% to .01%, based upon the HF content, of water as an impurity between a carbon anode and a cathode, said anode being initially coated with a thin coating of metallic nickel, and continuing to pass current between said anode and cathode after said coating of metallic nickel has disintegrated.

2,534,639

FISH PLUG

Edward C. Twist, Tulsa, Okla., assignor of fifty per cent to Albert V. Fish, Tulsa, Okla.

Application May 10, 1949, Serial No. 92,369
8 Claims. (Cl. 43—26.2)



1. A fish lure comprising an elongated hollow body having a front end portion, and a rear end portion, openings in the front and rear end portions, a crank shaft having a water wheel thereon operatively mounted in the body between said openings, a rocker bar pivoted on said body and operatively connected with said crank shaft, and body members pivoted on said body and operatively connected with said rocker bar.

2,534,640

PROCEDURE FOR MAKING FODDER MEAL AND OIL FROM ANIMAL RAW MATERIALS

Otto Valen, Trondheim, Norway, assignor to A/S Lysøsund Sildolje- & Kraftforfabrik, Lysøsund pr., Trondheim, Norway

No Drawing. Application February 28, 1949, Serial No. 78,892
2 Claims. (Cl. 99—2)

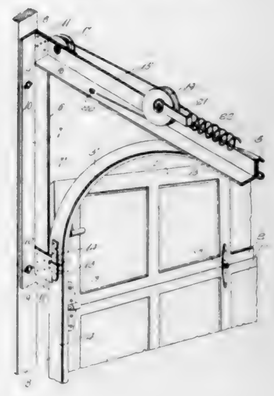
1. In the processing of fish for the preparation of fodder meal and oil the steps which comprise cooking the fish by indirect steam heating whereby "glue water" subsequently obtained is not diluted, pressing the cooked fish to obtain a press cake of wet fodder meal and an aqueous liquid extract comprising "glue water" and fatty oils, separating the oil from the "glue water," half-drying the press cake, admixing the "glue water," without concentration thereof, with the press cake, and completing the drying of the press cake, whereby the dried cake thus contains the dissolved solids of the "glue water."

2,534,641

GARAGE DOOR TRACK

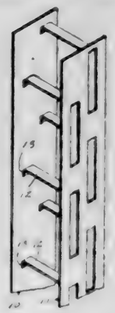
Clarence J. Veigel, Toledo, Ohio, assignor, by direct and mesne assignments, of one-half to John J. Bombard and one-half to Ray H. Neisewander, both of Springfield, Ill.

Application July 20, 1948, Serial No. 39,711
3 Claims. (Cl. 16—94)



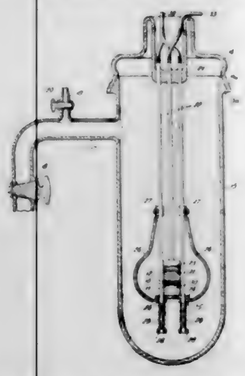
1. A garage door track comprising a vertical section, a horizontal section having a forward portion extending downwardly and at its lower end resting upon the upper end of the vertical section, a bracket having a portion adapted to be secured to a support and provided with an outstanding flange, a plate secured to said flange and projecting outwardly therefrom, said plate having its projecting portion disposed in overlapping engagement with the vertical track section, a tongue carried by the upper end portion of the vertical track section and extending transversely thereof and secured in overlapping engagement with said plate and together therewith defining a socket open at its upper end, a strip carried by the lower end portion of the downwardly curved forward portion of the horizontal track section and projecting downwardly therefrom and engaged in said socket to hold the abutting ends of the said track sections in alignment.

2,534,642
VENETIAN BLIND TAPE
Robert Vogel, New York, N. Y.
Application June 16, 1947, Serial No. 754,983
3 Claims. (Cl. 160—178)



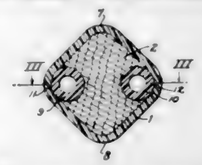
1. A Venetian blind tape construction comprising a pair of elongated parallel tapes, one of said tapes having two rows of horizontally and vertically spaced apart slat supporting straps cut from said one tape along two sides and one end, the opposite ends of said straps being integral with said tape, and said one end of said straps being fixed to the inner side of the other of said tapes to form a ladder-like construction.

2,534,643
METHOD FOR BRAZING BERYLLIUM
John Glenn Warner, Springdale, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application December 11, 1948, Serial No. 64,781
4 Claims. (Cl. 219—12)



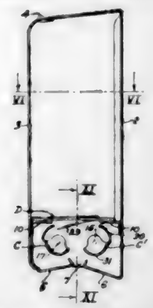
1. A method of securing a member made substantially entirely of beryllium to a metallic base, which comprises placing the base and the member against opposite faces of a thin layer of an alloy consisting of copper and an appreciable amount of beryllium not exceeding about 5.1% to form an assembly, placing the assembly between blocks of high resistance material, applying pressure through the blocks to opposite faces of the assembly, evacuating the space about the assembly and blocks, and, while the pressure on the assembly is maintained, passing current through the assembly and the blocks for a predetermined time to melt the thin layer.

2,534,644
LIQUID MEASURING GAUGE
Cyril M. Welch, Milbrae, Calif.
Application August 17, 1949, Serial No. 110,711
3 Claims. (Cl. 33—126.4)



3. A liquid measuring gauge comprising a square tubular body of transparent material; a reinforcing bar snugly fitting within said body with its opposite ends spaced back from the opposite ends of said body respectively and having longitudinal grooves in two of its opposed corners; transparent measuring tubes within said grooves respectively with their opposite ends extending beyond the length of said body; laminated plugs hermetically sealing the opposite ends of said body and consisting of superimposed layers of sheet material fitting the contours of said ends with adhesive cement interposed between said layers which will exude and adhere to said body when said plugs are compressed against the ends of said reinforcing bar; and nails extending through the said plugs in the opposite ends of said body and penetrating the ends of said reinforcing bar and having heads bearing against said plugs for compressing said plugs when said nails are driven into the opposite ends of said bar respectively.

2,534,645
TOWEL DISPENSING CABINET
Wilfred H. West, Oakland, Calif.
Application May 28, 1947, Serial No. 751,068
6 Claims. (Cl. 312—37)

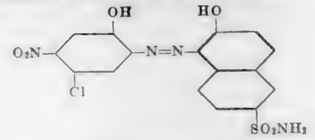


1. In a towel dispensing cabinet of the character described, a pair of cooperating rotors mounted for rotation on fixed axes for engaging a downwardly hanging fold on a towel and for feeding it through a discharge slot formed in the cabinet, said rotors both having a hook-like raised portion extending substantially from end to end thereof, said raised portions being circumferentially arcuate in cross section to define a radially inner surface and radially outer surface, said radially inner surface of said hook-like portion engaging the downwardly hanging end of a towel fold and directing it to a central point between the rotors, and said radially outer surfaces of said hook-like portions frictionally engaging opposite sides of the towel fold and feeding it out through said slot.

4. In a sheet towel dispenser, means for supporting a towel sheet with a freely extending portion, a pair of rotors spaced from said portion, circumferentially extending arcuate hooks on said rotors for deflecting, engaging and advancing towel sheets, and means for operating said rotors in unison and in symmetry to deflect said portion by contact with the inner surface of one of said hooks into a position to be engaged and advanced between the outer surfaces of said arcuate hooks.

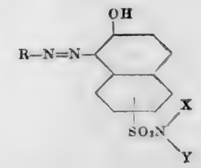
2,534,646
MONOAZO-DYESTUFFS
Willy Widmer, Bottmingen, Alphonse Heckendorn, Basel, and Emil Mannhart, Riehen, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application July 15, 1949, Serial No. 105,064. In Switzerland September 29, 1948
1 Claim. (Cl. 260—200)

The monoazo-dyestuff of the formula



2,534,647
SINGLE BATH CHROME DYEING PROCESS USING AZO DYES HAVING NAPHTHOLSULFONAMIDE GROUPS
Willy Widmer, Bottmingen, Alphonse Heckendorn, Basel, and Emil Mannhart, Riehen, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application September 6, 1949, Serial No. 114,291. In Switzerland September 29, 1948
7 Claims. (Cl. 8—42)

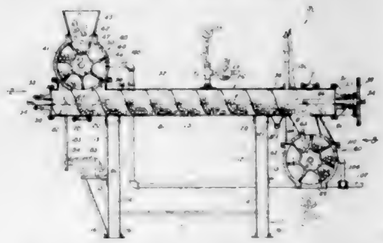
1. A process for producing fast dyeings, which comprises conducting the dyeing by the single bath chroming process with a solution containing an agent yielding chromium and a monoazo-dyestuff which is free from carboxylic acid and sulfonic acid groups and corresponds to the general formula



in which R represents an aromatic radical of the benzene series which contains a hydroxyl group in ortho-position to the azo linkage, in which the radical

occupies one of the β-positions of the six-membered ring of the naphthalene nucleus which does not contain the hydroxyl group, and in which X and Y each represents a member of the group consisting of a hydrogen atom, an alkyl group and a hydroxyalkyl group and together contain not more than 8 carbon atoms.

2,534,648
METHOD OF AND APPARATUS FOR STEAMING VEGETABLES
Paul C. Wilbur, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application June 12, 1945, Serial No. 598,938
3 Claims. (Cl. 146—226)



1. The method of steaming fresh whole vegetables to loosen their skins to facilitate peeling thereof, comprising the steps of maintaining a confined body of steam at constant pressure within a closed chamber substantially sealed from the atmosphere, constantly introducing said vegetables into said chamber by a series of successive increments, continuously advancing said vegetables through said chamber in a series of relatively shallow groupings thereof while constantly tumbling said vegetables relative to each other to subject all portions of the outer surfaces of all the vegetables in said chamber to uniform treatment by said steam, continuously discharging the steam treated vegetables from said chamber by a series of successive decrements as said vegetables conclude their passage through said chamber, and controlling the speed at which said vegetables are advanced through said chamber whereby the exposure of said vegetables to said steam in said chamber produces only that minimum degree of cooking of the outer layer of said vegetables which is necessary to facilitate the ready removal of the skin therefrom.

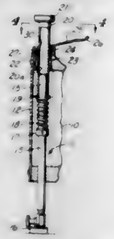
2,534,649
APPARATUS FOR WAVING HAIR
Frederick Witschi, New York, N. Y.
Application November 4, 1949, Serial No. 125,452
4 Claims. (Cl. 132—33)

1. In a hair waving curler comprising a hair clamping member and a spindle member mountable on said clamping member, said clamping member including a pair of arms and pivot means connecting one end of one arm to one end of said other arm, the free end of each of said arms having an upwardly extending portion provided with an aperture, the end of one of said arms adjacent said pivotal connection having upwardly extending resilient portions, said spindle member having a projecting stud on one end thereof for insertion into said apertures, the other end of said spindle member having a portion for insertion between said upwardly extending resilient portions of said one of said arms.

2,534,650
PLANOGRAPHIC PRINTING PLATE AND METHOD OF MAKING SAME
Stephen V. Worthen, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts
No Drawing. Continuation of applications Serial No. 747,138, May 9, 1947, and No. 758,215, June 30, 1947. This application June 26, 1950, Serial No. 170,486
21 Claims. (Cl. 101—149.2)

1. A planographic printing plate comprising a paper base and a planographic printing surface, said surface comprising insoluble hydrophilic adhesive material and finely divided inert mineral pigment, and having therein capillary interstices and pores containing the evaporation residue of an aqueous solution of a water-soluble bivalent metal salt in excess of the amount capable of reacting with the adhesive material.

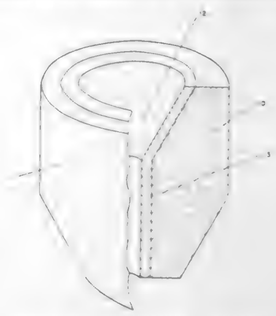
2,534,651
PRESSER BAR CONTROL FOR SEWING MACHINES
Ralph L. Abos, Laurence M. Stanfield, and Robert B. Myers, Los Angeles, Calif., assignors to Revco Products, Whittier, Calif., a corporation of California
Application March 26, 1948, Serial No. 17,265
19 Claims. (Cl. 112—236)



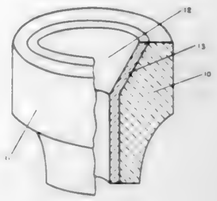
11. In means for varying the pressure imposed upon the presser foot of a sewing machine having a head, said foot being carried upon the lower end of a presser bar whose upper end is vertically movable in said head under the pressure of a spring thereon, the combination of: a retaining member provided with an axial, vertical bore and with a head at its upper end, said member being also provided with a short external thread for binding the headed member on the top of said machine head; a stem slidably mounted in said bore and having means at its top to be engaged for depressing said stem, and being adapted at its lower end for telescopically engaging the upper portion of said presser bar and being operatively engaged with said spring to vary the compression thereof; and a friction lock arm connected at one end with said retaining member and connected with said stem in engaging relationship to lock said stem by frictional engagement therewith.

2,534,652
METHOD OF MAKING COMPOSITE REFRACTORY
Adrian G. Allison, Lake Worth, Fla., and Chester R. Austin, Columbus, Ohio, assignors, by mesne assignments, to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application June 10, 1946, Serial No. 675,668
6 Claims. (Cl. 25—156)

1. In the production of a composite refractory, the steps which comprise pressing a body section from a refractory composition composed predominantly of a refractory clay and containing from about 10 to about 20% of water and subsequently, while still in moist condition, utilizing said body section as a mold into which a lining section composed predominantly of zirconium silicate is slip-cast.



2,534,653
METHOD OF MAKING COMPOSITE REFRACTORY
Chester R. Austin and Henry Z. Schofield, Columbus, Ohio, assignors, by mesne assignments, to The Ferro Engineering Company, Cleveland, Ohio, a corporation of Ohio
Application June 10, 1946, Serial No. 675,669
9 Claims. (Cl. 25—156)



1. The method of producing a composite refractory nozzle having a body portion and a liner portion in the seat and bore sections thereof which comprises pressing a body section from a refractory composition composed predominantly of fire clay, moistening the surface to be lined with a concentrated solution of sodium chloride, spinning into position a lining composed of at least 85% zirconium silicate while maintaining accurate internal dimensions by means of a revolving arbor, and subsequently drying and firing the composite refractory.

2,534,654
ULTRAVIOLET ABSORBING FILTER
Arthur Barnes, Waltham, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application January 11, 1946, Serial No. 640,594
4 Claims. (Cl. 88—109)

1. An ultraviolet light absorber comprising a carrier layer of a substantially transparent hydrophilic material, ultraviolet light-absorbing particles dispersed throughout said carrier, said particles being formed of a substantially transparent, water-impermeable material having furfuralazine contained therein.

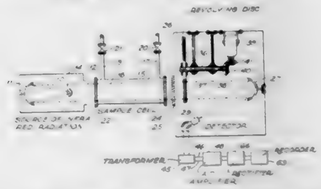
2,534,655
OPHTHALMIC DEVICE
Charles A. Baratelli, Boston, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application February 14, 1947, Serial No. 728,393
2 Claims. (Cl. 2—14)

1. In an ophthalmic device having a lens member of deformable, transparent plastic material which is adapted to extend across both eyes of a wearer of the device and which has its lower edge provided with a nasal recess located centrally of its ends while its upper edge is substantially unbroken and is of convex shape, said lens member being mounted and maintained in a condition of curvature which conforms to the general contour of the face whereby the inner surface of said lens member adapted to be located adjacent the face is concavedly curved and the outer surface of the lens member is convexedly curved, in combination, means for mounting and substantially maintaining said lens member in a desired curvature and also for effecting the positioning of the lens member on the face of a wearer, said means comprising a frame formed of a relatively thin, lightweight metal channel member substantially continuously engaged for its full length with the opposite faces of said lens member and a bar fixed to and stiffening said channel member forming said frame and maintaining said channel substantially rigid, said channel member extending across the upper edge of said lens member and partly around the side edges of the lens member and having a central section which in plan is concavedly curved on the inner surface thereof in a relatively flat curve, the central section of said channel member being joined at opposite ends by side sections which are of similar curvature with respect to each other and which in plan are also concavedly curved on the inner surfaces thereof but in sharper curvature than said central section, said channel member also curving downwardly from its center toward its ends and being of a length to reinforce the lens member along the sides thereof whereby to retain it in its curved condition, said bar being located on the side of the frame adapted to be positioned nearest the face of the wearer and being secured near its ends to said frame whereby to substantially maintain the frame in said curvatures, said bar having a central portion spaced from said frame and bearing against the forehead when said ophthalmic device is being worn to assist in positioning the lens member and its nasal recess in viewing position upon the face of the wearer with the elements of the lens member nearly vertical, and temple means hinged to each end of said bar.

2,534,656
GRINDING MILL CONTROL
Fred C. Bond, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 16, 1945, Serial No. 588,463
5 Claims. (Cl. 241—21)

1. The method of grinding materials in a continuous grinding mill comprising the steps of feeding material to be ground into said mill at a variable rate, taking a substantially continuous sample of the product discharged from the mill, creating an agitated suspension of said sample in a predetermined proportional quantity of a transparent fluid medium, measuring a light transmission characteristic of said suspension, producing an electric current varying in value in response to changes in said light transmission characteristic so determined, and applying said electric current to the control of the rate of feed of material to said mill.

2,534,657
MONOCHROMATOR
Ellis E. Bray, Cedar Hill, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 7, 1948, Serial No. 43,051
9 Claims. (Cl. 250—83)

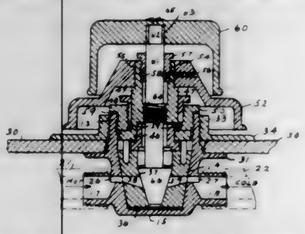


1. A process for the analysis of a material capable of selectively absorbing wave lengths of infrared radiation comprising projecting a beam of infrared radiation through a sample of said material, alternately placing into and removing from said beam of infrared radiation at a predetermined frequency a portion of a material having the same infrared radiation absorption characteristics as the component of said sample of material for which analysis is being made, converting said infrared radiation to electrical energy, filtering direct current component from said electrical energy, and measuring alternating current component of said electrical energy.

2,534,658
MIXING AND VOLUME CONTROL FAUCET
Charles Kepler Brown, Jr., Fairmont, W. Va.
Application July 25, 1946, Serial No. 686,219
2 Claims. (Cl. 277—11)

1. A mixing faucet unit comprising in combination, a body member provided with threaded

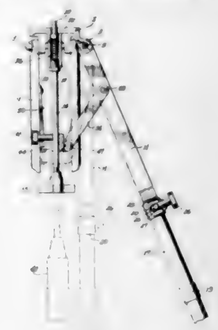
portions at its upper end and a tapered lower portion having a collar near its upper end for supporting said body, said body member having plural orifices therein, a hollow plug member having holes in its upper face, and having tapered inner and outer walls for insertion in said tapered lower portion of said body and a mixing chamber therein said hollow plug member having orifices therethrough at predetermined positions and elevations for aligning with the orifices in said body member at predetermined locations, a valve head having a key on its upper face and positioned in the inner portion of said hollow plug for controlling the flow of fluids therethrough, a clamp plate attached to the upper outer portion of said body member to cooperate with said collar, a hollow spindle having a flanged lower portion and a threaded inner por-



tion, said flange of said spindle being provided with pins for contacting and rotating said hollow plug member, a flanged nut attached to the upper inner portion of said body member stuffing material positioned in said nut, a packing nut for insertion in said flanged nut and contacting the stuffing material and centralizing the spindle in said body member, a cap member attached to said spindle for rotating it and the hollow plug member, a stem with screw threads formed at its middle portion and having a valve head at its lower end, a handle connected to the other end of said stem for controlling the flow of liquids through the outlets, and a spacer collar having a key way in its lower face attached in said spindle, the key way being contacted by the key on the valve head to rotate the collar, and for regulating the hollow plug in said body member to take up wear.

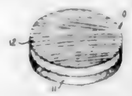
2,534,659
TRIPOD
Carlos J. Cardona, North Hollywood, Calif.
Application September 23, 1946, Serial No. 698,670
3 Claims. (Cl. 248—191)

1. A tripod including a table member having three circumferentially arranged and angularly disposed knuckles extending therefrom, a tripod leg pivotally attached to each of said knuckles, each tripod leg comprising an upper leg portion having two semi-cylindrical leg elements with their flat sides opposing each other, the upper ends of said leg elements being pivotally connected to a knuckle and a guide ring carried by the lower end of each leg element; the lower leg assembly comprising a pair of leg sections joined at the bottom, the upper ends of said leg sections being semi-cylindrical and extending through the guide rings with the flat sides of the leg sections in sliding contact with the flat sides of the leg elements; and a clamp fitting carried by and connecting the upper ends of the leg sections, said fitting including a body portion and a pair of integral hold rings, each ring encircling adjacent leg elements and leg sections; a bore through the body portion transverse to the axis of the hold rings, a presser pin extending through each leg section and into said bore; and adjustable means carried by the



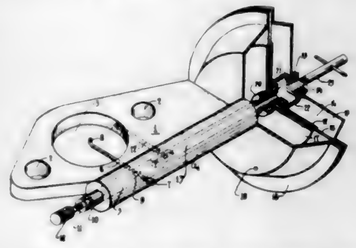
said body and cooperating with said presser pins for clamping adjacent leg elements and leg sections against relative movement.

2,534,660
STOP PAD FOR WIND INSTRUMENTS
James A. Collis, Los Angeles, Calif.
Application December 19, 1945, Serial No. 635,858
4 Claims. (Cl. 84—385.1)



4. In a substantially discoidal stop pad for wind instruments comprising a body of closed-celled sponge rubber and a smooth surface formed on at least one side thereof adapted when mounted in said wind instrument to selectively close a sound selecting aperture, the improvement comprising a thin, yieldable film on said smooth side of glossy, hard-surfaced resinous material.

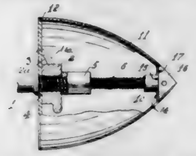
2,534,661
VAPORIZER
Robert J. Dieker, St. Louis, Mo.
Application November 30, 1945, Serial No. 631,901
1 Claim. (Cl. 261—69)



A vaporizer for internal combustion engines comprising a tubular valve casing provided with a horizontal fluid passage extending transversely therethrough, a horizontal disposed flange provided with a centrally located aperture and diametrically opposed bolt-receiving holes integrally

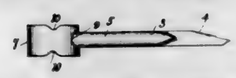
formed on said casing and adapted to be positioned betwen a carburetor and an intake manifold, an injector extending from the inner extremity of the fluid passage into the aperture in the flange, an angularly disposed extremity on the injector adapted to project into the intake manifold, a cylindrical valve element longitudinally reciprocable in said valve casing for opening, closing and adjusting the area of said fluid passage, a manually adjustable needle valve axially mounted in one extremity of the valve element for controlling the area of the fluid passage, a diaphragm secured to the other extremity of the valve element, a housing enclosing said diaphragm and divided thereby, a vacuum connection from the intake manifold of the engine to the housing at the side of the diaphragm farthest removed from the valve casing, said vacuum connection comprising a centrally located longitudinal bore in the cylindrical valve element having connection with a transverse bore in the valve casing and integral flange, resilient means for holding the diaphragm against the vacuum, and means for manually adjusting said resilient means.

2,534,662
DEVICE FOR ATTACHING PROPELLER SPINNERS
Randall E. Froom, Glendale, Calif.
Application November 13, 1948, Serial No. 59,805
2 Claims. (Cl. 170—159)



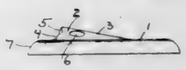
1. A propeller shaft having screw threads on the outer end thereof and provided with a shoulder at the base of said screw threads, a circular base plate seatable on the screw threads of the shaft, a conoidal spinner, a cylindrical clamping member seated in the front end of the spinner and having a conoidal head of a size and shape to continue the outline of the spinner, there being a threaded recess in the inner end of the member, a threaded rod seated in the threads of said recess and extending to the front end of the propeller shaft, and an adapter element engaging the threads of the rod and the threaded front end of the shaft, the element being rotatable on the threads of the shaft to lock the spinner base plate in position thereon, the member being rotatable on the threads of the rod to lock the spinner in position on the base.

2,534,663
FASTENING DEVICE
Emanuel Gisondi, Washington, D. C.
Application June 13, 1946, Serial No. 676,510
4 Claims. (Cl. 85—11)



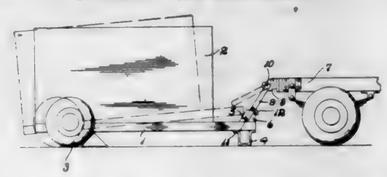
1. A nail having a shank composed of a pair of legs pointed at one end and joined together at one side adjacent to said end, said legs being folded along their line of joinder to cause them to be disposed in overlying relation, one of said legs being longer than the other and with at least the free end thereof being reinforced against lateral bending, the short leg having a head curled into substantially cylinder form, said head being integrally attached at one end to the short leg and forming shoulders at said point of attachment, the head being extended over the rear end of the long leg and having a slotted free end straddling the short leg behind the shoulders thereon.

2,534,664
RECTUM FITTING
Louis Gottlieb, Sam M. Gottlieb, and Goldene Gottlieb, Kansas City, Mo.
Application October 24, 1949, Serial No. 123,249
1 Claim. (Cl. 128—303.11)



A therapeutic device comprising a member having a pair of similar concavities receiving the gluteus muscles of a patient, and an inclined plane or wedge separating said concavities, the two side faces of the wedge having identical slopes, but the fore and aft inclinations being comparatively gradual and abrupt in relation to each other.

2,534,665
LIFT TOW HITCH
Leo O. Greeley, Wexford, Mich., assignor to General Sales Company of Cadillac, Cadillac, Mich., a limited partnership of Michigan
Application December 23, 1946, Serial No. 718,014
4 Claims. (Cl. 280—33.44)

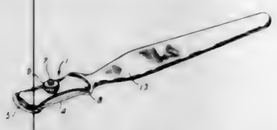


1. In a construction as described, a trailer including a generally horizontal trailer frame including carrying wheels disposed adjacent the rear portion of said frame, a hitch member pivotally connected at one end to and adjacent the front of said trailer frame extending upwardly and forwardly therefrom and provided at its forward end with a coupling member, a latching member mounted on said hitch member between its ends, and a retaining member to cooperate with said latching member connected with said trailer frame at its front end portion and with which said latching member automatically engages upon relative pivotal movement of the trailer frame, and hitch member to each other to a position in which the trailer frame and the hitch member are disposed more nearly into alinement with each other than in the first mentioned position.

2,534,666
CORN KNIFE
Archa D. Grisso, Fort Worth, Tex.
Substituted for abandoned application Serial No. 40,730, July 26, 1948. This application November 14, 1949, Serial No. 127,199
1 Claim. (Cl. 30—26)

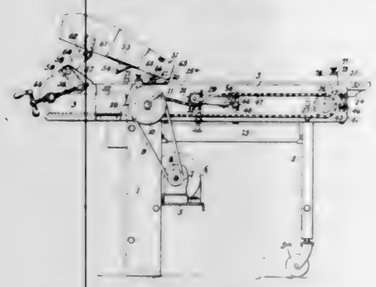
A holder for a double-edged safety razor blade having a longitudinal slot in its center, said holder comprising: a substantially rectangular head having a convex outer surface, guards per-

pendicularly projecting from the ends of said head and adapted to receive said razor blade therebetween, inwardly formed edges along the sides of said head and inwardly of said projections, a longitudinal rib projecting from the center of the inner surface of said head and adapted



to engage the slot of said blade, a handle projecting from the center of one end of said head, a rectangular blade clamp narrower at its center than said blade, and means securing said clamp to the said head with said blade positioned therebetween.

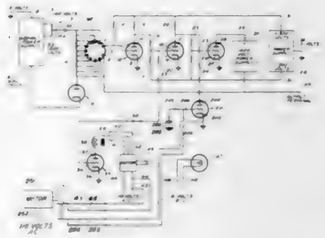
2,534,667
CONVEYING DEVICE
Max M. Guggenheim, New York, N. Y., assignor to National Equipment Corporation, New York, N. Y., a corporation of New York
Application August 26, 1949, Serial No. 112,496
5 Claims. (Cl. 198—53)



1. In a conveying device, a supporting surface composed of a plurality of spaced-apart substantially parallel bars, a hopper supported in an inclined position above said bars, rollers on the hopper resting upon said bars, a plurality of connected lifter members located in the spaces between the bars and normally positioned with their upper surfaces below the upper surfaces of the bars, means for imparting an eccentric movement to the lifter members to cause the same to be raised to bring their upper surfaces above the upper surfaces of the parallel bars, then moved forwardly, then downwardly and then back to their initial lowered position, said movements of the lifter members causing raising and lowering movement of the rollers and the hopper mounted thereon and causing lifting and advancing movement of articles supported upon the bars.

2,534,668
AUTOMATIC INVERSE FEEDBACK METHOD AND MEANS FOR CORRECTING RESPONSE CHARACTERISTIC OF PHOTOTUBE CIRCUITS
Norman R. Gunderson, Pasadena, Calif.
Application October 18, 1948, Serial No. 55,034
2 Claims. (Cl. 250—207)

1. In an amplifier system including an electron multiplier phototube having a cathode, an anode, and a plurality of dynodes, a voltage supply for said dynodes and an output, the provision of means arranged to automatically correct for changes in effective amplification of the phototube, said means comprising: means for supplying light to the phototube; an inverse feedback adjustment means responsive to the output anode current of the phototube and arranged to modify the effective amplification of the phototube; means for frequently rendering the feedback adjustment means effective for periods of short

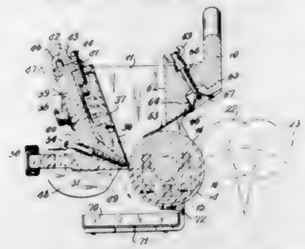


duration; and means for restoring light input to the phototube to a constant value expected to produce an output anode current of selected value during said periods, said feedback adjustment means being arranged to adjust the voltage supplied to the dynodes of the phototube by maintaining the said cathode at a constant potential and varying the potential applied to said dynodes in accordance with the deviation of the output anode current obtained during said period from the output anode current of selected value.

2,534,669
NECKTIE
Harvey C. Hall, Oakville, Ontario, Canada
Application March 19, 1949, Serial No. 82,335
5 Claims. (Cl. 2—150)

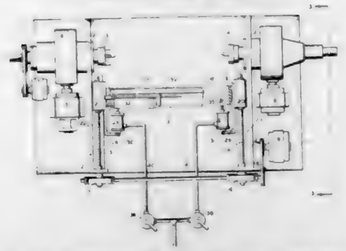
1. In a necktie of the made-up knot type, a hollow member enclosed within the knot, a neckband having one end extending through and sliding in the hollow member in the knot, and a clip secured to the other end of the neckband and fitting within said hollow member in a clip receiving passage formed therein to be engaged by said member when inserted therein to be releasably locked therein, said clip receiving passage being asymmetrical in cross section presenting different cross sectional shapes on opposite sides of any plane cutting said passage longitudinally and in a direction back to front of said "knot," and said clip being shaped asymmetrically in cross section to correspond to the asymmetry of said passage to permit entry of said clip into said passage in one direction of orientation only and preventing entry of said clip when turned through 180°, said clip having a sharpened extension to engage and hold the slidable end of the neckband.

2,534,670
INK FOUNTAIN
Charles W. Harrold, University Heights, Ohio, assignor to Harris-Seybold Company, a corporation of Delaware
Application March 13, 1946, Serial No. 654,155
8 Claims. (Cl. 101—364)



1. In an ink fountain, a body member having fixed end walls and a side wall, a roller mounted at the bottom of the body member and spanning the distance between said end walls, and a second side wall having a downwardly extending blade meeting said roller on the down-going side thereof along a line substantially level with the roller axis and at an included angle of not more than 45°.

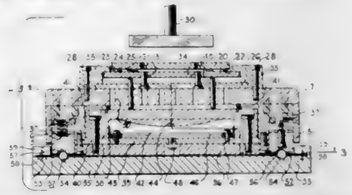
2,534,671
BARK REMOVING LATHE
George Haumann, Portland, Oreg.
Application December 8, 1947, Serial No. 790,313
11 Claims. (Cl. 144—209)



1. A log conditioner of the lathe type wherein a log is held between head and tail stocks and revolved against a cutting implement comprising a frame, revolving head and tailstocks operably mounted thereon, a cutterhead movable towards and away from a log held between said head and tailstocks, leadscrews operably mounted on said frame, lead blocks threadably engaged by said leadscrews, means for revolving said leadscrews, yokes made rigid with said lead blocks and overhanging the rear sides of said cutterhead at the ends thereof, air cylinders with piston rods therein pivotally connected between said overhang of the yokes and said cutterhead, fluid pressure conduits connected independently to said air cylinders and independent manual control throttles for said conduits.

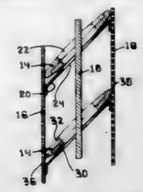
2,534,672
WORK SUPPORTING DEVICE
Aldrich R. Hedberg, Cleveland, Ohio, assignor, by direct and mesne assignments, of one-half to Melvin E. Lorentz
Application July 14, 1945, Serial No. 605,105
7 Claims. (Cl. 164—110)

1. A work supporting device, comprising in combination, a pressure plate, force exerting means mounted on said pressure plate, a perforated plate mounted a distance above said pressure plate, said force exerting means exerting a force in the direction of said perforated plate, and force transmission means extending from said force exerting means through said perforated plate to transmit force therethrough, mobile carriage means to carry said device relative to said work base, said mobile carriage means including runner block means having a ball race therein, said work base comprising a track base to carry said carriage means, said track base having a ball race therein, a plurality of balls



positioned between said runner block means and said track base in said ball races, a ball positioning plate having a plurality of spaced openings therethrough, said plate being positioned between said runner block means and said track base with said balls positioned in said plate openings, and resilient mounting means positioned to support said device on the runner block means and to urge said device and the block means a distance apart, whereby said mobile carriage means is free to carry the device relative to the base, said resilient mounting means being compressible to permit said pressure plate to move toward and rest upon said base.

2,534,673
VENETIAN BLIND SLAT
John Ward Holland, Dayton, Ohio
Application June 11, 1945, Serial No. 598,834
3 Claims. (Cl. 160—236)

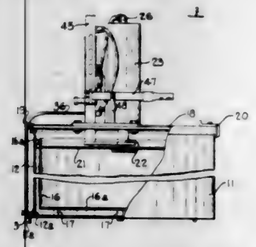


1. As a new article of manufacture, a slat for Venetian blinds of symmetrical cross section constructed of two identical strips each of which consists of a body section having a convexly curved tip, said tips being joined to the body through only a portion of its cross sectional base width and having its unattached end terminating in a surface forming an internal angle with said body section, said body section terminating at the end opposite the curved tip in a surface forming an angle supplemental to that formed between the tip and body, the two strips being laid together with their complementary surfaces in contact and sealed along their contiguous edges.

2,534,674
FLUID POWERED WASHING MACHINE
Artie F. McFarland, Houston, Tex., assignor to McFarland Manufacturing Corporation, Houston, Tex., a corporation of Texas
Application January 11, 1946, Serial No. 640,543
5 Claims. (Cl. 68—122)

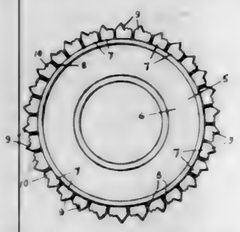
1. A trip mechanism for and in combination

with a fluid actuated valve adapted for use in regulating the flow of power fluid to a hydraulic ram having a driving member, said trip mechanism comprising a mechanically manipulated valve operable to control the flow of actuating fluid to the first valve, connections between the hydraulic ram and the second valve adapted to



actuate said valve, the connections including a member having a series of slots and connected with the driving member of the ram, a link connected to the second valve and selectively engageable with the slots of said member whereby the driving member of the ram may be reciprocated between selected limits.

2,534,675
TRACTOR TREAD FOR DISINTEGRATING CORNSTALKS
Gustave L. Miller, Geneseo, Ill.
Application January 2, 1947, Serial No. 719,729
1 Claim. (Cl. 152—209)



In a device for disintegrating corn-stalks and other material, the combination with the tire of a heavy vehicle, of a broad and flat tread formed integrally with said tire, and resilient shoes mounted on the tread, with a narrow spacing between the shoes, each shoe provided with a tooth cross-rib forming a cutting member, and a series of serrations relatively smaller than the cross-rib and alternating therewith, for a further pulverizing action.

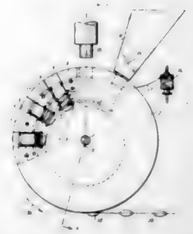
2,534,676
PREPARATION OF COMPOUNDS OF URANIUM AND NONMETALS
Amos S. Newton and Oliver Johnson, Ames, Iowa, assignors to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application February 16, 1945, Serial No. 578,346
9 Claims. (Cl. 23—14.5)

1. A process of preparing a compound of a non-metal and uranium which comprises reacting uranium hydride with the vapors of a compound of hydrogen and a non-metal selected from groups III, IV, V, and VI of the periodic table.

2,534,677
PRODUCTION OF URANIUM HALIDES
Amos S. Newton and Oliver Johnson, Ames, Iowa, assignors to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application February 17, 1945, Serial No. 578,538
10 Claims. (Cl. 23—14.5)

1. A process of preparing a uranium halide which comprises reacting uranium hydride with a halogenating agent selected from the group consisting of elemental halogens, hydrogen halides, carbonyl halides and halogen substituted methanes.

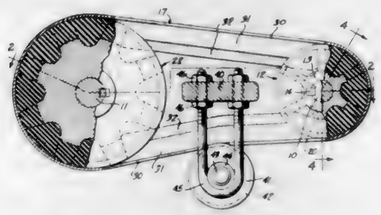
2,534,678
DEVICE FOR MAKING STRINGS OF PRESSED ARTICLES
Anton P. R. Obermann, Santpoort, and Richard W. H. Obermann, Bloemendaal, Netherlands, assignors, by mesne assignments, to N. V. Chemische Industrie "Rids," Haarlem, Netherlands, a company of the Netherlands
Application February 18, 1946, Serial No. 648,448
In the Netherlands May 27, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 27, 1963
4 Claims. (Cl. 18—21)



2. In a machine for the manufacture of pressed articles on a string, in combination, a rotatable cylinder having matrix-holes arranged along its surface, feeding means disposed to face said surface and said holes, a channel in said surface disposed concentrically to said cylinder and arranged to traverse said holes, means for feeding a string element into said channel, said element being adapted to travel with and in the direction of the rotation of said cylinder, a reciprocable die located in a stationary position opposite said surface and said holes, said die being adapted to radially, intermittently enter in, and withdraw from successive ones of said holes, spring plungers in said holes acting radially outward against said die, string guiding means in said cylinder, said string guiding means being disposed at and transversely to said channel, and ejection means stationarily disposed within said cylinder adapted to glidingly engage the inner ends of said spring plungers.

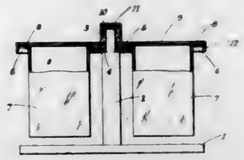
2,534,679
BELT DRIVE ASSEMBLY
Charles I. Place, New Milford, Conn.
Application July 21, 1945, Serial No. 606,325
7 Claims. (Cl. 74—229)

7. A belt drive assembly including a pair of pulleys adapted for coaction with a belt of sponge-like stock operable adjacent the pulleys, at least one of the pulleys including a row of alternately dissimilar deeply recessed formations adapted sequentially to engage the belt, and certain of said formations each having an air-discharge passage from its innermost portion, said formations being alternately of differing width and



depth to cause a cycle of expansion movements of said stock in different directions, as a given point of the belting moves about the pocketed pulley.

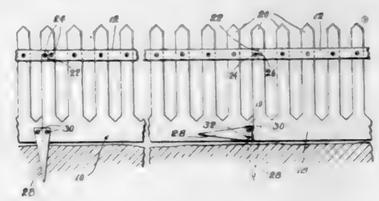
2,534,680
FOOD HOLDING UNIT
Leonard R. Poirier, Stockton, and Vernon E. Provost, San Francisco, Calif.
Application March 8, 1949, Serial No. 80,156
4 Claims. (Cl. 211—77)



4. A food holding unit comprising a base having an upstanding post, a horizontal disc turnably mounted on the upper end of the post, a plurality of open topped food containers of a lesser depth than the height of the post, the disc having apertures cut in from the periphery of a size to completely receive the containers, a rim flange on each container to overlap and engage the disc to support the container therefrom and permitting of removal of the container from the disc upon horizontal outward sliding movement of such container, a spindle upstanding from the post axially thereof, and a lid to engage and cover all the containers simultaneously, said lid having a peripheral depending flange engaging about the periphery of the disc when the lid is resting on the containers and having an upstanding central handle-forming boss provided with a bore slidably and turnably engaging over the spindle.

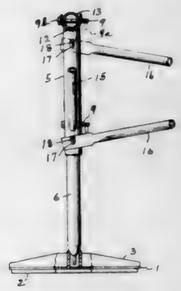
2,534,681
PICKET FENCE SECTION
Boardman M. Randall, Portsmouth, N. H.
Application April 1, 1947, Serial No. 738,676
2 Claims. (Cl. 256—24)

1. A picket fence section readily combinable with other similar sections to constitute a fence, said section being the total residue of a rectangular plywood panel from which an identical fence section was removed, and comprising an intact base portion extending from end to end of the section, a multiplicity of uniformly dimensioned pickets integral with said base portion and projecting therefrom in parallelism with the space between pickets equal to the width of a picket, said base portion having one of its ends in the plane of the outer edge of one end-most picket and having its other end projected beyond the other end-most picket a distance equal to the width of a picket, a stake pivotally mounted on



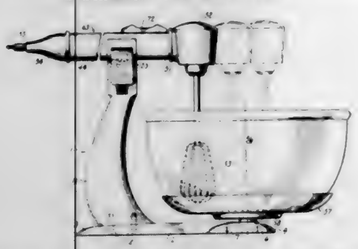
the said projected end of the base portion and swingable between a position where every portion thereof overlies the base portion and a position where it projects a substantial distance generally at right angles to the base edge and also projects beyond said projected end of the base portion for attachment thereto of an adjacent fence section.

2,534,682
ADJUSTABLE PIPE RACK
Alces P. Robishaw, Houston, Tex., assignor to C. N. Housh, Houston, Tex.
Application November 18, 1946, Serial No. 710,695
3 Claims. (Cl. 211—182)



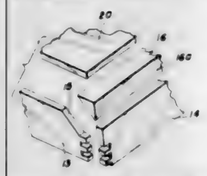
1. In a knock down rack, a plurality of upright supports arranged in aligned, spaced, and crossed rows, saddles at the top of the supports, sills supported by the saddles in parallel relation to each other, truss members extending transversely of the sills between adjacent uprights, a broad base at the foot of each upright releasably supporting it, the engagement between the uprights and bases each including a nipple secured to one and a near semi-spherical face formed on the other and engaging the open end of the nipple, a pin extending from the face into the nipple engageable with the nipple to limit relative universal movement of the uprights relative to the bases, each base being broad to provide a substantial bearing area to engage a supporting surface, the truss members being such as to serve both as tension and compression members, being two in number and crossed between each adjacent pair of uprights, and releasably secured to the uprights by lugs extending radially from the uprights, openings in the truss members adjacent thein ends receiving the elements, and upstanding end portions on said lugs retaining the truss members against lateral movement.

2,534,683
SUPPORT FOR HOUSEHOLD UTILITY DEVICES
Howard F. Schmidt, San Diego, and Glendon T. Gerlach, Coronado, Calif., and John C. Squiers, Detroit, Mich., assignors of one-half to said Schmidt, one-eighth to Walter J. Jason, one-eighth to Thomas P. Mahoney, one-eighth to Mildred E. Novak, all of San Diego, Calif., and one-eighth to said Gerlach
Application March 20, 1947, Serial No. 735,825
4 Claims. (Cl. 248—121)



1. In a device of the character described, a standard, a power transmitting means, and clamping means provided on said standard for releasably engaging said power transmitting means, said clamping means comprising a pivotally mounted grasping element adapted to engage said power transmitting means, a pivotally mounted locking means, and a link member pivotally mounted at its ends to said grasping element and said locking means through which said locking means can move said grasping element into and out of operative position.

2,534,684
REINFORCED LUGGAGE BOX
Frank Serpico, Philadelphia, Pa.
Application July 17, 1948, Serial No. 39,217
5 Claims. (Cl. 217—5)

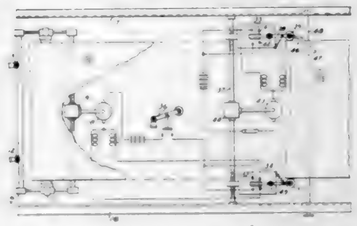


1. For luggage, a box comprising sides, ends and a closure, right-angle reinforcing members coextensive in length with said sides and each adhesively secured to the inner surface of a side of the luggage box along one right-angle surface, the other right-angle surface of each member being coplanar with the closure-engaging edges of said ends to provide additional bonding surfaces for said closure, said ends having 45 degree angle cut-outs for receiving and guiding and supporting the ends of said angle reinforcing members, the corner-intersecting extremities of said sides and ends being secured together in tongue and groove relation, and means including an adhesive for bonding the inner surface of said closure to said angle reinforcing members and to the coplanar edges of said ends, said reinforcing members after rounding of the corners of said luggage box adjacent said closure presenting an unbroken surface and at the corners an appearance of interlocking relation between each reinforcing member and each corner-intersecting side and end.

2,534,685
CORN SNAPPING ROLLS
Everett E. Shrader, Ravenna, Nebr., assignor of one-half to Arthur H. Sturges, Omaha, Nebr.
Application December 5, 1949, Serial No. 131,135
2 Claims. (Cl. 130—5)

1. In a pair of snapping rolls for a corn picker, the combination which comprises, juxta-positioned similar cylindrical members providing the rolls, the diameters of the leading ends of which are less than the diameters of the trailing ends, the peripheral surfaces of each of said rolls being provided with a plurality of circumferentially spaced coacting helical ridges, said ridges extended from the leading ends of the rolls to points spaced beyond the midway sections thereof, a plurality of spaced parallel longitudinally disposed elongated lugs extended from the ends of said ridges, and spirally disposed ribs extended between the ends of the said lugs and the trailing ends of the rolls, said ribs extended in a direction opposite to that of the said helical ridges.

2,534,686
WEB POSITION CONTROLLING DEVICE FOR WEB MATERIAL TREATING MACHINES
Orville L. Strauss and Clarence J. Wegner, La Porte, Ind., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 2, 1947, Serial No. 789,342
7 Claims. (Cl. 242—76)



1. In a machine adapted to feed a web longitudinally therethrough, the improvement comprising a web supplying carriage transversely movably connected relative to the machine, transversely spaced web edge contacting members positioned at equal distances from a plane extending longitudinally of the machine in generally normal relation to the web passing therethrough and supported for movement toward and away from said plane, means biasing said members toward said plane, said members being movable in response to variations in the transverse position and width of a web as it passes through the machine, means responsive to the movement of one of said members for transversely moving said carriage, and means for transversely shifting both of said members toward or away from each other in response to a movement of the other of said members.

2,534,687
WINDOW CONSTRUCTION
Clyde R. Smith, Akron, Ohio
Application May 11, 1946, Serial No. 669,155
6 Claims. (Cl. 20—52)

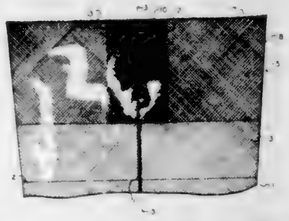
3. A window construction comprising spaced parallel guide members adapted to be at opposite sides of a window opening, a closure panel, said guide members each including elongated superposed strips having elongated portions providing guide channels, longitudinally spaced clamping means on said members clamping said superposed strips together whereby the guide members are self-contained units slidably engaging said elongated portions of the strips with corresponding side edge portions of said closure panel received in said channels, said spaced clamping means each including a cup-shaped receptacle having an aperture in the closed end thereof, said receptacle slidably extending through said superposed strips from one side of the guide member and being anchored to the same at said one side of the guide member, an elongated element extended into said receptacle through said aperture in the closed end thereof and having a head in stop engagement with the opposite side of the guide member, an adjusting member adjustably mounted on the opposite end of said element accessible at said first-named side of the guide member, and a compression spring extending between said adjusting member and the closed inner end of said receptacle applying yielding clamping action to said superposed strips, said adjusting member being adjustable relative to said element for varying the tension of said spring.

2,534,688
MULTIUNIT ELECTRON DISCHARGE TUBE
Pierre Marie Gabriel Toulon, Neuilly-sur-Seine, France, assignor to Products & Licensing Corporation, New York, N. Y., a corporation of Delaware
Application July 25, 1947, Serial No. 763,663
In France March 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 11, 1963
4 Claims. (Cl. 250—27.5)

1. A gaseous conduction discharge system, comprising, a gas filled container, a first tube section comprising a first anode and a first cathode, a second tube section comprising a second anode and a second cathode, all located within said container, at least one further electrode interposed between said first anode and cathode and said second anode and cathode, each of said anodes and each of said cathodes having a predetermined potential, and means for establishing a further

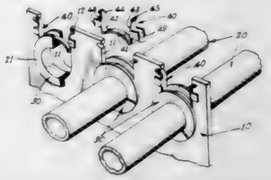
potential for said further electrode, said further potential more negative than the most negative predetermined potential of any of said anodes and cathodes.

2,534,689
FULL-FASHIONED HOSIERY
Abrasha Wilcher, Manchester, N. H., and Melvin J. Gordon, Brookline, Mass., assignors to Melvin J. Gordon, Sadye Z. Gordon, and Natalie G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H.
Application January 13, 1949, Serial No. 70,754
1 Claim. (Cl. 66—173)



In a full-fashioned flat knit seamed hose having a top double welt with an opening along the seam at the inside of the welt, a section in the outer side of the welt on each side of the seam knit of heavier thread than the remainder of the welt, said section being substantially less in extent than half the circumference of the hose at the top and greater than the width of the opening and extending throughout the vertical extent of the welt.

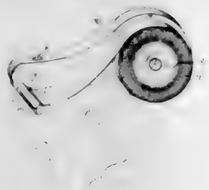
2,534,690
TUBE SUPPORT
John Young, Jr., South Gate, and Robert J. Bower, Los Angeles, Calif., assignors to Hughes Tool Company, Houston, Tex., a corporation of Delaware
Application September 10, 1945, Serial No. 615,450
9 Claims. (Cl. 248—68)



1. In a device for mounting a tenuous member in a relatively rigid supporting element providing a recess adapted for the reception of the tenuous member and having a base section and a pair of side walls extending to the edge of said supporting element, one of said side walls having a notch therein, a relatively resilient clamping means comprising: a base segment traversing

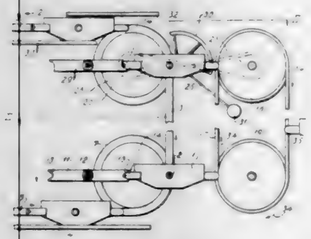
said recess; an arm extending from said base segment and lying along said notched side wall; and means carried by said arm and adapted to extend into said notch for retaining said base segment in position.

2,534,691
TAPE APPLICATOR
William Paul Zabel, Jr., Cleveland Heights, Ohio
Application September 13, 1949, Serial No. 115,377
2 Claims. (Cl. 216—33)



1. In a tape applicator, a frame plate, a stud projecting laterally from said plate near one end thereof for rotatably supporting a supply spool of tape, a peg fixed in and projecting laterally from the same side of said frame plate near the opposite end thereof, said peg having a smooth lower surface adapted to bear against the upper surface of a length of tape being unwound from said roll and apply it to a receiving surface, and said peg having a cutting edge along its upper side for severing the tape after the frame plate has been manipulated to withdraw the peg laterally from above the tape and to insert it beneath the tape, said frame plate being provided with means for receiving and mounting said stud and said peg to project from either side of said frame plate, whereby the applicator may be assembled for use either by a right-handed or a left-handed person.

2,534,692
CONVEYER
Kai Christian Sophus Aasted, Gentofte, Copenhagen, Denmark
Application November 2, 1946, Serial No. 707,486
In Denmark July 10, 1946
7 Claims. (Cl. 198—138)



1. A tray conveyor mechanism comprising two horizontally spaced pairs of vertically spaced sprockets, a pair of endless conveyor chains each supported at one end thereof by a vertically spaced pair of said sprockets, said chains each forming an upper and a lower horizontal run connected by a vertical run, a plurality of spaced material holding trays pivotally secured for free rotation between said chains, first means for maintaining said trays in a horizontal position associated with said upper and lower horizontal runs respectively, second means for maintaining said trays in horizontal position at the turns from the horizontal to the vertical and from the vertical to the horizontal runs respectively, and third means for maintaining in horizontal position said trays for said vertical run.

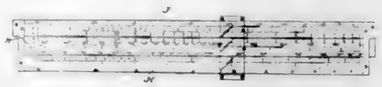
2,534,693
CATCH
Arthur R. Adams, Glendale, Calif., assignor to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application March 7, 1947, Serial No. 733,005
6 Claims. (Cl. 292—223)

1. A catch, comprising: a casing having a face plate containing a recess, a finger pull plate pivotally mounted adjacent one side of the recess for swinging movement about an edge margin thereof, said plate normally lying flush with the surface of the face plate and extending over a part of said recess, a pivotally mounted bolt, a member secured to said casing having a projecting portion serving as a pivot for said bolt and a projecting portion serving within the recess as a pivot for the pull plate, and a link connection between said pull plate and said bolt.

2,534,694
PROCESS FOR THE INVERSION OF SUCROSE
William A. Blann, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 23, 1946, Serial No. 698,859
5 Claims. (Cl. 127—41)

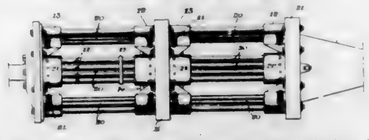
1. A process which comprises treating an aqueous solution containing sucrose and not more than 50 P. P. M. of anions calculated as acids having an equivalent weight of 50 and substantially no cations with a hydrogen zeolite at a temperature of about 40–75° C., the contact time of said solution with said zeolite being sufficient to invert at least a part of the sucrose.

2,534,695
SLIDE RULE
James R. Bland, Eastport, Md., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Original application October 17, 1944, Serial No. 559,020, now Patent No. 2,422,649, dated June 17, 1947. Divided and this application April 3, 1947, Serial No. 739,135
1 Claim. (Cl. 235—70)



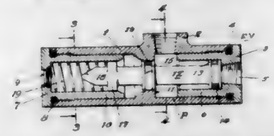
In a slide rule, a trigonometric scale having graduations designated on the right by a series of numbers ascending from left to right and on the left by a complementary series of numbers descending from left to right, the numbers associated with each graduation diverging upwardly with respect thereto.

2,534,696
STRANDING MACHINE
Carl O. Bruestle, Metuchen, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application June 25, 1949, Serial No. 101,446
5 Claims. (Cl. 57—59)



1. In a stranding machine of the tubular type, in combination, a plurality of discs spaced along an axis and externally supported for rotation about that axis, a reel supporting cradle mounted between each adjacent pair of discs, said cradles being mounted upon secondary discs fixed to said first mentioned discs and a plurality of groups of tubes extending between adjacent ones of said secondary discs and fixed thereto.

2,534,697
MOISTURE EJECTOR VALVE AND SYSTEM
Carl O. Bruestle, Rahway, N. J.
Application February 27, 1948, Serial No. 11,733
5 Claims. (Cl. 303—88)

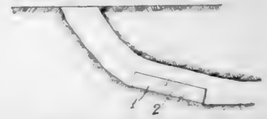


1. An ejector valve comprising a body assembly providing two spaced cylinders, the first exhausting to atmosphere and the other provided with a fluid pressure supply and exhaust connection, said body assembly having an internal annular formation providing an annular seat between said cylinders, a pair of spaced connected pistons, a spring normally holding said pistons so that one is on said seat and the other is at the end of the cylinder having said connection and means for supplying a pressure fluid to the space between said pistons, said pistons at said annular seat cooperating with said second cylinder to prevent the exhaust of pressure fluids through said exhaust port when said valve is actuated.

2,534,698
POLYMERIZATION OF OLEFINS IN FLUORINATED DILUENT
John D. Calfee, Manhasset, N. Y., and Robert M. Thomas, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 29, 1944, Serial No. 565,792
9 Claims. (Cl. 260—85.3)

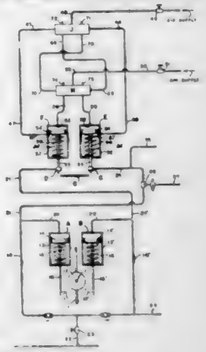
1. A polymerization process comprising the steps in combination of dispersing a mixture of isobutylene and a polyolefin having 4 to 14 carbon atoms per molecule, into a body of a fluorine substituted aliphatic hydrocarbon containing material without substantial solution therein, in the proportion of from one-half part to 10 parts of fluorine substituted aliphatic hydrocarbon per part of olefinic monomer; the said fluorine substituted aliphatic hydrocarbon having from one to five carbon atoms per molecule which is liquid at the polymerization temperature and polymerizing the dispersed mixture of isobutylene and polyolefin having four to fourteen carbon atoms per molecule at temperatures between −20° C. and −164° C. by the application thereto of a Friedel-Crafts catalyst.

2,534,699
ANIMAL EXTERMINATOR
Richard J. Courter, Jewell, Kans.
Application July 19, 1946, Serial No. 684,745
6 Claims. (Cl. 43—80)



1. In an animal exterminator, an elongated body semi-circular in cross section and being made from thin sheet material, a safety razor blade, and a reinforcing means for said razor blade, said razor blade and said reinforcing means being carried in the concave side of the body, said blade being disposed in a plane perpendicular to a line drawn tangent to the curved outer surface of said body, the blade extending through the body at its longitudinal and transverse center, and a portion of said reinforcing means being adapted to extend through the body, said reinforcing means having a lateral bend whereby said blade is retained in the said body.

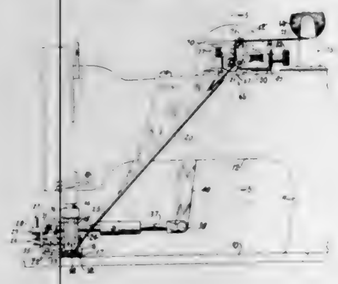
2,534,700
AUTOMATIC WEIGHT CONTROL DEVICE
Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application January 13, 1949, Serial No. 70,765
11 Claims. (Cl. 137—139)



1. A control mechanism adapted to alter the position of a movable control member comprising, in combination, a first prime mover connected to the control member for moving the control member in a first direction, a second prime mover connected to the control member for moving the control member in a second direction, a first control means adapted to control the flow of the type of energy upon which the first prime mover operates, a member operatively connecting the first control means with energy supplied to the first prime mover, a second control means adapted to control the flow of energy of the type upon which the second prime mover operates, a

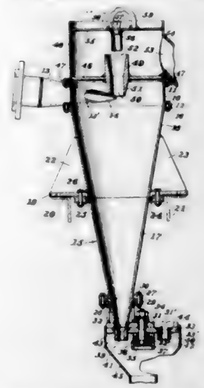
member operatively connecting the second control means with energy supplied to the second prime mover, power means arranged to give said first and second control means periodic motion, an activating member adapted to assume a neutral position out of contact with the first and second control means and movable from the neutral position to a first position adapted to activate the first control means during a portion only of each cycle of its periodic motion and movable from the neutral position to a second position adapted to activate the second control means during a portion only of its cycle of periodic motion.

2,534,701
SEWING MACHINE FOR ELASTIC SEAMS
Harry Diamond, New York, N. Y.
Application February 5, 1949, Serial No. 74,739
11 Claims. (Cl. 112—100)



1. In combination with a sewing machine having a main feeding mechanism and a presser-foot and a shaft mounted in an upper arm of said sewing machine and transverse with the needle-bar shaft, said needle-bar shaft having gear means mounted thereon and being intermeshed with gear means mounted on said transverse shaft for driving said shaft, said transverse shaft having further gear means operated thereby, said further gear means including an eccentric, a cross-thread laying hook carrier slidably mounted on said presser-foot in right-angular relation with the line of seam formation, said carrier having a horizontal extension above said work supporting base and terminating in a forked end portion, a lever having its upper end in engagement with said eccentric, the lower end of said lever being in engagement with said forked end portion, whereby said cross-thread laying hook is constrained to reciprocate solely due to the motion of said needle-bar shaft, said forked junction permitting said reciprocating motions of said cross-thread laying hook during all up and down positions of said presser-foot under operating conditions, auxiliary feeding means on said upper arm for positively feeding elastic thread to said main feeding mechanism comprising a pair of cooperating tapering feed rollers, yielding means for urging one of said rollers toward the other roller, means connected to said needle-bar shaft for rotating one of said rollers in feeding direction at a rate of speed equal to the rate of speed of said main feeding mechanism, an elastic thread passing between said rollers and means for shifting said elastic thread axially of said rollers for adjusting the rate of speed of said thread to equal the predetermined speed of said main feeding mechanism for preventing stretching of said elastic thread during seam formation.

2,534,702
CYCLONE SEPARATOR
Maximiliaan G. Driessen, Brunssum, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands
Application August 14, 1946, Serial No. 690,565
In Great Britain July 23, 1945
2 Claims. (Cl. 183—83)



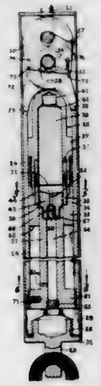
1. In a cyclone, a vortex chamber including a relatively short cylindrical chamber portion and a relatively long tapered chambered portion, said portions being coaxial, the mean angle of taper of said tapered chamber portion being between 15° and 25°, said tapered chamber portion being circular in transverse section and including a circular and central apex outlet, a tangential feed pipe debouching into said cylindrical chamber portion, the inlet mount of the feed pipe being flush with the inner surface of said cylindrical chamber portion, an end wall for said cylindrical chamber portion having a central outlet opening, a tubular member fitted in the outlet opening and extending from both sides of said end wall, but having its portion which extends into said cylindrical chamber portion terminate adjacent the plane at which said tapered chamber portion joins said cylindrical chamber portion, the portion of said tubular member which lies within said cylindrical chamber portion having a bore of uniform diameter and of substantially the same cross-sectional area as the inlet mouth of said tangential feed pipe, and the exterior surface of said portion flaring outwardly from its terminal end to said end wall of said cylindrical chamber portion, the portion of said tubular member which lies beyond said end wall having a bore which flares outwardly away from said end wall.

2,534,703
DRY RESINATE COMPOSITION
Earl Stanley Fenelon, Jr., Elroy, Wis., and Edwin C. Howard, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1947, Serial No. 780,756
8 Claims. (Cl. 260—27)

1. A dry resinate composition comprising dry, saponified rosin and a petroleum resin containing less than 5% asphaltenes, the composition being characterized by being dispersible in water to form a dispersion free from asphaltic agglomerates, the petroleum resin comprising up to two-thirds of the total solids of the composition, said petroleum resin being isolated from petroleum

distillation residues and being the resin which is obtained therefrom through the addition of propane in an amount to precipitate the asphalt content of the petroleum distillation residue and subsequent addition, to the substantially asphalt-free petroleum residue, of a further quantity of propane to precipitate the petroleum resin therefrom.

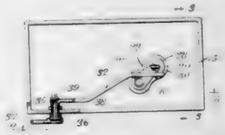
2,534,704
RELEASE APPARATUS FOR LOAD SUPPORTS
Leonard P. Frieder, Great Neck, and Walter S. Finken, Brooklyn, N. Y.; said Finken assignor to said Frieder
Application June 28, 1947, Serial No. 757,798
15 Claims. (Cl. 294—83)



1. A device of the character described comprising means at one end to which a load may be attached and means at the other end manually operable to connect the device to a suspending instrumentality, said means being relatively movable when said instrumentality assumes support of the load, a fluid chamber on the interior of the device, a diaphragm sealing said chamber, a die for cutting said diaphragm, a carrier for said die actuated by one of the aforesaid relatively movable means to cut the diaphragm to unseal the fluid chamber, said die having a vent through which the fluid escapes during further movement of the die and its carrier, and means controlled by said die and carrier for conditioning the manually connected means to permit disconnection of the load from the suspending instrumentality, said relatively movable means respectively including structures at opposite ends of the device for connection to the load and the supply instrumentality, and said die carrier including means which is disposed externally of the chamber and extends around the same for operative connection with that one of the movable means which actuates the die.

2,534,705
FLUSH TANK LEVER GUIDE
Samuel Gertz, Jamaica, N. Y.
Application July 7, 1945, Serial No. 603,694
10 Claims. (Cl. 4—67)

2. Apparatus for controlling the discharge of water from a flush tank, said apparatus comprising a valve commanding an outlet at the bottom of the tank, a stem extending upward from the valve, a fulcrum at one side of the tank, an operating lever supported by the fulcrum and movable about a fulcrum axis extending substantially normal to the length of the tank, said operating lever extending from the fulcrum lengthwise of the tank and across a portion of the width of the tank away from the fulcrum side of the tank, an actuator for operating the lever, a connection between the valve stem and the end of the lever remote from the fulcrum, and an upwardly extending guide surface independent of the valve stem and disposed at a fixed location in the tank, which location is such that when the operating



lever is in the normal position which it occupies when the valve is closed, the guide surface is between at least a portion of the operating lever and the side of the tank on which the fulcrum is located, said guide surface being in position to be contacted by the end portion of the lever remote from the actuator and adjacent the connection of the lever with the valve stem so that the lever is held in a definite relation with respect to the valve stem.

2,534,706
DENTAL MIRROR WITH REPLACEABLE REFLECTOR
Lester L. Gittelson, New York, N. Y.
Application September 1, 1949, Serial No. 113,577
1 Claim. (Cl. 88—104)

A dental mirror comprising a handle, a smooth surfaced conically shaped socket at one end of the handle, a reflector, a resilient metal retaining ring having an annular internal groove surrounding and supporting the reflector, an externally smooth surfaced conically shaped split shank formed from the ends of said retaining ring, said ends being internally engageable with each other and extending radially from said retaining ring, said ring being spreadable at said shank when removed from said socket and permitting, when spread, replacement of said reflector; said shank being tapered at an angle equal to that of the socket, and said shank extending into the socket and frictionally gripped therein and being rotatable therein so as to be gripped with equal and maximum firmness at any angle to which it is rotated with respect to said handle.

2,534,707
PREPARATION OF PHOTOGRAPHIC EMULSIONS
Charles F. Glick, New Brunswick, N. J., and Postell M. Nicholes, Rochester, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 27, 1946, Serial No. 712,732
9 Claims. (Cl. 95—7)

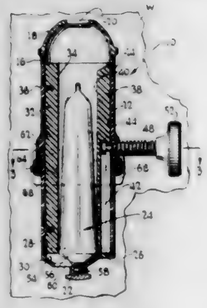
1. The process which comprises treating an aqueous solution of a water-soluble to hydro-

philic synthetic hydroxyl polymer silver halide emulsion, said polymer containing a plurality of recurring intralinear

$$-CH_2-\underset{|}{C}HOH-$$

groups, with a mixture of boric acid ester of diethylene glycol and sodium sulfate, said ester and sodium sulfate being present in insufficient quantity alone but in sufficient quantity together to effect a material gelling of the hydroxyl polymer, adjusting the pH of the solution to more than 7, extruding the resulting gel into an acetone bath and washing the resulting shreds with water.

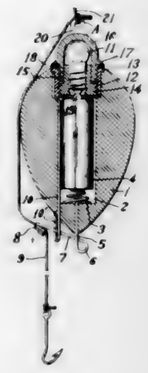
2,534,708
DEVICE FOR DISPENSING MATERIAL CONTAINED IN COLLAPSIBLE RECEPTACLES
Jack Goodheart, Brooklyn, N. Y., assignor of one-third to Abram Shlefstein, New York, and one-third to Joe Ancona, Brooklyn, N. Y.
Application November 5, 1947, Serial No. 784,240
2 Claims. (Cl. 222—103)



1. A device for dispensing material from a collapsible receptacle having a dispensing tip, said device comprising a tube, removable means to close the top of said tube, means to close the bottom of said tube, said last named means having an opening therethrough to pass the tip of the collapsible receptacle, a vertical stationary surface within said tube, a member having a surface approximately parallel to said stationary surface, said member having a vertical T-shaped slot extending upwardly from the bottom thereof, a horizontal screw, a tapped opening in the tube for threadedly receiving said screw, the tip of said screw within the tube having a T-shaped head which is slidably received in said slot whereby turning the screw will shift the member toward or away from the stationary surface and whereby said member may be lifted off the screw and out of the tube for cleaning when the top closing means is removed.

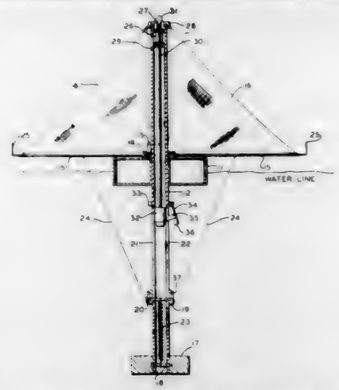
2,534,709
ELECTRIC FISHING LINE FLOAT
William S. Goertzen, Newton, Kans.
Application June 16, 1947, Serial No. 754,883
1 Claim. (Cl. 43—17.5)

In a fishing line float, a body of floating consistency, said body having a vertical bore extending inwardly a substantial distance from its upper end and a reduced vertical bore of the first said bore extending downwardly and terminating at a point a substantial distance from the lower extremity of the body, a spiral spring positioned in the bottom of said second bore, said spring having a stem extending downwardly through the float body and outwardly therefrom and having a resilient arm positioned substantially horizontally to serve as one pole of an electric circuit switch, a battery positioned in the reduced bore of the body and having one of its ends resting on the spring, an electric conductor extending along both of said bores, and extending downwardly through the float body to serve as the other side of said electric circuit switch and being adapted to be contacted by the arm to close the circuit, an internally threaded annular sleeve positioned in the first said bore of the body and contacting said electric conductor, an annular socket positioned in said sleeve and being externally threaded a spaced distance upward from its lower end to engage in the threads of said annular sleeve, said annular socket being internally threaded, a light bulb threadedly engaging in the internal bore of said socket, the said light bulb connecting the other end of the battery, a transparent bell-shaped dome to close the upper end of the first said bore of the body, said dome having a nipple threaded externally to engage in the upper end portion of said annular sleeve, and said nipple fitting externally over an upper end portion of said annular socket, said dome having an annular flange in close relation to the upper end of said annular sleeve, and a fabric washer compressed by said flange to seal the float.

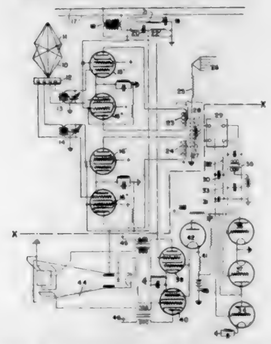


2,534,710
BUOY SUPPORTED COLLAPSIBLE RADAR REFLECTOR
Serge E. Golian, Washington, D. C., and Robert M. Whitmer, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 8, 1946, Serial No. 668,032
26 Claims. (Cl. 9—8)

1. A reflector for reflecting electromagnetic radiation comprising a mast, a plurality of support arms pivotally mounted on said mast, said arms presenting a multiplicity of outwardly projecting apices equidistant from a common center and equally spaced in a common plane substantially perpendicular to the axis of said mast when in an erected position, and a plurality of reflector members mounted on said arms and said mast presenting a cluster of trihedral reflector units when in an erected position.

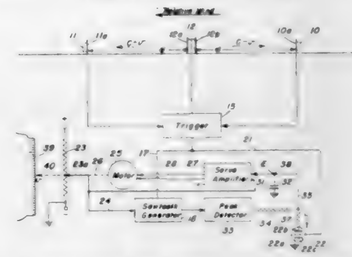


2,534,711
RADIO DIRECTION FINDER
Carl-Erik Granqvist, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, Sweden, a corporation of Sweden
Application January 22, 1945, Serial No. 573,916
In Sweden January 4, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 4, 1964
5 Claims. (Cl. 343—121)



1. A radio direction finding system, comprising a source of alternating voltage, phase splitting means to derive from said alternating voltage a pair of alternating voltages of the same frequency but displaced in phase by 90°, a cathode ray oscilloscope having means producing a cathode ray of substantially uniform intensity and having deflecting electrodes, circuit means to supply said derived voltages to said deflecting electrodes in a sense to cause the cathode ray to trace a circular pattern, a loop antenna, means for deriving a second alternating voltage of the frequency received by the loop antenna, means for electrically combining said first and said second alternating voltages so as to form pulses of peaked wave form, and means for supplying said peaked pulses to control electrodes of said oscilloscope so as to produce a radial deflection in said circular pattern at a point corresponding to the input direction of the radio wave to said loop antenna.

2,534,712
APPARATUS FOR MEASURING AIR SPEED
John W. Gray, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 30, 1945, Serial No. 631,958
8 Claims. (Cl. 73—194)



1. Apparatus for determining airspeed comprising, an up-wind sonic receiver, a down-wind sonic receiver, a sonic pulse transmitter disposed intermediate said receivers, a wave generator, means tripping on said generator each time that a sonic pulse reaches one of said receivers and then off when said pulse reaches the other receiver, means effecting emission of a new pulse from said transmitter each time a pulse reaches one of said receivers, a condenser, connections between said generator and condenser, a discharge path for said condenser, means rendering said path nonconductive when said generator is on and conductive when said generator is off, and means responsive to a change in the average voltage of said condenser effected by a change in airspeed for modifying the wave produced by said generator in order to maintain said apparatus in a state of equilibrium.

2,534,713
ASPHALT WETTING AGENTS
Elinor M. Hankins, Keyport, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 31, 1948, Serial No. 68,751
17 Claims. (Cl. 106—273)

1. An improved bituminous bonding composition comprising a mixture of asphalt and at least one anti-stripping addition agent, present in a concentration from about .25 to 2.0% selected from the group consisting of a condensation product of a polyalkylene polyamine with a halogen derivative of a polycyclopentadiene and the salt products derived by treating said condensation products with acid, and mixtures thereof.

2,534,714
WOOD CONDITIONING PROCESS
William P. Hoffman, Buffalo, N. Y.
No Drawing. Application April 21, 1947, Serial No. 742,973
3 Claims. (Cl. 34—5)

1. A wood drying process which includes the steps of placing a predetermined quantity of cut wood in a closed compartment, refrigerating the compartment to a temperature range of substantially 10° F. to −5° F. thus quick freezing the sap and moisture contained in the cellular structure of said wood, continuing said freezing temperature for substantially 12 hours to solidly freeze said sap and moisture to thereby rupture

the cellular structure of the wood, removing the wood from the compartment and placing it in another compartment and substantially immediately thereafter applying heat to the second compartment for a sufficient time to melt the ice formed in the wood and to evaporate the liquid formed as the ice melts, and continuing the heating operation until the wood is kiln dried.

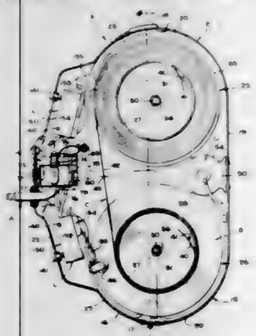
2,534,715

PHOTOELECTRIC WEB CONTROLLED SOUND REPRODUCER

William E. Horton, Highland Park, Calif., assignor to Lovans Enterprises, Inc., Las Vegas, Nev., a corporation of Nevada

Application March 14, 1947, Serial No. 734,627

21 Claims. (Cl. 179—100.3)



1. A sound reproducer of the character described including, a case, a single pick-up unit in the case, exciting means for said unit directing a plurality of spaced parallel beams of light to the unit each of which has a focal point between the unit and said means, means controlling said means to cast but one beam at a time, a pair of spaced spools mounted in the case, and a web carrying a plurality of sound tracks and wound on the spools with a straight connecting portion wholly unsupported between the spools with a point maintained in substantial register with said focal point of the light beam as the web is wound back and forth between the spools, each beam being directed to fall upon a sound track.

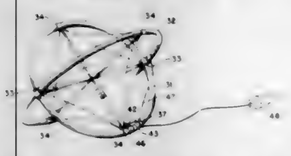
2,534,716

INFLATABLE RADAR REFLECTOR BUOY

Emmett L. Hudspeth, Cambridge, and John P. Nash, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application October 8, 1945, Serial No. 620,986

13 Claims. (Cl. 9—8)



1. A self-positioning maritime buoy comprising a group of similar triangular reflecting surfaces connected together to form corner reflecting units with their inner apices symmetrically positioned with respect to a common center, a pair of inflatable toroids, securing means on said toroids for fastening the outer apices of said reflecting surfaces, and means operable upon partial submergence of the reflector to inflate said toroids.

2,534,717

LIQUID COATING COMPOSITIONS

Edward L. Kropa, Old Greenwich, and George W. Barlow, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 24, 1948, Serial No. 40,629

14 Claims. (Cl. 260—17)

1. A flat liquid coating composition including (1) a liquid comprising a film-forming base and (2) a finely divided acrylonitrile polymerization product containing at least 85% by weight thereof of combined acrylonitrile, said film-forming base being different from said acrylonitrile polymerization product of (2), and the said acrylonitrile polymerization product being substantially insoluble in the said flat liquid coating composition.

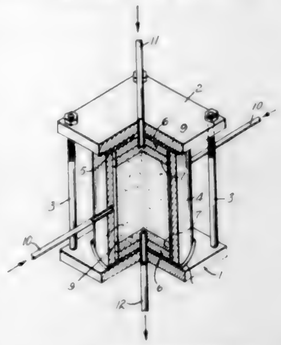
2,534,718

REVERSIBLE DISPLACEMENT CELL

William J. Leas and Walter Dean Rose, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 14, 1947, Serial No. 754,750

2 Claims. (Cl. 73—38)



1. A reversible fluid displacement cell for a rock sample comprising a pair of metal plates, means for drawing said plates toward each other in clamping position, a metal cylinder adapted to be clamped between said plates, impermeable sealing means disposed between each end of the cylinder and its adjacent plate, semi-permeable membranes arranged at either end of the inside of said cylinder in a position to hold between them said rock sample, fluid conduit means communicating directly with the interior of said cylinder in a region between said membranes, and fluid conduit means communicating with the interior of said cell on the exterior side of each of said membranes.

2,534,719

SCREW HOLDING SCREW DRIVER

Raymond J. Lohr, Erie, Pa.

Application September 13, 1946, Serial No. 696,867

3 Claims. (Cl. 145—52)

1. A combination screw driver and locking attachment comprising a shank having opposite

sides thereof flattened, a stop on said shank, similar complementary pivoted members slidable on said shank, each member having an outwardly extending circular portion and an outwardly circular grooved portion for pivotable interengagement on one end thereof and offset jaw portion on the opposite end thereof, flat, arcuate shaped

springs engaging the opposite flattened surfaces of said shank and the inner side of said pivoted members and held against longitudinal movement therein by the offset jaw portion of said pivoted members, and a locking member movable over the outer surface of said pivoted members to close the jaw portions thereof.

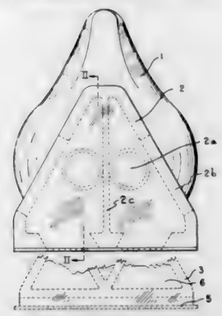
2,534,720

RESPIRATOR

Winfield W. Loose, Washington, D. C., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania

Application November 29, 1949, Serial No. 129,913

11 Claims. (Cl. 128—146)



1. A respirator comprising a face piece of substantially triangular and cup-like configuration shaped to fit over the nose, mouth and chin of the wearer and having an air opening, a filter box of substantially triangular outline with its apex adjacent the nose engaging portion of said face piece and its sides substantially parallel to but disposed slightly below those of said face piece, thereby minimizing obstruction to the wearer's view, particularly in a downward direction, and filter supporting means for readily inserting or withdrawing a filter from said box.

2,534,721

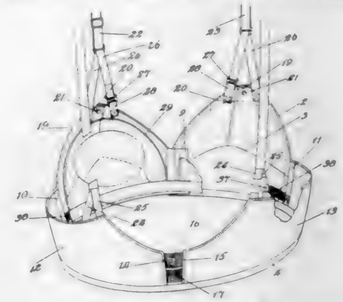
BRASSIÈRE

Lillian Marsden Marshall, Scarsdale, N. Y.

Application June 18, 1947, Serial No. 755,425

7 Claims. (Cl. 128—280)

1. In a brassière construction, a pair of outer breast covering portions detachably secured together, a fabric band to which said outer portions are attached at their sides, said fabric band being adapted to extend around the body of the wearer, and inner removable breast supporting members joined together at their lower edges by a fabric band, said band being detachable and resiliently connected to the outer ends of said outer breast covering portions by an elastic member secured to the outer breast covering portions and detachably secured to the outer ends of the inner removable breast supporting members and resiliently held in position over the breasts and under the outer breast covering portions by said resilient connection.



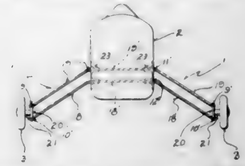
2,534,722

WHEEL SUSPENSION

Thomas W. Meiklejohn, Jr., Fond du Lac, and Sylvester J. Wittman, Oshkosh, Wis.

Application January 10, 1947, Serial No. 721,356

5 Claims. (Cl. 244—104)



5. A carriage for a vehicle comprising: a pair of supporting members of substantially equal length, one of said members being longitudinally flexible; means securing each of said members to a vehicle in spaced apart relationship to one another with said members extending outwardly and downwardly from their points of securement in superimposed normally parallel relation to one another; a tie member secured to the outer ends of said members and holding said outer ends spaced apart a distance such as to at all times hold the members substantially parallel to one another, the points of securement of the tie member to the outer ends of said supporting members being on a line substantially parallel to a line through the points of securement of said members to the vehicle; and means carried at the outer ends of said supporting members for carrying running gear.

2,534,723

PIPE COUPLING

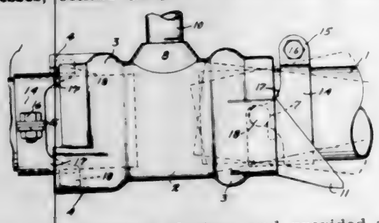
Derald E. Meese, Spokane, Wash., assignor of twenty-five per cent to Joseph W. Duprie, twenty-five per cent to Elmer H. Gendron, and twenty-five per cent to Jerome J. Elben, all of Spokane, Wash.

Application January 13, 1949, Serial No. 70,711

1 Claim. (Cl. 285—172)

A pipe coupling comprising a cylindrical body open at opposite ends, and portions of the body

being formed internally with circumferentially extending recesses, portions of the body between the recesses and its ends being formed with bayonet slots leading from the said ends of the body and extending circumferentially of the body, elastic sealing rings in the body seated in said recesses, collars adapted to be tightly secured



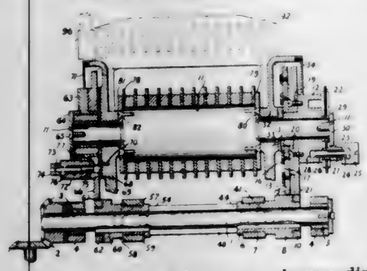
about end portions of pipes and provided with arms extending into the body and carrying side pins engaging in the bayonet slots and holding pipes against outward movement when thrust into the body and through the sealing rings, and latches carried by said collars and movable into and out of position to fit into entrance ends of the bayonet slots.

2,534,724

CONTROLLER

Charles F. Miller, Philadelphia, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York

Application February 28, 1948, Serial No. 11,969
5 Claims. (Cl. 66—155)



1. In a controller, at least one change-directing pattern, a master control mechanism having a pattern to direct the advances of said change-directing pattern, a power device to advance said master control pattern and said change-directing pattern, constantly intermeshed toothed gearing between said power device and said master control pattern through which the latter is driven from the former, and constantly intermeshed toothed gearing between said power device and said change-directing pattern through which the change-directing pattern is driven by the power device.

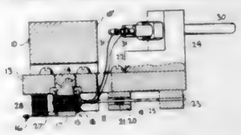
2,534,725

ELECTRODYNAMIC PICKUP HEARING U-SHAPED COIL HOLDER

Stewart M. Miller, Westfield, N. J.

Application July 15, 1948, Serial No. 38,763
8 Claims. (Cl. 179—100.41)

1. In an electromagnetic sound translating device having a pair of spaced pole pieces and an intermediate pole piece defining two magnetic flux gaps on either side of said intermediate pole piece and an oscillatory coil resiliently mounted in the magnetic flux path of both of said gaps; a U-shaped coil holder disposed over the lower end of said intermediate pole piece and having a coil wire upon the outer sides thereof so as to encircle the lower end of said intermediate pole piece, a torsion element supporting said coil



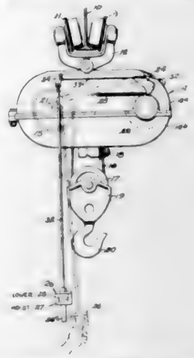
holder, said torsion element having its free end anchored at a point remote from said flux gaps, a resilient member fixed to said coil holder, and a stylus carried at the free end of said resilient member, whereby to permit vertical movement of said stylus while transmitting lateral movement to said oscillatory coil.

2,534,726

POWER-OPERATED TWO-SPEED HOIST

George E. Moore, Muskegon Heights, Mich., assignor to Manning, Maxwell & Moore, Inc., Muskegon Heights, Mich., a corporation of New Jersey

Application December 28, 1944, Serial No. 570,046
9 Claims. (Cl. 254—168)



4. The combination with a multi-speed type electric motor driven hoist embodying a change-speed device shiftable between alternatively available high and low speed positions, spring means yieldably biasing said device to its low speed position, a start-stop and reversing switch for the hoist motor mounted in a casing, an elongated member suspending said casing from the hoist, and means operable in response to a downward pull exerted on said member for shifting said speed control device from low to high speed position against the bias of said spring means.

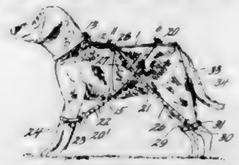
2,534,727

DOG TRAINING HARNESS

John Ralph Moyle, Butte, Mont.

Application August 20, 1949, Serial No. 111,390
2 Claims. (Cl. 54—71)

2. In a training harness for a dog, a back strap, a strap extending from the front end of the back strap and adapted to be secured to the dog's collar, a belly band secured to the back strap to encircle the body of the dog, rings secured to the back strap, one near the front end of the back strap and one near the rear end; control straps having snap fasteners on their ends and secured in the said rings, there being a pair of control straps on each side of the back strap, the straps of each respective pair crossing each other; leg straps, the free ends of the con-



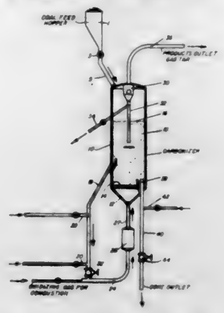
trol straps being hooked to the leg straps, to thus hobble the dog, and the control straps being quickly removable and adjustable to thus regulate the dog's gait.

2,534,728

CARBONIZATION OF COAL IN A FLUIDIZED BED

Karl J. Nelson, Cranford, and Homer Z. Martin, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 28, 1946, Serial No. 700,026
3 Claims. (Cl. 202—9)



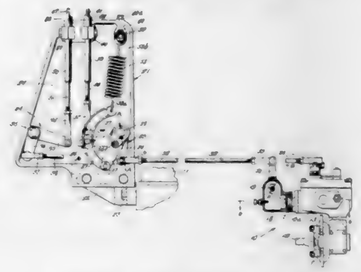
1. A method for carbonizing coal which comprises maintaining a dense, turbulent, fluidized bed of finely divided solids at carbonizing conditions including a temperature suitable for low temperature carbonization of the order of 800°–900° F. in a carbonization zone, feeding finely divided coal to said bed, passing a gas upwardly through said bed at a rate sufficient to maintain it in a fluidized condition while forming a well defined upper level, withdrawing finely divided product coke downwardly from said bed, suspending said withdrawn product coke in an oxidizing gas rich in free oxygen, passing the suspension formed in light phase upflow fashion upwardly through a combustion zone at a temperature of about 900°–1600° F. but higher than said carbonization temperature, completely reacting in said combustion zone all the oxygen available in said combustion zone while leaving unburned carbon on said coke, thereby generating sufficient heat by combustion to support said carbonization, passing gases and entrained solids overhead from said combustion zone substantially at the temperature of said combustion zone directly and upwardly into a lower portion of said bed, supplying all the heat required for the carbonization in the form of the sensible heat of said gases and entrained solids passed overhead from said combustion zone, withdrawing volatile carbonization products overhead from said level and withdrawing a separate stream of product coke downwardly from said bed.

2,534,729

CONTROL DEVICE FOR PRIME MOVERS

Erwin J. Panish, Bridgeport, Conn.

Application April 3, 1946, Serial No. 659,205
23 Claims. (Cl. 192—.096)



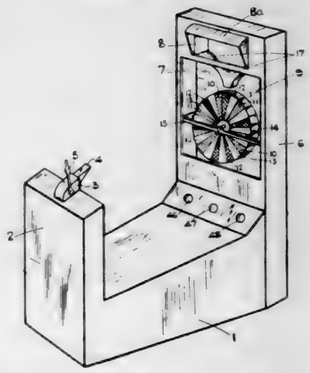
1. In a prime mover having a speed-control member requiring a force progressively increasing to move the same between two settings, actuating means for moving said member to a desired setting; a yieldable friction device for holding said actuating means in different adjusted positions; and means for automatically applying a force to said actuating means to substantially balance the said increasing force for positions of the member located between the said settings.

2,534,730

AMUSEMENT MACHINE

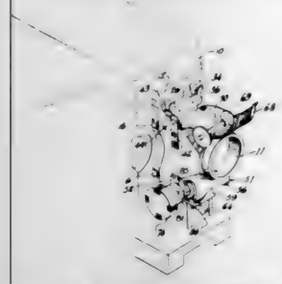
Francis Joseph Peacock, Olton, Birmingham, England

Application July 22, 1947, Serial No. 762,573
In Great Britain July 27, 1946
8 Claims. (Cl. 273—101)



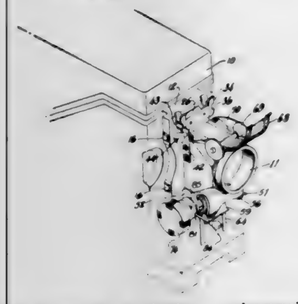
1. An amusement device comprising a drum journalled at its center about a horizontal axis and divided internally thereof into a plurality of radial compartments opening around the drum periphery, a motor for rotating the drum, a missile-receiving chute arranged above the drum extending into a throat-shaped delivery outlet the latter being disposed vertically above and adjacent the periphery of the drum, at least one annular series of cams on one side of said drum, rollers held in contact with said cam carrying drum and shutters actuated by said rollers for periodically restricting said throat-shaped delivery outlet through which a missile may pass towards said drum.

2,534,731
PROJECTOR STRIP FILM ADVANCING AND FRAMING MECHANISM
Florindo J. Perillo, Jackson Heights, N. Y., assignor to Viewlex, Inc., Queens County, N. Y., a corporation of New York
Application November 1, 1947, Serial No. 783,525
1 Claim. (Cl. 88—28)



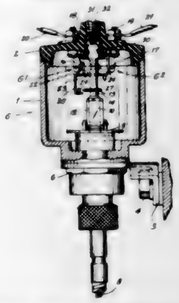
In a projector for filmstrips, film advancing and framing mechanism comprising a support having spaced apart legs, said legs having aligned openings therein, a hollow externally threaded sleeve having an enlarged head at one end rotatably positioned in one of said openings with the said head on the outside of the leg, a nut threaded on said sleeve, friction members including a resilient member positioned on said sleeve and bearing against the leg in which said sleeve is mounted and adapted to be compressed between said head and said nut, a shaft extending through said sleeve and the other of said openings and rotatable therein, a sprocket secured to said shaft between said legs, a knob on the outer end of said shaft having a face in abutting relation to the face of said head, the face of said head adjacent said knob having spaced notches, said knob having a recess, a spring pressed detent in said recess adapted to engage said notches, and a lever secured to said sleeve for rotating it, whereby said sleeve, said knob and said sprocket can be moved as a unit to frame a picture.

2,534,732
FILM GUIDE FOR STRIPFILM PROJECTORS
Florindo J. Perillo, Jackson Heights, N. Y., assignor to Viewlex, Inc., Queens County, N. Y., a corporation of New York
Application April 26, 1949, Serial No. 89,630
5 Claims. (Cl. 88—28)



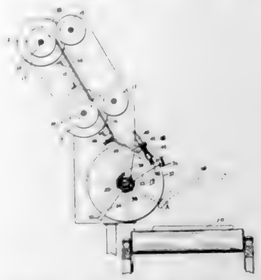
2. In a filmstrip projector, a channel member having side flanges, a pair of transparent film-guiding plates, holders for said plates having at their top ends pairs of laterally extending ears adapted to rest on the ends of said flanges to removably suspend said plates vertically therebetween, the ends of said flanges having upwardly projecting centrally located tongues adapted to extend between the ears of the holders, whereby shifting of a holder from one side of said member to the other is prevented.

2,534,733
SPEED RESPONSIVE DEVICE
Glenn T. Randol, Detroit, Mich., assignor of one-half to Elizabeth Leighton Randol, Mountain Lake Park, Md.
Application January 5, 1946, Serial No. 639,184
18 Claims. (Cl. 74—25)



2. In a speed responsive device, a rotating shaft, a member to be controlled, cam means rotatable by the shaft and slidable on an axis coinciding with that of the shaft, said cam means having a portion eccentric to the shaft for actuating said member toward two positions by the turning movement of the shaft, and means responsive to the speed of rotation of the shaft for sliding the cam means to cause the controlled member to be directly actuated by the turning of the eccentric portion of the cam means as it is rotated by the shaft.

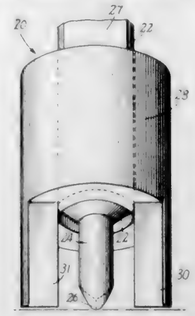
2,534,734
METHOD OF MAKING BREAD
Herbert C. Rhodes, Portland, Oreg., assignor to The Standard Stoker Company, Inc., a corporation of Delaware
Application February 10, 1945, Serial No. 577,223
5 Claims. (Cl. 107—54)



1. A method of preparing dough for baking which consists in moving divided masses of dough in spaced relation in a continuous path, compressing each mass of dough to form an elongated strip while moving the strip at a chosen speed in a portion of said path, engaging said strip

along its length from leading end to trailing end by moving said strip onto a surface in another portion of said path moving at a speed slower than said chosen speed to progressively shorten the length of said strip and then inverting the shortened strip.

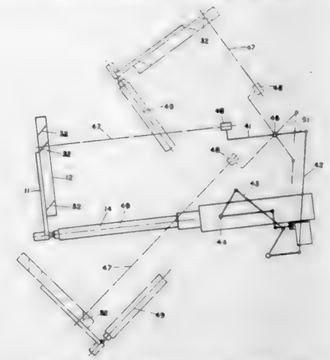
2,534,735
GUARDED STYLUS
Frederick W. Roberts and Simon Yerkovich, Fairfield, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application January 19, 1945, Serial No. 573,580
2 Claims. (Cl. 274—38)



2. A stylus including: a stylus shank, a stylus tip having a point and tip portions adapted to lie within a sound groove, and a stylus tip guard comprising a collar carried by said shank and including a foot extending parallel to the axis of the stylus and spaced beside but out of contact with the stylus tip; said stylus being of a type adapted to a predetermined orientation with respect to a translating head in which it operates whereby one face of the stylus tip will define an approach surface with respect to the recording medium and the opposite face of the stylus tip will define a trailing surface with respect to the recording medium, the foot of said tip guard being oriented to one side of the stylus tip where it is not directly in front of the approach surface nor directly behind the trailing surface of the stylus tip, said foot defining a terminal surface portion, said tip portions and said terminal surface portion being fixed relative to each other, the point on said stylus locating a plane parallel to a plane passing through said terminal surface portion transversely with respect to the stylus axis, and the distance between said planes being not greater than a few thousandths of an inch.

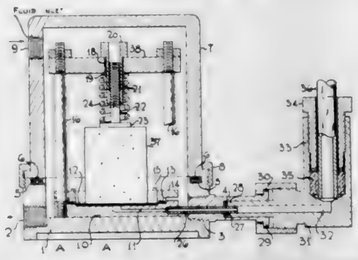
2,534,736
GAUGING APPARATUS FOR TESTING PARALLELISM
Alfred German Rose, Gainsborough, and Kenneth Howard Nicholls, Freshford, England
Application July 7, 1945, Serial No. 603,608
In Great Britain April 3, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 3, 1964
2 Claims. (Cl. 33—46)

1. Apparatus for gauging the parallelism of given longitudinal axes in two members arranged for pivotal movement about parallel axes and connected by adjustable parallel motion linkage so that said longitudinal axes remain in parallel relationship, comprising a support adapted for attachment to the first pivoted member in a definite position, at least two gauging sights in the form of transparent reflectors arranged on the support with their lines of sight lying parallel to each other and to the given longitudinal axis of the first pivoted member at definite positions each corresponding to the normal distance



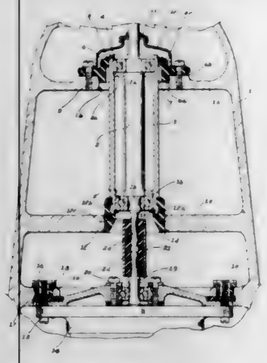
between the given longitudinal axes of the two pivoted members when in a predetermined position, and a single lens tube arranged to throw an image of a graticule on to the several reflectors simultaneously, the several reflectors being arranged in alignment with the axis of the lens tube and inclined at the same angle thereto.

2,534,737
CORE ANALYSIS AND APPARATUS THEREFOR
Walter Dean Rose, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 14, 1947, Serial No. 754,736
4 Claims. (Cl. 73—38)



1. An apparatus for the study of the distribution of immiscible fluids in a subterranean reservoir which comprises a metal cell capable of withstanding the pressure in said reservoir, a semi-permeable membrane arranged in said cell, means for sealing off the under side of said membrane from direct fluid contact with the interior of said cell while exposing the upper surface of said membrane to direct fluid contact with the interior of said cell, means for maintaining a fluid pressure head against the under side of said membrane, means for securing at least one rock sample from said reservoir against the upper side of said membrane in capillary contact therewith, means for introducing a displacing fluid into the interior of said cell and means for measuring the fluid head against the under side of said membrane.

2,534,738
MOUNT FOR ROTATING PARTS
Walter A. Scott, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application June 18, 1948, Serial No. 33,858
4 Claims. (Cl. 308—143)



1. In combination with a spindle for a centrifugal bowl, or the like, and a frame in which the spindle is rotatable, a tube surrounding the spindle, upper and lower bearings in the tube for supporting the spindle radially therein while allowing axial movement of the spindle in the tube, upper and lower rubber-like supports closely surrounding the tube and secured to the frame, the tube being movable radially in the frame by reason of the resiliency of the supports, and a driving element rotatable in the frame below the lower support and connected to the spindle to hold the same axially in the tube, the tube having an outwardly extending flange overlying part of the upper support to hold the tube axially thereon.

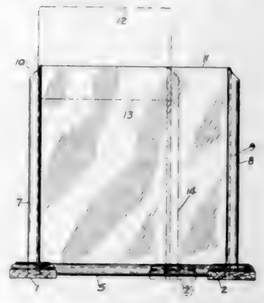
2,534,739
PIPE HOOK
Alexander Silberman, Upper Providence Township, Delaware County, Pa., assignor to Penn Supply and Metal Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application December 17, 1947, Serial No. 792,154
1 Claim. (Cl. 248—48.2)

A conductor pipe hook comprising a unitary length of channel having a band portion at one end with the flanges of the channel extending therealong on the interior thereof, a driving portion at the other end with the flanges of the channel extending therealong, said driving portion having a tapered terminal end portion with a blunt point and a longitudinally extending channel closed at the end adjacent the terminus with the flanges in flattened relation to the web, and a connecting portion between said band portion and said driving portion, said connecting portion having the flanges of the channel extending along the interior thereof, and said band portion having a plurality of spaced openings through the web between the flanges for the reception of fasteners for engagement with the conductor pipe.

2,534,740
GLOVE TURNER
Stanley Suftko, Chicago, Ill.
Application January 22, 1945, Serial No. 573,837
6 Claims. (Cl. 223—40)

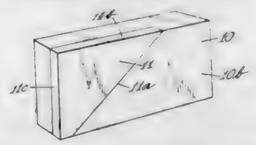
2. In a glove turner, a support, a pedestal therebeneath, a foot treadle carried by said pedestal, a turning tube carried by said support, a stop collar within said turning tube resiliently supported at the top end thereof, a second tube associated with said support, support means for said second tube adjustably connecting same to said pedestal, said support means including an expansion coil spring and two blocks within said tube abutted by said spring; a plunger at one end of said second tube and having a reduced free end disposed in line and normally in disengaged relation with said turning tube and stop collar, and operative connection between said second tube and foot treadle.

2,534,741
UNIVERSAL-TYPE PICTURE FRAME
Joseph W. Swenson, Summit, N. J.
Application February 1, 1946, Serial No. 644,723
4 Claims. (Cl. 40—155)



1. A universal type of picture frame including only a pair of similar base supports of non-metallic material, each base having a hole at right angles to the plane of the base, with a hole in one edge only of the base at right angles to the first hole and stopping at this hole and a grooved frame member of non-metallic material that can be easily and quickly cut to a desired length and positioned in the edge holes of the two bases while the first mentioned holes each has an upright grooved member positioned therein to form an open end type of frame.

2,534,742
BOX AND SUPPORT
Marcus M. Tierney, St. Paul, Minn.
Application November 12, 1946, Serial No. 709,305
2 Claims. (Cl. 248—311)



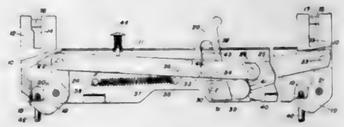
1. A container of substantially parallelopiped form having its larger opposite sides of rectangular form and made of sheet material, the same being adapted to contain sheets of soft paper, said container having an opening in one of said sides of rectangular form for removal of said sheets, said container having a separate layer of sheet material partially covering the other of said rectangular sides, the same having an edge extending from a point at one side thereof spaced a distance from one end of said container to a point on the opposite side spaced a much lesser distance from said end so that said edge extends at an angle to the long edges of said other side, said layer having portions secured to the adjacent side and end of said container, the portion of said layer overlying said other rectangular side being separate from said other rectangular side whereby a pocket is formed between said rectangular side and said layer, said pocket being adapted to receive a portion of a rigid rectangular member overlying said rectangular side whereby said container may be supported.

2,534,743
SAND MOLD COMPOSITION
Shirley M. Vincent, Northampton, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 13, 1948, Serial No. 59,970
5 Claims. (Cl. 22—188)

5. A sand core for use in the casting of metals comprising foundry sand and a reaction product of glycerine and the product obtained by reacting 500–3000 parts by weight of a tall oil vinyl ester with 100 parts by weight of maleic anhydride, said reaction product having an acid number of less than 100, said sand core having been heat-treated to cure the binder.

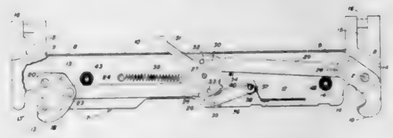
2,534,744
BOMB SHACKLE
George W. Wardwell, Jr., Trumbull, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 2, 1949, Serial No. 113,846
3 Claims. (Cl. 89—1.5)

1. A bomb release shackle having in combination, an elongated supporting frame, bomb carrying hooks pivoted in said frame at opposite ends thereof, links pivotally attached to each hook and to each other so that the hooks may be moved simultaneously, a roller pin mounted on one of the links, an operating lever pivotally mounted in the frame and containing a cam slot cooperable with the roller pin so that movement of the operating lever causes a corresponding movement of the links and their hooks, a shoulder on one of the links, a stop with which the shoulder is engaged when the hooks and their links are in bomb holding position, detent means



in engagement with the operating lever for retaining the shoulder in engagement with the stop, and means for releasing a bomb upon movement of the operating lever in a releasing direction said movement serving to lift the shoulder out of engagement with the stop so that the hooks may be moved to release the bomb.

2,534,745
BOMB SHACKLE
George W. Wardwell, Jr., Trumbull, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 2, 1949, Serial No. 113,847
4 Claims. (Cl. 89—1.5)

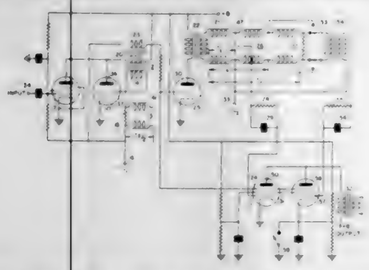


1. A bomb shackle comprising a frame, a pair of bomb supporting hooks pivotally supported on the frame for movement between opened and closed positions, a link arm connected to one of the hooks below its pivot point, a second link arm connected to the other hook above its pivot point, toggle means interconnecting both link arms for moving them in unison in opposite directions to simultaneously move the hooks to opened or closed position, an operating lever mounted for oscillatory movement adjacent the toggle, and stops positioned in the path of oscillation to engage the toggle at the end of each oscillation and operate the toggle.

2,534,746
DECODER
Frank H. Wells, Malvern Link, England, assignor to Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application February 1, 1946, Serial No. 644,968
6 Claims. (Cl. 177—353)

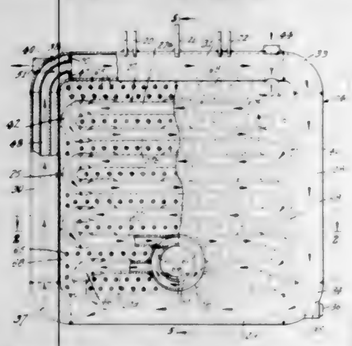
1. In a decoder for delivering an output signal in response to reception of a plurality of input signals spaced apart a predetermined time interval and inoperative to a single pulse extending over said predetermined time interval, pulse generator means operative to produce a single discrete pulse of predetermined duration in response to the leading edge of each input signal applied to the decoder, coincidence response means effective to produce an output signal in response to coincident application thereto of a plurality of pulses, circuit means effective to ap-

ply each said discrete pulse to said coincidence response means, and a delay circuit effective to



delay and then apply each said discrete pulse to said coincidence response means.

2,534,747
OPEN-HEARTH DOOR CONSTRUCTION
Herman W. Wilson and James E. Heyworth, Cleveland, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application June 12, 1946, Serial No. 676,261
2 Claims. (Cl. 122—498)

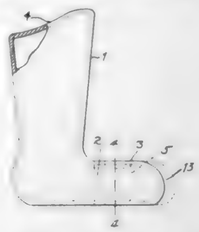


1. A furnace door comprising, in combination, conduit structure defining the periphery of the door and providing a defined, continuous path for flow of coolant around said periphery, the path of said conduit structure being a closed plane figure, disposed in a vertical plane, a backing plate secured to the conduit structure along one face of the latter, to constitute an outer face for the door and to provide a region surrounded by said conduit structure and closed at one side by said plate, said region occupying nearly all of the area of the door, and means in said region, defining further paths for coolant flow, for cooling the portion of the door constituted by said region, said last-mentioned means comprising a multiplicity of horizontal pipe sections, each extending nearly across said region, said sections being interconected for coolant flow through them in succession, said sections being spaced from each other and from the peripheral conduit but distributively occupying substantially all of said region throughout a plane parallel to said plate, each of said horizontal pipe sections being horizontally flattened at least nearly throughout its length and thereby having a horizontally flat upper surface occupying a substantial part of the depth of said region perpendicular to said plate, and refractory material filling all of the spaces in said region and thereby constituting a body of refractory substantially filling said region and substantially surrounding said horizontal pipe sections, said horizontal pipe sections being closely spaced in a vertical direction to each other, said spacing above each of the aforesaid flat upper surfaces being sufficiently close so that upon softening of the refractory material by heat to a flowable state, the said flat surfaces as cooled by the coolant within the pipe sections will keep the spaces predominantly filled with the refractory material, against loss by flowing out.

2,534,748
SUNGLASSES
Thomas A. Willson, Wyomissing, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,353
3 Claims. (Cl. 2—14)

1. An ophthalmic mounting comprising an integral lens framing of substantially sinuous shape and including a groove disposed along its inner edge portion along substantially the entire length thereof, a single lens sheet shaped in accordance with the contour of said lens framing and the lower rim portion of which extends into said groove, said lens sheet projecting upwardly from the uppermost portions of said lens framing and adapted to cover both eyes of the wearer, said sheet having integral ears extending from the sides thereof, said framing having corresponding ear portions including grooves forming an extension of said groove, a pair of temples pivotally mounted to said framing ear portions, and means extending through said ear portions of said framing and lens sheet ear portions for rigidly attaching the lens sheet to the framing.

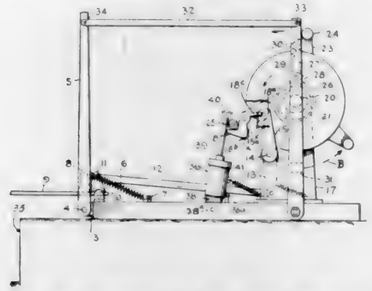
2,534,749
ADJUSTABLE BABY'S BOOTEE BLOCKING FORM
Margaret Kendrick Wright, Knoxville, Tenn.
Application October 17, 1947, Serial No. 780,537
6 Claims. (Cl. 223—77)



6. A baby's bootee blocker form comprising a hollow leg, ankle and foot portion integrally connected together, the top of said leg portion being inclined at an angle, and the forward end of the foot portion being provided with a recessed portion around its circumference which has a plurality of spaced grooves formed therein, and a separable hollow toe cap portion having a plurality of spaced projections formed on the

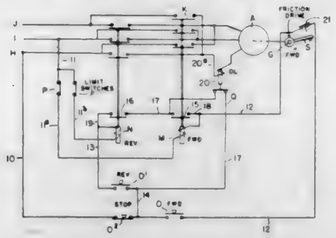
interior wall thereof which are adapted to be adjustably positioned with respect to the grooves formed in the recessed portion of the forward end of said foot portion.

2,534,750
AUTOMATIC REPEATING ANIMAL TRAP
Lathan C. Almond, Sr., Tucson, Ariz.
Application February 27, 1947, Serial No. 731,384
4 Claims. (Cl. 43—73)



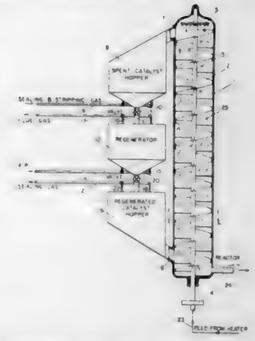
1. In an apparatus of the class described, the combination with a frame, of pusher bars pivotally mounted on said frame, a rotatable spring-containing casing on said frame, said casing provided with studs, said studs provided with pusher fingers, a power bar pivoted thereon and adapted to swing on said frame, said power bar being provided with slots through which said pusher fingers pass, said pusher fingers successively pressing upon said power bar when the spring-containing casing is rotating, for moving the power bar in one direction, and means connecting the power bar to said pusher bars.

2,534,751
ELECTRICAL CONTROL MEANS FOR BALING PRESSES AND THE LIKE
Alford C. Barrows, Ann Arbor, Mich., assignor to Economy Baler Company, Ann Arbor, Mich., a corporation of Michigan
Application January 19, 1948, Serial No. 3,084
5 Claims. (Cl. 318—256)



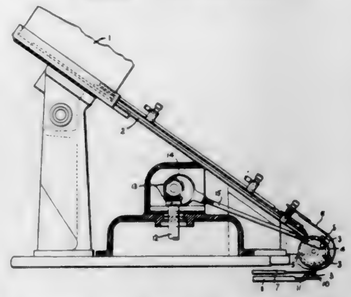
1. A rotary power transmission, an electric motor for driving said transmission alternatively in opposite directions, an electric starting circuit adapted when closed to energize said motor to drive said transmission in the first-mentioned direction of rotation, a switch in said circuit, means operated by the rotation of said transmission in the said direction for opening said switch and maintaining the same and said starting circuit open, and means operated by said transmission when rotated in the opposite direction for closing said switch.

2,534,752
PROCESS FOR THE CATALYTIC CONVERSION OF HYDROCARBONS
La Vern Herbert Beckberger, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application June 21, 1947, Serial No. 756,285
4 Claims. (Cl. 196—52)



1. In a process for the pyrolytic conversion of hydrocarbons wherein the hydrocarbons in vapor phase are passed through a body of catalyst at conversion temperature in a vertically elongated reaction chamber, spent catalyst is continuously withdrawn from one end of the body of catalyst, regenerated and returned to the other end of the body of catalyst, the improvement which comprises passing the catalyst as a continuous body upwardly through the vertically elongated reaction chamber along a spiral path, passing the hydrocarbons to be converted upwardly through a conduit in heat exchange relation but out of contact with the spiral catalyst body to the upper end of the chamber and, from thence, downwardly along the spiral path through the ascending spiral body of catalyst.

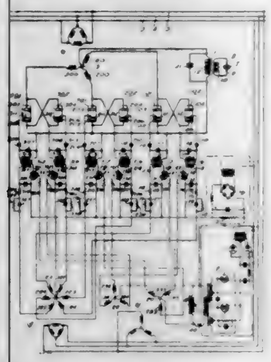
2,534,753
BUTTON FEEDING MECHANISM
Abraham Bellow and Arthur Francis Carter, Leeds, England
Application January 26, 1948, Serial No. 4,436
In Great Britain October 8, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 8, 1966
3 Claims. (Cl. 112—113)



2. In combination with a machine for securing buttons on garments, a hopper, a downwardly inclined chute leading from the hopper, an automatic button positioning transfer mechanism associated with the machine and including a ro-

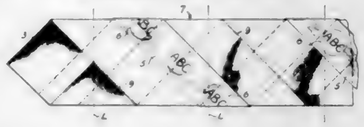
tary roller at the delivery end of the chute, said roller having circumferentially spaced centrally disposed radial spikes arranged to be sequentially moved past the delivery end of the chute to engage an opening in a button as the latter discharges from the delivery end of the chute, a resilient retaining plate partly surrounding the roller and having a slot for receiving the spikes during a predetermined rotary movement of the roller, said plate engaging each button on the roller until the button moves downwardly to a position where the spike engaging the button is in a substantially vertical position, operable means when the said spike reaches the downwardly vertical position for releasing the plate from engagement with the button so as to discharge the same from the roller, and means positioned below the roller for receiving each button as it is discharged from the roller.

2,534,754
CONTROL CIRCUIT
John L. Boyer, Wilkinsburg, and William E. Pakala, Forest Hills, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 31, 1945, Serial No. 625,908
12 Claims. (Cl. 321—56)



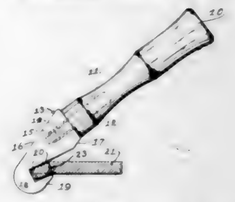
1. Apparatus for supplying power from a source of polyphase alternating voltage to a single phase load, comprising, in combination, a pair of unidirectional electric discharge valves for each phase of said source, each pair of valves being connected in inverse parallel-circuit relation with each other and in series with the corresponding phase of said source and said load, whereby load current in one direction may be conducted only through a first valve of each pair and load current in the opposite direction may be conducted only through a second valve of each pair, timing means for causing a control current to flow in one direction during a first time interval and to flow in the other direction during a second time interval, and control electrodes in said valves and responsive to said timing means in accordance with the direction of said control current flow caused by said timing means for causing said first valves to be conductive to effect a load current in said one direction during a first time period and said second valves to be conductive to effect a load current in the opposite direction during a second time period following said first time period, the length of said first and second time periods being determined by the length of said first and second time intervals, respectively.

2,534,755
HELICALLY-SEAMED LABELED FABRIC TUBING
Charles V. Brady and August F. Ottinger, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Original application February 21, 1945, Serial No. 578,976, now Patent No. 2,437,184, dated March 2, 1948. Divided and this application January 17, 1948, Serial No. 2,948
2 Claims. (Cl. 138—53)



1. The combination of helically seamed woven fabric tubing made from a strip of woven fabric, and a paper label strip extending as a helix around the outside of the tubing throughout its length and secured thereto by adhesive, the helical pitch of the label strip being the same as the helical pitch of the fabric strip and the tubing seam, the width of the label strip being considerably less than the width of the fabric strip so that a substantial continuous helical area of the fabric between the convolutions of the label strip is uncovered.

2,534,756
GLASS BREAKING HAND TOOL
Domenic Richard Corrado, Torrington, Conn.
Application April 19, 1946, Serial No. 663,439
5 Claims. (Cl. 81—3)

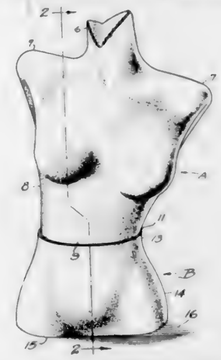


1. In a glass breaking tool, a handle, a tool shank having a curved end section laterally offset from the handle and shank, said curved end section having a rearwardly directed glass breaking slot therein, said slot being composed of plane surfaces in rectangular relation.

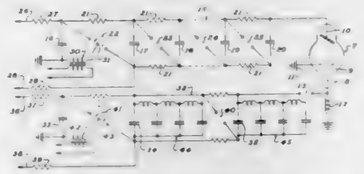
2,534,757
DRESS FORM
Lyon Cordell, Venice, and Luis S. Cordero, Inglewood, Calif.
Application August 1, 1950, Serial No. 177,026
7 Claims. (Cl. 223—68)

1. In a dress form, in combination, a base section comprising a tubular wall representing the waist and hip section of a human form and having at its upper end a rim disposed in a substantially horizontal plane, said rim defining an opening at the upper extremity of the space within said tubular wall and a bust section having an outer wall the lower area of which defines a generally frusto-conical downwardly tapered lower portion receivable within said opening and space, with said lower outer wall having an annular line of engagement with said rim to provide for the support of said bust section by said rim, said outer wall and rim cooperatively

defining, at the waist of the form, an unobstructed annular opening through which a bust garment may be tucked into said space so that the visible portion thereof terminates at the waist in a manner permitting pivotal adjustment

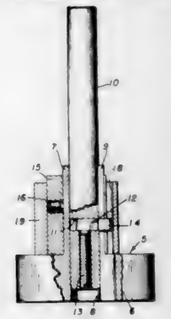


of said bust section in said base section to selected positions of angular adjustment relative thereto, said sections being unconnected except by the supporting engagement of said bust section by said base section.

2,534,758
X-RAY SYSTEM
Ernest W. Titterton, Harwell, Bidcot, England
Application September 26, 1947, Serial No. 776,236
3 Claims. (Cl. 250—98)

1. An X-ray system comprising an X-ray tube having a cathode grounded through an inductance, a directly grounded electrode and a target electrode, first surge generator means in series between said target electrode and ground for effecting arc discharge between said target electrode and said cathode, second surge generator means in series between said cathode and ground and in parallel with said inductance for effecting arc discharge between said cathode and said grounded electrode, separate triggering means associated with each of said generator means and with each other in predetermined time delay relationship whereby said second generator means is activated to discharge in advance of said first generator means, and a common means for activating said triggering means.

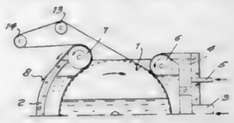
2,534,759
CUTTING TOOL
Hermann George Dulli, Hamilton, Ohio
Application April 8, 1947, Serial No. 740,187
3 Claims. (Cl. 90—43)

1. An internal groove cutting tool comprising a work support including an upstanding tubular member having a slot therein, an eccentric adaptor sleeved on the tubular member and on which work is supported in an upright position, said adaptor also having a slot registering with



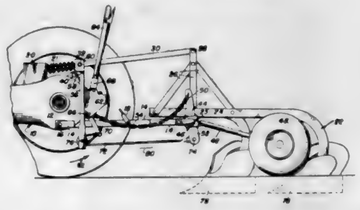
the first named slot, and a cutter mounted to travel in said slots.

2,534,760
FILTERING APPARATUS
Karl Lauri Ellilä, Helsinki, Finland
Application September 19, 1946, Serial No. 697,870
In Finland April 25, 1946
7 Claims. (Cl. 210—199)



1. The method of filtering comprising, in continuous sequence, the steps of building up a filter cake on a porous medium by passing a liquid suspension of filter material therethrough; transferring the filter cake in inverted form to continuous porous filter means so that the exterior surface of the filter cake on said porous medium becomes the interior surface of the cake on said filter means; passing the liquid to be filtered through said cake and filter means; removing the cake from the filter means; and moving the latter into position for another succession of operations.

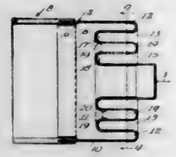
2,534,761
DEPTH CONTROL FOR TRACTOR-DRAWN IMPLEMENTS
Julius E. Englund, Fenton, Mich.
Application July 8, 1949, Serial No. 103,715
6 Claims. (Cl. 97—50)



1. The combination of a tractor having a conventional liftable implement carrier including a pair of supporting arms, and a control valve mounted on the tractor and provided with a spring-pressed actuating plunger, an implement having trunnions pivoted in said arms, and a depth control mechanism comprising a crank

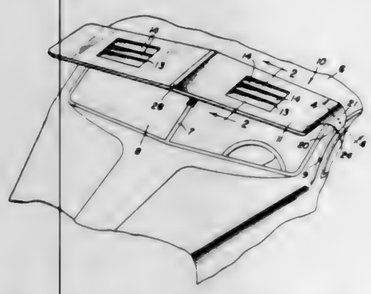
member pivotally mounted on one of said trunnions and swingable in a substantially vertical plane, a ground-engaging element provided on said crank member, an actuating member pivoted to said tractor and engaging said plunger, and flexible connecting means extending between said crank member and said actuating member.

2,534,762
ELECTRODE STRUCTURE FOR GLOW DISCHARGE TUBES
Hirsch Epstein, Chicago, Ill.
Application August 13, 1945, Serial No. 610,578
10 Claims. (Cl. 176—126)



1. An electrode comprising a tube and a closure for one end thereof comprising a central portion and surrounding said central portion a circular fold forming an annular cylindrical pocket the inside of which is open at the front, the inner surface of said annular pocket that faces inwardly of the tube being coated with an electron-emitting material.

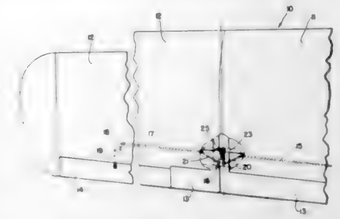
2,534,763
EXTERIOR-TYPE SUN VISOR
Clarence B. Flavin, Flint, Mich.
Application May 17, 1948, Serial No. 27,502
2 Claims. (Cl. 296—95)



1. An attachment for an automobile windshield comprising a sun visor, said sun visor having sight openings on opposite sides of its medium transverse portion, and shutter means closing the sight openings, said shutter means embodying hingedly connected shutters and individual manually operable Bowden wires connected with the shutters for opening and closing same.

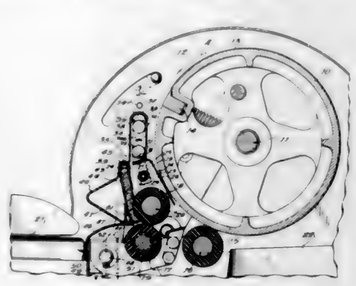
2,534,764
FOLDING WING AILERON CONTROL UNIT
Harry P. Focht, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application August 5, 1944, Serial No. 548,242
7 Claims. (Cl. 244—49)

1. A mechanism for disposition in the aileron control system of a folding wing airplane having an aileron mounted on the foldable wing, said mechanism comprising an operating element normally movable about a principal axis which intersects the wing folding axis, a transfer member pivoted on said operating element for swinging displacement about an axis which may move into or out of a position of coincidence with the wing folding axis, the motion of the pivot axis



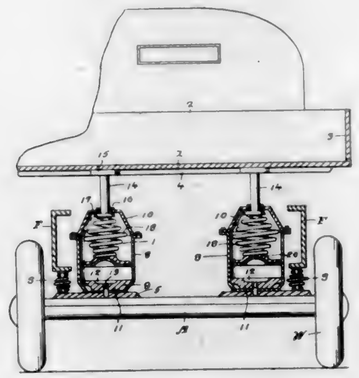
between said element and member resulting in aileron movement, and a motion controlling part fixed to the foldable wing supporting said transfer member for rotation only whereupon folding of the wing the transfer member is forced to swing in a plane normal to the wing folding axis and hence rendering incapable the movement of the aileron.

2,534,765
LIQUID APPLICATOR FOR DUPLICATING MACHINES
Herman A. Genz, Elmhurst, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application May 6, 1948, Serial No. 25,341
3 Claims. (Cl. 91—48)



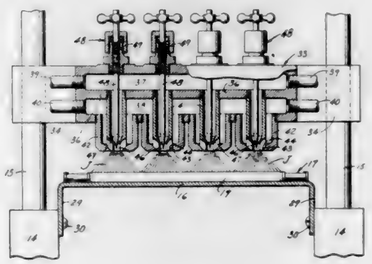
1. In a duplicating machine, the combination of a moistening roller, a fountain disposed above the roller, a fixed bracket above the fountain having an arcuate supporting surface thereon, and a wick assembly mounted adjacent to the roller and including a wick and a wick supporting frame having an arcuate bearing member adapted to cooperate with the arcuate supporting surface to mount the frame for swinging movement from a first position with the wick engaging the roller to a second position with the wick disposed outwardly in spaced relationship with the roller, the wick assembly being removable only when in its second position by first being adapted to be lifted with the arcuate bearing member being raised with the arcuate supporting surface, and stop means engaging the wick assembly to limit the lifting movement when the assembly is disposed in its first position.

2,534,766
WEIGHING AUTOMOTIVE TRUCK
Roirden B. Girdwood-Blackett, Hubertstown, Guapo, Trinidad, British West Indies
Application December 31, 1946, Serial No. 719,421
1 Claim. (Cl. 265—40)



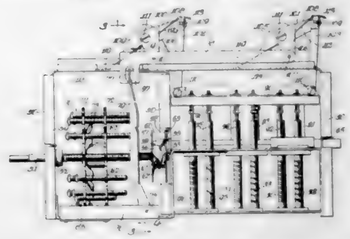
In a load weighing vehicle having a body positioned above a chassis, a plurality of spaced vertically disposed cylinders carried by the chassis and distributed thereover, floating pistons positioned in the cylinders, vertically disposed piston rods carried by the said body and extended downwardly and into said cylinders, springs in the said cylinders between the lower ends of the piston rods and pistons for transmitting loads of the body on the piston rods to the said pistons, a load indicator positioned on the said chassis and tubes connecting the said load indicator to the said cylinders, said tubes containing a fluid transmitting agent.

2,534,767
METHOD FOR SEVERING THE HEADS FROM THE BODIES OF SHRIMP
Charles Allen Greiner and Elbert Forrester Greiner, New Orleans, La.
Application May 3, 1948, Serial No. 24,778
11 Claims. (Cl. 17—45)



1. A method of separating the head from the body of a shrimp consisting in directing against the shrimp a blast of fluid under sufficient pressure to cause the head to be severed from the body.

2,534,768
TELEVISION TUNER
Emery L. Hall, La Grange, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application October 8, 1948, Serial No. 53,447
8 Claims. (Cl. 250—40)

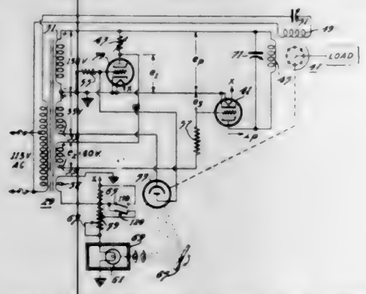


1. Tuning apparatus for a television receiver which is adapted for operation on a plurality of individual channels in each of two frequency ranges, and which includes a circuit having first tuning elements with movable members for selecting channels in one frequency range and second tuning elements with movable members for selecting channels in the other frequency range and switch means for selectively connecting said first and said second tuning elements in the receiver circuit; said tuning apparatus comprising in combination, a rotatable shaft, first cam means on said shaft including first and second portions individually corresponding to said frequency ranges, a first member connected to said switch means and positioned to be engaged by said first cam means, said first member operating said switch means for selectively connecting said first and second tuning elements in said receiver circuit in response to rotation of said shaft to positions in which said member is adjacent said first and second portions respectively, second cam means on said shaft having a plurality of individually defined angularly spaced portions corresponding to said channels in said two frequency ranges, and a second member having a portion connected to said movable members of all said tuning elements and engaging said portions of said second cam means for moving said tuning elements to positions corresponding to each of said channels in response to rotation of said shaft.

2,534,769
PHOTOELECTRIC MOTOR CONTROL
Stephen V. Hart, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 29, 1946, Serial No. 693,792
9 Claims. (Cl. 318—31)

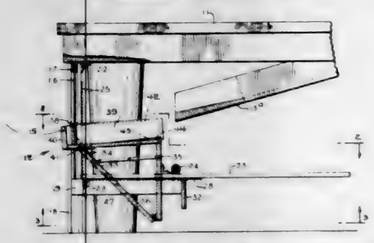
9. A light responsive control system comprising a light responsive device, a source of light, a movable control element for causing a predetermined amount of light to impinge on said device in accordance with the relative position of said control element and said device, a controlled element, a motor for moving said controlled element and said device in one direction when said motor is energized by a current exceeding a predetermined value, a first discharge device having a control grid, said first discharge device being in circuit with said motor for controlling the energizing current applied thereto, means for applying two alternating voltages of opposite phase to said control grid of said first discharge device, one of said alternating voltages being developed across the output of a sec-

ond discharge device having a control grid, means for controlling the amplitude of said one of said two voltages as a function of the amount of light impinging of said light responsive device, means for developing a voltage controlled



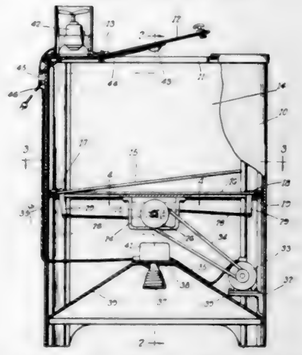
by said light responsive device, said developed voltage being applied to the control grid of said second discharge device whereby a movement of said movable element produces a corresponding movement of said controlled element.

2,534,770
BALL RETURN MEANS FOR POOL TABLES
Frank Grooms Holmes, Philadelphia, Pa.
Application January 17, 1946, Serial No. 641,750
6 Claims. (Cl. 273—11)



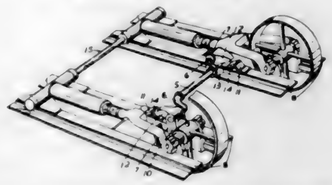
1. In a pool table having a flat top surface supported on vertical legs and a chute for collecting the balls which drop into the pockets of the table and delivering them to a point adjacent one end of the table, a pair of support members vertically slidably mounted between the legs at the end of the table where the chute delivers the balls and normally in a lowered position, runners mounted on the support members to slide in a horizontal plane relative to said support members and having a normal position beneath the top surface and rearward relative to said support members when said support members are in their lowered position, a collecting tray mounted on said runners to receive the balls as they drop from the end of the chute, an axle horizontally rotatively supported by said support members, a rack formed on one of the legs carrying said support members and on the side thereof adjacent said axle, a pinion fixed on said axle and engaging said rack to cause said axle to be turned in one direction as said support members move upward and to be turned in the opposite direction as said support members move downward, a rack formed along the bottom face of one of said runners, a second pinion fixed on said axle and meshing with said latter-mentioned rack to cause said runners and said collecting tray mounted thereon to be moved outward to a position adjacent the said one end of the table when the support members are raised and to be moved inward to their starting positions when said support members are lowered, and means for raising and lowering said support members.

2,534,771
MECHANICAL CLOTHES DRYING APPLIANCE FOR DOMESTIC USE
Harry P. Houser, Vinton, Iowa
Application September 4, 1947, Serial No. 772,168
3 Claims. (Cl. 34—164)



1. A mechanical clothes dryer comprising a substantially enclosed housing having a hinged cover, an exhauster positioned on the upper end of the housing and communicating with the interior thereof, opposed clothes carrying and fluffing elements positioned in the housing and having spaced fingerlike members extended therefrom and positioned in the lower part of the housing with the fingerlike members of each element alternating and fitting in the spaces between the fingers of the other element, and means alternately raising and lowering the said fingerlike elements.

2,534,772
SUSPENSION SYSTEM FOR TRACTORS AND LIKE VEHICLES
Arthur Clifford Howard, Leeds, England
Application June 15, 1948, Serial No. 33,014
In Great Britain June 30, 1947
2 Claims. (Cl. 305—9)



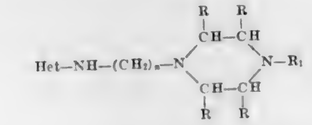
1. In a suspension system for endless track vehicles, a main frame, a cross shaft connected to the main frame, said cross shaft being cranked forwardly at one end and rearwardly at the other end, a pair of spaced track frames, links connected to the track frames, said links having transverse openings into which the ends of the cross shaft are journalled, said links having projections extending in opposite directions, and said track frames having stops mounted thereon arranged to engage said projections for limiting the oscillating movement of the track frames.

2,534,773
POWER-DRIVEN OSCILLATING ERASER
Paul C. Hutton, Washington, D. C.
Application November 20, 1947, Serial No. 787,077
7 Claims. (Cl. 120—36)

4. A power driven oscillating eraser comprising an elongated tubular body, a pivot mounted intermediate the ends of the body for adjustment longitudinally thereof, a rocker arm mounted on the pivot for oscillatory motion within the body, an eraser carrier on one end of the rocker arm for movement therewith beyond one end of the body, a spring loaded drum rotatably supported adjacent the end of the body remote from the eraser, a tape connected at one end to the drum for winding thereon under the influence of the spring contained in said drum, said tape having a zig-zag longitudinal cam track therein and means on the rocker arm for engaging the cam track and oscillating the arm as the tap is wound upon the drum.

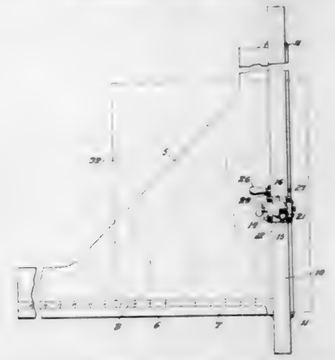
2,534,774
PIPERAZINE DERIVATIVES
Robert Michel Jacob, Ablon-sur-Seine, and Jacques Robert, Paris, France, assignors to Societe des Usines Chimiques Rhone Poulenc, Paris, France, a French body corporate
No Drawing. Application January 6, 1950, Serial No. 137,289. In France January 24, 1949
4 Claims. (Cl. 260—268)

1. New therapeutic agents of especial value as anti-malarial agents, being piperazine derivatives which conform to the general formula:



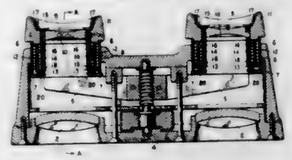
where each R is selected from the class consisting of the hydrogen atom and the methyl group, R_1 is selected from the class consisting of methyl and ethyl groups, n is an integer selected from 2 or 3 and Het represents a radical selected from the class consisting of 7-chloroquinolyl-4- and 2-chloro-7-methoxyacridyl-5-.

2,534,775
GLASS CUTTING BOARD
Chester K. Judd, Jr., Bristol, Conn., assignor to The Fletcher-Terry Company, Forestville, Conn., a corporation of Connecticut
Application June 16, 1948, Serial No. 33,350
5 Claims. (Cl. 49—48)



1. A glass cutting board of the character described comprising a board having a supporting surface, means along the lower edge of said board for supporting a sheet of glass resting on said surface, a track spaced from and running along an edge of said board perpendicular to the lower edge thereof, a cutting device slidable on said track, a cutter carried by said cutting device along the said perpendicular edge of the said board, and a breaker member pivotally carried on said cutting device and having a portion reaching beyond the said perpendicular edge of the board for breaking off a piece of glass on a line with said perpendicular edge.

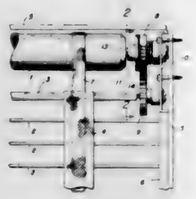
2,534,776
BINOCULAR
Norman Kershaw and Harry Ryder, Leeds, England, assignors to A. Kershaw & Sons Limited, London, England
Application January 21, 1948, Serial No. 3,646
In Great Britain November 27, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 27, 1966
3 Claims. (Cl. 88—34)



1. A binocular structure comprising a body member carrying fixed lenses, a focusing screw mounted in said body member, a bridge piece adjustable on said focusing screw, a sleeve supported on each end of said bridge piece and slidable in apertures in said body member, an eye piece mounted on each of said sleeves, an inverted U-shaped eye lens cell slidably mounted within each of said eye pieces, an eye lens mounted within each of said eye lens cells, said eye lens cells extending downwardly below said eye pieces and including at the lower ends thereof slotted flanges extending outwardly substantially to said sleeves, helical springs retained between said eye lens

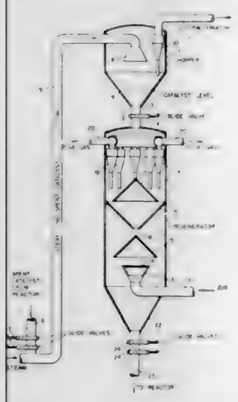
cell flanges and the undersides of said eye pieces, and clip members engaging said eye pieces, extending downwardly through the slots of said eye lens cell flanges and engaged to said bridge piece.

2,534,777
VENETIAN BLIND TILT CONTROL MEANS
Michael L. Kesner, Chicago, Ill.
Application August 12, 1948, Serial No. 43,871
8 Claims. (Cl. 160—170)



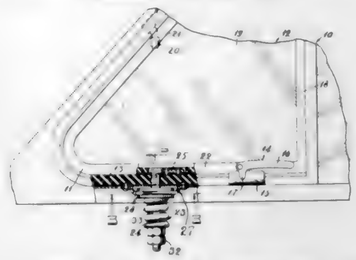
1. A louvred blind comprising a roller member, means to rotate said roller member, a rotatable louvre tilting member mounted independently of said roller member, operating means connected between said members and arranged to turn said tilting member upon rotation of said roller member, said operating means comprising a pair of relatively shiftable rotatable elements normally engaging each other frictionally, and means adapted to shift one of said elements out of engagement with the other at predetermined angular position of rotation of said tilting member during rotation of said roller.

2,534,778
APPARATUS FOR THE REGENERATION OF CATALYST FOR USE IN THE CONVERSION OF HYDROCARBONS
George F. Kuhn, Sinclair, Wyo., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application June 21, 1947, Serial No. 756,289
2 Claims. (Cl. 23—288)



1. Apparatus of the character described comprising a vertically elongated regenerating chamber, a second chamber positioned at an elevation higher than that of the regenerating chamber, an elevator conduit leading to the upper chamber and adapted to convey a suspension of finely divided catalyst in steam thereto, a conduit leading from a lower zone of the upper chamber into the center of the upper end of the regenerating chamber and adapted to the gravitation of catalyst therethrough, a perforated conical baffle positioned in an upper zone of the regenerating chamber and having its apex directly below the conduit entering the upper end of said chamber, conduit means for delivering air to a lower zone of the regenerating chamber and conduit means for withdrawing catalyst from a lower zone and gaseous products of the regeneration from an upper zone of the regenerating chamber.

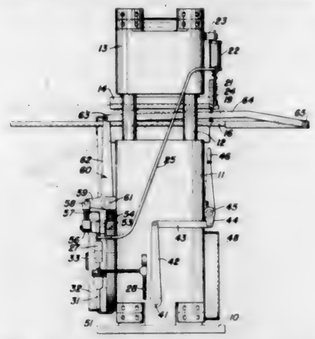
2,534,779
VARIABLE FRICTION PIVOT FOR VENTILATOR PANELS
Guy M. Lane and Harold G. Thunder, Detroit, Mich., assignors to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application July 7, 1947, Serial No. 759,448
5 Claims. (Cl. 296—44)



1. A window assembly comprising a main frame, a ventilator panel positioned in the main frame, means supporting the panel on the main frame for swinging movement about an up and down axis, said means including a pivot assembly having a part fixed against rotation with the ventilator panel, a pair of plates rotatable as a unit with the ventilator panel and positioned to frictionally engage opposite sides of the fixed part, means for yieldably holding the plates in frictional contact with the fixed part, and raised cam surfaces on adjacent sides of the plates in positions to engage opposite sides of said part upon rotation of the ventilator panel from its closed position and inclined to progressively increase the clamping pressure between the plates and fixed part in response to continued swinging movement of the ventilator panel toward its open position.

2,534,780
WORK FEEDING MEANS FOR PRESSES
Clifford N. Lovenheim and Andrew S. Lovenheim, Rochester, N. Y., assignors to Rosco Mfg. Co., Rochester, N. Y., a partnership
Application February 18, 1949, Serial No. 77,104
6 Claims. (Cl. 164—21)

1. A work feeding means for a press having head and bed elements one of which has a reciprocating movement toward and from the other to press the work, and table means having a reciprocating movement transversely of the path of movement of the movable one of said elements for feeding the work to pressing position therebetween, said work feeding means comprising a clearing member supported for movement toward and from position for engagement with the work on said table means, and mechanism for intermittently moving said member in timed coordination with the movement of said table means

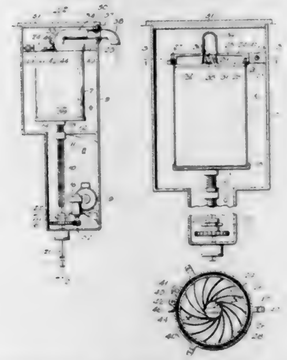


for engaging said work after pressing thereof between said elements for clearing said work from said table means during said reciprocating movement of said table means.

2,534,781
STABLE LITHIUM HYPOCHLORITE COMPOSITION
James Douglas MacMahon, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
No Drawing. Application May 24, 1945, Serial No. 595,662
3 Claims. (Cl. 252—99)

1. A stable solid water soluble composition adapted for use in cleansing, disinfecting and similar operations consisting essentially of substantially anhydrous lithium hypochlorite and at least one substantially anhydrous alkali metal component selected from the group consisting of sodium carbonate, trisodium phosphate and sodium silicate in a proportion within the approximate range of 3 to 10 parts for each part of lithium hypochlorite.

2,534,782
DISPENSING MACHINE FOR ICE CREAM AND SHERBETS
Duane C. Maddux, Burbank, Calif.
Application September 16, 1947, Serial No. 774,212
13 Claims. (Cl. 222—80)

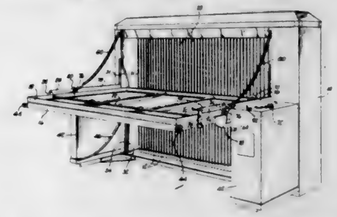


1. Apparatus for dispensing frozen confection material from an open ended cylindrical carton of readily destructible material, comprising means for feeding the carton progressively toward its open end, means associated with said open end including cutting means for engaging the contents of the carton and stripping means for progressively removing a ribbon of material circumferentially from the rim of the carton, and means for producing relative rotation between said associated means and the carton whereby to render said cutting and stripping means operative as the carton is fed thereto.

2,534,783
SAFETY LATCH ADAPTED FOR HANDBAGS AND THE LIKE
Richard Marogg, Hastings on Hudson, N. Y.
Application July 24, 1947, Serial No. 763,388
4 Claims. (Cl. 150—42)

4. In a latch; the combination with a male element; of a female element adapted to admit and engage said male element, and comprising a resilient loop adapted to be grasped and squeezed in the hand to force the sides of said loop towards each other; a pair of latch-forming members, one connected to each side of said loop; said members being crossed, one over the other, in a zone adjacent said loop and extending outwardly from said zone in spaced relation to receive said male element therebetween; whereby said members will move apart in opposite directions to open said latch when said loop is squeezed; and means connected to one of said members and adapted to cooperate with said male member for preventing the passage of said male member either into or out of the space between said members unless said latch is opened.

2,534,784
PHOTOMECHANICAL PRINTING FRAME
John D. Maxwell, Glen Head, N. Y., assignor to Powers Photo Engraving Company, Glen Cove, N. Y., a corporation of New York
Application January 11, 1949, Serial No. 70,212
6 Claims. (Cl. 95—73)



1. In a photomechanical printer wherein a series of tubular light sources are vertically aligned

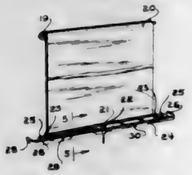
and a printing frame is provided for carrying a sensitized material and an image to be reproduced by exposure to said light sources, means for moving said printing frame from a horizontal loading position to an inverted horizontal inspection position and for moving said printing frame from a horizontal position to a vertical exposure position closely adjacent said light sources, comprising a pair of horizontal tracks, one at each side of said frame, said tracks extending from a point adjacent said light sources for a distance substantially one-half the length of said frame, a pair of pivotal supports, one projecting from the substantial center of each side of said frame, said supports being an axis of rotation for inverting said frame and said supports acting in conjunction with said tracks to form a transporting means for moving said frame to and from a proper vertical photomechanical printing position adjacent said light sources.

2,534,785

VERTICALLY ADJUSTABLE CURTAIN HANGING DEVICE

Samuel Mayer, Bronx, N. Y., assignor of one-half to Isador Stern, Bronx, N. Y.

Application November 12, 1946, Serial No. 709,140
3 Claims. (Cl. 160—110)



2. A curtain retaining device for use with a conventional roller member, comprising a shade member attached at one end to the roller, two bars and a longitudinally adjustable curtain rod, said shade member being provided with a tube member along its free end, said bars being respectively slidably positioned in and protruding from ends of said tube member, and the protruding ends of the bars and the ends of the rod being provided with coacting means to support said rod adjustably and detachably.

2,534,786

WELDER'S INSPECTION LIGHT

Edward D. McElhaney and Frederick N. Michehl, Dunkirk, N. Y.

Application August 17, 1949, Serial No. 110,846
4 Claims. (Cl. 173—340)

1. A circuit connector for cables comprising a clamp adapted for embracing a cable and including inner and outer concentric conductor rings and an intermediate insulation ring, a prong carried by the inner ring contacting the cable upon clamping engagement of the clamp therewith, said outer ring constituting a ground, and recesses in the inner and outer rings for an electric plug.

2,534,787

COMPOSITION FOR THE TREATMENT OF PLANTS AND METHOD OF USING SAME

Sebastian B. Mecca, Fox Chase Manor, Pa., assignor to Schuylkill Chemical Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application February 25, 1947, Serial No. 730,751
10 Claims. (Cl. 71—2.4)

1. A composition for the treatment of chlorosis in plants, comprising a mixture of two distinct compounds one of which is a water-soluble metallic salt of the parent structure of chlorophyll and the other of which is a water-soluble compound furnishing an element selected from the group consisting of iron, zinc, and manganese.

2,534,788

BEARING

Anthony George Maldon Michell and August John Seggel, Melbourne, Victoria, Australia

Application August 23, 1944, Serial No. 550,786
In Australia September 28, 1943
5 Claims. (Cl. 308—73)

1. A film-lubricated bearing comprising load-carrying members relatively rotatable in opposite directions, and a plurality of annular series of freely rotatable floating pads interposed between the load-carrying members, the pads of at least one of said series facing in one direction to transmit loads in one direction of relative rotation between said members, and the pads of at least one other of said series facing in the opposite direction to transmit loads in the opposite direction of relative rotation between said members, said pads having similar relatively offset slidable bearing surfaces on their opposite sides.

2,534,789

ABSORPTION REFRIGERATION

Glen W. Miller, Covina, Edward L. Kells, Alhambra, and Delmar H. Larsen, West Hollywood, Calif.

No Drawing. Application October 5, 1946, Serial No. 701,402
12 Claims. (Cl. 62—179)

1. A refrigerant-solvent combination for use in absorption refrigeration machines consisting essentially of perchloroethylene in substantial concentration as the solvent and a refrigerant in substantial concentration chosen from the group of aliphatic hydrocarbons of fewer than four carbon atoms and having at least one hydrogen atom substituted by a halogen of atomic weight less than 50.

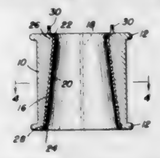
2,534,790

FISHHOOK RELEASER

John C. Moore, Bolivar, N. Y.

Application February 3, 1948, Serial No. 5,970
3 Claims. (Cl. 43—17.2)

1. A fish hook releaser comprising a body having an upwardly and inwardly tapered central bore and a longitudinal slot communicating with the bore for receiving a fishing line, an arcuate resilient locking plate extending throughout the length of said body and yieldingly mounted in the central bore, means for rotating the locking plate to close the slot throughout its length, means for retaining a line wound about the body, and means carried by the body for engaging a



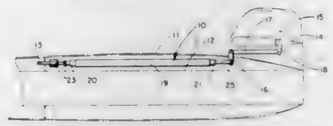
raising and lowering line, said second-named means including upper and lower flanges at the ends of said body, said slot extending through said flanges.

2,534,791

TEMPERATURE COMPENSATED CONTROL ROD

Edward L. Moyer, Reynoldsburg, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application October 14, 1948, Serial No. 54,438
6 Claims. (Cl. 74—579)



1. In an aircraft control system having a push-pull rod passing through a zone subjected to substantial temperature variation, said rod comprising three telescoped tubes, one pair of said three tubes being secured together adjacent one end thereof and another pair of said three tubes being secured together adjacent the opposite end thereof by fasteners which extend substantially diametrically through the tubes, the ends of the tubes not so secured by said fasteners having elongated openings passing said fasteners, said ends of the tubes not so secured being axially slidable relative to the secured tube ends and being connected to the control system, the two tubes which have their ends so connected to the control system being of steel and the other tube being of aluminum, whereby said last mentioned two tubes have a temperature coefficient of expansion approximately half that of the material of the other tube and whereby the length of the rod is therefore substantially unaffected by the temperature changes which it will encounter in said zone.

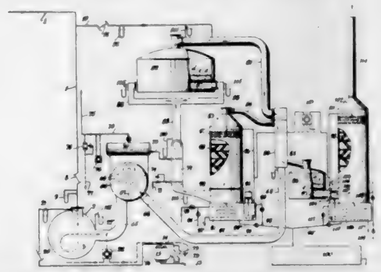
2,534,792

REACTION FURNACE AND RECOVERY UNITS

Samuel L. Nevins, Little Rock, Ark., and James S. Gilliam, Jr., Shreveport, La., assignors, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia

Application January 25, 1945, Serial No. 574,607
16 Claims. (Cl. 23—262)

1. Apparatus for producing elemental sulfur from sulfide-containing gases which comprises a reaction furnace having an enclosed refractory lined chamber with an outlet opening in one wall thereof, an inlet conduit of refractory material having an entry on the exterior of said furnace and extending into said chamber in two reaches, the outlet reach of said conduit being at substantially right angles to the inlet reach and substantially perpendicular to the wall in which the outlet opening of the furnace is located so that the outlet opening of the conduit in said chamber is directed in the opposite direction from the outlet opening of said chamber, baffling elements in said furnace between the



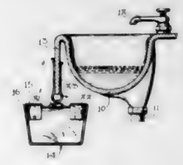
conduit entry and the chamber outlet opening, a sulfur scrubbing unit, and a temperature regulator unit interconnecting said reaction furnace outlet opening and said sulfur scrubbing unit.

2,534,793

DRIP PAN ATTACHMENT FOR SINKS

Eric Olson, Jersey City, N. J.

Application June 19, 1947, Serial No. 755,571
7 Claims. (Cl. 4—187)



1. A drip pan arrangement for a sink, comprising a drip pan, attaching means fixed to the top of the drip pan and adapted to be releasably extended over the edge of a sink whereby to removably secure the drip pan thereupon, said attaching means including a portion secured to the pan and a clothespin-like portion adapted to slide upwardly over opposite faces of the sink edge.

2,534,794

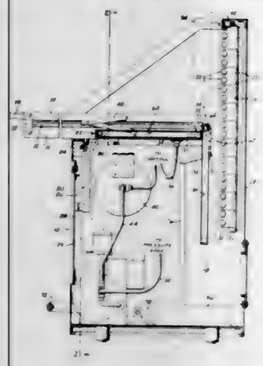
PHOTOMECHANICAL PRINTER

Frank T. Powers, Sr., deceased, late of Glen Cove, N. Y., by Frank T. Powers, Jr., Locust Valley, and John M. Powers, Glen Cove, N. Y., executors, assignors to Powers Photo Engraving Company, a corporation of New York

Application October 2, 1948, Serial No. 52,532
4 Claims. (Cl. 95—73)

1. In a photomechanical printer wherein a series of tubular light sources are vertically aligned and a substantially rectangular printing frame is provided for carrying a sensitized material and an image to be reproduced by exposure to said light sources, means for moving said frame from a horizontal loading position to a vertical exposure position comprising a vertical track at each side of said frame parallel and in close proximity to said vertically aligned light sources, a horizontal track at each side of said frame positioned with its forward end at the upper portion of said vertical track, a pair of supports projecting oppositely from each side of the frame, said supports being slidably shifted from its horizontal position to a vertical position, said ver-

tical position being in close proximity and in proper parallel photomechanical printing align-

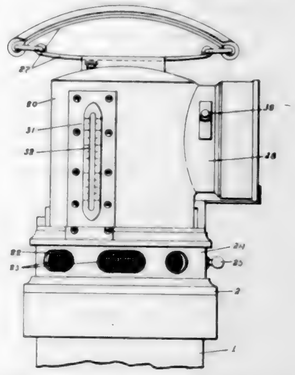


ment with respect to said vertically aligned tubular light sources.

2,534,795
AUTOMATIC FISH CATCHER
Walter E. Ramsey, Graham, Tex.
Application June 23, 1948, Serial No. 34,659
3 Claims. (Cl. 43—15)

1. In a fishing line snap actuator, the combination which comprises a rod having a line attaching eye in one end and a slot through the other, a flat bar having a shoulder on one edge spaced from one end with a recess in the same edge and spaced from the opposite end providing a trigger, means pivotally mounting the end of the said flat bar on which the shoulder is positioned in the slot of the rod, said trigger having a notch in the end thereof through which it is pivotally mounted in the rod and on the side thereof opposite to that on which the shoulder is positioned, an arm extended outwardly from the rod and having hubs on the ends thereof slidably mounted through the hub at one end thereof on the rod, a spring on the rod between the hub of the arm and eye of the opposite end, a bail pivotally mounted in the hub of the arm that is positioned on the rod and positioned to snap into the notch of the trigger for holding the spring, a plunger having a trigger receiving notch therethrough slidably mounted in the hub on the extended end of the arm and positioned with the slot therethrough positioned to receive the trigger, and a line attaching ring on the extended end of the plunger.

2,534,796
APPARATUS FOR INDICATING THE PRESENCE OF INFLAMMABLE VAPORS OR GAS
Henry Thomas Ringrose, Leeds, England
Application April 23, 1947, Serial No. 743,260
In Great Britain May 31, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 31, 1961
1 Claim. (Cl. 23—255)

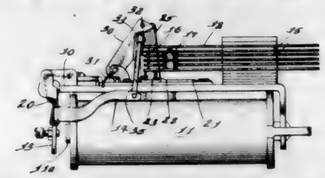


In an apparatus for indicating the presence of inflammable vapors or gases including a battery container provided with an open upper end, a lamp ring closing said end, a porous vessel on said ring, a rotatable damper ring encircling said vessel and spaced therefrom to form an admission chamber, said ring having circumferentially spaced openings, a wick of absorbent material within said chamber, an annular member between said wick and said damper ring and provided with spaced openings arranged to register with the openings in said damper ring for controlling the supply of atmospheric air to said chamber, a clamping plate on the top of said vessel, said clamping plate having a depending boss extending into the vessel, a contact plate having spaced contacts on its underside for contacting battery terminals and a central mounting boss on its upper side projecting into said porous vessel, said central boss having a transverse recess and radial channels, for giving access to said recess for gas which diffuses into the porous vessel, a filament in said recess having electrical connections with said contacts, a manometer on said clamping plate, a cover mounted on said vessel and enclosing said manometer, means communicating the recess in the central boss with said manometer, and a scale on said cover associated with the manometer.

2,534,797
SWITCH HOLDING AND RELEASE MECHANISM
James A. Rugh, Chicago, Ill.
Application October 14, 1949, Serial No. 121,369
5 Claims. (Cl. 200—87)

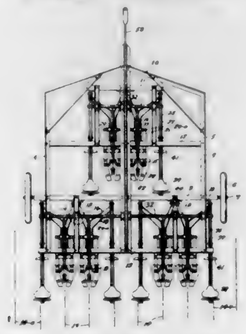
5. In a relay type switch comprising a frame, a coil, switch contacts, and a hinged, spring biased armature having a pair of arms terminating adjacent said contacts, the combination therewith of a switch holding and release mechanism in-

cluding a contact engaging member resiliently attached to said frame, a bar carried by said contact engaging member, a link pivoted to said frame and spring biased toward said bar, a bar and link



actuator carried by said armature arms and adapted alternatively to engage said bar and said link in response to armature action, and a guide means for directing such alternative engagement.

2,534,798
TRANSPLANTER DRILL SET
Carl Schneider, Enfield, Conn.
Application February 12, 1946, Serial No. 647,049
1 Claim. (Cl. 111—85)



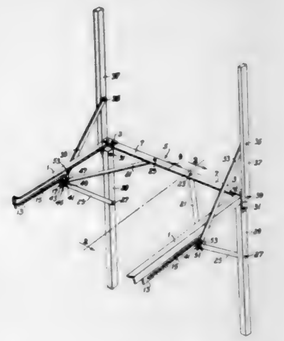
In a transplanter drill set, in combination with a transversely extending frame, a pair of parallel bars extending longitudinally relative to said frame, the forward ends of said bars being pivoted on said frame, a plow carried by the rear portions of said bars, a pair of longitudinally extending pressure bars pivoted on said frame adjacent to and on opposite sides of said parallel bars, a pair of longitudinally extending support bars disposed on opposite sides of said plow, the forward ends of said support bars being pivotally connected to intermediate portions of said pressure bars, a soil-packing plate supported on the rear part of each support bar, connecting means between the rear portions of said pressure bars and each of said support bars, resilient means between the rear portions of said pressure bars and the aforesaid plow-carrying parallel bars, and means for applying pressure to said pressure bars, whereby the pressure applied to the pressure bars is transmitted through the connecting means to the support bars and plates and through the resilient means and parallel bars to the plow.

2,534,799
SMOKING DEVICE
Elmer R. Schwinn, Chicago, Ill.
Application January 18, 1946, Serial No. 641,927
2 Claims. (Cl. 131—182)

1. A smoking device comprising a tubular casing having one of its ends adapted to hold an article for smoking, a core extending longitudinally of, and slidable and rotatable in the casing, adapted when slid in the direction of said one end of the casing to eject the article from the casing, and provided at one of its ends with an inlet-duct for smoke, at its other end with an outlet-duct and with means between said ends and independent of the ducts for retaining tobacco juice and condensate from the smoke within the casing, a mouthpiece disposed normally at the other end of the casing, connected to the core for slid-

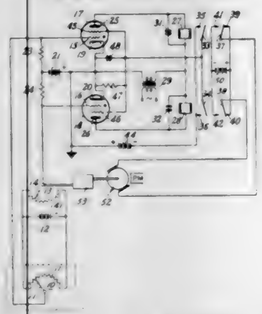
ing and rotative movement therewith, and provided with a draft-duct communicatively connected to receive smoke from the outlet-duct in the core, and a collar extending around and serving to support the core and connected by a screw-thread connection to the interior of the casing, the core being non-circular in cross section and the collar having its interior of corresponding cross section in order that turning of the core by the mouthpiece causes connection or disconnection of the collar with respect to the casing.

2,534,800
FOLDABLE BED
Marie B. Scott, St. Louis, Mo., assignor to Grace Lee Scott, St. Louis, Mo.
Application August 1, 1946, Serial No. 687,582
3 Claims. (Cl. 5—176)



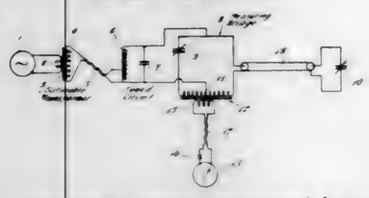
1. A bed comprising a collapsible frame including side rails and end rails hinged to the side rails, each end rail comprising two inwardly collapsible hinged sections, a leg hinged for movement at each corner of the frame in a plane substantially perpendicular to the plane of the frame, and a latch at each corner of the frame for latching the frame and legs in opened position, each latch comprising means providing a notched guide slot adjacent the corner of the frame, a pair of links, one of which is pivoted at one end to the end rail section and the other of which is pivoted at one end to the leg meeting at said corner, a pin slideable in said slot, a bracket attached to one end of the pin, said one link being pivoted at its other end to said bracket, said other link being pivotally connected to the other end of the pin.

2,534,801
ELECTRIC MOTOR CONTROL SYSTEM
Harold A. Siltamaki, Burbank, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 11, 1946, Serial No. 653,509
1 Claim. (Cl. 318—29)



A system of the type described comprising: an electronic valve having an electron-emitting cathode and anode, and control electrode means for controlling the flow of electrons from said cathode to said anode; a source of anode potential connected between said cathode and anode; primary control means changing said control electrode means from a first normal condition in which it inhibits electron flow to said anode, to a second condition in which it enables a greater electron flow to said anode; movable controlled means; a relay energized by said greater electron flow to energize said control means to move toward a new position; follow-up means actuated by movement of said controlled means for returning said control electrode means to said first normal condition as said controlled means approaches said new position; means responsive to energization of said relay for biasing said control electrode means from said second toward said first condition; and means for maintaining said bias for a predetermined interval of time following de-energization of said relay, whereby said controlled means has time to decelerate following its de-energization before being re-energized by said primary control means.

2,534,802
LIQUID LEVEL GAUGE
Stanley James Smith, London, England, assignor to West Road Co. Limited, a British company
Application April 8, 1946, Serial No. 660,583
In Great Britain April 9, 1945
2 Claims. (Cl. 175—183)

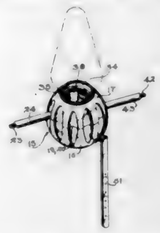


2. An electrical circuit arrangement for measuring capacity comprising a bridge network including in series four arms of which two consist of a relatively fixed condenser and the condenser to be measured and the other two arms consist of the center tapped primary winding of a transformer, an indicating instrument connected with a secondary winding on the said transformer, and means for supplying alternating current to said network comprising a saturable transformer having a primary winding for connection with a source of alternating current and a secondary winding, a circuit tuned to a harmonic of said source and connected with the secondary winding of said saturable transformer, and means connecting said circuit across the bridge network for supplying thereto current at the said harmonic frequency.

2,534,803
POWER TRANSMISSION FLUIDS
William Percival Smith and Howard John Wilks, Leamington Spa, England, assignors to Automotive Products Company Limited, Leamington Spa, England
No Drawing. Application April 22, 1947, Serial No. 743,208. In Great Britain January 11, 1946
8 Claims. (Cl. 252—79)

1. A fluid for transmission of power consisting of 30 volumes of the ricinoleic acid ester of the monoethylether of ethylene glycol, and 70 volumes of the monoethyl ether of ethylene glycol.

2,534,804
ELECTRIC LIGHT SOCKET
Anthony Tiscione, Brooklyn, N. Y.
Application January 24, 1947, Serial No. 723,909
10 Claims. (Cl. 173—358)



1. An electric socket comprising a cap of dielectric material having a threaded recess extended in from its top face to receive the threaded screw base of an electric lamp and a plug depending from its bottom face, a receptor of dielectric material having a chamber extended in from its top face to receive said plug when said cap is superimposed on said receptor, said cap being formed with a concentric recess extended through said plug and communicating with said threaded recess, a concentric cylindrical post extending vertically from the base wall of the chamber of said receptor to have the bared section of an electric conductor extended across the top end thereof to press the bared section upward through said concentric recess into position at the bottom of said threaded recess when said cap is engaged in position on said receptor to make electrical contact with the end contact of the screw base of the lamp, said threaded recess having its side wall at one side thereof interrupted by a recess which extends downward through said plug offset from said concentric recess, and a second post extending vertically from the base wall of said chamber to have the bared section of a second electric conductor extended across the top end thereof and at a location to enter said latter-mentioned recess and press the bared section of said second conductor upward through said latter-mentioned recess when said cap is engaged in position on said receptor to make electrical contact with the shell contact of the screw base of the lamp.

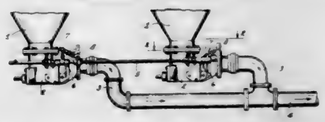
2,534,805
COATED ABRASIVE ARTICLES AND BACKINGS FOR SUCH ARTICLES
Donald A. Waterfield, Brunswick, N. Y., assignor to Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts
Application March 10, 1947, Serial No. 733,614
9 Claims. (Cl. 51—297)

1. A coated abrasive having a laminated backing and abrasive grits adhesively attached thereto, comprising at least two laminae in the backing adhesively united with a modified adhesive, the basic adhesive of which expands with gain of moisture and contracts with loss of moisture, said basic adhesive being softenable by heat, the said modified adhesive being the said basic adhesive modified with a substantial percent by volume of an inert, relatively non-absorbent, relatively non-fibrous filler, said filler being in a comminuted state and not more than substantially 35 percent by weight of said filler remaining on a 270 mesh screen having a mesh opening of 53 microns and the finer not less than substantially 65 percent by weight of said filler which passes the said screen having an average surface diameter in the range of substantially 5.5 to 40 microns, said filler being present in amount of about 25% to about 45% by volume to substantially lower the rate at which the said modified adhesive expands with gain of moisture or contracts with loss of moisture as compared with the rate at which the said basic adhesive expands with gain of moisture or contracts with loss of moisture and to materially increase the heat resistance and raise the temperature of softening of the said modified adhesive as compared with the same properties of the said basic adhesive, whereby the said coated abrasive is rendered more resistant to delamination by heat and strains encountered in use and has improved curling characteristics as compared with a coated abrasive similarly made but in which the laminating adhesive is the said unmodified basic adhesive.

2,534,806
COATED ABRASIVE ARTICLES
Charles S. Webber, Loudonville, and William F. Timmer, Cohoes, N. Y., assignors to Behr-Manning Corp., Troy, N. Y., a corporation of Massachusetts
Application July 18, 1947, Serial No. 761,750
8 Claims. (Cl. 51—298)

1. A coated abrasive comprising a flexible backing element, a coating of abrasive grains anchored thereon by an abrasive grit-binding adhesive bond, said adhesive bond comprising layers, one of which is a making coat and anchors the abrasive grain coating to the backing, and another of which is superimposed upon and among the grains as a sizing coat, the said adhesive bond comprising starch-derived adhesive material, an inert, relatively non-absorbent, relatively non-fibrous filler, said filler being in a comminuted state and not more than substantially 35 percent by weight of said filler remaining on a 270 mesh screen having a mesh opening of 53 microns and the finer not less than substantially 65 percent by weight of said filler which passes the said screen having an average surface diameter in the range of substantially 5.5 to 40 microns, said filler being present in the bond to the extent of about 25 percent to about 55 percent by volume of the dried adhesive bond, and a water soluble amino-aldehyde resin adapted to strengthen the base mixture of amylaceous adhesive and filler, and said starch-derived adhesive being present to the extent of at least about 75% by weight of the sum of the weights of the dried adhesive constituents of the adhesive layer, said starch-derived adhesive having a viscosity at 35% solids and 100° F., after heating to 140–180° F., ranging from 100 cps. to 35,000 cps. and a viscosity at 140° F. ranging from 600 to 20,000 cps. and a viscosity at 12½% solids, measured by the procedure of the National Association of Glue Manufacturers for glue, ranging from 25 to 138 seconds, and a solubility ranging from 25% to 95%, said solubility being defined and determined by dispersing 25 g. of the starch-derived adhesive in 500 cc. of distilled water at 70° F., permitting the undispersed solids to settle overnight, pipetting off 50 cc. of the clear supernatant solution, evaporating the solution to dryness, drying the residue to constant weight at 218° F., dividing the weight thus obtained by the factor 2.5 and multiplying the quotient by 100.

2,534,807
METHOD AND APPARATUS FOR HANDLING FINE SOLIDS
Frank B. Allen, Lower Marion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 19, 1945, Serial No. 583,489
7 Claims. (Cl. 302—52)

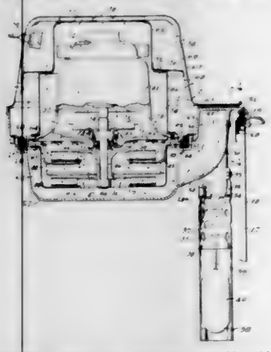


1. The method of handling fine solids which comprises the steps of continuously collecting fine solids in a pile in a chamber in which a small vacuum exists, aerating and fluidizing said solids by introducing substantially dry gas under a low positive pressure into the interior of the pile, periodically connecting a space in said chamber outside of said pile of fluidized fine solids with a conduit in which a greater vacuum exists, and utilizing the resultant increased pressure differential which exists across said pile to induce a flow of gas through said pile of fluidized solids and entrain and carry such solids into said conduit.

2,534,808
SUCTION CLEANER
Julius J. Bevington, Jr., and Eugene Boros, Toledo, Ohio, assignors to The B & R Manufacturing Company, a partnership composed of Julius J. Bevington and Edward N. Rosenberg, both of Toledo, Ohio
Application December 7, 1948, Serial No. 63,994
3 Claims. (Cl. 183—37)

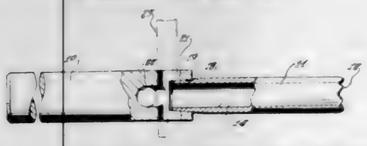
1. A suction cleaner comprising an upright receptacle, an inlet in the side walls of said receptacle through which either wet or dry dirt may pass into the receptacle, a cover tightly fitting the top of said receptacle and providing a closure therefor, said cover having side perforations, a suction producing unit carried by said cover, said suction unit comprising a housing, an electric motor within said housing, a partition wall carried by said housing, a motor shaft extending

through said partition wall and bearing therein, suction producing fan means on said shaft disposed on the opposite side of said partition wall, a laterally extending flange connected to said housing, fasteners connecting said housing to said flange, annular wall means forming a part of said cover, a rubber ring carried by said annular wall means and receiving the edge portion



of said lateral flange, thereby resiliently to support said suction unit, means forming a part of said cover providing a passage from said receptacle to said suction unit, a shell interposed between said housing and cover, and means providing ports and passages to vent air from said suction producing fan means to the space between the shell and cover and thence to the outside through the cover perforations.

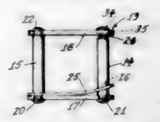
2,534,809
MASONRY DRILL
Sam Brown, Brooklyn, N. Y., assignor to Sterling Drill Company, New York, N. Y., a partnership of New York
Application December 30, 1947, Serial No. 794,677
9 Claims. (Cl. 255—64)



1. A masonry drill comprising a handle having a tapered opening at its forward end, drill means removably secured and tightly fitted within the tapered opening, said drill means including a center passage for receiving loosened material and for delivering the same outwardly thereof to the handle, said drill means being also provided with a cutting element at one end thereof, said cutting element being adapted to direct loosened material inwardly into said center passage therein, said handle having an opening extending transversely in the handle to receive the loosened material and discharge it laterally through the handle and outwardly thereof.

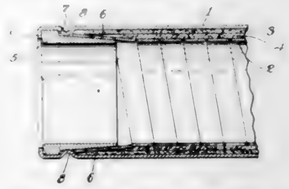
2,534,810
LOCK FOR DETACHABLE STRAP HANDLES
William Castedello and Walter G. Lohmeyer, Jr., Stamford, Conn., assignors to The Kalart Company Inc., Stamford, Conn.
Application August 2, 1946, Serial No. 688,043
5 Claims. (Cl. 24—265)

1. A lock of the type described for releasably locking together two members, said lock comprising a pair of cross pins, each of said cross pins being arranged to be connected with one of the two members to be locked together, a first side bar fastened at each end to one of said cross pins, a second side bar pivotally connected at one end to one of the cross pins and having an open slot at the other end arranged to receive the second cross pin, said second cross pin having



an enlarged head portion protruding beyond the pivotal side bar when the second cross pin is received in the slot, and spring means associated with the second cross pin for urging the pivotal side bar against the said head portion when one of said members is fastened to the second cross pin between the spring means and the pivotal side bar, thereby securing the pivotal side bar to the second cross pin.

2,534,811
SILENT STOCK TUBING
Webster D. Corlett, Jr., Chicago, Ill., assignor to Corlett-Turner Co., Chicago, Ill., a corporation of Illinois
Application September 3, 1946, Serial No. 694,581
9 Claims. (Cl. 138—64)



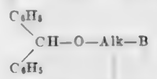
1. In combination in a work supporting member, a wound and compressed metal liner, and means for supporting said liner comprising a rigid housing of greater diameter than the liner, the liner being mounted therein, and sound absorbent material positioned between the liner and the housing, and means for securing the liner in position within the housing, said means including a hollow insert, said insert having a tapered exterior driven into the liner at its end and expanding it, said insert shaped with an external stop member, said housing being shaped to fit against said stop member and against the end of said liner, said housing being also shaped about the outer end of said insert and holding said insert in fixed position.

2,534,812
WATERCRAFT
John H. Curry, Viola, Mo.
Application October 18, 1946, Serial No. 704,052
1 Claim. (Cl. 114—66.5)

A hydroplane, comprising a wide low hull constructed in the form of a true airfoil section, transversely spaced sponsons secured to the forward end of the hull to support such forward end as the hydroplane travels over the water, an elongated depending tube secured to the bottom of the hull adjacent to its rear end and at the transverse center of the hull, an elongated reciprocatory shaft mounted within the tube and projecting beyond the bottom end of the tube, a spring mounted within the tube and engaging the shaft to shift it downwardly automatically when the rear end of the hull is elevated, and a substantially flat planing plate pivotally secured to the bottom end of the shaft and extending longitudinally forwardly and rearwardly of the shaft for contacting the surface of the water irrespective of the elevation of the rear end of the hull.

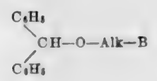
2,534,813
8-HALOXANTHINE SALTS OF CYCLIC-AMINOALKYL BENZOHYDRYL ETHERS AND THE PRODUCTION THEREOF
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application January 21, 1950, Serial No. 139,970
12 Claims. (Cl. 260—253)

1. A salt of a basic ether of the formula



with an 8-haloxanthine containing a hydrogen atom in the 7-position, wherein Alk is a lower alkylene radical and B is an amino radical selected from the class consisting of morpholino, piperidino, cyclopentylamino, and cyclohexylamino radicals and lower alkyl derivatives thereof.

7. The process of producing a salt of a basic ether and an 8-haloxanthine containing a hydrogen atom in the 7-position, said basic ether having the formula

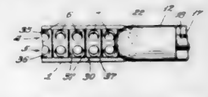


wherein Alk is a lower alkylene radical and B is an amino radical selected from the class consisting of morpholino, piperidino, cyclopentylamino, and cyclohexylamino radicals and lower alkyl derivatives thereof, which comprises mixing a member of the group consisting of an 8-haloxanthine which contains a hydrogen atom in the 7-position and the ammonium salt thereof, with said basic ether, dissolving the mixture in an inert water-soluble organic solvent at elevated temperature and separating the salt thus formed.

2,534,814
PRODUCTION OF ASBESTOS-RUBBER COMPOSITIONS
George D'Olier, Devon, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey
No Drawing. Application August 7, 1948, Serial No. 43,160
8 Claims. (Cl. 260—41.5)

1. In a method of forming asbestos-rubber compositions and wherein rubber is admixed with fibrous asbestos only in the form of a latex of a rubbery material from the group consisting of natural rubber, butadiene-styrene copolymer, butadiene-arcylonitrile copolymer and polychloroprene, the steps which comprise inhibiting the coagulation of said latex by first thoroughly coating and admixing the asbestos fibers with a solvent for said rubbery material and then adding and admixing said latex therewith.

2,534,815
CARRIER FOR CAPSULES AND THE LIKE
Mack R. Fields, Chicago, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application May 22, 1947, Serial No. 749,709
4 Claims. (Cl. 206—56)



2. A carrier of the class described, comprising a body member having a plurality of pairs of chambers arranged in a row and opening to one side of the body so as to permit the insertion and removal of articles into and from said chambers, a resilient material, channel-shaped retainer embracing the chambered portion of said body member, the median plate portion of said retainer overlying said rows of chambers and the free ends of the side legs of said retainer being anchored to said body so as to yieldingly support said plate portion for lateral movement transversely of said rows of chambers, said retainer being transversely slotted to provide sections respectively associated with pairs of said chambers, and the plate portions of said sections being provided with pairs of openings arranged in oppositely offset relation to the respective chambers of the associated pair of chambers, each of said sections being thereby independently shiftable in opposite directions to effect selective alignment of its openings with the associated chambers, and cap means removably mounted on said body for enclosing said retainer to thereby normally protect the same against forces which might tend to shift said sections as aforesaid.

2,534,816
BARREL BEDDING BROACH
Rudolf A. Hagen, Chicago, Ill.
Application March 27, 1947, Serial No. 737,622
2 Claims. (Cl. 30—314)

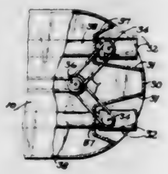
1. A barrel bedding broach comprising a shank, an offset member extending laterally from the end

thereof and making an obtuse angle with the shank, a cup-shaped cutting tool in the form of a truncated cone having a bottom wall and an outwardly flared circumferential side wall, said circumferential side wall being sharpened along the periphery of its outer edge to provide a cutting edge and a cylindrical surface substantially parallel with the axis of said cone, said bottom wall being centrally apertured, a holding screw extending through said aperture, said screw having a head portion in engagement with said bottom wall and with the entire inner peripheral portion of said side wall adjacent said bottom wall and entirely filling that part of the cup in which it is located, said screw head having a surface generally perpendicular to the axis of the cone, the end of the offset member being apertured and threaded to permit penetration by the screw to hold the cup interchangeably on opposed faces of the offset member.

2,534,817

HYDRAULIC JET PROPULSION FOR SHIPS

John F. Hedden, New York, N. Y.
Application March 2, 1946, Serial No. 651,568
1 Claim. (Cl. 115—12)

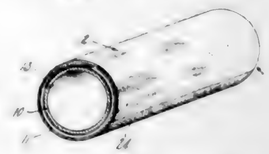


Hydraulic jet propulsion for a marine vessel including a hull and comprising pipes extending longitudinally of said vessel and substantially parallel to the sides thereof, the opposite ends of said pipes having water inlets and outlets fore and aft of the vessel, respectively, water propelling turbine wheels in said pipes intermediate the ends thereof, independent motor means for operating each of said wheels to force water rearwardly through said pipes, a water accelerating member at the outlet end of each of said pipes, said hull having a plurality of cavities formed in the aft end thereof, said cavities being flared outwardly toward said aft end, and each of said accelerating members being mounted in one of said cavities, each of said water accelerating members comprising a jet tube having a plurality of passages extending therethrough and being substantially parallel to the longitudinal axis of said tube, the intake ends of said passages being flared, means for swinging said accelerating members in a horizontal plane within their respective cavities for changing the direction in which the jets discharge from said vessel, said swinging means comprising a vertically mounted pivot pin extending transversely across each of said cavities, said accelerating members being rigidly secured to their respective pins adjacent their intake ends, a pulley mounted on one end of each of said pins, a pulley shaft mounted interiorly of said hull, a plurality of spaced pulleys fixedly mounted on one end of said shaft, each of said pulleys on said pins being disposed in a plane common to one of said spaced pulleys, belt means interconnecting each pair of pulleys in said common plane, and means for rotating said shaft whereby the direction of the jet discharge is varied to change the course of said vessel.

2,534,818

FINISHING TREATMENT FOR ASBESTOS IRONER ROLL COVERS

George C. Holroyd and Joseph M. Almand, Hogansville, Ga., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 18, 1949, Serial No. 71,406
1 Claim. (Cl. 117—126)

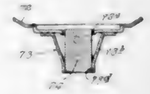


A heat resistant porous fabric cover for ironer rolls, comprising a closely woven fabric formed of asbestos warp and weft yarns and the fabric being impregnated with an intermixture of between 10 and 40% of the weight of the untreated fabric of a melamine-formaldehyde thermosetting resin and between 1 and 5% of the weight of said untreated fabric of a polymerized methyl methacrylate thermoplastic resin, so that these intermingled resins give the fabric a smooth porous surface and good wear-resisting properties and also good tear-resisting properties.

2,534,819

MAGNETIC STRUCTURE FOR SPEAKERS

George S. Holly, Chicago, Ill., assignor, by mesne assignments, to Jensen Manufacturing Company, Chicago, Ill., a corporation of Nevada
Application February 27, 1947, Serial No. 731,291
9 Claims. (Cl. 179—115.5)



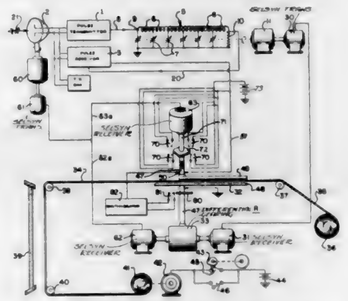
1. A magnetic structure for speakers comprising a cylindrical permanent magnet and a frame of magnetic material adapted to provide a magnetic circuit including said magnet, said frame comprising an open-ended tubular element of circular cross section coaxial with said magnet and having a cylindrical portion at one end thereof, said magnet having one end portion thereof held within the cylindrical portion of the tubular element by frictional engagement with the side walls thereof, said frame approaching but stopping short of the cylindrical surface of the magnet at the end thereof remote from that held by the cylindrical portion of said tubular element to form an annular air gap in the magnetic circuit.

2,534,820

RADAR AZIMUTH AND DISTANCE INDICATION RECORDER

Hyman Hurvitz, Washington, D. C., assignor, by direct and mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y., a corporation of New York, and one-half to Marcel Wallace, doing business as Panoramic Laboratories, East Port Chester, Conn.
Application May 20, 1947, Serial No. 749,192
10 Claims. (Cl. 343—11)

10. In combination, a directional range scanning distance measuring equipment comprising a normally inoperative pulse receiver, means for rendering said receiver operative for predetermined short intervals of time, means for scanning range to successively determine the presence of remote objects at a succession of ranges by continuously varying the time positions of said short intervals of time, a scanning recorder for periodically scanning successive angularly displaced substantially radial lines, means for synchronizing range scanning of said range scanning dis-

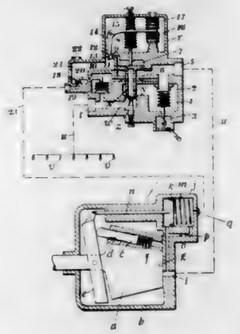


tance measuring equipment with scanning of each of said radial lines by said recorder, means for varying the directivity of said distance measuring equipment, means for varying the angular position of said radial lines in correspondence with said directivity, and means for applying pulses received by said receiver to said recorder for recording thereby.

2,534,821

CONTROL MEANS

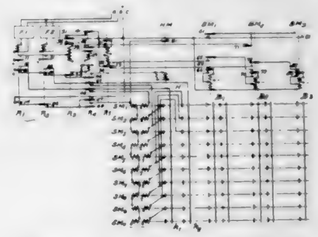
Richard Joseph Ifield, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application December 6, 1946, Serial No. 714,582
In Great Britain October 23, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 23, 1965
6 Claims. (Cl. 137—153)



1. Means for controlling liquid fuel flow, comprising in combination in a hollow body part having an inlet and an outlet for liquid fuel under pressure, passageways through which liquid fuel can flow from said inlet to said outlet, and which are provided with a pair of coaxial orifices for establishing a pressure difference between said inlet and outlet, a movable member for varying the effective areas of said orifices, means responsive to atmospheric pressure for imparting movement to said member, and a manually operable valve for controlling the flow of liquid fuel from said inlet to one of said orifices.

2,534,822

CONNECTING DEVICE FOR TELEPHONE EXCHANGES USING A REGISTER

Anton Christian Jacobaeus, Stockholm, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application August 10, 1945, Serial No. 610,009
In Sweden November 17, 1944
1 Claim. (Cl. 179—16)

In a telephone system of the type in which both code impulse series and normal impulse series may appear on the same line, a register, two impulse relays in said register selectively operated by impulses of two kinds appearing in an impulse series received in the register from a line connected to said register, a cross-bar switch in said register, a plurality of selecting magnets and a plurality of operating magnets in said cross-bar switch, a slow-releasing control relay connected in a circuit arranged to be closed by either of said two impulse relays when operated, said slow-releasing control relay including means holding the same actuated until the end of an impulse series, an auxilary relay connected to said control relay for actuation in the pause between the first and second impulses of an impulse series on said line, means for holding said auxiliary relay actuated until the end of each impulse series, an auxiliary operating bar in said switch and a magnet controlling said bar, an operating circuit for said magnet including contacts on said auxiliary relay and a first break contact on each of said impulse relays, whereby said magnet is released upon occurrence of each impulse, and is operated after each impulse, two rows of contacts on said operating bar, one contact in each of said rows connected with said respective selecting magnets, a circuit including a battery and a make contact on one of said impulse relays and a break contact on said auxiliary relay for operating one of said selecting magnets, another circuit including a battery and a make contact on the other of said impulse relays and another break contact on said auxiliary relay for operating another one of said selecting magnets, a second break contact on each of said impulse relays, a holding circuit common to all of said selecting magnets and including said second break contacts connected in series, a break contact on the operating magnet for said auxiliary operating bar connected in parallel to said second break contacts on each of said impulse relays, a circuit including said make contacts, a battery, a contact in one of said contact rows and a winding on one of said selecting magnets, said last-named circuit thereby being closed during each impulse except the first in said series of impulses, and means responsive to the release of said control relay for operating one of said operating magnets at the end of said impulse series.

2,534,823

1-KETO-2-HYDROXYMETHYLENE-7-OR-1,2,3,4-TETRAHYDROPHENANTHRENES

William S. Johnson, Madison, Wis., Jack W. Petersen, Oakland, Calif., and Carl David Gutsche, St. Louis, Mo., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Original application October 1, 1946, Serial No. 700,380. Divided and this application November 13, 1947, Serial No. 785,821
3 Claims. (Cl. 260—590)

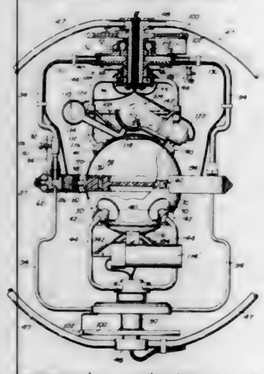
1. A 1-keto-2-hydroxymethylene-7-OR-1,2,3,4-tetrahydrophenanthrene, in which R is a member of the class consisting of lower-alkyl groups and lower-aralkyl groups.

2,534,824

GYROSCOPIC NAVIGATIONAL DEVICE

Meredith Jones, Seattle, Wash.; Anna A. Jones, executrix of said Meredith Jones, deceased, assignor to Anna A. Jones

Application July 9, 1947, Serial No. 759,848
22 Claims. (Cl. 74—5.6)



1. In a gyroscopic navigational device, the combination of a cage, pivot means supporting said cage, a gyroscopic element encompassed by and freely rotatable universally within said cage, and fluid jet means carried by said cage and operable to project fluid forcibly against said element to maintain it in a predetermined positional relation with respect to said cage in various rotative positions of said cage, said fluid jet means including a plurality of jet nozzles distributed universally symmetrically about said element and operable to project fluid jets against the surface of said element in such different directions and with such force in various rotative positions of said cage as to balance the force of gravity acting on said element in such various rotative positions, and to maintain said element in such positional relation with respect to said cage.

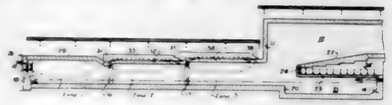
2,534,825

SMELTING FURNACE

Levi S. Longenecker, Mount Lebanon, Pa.

Original application September 16, 1943, Serial No. 502,581. Divided and this application November 23, 1945, Serial No. 630,265
3 Claims. (Cl. 266—10)

3. In a horizontal reverberatory type smelting furnace having a smelting section and an exhaust duct leading from the outlet of such section, a settling chamber below such duct and having its floor positioned below the level of the floor of the smelting section, a refractory wall extending rearwardly from the furnace front wall over the settling chamber and between such



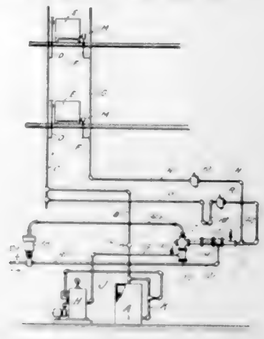
chamber and such duct, and means independent of the heating means for the smelting section for heating the settling chamber.

2,534,826

VACUUM STEAM HEATING SYSTEM AND METHOD OF OPERATING THE SAME

Ronald J. McKinnon, Bedford Hills, N. Y.

Application December 31, 1946, Serial No. 719,436
7 Claims. (Cl. 237—9)



1. In a vacuum steam heating system including a boiler, a vacuum pump, means for supplying condensed water from the vacuum pump to the boiler, a main steam line from the boiler, a steam riser connected to the main steam line, radiators connected to the riser, a condensate return riser connected to the radiators, a condensate return main connected to the condensate return riser and to the vacuum pump, return drip piping connecting the condensate return riser and the condensate return main, and steam main drip piping connected to the steam riser below the main steam line and to the condensate return main, the improvements which consist of a thermostatic trap and air vent in each of the return drip piping and in the steam main drip piping, a water seal in the steam main drip piping intermediate the steam riser and the thermostatic trap and air vent for preventing short circuiting of steam from the main steam line to the condensate return main before the steam passes through the radiators, and instrumentalities in the condensate return main in advance of the vacuum pump for maintaining substantially constant the temperature of the returning condensate, thereby maintaining a substantially constant vacuum through the condensate return riser and mains.

2,534,827

DOLL DRESS

Elizabeth L. McTammany, Spartanburg, S. C.

Application February 5, 1947, Serial No. 726,465
1 Claim. (Cl. 2—75)

A doll dress cutout comprising a fabric sheet, a garment outline formed between the margins of said sheet by hemstitching, and a plurality of the straps disposed in overlying position with respect

to the outlined garment, the ends of said straps being secured to the sheet at selected points along the garment outline by said hemstitching whereby cutting of the sheet through the hemstitching will sever the outlined garment from the sheet with the straps secured by the hemstitching to the margins of the garment, said hemstitching extending inwardly from a marginal edge of the

outlined garment and terminating in a circular centrally disposed line of hemstitching, at least one of said straps overlying and disposed at right angles to said inwardly extending hemstitching at a point near the centrally disposed hemstitching, whereby cutting of the fabric sheet along the line of said latter named hemstitching divides said one strap into a pair of straps.

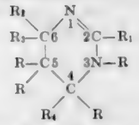
2,534,828

ASPHALT BITUMINOUS BONDING COMPOSITION AND PROCESS OF PREPARATION

Lloyd J. Mitchell, Berkeley, and Harry J. Sommer, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 14, 1948, Serial No. 44,404
6 Claims. (Cl. 106—273)

1. A bituminous composition comprising an asphalt and 0.10–5% by weight of a substituted pyrimidine having the general formula



wherein each each R is a substituent of the group consisting of the hydrogen atom and alkyl substituents, at least one of which has at least 10 carbon atoms.

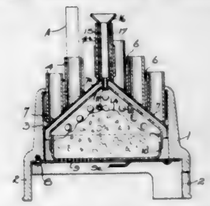
2,534,829

CIGARETTE HUMIDIFIER

Gustandy Otallah, Detroit, Mich., assignor of fifteen per cent to Allie Shaheen, Detroit, Mich.

Application August 16, 1947, Serial No. 769,007
1 Claim. (Cl. 312—31)

A humidifier including a base, a hollow member the upper portion of which is conical both inside and out resting upon said base, tubular cigarette holders mounted in and projecting vertically upward from the conical portion of the member into each of which a cigarette is adapted to fit so that the lower edge of each cigarette makes substantially a point contact with the outer conical face of the member and is supported thereby whereby substantially the entire underside of the cigarette is spaced above said member, a water pan supported on the base within the hollow member, the conical portion of the member having substantially vertical apertures



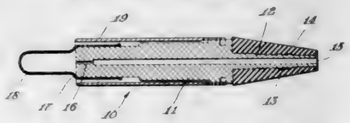
therethrough opening into the undersides of the tubular supports for the upward flow of moist air therethrough and a conical removable cover mounted on the water pan having its conical face parallel with and spaced beneath the conical underside of the said hollow member, said cover having openings formed therethrough for the passage of moist air upward through the vertical apertures, and said cover being adapted to exclude tobacco dropping from the cigarettes to the water pan.

2,534,830

LEAK DETECTOR

Frank G. Philo, Long Beach, Calif.

Application September 13, 1947, Serial No. 773,842
3 Claims. (Cl. 73—40)



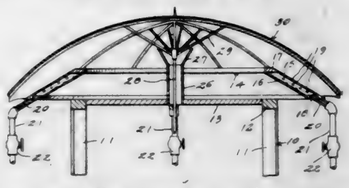
1. A device for detecting leaks in tubes by indication of sub-atmospheric pressure therein comprising a body, a generally frusto-conical resilient tip firmly transfixed by one end of said body and a flexible sac attached to the other end of said body portion, said body portion having a channel extending longitudinally therethrough and communicating with the interior of said flexible sac through a restricted opening.

2,534,831

CIRCULAR STEAMING UNIT FOR UMBRELLAS

Alvin F. Polan, Baltimore, Md.

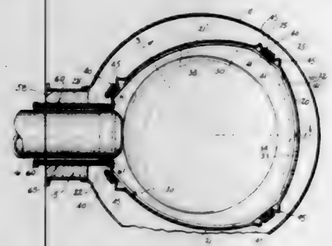
Application January 13, 1947, Serial No. 721,752
2 Claims. (Cl. 68—6)



1. An umbrella steaming unit comprising a stand, a centrally disposed upwardly opening tu-

bular support carried by said stand adapted to receive the stick of an umbrella, a steam supply main, a steam ejector carried by said stand about said support and connected to said main at circumferentially spaced points, said steam ejector comprising a hollow frusto-conical body having downwardly divergent side walls, said walls formed with upwardly and outwardly opening steam discharge openings for discharging steam against the under side of the umbrella, and a funnel shaped member carried by said support with which the rib braces of the umbrella are engageable for supporting the open umbrella on said unit.

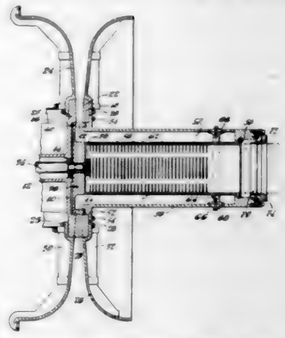
2,534,832
FABRICATED REFRACTORY METAL FIREBOX
Carl E. Schinman, Seattle, Wash.
Application September 20, 1947, Serial No. 775,202
2 Claims. (Cl. 158—1)



1. A firebox structure of the character described comprising a plurality of rectangular wall forming sections of sheet metal adapted to be joined edge to edge, by vertical joints, to form a substantially cylindrical housing; each of said wall forming sections being formed with a longitudinal bead parallel with and adjacent each vertical edge and having each edge formed in a back-turned hook-like flange parallel to said bead, and leg-forming strips, with their opposite, longitudinal edges turned back in hook-like flanges, applied to the adjacent edge flanges of adjoining sections in a slip joint assembly and disposed between the beads of the joined sections, said leg-forming strips being longitudinally adjustable and adapted to be extended below the lower edges of assembled sections as supporting legs for the said firebox structure and a bottom wall fitted in the base of said housing and some of the side wall sections having inturned flanges at their lower edges for support of said bottom wall.

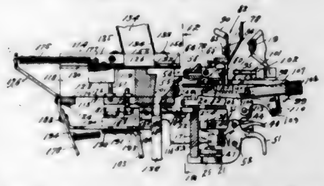
2,534,833
SOUND GENERATOR
Gordon C. Seavey, Arlington, and Caperton B. Horsley, Westwood, Mass., assignors to Ultrasonic Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 8, 1948, Serial No. 48,234
12 Claims. (Cl. 116—137)

3. A sound generator comprising a rotor having a chamber communicating with a series of peripheral slots, a stator surrounding the rotor and having a series of ports disposed in position to be opened and closed in unison as the rotor turns, a slotted conduit disposed co-axially with the rotor, walls forming an annular chamber surrounding the conduit and communicating with the rotor chamber, and an adjustably mounted end wall closing said annular chamber, said wall being movable to reflect sound waves of predetermined



range of frequencies to the rotor slots in phase with the opening of the stator ports by the rotor.

2,534,834
AUTOMATIC PLATE INSERTER AND EJECTOR FOR EMBOSSING MACHINES
Percy R. Seward, Minneapolis, Minn.
Application March 22, 1948, Serial No. 16,238
24 Claims. (Cl. 197—6.6)



20. In a machine of the class described, a track, a carriage arranged to run on the track, a plate holder mounted on the carriage for compound projecting and tilting movements, yielding means normally holding the plate holder retracted, automatic means actuated by the carriage for positioning and locking a plate relative to the plate holder while holding a plate under the positioned plate to be released, manually controlled means having an initial movement for operating the plate holder to release a plate held thereby, and a final movement for tilting the plate holder, and other manually operated means for projecting the plate holder to receive the positioned plate.

2,534,835
NICOTINE COMPOUNDS CONTAINING UNIVALENT COPPER
Claude R. Smith, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Original application December 28, 1945, Serial No. 637,763. Divided and this application April 11, 1949, Serial No. 87,371
3 Claims. (Cl. 260—270)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A fluorescent, crystalline cuprous nicotine compound selected from the group represented by the formulae

$(Cu^{+}A)_x.C_{10}H_{14}N_2$ and $(Cu^{+}A)_x.C_{10}H_{14}N_2.HA$

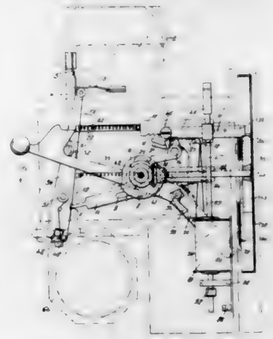
wherein x is an integer not exceeding 2 and A is an anion selected from the group consisting of

$-Cl$, $-Br$, and $-I$, and wherein each A in the second-named formula is identical to the other A of that same formula.

2,534,836
HIGH-FREQUENCY ELECTRON DISCHARGE TUBE
Maximiliaan Julius Otto Strutt, Aldert van der Ziel, and Kornelis Swier Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 12, 1946, Serial No. 682,983
In the Netherlands March 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 1, 1963
4 Claims. (Cl. 315—5)

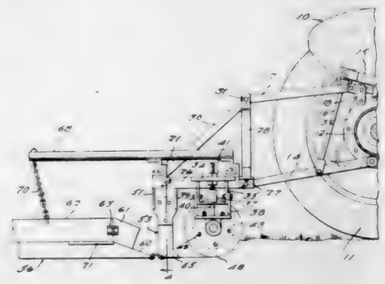
1. An electron discharge device adapted to generate or amplify oscillations of the H_0-type at a predetermined wavelength, said device comprising planar cathode, grid and anode electrodes of like rectangular shape successively mounted in spaced parallel relation, said electrodes constituting opposing surfaces of two waveguides of rectangular cross section, said grid electrode being common to both guides, the dimension of said two guides in the direction normal both to the direction of propagation in the guides and to the direction of electron flow between the cathode and anode electrodes having a value greater than a half wavelength of said oscillations in free space.

2,534,837
AUTOMATIC CAMERA WITH CUTOFF MEANS
René Maurice Traversac, Paris, France, assignor to "Parmoy," Paris, France, a French limited liability company
Application May 24, 1948, Serial No. 28,851
In France February 4, 1948
12 Claims. (Cl. 95—31)



1. In a photographic camera adapted to produce a succession of pictures on a film through step by step operation, the provision of a control system comprising film advancing means for controlling the intermittent progression of the film, a shutter cooperating with the film, a motor controlling the operation of the shutter and of the film advancing means, a cutter adapted to cut the film, a catch system adapted to be controlled by the film advancing means for each taking of a picture, a member controlled by the catch system to advance step by step through a predetermined path and a circuit feeding the motor, a switch in said circuit lying in the path of the catch controlled member to be opened thereby when said member has reached the end of its path, elastic means urging the catch controlled member into its starting position, hand operated means for releasing the catch operated member at any desired moment and a further hand operated switch adapted to close the motor circuit.

2,534,838
SOD CUTTER
Sydney T. Wall, Ouachita, La.
Application February 1, 1949, Serial No. 73,917
6 Claims. (Cl. 97—226)

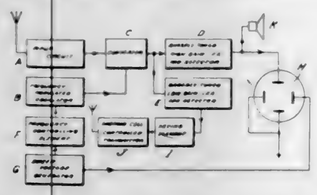


2. A sod cutter comprising an elongated rectangular frame, apertured lugs and a bracket on said frame for attaching the latter to a towing tractor, a pair of adjustable journal brackets secured to and depending from said frame in spaced-apart relationship in one end of the latter, a rotatable cutter journaled in said brackets at the bottom ends of such brackets, a stirrup-shaped cutter secured to and depending from said frame to the rear of said rotatable cutter, a sled pivotally connected to said stirrup-shaped cutter in trailing relationship to the latter, and a diagonal guide secured on the upper side of said sled for imparting lateral movement to a strip of sod severed by said rotatable and stirrup-shaped cutters.

2,534,839
RADIO ALTIMETER AND PANORAMIC RECEPTION SYSTEM
Marcel Wallace, New York, N. Y., assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y., a corporation of New York
Original application September 21, 1940, Serial No. 357,814, now Patent No. 2,378,604, dated June 19, 1945. Divided and this application April 14, 1945, Serial No. 588,395
25 Claims. (Cl. 343—112)

1. An instrument landing system for aircraft, comprising a radio transmission system at an airport, said radio transmission system including a field localizer beacon for providing beacon signals establishing a predetermined directional glide path in accordance with a predetermined law of variation of altitude of points along said glide path with distance along said glide path, said transmission system comprising means for varying the frequency of said signals in accordance with ambient atmospheric pressure at said airport, and a frequency scanning receiver lo-

cated aboard said aircraft for receiving said beacon signals, said receiver comprising automatic means for maintaining the tuning thereof at a frequency corresponding with its own local atmospheric pressure, means responsive to signals derived from said receiver for indicating di-

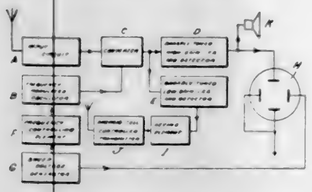


rection of said glide path, and means for continuously converting the difference of said transmitted frequency and the tuned frequency of said receiver into an indication of altitude of said receiver and for determining the magnitude of said indication in accordance with variations of field strength deriving from said glide path.

2,534,840
RADIO SYSTEM FOR PROVIDING VERTICALLY SEPARATED AIRWAYS

Marcel Wallace, New York, N. Y., assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y., a corporation of New York

Original application September 21, 1940, Serial No. 357,814, now Patent No. 2,378,604, dated June 19, 1945. Divided and this application April 14, 1945, Serial No. 588,396
25 Claims. (Cl. 343—112)



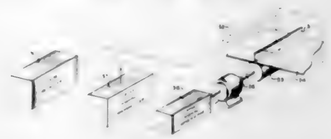
1. In a system for indicating a predetermined range of vertical levels along an airway, a plurality of transmitters installed along said airway, each transmitter having means for generating and transmitting signals, means for varying a value of an information bearing characteristic of each of said signals in accordance with variations of ambient atmospheric pressure, and a receiver for receiving said signals carried aboard an aircraft, said receiver comprising means for automatically conditioning said receiver to receive said signals only while said signals have a predetermined range of values of said characteristic determined in accordance with the vertical level of said receiver.

22. A system for guiding a craft with respect to a selected one of a plurality of radio beacons, comprising, means for transmitting from each beacon predetermined discrete pulse signals of different repetition rates, means for receiving at said craft energy from said beacon stations, means for selecting from said received energy one of said signals selected in accordance with its pulse repetition rate, and means for providing a directive signal indication in response to said selected one of said signals.

2,534,841
TELEMETRIC PULSE TIME POSITION RECORDER

Marcel Wallace, Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y., a corporation of New York

Application April 25, 1947, Serial No. 743,939
8 Claims. (Cl. 346—33)

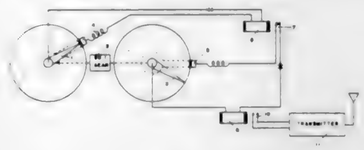


2. In combination, a plurality of distinct and mutually space separated pulse generating means, means responsive to each of a plurality of measured values for determining time positions of pulses generated by different ones of said plurality of distinct pulse generating means, a single recorder having a record receiving surface and a line scanning marking means for scanning periodically across said record receiving surface in successive lines, means for energizing said line scanning marking means to mark during said line scanning at times corresponding with respect to a common zero of time with the time positions of said pulses, and means for commonly synchronizing said plurality of pulse generating means and said line scanning marking means.

2,534,842
DUAL SYNCHROMETRIC SYSTEM

Marcel Wallace, East Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y., a corporation of New York

Application October 10, 1947, Serial No. 779,174
22 Claims. (Cl. 343—112)

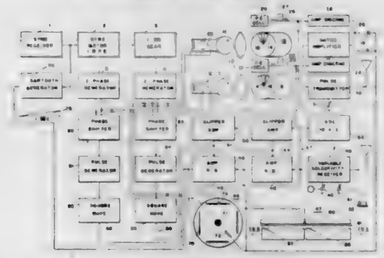


1. In combination, means for delimiting first periodic time intervals, means for delimiting a second time interval equal in duration to at least two of said first periodic time intervals, means for providing repetitive first periodic signals each at a time position within one of said first time intervals which correspond with the value of a first measurable quantity, means for providing a further signal at a time position within said second time interval which corresponds with the value of a second measurable quantity, means for selectively transmitting certain ones only of said first periodic signals selected in accordance with the time position of said further signal, and receiver-indicator means for receiving said signals transmitted by said means for selectively transmitting and for providing a composite single remote indication indicative of the values of both said first and said second measurable quantities in response to each of said certain ones only of said first periodic signals.

2,534,843
GATED DUAL SYNCHROMETRIC SYSTEM

Marcel Wallace, East Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y., a corporation of New York

Application October 24, 1947, Serial No. 781,837
43 Claims. (Cl. 343—101)

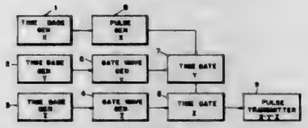


1. In combination, a first station having means for delimiting a first periodic time interval, means for delimiting a second time interval, means for providing repetitive periodic signals at time positions within said first time intervals which correspond with the value of a first measurable quantity, means for providing a signal at a time position within said second time interval which corresponds with the value of a second measurable quantity, means for transmitting at least one of said periodic signals selected in accordance with the time position of the other of said signals, a second station having means for receiving said one of said periodic signals, and comprising time gating means for selectively receiving or rejecting said one of said periodic signals in accordance with its time position within at least one of said periodic time intervals.

2,534,844
GATED TRIPLE SYNCHROMETRIC SYSTEM

Marcel Wallace, Fairfield County, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y., a corporation of New York

Application November 26, 1947, Serial No. 788,140
46 Claims. (Cl. 343—112)



1. In combination, means for generating a plurality of substantially equally time spaced pulses having each a time position with respect to a predetermined time base which is determined by the value of a first measurable quantity, means for selecting only certain of said pulses, selection being accomplished in accordance with the value of a second measurable quantity, and means for discarding only certain of said selected pulses in accordance with the value of a third measurable quantity.

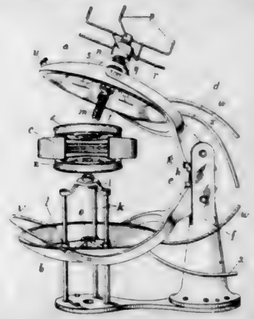
23. In combination, means for transmitting a pulse having significance simultaneously in respect to range, bearing, and altitude of an aircraft, means for receiving said pulse, and means responsive to said pulse when received for providing visual plots of range versus bearing, of altitude versus bearing, and of range versus altitude.

33. In combination, means for measuring bearing with respect to a geographic position, said means comprising an omni-directional range receiver, means for measuring distance from said position, means for measuring altitude, means for translating said bearing, said distance and said altitude into time positions of a single pulse with respect to three different time bases.

2,534,845
VULCANIZING APPARATUS

Edgar Charles Woods, Stockport, England, assignor to Henry Simon Limited, Stockport, England

Application January 6, 1948, Serial No. 699
In Great Britain January 6, 1947
7 Claims. (Cl. 18—18)

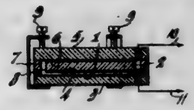


1. Tire vulcanizing apparatus of the kind referred to having a pair of levers, each lever being pivotally supported at one end at a different point upon the frame of the apparatus, supporting means upon each free end of the levers to support a mold member thereon and intermeshing gearing interconnecting the pivoted ends of the levers.

2,534,846
COLOR FILTER

Edmund Jack Ambrose, Maidenhead, Derek John Pacey, Purley, and Joseph Gerard Salmon, Heston, England, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

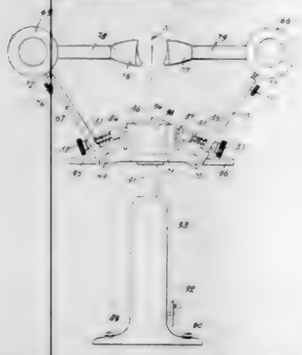
Application September 8, 1947, Serial No. 772,602
In Great Britain June 20, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 20, 1966
8 Claims. (Cl. 178—5.2)



8. A television receiver comprising an image reproducing tube having a screen upon which the received image is reproduced, a color filter comprising two surfaces so formed that when light images are transmitted between said surfaces interference effects occur so that light images can be transmitted which have a color different from that of the incident light, and means are provided so arranged as to be capable of varying the separation of said surfaces under the control of applied electrical signals so that the color of the transmitted light can be varied under the control of said signals, said color filter

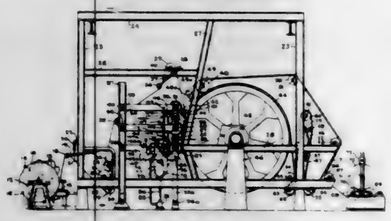
arranged to transmit light from said screen, and means for applying electrical signals to said filter so as to vary the separation of said surfaces and cause filter to transmit different color images successively from said screen.

2,534,847
DIRECTIONAL SOUND DETECTOR
Jean Auscher, Paris, France
Application July 30, 1947, Serial No. 764,681
In France March 13, 1940
16 Claims. (Cl. 181—26)



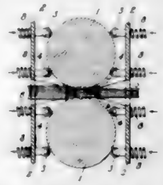
1. A sound detector comprising in combination a stationary support, a movable frame rotatably carried thereby, means adapted to register the angular setting of said movable frame with respect to the stationary support, two hollow elongated searching members mounted on the movable frame for rotation therewith and symmetrically located with reference to the axis of rotation of the latter, two ear-pieces forming a head set and lying in opposed locations on a line parallel to and laterally shifted with reference to the line joining the input ends of the searching members and rigid bent tubes, the diameter of which is equal to at least one-half of the diameter of the searching members at the output end thereof, said tubes connecting the searching members through their output end with the ear-pieces.

2,534,848
PROCESS FOR COATING PAPER
William H. Barrett, International Falls, Minn., and Bernard K. Asdell, Metuchen, N. J., assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Original application October 28, 1944, Serial No. 560,858. Divided and this application November 15, 1946, Serial No. 709,936
2 Claims. (Cl. 117—111)



1. A process of coating one side of a moving web of paper having a moisture content of less than about 10% with two smooth films of mineral adhesive coating composition having a solid contents in excess of 60% comprising heating a moving web of paper prior to the application of coating composition thereto, applying an excess of coating composition to a second rotatable applying surface, removing a portion of the coating so applied and smoothing the remainder to a smooth film on the second applying surface, applying the removed portion of the coating composition to a first rotatable applying surface and smoothing the coating to a smooth film, transferring the smooth film of coating on the first rotatable applying surface to the heated moving web of paper, and then applying the smooth film on the second rotatable applying surface over the film applied to the moving web of paper while the film of coating material applied to the paper is still wet.

2,534,849
DEVICE FOR THE CONTINUOUS MEASURING OF THE THICKNESS OF A BAND IN THE ROLLING
Paul Blain, Paris, France, assignor to Societe Anonyme des Acieries et Forges de Firminy, Paris, France, a body corporate of France
Application August 9, 1946, Serial No. 689,363
In France January 29, 1946
1 Claim. (Cl. 33—147)

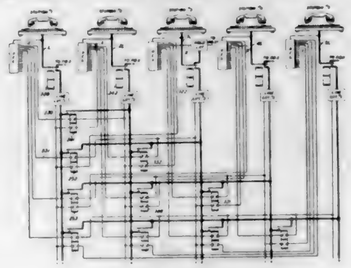


In a rolling mill provided with a pair of rolls having their axes in parallel relationship and adapted to roll a metal band, a device for the continuous measuring of the thickness of the band during the rolling thereof, comprising a first frame positioned at the inlet side, a second frame positioned at the outlet side, a set of four rollers mounted on each of said frames, two rollers of each set being mounted within the space comprised between the horizontal planes passing through said axes while the remaining two rollers of the same set are mounted externally of said space, spring means for urging said frames against said rolls, each of said frames bearing against both rolls through engagement of one pair of rollers on one roll and the other pair of rollers on the other roll, and means for measuring the relative displacement between two given points, one on each frame, said relative displacement indicating the variations occurring in the distance between said rolls.

2,534,850
TELEPHONE SYSTEM HAVING PRESET TRANSMITTER
Langford J. Bowne, Saugerties, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application April 4, 1945, Serial No. 586,560. Divided and this application October 17, 1947, Serial No. 780,440
8 Claims. (Cl. 179—18)

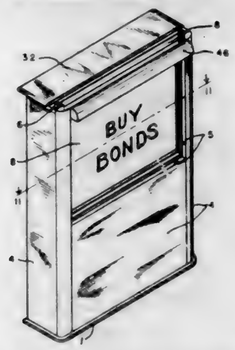
1. In a telephone signaling system in which each of a plurality of station selections is effected by the successive transmission of a plurality of

code impulses, the combination of a line, a station on said line including a telephone handset, and a code transmitter at said station comprising a plurality of groups of rectifiers, a plurality of station selecting keys, contact means controlled by said keys for selectively rendering one or more rectifiers of each of said groups effective in determining the character of the code impulses to be transmitted over said line, contacts for each group of rectifiers adapted to connect the rectifiers of said groups which are rendered



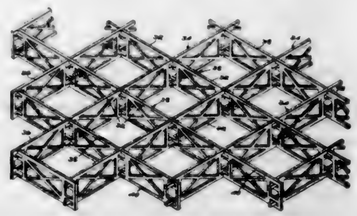
effective by said keys to said line, cam means for individually operating said contacts consecutively, energy storing means also controlled by said keys, and means for causing said energy storing means to operate said cam means whereby said contacts are operated to transmit the characterized code impulses over said line consecutively, said means comprising a link mechanism interposed between said energy storing means and said telephone handset which responds to the removal of said handset, and means for receiving the consecutively transmitted code impulses.

2,534,851
POSTER EXHIBITING DEVICE
Edward Daniel Branzell, Superior, Wis., assignor to Barnes-Duluth Shipbuilding Company, Duluth, Minn.
Application February 27, 1950, Serial No. 146,614
4 Claims. (Cl. 40—79)



3. A poster exhibiting device comprising a chassis; a plurality of channels arranged in said chassis in spaced, opposed, perpendicular pairs; a plurality of posters vertically reciprocably carried in said pairs of channels, means to hold said posters in their uppermost position in said channels, means to release said posters to drop in their respective channels successively from front to rear, and means to return said posters to their uppermost position after all have been dropped comprising, a motor, a shaft rotatable by said motor, cables secured to said shaft to be wound thereon, a pulley, said cables being rove around said pulley and fastened at their otherwise free end to said chassis adjacent said motor, a traveler, said pulley being carried by said traveler, and means extending from said traveler under said posters whereby when said motor is operated, said traveler is lifted up carrying said posters therewith by means of said cables being wound on said motor shaft.

2,534,852
STRUCTURAL UNITS OF GRIDLIKE CONSTRUCTION PROVIDING SUPPORTS FOR WALLS, FLOORS, OR THE LIKE
Alfred M. Butts, New York, N. Y.
Application September 12, 1945, Serial No. 615,741
11 Claims. (Cl. 20—0.5)

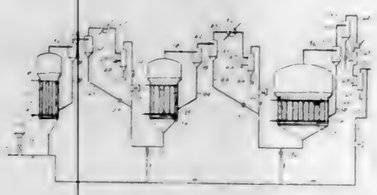


1. A load-supporting grid comprising at least four structurally strong elements of substantially uniform construction interchangeable with one another and at least four connector members appreciably shorter in length than said elements and of substantially uniform construction, said connector members also being interchangeable with one another, each connector member being mounted intermediate the ends of one of said elements and being supported by said element so that its ends extend on opposite sides of said element and each of said elements having one end thereof secured to one end of one of said connector members to form a structural pattern whose center is a closed, four-sided figure having its sides of equal length and formed by a portion of the length of each of said four elements, a connector member being located at each corner of said four-sided figure and a portion of each element extending for a substantial part of its length as a projection of each side of said four-sided figure, one end of each of said connector members and of said elements being thus available for further connection with other structurally strong elements and connector members of similar construction to continue the foregoing structural pattern and to produce a grid covering substantially any desired area.

2,534,853
CASCADE CATALYST SYSTEM
Charles R. Carkeek, Pasadena, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 29, 1947, Serial No. 788,887
8 Claims. (Cl. 260—449.6)

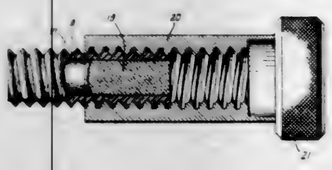
1. In the process of catalytic conversion wherein a gaseous reactant stream is passed upwardly through a fluid phase, solid particle catalyst powder, comprising a plurality of different ranges of particle size, and the effluent reaction products are withdrawn from contact with the

catalyst, the steps which comprise distributing said catalyst powder in a plurality of reaction zones such that each of said zones contains catalyst having a different, predetermined range of particle size, continuously passing reactant gas through each of said reaction zones at a predetermined rate of linear flow at which catalyst within each respective range of particle size is essentially retained in a dense fluid phase condition within its reaction zone, while particles below said respective range of particle size are



entrained in the effluent product stream, recovering from the effluent product stream said entrained catalyst particles below said respective range of particle size, directing thus recovered particles into a reaction zone containing catalyst of a lower range of particle size than the respective range of particle size retained in the reaction zone from which said effluent product stream was withdrawn, and recovering desired products of reaction from the effluent of said reaction zones.

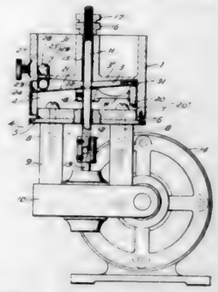
2,534,854
VARIABLE INDUCTANCE DEVICE
Richard G. Clapp, Haverford, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application February 8, 1949, Serial No. 75,255
1 Claim. (Cl. 171—242)



A variable inductance device comprising: a ferromagnetic core having an axis; an externally-threaded cylindrical dielectric coil form closely surrounding said core parallel to said axis, said coil form being provided with a spiral groove extending continuously along the ridge separating adjacent threads; a conductor wound upon said form and resting within said groove; and an internally-threaded non-magnetic conductive sleeve arranged and disposed in engagement with the threads of said form, the minimum depth of said sleeve threads, measured radially from said axis, being substantially greater than the combined depth of thread of said form and maximum dimension of said conductor measured radially from said axis, and the width of said sleeve threads, measured in a direction parallel to said axis, being substantially greater, at any radial distance from said axis, than the conductor dimension also measured parallel to said axis at the same radial distance therefrom.

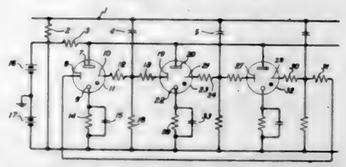
2,534,855
TUBE FLEXING PUMPING MACHINE
Ernest R. Corneil, Niagara Falls, N. Y.
Application May 25, 1949, Serial No. 95,221
In Canada December 4, 1948
8 Claims. (Cl. 103—149)

1. A tube flexing machine for pumping fluids comprising a body having top and side walls defining a tube-receiving chamber therein, a substantially vertically disposed shaft journalled in the body and extending through the chamber, means normally maintaining said top wall in a fixed plane with respect to the shaft, a radially extending arm fixed to the shaft within the chamber, a roller rotatably carried by the free end of the arm on an axis at right angles to the axis of the shaft, a tube-engaging plate in the chamber and encircling the shaft and constituting a movable bottom wall of said chamber, a tube having a portion extending through said cham-



ber and around the shaft in unattached relation to said top and bottom walls, said plate being tiltable about the axis of the shaft to squeeze said tube portion between said top and bottom walls, means fixed to the shaft having a surface engaging and supporting the axial portion of the plate, said roller engaging the under surface of the peripheral portion of the plate and supporting the same, the plane of the plate-engaging surface of the roller being spaced above the plate-engaging surface of said means, and means for driving said shaft.

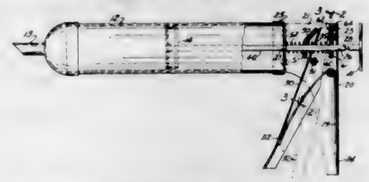
2,534,856
COLD CATHODE GAS TUBE COUNTING CIRCUIT
Clifford J. Craft, 3rd, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1949, Serial No. 90,502
4 Claims. (Cl. 315—201)



1. A plurality of space discharge devices each comprising a starter anode, a main anode, a main cathode, and a probe electrode, said main anodes being connected in multiple, a first resistance common to said main anodes, a plurality of resistance-capacitance parallel combinations, one individual to each of said main cathodes, a direct current voltage source applied across said

first resistance and said resistance-capacitance parallel combinations, a third resistance connecting the probe of one space discharge device to the starter anode of the adjacent space discharge device, a fourth resistance connecting said third resistance to said direct current voltage source, and a condenser to transmit pulses to be counted connected to said third resistance.

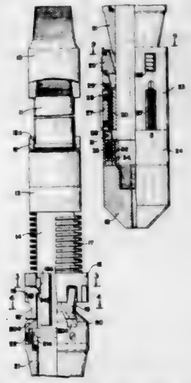
2,534,857
RATCHET MECHANISM FOR CALKING GUNS
Samuel Crewe, East Cleveland, Ohio, assignor to Crewe Manufacturing & Tool Co., Cleveland, Ohio
Application August 30, 1949, Serial No. 113,088
3 Claims. (Cl. 74—169)



1. A ratchet mechanism, comprising in combination, a hollow handle member; an operating lever pivotally mounted in the hollow handle member; a toothless ratchet bar movable through the handle and operating lever; a rectangularly shaped pawl member slidably mounted on the said ratchet bar in front of said operating lever and having an upper lever engaging portion and a lower ratchet bar engaging position, the said upper portion being bent at an obtuse angle to the lower portion and toward the operating lever, the lower portion having a ratchet bar engaging hole therethrough; first spring means normally holding said pawl member lower portion perpendicular to the longitudinal axis of the ratchet bar; a dog member slidably mounted on the ratchet bar to the rear of said operating lever, second spring means normally urging said dog member into a tilted position with reference to the longitudinal axis of the said ratchet bar, in which position the dog member is in wedged engagement with the said bar, and means on the handle member providing a stop to limit the movement of the dog member in one direction, the aforesaid operating lever being moveable between a first position wherein it is engaged with the pawl member to tilt it against the urging of the first spring means into wedged engagement with the ratchet bar, a second position wherein the pawl is free to resume its normal slidable condition on said ratchet bar, and a third position wherein the operating lever engages the dog member to pivot it against the stop thereby causing the dog member to assume a position perpendicular to the longitudinal axis of the ratchet bar, in which position the dog member is disengaged from the said ratchet bar.

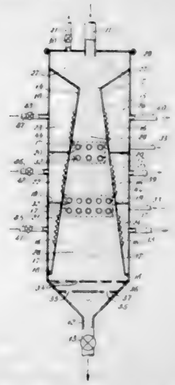
2,534,858
PIPE CUTTER
Guy P. Ellis, Lake Charles, La.
Application June 8, 1946, Serial No. 675,425
12 Claims. (Cl. 164—0.7)

1. In a pipe cutting device a mandrel, a carrier splined to the mandrel providing for relative axial movement therebetween, a cutter pivoted to the carrier, a lug on said cutter, a spring connected between the mandrel and carrier urging the carrier and cutter downwardly, a shoulder on the mandrel engageable by the lug on upward movement of the mandrel to retract the cutter and means cooperable with the spring for advancing the cutter to cutting position with the



cutter lug and mandrel shoulder out of engagement whereby the cutter is resiliently urged to both cutting and retracting positions by a single spring.

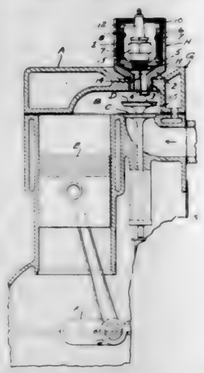
2,534,859
METHOD AND APPARATUS FOR HYDROCARBON CONVERSION
Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application April 18, 1946, Serial No. 662,936
9 Claims. (Cl. 196—52)



1. A method for conducting reactions involving gaseous materials in the presence of a particle form solid contact material which comprises: maintaining a substantially compact confined, vertical column of particle form contact material, effecting a progressive increase in width in one horizontal direction from the upper to the lower end of said column, supplying particle form contact material to the upper end of said column and withdrawing particle form contact material from the lower end thereof, passing gaseous reactant transversely across said column in the direction of its varying width independently at a plurality of vertically spaced apart sections of substantial vertical length, maintaining the gas flow oppo-

site in direction in successive sections, and substantially excluding gaseous flow in the portions of said column between said sections.

2,534,860
COMPRESSION RELIEF FOR INTERNAL-COMBUSTION ENGINES
Bernard C. Fisher, Jersey City, N. J.
Application February 1, 1946, Serial No. 644,859
17 Claims. (Cl. 123—182)

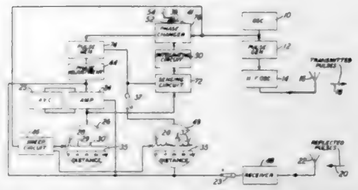


2. In an internal combustion engine, a combustion chamber, a power cylinder, a piston operative therein and operatively connected to the engine crank shaft, means for controlling the intake and exhaust of fuel, an opening through the engine head to the combustion chamber, a spark plug fitting in said opening, an insulator centrally disposed in said spark plug, an auxiliary combustion chamber above the main combustion chamber between the combustion chamber and the spark plug, a passageway opening from said auxiliary combustion chamber providing a limited flow of air to the auxiliary combustion chamber upon the suction stroke of the power piston, said spark plug having a live electrode carried by said insulator extending through the auxiliary combustion chamber toward and into the main combustion chamber, and having a ground electrode associated with the live electrode.

2,534,861
FOLDABLE SAFETY RAZOR WITH NONREPLACEABLE BLADE
Anestis Foitis, Jackson Heights, N. Y., assignor of one-fourth to Allan Panzer, New York, N. Y.
Substituted for abandoned application Serial No. 215,755, June 25, 1938. This application May 21, 1946, Serial No. 671,281
3 Claims. (Cl. 30—47)

3. A safety razor of the non-replaceable blade type comprising a clamping plate, a pair of guard plates underlying said clamping plate and having their respective outer ends integral with the ends of the clamping plate, a double edge razor blade interposed between said clamping plate and the guard plate sections, bendable tongue and slot fastening connections between said clamping plate and the guard plate sections, the tongues of the tongue and slot fastening connections passing through slots in the razor blade and bent against the clamping plate, and a pair of finger grip elements integral with and flexibly connected to the inner ends of said guard plate sections for compact folding thereagainst for packaging purposes, and for unfolding to a position at right angle to the guard plate sections when the razor is to be used for shaving purposes.

2,534,862
RADIO RANGING SYSTEM WITH SELECTIVE AUTOMATIC VOLUME CONTROL AND RANGE FOLLOWING
Arthur Gardner Fox, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 23, 1942, Serial No. 448,099
7 Claims. (Cl. 343—13)



4. In a recurrent pulse-reflection type radio ranging system, means for synchronizing the cross-over point of a locally derived recurrent pulse wave which changes rapidly at a cross-over point from an appreciable positive to an appreciable negative value with a recurrent received reflected pulse, comprising means for combining the received pulse and locally generated pulse wave to produce for each received pulse two electrical quantities, one representing the combination of the pulse and the wave on one side of the cross-over point of the locally generated pulse wave and the second representing the combination of the pulse and the wave on the other side of said cross-over point, and means responsive to differences in said two electrical quantities to maintain the locally generated pulse wave cross-over centered with respect to the received reflected pulse.

2,534,863
GARMENT CONSTRUCTION AND METHOD OF MAKING SAME
Peter Frankel, Rego Park, N. Y., assignor to Peter Morton Leisure Wear, Inc., New York, N. Y., a corporation of New York
Application February 10, 1950, Serial No. 143,553
4 Claims. (Cl. 2—93)

3. In a garment, a front piece, a panel piece sewed to the outside of the front piece with the connecting seams reversed, the panel piece having a lower limb extending across the lower portion of the front piece and connected to the front piece along its bottom edge and along part of its top edge, a pocket lining sewed to the outer face of the front piece back of said limb along its sides and bottom, the upper edge of the lining being sewed to the inside face of the upper edge of the panel limb to form a pocket.

4. A method of forming a garment involving the connection of a panel piece to the outside of a front piece, which comprises the step of disposing the rear edge of said panel piece along the intermediate area of the front piece with the said rear edge of the panel piece facing towards the forward edge of the front piece and in lateral abutment with said area, the step of sewing the rear edge of said panel to the front piece, the step of folding the forward edge of the panel piece

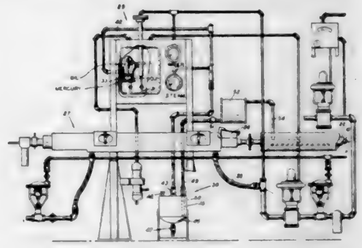
around the rear portion of the front piece to the rear of said line of sewing to inclose said rear area, the step of disposing the forward edge of the thus folded panel piece in lateral abutment with the forward edge of the front piece, the step of sewing the forward edges of the front piece and panel together, and finally the step of turning the thus sewn pieces inside out to reverse the connecting seams.

2,534,864
TERMINAL STRIP FOR ELECTRICAL INTERCONNECTIONS
Morris Fritts, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1947, Serial No. 749,624
5 Claims. (Cl. 173—324)

1. In an electrical distribution system, a terminal strip having a single integral metal plate, a plurality of apertures in said plate for mounting a plurality of individually demountable single electrical terminals in horizontal and vertical rows on said strip, each of said terminals arranged for electrical connection on opposite sides of said strip, individual insulators surrounding each of said terminals, each of said insulators meshing with another of said insulators on said strip and a single locking element for locking said enmeshed terminals on said strip.

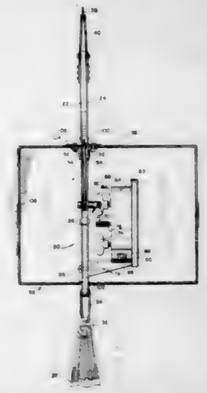
2,534,865
PROTECTIVE SEAL FOR VULCANIZING APPARATUS
Alvin N. Gray, Joppa, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 20, 1947, Serial No. 755,987
11 Claims. (Cl. 18—6)

5. In an apparatus including a chamber for holding mercury and a second chamber for holding a fluid having hydrogen sulphide therein, the improvement which comprises means including a third chamber for connecting the first-mentioned chambers and being in communication therewith, a sulphide-precipitating fluid contained in the third chamber for reacting with the hydrogen sulphide of the second fluid to



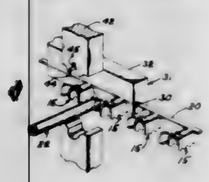
form an insoluble sulphide to prevent contact between it and mercury in the first chamber and for transmitting pressure from the second fluid to the mercury, and a pressure-transmitting sealing fluid immiscible with mercury and the sulphide-precipitating fluid and positioned therebetween.

2,534,866
BALLOON LOAD RELEASE
Raymond I. Hakomaki, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application November 23, 1949, Serial No. 129,123
6 Claims. (Cl. 161—1)



1. A balloon load release device comprising a body member having spaced first and second means for attachment to a balloon and to a load respectively, at least one of said attachment means including a releasable latch, and means for releasing the latch, said releasing means including an actuating shaft rotatably mounted on said member and having means for connection to the alarm winding key shaft of an alarm clock, and supporting means on said member located and arranged with respect to the shaft for mounting an alarm clock with its alarm winding shaft in alignment with said actuating shaft for rotation of the latter to release the latch when the alarm goes off.

2,534,867
METHOD OF APPLYING BINDING ELEMENTS TO CORDS
Francis W. Hennessey, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1945, Serial No. 572,412
1 Claim. (Cl. 153—1)

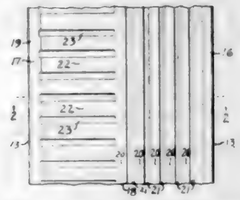


The method of applying binding elements to cords, which comprises locating a cord in a predetermined position, moving a strip of metallic elements interconnected by a web and having S-hooks pivotally attached to each of the elements to a position in which one of the elements is in transverse alignment with the cord, holding the S-hook in a position extending from said last-mentioned element, moving the element to partial engagement with the cord, simultaneously releasing the S-hook and shearing said element from the interconnecting web, and moving said element and said cord into engagement with a forming die to clamp the element around the cord.

2,534,868
HAND TRUCK WITH SELF-COUPLING HOOK
William A. Johnston, Stratford, Conn., assignor to Rolock, Incorporated, Fairfield, Conn., a corporation of Connecticut
Application June 28, 1946, Serial No. 680,152
10 Claims. (Cl. 214—65.4)

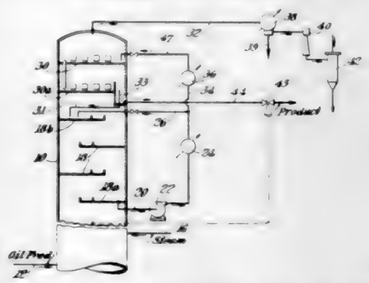
1. A hand truck for taking on and/or discharging loads without manual handling of the load, including the combination with a truck chassis and a swingable tow bar hinged thereon, of a pivot on said bar, a load maneuvering device constructed and arranged to be self coupling to the load comprising a stiff arm swingably connected at one of its ends to said bar by means of said pivot and carrying at its other end an upwardly turned hook engageable with the load by rising movement relative thereto, together with an automatic counterbalancing medium angularly displaced from said arm about said pivot and connected to said arm in a manner yieldably to poise the latter in normal constant absolute angular disposition while said tow bar assumes various angular relationships to said arm and to said chassis.

2,534,869
MOTOR VEHICLE TIRE
Bonnie G. Jones, Williamsburg, Ky.
Application November 19, 1945, Serial No. 629,416
1 Claim. (Cl. 152—209)



In a pneumatic tire; a tread comprising annular ribs disposed exclusively between one edge and the approximate center line of said tread, and cross ribs disposed exclusively between the opposing edge and said line.

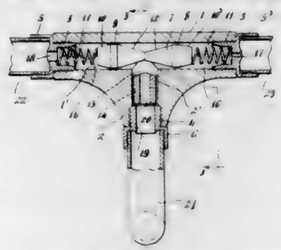
2,534,870
DISTILLATION
Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application July 30, 1947, Serial No. 764,689
8 Claims. (Cl. 202—40)



1. A method of removing heat from the vapors in a steam stripped distillation column operated under a vacuum which comprises withdrawing a portion of the liquid from the column, cooling said liquid and returning a major part of the cooled liquid to the column in direct contact with the vapors in said column whereby the heavier components are substantially condensed from said vapors, subcooling the remainder of said cooled liquid, passing the subcooled liquid to an absorption zone in direct contact with the residual vapors whereby substantially all of the lighter components are absorbed, withdrawing a liquid overhead product from said absorption zone and thereafter removing substantially product-free steam from said column.

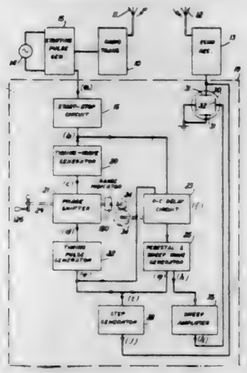
2,534,871
HYDRAULIC BRAKE CHECK VALVE
Joseph Lichtman, Bronx, N. Y.
Application October 25, 1948, Serial No. 56,421
2 Claims. (Cl. 137—69)

1. A hydraulic brake check valve comprising a T-socket whose horizontal ends have openings of different diameter, a two headed piston of different diameter at each head which piston is notched in the middle, slidable in the horizontal portion of said T-socket and resilient means holding said two-headed piston normally in the longitudinal center section of said horizontal portion, and a perforated piston having a conical head fitting into the notched middle portion of said two-headed piston vertically slidable in the vertical portion of said T-socket, said perforated piston to be raised by means of brake fluid passing said valve, the said heads of the two-headed piston being of smaller diameter than that of



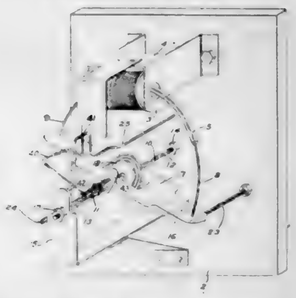
the corresponding borings of the horizontal portions of said T-socket, in order to provide passages of different cross section for the passage of fluid through the respective horizontal portions of the T-socket, said resilient means shifting the two-headed piston to the end of the horizontal portion of the T-socket where pressure loss occurs due to a break in the system and thereby closing said end.

2,534,872
PULSE PRODUCING APPARATUS
Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application June 22, 1943, Serial No. 491,791. Divided and this application December 14, 1946, Serial No. 716,294
8 Claims. (Cl. 250—27)



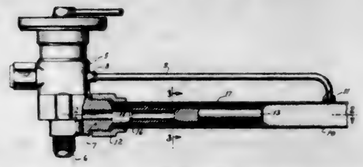
1. In combination, a time constant circuit having capacitance shunted by resistance, the time constant of said circuit being variable, a space current device having an anode, a cathode and a control electrode, means for intermittently charging said capacitance to an initial voltage which may vary, said capacitance being discharged through said resistance during periods separating successive charging periods, a circuit connecting said control electrode and said cathode, and means for deriving from said time constant circuit and impressing upon said grid-cathode circuit to control conduction of the path separating said anode and said cathode a voltage which decreases during each discharge period of said condenser at a rate to cause said control electrode and cathode to reach substantially the same potential when said condenser has discharged for a period equal to the time constant of said time constant circuit irrespective of the initial voltage to which said condenser is charged.

2,534,873
ELECTRICAL RELAY
Francis B. Menger, Lancaster Township, Lancaster County, Pa.
Application November 12, 1948, Serial No. 59,660
6 Claims. (Cl. 200—111)



6. A double-acting relay comprising a solenoid including a pair of field poles, a magnetic armature mounted to move with respect to the field poles to fixed opposite positions of rest, the movement of said armature being substantially unimpeded by said solenoid when energized so long as the gaps between the field poles and the armature are substantially equal, means for pivoting said armature for movement with respect to the field poles, the length of the armature being greater than the distance between the field poles whereby, when unbalanced gaps exist between the field poles and the armature, the armature will be past the dead center of its pivot, means for fixing the armature at its respective positions of rest upon completion of each cycle of operation of the relay to so dispose the armature with respect to the field poles that unbalanced gaps will exist between the field poles and the armature to draw the armature toward an opposite position of rest upon each successive energization of said solenoid, and a switch mechanically connected to said armature and controlled by movement of said armature to said positions of rest.

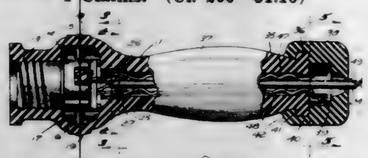
2,534,874
REFRIGERANT EXPANSION DEVICE
George Mettler, North Bergen, N. J.
Application January 26, 1948, Serial No. 4,365
2 Claims. (Cl. 62—127)



1. An expansion device for refrigeration of the character described, comprising an expansion

valve in combination with a cylindrical element connected to the outlet of said valve, said cylindrical element having an axial, longitudinal hole communicating with said valve outlet and a transverse, radial hole near the bottom of said axial hole; a piece of flexible tubing surrounding said cylindrical element under pressure, and fastening means securing one end of said flexible tubing, said fastening means being located between said outlet connection of said expansion valve and said transverse, radial hole.

2,534,875
TROUBLE LIGHT CONSTRUCTION
Alexander Miller, Providence, R. I.
Application December 29, 1945, Serial No. 638,066
4 Claims. (Cl. 200—51.16)



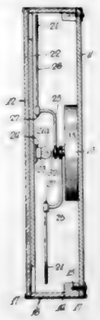
3. A trouble light construction comprising a casing of insulating material having a cavity at one end for receiving a light socket and a central cord passageway, said cavity having a light socket, said casing having an end flange at the other end, a plug-in socket having a central cavity and two transverse slots communicating with the central cavity, contact elements seated in said transverse slots, said plug-in socket having a recess in which the end flange of said casing seats, and a resilient rim extending over the end flange to retain the end flange in the plug-in socket recess, wiring connecting said light socket and said contact elements in parallel, a cord extending through said cord passageway and said plug-in socket and connected to said wiring, and means for locking the cord against withdrawal from the casing, comprising a shoulder in said passageway and a clamp secured to said cord and contacting said shoulder.

2,534,876
WAVE GUIDE COUPLING ARRANGEMENT
Antoine Jean Ortusi and Raymond Paul, Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application April 29, 1948, Serial No. 24,064
In France May 21, 1947
7 Claims. (Cl. 178—44)

1. In a coupling arrangement between ultra high frequency wave guides, a rectangular guide traversed by a transverse electric wave of the H_{01} type, a circular guide traversed by a transverse electric wave of the H_0 type, the said rectangular guide penetrating into the interior of the circular guide so that the small side of its section is placed substantially perpendicular to the axis of the circular guide and its large side parallel to said axis.

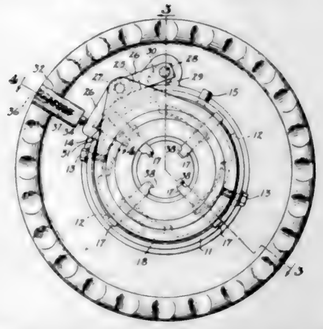
2,534,877
ILLUMINATED MIRROR CLOCK
Lewis M. Owen, New York, N. Y.
Application September 13, 1946, Serial No. 696,806
3 Claims. (Cl. 58—50)

1. An article of the character described comprising a rear panel, a front panel of transparent material having the main central area thereof mirrored and time markings on the periphery thereof, a clear annular portion between said time markings and mirrored center portion, means at the periphery of said front and rear panel to space and hold them parallel to one another, a backing panel affixed to the underside of said front panel, said backing panel having a diameter no greater than the diameter of said mirrored center portion, an electric bulb affixed to said backing panel near the center of the front panel, a clock motor affixed to the rear panel at



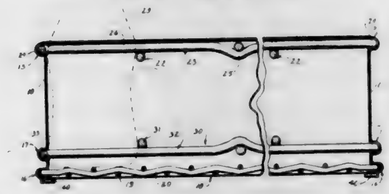
the center thereof between said front and rear panels and having a minute and hour arbor, a pair of arms affixed at one end to the minute and hour arbors respectively, an indicating hand of light conducting material affixed to each of said arms and extending radially of said front panel, each of said hands being parallel to the front panel and having a beveled and ground edge at one end thereof, the other ends of said indicating hands revolving around said bulb, the beveled ends of said hands being visible in the clear annular portion of said front panel.

2,534,878
ROTATING DIE HEAD WITH CAM OPERATED RADIAL CHASERS
Harry V. Packer, Cleveland, Ohio, assignor to The Oster Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 20, 1948, Serial No. 45,252
9 Claims. (Cl. 10—122)



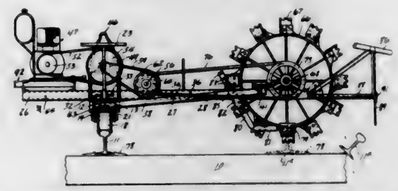
1. A die head comprising a body portion adapted for attachment to a rotary spindle and having circumferentially spaced sockets that converge toward its axis for slidably receiving thread cutting dies, a die adjusting cam rotatably mounted in said head and having circumferentially extending die engaging portions inclined in the same direction with respect to their circumferential path of travel to move the dies simultaneously toward or away from the head axis, a handwheel extending around the periphery of the head and mounted to turn thereon, a lost motion connection between said handwheel and cam permitting a small relative angular movement of the handwheel with respect to said cam, and means for releasably locking said cam to said body portion to positively hold said cam against turning movements with respect to said body portion of the head comprising a movable member operably connected to said cam and handwheel to be moved into and out of its cam locking position by relative angular movements of said handwheel and cam.

2,534,879
METAL BOTTLE CASE
George T. Powell, Jr., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
Application April 24, 1947, Serial No. 743,493
1 Claim. (Cl. 220—21)



A bottle case comprising in combination a sheet metal body shaped to form the side and end walls of the case, with rounded corners, said body being formed with an outwardly protruding, inwardly curled bead forming its upper edge, an outwardly directed channel formation in the lower margin of said body, a second outwardly directed channel formation in said body above the first-named channel formation, a woven wire bottom member in the first-named channel formation, a wire separator assembly spanning the case body at the top comprising longitudinal and transverse separator wires, said wires having their end areas bent at an angle in opposite directions and parallel with the contiguous wall of the case body, and said bent ends being seated in said upper bead of the case body and substantially filling said upper bead as an internal reinforcement, and a second wire separator having its border seated in the second channel formation.

2,534,880
BALLAST REMOVING MACHINE
Dennis M. Praytor, Birmingham, and Knox Kershaw, Montgomery, Ala.
Application October 14, 1946, Serial No. 703,262
3 Claims. (Cl. 37—104)

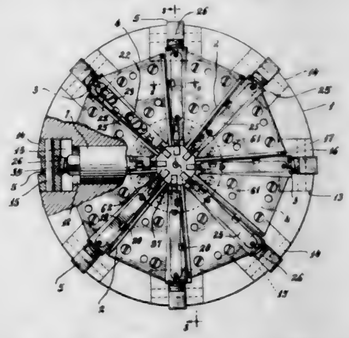


1. Apparatus for removing ballast from between cross ties in a railroad track bed comprising a main frame having tandem supporting wheels adapted to travel on one rail only of the railroad track, a transverse frame, means to secure the transverse frame in a plurality of positions on the main frame, a rotary digging unit mounted on one end of the transverse frame in position to enter the spaces between the cross ties and remove ballast therefrom, a power unit on the other end of the transverse frame, means to transmit power from the power unit to the digging unit, manual means for holding the digging unit in engagement with the ballast to be removed, and a member adjustably secured to the transverse frame and to limit the depth to which the digging unit will enter between the ties.

2,534,881
ELECTRICAL WIRE CONNECTOR WITH INSULATION PIERCING MEANS
Henry J. Schroeder, Chicago, Ill.
Application April 20, 1946, Serial No. 663,683
1 Claim. (Cl. 174—84)

An electrical connector comprising a hollow cap open at both ends and having oppositely extending sets of divergent walls, said walls being substantially symmetrical about the longitudinal axis of the cap, a pair of metal clips each having opposite convergent sides substantially conforming in convergence with the convergent walls of said cap, the metal sides of each clip being connected by a U-bend at one end of each clip, said clips being insertable in said cap with the convergent sides of each clip in contact with portions of the convergent walls of said cap, conductor engaging means carried by the face ends of the sides of each clip and disposed at substantially right angles to said longitudinal axis of said cap to make penetrating electrical engagement with conductors insertable in said clips along substantially the longitudinal axis thereof, and means for holding said clips in said cap in electrical contact with each other.

2,534,882
MILLING HEAD
Sava I. Sherr, New York, N. Y., assignor to Samuel Briskman, New York, N. Y.
Application October 30, 1947, Serial No. 783,178
4 Claims. (Cl. 90—59)



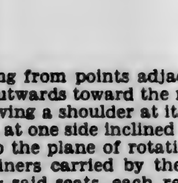
1. The combination of a rotatable milling head having parts presenting elongated seats open through the front face of the head, said

seats extending from points adjacent the middle of the head outwards toward the rim thereof, the seats each having a shoulder at its inner end and a flat surface at one side inclined at other than a right angle to the plane of rotation of the head, movable retainers carried by the head and extending along said seats, each retainer being in operative relation to an adjacent seat and having its adjacent side parallel to said surface thereof, and means for actuating said retainers into and out of position to clamp a piece of stock against each of said surfaces, said seats each being offset from a radial position with respect to the axis of rotation of the head.

2,534,883
MODIFIED RUBBER PRODUCTS
William H. Smyers, Westfield, N. J., assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Delaware
Application November 16, 1946, Serial No. 710,330
2 Claims. (Cl. 260—4)

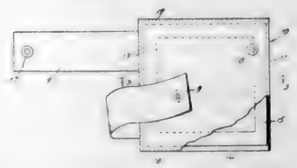
1. A composition comprising essentially rubber, a petroleum hydrocarbon wax, and a polyisobutylene having an average molecular weight of at least about 2,000.

2,534,884
SUBMARINE PERISCOPE
John Martin Strang, Glasgow, Scotland, assignor to Barr & Stroud, Limited, Glasgow, Scotland
Application October 26, 1946, Serial No. 705,921
In Great Britain May 12, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 12, 1965
2 Claims. (Cl. 88—69)



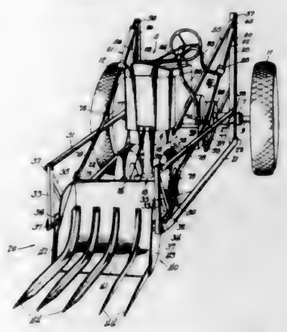
1. A submarine periscope having a window cleaning system comprising an air pressure source and an air delivery conduit containing air under pressure arranged to discharge said air against the periscope window to clean the same, a non-return valve interposed in said conduit at a position in close proximity to the periscope window, said valve comprising a housing fixed to the periscope, a perforated plate within said housing in communication with said conduit, said conduit being directed towards the periscope window, a flexible flap engaging said plate to close said perforations and conduit against entry of water past said valve, means for pressing said flap against said perforated plate, said flap opening under pressure from said conduit to allow for the discharge of the pressure cleaning air to the outer surface of the window when the periscope is above water, the air under pressure being constantly directed against said flap and being resisted by said flap pressing means, said pressure of air being sufficient to overcome said resistance and discharge said air against said window when said window is above water, but being insufficient to overcome said resistance and water pressure against said flap when the valve is submerged, so that the valve remains closed when the submarine is submerged.

2,534,885
BRIDGE ELEMENT FOR CATAMENIAL DEVICES
Ethel Strouse, New York, N. Y.
Application September 7, 1949, Serial No. 114,309
3 Claims. (Cl. 128—290)



1. The combination with a catamenial device comprising a pad and a covering therefor provided with strap elements extending forwardly and rearwardly of the pad, of a bridge element arranged for mounting on the rear strap at a point spaced from its free terminal in an adjusted fixed position, such bridge element comprising a generally rectangular casing formed of flexible material, flat stay members disposed in the casing along the transverse and longitudinal edges thereof for reinforcing the casing, and a loop secured to the rear surface of the casing through which such rear strap element may pass and be positioned at a point inwardly of the free terminal thereof.

2,534,886
HYDRAULIC POWER SHOVEL LOADER
Harold M. Stueland, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 10, 1947, Serial No. 733,495
1 Claim. (Cl. 214—140)

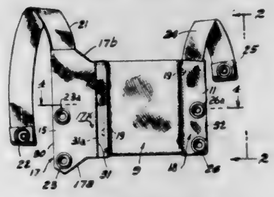


A machine of the class described, comprising: a generally longitudinal body having an upright support adjacent one end portion thereof and rigidly secured thereto; beam structure pivotally mounted on a transverse axis at one end portion thereof adjacent the end portion of the body at which the support is located and extending beyond the other end portion of the body; material-handling means carried by the portion of the beam structure that extends beyond the body; fluid pressure apparatus, including a cylinder and a piston, extending downwardly from an upper portion of the support to that portion of the beam structure that carries the material-handling means; means connecting the fluid pressure apparatus at the upper end portion thereof to said upper portion of the support, including a pivot on a transverse axis; and an articulate connection between the lower end portion of the fluid pressure apparatus and a portion of the beam structure adjacent the material-handling means, including means provided for displacement of the lower end portion of the fluid pressure apparatus either upwardly or downwardly about the pivot axis thereof on the support and relative to the beam structure, and further including means restraining the fluid pressure apparatus against lateral displacement relative to the beam structure.

2,534,887
AUTOMATIC SAFETY CATCH
Frank Vogel, Philadelphia, Pa., assignor to Albert H. Reef, Hymen H. Novack, and Irving Haber, all of Philadelphia, Pa.
Application November 20, 1945, Serial No. 629,822
5 Claims. (Cl. 24—158)

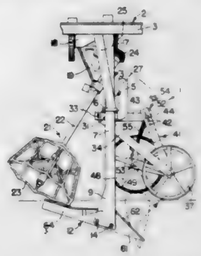
1. An automatic safety catch comprising a body member formed of a plate including a base, a pair of parallel spaced side walls having slots extending inwardly from the outer ends opposite the base, said side walls having the outer edges converging towards their inner ends at the base, said base and side walls forming a chamber and underlying the other of said side walls, a latch member slidably mounted in the chamber between the two side walls, said latch member including a shank having a beak with a curved outer edge extending therefrom and adapted to project across the slots in the side walls, a cross member projecting from the lower end of the shank, a stem projecting upwardly from the cross member and spaced from the tip of the beak, an arm projecting from the stem and extending outside of the body, and shoulders on said arm, a spring between said shoulders and the adjacent edges of the body side walls, a finger piece projecting from the arm, and a stop to limit the movements of the latch member.

2,534,888
KNEE GUARD
Annette E. Vold, Rosemead, Calif.
Application March 18, 1949, Serial No. 82,209
4 Claims. (Cl. 2—24)



2. In a knee guard of the kind described, a cushioning pad for the knee, sheet material including a pocket or sack containing said pad, a rear part of said sheet material extending upwardly a considerable distance from the applied pad and lying in the same vertical plane as the rear face of the latter, a strap secured at one end to a side portion of said upwardly extended part at a point widely spaced above the upper side of said pad, fastening means positioned to secure the unattached end of said connection to the opposite side of said upward extension after said strap is passed around the leg, and additional fastening means for the knee guard connected with the lower part thereof, said upward extension being flared throughout its upper edge portion thus providing diverging ears which project laterally beyond all other parts of the device, said strap being permanently attached to one end of said ears and being detachably connectible with the other of them.

2,534,889
BEET HARVESTER
Claude W. Walz, Rock Island, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Continuation of application Serial No. 551,359, August 26, 1944. This application July 22, 1947, Serial No. 762,686
20 Claims. (Cl. 55—106)



1. A beet puller unit for beet harvesters and the like, comprising support means, a pair of laterally spaced puller points carried by said support means and adapted to be propelled along a row with the points under the ground surface and passing adjacent the beets in the row, a pair of press wheels spaced apart laterally and disposed substantially over the front end of said points, means connecting said press wheels with said support means whereby said press wheels are disposed in vertical planes closely adjacent but outside of the vertical planes of said puller points, and a central spring mounted wheel connected with said support means and disposed rearwardly of said press wheels and arranged to prevent the beet from being forced out of the ground by the front ends of the puller points as the latter move down a row of beets, and means rearwardly of said central wheel for lifting said beet.

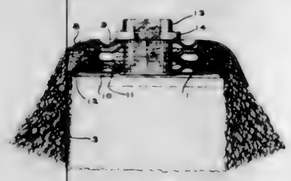
2,534,890
DROP-LEAF EXTENSION TABLE
Louise T. Watts, New York, N. Y.
Application August 3, 1948, Serial No. 42,315
3 Claims. (Cl. 311—63)

1. A foldable table comprising a fixed center section having not more than two legs, a drop leaf hinged to said center section, said drop leaf having a width less than the height of the table, a pair of interconnected foldable legs, movable as a unit, and a swingable apron member hinged

at one end to said leg unit and hinged at its other end to said fixed center section, the apron member having a length so that when the leaf is extended it is supported near its outer corners by

said pair of legs in cooperation with said apron member, said leg and apron member being foldable as a unit into a position below the fixed center section.

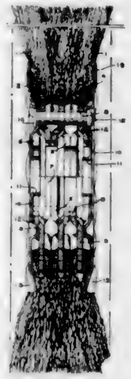
2,534,891
CUP BRUSH
Glenn C. Wilhide, Towson, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application August 4, 1945, Serial No. 608,865
4 Claims. (Cl. 15—181)



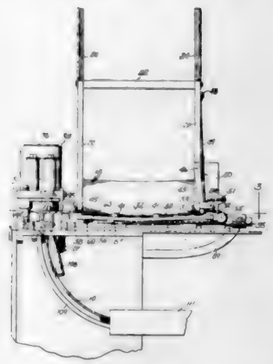
1. A brush comprising a plurality of side-by-side tuft holding disks, U-shaped tufts mounted at their bights circumferentially in the disk, the tufts extending radially from each side of the disk, each disk being axially perforated and having a plurality of circular segments extending at the axial edge of the axial perforation circularly alternately from each opposite side thereof, segments directed toward adjacent disks being in register, to space the disks apart for the tufts to pass therebetween, a cup shaped member enclosing the assembled disks from one side and constraining the tufts to a frusto-conical position, a tuft directing flange on the other side of the assembled disks and a hub passing through the member, disks and flange to hold the same together.

2,534,892
WIRE WHEEL BRUSH
Glenn C. Wilhide, Towson, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application August 4, 1945, Serial No. 608,864
10 Claims. (Cl. 15—181)

1. A brush comprising a tuft holding disk, U-shaped tufts mounted at their bights circumferentially in the disk, the tufts extending radially from each side of the disk, said disk being axially perforated and having a plurality of circular segments at the axial edge of the axial perforation extending circularly alternately from each opposite side thereof, an end plate fixed to one side of said disk having a central portion adapted to be supported by an arbor and a radially extending outer portion to hold the tufts radially and an intermediate portion shaped to conform to the outer configuration of the segments, the nesting relation of the segments and intermediate portion transmitting radial pressure from the tuft disk to the end plate arbor supported part.



2,534,893
BAG HANDLE FEEDING MACHINE
Ivan A. Williams, Portland, Oreg., assignor to Cushion Grip National, Salem, Oreg., a corporation of Oregon
Application January 8, 1949, Serial No. 69,886
7 Claims. (Cl. 271—44)

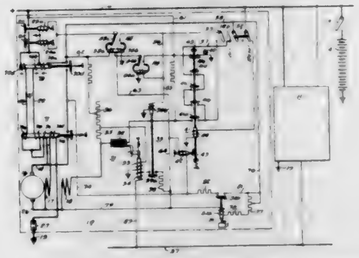


1. Means to feed individual strips of material step by step in one direction from the bottom of a stack of strips, comprising a plurality of dogs engageable with the bottom of said stack, means reciprocating all of said dogs in said direction a distance slightly greater than the spacing between individual dogs, resilient means urging each of said dogs upwardly against the bottom of said stack, a movable member adapted in one position to retain the rearward edge of the lowermost strip in an elevated position, means associated with the foremost dog for withdrawing said member when the trailing edge of a strip is engaged by said foremost dog, and means for returning said movable member to its retaining position when said foremost dog is being retracted whereby the trailing edge of a succeeding strip is moved forwardly in position to be engaged by the rearmost dog.

2,534,894
CHRISTMAS TREE OR ANTENNA STAND WITH SUCTION BASE
Arthur O. Zedler, Yonkers, N. Y.
Application May 19, 1948, Serial No. 27,975
4 Claims. (Cl. 248—194)

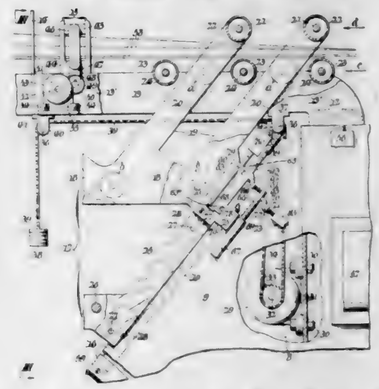
1. A combined stand and base for supporting a Christmas tree or antenna post and the like, including a base having suction means and adapted to stand upon the floor and be secured thereto by said suction means and having an upwardly directed socket surmounting the same, a removable member inserted into said socket and projecting upwardly therefrom, a plurality of crossed plates or blades fixed upon the removable member in substantially upright position, and a detachable hollow member having slotted portions extending limited distances upward from the lower end thereof for straddling said crossed blades or plates and gripping means for fixing a tree trunk or antenna post in said hollow member.

2,534,895
AUXILIARY POWER SYSTEM FOR AIRCRAFT
Bascum O. Austin and Omar C. Walley, Lima, Ohio, and Donald W. Exner, Seattle, Wash., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 28, 1948, Serial No. 12,118
15 Claims. (Cl. 171—119)



1. In combination, a plurality of direct-current generators for supplying power to a common load bus, electrically-interconnected voltage regulators individual to each generator for normally maintaining predetermined output voltages of the generators and load division therebetween, switch means operable to connect each generator to the load bus, and control means for controlling the operation of each switch means, said control means including first and second polarized relay means jointly responsive to the magnitude and polarity of the generator voltage operable to render said control means effective to operate the switch means to connect the generators to the load bus only in the event that the polarity and magnitude of the voltage is in predetermined relation to the polarity and magnitude of the voltage of the load bus.

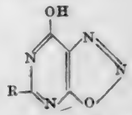
2,534,896
STOP CONTROL MECHANISM
John C. Bodansky, Gastonia, N. C., assignor to Cocker Machine & Foundry Company, Gastonia, N. C., a corporation of North Carolina
Application August 25, 1947, Serial No. 770,491
6 Claims. (Cl. 28—32)



2. In a beam warper of the type having a warp control means between a source of warp supply and a selectively driven warp beam, said warp control means comprising a first set of rolls having fixed axes, a second set of rolls, a carrier for said second set of rolls, said carrier being mounted for movement between an upper position in which warp passing between the two sets of rolls is untensioned thereby and a lower position in which the warp is drawn into loops of substantial length, and the movement from the upper to the lower position involving a gravity descent of the carrier, said carrier being normally releasably held in said upper position, means for releasing the carrier for initial descent to an intermediate position followed by gravity descent to the lower position, and means whereby said carrier may thereafter be automatically elevated to said intermediate position by the pull of the warp thereon.

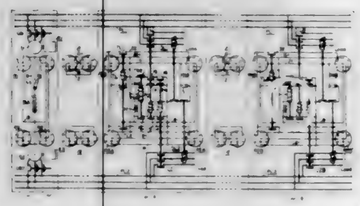
2,534,897
OXADIAZOLOPYRIMIDINES AND METHOD OF PREPARING THE SAME
James H. Boothe, Pearl River, and Coy W. Waller, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 14, 1950, Serial No. 138,699
6 Claims. (Cl. 260—251)

1. Chemical compounds having the general formula:



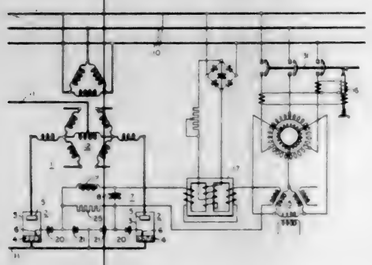
in which R is a member of the group consisting of hydroxyl and amino radicals.

2,534,898
HEAD-END POWER SYSTEM FOR RAILWAY CARS
Robert E. Burkhart and George R. Purifoy, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 21, 1949, Serial No. 71,798
7 Claims. (Cl. 171—97)



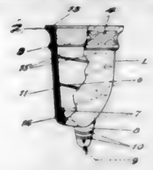
7. In a power system, in combination, power generating apparatus, a power train line, switching means for connecting said apparatus to said train line, a plurality of load circuits, a line switch for connecting each of said load circuits to said train line, a time delay relay and a train line relay associated with each line switch to cause said line switches to be operated in sequential relation, interlocks on each line switch for controlling the energization of its associated time delay relay, each time delay relay controlling the energization of its associated train line relay, and a train line conductor energized through each train line relay.

2,534,899
VAPOR ELECTRIC DEVICE
Louis A. Casanova, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1949, Serial No. 102,252
3 Claims. (Cl. 315—250)



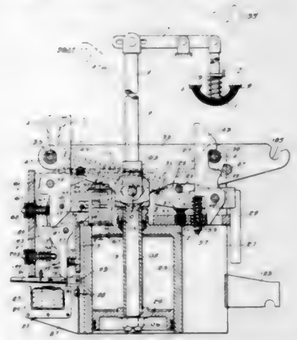
1. An exciting system comprising a wave distorting impulsing system, means including an overcurrent switching device supplying energy to said system, a pair of make-alive electrodes connected to said system, a unidirectional conductor in series with each of said electrodes, a unidirectional conductor in shunt with each electrode and its associated series connected unidirectional conductor, an impedance connected across the terminals of said impulsing system ahead of said unidirectional conductors, said impedance being responsive to failure of one of said make-alive electrodes to actuate said overcurrent breaker.

2,534,900
MENSTRUAL CUP
Leona W. Chalmers, New York, N. Y.
Application January 4, 1950, Serial No. 136,797
9 Claims. (Cl. 128—285)



1. A menstrual cup adapted for placement in the vaginal canal, comprising a tapered cup having a relatively thick back and pliable walls, in combination with a bulge forming a straight extension of the back down to a point opposite the bottom of the cup, whereby the cup maintains a straight position in the canal.

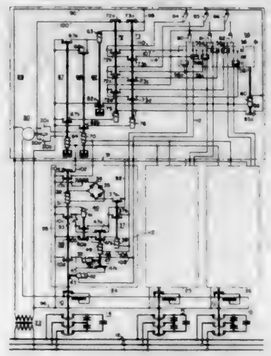
2,534,901
CIRCUIT INTERRUPTER
James M. Cumming and Samuel H. Boden, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 24, 1947, Serial No. 730,518
16 Claims. (Cl. 200—82)



1. In a circuit interrupter comprising relatively movable contacts, operating mechanism for said contacts comprising a lever operatively related to said contacts, means releasably restraining one end of said lever, trip means operable in response to abnormal circuit conditions to release said one end of said lever to initiate opening movement of said interrupter, a second restraining means for releasably restraining the other end of said lever, means for operating said second restraining means to effect movement of said interrupter to full open position, spring means associated with said one end of said lever for limiting movement of said one end of said lever in opening direction, and manually operable means for rendering said spring means ineffective to limit movement of said one end of said lever.

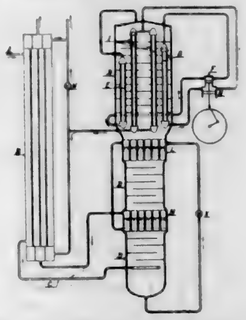
2,534,902
AUTOMATIC SWITCHING SYSTEM
William H. Cuttino, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1948, Serial No. 61,042
7 Claims. (Cl. 171—97)

7. In an automatic switching system for a plurality of circuit breakers disposed to connect separate load devices to or disconnect them from a power circuit, a voltage relay responsive to voltage conditions of the power circuit, a sequence relay operable to different positions to provide a partial closing circuit for one breaker in each position and a partial trip circuit for another breaker, time delay relay means of the delayed dropout type selectively responsive to operation of the voltage relay, time delay means operable a predetermined time after operation of said time delay relay means to provide for operating the



sequence relay to a different position, auxiliary relay means jointly responsive to operation of the sequence relay and said time delay relay means to set up a partial closing circuit for each breaker or a partial trip circuit for each breaker, said auxiliary relay means being connected to effect deenergization of the time delay relay means, and circuit means responsive to the operating position of each breaker connected to prevent completion of a closing or tripping circuit for any breaker already closed or tripped.

2,534,903
PROCESS FOR SEPARATING BY LIQUEFACTION GASEOUS MIXTURES INTO THEIR CONSTITUENTS
Alfred Etienne, Paris, France, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France
Application July 13, 1945, Serial No. 604,880
In France December 19, 1940
6 Claims. (Cl. 62—175.5)



1. A process for separating a mixture of gases having relatively low boiling points into its constituents or into groups of constituents by partial liquefaction comprising causing the gaseous effluent of the partial liquefaction to pass at least three times in succession in heat exchange relationship and in counterflow with the gaseous mixture circulating in a constant direction and being thereby separated, all these heat exchanges terminating substantially in the same zone where said gaseous mixture is being separated, and said gaseous effluent being subjected to at least two expansions with production of external work namely one expansion between two successive heat exchanges.

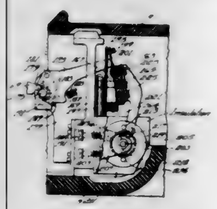
2,534,904
KNEE SADDLE CONSTRUCTION
Ruth H. Feero, Cumberland, Md.
Application April 13, 1949, Serial No. 87,327
1 Claim. (Cl. 272—1)

A child's simulated saddle, for use on a person's knee and thigh, comprising in combination, a semi-rigid saddle tree having an upwardly-projecting rigid pommel at its forward end and having an upwardly-curved rigid cantle-like portion at its rearward end, a saddle pad secured to and within said saddle tree, said saddle pad being of sheet material having a semi-cylindrical lower surface adapted to engage and rest on an adult knee and thigh, a resilient U-shaped clip secured to said pad to engage and grip the sides of the thigh, ornamental covering material extending over and secured to said saddle tree and hanging downward on each side of saddle tree below the lower edges of said saddle tree and saddle pad, and stirrups suspended below the lower edges of said covering material and supported by said saddle tree.

2,534,905
DISTILLATION OF FLUOROHYDROCARBONS
Alvin H. Friedman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application July 2, 1945, Serial No. 602,920
10 Claims. (Cl. 202—50)

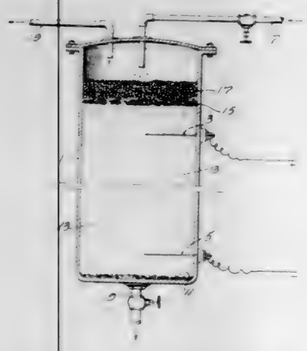
1. The process of separating a relatively unstable fluorohydrocarbon which decomposes during distillation from a mixture containing the same, which comprises introducing sufficient water into a distillation zone to maintain a separate liquid aqueous phase with said fluorohydrocarbon, distilling said mixture with substantially no decomposition of said fluorohydrocarbon, and recovering a purified fluorohydrocarbon from said distillation.

2,534,906
SHOCKPROOF CIRCUIT INTERRUPTER
George G. Grissinger, Wilkinsburg, Jerome Sandin, Forest Hills, and Ture Lindstrom, Edgewood, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 11, 1943, Serial No. 513,868
20 Claims. (Cl. 200—109)



2. In a circuit breaker, a trip device comprising a trip member movable to cause opening of the breaker, electroresponsive means operable in response to predetermined conditions to operate said trip member, and means comprising a plurality of movable masses biased in opposite directions into engagement with a part movable with said trip member, each of said masses being adapted to be set in motion by said trip member in response to jarring forces, and each of said masses being operable when set in motion to impinge a series of successive blows on said part movable with the trip member in a direction to oppose tripping movement of the trip member.

2,534,907
PROCESS OF PURIFYING HYDROCARBON LIQUIDS
Garnet Philip Ham, Old Greenwich, and Robert Bowling Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application January 19, 1945, Serial No. 573,613
3 Claims. (Cl. 204—188)

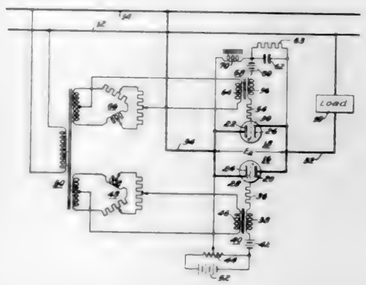


3. A process for removing impurities in the form of metallic substances from hydrocarbon liquids comprising passing a non-aqueous liquid hydrocarbon containing, as an impurity, a compound of a metal which has a relatively insoluble metal hydroxide through a bed of an anion active resin, which resin is polarized by means of a high tension D. C. potential.

2,534,908
METHOD FOR THE MANUFACTURE OF MOLDED ARTICLES
Tibor Holzer, Zurich, Switzerland
No Drawing. Application August 28, 1946, Serial No. 693,589. In Switzerland January 9, 1946
10 Claims. (Cl. 106—123)

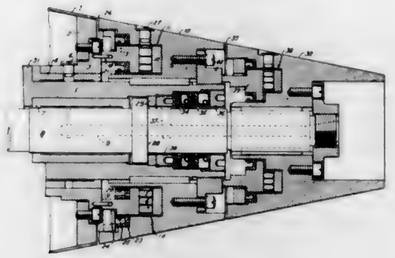
2. A process of manufacturing molded articles consisting of (1) admixing dilute commercial waste liquor, an animal albuminous substance, and a cellulosic aggregate, (2) precipitating ligno-glutin from the resulting mass directly on said aggregate carrier by an added dilute mineral acid, (3) removing the excess liquid, and (4) molding and heating the resulting wet acidic mass at elevated temperatures and pressures to form a unitary molded product.

2,534,909
VOLTAGE CONTROL SYSTEM
Charles K. Hooper, Linthicum Heights, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 28, 1947, Serial No. 771,098
4 Claims. (Cl. 323—24)



1. In a system for controlling the alternating current potential applied to a load connected to be supplied from a source of alternating current, the combination comprising, a pair of electric discharge valves connected in back-to-back relation and having control grids, the pair of back-to-back connected valves being connected in series circuit relation between the load and the source of supply, means for controlling the direct current biasing potential impressed on the grid of one of the valves to render said one of the valves conducting for a predetermined interval, means for impressing a predetermined alternating current biasing potential on the grid of the other one of the valves, and a filter circuit including a capacitor connected across the back-to-back connected valves, the capacitor of the filter circuit being connected in the grid circuit of said other one of the valves for providing a positive or negative direct current biasing potential therefor dependent upon the relative conducting intervals of said back-to-back connected valves, said direct current biasing potential cooperating with said alternating current biasing potential to render said other one of the valves conducting for a predetermined interval substantially equal to the predetermined conducting interval of said one valve.

2,534,910
THRUST BEARING
Lawrence D. Jennings and Joseph Naymik, Sharon, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1946, Serial No. 653,192
8 Claims. (Cl. 308—234)

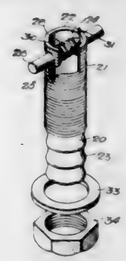


1. In a thrust bearing, in combination, a base having a flat surface, a shaft rotatably mounted in the base and with its axis disposed normal to the flat surface, said shaft having an end projecting beyond the flat surface, a hub secured to the shaft at the projecting end, an annular recess in the hub in the surface of the hub facing the flat surface, a thrust receiving ring in the bottom of the recess, a roller bearing race disposed in the recess against the ring, said roller bearing race housing a plurality of radially disposed roller units, a thrust receiving ring disposed against the rollers, annular sealing means, being U-shaped in section, disposed in said recess with the open end of the U being directed toward the flat surface and with the outer leg of the U snugly engaging the hub and the other leg similarly engaging the thrust receiving ring, whereby said sealing means prevents any fluid, disposed between the hub and the flat surface of the base, from entering the region of the recess occupied by the roller bearing race, said thrust receiving ring being disposed to engage the flat surface of the base to thus transmit the thrust on the hub to the base.

2,534,911
PROCESS OF REMOVING HYDROGEN EMBRITTLEMENT OF BRIGHT NICKEL ELECTRODEPOSITS
Arthur S. Kasper, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 3, 1948, Serial No. 18,853
5 Claims. (Cl. 204—37)

1. A process for relieving hydrogen embrittlement of ductile bright nickel deposits formed as an intermediate layer on a metallic object and having a superimposed layer of chromium electrodeposited thereon, which comprises providing a chromium-free surface area on the plated object and subsequently heating the object to a temperature of from 150 to 300° F. for a period of time ranging from about 15 minutes to several hours, the specific period being correlated with the treating temperature with a shorter heating period being employed with higher temperatures.

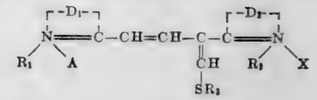
2,534,912
ADAPTER
Samuel M. Kass, Philadelphia, Pa.
Application October 4, 1948, Serial No. 52,696
2 Claims. (Cl. 285—44)



1. A pipe adaptor comprising a pipe having near one end a hole extending clear across, a pin extending through the hole and extending beyond the pipe at each side when in equalized position and a spring secured to the pin within the pipe and urging the pin to equalized position.

2,534,913
CYANINE DYESTUFFS AND INTERMEDIATES CONTAINING ALDEHYDE
John David Kendall and Frank Peter Doyle, Ilford, England, assignors to Ilford Limited, Ilford, England, a British Company
No Drawing. Application June 3, 1948, Serial No. 30,976. In Great Britain June 4, 1947
5 Claims. (Cl. 260—240.6)

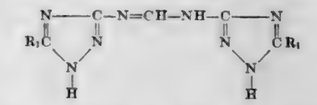
1. Process for the production of dyestuffs which comprises reacting with a hydrolytic agent selected from the class consisting of water and alcohols a compound of the general formula:



where D_1 and D_2 are each a residue selected from the class consisting of five-membered and six-membered heterocyclic nitrogen rings, R_1 and R_2 are each selected from the class consisting of alkyl, aralkyl, hydroxyalkyl, and hydroxyaralkyl groups, R_3 is selected from the class consisting of alkyl and aralkyl groups and A and X are acid radicles.

2,534,914
TRIAZOLE COMPOUNDS
John David Kendall and Harold Gordon Suggate, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
No Drawing. Application August 3, 1949, Serial No. 108,417. In Great Britain August 6, 1948
4 Claims. (Cl. 260—240)

1. Triazolyl formamidines of the general formula:

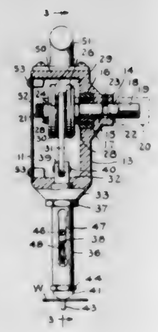


where R_1 is selected from the class consisting of the hydrogen atom and alkyl groups.

2,534,915
METHOD OF MAKING POROUS CONCRETE
Benjamin M. King, Jr., Evansville, Ind., assignor to Henry B. Walker, Jr., Evansville, Ind.
No Drawing. Application October 19, 1948, Serial No. 55,429
4 Claims. (Cl. 106—87)

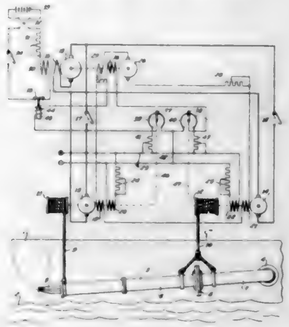
1. The method of preparing a cellular hydraulic cement which comprises mixing 94 parts by weight of Portland cement with from 40 to 90 parts by weight of water and with from 0.3 to 0.6 part by weight of sodium hydroxide, and adding to the resulting mixture a dispersion of from 0.06 to 0.19 part by weight of aluminum powder in an aqueous solution of a water soluble organic sulphonate emulsifying agent under conditions to effect a reaction between said aluminum and said sodium hydroxide to produce a pore-forming gas.

2,534,916
PORTABLE TYPE TUFTING MACHINE
Edward King, Dalton, Ga.
Application January 13, 1949, Serial No. 70,615
4 Claims. (Cl. 112—80)



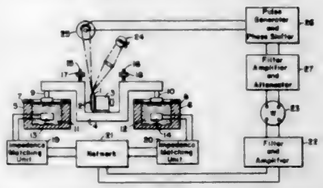
1. A tufting machine, comprising a portable support, a shaft carried by the support, an eccentric having an opening removably receiving the shaft so that the eccentric may be removed from the shaft by an axial movement of the eccentric, said opening having a substantially close fit upon the shaft and concentric with the shaft so that the eccentric cannot be shifted perceptibly transversely of the shaft, said eccentric having a periphery which is free from a groove, clamping elements carried by the shaft and arranged upon opposite sides of the eccentric to engage therewith, one clamping element being removable from the shaft, means carried by the shaft to bring the clamping elements into clamping engagement with the eccentric and permit of the removal of one clamping element, a guide carried by the support, a plunger mounted to reciprocate within the guide, an eccentric strap having a connecting part secured to the plunger, said eccentric strap having an opening to receive the periphery of the eccentric, the eccentric being removable from the opening of the eccentric strap by an axial movement of the eccentric while the strap remains secured to the plunger, and tufting means including a needle secured to the plunger.

2,534,917
SYNCHRONIZED HOIST CONTROL FOR DREDGE DRAGLINES
George E. King, Edgewood, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 19, 1947, Serial No. 742,613
15 Claims. (Cl. 37—58)



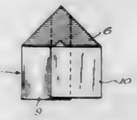
1. In dredging apparatus on a dredge ship the combination of, a drag-pipe supported at one end by the dredge ship for pivotal movement with respect thereto, said drag-pipe being formed of two sections and having a flexible coupling connecting said sections to provide for movement of said sections angularly relative to each other, means for raising and lowering said pipe comprising a drag-line connected to said pipe adjacent its free end and a drag-line connected to said pipe adjacent said coupling, each of said drag-lines, respectively, being provided with a drag-winch and a motor for operating the same, control means for said motors operative to maintain the sections of said pipe in a selected angular position with respect to each other during raising and lowering operation of said pipe, and means for adjusting said control means to effect unequal operation of said motors and thereby angularly displace said drag-pipe sections relative to each other a selected amount, said control means being operable after operation of said adjusting means to maintain said sections angularly displaced said selected predetermined amount during subsequent raising and lowering operations of said drag-pipe.

2,534,918
APPARATUS FOR BALANCING ROTORS
Herbert M. Kroft, Baltimore, and Milton P. Vore, Catonsville, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 11, 1948, Serial No. 64,873
10 Claims. (Cl. 73—66)



1. Apparatus for testing rotors for unbalance, comprising a support for the rotor to be tested, vibratory mounting means for said support comprising a container filled with liquid and having a yieldable diaphragm which forms a wall portion of said container, said support being mounted on said diaphragm so as to be capable of vibration in different directions, and an electric pressure gauge disposed in said container to respond to pressure variations of the liquid.

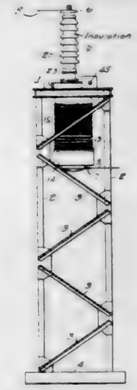
2,534,919
PHOTOGRAPHIC MOUNTING CORNER
George F. Lartz, Suring, Wis.
Application August 31, 1949, Serial No. 113,284
1 Claim. (Cl. 40—158)



A mounting device of the character described, comprising a body formed of a single elongated strip of material having parallel edges, both sides of said strip being gummed, said strip having a triangular notch in one side thereof, the base of said notch being in alignment with said edge, a second triangular notch in the opposite edge of said strip having the base thereof in alignment with the second edge, the apices of said notches being in spaced aligned relation, a triangular member applied to one of the gummed surfaces of said body intermediate the ends thereof, the base of said triangular member being coincident with the second-mentioned edge of said strip, the apices of said first-mentioned notch and said triangular member coinciding and the converging sides of said triangular member being in alignment with the sides of said first-mentioned notch, the ends of said material being folded under said triangular member along the sides thereof and secured together in overlapping relation by the gummed surfaces thereof, thereby forming a pocket, the gummed undersurface of which is adapted to be secured to a mounting surface and the gummed inner surface of which is adapted to secure the corner of a card or picture received in said pocket.

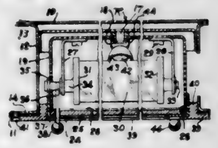
2,534,920
CIRCUIT INTERRUPTER
Leon R. Ludwig, Wilkinsburg, and Benjamin P. Baker, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1945, Serial No. 591,047
3 Claims. (Cl. 200—150)

1. In a circuit interrupter, supporting means at ground potential, a casing a substantial portion of the side walls thereof being of insulating material and providing for a difference of potential between the ends of the casing, only a single terminal bushing for the interrupter, the terminal bushing including an elongated conductor having insulation disposed thereabout, the terminal bushing being supported intermediate the ends thereof by the grounded supporting means, the terminal bushing projecting into one end of the casing and having the interior end thereof terminating adjacent the mid-portion of the casing, a stationary line terminal disposed at the external end of the terminal bushing, a substantially stationary contact and line terminal means for the interrupter both disposed adjacent and at the potential of the other end of the casing, a movable contact disposed within the casing and movable during the opening operation toward the interior end of the terminal bushing, and



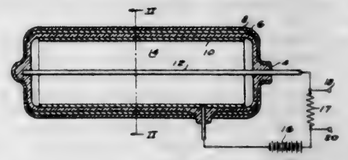
actuating means for the movable contact carried by and at the potential of the grounded supporting means.

2,534,921
AUTOMOBILE DOME LIGHT
Kenneth E. Lyman, Lake Forest, Ill., assignor to Tucker Corporation, Chicago, Ill., a corporation of Delaware
Application May 8, 1947, Serial No. 746,803
3 Claims. (Cl. 240—7.35)



1. In an automobile dome light, a housing, pivot means for rotatably mounting said housing in the roof of an automobile for rotation about a vertical axis, a light source carried by said housing, a prism carried by said housing and rotatably mounted on a horizontal axis normal to said pivotal mounting, and means including a lever projecting below the housing to rock said prism relative to said light source.

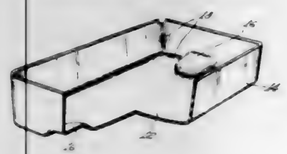
2,534,922
BROAD BEAM RADIATION DETECTOR, USING ULTRAVIOLET AS AN INTERMEDIATE STEP
Fitz-Hugh B. Marshall, Glenshaw, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 11, 1948, Serial No. 32,348
12 Claims. (Cl. 250—83.6)



1. In combination, an electric discharge device having an envelope of ultra-violet transmitting

material, a boron-impregnated phosphor coating on the outer surface of said envelope, a transparent conducting coating on the inner surface of said envelope, a center conductor in the interior of said tube, and a gas which is readily ionized by the ultra-violet light produced by said boron-impregnated phosphor coating between said center conductor and said transparent conducting coating and facilities for impressing a potential between said center conductor and said transparent conducting coating so that electrons are attracted toward said center conductor.

2,534,923
THERMOSET LAMINATED MEMBER
Fritz J. Nagel, Oakland, and Bruce C. Nash, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 9, 1944, Serial No. 553,438
7 Claims. (Cl. 154—110)



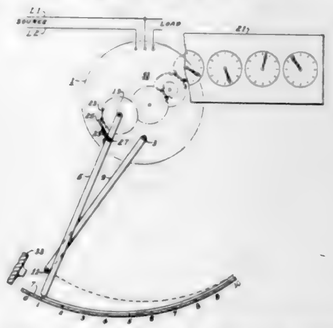
5. In the process of producing complex shaped members, the steps comprising applying to a fibrous sheet material at least 50% of its weight of the partial reaction product of from 35 to 75 parts by weight of an arylamine, 65 to 25 parts by weight of a phenol and from 0.8 to 1.5 mols of formaldehyde for each mol of phenol and arylamine, superimposing a plurality of the fibrous sheets with the applied partial reaction product, consolidating the superimposed sheets under heat and pressure of the order of 1000 pounds per square inch into a relatively flat fully cured, thermoset laminate, relieving the pressure and cooling the flat laminate, subsequently heating the laminate to a temperature of from 150° C. to 200 C. and subjecting the laminate to pressure of less than 100 pounds per square inch to form it into the predetermined complex shaped member and cooling the member to retain the shape.

2,534,924
MANUALLY OPERATED VEGETATION CLIPPER
Clarence T. Northquist, Seattle, Wash., assignor of one-third to George O. Brown, Seattle, Wash., and one-third to Lilah Brown Johnson, Minneapolis, Minn.
Application February 5, 1948, Serial No. 6,519
2 Claims. (Cl. 30—253)

1. A clipper comprising two substantially flat horizontal shear blades pivotally connected together near one end for relative shearing movement; a rigid handle having a hook shaped lower end portion fixedly secured to the lowermost shear blade substantially midway of the length of the blade and extending upwardly and over said two shear blades, the major portion of said handle being positioned substantially transverse to the length of said lowermost shear blade and at an oblique angle to the plane thereof; and another rigid handle pivotally connected with the uppermost shear blade substantially midway of the length of the blade and operable in a position substantially parallel to said first named handle, whereby said two handles cooperate to impart shearing movement to said two shear blades and to hold the shearing edges of said

blades in cutting engagement with each other on the cutting stroke in response to relative longitudinal movement of said two handles.

2,534,925
SCALE-DISTRIBUTION CONTROL FOR MEASURING DEVICES
Ambrose J. Petzinger, Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 29, 1948, Serial No. 24,083
10 Claims. (Cl. 171—34)

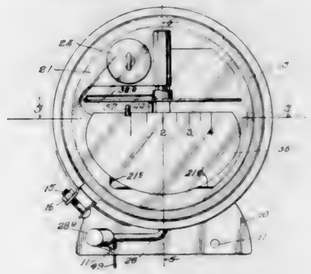


1. In a measuring device, an operating member, operating mechanism effective when energized by a variable quantity for actuating the operating member about a first axis in accordance with a first function of the quantity, an operated member, means mounting the operated member for rotation about an axis spaced from the first axis, said axes occupying fixed positions relative to each other, said operating member having a part engaging the operated member at a point displaced from a plane containing said axes throughout the range of movement of the members for moving the operating member in response to movement of the operated member, whereby the operated member is actuated in accordance with a second function of the quantity.

2,534,926
INSECTICIDE COMPRISING BENZENE HEXACHLORIDE AND TAR OILS
Newville F. Rea, Sumner, Wash.
No Drawing. Application June 23, 1947, Serial No. 756,555
4 Claims. (Cl. 167—29)

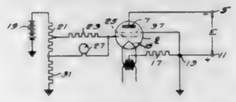
1. An insecticide comprising an emulsible concentrate wherein tar acids and tar acid oils are present to the extent of approximately 72%, and the remainder consists essentially of emulsifying agents and water, in which concentrate has been combined approximately 5% additional of benzene hexachloride containing approximately 10% of the gamma isomer of benzene hexachloride.

2,534,927
MILKING TIMER
Lorell John Schilling, Galesville, Wis., assignor to Babson Bros. Co., a corporation of Illinois
Application September 22, 1945, Serial No. 618,027
12 Claims. (Cl. 161—23)



1. A milking timer comprising: timing means adapted to operate continuously; indicating means; means for actuating said indicating means; and means to selectively operate said actuating means continuously or to render it inoperative after an indication.

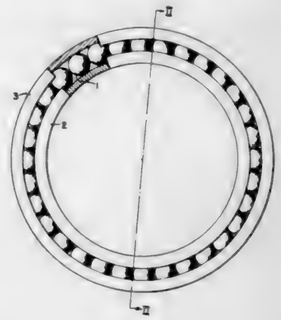
2,534,928
INVERTED TETRODE VACUUM TUBE VOLTMETER
Robert J. Schneeberger, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1948, Serial No. 23,725
6 Claims. (Cl. 171—95)



1. For use in measuring a potential impressed between a positive and a negative terminal, the combination comprising an electron tube having a cathode connected to said positive terminal, a plate connected to said negative terminal, a control grid, and a screen grid, voltage means to maintain the control grid positive with respect to the cathode, a meter in circuit with said control grid to measure control grid current, and connections for maintaining said screen grid at a potential negative with respect to said cathode.

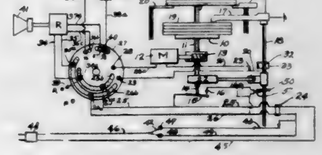
2,534,929
BEARING
Mortimer A. Schultz, Baltimore, and Claude M. Skinner, Jr., Catonsville, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 22, 1946, Serial No. 663,914
3 Claims. (Cl. 308—188)

1. A completely non-magnetic antifriction bearing, comprising inner and outer race members both consisting of non-magnetic metal throughout and having a hardness above 40 C scale Rockwell, and ground and lapped bearing



balls of tempered heat-resistant type glass disposed between said race members and electrically insulating them from each other.

2,534,930
COMBINED AUTOMATIC PHONOGRAPH AND RADIO
Charley Simmons, Denver, Colo.
Application January 24, 1948, Serial No. 4,203
1 Claim. (Cl. 179—100.11)



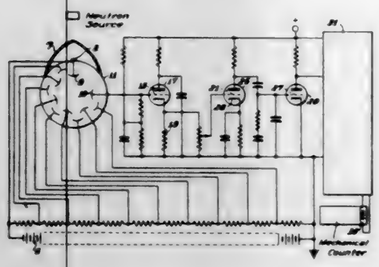
In a combined automatic record changing phonograph and radio of the type having a turntable, a motor for operating the turntable, a tone arm mounted to oscillate about a vertical pivot for vertical movement and a double pole single throw switch; an electric circuit having a plug at one end, a conductor extending from one of the plug terminals to a terminal on the double pole switch, another conductor extending from the other terminal of the plug to the other terminal of the double pole switch, said last conductor having two switches in series, the switch nearer the double pole switch terminal being normally closed, the switch nearer the plug being a single pole double throw type having a movable switch member connected with said other plug terminal and two contacts positioned for alternate engagement by the movable switch member, one of said contacts being connected with the adjacent terminal of the normally closed switch, the other contact being connected with the far terminal thereof forming a by-pass, conductors connecting the motor terminals with the other double pole switch terminals, one of said last named conductors having a normally closed switch in series therewith, means operated by the downward movement of the tone arm when the last record of a series has been played for opening both of said normally closed switches, thereby stopping the motor, and means comprising said

double pole switch for disconnecting the radio from the tone arm and connecting it with an antenna.

2,534,931
CURRENT TRANSFORMER
Theodore Specht, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1947, Serial No. 745,026
5 Claims. (Cl. 171—777)

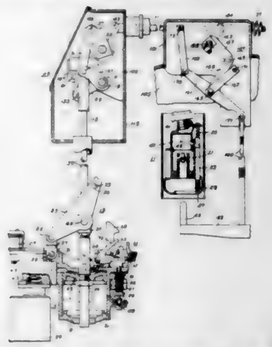
1. A current transformer including a core structure forming a closed magnetic circuit, a primary winding and a secondary winding positioned about a common portion of the magnetic circuit, and means for lowering the phase angle between the primary current and the reversed secondary current by increasing the internal reactance of the transformer including magnetic shunts positioned between the primary winding and secondary winding to guide leakage magnetic flux passing between the primary winding and the secondary winding to increase the leakage flux in the unwound portion of the core and thus increase the flux density in that portion of the core not surrounded by the windings above the flux density in that portion of the core surrounded by the windings.

2,534,932
METHOD OF DETECTING ELEMENTARY PARTICLES
Kuan-Han Sun, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 19, 1947, Serial No. 755,636
2 Claims. (Cl. 250—83.6)



1. A detector for elementary particles of the neutron type comprising a detecting material sensitive to said elementary particles of the neutron type and capable of emitting elementary particles of the proton type, a phosphor capable of emitting light when said elementary particles of the proton type are incident thereon as a result thereof, means producing a substantial dark current for amplifying the pulse of energy emitted by said phosphor, and a discriminator connected to the output of said means for amplifying for suppressing pulses under a predetermined amplitude.

2,534,933
CIRCUIT INTERRUPTER WITH SPEED CONTROL OF CONTACT
Roswell C. Van Sickle, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1948, Serial No. 58,763
8 Claims. (Cl. 200—82)

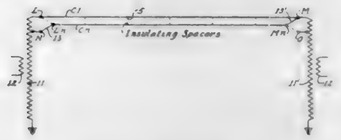


1. A circuit interrupter having a series of connected parts including a shaft which are moved during the entire movement of the interrupter to closed position, power operated means for moving said series of parts to close the interrupter, a pivoted mass, an arm on said shaft, and connecting means at all times connecting said mass to said arm and having its line of action movable over center, said parts and said mass being constructed and arranged in a manner whereby said over center movement causes said mass to absorb a part of the energy of the moving parts at a predetermined time during a closing movement.

2,534,934
STRAPLESS SUPPORTER OR SHIELD
Fermin Viniegra, Chicago, Ill.
Application October 11, 1949, Serial No. 120,796
7 Claims. (Cl. 128—132)

1. A strapless supporter or shield having an anterior supporting or shield portion and a posterior portion, said anterior and posterior portions being connected by a crotch-engaging portion maintaining the anterior and posterior portions in operative relation to engage respectively the pubic and sacral prominences of a wearer, said anterior portion having side margins arranged to conform huggingly to the groin contours of the wearer and being relatively movable to one another so as to maintain the contour hugging relationship for adaptation to muscular movements of the wearer.

2,534,935
SLEET-MELTING ON HIGH-VOLTAGE LINES
Charles F. Wagner, Swissvale, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 11, 1948, Serial No. 32,345
5 Claims. (Cl. 171—97)



4. Remedial means for both ice and corona in a high-voltage aerial transmission-line for electric power, comprising the combination of a plurality of transmission-line conductors suspended in the open air; each line-conductor being a bundle-conductor assembly comprising a plurality of bare individual-conductors and a plurality of insulating spacers distributed at spaced points along said individual-conductors for holding the same physically in substantially parallel-spaced relation in air; said plurality of spaced individual-conductors of each line-conductor including at least two individual conductor-circuits which are normally insulated from each other along a material length of the transmission-line; a plurality of transformers at spaced points along the length of the transmission-line, said transformers having corresponding-voltage taps in addition to their terminal-voltage points; and means whereby one of the individual conductor-circuits is energized from the terminal-voltage points of successive transformers and whereby the other individual conductor-circuit is energized from the corresponding-voltage taps of successive transformers.

2,534,936
STABILIZED VINYL CHLORIDE POLYMERS
Henry A. Walter, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 10, 1948, Serial No. 43,533
10 Claims. (Cl. 260—45.7)

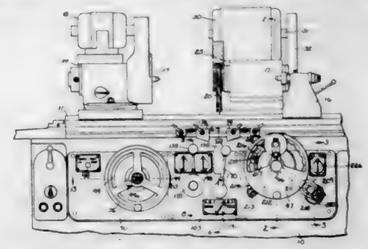
1. A composition comprising 100 parts of a polymer consisting predominantly of polyvinyl chloride and, as a heat stabilizer therefor, from 0.5 to 10 parts of an aliphatic ester of an aryl thiosulfonic acid of the formula

$$R—Ar—SO_2—S—R_1$$

in which R stands for a radical from the group consisting of hydrogen and aliphatic groups having less than 8 carbon atoms, R_1 stands for an aliphatic group having less than 5 carbon atoms and Ar stands for an aryl group.

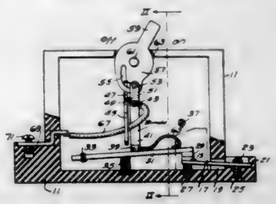
2,534,937
GRINDING MACHINE
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application November 28, 1947, Serial No. 788,725
13 Claims. (Cl. 51—233)

1. In a grinding machine having a longitudinally reciprocable table, a piston and cylinder to reciprocate said table, a reversing valve therefor, an end chamber in each end of said valve, a pilot valve, a stop and start valve to control the exhaust of fluid from said cylinder to start and stop table reciprocation, a table-actuated lever which is operatively connected to shift both the pilot and reversing valves to stop the table, fluid connections between each of the end chambers and the pilot valve positively to shift the reversing valve slowly, a throttle valve in each



of said connections to regulate said slow movement of the reversing valve in either direction to provide a predetermined table dwell at reversal, and separate ports in the reversing valve which are opened after a predetermined slow movement to by-pass fluid around the throttle valves into the end chambers rapidly to shift the reversing valve into its reverse position.

2,534,938
CIRCUIT BREAKER
George C. Woodward, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 6, 1948, Serial No. 13,497
10 Claims. (Cl. 200—116)

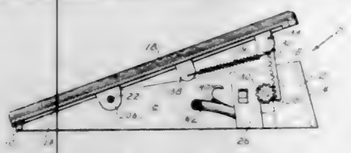


1. A circuit breaker comprising a switch member biased to open position and movable to open and close the circuit, a bimetal element having latch means thereon normally engaging and releasably restraining said switch member in closed position, said bimetal element being longitudinally movable to effect movement of said switch member to open and closed positions, a pivoted operating handle at all times connected to said bimetal element and manually rotatable to effect reciprocal longitudinal movement of said bimetal element, and said bimetal being operable in response to overload currents to release said switch member to thereby effect automatic opening movement of said switch member.

2,534,939
PEDAL CONTROL FOR RHEOSTATS
Elbern H. Alkire, Easton, Pa.
Application December 5, 1949, Serial No. 131,166
3 Claims. (Cl. 201—48)

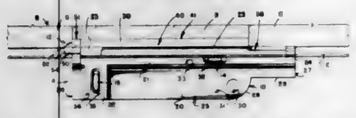
1. In a control unit, an elongate base having a relatively high front wall, a relatively low rear wall, and side walls therebetween, each of said side walls having a back portion substantially

one-third the length thereof and a forward portion substantially two-thirds the length thereof, said back portion having a top edge inclined relatively steeply upwardly and forwardly from said rear wall to the intersection of said portions, said forward-portion having a top edge inclining relatively gently from said intersection upwardly and forwardly to said front wall, a pivot extending substantially transversely of said base substantially at said intersection, an elongate pedal, means mounting said pedal on said pivot at a



location substantially one-third along the length of said pedal from rear to front whereby said pedal may be rocked about said pivot between two extreme positions, in the first of which position said pedal engages against the top edges of said forward portions and in the second of which positions said pedal engages against the top edges of said back portions a rheostat affixed in said inset base, said rheostat having a rotatable shaft extending horizontally, a pinion on said shaft, and a rack pivoted beneath said pedal and drivingly engaging said pinion.

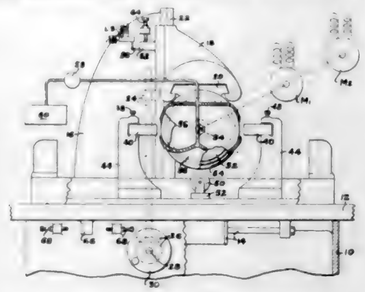
2,534,940
WALL GUIDE
Elvin D. Arnold, Lima, Ohio
Application April 22, 1948, Serial No. 22,517
4 Claims. (Cl. 33—85)



1. In a wall guide, a body portion including an elongated support section having a forward edge and upper face, a second section supported thereby and having an upper face and an elongated rib-carrying section rearwardly of said forward edge and having an upper face, spaced above the horizontal plane of said first-named face, a rear face with a first portion of said rear face substantially normal to said upper face of said rib-carrying section and a second portion of said rear face inclined to the vertical plane of said first portion and extending longitudinally of said elongated rib-carrying section from one end of said first portion, and an elongated rib extending horizontally from said first portion to and ending at said one end and free of said inclined portion, the length of said rib being substantially the length of a conventional brick.

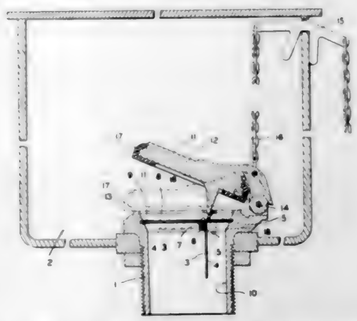
2,534,941
METHOD AND APPARATUS FOR GRINDING
William G. Baldenhofer, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application January 16, 1948, Serial No. 2,566
4 Claims. (Cl. 51—98)

1. A grinding machine comprising, a support, a rotatably mounted grinding wheel of given diameter secured on said support and vertically reciprocable thereon and having a peripheral work surface, a table positioned on said support below and in spaced relation to said grinding wheel and extending transversely thereto, said table including means for horizontally reciprocating said table on said support, first and second work mounts for workpieces secured on said table one on each side radially of said grinding wheel, said work mounts inclusive of workpieces mounted thereon defining therebetween a spacing greater than said given diameter of said grinding wheel, said work mounts being adapted for the positioning of workpieces thereon in true



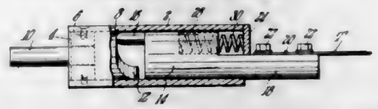
radial disposition to the work surface of said grinding wheel and being movable radially relatively to said grinding wheel with said table for alternately engaging the work pieces with said wheel, a rotatable crush forming roll secured on said table co-planar with said grinding wheel and interposed midway between said work mounts and having the work surface thereof in true radial disposition relative to said grinding wheel for engagement therewith in planar movement, and means on said support for driving said grinding wheel at grinding speed.

2,534,942
OUTLET VALVE HELD OPEN BY FLOW
Leslie Clement Barling, Johannesburg, Transvaal, Union of South Africa
Application July 30, 1947, Serial No. 764,855
In Great Britain April 1, 1947
9 Claims. (Cl. 4—65)



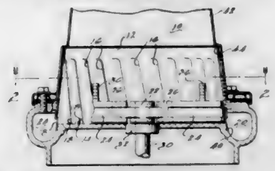
1. A valve of the type described comprising a butterfly member pivotally mounted within an outlet from a cistern and arranged, when free to move about its pivot under the action of gravity alone, to lie in a materially vertical plane; a projection associated with said butterfly member; a pivotally mounted flap member disposed above said butterfly member and adapted to be raised from and lowered onto a seating formed on said outlet; and a depending lug on the underside of said flap member adapted to engage with the projection on the butterfly member so as to maintain the latter in a materially horizontal plane when the flap member rests on its seating.

2,534,943
RECIPROCATING DEVICE
Stephen J. Bergeson, Palmer, Mass.
Application October 6, 1949, Serial No. 119,907
1 Claim. (Cl. 74—56)



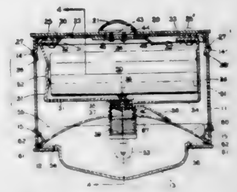
Tool operating mechanism comprising in combination, an elongated cylindrical tubular body, a rear cap secured in the rear end of said body, a cam rotatable in the forward end of said body having a rise and a shank rotatably extending through said rear cap adapted to be engaged by a rotating chuck, a cylindrical slide reciprocable in said body forwardly of said cam having a follower extending rearwardly for engagement by said cam, an extension extending forwardly from said slide, means for securing a tool to said extension, a forward cap secured to the forward end of said body, and spring means urging said slide towards said cam, a longitudinal side of said extension being flat and said forward cap having a flat side in sliding relation with the flat longitudinal side to prevent rotation of said slide, said spring means including a coil spring adjacent the flat longitudinal side of said extension having a forward end against said forward cap and a rear end in a socket provided in the forward end of said slide and having a longitudinal axis disposed in substantial alignment with the longitudinal axis of said follower.

2,534,944
GARBAGE DISPOSAL APPARATUS
Roland L. Bissey, Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich., a corporation of Michigan
Application August 2, 1946, Serial No. 687,835
2 Claims. (Cl. 241—257)



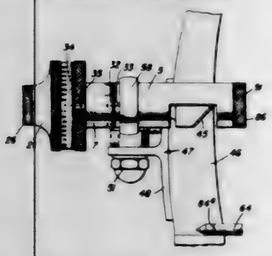
1. Garbage disposal apparatus comprising an upright chamber for receiving garbage, a shredder ring seated upon and extending upwardly from the periphery of the bottom wall of said chamber and defining the side wall of said chamber at the bottom thereof, said ring having an internal saw tooth surface of annular form defining a plurality of axially extending cutting teeth disposed around said chamber with a series of axially extending radial openings disposed around the bottom of said chamber, said openings having portions of said teeth following and forming one side of said openings, said openings forming a restricted discharge outlet for reduced material, power driven rotary means in the bottom of said chamber for impelling material against said teeth and through said openings, said power driven rotary means comprising a rotary hub and a plurality of radially extending hammers, each hammer being pivotally connected to said hub and adapted to swing in a plane normal to the axis of rotation of said hub, said hammers being positioned immediately above the bottom wall of said chamber so as to sweep material on said bottom wall against said teeth during operation of said power driven rotary means, said hammers being of a substantial height but of less height than said shredder ring and the outer ends of said hammers being provided with vertically extending teeth arranged in parallel relation to said shredder ring, at least one of said hammers having an upwardly projecting agitator positioned adjacent the swinging end thereof, said shredder ring teeth extending from the bottom of said chamber to above the top of said hammers and said agitator, and said openings terminating at opposite extremities within the plane of said hammers and substantially below the top thereof, the construction and arrangement of said shredder ring teeth and hammers being such that material rotated by said hammers in said chamber is forced downwardly along said teeth and into said openings during operation of said power driven rotary means.

2,534,945
FLASHLIGHT
Samuel J. Booth, Cleveland, Ohio
Application June 12, 1947, Serial No. 754,143
9 Claims. (Cl. 240—6.45)



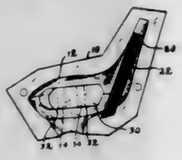
1. A flashlight comprising, in combination, a thin flat case defining a generally rectangular enclosure one of whose narrow edge faces includes an opening extending over one-half the length of said edge, long, narrow cup-shaped light transmitting means mounted on said case for closing said edge opening with the bottom and side edges of said cup-shaped means projecting outwardly from said rectangular opening, battery means mounted longitudinally within said case, long narrow reflector means comprised of spring material curved in an arc and parallel to its axis of curvature mounted within said case adjacent said open narrow edge thereof with the ends of said reflector biased by the curvature of said spring material against the side walls of said case, said reflector having a hole therethrough, a light bulb, means mounting said light bulb within said case and extending through said hole in the reflector means with its longitudinal axis extending in a direction substantially perpendicular to the longitudinal axis of said battery means and substantially midway between the ends of said battery means, said light transmitting means being bowed outwardly from said case and the tip of said bulb being positioned within said cup-shaped means and outside said case whereby light from said bulb is substantially non-directional, and means for connecting said light bulb to said battery.

2,534,946
BOW SIGHT
Gene T. Bradley, Maywood, Calif.
Application September 18, 1947, Serial No. 774,741
1 Claim. (Cl. 88—2.4)



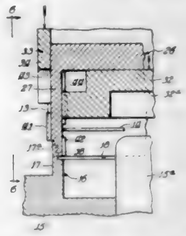
In a bow sight, a barrel having front and rear ends and a bottom opening, a rear end sighting element carried by said barrel, a pair of front and rear prisms, the rear prism having a sighting element thereon, a mounting for holding said prisms to the front end of the barrel with said prisms superposed in the line of sight transversely thereof comprising a head on said barrel, a holder for the rear prism rotatable in said head, a cap rotatable on the head with the front prism fixed therein, means enclosed by said head and cap operative by rotation of said cap to rotate said prisms equally and in opposite directions, whereby to deflect an image of a target through an angle equal to the combined angles of the prisms with the image appearing to travel in a straight line when viewed through the rear sighting element, said mounting being rotatable as a unit relative to said barrel to cause the image to travel in vertical and horizontal lines, selectively, under rotation of the front prism relative to the rear prism, a mirror mounted in said barrel with an edge in alinement with said sights to provide an added sighting element and being exposed through said opening to reflect the position of an arrow held to said bow, means for adjusting the mirror angularly with respect to the longitudinal axis of the sights, and means for attaching the barrel to a bow.

2,534,947
GOLF CLUB HEAD
Elvin M. Bright, Milwaukee, Wis.
Application December 31, 1946, Serial No. 719,475
2 Claims. (Cl. 273—80)



1. A molded golf club head including a tubular member of molded fibrous material having a roughened surface, a plastic molded head member having the molding material firmly embedded into the roughened surface of the tubular member, glass fibers in the plastic molded head, said glass fibers being concentrated around portions of the tubular member, and layers of ornamental design extending along one face of the golf club head, said layers being formed in situ during the molding operation.

2,534,948
INSERT APPLYING JIG FOR MOLDS
Olin Brummer, Crete, and Elmer F. Heimbuch, Chicago Heights, Ill.
Application December 11, 1948, Serial No. 64,778
6 Claims. (Cl. 18—1)

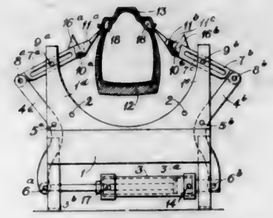


4. An insert applying jig, comprising, an inverted cup-shape head for holding on its outer periphery a spring band and having an inner periphery of uniform diameter for holding on said inner periphery a spring wire, said head being tapered from its outer periphery toward its inner periphery at its lower end, a stripping sleeve telescoping with said head on the exterior of the head, a plunger snugly fitting within the head, said head being relatively reciprocable with respect to the sleeve and plunger, said plunger providing a stripping element for discharging the wire from the head through its lower end and said sleeve providing a stripping element for pushing the band off the head, and a spring retracting the plunger within the head and the sleeve to a position spaced from the lower end of the head.

2,534,949
WELL ACTIVATOR
John R. Burress, Arlington, Tex.
Application April 22, 1946, Serial No. 663,929
7 Claims. (Cl. 166—20)

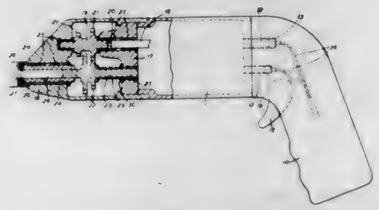
1. A well activator including a frame arranged to enter the casing of a well and having an anvil in its lower end, a rod connected to and depending from said anvil, a suction cup mounted on said rod in sealing engagement with said well casing, a sleeve slidable on said rod below and in spaced relation to said suction cup, a well packer disposed on said sleeve in sealing engagement with said well casing, a hub fixed on said rod between said suction cup and packer, a series of radially disposed casing engaging arms pivoted to said hub for movement into and out of gripping engagement with the walls of said casing and adapted upon downward movement of said frame relative to said packer to be engaged and extended into gripping engagement with the walls of said casing by said packer under pressure of fluid therebelow, to hold said packer against upward displacement, and means reciprocable in said frame to impinge said anvil for driving said packer downwardly against said fluid pressure.

2,534,950
AXIALLY COLLAPSING TYPE TIRE BEAD BREAKING DEVICE
Melvin D. Butterfield and Lloyd W. Mullins, Wichita, Kans.
Application May 22, 1946, Serial No. 671,599
5 Claims. (Cl. 157—1.28)



1. A machine for breaking the beads of a tire from its rim comprising, in combination, a frame, oppositely disposed and substantially horizontally arranged pusher links supported in said frame for movement in substantially endwise direction towards and away from one another, oppositely disposed thrust pieces pivotally connected at their outer ends to the adjacent ends of the pusher links so as to swing in a vertical plane, cooperating means on the connected ends of the pusher links and thrust pieces for causing said thrust pieces to extend generally inwardly from said pusher links and to assume a normal position in which they are slightly upwardly inclined and providing also that the thrust pieces can swing in upward direction only upon their free ends engaging a tire bead, the thrust pieces converging to blade-like edges which are adapted to penetrate the joint between tire bead and rim flange, cooperating stop means on said pusher links and thrust pieces for precluding upward swinging movement of the thrust pieces past the vertical, and power means for actuating the pusher links towards and away from one another.

2,534,951
UNIVERSAL ELECTRICAL APPARATUS
Donald Marshall Cargill, Derby, England
Application September 19, 1945, Serial No. 617,308
In Great Britain September 8, 1944
8 Claims. (Cl. 74—472)

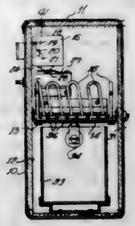


1. A mechanism for imparting rotary movement to a driven element including variable speed gearing, a slidably movable rotary driving element operated by said gearing, the change-speed of the gearing being effected by the slidable movement of said driving element, a sleeve actuated by the driving element, means to operatively connect the driven element to the sleeve, means for determining the axial position of the driven element relative to the sleeve, and means for urging the driving element against the end of the driven element.

2,534,952
SHELF BRACKET
Curtis G. Comer, Dayton, Ohio, assignor of one-half to Frank A. Nelis, Dayton, Ohio
Application July 8, 1947, Serial No. 759,576
5 Claims. (Cl. 248—243)

1. In combination, a vertically disposed supporting member having a plurality of vertically spaced apertures therein, a sheet metal bracket having a plurality of hook shaped projections at one end arranged for registry with certain of said vertically spaced apertures and for hooking on to said supporting member, said bracket having a cam receiving slot at said end, a cylindrical cam element disposed within said slot and in engagement with said supporting member, said cam element having a peripheral groove intermediate its ends whereby a reduced cylindrical portion eccentric to the end portions is formed, the axis of said cylindrical cam element being arranged perpendicular to the plane of said sheet metal bracket with the outer periphery of the cam in engagement with said supporting member and with the bottom of said groove in engagement with said bracket.

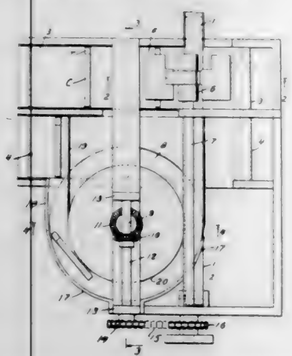
2,534,953
ELECTRICAL INCINERATOR
Maurene D. Curry, Dallas, Tex.
Application November 13, 1947, Serial No. 785,618
1 Claim. (Cl. 219—35)



In an electric incinerator the combination comprising an insulated cabinet having a hinged cover, a foraminous rack removably disposed longitudinally in said cabinet, an electric circuit, a heating coil in said circuit whose convolutions transversely overlie said rack and are disposed vertically at the ends and sides thereof to enclose an article for incineration, a switch in said circuit, a clock spring and winding gear train, ratchet means adapted to be operated by the opening and closing action of the cover of said cabinet to wind said spring, an arm pivotally connected between said cover and ratchet means for actuating the latter, a cam rotated by said gear

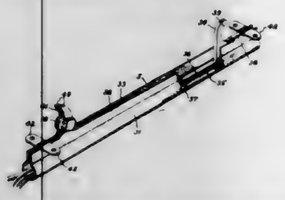
train to actuate said switch to energize and de-energize said circuit, a reciprocable grate overlying said foraminous rack, means exteriorly of said cabinet for actuating said grate and means in said cabinet below said rack for receiving the residue of charred articles passing through said rack.

2,534,954
CIGARETTE TURNING DEVICE
John T. Dalton, Durham, N. C., assignor to The American Tobacco Company, New York, N. Y., a corporation of New Jersey
Application November 2, 1948, Serial No. 57,928
3 Claims. (Cl. 198—31)



1. Apparatus for delivering cigarettes from a cigarette making machine and reversing alternate cigarettes comprising a belt to which the cigarettes are initially delivered, a pair of belts traveling at right angles to the first belt, a rotatable device arranged over the first mentioned belt in alignment with one of said pair of belts to deliver alternate cigarettes thereto, a rotating disc intersecting the path of the first belt beyond the rotatable device to which the other alternate cigarettes are delivered, and a guide extending across the disc and terminating over the second pair of belts to deliver cigarettes from the disc to the second of the pair of belts with the ends of such cigarettes reversed.

2,534,955
LAMP HOLDER FOR CIRCULAR LAMPS
Frederick C. Dazley, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 23, 1945, Serial No. 624,036
5 Claims. (Cl. 240—51.12)

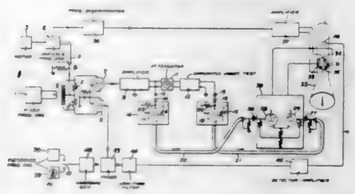


1. A lamp holder for a tubular lamp formed as a loop and having a contact base in its periphery comprising, in combination, a supporting bracket adapted to extend across the loop of the lamp, a member extending laterally from said bracket and being provided with a curved surface extending around a portion of the periphery of the lamp, a contact receptacle located in the curved surface of said member and adapted to engage the contact base of the lamp for making an electrical connection therewith, and a second member slidably mounted on said bracket and extending laterally therefrom, said second member being provided with a curved surface for engaging and supporting the periphery of the lamp at a point spaced from the contact base of the lamp, and spring means for biasing said second member into engagement with the lamp.

2,534,956
LAMP HOLDER FOR CIRCULAR TUBULAR LAMPS
John M. Pistey, Fairfield, Conn., and Frank C. De Reamer, Lake Worth, Fla., assignors to General Electric Company, a corporation of New York
Application April 15, 1946, Serial No. 662,128
9 Claims. (Cl. 240—51.12)

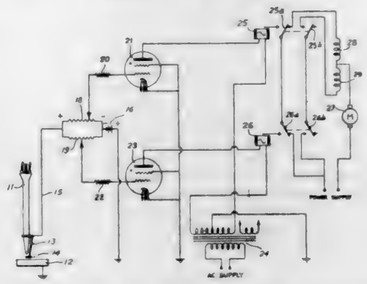
2. A lampholder for a circular tubular lamp having a tubular base with contact pins extending radially from the base, said lampholder comprising an insulating member having a curved contour with a concave surface, a portion of which is shaped to engage the cross-sectional periphery of the lamp base, a plurality of lamp contact pin receiving cylindrical contact members recessed in said concave surface of said insulating member, contact elements freely floating in said contact members and spring means biassing said contact elements toward said surface.

2,534,957
RESPONSE CURVE INDICATOR
Jean L. Delvaux, Paris, France, assignor to General Electric Company, a corporation of New York
Application July 16, 1947, Serial No. 761,327
In France March 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 6, 1965
4 Claims. (Cl. 175—183)



1. A phase distortion analyzer comprising means for impressing a varying frequency test signal on apparatus to be tested to obtain an output signal therefrom, an oscilloscope with two deflecting means operative in respectively transverse directions for providing a trace on the indicating means of said oscilloscope, means for actuating one of said deflecting means in accordance with variations in frequency of said test signal, means for algebraically combining said test signal and said output signal to actuate the other of said deflecting means, and means for applying to said oscilloscope a marking voltage corresponding to a predeterminable adjustable frequency within the limits of variation of frequency of said test signal to calibrate adjustably the trace on said indicating means.

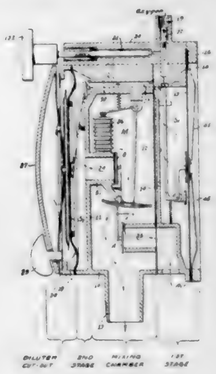
2,534,958
METHOD AND APPARATUS FOR CONTROLLING TORCH SPACING
George M. Deming, deceased, late of Orange, N. J., by Leonard G. Brown, administrator, South Orange, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application January 14, 1947, Serial No. 721,891
3 Claims. (Cl. 148—9)



1. The method of controlling the spacing of a torch tip from the surface of a work-piece which comprises positioning an electron emissive element in fixed relation to the torch tip and in the torch flame so that when heated by the flame it will emit electrons, passing an electric current through the flame and between said element and the work so that an electron stream is produced between said element and the work which lowers the electrical resistance of the portion of the flame between the electron emissive element and the work, and moving the torch tip toward and away from the work surface in accordance with changes in the electrical conductivity of said portion of the flame.

2,534,959
OXYGEN REGULATOR
George M. Deming, deceased, late of Orange, N. J., by Leonard G. Brown, administrator, South Orange, and John Gilroy, Westfield, N. J., assignors to Air Reduction Company, Incorporated, a corporation of New York
Application February 26, 1947, Serial No. 731,133
34 Claims. (Cl. 128—142)

1. In an oxygen regulator for aircraft breathing apparatus, a mixing chamber having an air inlet port and an oxygen inlet port, a suction-opened valve controlling each of said ports, and aneroid-controlled mechanical interconnections between said valves adapted for altitudes within a predetermined range to transmit displacements of the air valve to the oxygen valve to cause the oxygen valve to open when the air valve opens and to vary the displacement ratio of the two valves so that the displacements of the air valve become progressively smaller and those of the oxygen valve become progressively larger as the altitude increases within said range, said connections being further adapted at any given altitude within said range to allow each of

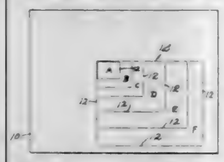


said valves to open an amount which is proportional to the suction in the mixing chamber.

2,534,960
FOLDABLE FRAME FOR SCREENS
Allan V. Ditty, Grosse Pointe, Mich., assignor, by mesne assignments, to Arthur J. Bradford, Chicago, Ill.
Application May 26, 1945, Serial No. 596,023
2 Claims. (Cl. 160—24)

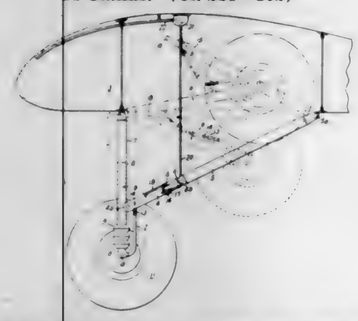
1. A foldable frame for a collapsible screen comprising a base, a cross bar spaced above said base, and two pairs of foldable uprights arranged adjacent one another and having their lower and upper ends pivotally connected to the central portions of said base and cross bar respectively, each of said uprights including a lower and an upper arm having a common pivotal connection to one another and disposed alongside one another in the folded position of said arms, said common pivot lying substantially at the outer extremity thereof, one of said arms having an extension overlapping the other arm beyond said common pivot and having an abutment engageable with said other arm at a location spaced away from said common pivot when said arms are extended, said common pivot and said abutment being disposed inwardly of a line joining the centers of the pivotal connections of the upright with the base and cross bar respectively when said frame is fully extended, thereby rendering said frame self-sustaining in its fully extended position.

2,534,961
PRINTING MASK
Henry Dunn, Detroit, Mich.
Application August 11, 1947, Serial No. 767,876
1 Claim. (Cl. 95—79)



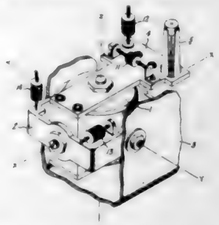
A printing mask comprising a single flat sheet of opaque material, and intermittent incisions in said single sheet of material to provide a plurality of various size areas to be detached and removed therefrom by pressing the area desired to be removed and detached, one of said areas outlined by intermittent incisions being of rectangular shape, said other areas being L shaped nested on two sides of said rectangular shaped area, two of said intermittent incisions being common to all of said removable areas.

2,534,962
RETRACTABLE UNDERCARRIAGE FOR AIRCRAFT
Cedric Harold Flurscheim, Bowdon, England, assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application May 30, 1945, Serial No. 596,737
In Great Britain October 16, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 16, 1961
11 Claims. (Cl. 244—102)



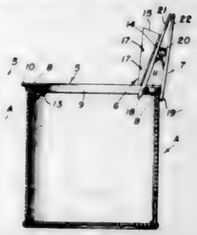
1. A retractable undercarriage for aircraft having in combination a landing wheel having a pivoted supporting leg for carrying said landing wheel between a retracted position and an extended position, means including a pair of toggle links connected by a knee joint and having pivotal connections at their extremities to said leg and to an aircraft respectively to brace said leg against that aircraft when extended to a straightened position, said links having relatively movable interlock members carried thereby into interlocking engagement for locking said links in said straightened position, oriented releasing means including a winch having a flexible tensile element connected with one of said interlock members for effecting an unlocking relative movement thereof and means for limiting said unlocking relative movement to cause said tensile element to apply a lifting force to the knee joint of said toggle links to unstraighten said toggle links and pull said leg and said landing wheel to the completely retracted position.

2,534,963
NUTATION DAMPER FOR GYROSCOPES
Francis R. Fowler, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application May 3, 1948, Serial No. 24,800
8 Claims. (Cl. 74—5.5)



1. In a gyro apparatus wherein the gyro gimbal structures may move such that the rotor shaft may oscillate with respect to a predetermined attitude, the oscillation damping arrangement comprising an inertia member, flexible means rigidly coupling said inertia member with one of said gimbal structures for support thereby and for vibration with respect thereto, said flexible means and said inertia member being proportioned such that the natural period of vibration thereof occurs when said one of said gimbal structures has a predetermined frequency of motion, and means cooperating with one of said gimbal structures and said inertia member for dissipating vibrational energy of said inertia member.

2,534,964
ATTACHMENT FOR PAINT CANS
Paul G. Frank, Allentown, Pa.
Application December 10, 1948, Serial No. 64,515
5 Claims. (Cl. 220—90)

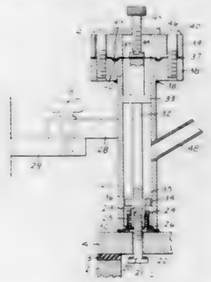


2. A paint can drip shield attachment of the style shown and described comprising a ring for lidding over and covering the keying channel in a can lip flange, said ring being split and having its split ends spaced apart, a clothes-pin clamp embodying spring held flange gripping jaws and finger-pieces for opening said jaws, and a splash guard mounted on said ring adjacent to said spaced ends, said clamp being rigidly mounted on said guard with its jaws situated and functioning in said space.

2,534,965
FILLING VALVE
Erwin R. Gaerttner and Max L. Yeater, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application August 17, 1949, Serial No. 110,852
3 Claims. (Cl. 137—21)

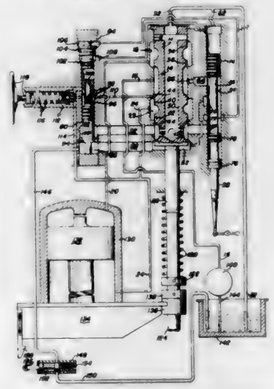
1. An envelope having an aperture through which gases may be admitted, a valve positioned

normally to seal said aperture comprising a stem member extending through said aperture, a head member attached to the end of said stem within said envelope, a gasket fitting about said stem against said head member, a cylindrical adjusting screw having inner and outer threads, said inner threads engaging threads on the outer end of said stem whereby said gasket may be forced against the inner wall of said envelope, detachable means for operating said valve to admit gases into said envelope comprising a helical spring



member positioned about said adjusting screw and having one end attached to a threaded member adapted to engage the outer threads of said adjusting screw whereby said spring member may be placed in compression and said adjusting screw may be moved outward with respect to said envelope without moving said stem, and means forming an enclosure adapted to be sealed to the exterior of said envelope about said spring member for forcing said adjusting screw inwardly whereby said valve may be opened to admit gases into said envelope.

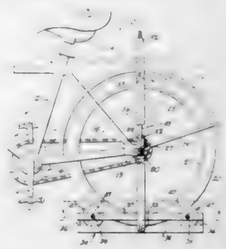
2,534,966
PRESSURE-RESPONSIVE REVERSING VALVE FOR HYDRAULIC MOTORS
George M. Geiger and Howard M. Purcell, Mount Gilead, Ohio, assignors to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware
Application May 27, 1946, Serial No. 672,603
12 Claims. (Cl. 60—52)



1. In a valve; a valve casing having a bore intersected by a plurality of ports; a valve member movable in said bore for controlling said ports; yielding means continuously urging said valve member in one direction and fluid operable means to move said valve member in the other direction; means to supply actuating fluid to said fluid operable means; second valve means connected between said fluid operable means and exhaust and having a member therein movable to connect or disconnect said fluid operable means with exhaust; and a third valve means responsive to fluid pressures at said fluid operable means for controlling the movement of said second valve means.

10. In combination with a fluid motor having first and second ports; a fluid source, a valve movable into a first position to connect said source with said first port and into a second position to connect said source to said second port; yielding means to move said valve into said first end position; fluid operable means to move said valve into said second end position, and motor controlled means to move said valve into an intermediate position; means to supply actuating fluid to said fluid operable means to move said valve from its intermediate to its second end position; motor controlled means to exhaust said fluid operable means to permit the movement of said valve into its first end position; and means selectively operable to permit or prevent the resupply of fluid to said fluid operable means when said valve is returned to its intermediate position by said motor.

2,534,967
EXERCISING STAND FOR BICYCLES
Henry W. Hapman, Detroit, Mich.
Application August 14, 1948, Serial No. 44,317
2 Claims. (Cl. 272—73)



1. An exercising stand for bicycles comprising a base adapted to rest upon a supporting surface, a pair of rollers journaled on said base in spaced relationship and separated from one another a sufficient distance to support the rear wheel of a bicycle out of contact with said supporting surface, a frame structure connected to said base on opposite sides of said wheel and extending upward therefrom, and a bicycle suspension structure depending from the upper portion of said frame structure and attachable to said bicycle adjacent said rear wheel, said suspension structure including adjusting mechanism for altering the length thereof from said frame structure.

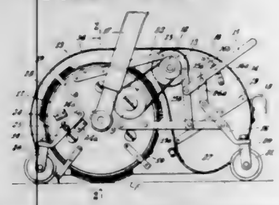
2,534,968
SPRING SASH BALANCE
Glenn B. Haas, Oak Harbor, Ohio, assignor to Star Sash Balance Corporation, Oak Harbor, Ohio, a corporation of Ohio
Application January 12, 1948, Serial No. 1,772
4 Claims. (Cl. 16—198)

1. A sash balance comprising a housing structure, an approximately tubular axle mounted in said housing structure, a flexible connector drum rotatably mounted on said axle in said structure

and having axially spaced opposite sides, a spring element interconnecting said drum and housing structure and adapted to store up energy upon rotation of said drum, an elongated flexible connector interconnecting said drum and sash and adapted to be wound upon said drum, and an

approximately tubular spacer within said drum and encircling said axle, said spacer having opposite end portions engageable with the inner surfaces of said opposite sides to hold said sides apart from one another in predetermined spaced relationship.

2,534,969
SURFACE WORKING MACHINE
Carl Hauser, Steffisburg, Switzerland
Application August 14, 1946, Serial No. 690,569
In Switzerland August 17, 1945
1 Claim. (Cl. 51—176)



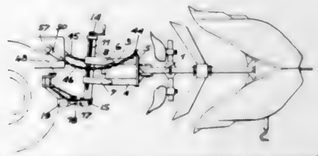
In a floor surface working machine having a rotatable and hollow drum accommodated in a casing which is equipped with front wheels and rear wheels; an electric motor positioned in said hollow drum and adapted to impart rotary movement to the latter, suction means in driving connection with said motor and disposed at a location above the axis of said drum within said casing, height-regulating means spacing said drum surface from said floor to be worked upon, said height-regulating means including hand-operated adjusting lever means pivotally mounted on the casing and a linkage connecting the adjusting lever means to the rear wheels, said linkage being pivoted to the casing above said rear wheels, whereby upon operation of said adjusting lever means said linkage swings said rear wheels to thereby regulate the distance of the axis of said drum with respect to the floor surface, and means connected to said front wheels for changing the relative position of the axis of the latter to that of said rear wheels.

2,534,970
CONNECTOR
George J. Hausman, Cincinnati, Ohio, assignor to McGraw Electric Company, a corporation of Delaware
Application February 8, 1946, Serial No. 646,265
3 Claims. (Cl. 24—81)

1. A connector for electrical conductors comprising a main member formed of yielding material and having a pair of spaced end portions, at least one end portion being shaped to receive a conductor, toggle link mechanism arranged to be extended to apply force outwardly towards each of said end portions to cause the conductor to bind against the said one end portion, said toggle link mechanism when extended being arranged to be moved slightly past dead center, and

stop means for arresting the motion in one direction of said toggle link mechanism when said toggle link mechanism is extended and is moved slightly past dead center, one element of said toggle link mechanism having a lip spaced from other portions of said connector when said toggle link mechanism is extended against which a tool may be forced to break the toggle.

2,534,971
IMPLEMENT COUPLING
Paul Henriod, Vaud, Switzerland
Application December 28, 1945, Serial No. 637,639
In France October 20, 1945
1 Claim. (Cl. 97—98)

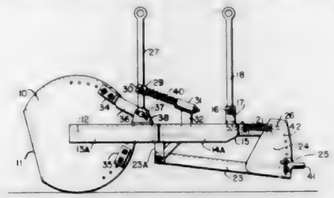


A coupling device for connecting an implement trailingly behind a power driven tractor comprising a substantially upright bar, means supporting said bar and connected to said implement, a rotatable spindle extending along and generally parallel to said bar and supported thereby, said spindle threadedly engaging said supporting means so that rotation of said spindle displaces said supporting means with respect to said bar, a rod member pivoted to said bar with the pivotal axis horizontal, whereby said bar may be swung about said pivotal axis relatively to said rod member, said rod member extending forwardly to said tractor, a vertical pivot pin on said tractor pivotally connecting said rod member to said tractor, and guide means on said tractor and engaging said rod member between said vertical pivot pin and said bar for horizontal swinging movement of said rod member with respect to said tractor.

2,534,972
EXCAVATING MACHINE
Wayne E. Hume, Hydro, Okla.
Application September 7, 1945, Serial No. 614,871
2 Claims. (Cl. 37—140)

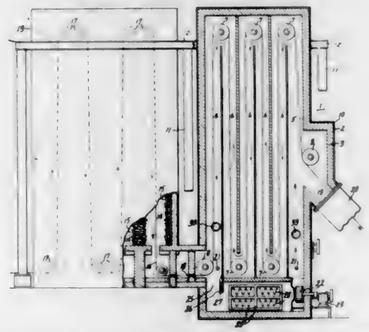
1. An excavating machine comprising an excavating bowl, a frame in which the bowl is rotatably mounted, the said frame including a tongue pivoted thereto, means associated with the frame for alternately holding the bowl in different operative adjustments, a draw-head rigid with the tongue and comprising an arc-shaped channel iron having flanges with coinciding apertures therein and a web between the flanges having an aperture near its upper and lower end, a link to which a tractor is hitched

having means extending through parts of the link and through the apertures of the flanges for adjustably mounting the link on the flanges, a spring-pressed bolt mounted at the front end of



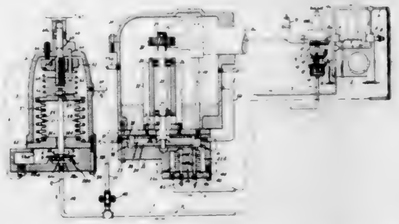
the frame and operative to engage selectively an aperture of the web, a lever for retracting the bolt against the action of the spring, and a flexible member connected to the lever and leading to the tractor.

2,534,973
COOLING APPARATUS
Carl L. Ipsen, Schenectady, and Norman B. Jones, Ballston Lake, N. Y., assignors to General Electric Company, a corporation of New York
Application March 2, 1949, Serial No. 79,256
1 Claim. (Cl. 266—3)



Apparatus for cooling continuously moving strip material at a predetermined rate, said apparatus being constructed and arranged to contain an artificial atmosphere and comprising, a plurality of vertically disposed chambers arranged in a continuous row and interconnected alternately at the top and bottom of adjoining chambers, a plurality of transverse rollers positioned respectively at said interconnections for supporting said strip material in said chambers and providing for the passage of said material longitudinally through consecutive interconnected chambers, an entrance opening for said strip material in one endmost chamber, an exit opening for said strip material in the other endmost chamber, means including an atmosphere outlet opening in the strip entrance chamber, an atmosphere inlet opening in the strip exit chamber, an interconnecting passage between said atmosphere outlet and inlet openings, and a blower, for recirculating said atmosphere through consecutive interconnected chambers in a direction opposite to the movement of said strip material therethrough, whereby a part of the heat removed by convection from said strip material in the portion of the apparatus nearer the strip entrance is returned to the strip material in the portion nearer the strip exit, selective heating means for adding heat to said atmosphere after it has left the cooling chambers and before it is returned for recirculation through them, and selective means for extracting a variable portion of said atmosphere from the circulating system, cooling said portion, and returning said portion to said system to affect the temperature of all of the atmosphere, said last-named means comprising an extraction opening in said strip entrance chamber, a controllable opening in said strip exit chamber, an interconnecting duct between said extraction opening and said controllable opening, an atmosphere cooler, and a second blower, whereby the temperature of said strip material is reduced substantially uniformly and at a predetermined rate irrespective of the speed of movement of the strip material through the cooling apparatus.

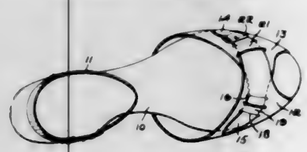
2,534,974
PRESSURE CHANGE AMPLIFIER FOR HYDRAULIC GOVERNING SYSTEMS
Stephen Jacobs, Fitchburg, Mass., assignor to General Electric Company, a corporation of New York
Application April 23, 1948, Serial No. 22,785
2 Claims. (Cl. 137—153)



1. A pressure change amplifying device comprising a housing having first, second, third, and fourth axially aligned chambers, a transverse wall separating the second and third chambers and having a central opening, a pressure responsive bellows member within the housing separating the first and second chambers and having a first end portion secured to the transverse wall surrounding said opening and a closed end member adapted to move axially of the housing in response to changes of pressure in the first chamber, a main coil spring surrounding the bellows with a first end portion engaging the transverse wall and a second end portion adapted to bias the movable end member of the bellows in a direction away from said wall, an auxiliary coil spring arranged in the first chamber coaxial with said main spring and having a first end portion engaging adjustable abutment means and a second end portion engaging the movable bellows end member in opposition to the main spring, means for positioning said movable abutment axially whereby the effective biasing force of the auxiliary spring may be altered, a spindle having a first end portion connected to the movable bellows end member and extending axially through and having a generous annular clearance space with the central opening in the transverse wall, said clearance space providing free communication between the second and third chambers and preventing mechanical friction between spindle and wall, said spindle having a second end portion disposed in said third chamber, a transverse dowel pin adjacent said second end of the spindle and adapted to engage said transverse wall whereby movement of the spindle in one direction under the biasing force of said main

spring is limited by engagement of the dowel pin with the transverse wall, the extreme end portion of the spindle having a curved thrust seat, the walls of the housing having a drain port for discharging liquid from the third chamber, the housing also having a port opening into the fourth chamber and surrounded by an annular portion extending axially from the wall of the housing toward said transverse wall and having a narrow circumferential edge, and a valve disk member having a central portion with a curved socket adapted to engage the thrust seat of the movable spindle and a flat circumferential portion of an outer diameter substantially larger than said circumferential edge adapted to cooperate therewith to define an annular bleed port, the effective area of the bellows exposed to the pressure in the first chamber being substantially greater than that of the valve disk member exposed to the opposing pressure communicated to said bleed port, whereby any change in pressure in the first chamber causes the valve disk member to seek a new equilibrium position in which the change in rate of flow from the bleed orifice into the third chamber is accompanied by a multiplied change in pressure of the liquid in the fourth chamber in accordance with the relative effective areas of said bellows and valve disk member.

2,534,975
SHOE WITH INTERLACED VAMP ELEMENTS
Harry H. Johnson, Brookline, Mass.
Application July 31, 1947, Serial No. 765,071
3 Claims. (Cl. 36—11.5)



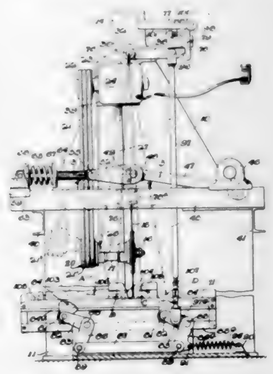
1. Footwear comprising a sole structure and an upper portion including a vamp, said vamp comprising first and second sections, corresponding edges of said sections being secured to opposite margins of said sole structure, each of said sections including a part tapering to an integral strap portion, said first section having three slits therein to enable the strap portion of the second section to pass upwardly through the first of said slits and through the loop established by the second and third slits, said second section having a pair of slits therein to establish a loop to receive the strap portion of the first section, and means to lock to the upper portion the extremity of the strap portion of said first section that extends through and is exposed beyond the loop of the second section.

2,534,976
TOY BOMB
Clifford A. Kidder, Detroit, Mich.
Application December 7, 1945, Serial No. 633,286
2 Claims. (Cl. 46—200)

1. A toy aerial bomb comprising an elongated body having a socket forwardly thereof, a plug mounted in said socket and projecting forwardly therefrom and having a recess therein for receiving an explosive cap, a relatively heavier nose detachably secured to the projecting portion of said plug and having a longitudinal bore therethrough, a firing pin loosely mounted in said bore and extending rearwardly to said recess, and a vent leading from the marginal portion of said recess

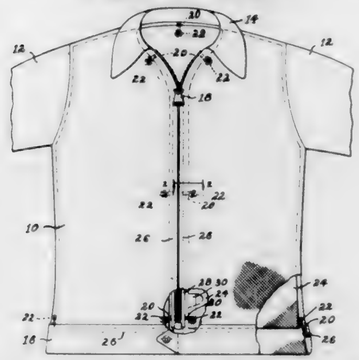
remote from said bore to the exterior of said bomb.

2,534,977
SWINGING HOT SAW
Fred E. Kling, Youngstown, Ohio
Application April 26, 1946, Serial No. 665,161
8 Claims. (Cl. 29—69)



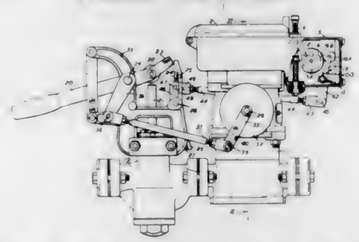
1. A swinging saw for cutting material being continuously fed from a source of supply into predetermined lengths, comprising a pendulous member pivoted to the top of a frame, said frame including a beam having a pair of lugs with openings therein, a pivot pin eccentrically mounted in the said lug openings, said pin having an extended end beyond one side of one lug, means carried by this lug adapted to turn said pin in the lug openings to vary the eccentric adjustment of the pin, an arbor mounted on the free end of said pendulous member, a disc saw rotatably journalled on the arbor, a motor having a rotor shaft mounted on the pendulous member adjacent the pivotal connection thereof in the frame, cooperating drive and driven members keyed to the rotor shaft and said arbor, respectively, and power means connected to said pendulous member to swing the broad side of said saw in a plane substantially parallel to the line of travel of said continuously fed material to be severed.

2,534,978
JACKET WITH REMOVABLE LINING
Clarence S. Lapedes, Dayton, Ohio
Application February 1, 1950, Serial No. 141,645
6 Claims. (Cl. 2—97)



1. In a garment, an outer member, a lining for said outer member, said outer member having a zipper fastener means extending down the front thereof, narrow flap portions on the inside of said outer member and extending substantially the full length of said zipper, a single row of stitching holding said zipper means and each of said flaps in place relative to said outer member, means forming loops concealed between said outer member and said flaps and held in place by said stitching, and means carried by said lining cooperating with said loops for holding said lining in place relative to said outer member.

2,534,979
LIQUID FLOW METER FOR MEASURING A PREDETERMINED VOLUME
Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application October 12, 1946, Serial No. 703,061
In Great Britain August 24, 1945
8 Claims. (Cl. 222—20)



1. In a liquid flow meter having a normally closed main meter valve, means for opening the valve to permit flow of liquid through the meter, counter mechanism pre-settable to indicate the quantity of liquid to be delivered through the meter between the opening of said valve and the closing thereof, means for pre-setting the pre-settable counter mechanism, meter mechanism operated by the flow of liquid through the meter, and means connecting the meter mechanism to the counter mechanism for recording the amount of liquid which flows through the meter, the combination including, mechanism for releasing the meter valve and controlling its closing including an actuating lever for the valve opening means, a single detent device adapted when in its operative position to cooperate with said lever to hold the valve in its full open position, means connecting said detent device to the counter mechanism and adapted to move said detent device into its inoperative position to release said lever and the meter valve opening means whereupon the meter valve commences to move toward its closed position upon the passage at full flow velocity through the meter of a predetermined definite portion of the total quantity of liquid required to be metered, and other control mechanism providing an operative connection between the meter mechanism and the means for opening the meter valve, said last mentioned control mechanism including a member driven by the meter mechanism, a clutch means in engagement with said last mentioned member, and a means connecting said clutch means with said actuating lever, said clutch means preventing movement of said lever to closed position at a rate faster than that governed by said member, so that the valve reaches its closed position after a further predetermined definite quantity of the liquid constituting the balance of the total quantity to be metered has passed through the meter following the release of said detent device.

2,534,980
TENSILE TESTING APPARATUS
Jack D. Lubahn, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1949, Serial No. 95,817
7 Claims. (Cl. 73—15.6)

1. A tensile test fixture for three-headed specimens comprising a first member, means to attach said first member to the center head of the specimen, second and third members, means to attach said second and third members to the two end heads of the specimen respectively, means for connecting the two end heads of the specimen to respective crossheads of a testing machine, whereby tensile load may be aplied to the specimen, and means to measure differences in displacement relative to said first member of said second and third members as load is applied to the specimen, said last-named means comprising gauging elements connected between said first and second member and between said first and third members, respectively, and not otherwise operatively connected to the specimen.

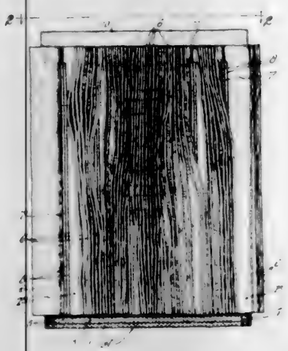
2,534,981
RESILIENT CONNECTION
Nils Gunnar August Malmquist, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden
Application September 23, 1946, Serial No. 698,618
In Sweden October 2, 1945
4 Claims. (Cl. 64—11)

1. In resilient connections between spaced members relatively movable about an axis and in the directions of said axis as well as at right

angles thereto, the combination comprising non-metallic resilient blocks of circular cross section, clamped in an axially compressed state between the relatively movable spaced members, and relatively non-yielding metallic members firmly secured to and tipping and supporting the ends of said non-metallic resilient blocks over substantially the whole area of the end surfaces thereof, the relatively movable spaced members being

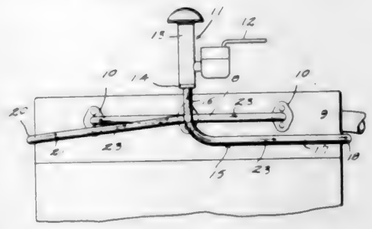
provided at their facing sides with normally aligned circular recesses for receiving the tipped ends of said blocks, said non-yielding tipping members being cup-shaped with conical side walls of so great an outer diameter that, at the insertion of the blocks, said conical side walls will abut the peripheries of the recesses before the end surfaces of the tipping members touch the bottoms of the recesses.

2,534,982
DRYING AND POLISHING MITT
Arthur Mayes, Maplewood, N. J.
Application November 9, 1949, Serial No. 126,310
3 Claims. (Cl. 15—227)



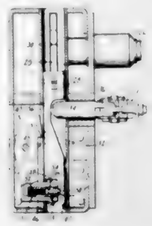
1. A drying and polishing mitt comprising a hand-receiving elongate body approximately rectangular in plan and having front and back walls secured together at their edges and providing a hand opening at one end of the body, a plurality of groups of strips of soft flexible absorbent material, each group of strips including a plurality of elongate rectangular strips of approximately the same size in superposed relation with their longitudinal edges approximately coincident, and means fastening said groups of strips intermediate their widths to said front wall in parallel relation to each other and to the longitudinal edges of said body with the longitudinal edge portions of the strips free, the group of strips adjacent each longitudinal edge of the body having an edge portion of at least one strip extending outwardly beyond the corresponding longitudinal edge of the body and overlapping and being secured to the front wall of the body adjacent the edge of the body, the end portions of the groups of strips projecting beyond the edge of the body opposite said hand opening.

2,534,983
ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES
Gerald F. Mooney, Lansing, Iowa
Application January 17, 1947, Serial No. 722,566
1 Claim. (Cl. 123—122)



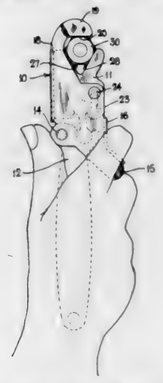
An attachment for the fuel supply system of an internal combustion engine, comprising a fuel supply conduit adapted to be interposed between the intake port of an engine and the carburetor thereof, said conduit extending substantially entirely around the engine to provide an indirect and circuitous passage for the fuel mixture from the carburetor to the intake port and for subjecting the fuel mixture to the heat radiated from the engine, for thoroughly vaporizing the mixture during its passage from the carburetor to the fuel intake port, said conduit having portions disposed in close proximity to at least one side and both ends of the engine and including a portion disposed longitudinally of and in close proximity to a portion of the exhaust manifold.

2,534,984
ROD BRAKE
Don E. Moran and Samuel F. Jarvis, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Original application December 30, 1943, Serial No. 516,260. Divided and this application October 9, 1946, Serial No. 702,290
3 Claims. (Cl. 188—67)



1. A plunger brake comprising an elongated plunger having a tapered cam surface on one side thereof, guiding means mounting said plunger for axial movement, a single elongated braking member pivotally mounted intermediate its ends and extending substantially parallel to the direction of movement of said plunger, a projection carried at one end of said braking member in position to be engaged by said tapered cam surface thereby to move said braking member progressively about its pivot, and braking means carried at the opposite end of said braking member and movable progressively by said pivotal movement into frictional braking engagement with a side of said plunger.

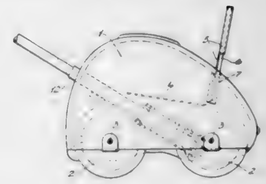
2,534,985
LEVER AND LINK FEED SLIDING JAW WRENCH
Maurice A. Napier, Akron, Ohio
Application September 3, 1946, Serial No. 694,447
2 Claims. (Cl. 81—126)



1. A wrench of the type having a fixed jaw and a movable jaw, said fixed jaw comprising a symmetrically shaped plate folded along its center line and with its sides arranged in parallelism in spaced relation throughout the major portion of the fixed jaw and being in contact throughout a relatively small outer portion to constitute an abutment for a nut to be engaged, a movable jaw disposed between the said spaced sides of said fixed jaw and adapted to move toward and from said abutment, means limiting the extent of motion of said movable jaw, a handle permanently pivoted between said spaced sides of said fixed jaw, a connecting link pivotally attached to said movable jaw and said handle, the pivot point of said handle being, in all positions of adjustment of said movable jaw, appreciably spaced from a line between the pivotal centers of said connecting link and substantially laterally adjacent the pivotal center of the link in the handle in the mean position of the movable jaw whereby to impart rapid motion to said movable jaw, and an extension on said fixed jaw directed obliquely to the path of motion of said movable jaw and being appreciably shorter than said handle whereby one or more fingers of the hand may engage the said extension, trigger fashion, and swing the same throughout large angular motion without interference by the balance of the fingers engaging the said handle.

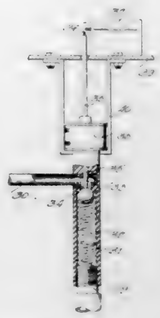
2,534,986
COLLAPSIBLE BABY CARRIAGE
Richard Gunnar Ossbahr, Sundbyberg, and Otto Linus Andersson, Lahall, Sweden, assignors, by mesne assignments, to Erik Georg Gärdin, Stockholm, Sweden
Application May 9, 1949, Serial No. 92,162
In Sweden May 12, 1948
1 Claim. (Cl. 280—42)

A collapsible baby carriage comprising in combination two side members and at least one wheel for each side member, an outer tube centrally disposed between said side members, an inner tube telescopically carried within said outer tube, at least two pairs of pivotally connected toggle links, the outer ends of each pair being pivotally connected one to each side member, the inner ends of one pair being attached to said outer tube and the inner ends of the other pair being attached to a portion of said inner tube which extends beyond said outer tube whereby said pairs of toggle links are movable in opposition to each other to collapse and expand the carriage as the tubes are telescoped, and a seat made of a flexible material and secured to the inner sides of said side members, each of said side members consisting of a narrow upright box-like frame open at its lower side, and including two parallel side walls and a separate axle for each wheel fixedly mounted at its ends to the said side walls,



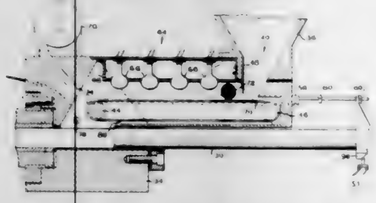
said wheels being journalled one on each axle, and said axles providing a fixed mounting for said wheels and being located in said box-like frames in such manner that a minor portion only of the wheels projects below the lower edges of said box-like frames so that said wheels are available for rolling action when said carriage is in both collapsed and expanded condition, said box-like frames projecting above said seat when said carriage is in expanded condition, whereby the upper portions of said box-like frames serve as side supports and arm rests for a child sitting in the carriage.

2,534,987
ELECTRICALLY CONTROLLED DISPENSING VALVE AND COUNTER
James O. Price, Dallas, Tex.
Application April 5, 1948, Serial No. 18,910
1 Claim. (Cl. 225—21)



In a drink vending machine, a beverage delivery head comprising a tubular member composed of transparent material of low heat conductivity having a check valve therein, a faucet connected with said member above said valve, a spring below said valve normally seating the same, a solenoid above said valve to open the same against the resistance of said spring, a stem reciprocably arranged in said tubular member and actuated also by said solenoid and a counter above said solenoid actuated by said stem to compute the drinks vended by said machine.

2,534,988
METHOD AND APPARATUS FOR MOLDING
Howard M. Purcell, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware
Application October 7, 1946, Serial No. 701,714
4 Claims. (Cl. 18—30)



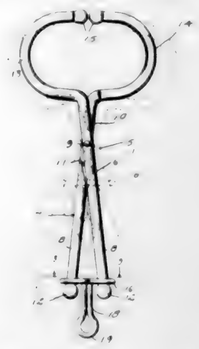
1. In combination with a molding machine having a hopper with a downward opening discharge and a heating chamber with an upward opening inlet, the said discharge and inlet being horizontally displaced; a horizontally extending belt conveyor for transferring material from said outlet to said inlet; heating means comprising a plurality of infra-red radiators positioned over said conveyor belt for preheating the material thereon; forced air means for continuously passing air across said conveyor belt for withdrawing gases evolved from the heating of said material; and means responsive to the temperature of said material for regulating the energization of said heating means.

2,534,989
HINGE FOR PLASTIC RECEPTACLES
Arthur H. Radde, Middlefield, Ohio, assignor to The Vichek Tool Company, Cleveland, Ohio, a corporation of Ohio
Application May 4, 1945, Serial No. 592,007
4 Claims. (Cl. 220—31)

1. In a box made of plastic material, a body, a cover for the body, the body having a rear side, the rear side having a rounded upper edge, the cover having a rear edge, the rear edge of the cover having a rounded recess adapted to receive said rounded upper edge of the body, said rear side of the body having a vertical cut out, bosses at the sides of the cut out, the bosses having eye openings, said rear edge of the cover having a recess in alinement with said cut out, a member, the member having pintles, and said member being fixed in said last mentioned recess of said rear edge of the cover and its pintles entering said eye openings for hingedly connecting said cover to said body.

2,534,990
VETERINARY FORCEPS
Frank D. Randolph, Cheyenne, Wyo., assignor of one-half to George G. Davis, Albin, Wyo.
Application November 21, 1947, Serial No. 787,407
3 Claims. (Cl. 128—324)

1. In a veterinary instrument of the character described, a pair of forcep members each including an elongated, substantially straight rod-like member having an arcuate, outwardly bowed jaw at one end thereof, said rod-like members being pivotally connected in crossed relationship adjacent the jaws, the ends of the rod-like members, extending from the pivot away from said jaws, forming handle portions of the instrument, and a closing member having enlarged end portions slidably engaging said handle portions for closing



the jaws when moved toward the extremities of the handle portions, said closing member having a restricted intermediate portion for engaging adjacent sides of the handle portions for opening the jaws when the closing member is moved toward the pivot.

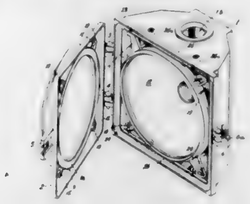
2,534,991
CLUTCH PLATE
Harold V. Reed, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 5, 1947, Serial No. 766,299
15 Claims. (Cl. 192—107)

1. A friction clutch plate assembly comprising a pair of axially spaced annular friction facings; a plurality of normally circumferentially undulated spring cushions between said friction facings and riveted thereto at the radial crests of said undulations; and a plurality of U-shaped insertable spacer members each having radial arms which are offset axially with respect to each other, said arms being positioned respectively between the wave crests of said cushions and an adjoining facing in the region of at least one rivet and spacing regions of cushions adjacent said arms away from said facings.

2,534,992
LIGHTING UNIT
Ralph A. Reid, Beverly, Mass., assignor to General Electric Company, a corporation of New York
Application May 11, 1948, Serial No. 26,260
5 Claims. (Cl. 177—337)

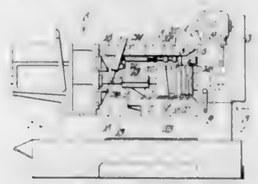
1. A lighting unit comprising a reflector assembly having an open mouth defined by a rim

portion, a closure member including a door having a lens opening therein, a lens mounted in said opening, a resilient air-core gasket overlying the inner periphery of said lens in position to seat upon said rim when said door is closed, and



a plurality of clips mounted upon said door and piercing said gasket transversely in overlapping clamping relation with the edge of said lens, thereby to hold said lens in place in said opening without interfering with seating of said gasket against said rim.

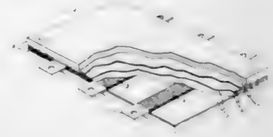
2,534,993
AUTOMATIC BAR STOCK MACHINE
Edmund J. Robichaud, Middletown, Conn., assignor to The Billings and Spencer Company, Hartford, Conn., a corporation of Connecticut
Application August 13, 1945, Serial No. 610,566
3 Claims. (Cl. 29—52)



1. Operating mechanism for a machine tool having spaced work spindles and tool carriers slidable transversely relative thereto and work stops movable in and out forwardly of said spindles comprising in combination, concentric relatively rotatable drive and main cam shafts in parallelism with said spindles, gearing connecting said drive shaft and spindles, upper and lower secondary cam shafts and gearing connecting the same to said main cam shaft, and cams on said secondary cam shafts for operating said tool carriers, a stop cam on said main cam shaft and connections between said cam and work stops, drive mechanism for said drive and main cam shafts including speed changing means for rotating the latter alternately at high and low speeds, and means operable by said main cam shaft for actuating said speed changing means.

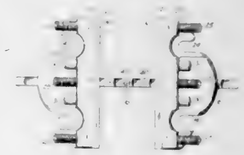
2,534,994
PRECISION ELECTRICAL RESISTANCE DEVICE AND METHOD OF MAKING IT
Benjamin B. Scott, George F. Greene, and Almy D. Coggeshall, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application December 27, 1948, Serial No. 67,472
9 Claims. (Cl. 201—64)

1. An electrical resistance comprising a supporting member having substantially smooth surfaces, resistance wire disposed in turns about said supporting member, a thermo-setting resinous material applied to said support member and to said turns of wire to provide insulation between said turns and to adherently bond said turns to said member to prevent relative move-



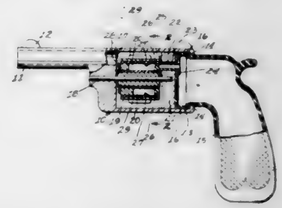
ment therebetween, and terminal means for said resistance.

2,534,995
VISE
Lee J. Seese, University Heights, Ohio
Application September 13, 1947, Serial No. 773,766
4 Claims. (Cl. 90—60)



1. A work holding clamp for mounting on machines having work tables provided with T slots, comprising in combination, a pair of facing jaw members adapted to receive a work-piece therebetween mountable on the said work table astride one of the aforesaid T slots, each of the said jaw members having screw means extending through the face thereof adapted to engage the said work piece and a dependent pin on the underside thereof; and a tie bar seated in the said worktable slot beneath the said spaced jaw members and having holes therein adapted to receive the said dependent jaw pins to lock the two jaw members against movement relative to one the other.

2,534,996
SOUNDING TOY
Henry Singer, Honolulu, Territory of Hawaii, assignor of one-half to John K. Goo Kim, Jr., Honolulu, Territory of Hawaii
Application October 28, 1948, Serial No. 57,113
2 Claims. (Cl. 46—177)



1. In a sounding toy, a body having the form of a revolver including a frame and a barrel, a hand grip in the form of a collapsible bulb attached to the rear side of said frame, an air duct opening through the rear side of said frame and communicating with the interior of said hand

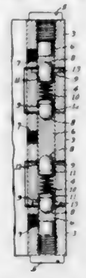
grip, a cylinder mounted for rotation on a horizontal axis within said frame and having a circular series of bores opening longitudinally through the same adjacent the periphery thereof, and tubular whistles fitted in said bores and having different tonal characteristics, said whistles having tone sounding vents opening outwardly thereof and through the periphery of said cylinder and blow vents opening through the rearwardly directed ends of the same, said blow vents being selectively aligned with said air duct when a turning motion is imparted to said cylinder.

2,534,997
RECEPTACLE FILLING DEVICE
Glen W. Smith, Grinnell, Iowa
Application June 6, 1949, Serial No. 97,340
7 Claims. (Cl. 226—102)

7. In a receptacle filling device, the combination with a pair of valves one of which is centrally apertured and provided with a seat engaged by the other, of stems for the respective valves one of which is housed within the other, a yieldable fluid discharge nozzle providing a seat for the apertured valve, a spring opposing the yielding of said nozzle, and a support for the respective valve stems including a tubular standard fixed to and extending upwardly through the nozzle and having fluid outlet openings in the upper portion thereof, a rotatable valve sleeve frictionally fitted on the upper portion of said standard and provided at its upper end with a measuring cup, and means to limit lowering of said valve sleeve.

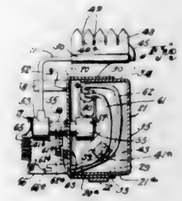
2,534,998
DOOR HINGE
Warner Steinbach, Maplewood, N. J., assignor to Cranford Development Corporation, Cranford, N. J., a corporation of New Jersey
Application May 3, 1949, Serial No. 91,040
2 Claims. (Cl. 16—176)

1. A door hinge comprising a door leaf and a door frame leaf, knuckles on the leaves, the knuckles, when the hinge is closed, being offset from the plane of the door leaf in the direction of the door frame leaf, elongated detents mounted for reciprocable longitudinal movement in the knuckles of one leaf, the detents having rounded cam portions protruding from the knuckles in which they are mounted and each normally journaled within a socket in an adjacent knuckle and disengageable under transverse pressure, means for guiding the detents in reciprocable movement and for maintaining them in axial alignment, spring means bearing against the detents and normally maintaining them in their protruded



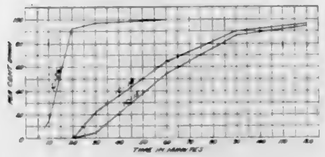
positions, and means for limiting the outward movement of the detents and for retaining them in the knuckles in which they are mounted.

2,534,999
FAULTY THREAD INDICATOR FOR SEWING MACHINES, ETC.
Austin E. Stevens, Fall River, Mass.
Application March 11, 1948, Serial No. 14,186
3 Claims. (Cl. 28—64)



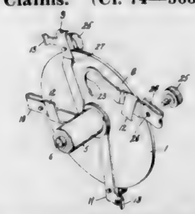
1. A thread defect indicator for incorporation with textile apparatus between the thread-manipulating means thereof and a thread supply means, said indicator comprising in combination a two-part casing including interfitting mechanism-carrying and closure sections, a mounting means carried by said mechanism-carrying casing section and adapted for detachable engagement with a support, means for securing said casing sections together, laterally spaced exteriorally located thread guide elements carried by the mechanism-carrying casing section, a bearing sleeve projecting through and fixedly carried by one wall of the mechanism- carrying casing section, a rock shaft journalled in said bearing sleeve, a thread defect-actuated indicator normally engaging the thread between said guide elements, a mounting arm for said indicator, a bearing on the inner end of said arm and carried by said shaft, an adjustable collar on the inner end of said shaft and adapted to engage the inner end of said bearing sleeve whereby to cause the arm bearing to engage the outer end of said sleeve so as to eliminate axial movement of said shaft, a clip carried by said adjustable shaft collar, a mercury drop-incorporating switch detachably carried by said clip, a thread defect-indicating medium, an electrical control circuit therefor and including said mercury switch, and said collar being adjustable on said shaft relatively of said indicator mounting arm whereby to close the said circuit through said mercury switch when the indicator mounting arm is in one position and to open said circuit when the arm is in a different position.

2,535,000
INSECTICIDAL COMPOSITION COMPRISING DDT AND METHOXYCHLOR
Robert A. Sturdy, Quincy, Ill., assignor to Moorman Manufacturing Company, Quincy, Ill., a corporation of Illinois
Application April 29, 1949, Serial No. 90,405
8 Claims. (Cl. 167—30)



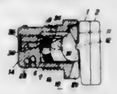
1. An insecticide composition containing as active ingredients, in synergistically effective proportions, DDT and methoxychlor.

2,535,001
TIME SWITCH RIDER
Francis W. Truesdell, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application September 3, 1949, Serial No. 114,050
2 Claims. (Cl. 74—568)



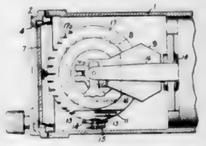
1. A switch operating rider for use on the rotary time dials of time switches, said rider consisting of an arm having open hooks at opposite ends thereof identified as inner and outer ends, the hook at the inner end being formed removably to hook over a shaft member on the axis of rotation of the time dial, and the hook at the outer end being formed removably to hook over the periphery of such time dial, the latter hook being of sufficient length to embrace the periphery of the time dial both when the inner end hook is tightly hooked over such shaft member and during when being completely removed from such hooking relation, the hook at the outer end having aligned openings through its limbs parallel to the axis of rotation of the time dial at a radius such that when the inner end hook is tightly hooked over such shaft member and the arm of the rider is radial with respect to such time dial, such openings come just outside the periphery of such dial, and a head screw fitting freely through one of said aligned openings and removably threaded into the other opening, said screw serving, when the rider arm is in place on such shaft member and time dial and the screw is contained in said aligned openings, to prevent the removal of the rider from such shaft and dial and when said screw is removed, to permit the removal of the rider from such shaft and time dial, said screw further serving when tight and loose, respectively, to clamp and unclamp the periphery of such time dial between the limbs of said outer end hook to enable the rider to be held in place on the time dial when the screw is tight or to permit of its free adjustment about the time dial when the screw is loose.

2,535,002
COMBINATION CONTACT PLUG
Hans Weber, Baden, Switzerland
Application October 29, 1947, Serial No. 782,750
In Switzerland October 30, 1946
5 Claims. (Cl. 200—51.07)



1. A combination plug and socket switching structure comprising a plug body including an angular projection, said projection being provided with outwardly converging walls terminating in an enlarged forward end, spaced apart contact pieces provided at said forward end, a socket body provided with walls defining an opening to facilitate insertion of said projection of said plug body into said socket body, spaced apart contact elements supported within said opening of said socket body and engageable with said enlarged forward end of said projection to releasably retain the latter within said opening, and means detachably pivoting said plug body on said socket body to thereby swing said projection to one position in which said contact pieces and said contact elements are in engagement with each other and one of said converging walls of said projection extends substantially parallel to a wall of said opening, and to another position in which said contact pieces are out of engagement with said contact elements and the other of said converging walls of said projection is substantially parallel to another wall of said opening.

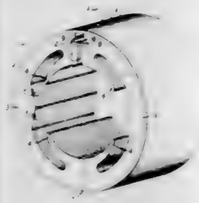
2,535,003
GYROSCOPIC INSTRUMENT
Harry C. Wendt, Lynnfield, Mass., assignor to General Electric Company, a corporation of New York
Application September 13, 1946, Serial No. 696,967
1 Claim. (Cl. 33—204)



In a gyroscope attitude indicating instrument, a universally mounted gyroscope comprising a gyroscope rotor mounted to rotate in a rotor bearing frame, an attitude indicator mounted on and encircling at least a part of said bearing frame, a portion of the surface of said indicator being approximately spherical and having attitude indicating indicia marked on the exterior thereof, said attitude indicator having an opening therein in a part of the spherical surface thereof in alignment with the spin axis of the gyroscope, and an erection system for said gyroscope comprising a rotating element driven by said gyroscope rotor and a cooperating pendulous member separated only by a small air gap, said rotating element comprising a spherical segment arranged so that its outer surface constitutes a continuation of the spherical contour of said attitude indicator across said opening and so that no portion of said indicator can interrupt said small air gap between said pendulous member and the exterior of said rotating element, and said rotating element having markings thereon arranged to appear as a

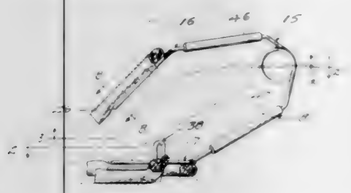
continuous circular line when rotating, said circular line forming a continuation of the indicating indicia of said attitude indicator.

2,535,004
STATOR FOR UNIVERSAL ELECTRIC MOTORS
Glenn D. Willits, Leo, Ind., assignor to General Electric Company, a corporation of New York
Application March 29, 1949, Serial No. 84,106
4 Claims. (Cl. 171—252)



1. A stationary member for a dynamoelectric machine comprising an annular non-magnetic outer retaining ring, a substantially circular magnetic yoke portion positioned immediately adjacent the inner surface of said retaining ring, a polar projection extending radially inward from said yoke, a second polar projection diametrically opposite said first projection extending radially inward from said yoke, said yoke and said first-named and said second-named projections being separated by a non-magnetic medium along a diameter of said yoke extending substantially through the centers of said first-named and said second-named projections forming two substantially semi-circular yoke segments whereby a path of high reluctance is provided for armature reaction flux, and a non-magnetic spring wedge member positioned between said yoke segments near one outer radial extremity of the separation between them tightly securing said yoke segments against said outer retaining ring.

2,535,005
DENTAL APPLIANCE
Clarence W. Wiprud, Corvallis, Oreg.
Application June 3, 1948, Serial No. 30,831
6 Claims. (Cl. 32—35)



1. A dental appliance for supporting a pad between the lips and teeth of a patient comprising a U-shaped upper member for engagement between the upper teeth and lips, a U-shaped lower member for engagement between the lower teeth and lips, a tongue depressing member fixed on said lower member and spaced inwardly therefrom for disposition inwardly of the lower teeth, a pair of forwardly extending arms on each of said upper and lower members and disposed at an obtuse angle relative thereto, and a spring between said arms constantly urging said upper and lower members apart.

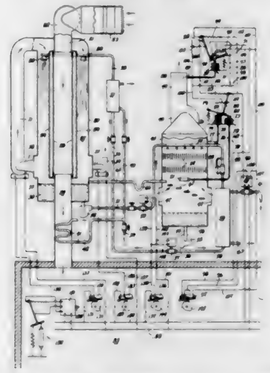
2,535,006
2-OXO-5-CYANO-4-IMIDAZOLINECARBONAMIDE, SALTS THEREOF, AND THEIR PREPARATION
David W. Woodward, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 5, 1950, Serial No. 154,203
6 Claims. (Cl. 260—309.2)

1. A chemical compound selected from the class consisting of 2-oxo-5-cyano-4-imidazolinecarbonamide and its alkali metal, alkaline earth metal, amine and ammonium salts.

2,535,007
AUTOMATIC STARTER UNIT
Richard L. Appleton, Akron, Ohio, assignor of one-third to Homer U. Montgomery and one-third to Edward L. Rowland, Akron, Ohio
Application February 23, 1949, Serial No. 77,829
7 Claims. (Cl. 290—36)

1. A self-perpetuating stall-proof electrical starting system for internal combustion engines, comprising a starter motor for starting the engine, battery means, and a normally open magnetically-operated motor switch in a motor circuit, motor switch electro-magnetic means for operating said motor switch, a holding switch and a starting switch, said holding and starting switches each having electro-magnetic means for operating the same, a master switch, a generator operated by operation of said engine, a holding circuit having therein said motor switch electro-magnetic means and said holding switch, a starting circuit in parallelism with said motor circuit and having therein said holding-switch electro-magnetic means said starting switch and said master switch, and a generator circuit adapted to be electrically charged by the generator upon operation thereof by said engine, said generator circuit having therein said starting switch electro-magnetic means, whereby closing said master switch is initially effective through said starting switch to energize said holding-switch electro-magnetic means and by energizing said motor electro-magnetic means said motor switch for starting said motor, and whereby so long as said generator circuit is electrically charged by operation of the generator said starting switch will be held open by energization of the electro-magnetic means thereof and said holding and motor switches will be correspondingly opened by the respective electro-magnetic means thereof, the starting cycle of operation being self-operatively repeated as often as the generator charge is diminished a predetermined amount and the master switch is closed.

2,535,008
SOLUTION CONCENTRATING APPARATUS
Robert B. P. Crawford, Kansas City, Mo.
Original application February 13, 1943, Serial No. 475,777. Divided and this application January 5, 1946, Serial No. 639,388
6 Claims. (Cl. 159—4)



1. In a solution concentrating apparatus, a concentrating chamber means including sprays and an air passage, the bottom of said chamber means serving to collect concentrated solution, conduit means for supplying weakened solution to said sprays, additional conduit means for recirculating concentrated solution from said chamber means to said sprays, flow control means for controlling the circulation of concentrated solution to said sprays, heater means for heating the recirculating concentrated solution, differential temperature responsive means having an element responsive to temperature of one of said solutions before it passes through said sprays and another element responsive to the temperature of said solution after it passes through said sprays, and means connecting said differential temperature responsive means in controlling relation to said heater means.

2,535,009
PROCESS FOR PRODUCING ESTERS OF ALKOXY CARBOXYLIC ACIDS
Willard J. Croxall, Bryn Athyn, and John O. Van Hook, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,601
12 Claims. (Cl. 260—484)

1. The process of preparing an ether ester of the formula

$$(R'O)_n CCH_2COOR'$$
$$\quad\quad |$$
$$\quad\quad R'''$$

which comprises reacting a compound of the formula

$$(RO)_n CCH_2COOR$$
$$\quad\quad |$$
$$\quad\quad R''$$

with an alcohol R'OH by heating them together between 75° C. and 250° C. in the presence of an anhydrous, fixed, strongly alkaline catalyst and separating the alcohol ROH from the reaction mixture, n representing an integer from one to two, R'' representing a member of the class consisting of hydrogen and the —COOR group, R''' representing a member of the class consisting of hydrogen and the —COOR' group, R and R' representing the residues of neutral, non-tertiary, monohydric alcohols which residues are free of acidic hydrogen and groups reacting with strong alkali, the alcohol R'OH boiling higher than the alcohol ROH and the latter boiling below 200° C. at 10 mm.

2,535,010
TRANSETHERIFICATION OF β-ETHER-SUBSTITUTED ESTERS
Willard J. Croxall, Bryn Athyn, and John O. Van Hook, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,602
12 Claims. (Cl. 260—484)

1. A process which comprises reacting by heating together at 75° C. to 210° C. in the presence of an alkali metal acid sulfate as catalyst an ether ester of the formula

$$(RO)_n CHCH_2COOR$$

and an alcohol of the formula R'OH and separating from the reaction mixture an alcohol, ROH, n representing an integer from one to two, inclusive, R representing the hydrocarbon residue of a neutral, non-tertiary, monohydric alcohol, ROH, having not over eight carbon atoms, R' representing a residue of a neutral, non-tertiary alcohol, R'OH, which boils higher than the alcohol ROH, the residue whereof is free of acyclic β,γ-unsaturation.

2,535,011
FORMATION OF DIETHER ESTERS
Willard J. Croxall, Bryn Athyn, and John O. Van Hook, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,603
5 Claims. (Cl. 260—484)

1. A process which comprises reacting together between 20° C. and 200° C. in the presence of a boron trifluoride catalyst an alcohol of the formula R'OH and an ether ester of the formula

$$(RO)_n CCH_2COOR$$
$$\quad\quad |$$
$$\quad\quad R''$$

and separating from the reaction mixture the compound,

$$(R'O)_2 CCH_2COOR$$
$$\quad\quad\quad |$$
$$\quad\quad\quad R''$$

in the above formulas n representing an integer from one to two, inclusive, R'' representing a member of the class consisting of hydrogen and the —COOR group, R representing the residue of a neutral, non-tertiary, monohydric alcohol, ROH, which residue does not react with an alkali and which contains not over twelve carbon atoms, and R' representing the residue of a neutral, non-tertiary, monohydric alcohol which does not react with acids which boils higher than the alcohol ROH, and which contains not over eighteen carbon atoms.

2,535,012
PROCESS FOR PRODUCING ALDEHYDIC ACID ESTER ACETALS
Willard J. Croxall, Bryn Athyn, and Henry J. Schneider, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 2, 1948, Serial No. 52,607
16 Claims. (Cl. 260—484)

1. The process which comprises reacting in the presence of an alkaline catalyst acetylene and a

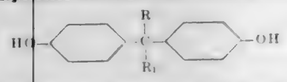
diester of carbonic acid and a non-tertiary, monohydric alcohol, the non-hydroxylated residue of which does not react with a strongly alkaline hydroxide, said catalyst being a member of the class consisting of (*a*) alkali metal acetylides, (*b*) alkali metal alcoholates in which the alcohol residue contains not over twelve carbon atoms, and (*c*) quaternary ammonium alcoholates in which an alkoxide group of one to four carbon atoms is one of the five N-substituents, two to four of the N-substituents are supplied by the methyl group, and the benzyl nucleus makes up any needed balance of the five N-substituents.

2,535,013
ELECTRICAL CONNECTOR
Thomas C. Freedom, Harrisburg, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa., a corporation of New Jersey
Application March 20, 1946, Serial No. 655,747
3 Claims. (Cl. 173—269)

1. An electrical connector comprised of a tubular ferrule telescoped over and crimped onto a bare electrical conductor, the resulting body as viewed in section presenting an unbroken periphery including a convex portion extending for about half of the periphery and, for the other half, a portion including a middle projection and two side projections mutually separated by two deep grooves, said projections and grooves extending longitudinally of the ferrule, the projections on either side of said middle projection being comprised by folded-over portions of the ferrule which are in intimate mutual contact.

2,535,014
DIPHENOL COMPOUND COMPOSITION FOR COCCIDIOSIS CONTROL
Julius E. Johnson, Jr., Midland, and Dorsey R. Mussell, Clare, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application June 19, 1948, Serial No. 34,134
5 Claims. (Cl. 167—53.1)

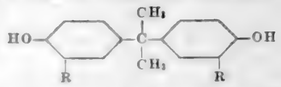
1. A composition for the suppression of coccidial infection in poultry which comprises a poultry feed and dispersed therein as an active ingredient a diphenol having the following formula:



wherein R_1 represents a member of the group consisting of the phenyl and alkyl radicals, R represents a member of the group consisting of the alkyl radicals and hydrogen, and the sum of the carbon atoms in R and R_1 is 6.

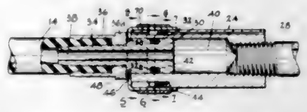
2,535,015
DIPHENOL COMPOUND COMPOSITION FOR COCCIDIOSIS CONTROL
Julius E. Johnson, Jr., Midland, and Dorsey R. Mussell, Clare, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application June 19, 1948, Serial No. 34,135
5 Claims. (Cl. 167—53.1)

1. A composition for the suppression of coccidial infection in fowl which comprises a feed and dispersed therein as an active ingredient a diphenol having the following formula:



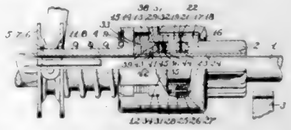
wherein R represents a member of the group consisting of the lower alkyl radicals containing from 1 to 4 carbon atoms, inclusive, allyl, phenyl and hydrogen.

2,535,016
DETACHABLE COUPLING
James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,068
7 Claims. (Cl. 285—97.3)



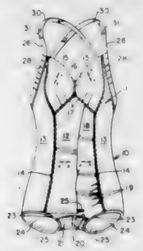
4. In a device of the class described, a female member of cylindrical conformation, having a smooth bore therein communicating with a system for fluid transmission, a cylindrical male member fitting within the bore of the female member to establish a coupled relation therewith for fluid transmission in the system, an annular channel in one of the members cooperating with the clearance between the members, a toroidal member of resilient material in the channel dimensioned to project beyond having slightly smaller cross sectional area than that of the channel and capable of being distorted by both the members and by the fluid pressure of the system to form a seal between the members, annular locking means on one of the members to allow relative rotation between the members when in coupled relation, and rotatable means on the other member, which when in one position creates an overhang to create the locking relation with the annular locking means, and when in a second position releases the overhang from the annular means to allow coupling and uncoupling and a spring biasing the rotatable means to the first position to maintain the locking relation between the coupled members.

2,535,017
STARTER GEARING FOR INTERNAL-COMBUSION ENGINES
Donald L. Miller, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application April 25, 1949, Serial No. 89,488
5 Claims. (Cl. 74—6)



1. In an engine starter transmission, a power shaft, a pinion having an axially extending bushing slidably journalled on the power shaft for longitudinal movement into and out of mesh with a gear of an engine to be started, a driven dental overrunning clutch member fixed to the pinion, a cooperating driving dental overrunning clutch member slidably journalled on the pinion bushing for longitudinal movement into and out of driving engagement with the driven overrunning clutch member, yielding means normally holding the overrunning clutch members out of driving engagement, means including a cam member connected to rotate with the power shaft, for moving the driving overrunning clutch member into operative engagement with the driven clutch member and for thereafter rotating the driven clutch member; a friction coupling between the driving overrunning clutch member and the pinion bushing, and means for releasing said friction coupling responsive to rotation of the pinion above a predetermined speed.

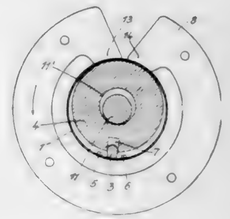
2,535,018
GARMENT
Rose Marie Reid, Los Angeles, Calif., assignor to Rose Marie Reid, Los Angeles, Calif., a corporation of California
Application October 11, 1946, Serial No. 702,777
3 Claims. (Cl. 2—67)



1. A garment comprising a body portion having a central front panel and a rear panel secured to each other along their side edges, a second underlying front panel having side edges attached to the side edges of the rear panel, said second front panel in its lower extremity being of greater width than the corresponding lower overlying portion of the first front panel and cooperating with the rear panel to form leg receiving portions, the second panel being gathered along its secured edges in the leg portions, said panels being formed of fabric which is elastic in a horizontal direction and substantially inelastic in a vertical direction thereof, and a crotch piece having elasticity in a front to back direction only of the garment and connecting the second front panel and rear panel and cooperating therewith in forming leg openings.

2,535,019
COMPRESSOR
Sverre Johan Steensen, V. Aker, near Oslo, Norway
Application October 29, 1945, Serial No. 625,318
In Norway April 29, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 29, 1962
1 Claim. (Cl. 230—146)

A compressor comprising a pump housing having an interior cylindrical space, a cylindrical rotor piston of a diameter different from that of interior space of the housing and located loosely and eccentrically within the housing, said piston being at least partly of magnetizable material, means outside the housing for producing a rotary field of magnetic forces to cause the piston to contact at any time with said wall along an axially directed straight contacting line in rolling along said wall with the contacting line travelling constantly around on the wall in accordance with the rotation of said magnetic field, an inlet port for the medium to be compressed,



an outlet port for the compressed medium, and a partition arranged between the inlet and outlet ports so as to separate at any time the suction space of the pump from the compression space.

2,535,020
PLASTICIZED AMINO-ALDEHYDE RESINS
John T. Stephan, Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 4, 1949, Serial No. 74,719
6 Claims. (Cl. 260—29.4)

1. A plasticized water-soluble amino-aldehyde resin comprising 1% to 25% by weight, based on said resin, of terpineol as the plasticizer.

2,535,021
FOOT PEDAL ARRANGEMENT FOR CONTROLLING PHONOGRAPH TRANSCRIBER SWITCHES
Robert L. Stone, Guilford, and Frank E. Runge, Branford, Conn., assignors to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application October 22, 1946, Serial No. 704,956
4 Claims. (Cl. 200—86)

1. In a foot switch for controlling an electrical apparatus, a base having upstanding sides and a central upstanding rib, a pair of tapered switch-actuating pedals pivotally secured to the rear of said base and located in the two spaces defined by said sides and said rib for operating a pair of "microswitches" adapted to be located on said base beneath said pedals, and a pair of pedal-engaging springs resting on said base for normally holding said pedals in raised position, said rib being hollow and laterally apertured to provide a conduit for wires connected to said switches.

2,535,022

MODIFICATION OF B. A.-TYPE WOOL

Stuart E. Swanson, Suffield, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts

No Drawing. Application February 10, 1949, Serial No. 75,739

3 Claims. (Cl. 8—95)

1. The process for enhancing the harshness and fullness and decreasing the luster of B. A.-type wool which comprises treating the wool with a liquid consisting essentially of a dilute aqueous solution of a zirconyl compound in an amount between ⅛% and 10% by weight of the wool.

2,535,023

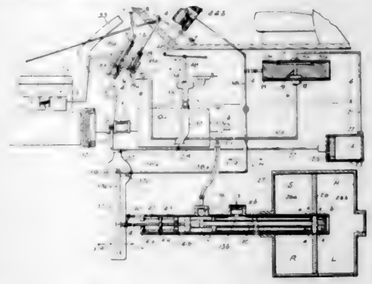
SEMIAUTOMATIC GEARSHIFT TRANSMISSION TOGETHER WITH A COMBINED FUEL CONTROL ELEMENT AND MANUAL GEAR SHIFTER

Jean A. H. Barkeij, Altadena, Calif.

Application June 13, 1941, Serial No. 399,556

15 Claims. (Cl. 192—.073)

1. In a combined hand and power operated gearshift, a gearshift motor having a single piston, a main gearshift lever to actuate said gearshift, an auxiliary lever pivoted on said main lever, said auxiliary lever actuating a control valve associated with the piston rod of said single piston, said control valve having a single vacuum connection, and a single atmospheric connection, and passages associated therewith to admit vacuum and atmospheric pressure alternatively on

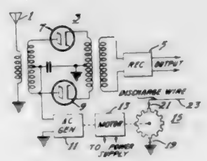


either side of said piston, and atmospheric pressure simultaneously to both sides of said piston when cutting off the vacuum, said gearshift connected by a two-way clutch to a transmission, said gearshift lever controlling pneumatic mechanism to operate said clutch.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

638,386. **AIRCRAFT RADIO.** Wendell L. Carlson, Princeton, N. J., and Loren F. Jones, Philadelphia, Pa., assignors to Radio Corporation of America, a corporation of Delaware. Filed Dec. 29, 1945. Published Dec. 19, 1950. Class 250—20. 1 sheet of drawings. 9 pages of specification.



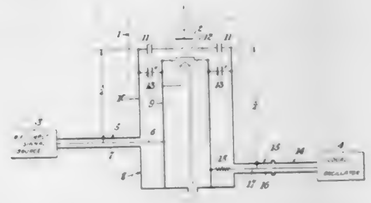
The system relates to preventing radio interference caused by corona discharge from an aircraft body.

Antenna **1** is coupled through modulator circuit **3** to a radio receiver **5**. The modulator **3** is of the balanced type comprising a pair of push-pull connected diodes **7** and **9** biased by the output of an A. C. generator **11**. When the anodes are positive with respect to the cathodes, the diodes are conductive and the antenna **1** is coupled to the receiver **5**. When the anodes are biased negative with respect to the cathodes the antenna is effectively disconnected from the receiver. The motor **13** drives the alternator **11** at a speed such that its output is of a higher frequency than the highest modulation frequency to be received. The commutator **15** at the same time cyclically connects the discharge wire to the body of the aircraft while the receiver is disconnected from the antenna and open-circuits the discharge wire when the receiver is connected to the antenna in synchronism with the receiver disconnection and connection.

The receiver thus does not respond to the interfering signals produced by the discharge. When the discharge circuit is opened, the aircraft has discharged to a potential below that at which corona discharge occurs and the receiver operates without interference.

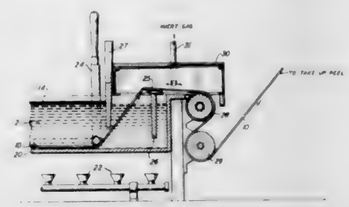
718,211. **METHOD OF INJECTING LOCAL OSCILLATOR SIGNAL INTO MIXER.** Armig G. Kandoian, Glen Rock, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware. Filed Dec. 24, 1946. Published Dec. 19, 1950. Class 250—20. 1 sheet of drawings. 6 pages of specification.

An electrical signal mixing system comprising a source of input signal **3**, a source of local oscillator signals **4**, a mixer device **2** having a resonant input circuit comprising a shorted quarter wave transmission line section (inner conductor **9**, outer conductor **10**), means **5**, **6**, **7** coupling input signal source **3** to a point on line **9**, **10** a quarter wave length at the mean frequency of the input signals from grid **12** of tube **2**, and means **14** to **18** for coupling said source of local oscillator signals **4** to said input circuit at a point one quarter wave length distance from grid **12** at the local oscillator frequency. Capacitors **11** are for coupling, and capacitors **13** tune the input circuit. Resistor **18**



and coupling **15**, **16**, **17** amounts to a transformer presenting a maximum impedance to the input frequency while delivering a sufficient amount of beat oscillator power to the mixer circuit and presenting a constant load to the beat oscillator circuit.

790,646. **PROCESS AND APPARATUS FOR APPLYING LEAD COATING.** George M. Bouton, Madison, and George S. Phipps, Chatham, N. J., assignors to Bell Telephone Laboratories, Inc., New York, N. Y., a corporation of New York. Filed Dec. 9, 1947. Published Dec. 19, 1950. Class 117—114. 1 sheet of drawings. 10 pages of specification.

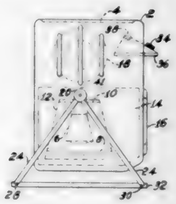


A dip-coating process and apparatus by which a thick coating of up to 4 mils or more of a lead alloy such as one containing two per cent cadmium, is deposited on one side of a brass strip. The strip **10** after being cleaned is continuously passed through a bath of the molten alloy **21**, thence at an angle of no greater than seventy degrees from the horizontal over a scraper **25** to remove essentially all the alloy from one side of the strip, and then over a cooling roll **28** while maintaining the strip in a horizontal position, the scraping and cooling steps taking place in an inert atmosphere to prevent oxidation of the alloy. Satisfactory results are obtained if the time between the emergence of the strip from the bath and contact with the cooling roll is from one-half

to two seconds. By this process it is possible to get excellent coatings up to .002 inch thick at a rate of up to seventy feet per minute.

72,448. **COMBINED RADIO AND TELEVISION PROJECTOR RECEIVER.** Harold B. Stott, Glen Olden, Pa., assignor to Radio Corporation of America, a corporation of Delaware. Filed Jan. 24, 1949. Published Dec. 19, 1950. Class 178—7.5. 1 sheet of drawings. 5 pages of specification.

The apparatus shown in the drawing is a cabinet for a television receiver which may be rotated about a vertical axis as the legs **24** are rotating around in a circular groove **30** in a plate **32**. The television receiver also rotates about a horizontal axis through the action of the pivot **20**. The controls for the television receiver are mounted on a panel **36** and are pivoted about an axis **38**, so that

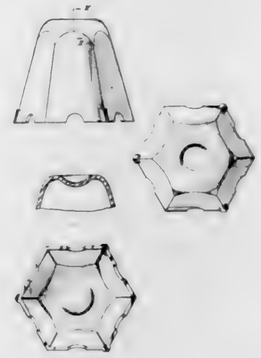


regardless of the tilt of the cabinet, the controls **34** will always be readily available.

DESIGNS

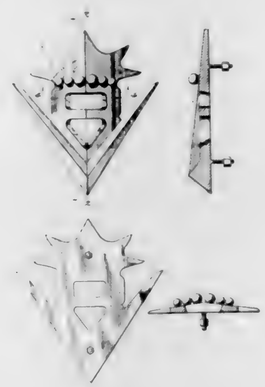
DECEMBER 19, 1950

161,231
PLANT PROTECTOR
Edward V. Alvarez, Los Angeles, Calif., assignor to The Plas-Tex Corporation, Los Angeles, Calif., a corporation of Nevada
Application August 22, 1949, Serial No. 4,639
Term of patent 3½ years
(Cl. D35—2)



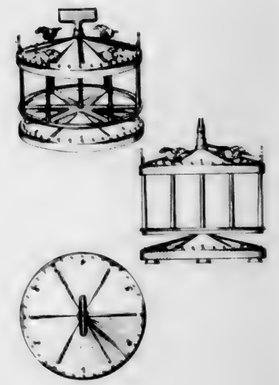
The ornamental design for a plant protector, as shown.

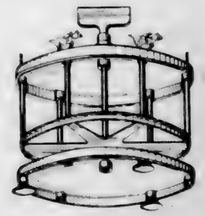
161,232
AUTOMOBILE EMBLEM PLATE
William B. R. Bell, Dallas, Tex.
Application May 5, 1949, Serial No. 2,460
Term of patent 3½ years
(Cl. D14—6)



The ornamental design of an automobile emblem plate, as shown.

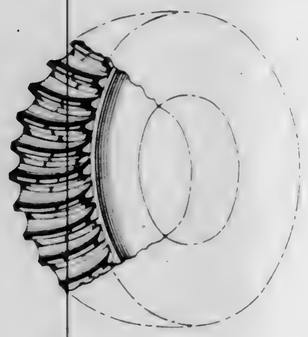
161,233
GAME APPARATUS
Joseph Berkowitz, Kansas City, Mo.
Application June 17, 1949, Serial No. 3,375
Term of patent 3½ years
(Cl. D34—5)





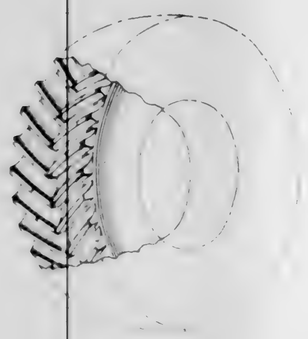
The ornamental design for a game apparatus, as shown.

161,234
AIRCRAFT TIRE
Charles A. Bigelow, Houston, Tex.
Substituted for abandoned application Serial No. 134,583, November 7, 1946. This application March 17, 1949, Serial No. 1,431
Term of patent 14 years
(Cl. D90—20)



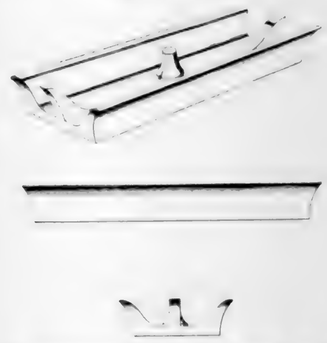
The ornamental design for an aircraft tire, substantially as shown and described.

161,235
AIRCRAFT TIRE
Charles A. Bigelow, Houston, Tex.
Substituted for abandoned application Serial No. 134,585, November 7, 1946. This application March 17, 1949, Serial No. 1,433
Term of patent 14 years
(Cl. D90—20)



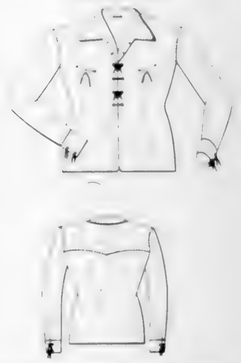
The ornamental design for an aircraft tire, substantially as shown and described.

161,236
RACK FOR PLAYING CARDS
Carl A. Bissman, Springfield, Mo.
Application November 23, 1949, Serial No. 6,229
Term of patent 3½ years
(Cl. D34—13)



The ornamental design for a rack for playing cards, as shown.

161,237
SPORT SHIRT OR THE LIKE
Victor G. Boehnlein, Oklahoma City, Okla.
Application May 31, 1949, Serial No. 2,959
Term of patent 14 years
(Cl. D3—25)



The ornamental design for a sport shirt or the like, as shown.

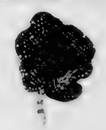
161,238
BROOCH OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application September 9, 1950, Serial No. 12,121
Term of patent 3½ years
(Cl. D45—19)

The ornamental design for a brooch or similar article, as shown.

161,239
EARRING OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application September 9, 1950, Serial No. 12,123
Term of patent 3½ years
(Cl. D45—9)

The ornamental design for an earring or similar article, as shown.

161,240
BROOCH OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application September 9, 1950, Serial No. 12,124
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a brooch or similar article, as shown.

161,241
EARRING OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application September 9, 1950, Serial No. 12,125
Term of patent 3½ years
(Cl. D45—9)

The ornamental design for an earring or similar article, as shown.

161,242
DINNER PLATE OR SIMILAR ARTICLE
Douglas Bourne, Skaneateles, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 28, 1949, Serial No. 6,893
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a dinner plate or similar article, as shown and described.

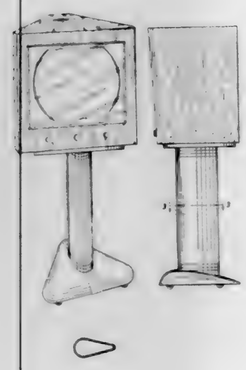
161,243
DINNER PLATE OR SIMILAR ARTICLE
Douglas Bourne, Skaneateles, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application January 28, 1950, Serial No. 7,539
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a dinner plate or similar article, as shown and described.

161,244
DINNER PLATE OR SIMILAR ARTICLE
Douglas Bourne, Skaneateles, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application March 27, 1950, Serial No. 8,786
Term of patent 14 years
(Cl. D44—15)

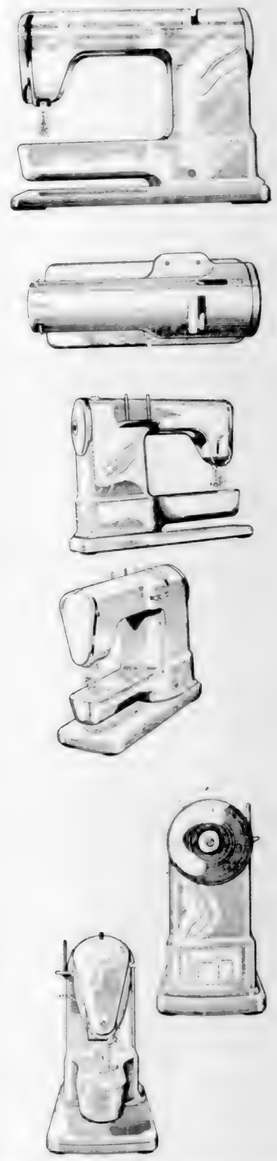
The ornamental design for a dinner plate or similar article, as shown and described.

161,245
TELEVISION CABINET
Robert A. Carrier, Detroit, Mich.
Application June 15, 1950, Serial No. 10,540
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a television cabinet, as shown.

161,246
SEWING MACHINE
Ramon Casas Robert, Geneva, Switzerland, assignor to Mefina S. A., Binningen, Switzerland
Application March 31, 1949, Serial No. 1,736
In Switzerland December 20, 1948
Term of patent 14 years
(Cl. D70—2)

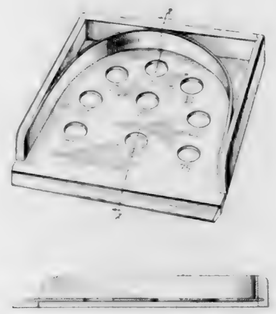


The ornamental design for a sewing machine, as shown and described.

161,247
TABLE MAT OR SIMILAR ARTICLE
Germain A. Chiniquy, Los Angeles, Calif., assignor to Lorine V. Gleason, doing business as John P. Gleason Mfg. Company, Los Angeles, Calif.
Application March 25, 1950, Serial No. 8,769
Term of patent 14 years
(Cl. D44—24)

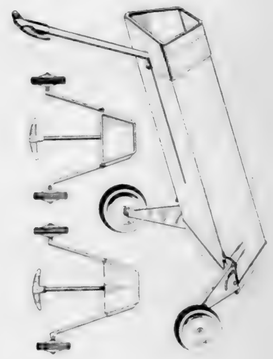
The ornamental design for a table mat or similar article, substantially as shown.

161,248
GAME BOARD
Edwin Eugene Darr, Garden City, N. Y.
Application March 17, 1948, Serial No. 145,189
Term of patent 14 years
(Cl. D34—5)



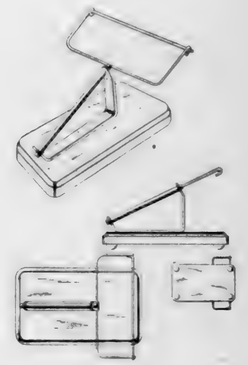
The ornamental design for a game board, as shown and described.

161,249
GOLF CLUB CARRIER
Harold W. Darr, Minneapolis, Minn., assignor to Ridgway Baker, Minneapolis, Minn.
Application May 16, 1949, Serial No. 2,691
Term of patent 14 years
(Cl. D14—3)



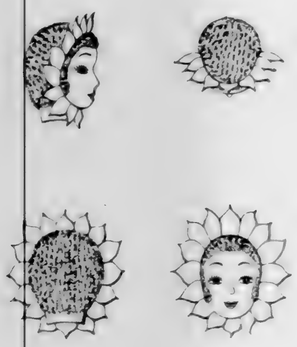
The ornamental design for a golf club carrier, as shown.

161,250
YARN HOLDER
Attilio B. Delucchi, Daly City, Calif.
Application February 21, 1949, Serial No. 1,000
Term of patent 7 years
(Cl. D3—19)



The ornamental design for a yarn holder, as shown.

161,251
DOLL HEAD
Lucy Fay Eades, Inspiration, Ariz.
Original design application June 30, 1947, Serial No. 140,021. Divided and this application October 3, 1949, Serial No. 5,267
Term of patent 14 years
(Cl. D34—4)

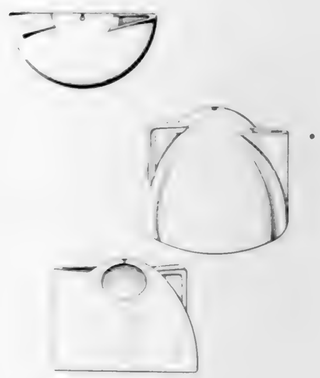


The ornamental design for a doll head, as shown.

161,252
MACARONI
Felice Della Femina, Brooklyn, N. Y., assignor to V. La Rosa & Sons, Inc., Brooklyn, N. Y., a corporation of New York
Application May 26, 1950, Serial No. 10,201
Term of patent 14 years
(Cl. D8—1)

The ornamental design for macaroni, substantially as shown.

161,253
TEAPOT OR THE LIKE
Antony P. Freeman, San Francisco, Calif.
Application September 17, 1948, Serial No. 148,638
Term of patent 14 years
(Cl. D44—25)

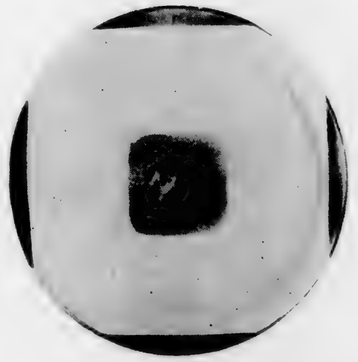


The ornamental design for a teapot or the like substantially as shown.

161,254
AWNING
Ralph L. Friend, Cleveland, Ohio, assignor to Ramode, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 12, 1949, Serial No. 1,375
Term of patent 14 years
(Cl. D21—6)

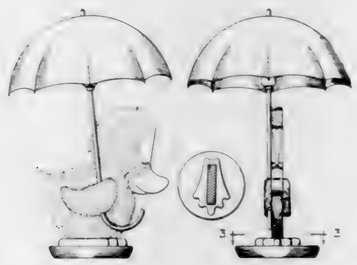
The ornamental design for an awning, as shown and described.

161,255
DINNER PLATE OR SIMILAR ARTICLE
Richard H. Garvin, Chicago, Ill., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 7,898
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown and described.

161,256
TABLE LAMP OR SIMILAR ARTICLE
Burdette Baxter Gilmore, Pelham Manor, N. Y.
Application December 29, 1949, Serial No. 6,907
Term of patent 7 years
(Cl. D48—20)

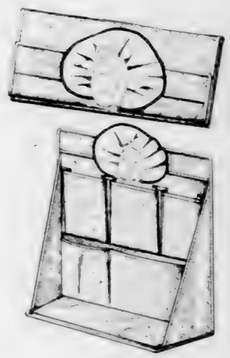


The ornamental design for a table lamp or similar article, substantially as shown and described.

161,257
COMBINATION TOOTHBRUSH AND TUBE HOLDER
Mildred M. Goodman, Scranton, Pa.
Application March 21, 1950, Serial No. 8,671
Term of patent 3½ years
(Cl. D4—3)

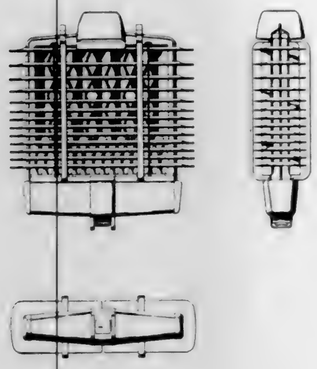
The ornamental design for a combination toothbrush and tube holder, as shown.

161,258
PORTABLE NURSERY SHELF
Michael Graboi, New York, N. Y., assignor to The Bonnytex Company, New York, N. Y., a copartnership
Application February 3, 1950, Serial No. 7,689
Term of patent 14 years
(Cl. D58—2)



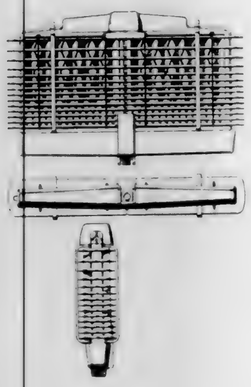
The ornamental design for a portable nursery shelf, substantially as shown and described.

161,259
OVERHEAD RADIANT SPACE HEATER OR SIMILAR ARTICLE
Harry R. Greene, Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application September 24, 1949, Serial No. 5,157
Term of patent 14 years
(Cl. D81—10)



The ornamental design for an overhead radiant space heater or similar article, as shown.

161,260
OVERHEAD RADIANT HEATER OR SIMILAR ARTICLE
Harry R. Greene, Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application September 24, 1949, Serial No. 5,158
Term of patent 14 years
(Cl. D81—10)

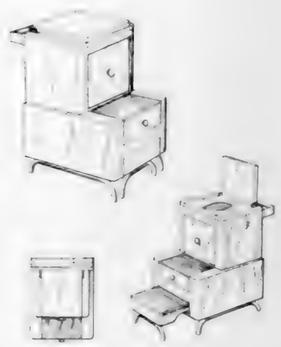


The ornamental design for an overhead radiant heater or similar article, as shown.

161,261
COMBINED SCRAPER AND COIN HOLDER
Kenneth R. Hagen, Paris, Ill., assignor to U. O. Colson Company, Paris, Ill., a corporation of Illinois
Application May 15, 1950, Serial No. 9,945
Term of patent 14 years
(Cl. D87—3)

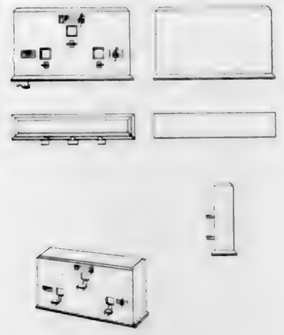
The ornamental design for a combined scraper and coin holder, as shown.

161,262
BEDSIDE CABINET COMMODE
William S. Horn, Fort Worth, Tex.
Application May 19, 1950, Serial No. 10,040
Term of patent 14 years
(Cl. D4—5)



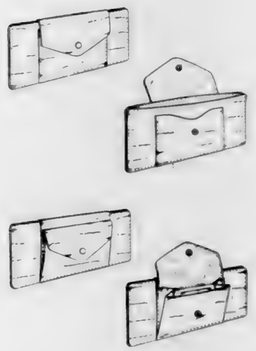
The ornamental design for a bedside cabinet commode, substantially as shown.

161,263
MUSICAL PRACTICE TIMER
Peter F. D. Jansen, Santa Monica, Calif.
Application November 7, 1949, Serial No. 5,924
Term of patent 7 years
(Cl. D56—1)



The ornamental design for a musical practice timer, substantially as shown.

161,264
COMBINED BILLFOLD, COIN PURSE, AND CARDCASE
David B. Jeffery, West Bend, Wis., assignor to Amity Leather Products Co., West Bend, Wis., a corporation of Wisconsin
Application March 18, 1950, Serial No. 8,607
Term of patent 14 years
(Cl. D87—3)

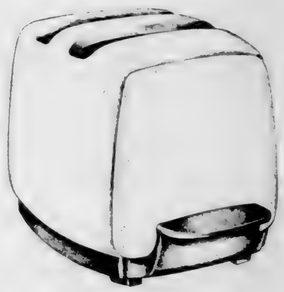


The ornamental design for a combined billfold, coin purse and card case, substantially as shown.

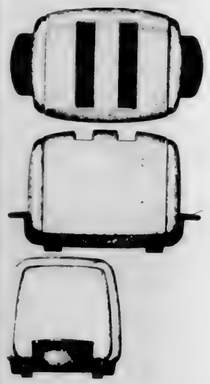
161,265
CASING FOR TOASTER
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application March 24, 1950, Serial No. 8,733
Term of patent 14 years
(Cl. D81—10)

The ornamental design for a casing for toaster, substantially as shown.

161,266
TOASTER
Ivar Jepson, Oak Park, and Robert Davol Budlong, Skokie, Ill., assignors to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application March 24, 1950, Serial No. 8,734
Term of patent 14 years
(Cl. D81—10)

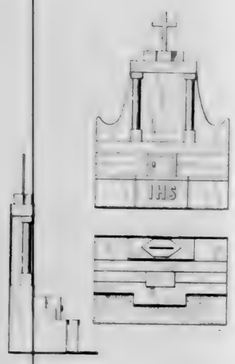


161,266—Continued



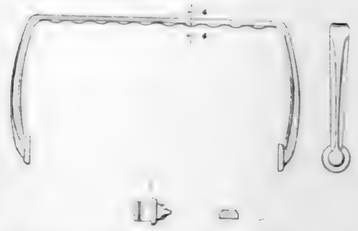
The ornamental design for a toaster, substantially as shown.

161,267
MINIATURE ALTAR
Benjamin A. Johnson, Chicago, Ill.
Application March 25, 1950, Serial No. 8,783
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a miniature altar, substantially as shown.

161,268
BASKET HANDLE
William Taylor Jones, Scranton, Pa., assignor to Consolidated Molded Products Corporation, Scranton, Pa., a corporation of Delaware
Application February 18, 1950, Serial No. 8,015
Term of patent 14 years
(Cl. D58—4)

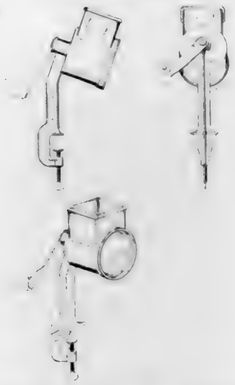


The ornamental design for a basket handle, as shown.

161,269
NECKTIE
Paul Karp, Los Angeles, Calif.
Application April 28, 1949, Serial No. 2,322
Term of patent 7 years
(Cl. D3—16)

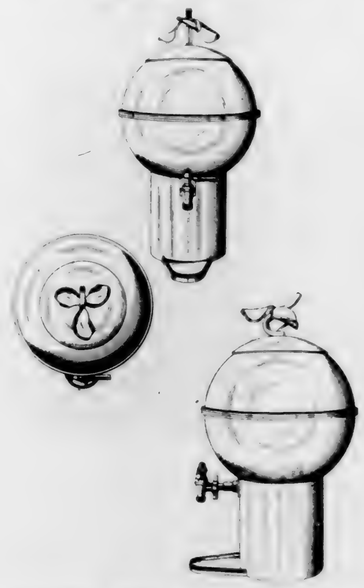
The ornamental design for a necktie, substantially as shown.

161,270
FOOD GRINDER
Ralph N. Kircher and Leonard E. Finch, West Bend, Wis., assignors to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application October 12, 1949, Serial No. 5,460
Term of patent 14 years
(Cl. D89—1)



The ornamental design for a food grinder, as shown and described.

161,271
FRUIT JUICE DISPENSER
Richard Linneman, Atlanta, Ga.
Application May 19, 1950, Serial No. 10,050
Term of patent 14 years
(Cl. D2—3)



The ornamental design for a fruit juice dispenser, as shown.

161,272
DINNER PLATE OR SIMILAR ARTICLE
Charles H. McKaig, Camillus, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application November 4, 1949, Serial No. 5,855
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a dinner plate or similar article, as shown and described.

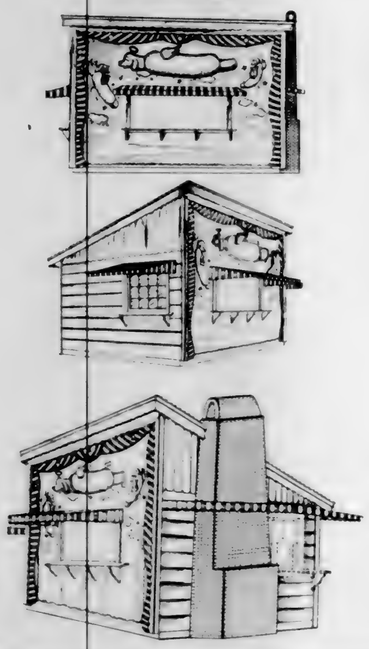
161,273
DINNER PLATE OR SIMILAR ARTICLE
Charles H. McKaig, Camillus, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application March 27, 1950, Serial No. 8,787
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a dinner plate or similar article, as shown and described.

161,274
DINNER PLATE OR SIMILAR ARTICLE
Charles H. McKaig, Camillus, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application March 27, 1950, Serial No. 8,788
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a dinner plate or similar article, as shown and described.

161,275
REFRESHMENT STAND
Abraham H. Melcher and Robert B. Bailey, Los Angeles, Calif.
Application March 7, 1949, Serial No. 1,256
Term of patent 14 years
(Cl. D13—1.2)



The ornamental design for a refreshment stand, as shown.

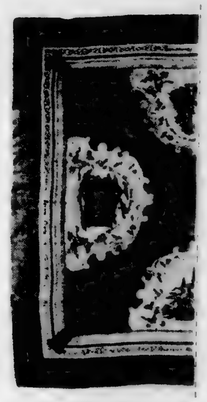
161,276
SCARF
Thekla L. Ofria, New Orleans, La.
Application April 20, 1950, Serial No. 9,356
Term of patent 14 years
(Cl. D3—12)

The ornamental design for a scarf, substantially as shown.

161,277
SCARF
Thekla L. Ofria, New Orleans, La.
Application April 20, 1950, Serial No. 9,357
Term of patent 14 years
(Cl. D3—12)

The ornamental design for a scarf, substantially as shown.

161,278
SCARF
Thekla L. Ofria, New Orleans, La.
Application April 20, 1950, Serial No. 9,358
Term of patent 14 years
(Cl. D3—12)



The ornamental design for a scarf, substantially as shown and described.

161,279
HAND ADZ
Manuel Phillips, San Jose, Calif.
Application January 17, 1950, Serial No. 7,303
Term of patent 14 years
(Cl. D93—4)

The ornamental design for a hand adz, as shown.

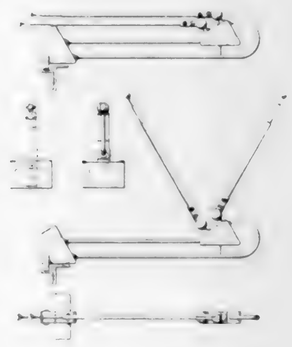
161,280
NEEDLE THREADING DEVICE
Clarence A. Pinkham, Douglaston, and Bartholomew Holohan, Kew Gardens, N. Y., assignors to Nelpin Manufacturing Co., Inc., Long Island City, N. Y., a corporation of New York
Application April 8, 1950, Serial No. 9,069
Term of patent 14 years
(Cl. D3—19)

The ornamental design for a needle threading device, as shown and described.

161,281
STOCKING
Isadore Rabinovitz, Philadelphia, Pa.
Application March 29, 1949, Serial No. 1,686
Term of patent 3½ years
(Cl. D47—7)

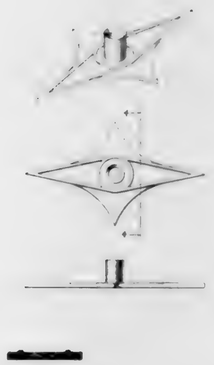
The ornamental design for a stocking, as shown and described.

161,282
TELEVISION RECEIVING ANTENNA
Joseph Y. Resnick, Ellenville, N. Y., assignor to Channel Master Corporation, Ellenville, N. Y., a corporation of New York
Application February 15, 1950, Serial No. 7,944
Term of patent 3½ years
(Cl. D26—14)



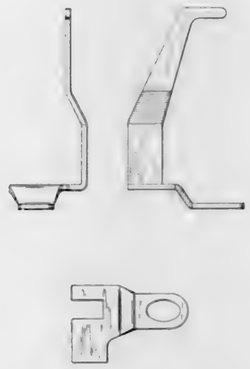
The ornamental design for a television receiving antenna, as shown.

161,283
GOLF TEE
Stanley J. Rogers, Churchill, Ohio
Application May 4, 1950, Serial No. 9,715
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf tee, substantially as shown.

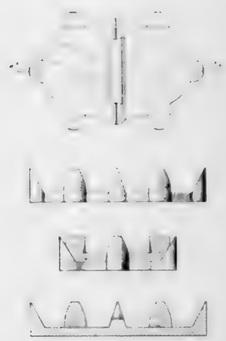
161,284
DARNING ATTACHMENT FOR SEWING MACHINES
Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application May 9, 1950, Serial No. 9,825
Term of patent 14 years
(Cl. D70—1)



The ornamental design for a darning attachment for sewing machines, substantially as shown.

641 O. G.—65

161,285
CARD TRAY
Ralph R. Russell, Leicester, Mass.
Application January 6, 1950, Serial No. 7,044
Term of patent 3½ years
(Cl. D34—13)



The ornamental design for a card tray, as shown.

161,286
EARRING OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application September 9, 1950, Serial No. 12,117
Term of patent 3½ years
(Cl. D45—9)

The ornamental design for an earring or similar article, as shown.

161,287
CLIP OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application September 9, 1950, Serial No. 12,118
Term of patent 3½ years
(Cl. D45—19)

The ornamental design for a clip or similar article, as shown.

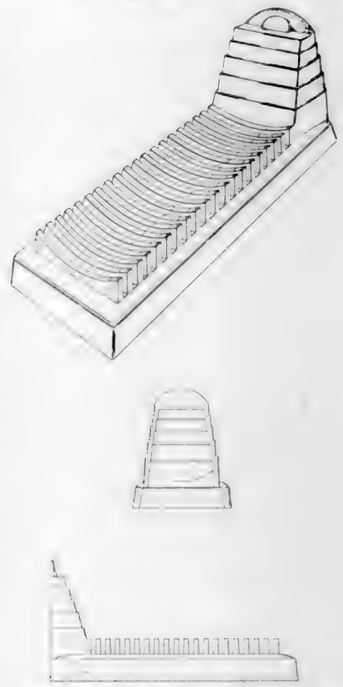
161,288
EARRING OR SIMILAR ARTICLE
Raymonde Semensohn, New York, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application September 9, 1950, Serial No. 12,119
Term of patent 3½ years
(Cl. D45—9)

The ornamental design for an earring or similar article, as shown.

161,289
EARRING OR SIMILAR ARTICLE
Raymonde Semensohn, Brooklyn, N. Y., assignor to Marcel Boucher et Cie., New York, N. Y., a corporation of New York
Application September 20, 1950, Serial No. 12,270
Term of patent 3½ years
(Cl. D45—9)

The ornamental design for an earring or similar article, as shown.

161,290
MATCH BOOK DISPLAY STAND
Joseph Shapiro, St. Louis, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware
Application April 19, 1950, Serial No. 9,332
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a match book display stand, substantially as shown.

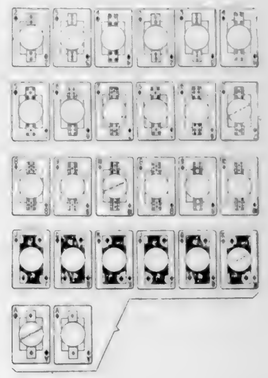
161,291
PLATE OR SIMILAR ARTICLE
Evan K. Shaw, Los Angeles, Melvin Shaw, Beverly Hills, and Robert Y. Allen, Encino, Calif., assignors to Metlox Manufacturing Company, Manhattan Beach, Calif., a corporation of California
Application April 3, 1950, Serial No. 8,951
Term of patent 14 years
(Cl. D44—15)

The ornamental design for a plate or similar article, as shown and described.

161,292
COMBINED ADJUSTABLE ASH TRAY AND CIGARETTE HOLDER
Isaac Henry Silver, Dallas, Tex.
Application December 2, 1949, Serial No. 6,389
Term of patent 14 years
(Cl. D85—2)

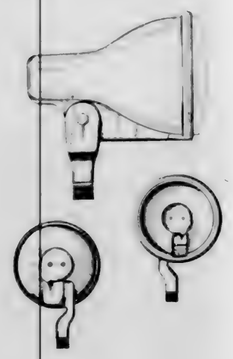
The ornamental design for a combined adjustable ash tray and cigarette holder, substantially as shown and described.

161,293
SET OF PLAYING CARDS
José Simoes, Jr., Sao Paulo, Brazil
Application May 27, 1949, Serial No. 2,903
Term of patent 14 years
(Cl. D34—13)



The ornamental design for a set of playing cards, as shown and described.

161,294
ELECTRIC LAMP HOLDER
Chester J. Sternaman, Springfield, Ill.
Application March 3, 1950, Serial No. 8,299
Term of patent 14 years
(Cl. D48—20)



The ornamental design for an electric lamp holder, substantially as shown and described.

161,295
CANDLE HOLDER
Rolf Törnström, Nattrabyhamn, Sweden
Application February 13, 1950, Serial No. 7,918
In Sweden August 24, 1949
Term of patent 3½ years
(Cl. D48—2)

The ornamental design for a candle holder, substantially as shown.

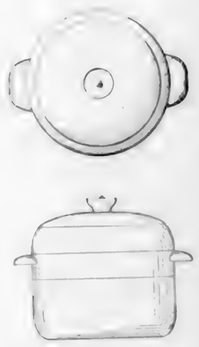
161,296
COMBINED WATCHCASE AND BRACELET
Henry K. Tourneau, New York, N. Y.
Application April 19, 1950, Serial No. 9,313
Term of patent 14 years
(Cl. D45—4)

The ornamental design for a combined watch case and bracelet, as shown.

161,297
PAIR OF SPECTACLES
Joseph R. Watkins, Dover, N. J., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application April 4, 1950, Serial No. 8,957
Term of patent 14 years
(Cl. D57—1)

The ornamental design for a pair of spectacles, substantially as shown and described.

161,298
ICE BUCKET OR THE LIKE
Manuel S. Ziskin, University Heights, and Ralph B. Billig, Erieside, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 1, 1948, Serial No. 148,405
Term of patent 14 years
(Cl. D44—1)



The ornamental design for an ice bucket or the like, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Antihistamine preparation. Serial No. 586,228, Dec. 19. Class 18.
Abbott Laboratories, North Chicago, Ill. Anticonvulsant agent. Serial No. 593,642, Dec. 19. Class 18.
Acomb, Harry L., Wayne, Pa. Industrial synthetic resins. Serial No. 587,617, Dec. 19. Class 6.
Adler Silhouette Letter Co., Chicago, Ill. Display signs. Serial No. 550,008, Dec. 19. Class 50.
Adler Silhouette Letter Co., Chicago, Ill. Individual demountable display sign characters. Serial No. 550,009, Dec. 19. Class 50.
Albrecht, F. Kenneth, Monkton, Md. Filing cases for photographic slides. Serial No. 581,155, Dec. 19. Class 26.
Allied Chemical & Dye Corporation, New York, N. Y. Halogenated hydrocarbons. Serial No. 578,672, Dec. 19. Class 6.
All-Steel Equipment Inc., Aurora, Ill. Hardware. Serial No. 564,310, Dec. 19. Class 13.
All-Steel Equipment Inc., Aurora, Ill. Hardware. Serial No. 564,313, Dec. 19. Class 13.
All-Steel Equipment Inc., Aurora, Ill. Hardware. Serial No. 564,315, Dec. 19. Class 13.
Alnik Co., The: *See*—
Gallegos, Everett A.
Altman, B., & Co., New York, N. Y. Floor wax and furniture wax. Serial No. 570,160, Dec. 19. Class 16.
Amalgamated Dental Company Limited, The, London, England. Dental instruments. Serial No. 572,149, Dec. 19. Class 44.
American Binder Company, Inc., The, New York, N. Y. Magnetized memo box containing writing paper and pencil. Serial No. 584,743, Dec. 19. Class 37.
American Character Doll Co., New York, N. Y. Dolls. Serial No. 593,154, Dec. 19. Class 22.
American Stores Company, Philadelphia, Pa. Ammonia, bluing, bleach water, etc. Serial No. 588,543, Dec. 19. Class 6.
American Tansul Company, San Francisco, Calif. Material for chillproofing and stabilizing malt beverages. Serial No. 596,769, Dec. 19. Class 6.
American Water Works Association, Inc., New York, N. Y. Bulletin. Serial No. 588,847, Dec. 19. Class 38.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Glass bottles. Serial No. 589,062, Dec. 19. Class 33.
Arco Electronics, Inc., New York, N. Y. Radio and television receivers and fixed and variable capacitors for radio and television receivers. Serial No. 597,055, Dec. 19. Class 21.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Skin cream. Serial No. 580,917, Dec. 19. Class 51.
Arkwright Merchandising Corporation, New York, N. Y. Curtains. Serial No. 578,478, Dec. 19. Class 42.
Armour and Company, doing business under the trade style Armour Creameries, Chicago, Ill. Cheese food spread. Serial No. 532,192, Dec. 19. Class 46.
Armour and Company, doing business under the trade style The Armour Laboratories, Chicago, Ill. Adenosine triphosphate. Serial No. 591,605, Dec. 19. Class 18.
Armour Creameries: *See*—
Armour and Company.
Armour Laboratories, The: *See*—
Armour and Company.
Ash, Edward A., doing business as Eddie Ash's Homestead Groves, Goulds, Fla. Fresh deciduous fruits. Serial No. 587,524, Dec. 19. Class 46.
Ash's, Eddie, Homestead Groves: *See*—
Ash, Edward A.
Automatic Fire Control Co.: *See*—
Mathis, Howard D.
Baker Castor Oil Company, The, Jersey City, N. J. Dehydrated castor oil, modified dehydrated castor oil, and modified linseed oil, for use in paints, varnishes, etc. Serial No. 592,537, Dec. 19. Class 16.
Bankers Trust Company, New York, N. Y. Banking and trust services. Serial No. 591,713, Dec. 19. Class 102.
Banks, George E., Wheeling, W. Va. Personal deodorant. Serial No. 588,625, Dec. 19. Class 51.
Barbecue Jake, Inc., Belleville, Ill. Horseradish, barbecue sauce and senf gurken. Serial No. 587,999, Dec. 19. Class 46.
Beauty Products, Ltd., Denver, Colo. Deodorant to be applied to the skin. Serial No. 540,156, Dec. 19. Class 51.
Blue Lake Packers, Inc., Salem, and West Salem, Oreg. Canned fruits, berries, and vegetables. Serial No. 558,624, Dec. 19. Class 46.
Botany Mills, Inc., Passaic, N. J. Wool protein, plasticizers, protective colloids. Serial No. 586,586, Dec. 19. Class 6.
Bradbury, Agnew & Co. Limited, London, England. Printed periodical. Serial No. 555,370, Dec. 19. Class 38.
Brand and Puritz, Kansas City, Mo. Ladies' coats and suits. Serial No. 545,227, Dec. 19. Class 39.
Brenner, Raymond: *See*—
Brenner, Raymond, Inc.
Brenner, Raymond, Inc., also trading as Raymond Brenner, Youngstown, Ohio. Ceramic articles. Serial No. 592,417, Dec. 19. Class 30.
Brenner, Raymond, Inc., also trading as Raymond Brenner, Youngstown, Ohio. Glassware. Serial No. 592,418, Dec. 19. Class 33.
Bulova Watch Company, Inc., New York, N. Y. Watches. Serial Nos. 595,821–2, Dec. 19. Class 27.
Burcal, Burbank, Calif. Men's and boys' suits, coats, jackets, etc. Serial No. 578,921, Dec. 19. Class 39.
Buxbaum Company, assignor to Buxbaum Company, Canton, Ohio. Household rubber mats. Serial No. 585,629, Dec. 19. Class 50.
Canfield Oil Company, Cleveland, Ohio. Lubricating oils. Serial No. 578,764, Dec. 19. Class 15.
Caro Book Company, Pittsburgh, Pa. Publication. Serial No. 589,637, Dec. 19. Class 38.
Carrier Corporation, Syracuse, N. Y. Dehumidifying units for removing moisture from air. Serial No. 560,603, Dec. 19. Class 34.
Carter, A. B., Incorporated, doing business as Mill Devices Co., Gastonia, N. C. Hand operated weavers' knotters. Serial No. 590,139, Dec. 19. Class 23.
Carworth Farms, Inc., New City, N. Y. Guinea pig complement. Serial No. 571,844, Dec. 19. Class 18.
Castle Sporting Goods Inc., Brooklyn, N. Y. Cartridge belts, shell pouches, rifle slings, etc. Serial No. 576,399, Dec. 19. Class 9.
Certified Dry Mat Corporation, New York, N. Y. Matrix, dry mat, or board used in stereotyping or electrotyping. Serial No. 593,972, Dec. 19. Class 50.
Chapell, M. S., West Orange, N. J. Hair tonic. Serial No. 573,357, Dec. 19. Class 51.
Chemstrand Corporation, The, Philadelphia, Pa. Yarns, threads, and yarn and thread filaments. Serial No. 582,519, Dec. 19. Class 43.
Cockburn & Co. (Leith) Limited, Edinburgh, Scotland, and London, England. Scotch whiskey. Serial No. 575,628, Dec. 19. Class 49.
Comet Model Hobbycraft, Inc., Chicago, Ill. Model airplane kits. Serial No. 592,359, Dec. 19. Class 22.
Comfort Spring Corporation, Baltimore, Md. Spring cushion units. Serial No. 590,647, Dec. 19. Class 32.
Connecticut General Life Insurance Company, Hartford, Conn. Magazines or periodicals. Serial No. 580,925, Dec. 19. Class 38.
Continental Mills, Inc., Philadelphia, Pa. Men's, women's, boys', girls', children's, and infants' overcoats, topcoats, coats, etc. Serial No. 561,379, Dec. 19. Class 39.
Cook, E. K., & Co., Inc., Washington, D. C. Medicinal preparation. Serial No. 589,075, Dec. 19. Class 18.
Cooper-Bessemer Corporation, Mt. Vernon, Ohio. Gas engines, oil engines, pumps, etc. Serial No. 549,053, Dec. 19. Class 23.
Cott Beverage Corporation, New Haven, Conn., assignee of Cott Beverage Corporation. Nonalcoholic maltless beverages. Serial No. 589,431, Dec. 19. Class 45.
Coty, Inc., New York, N. Y. Perfumed powder, dusting powder, toilet water, and perfume. Serial No. 596,779, Dec. 19. Class 51.
Crestwood Products Co. Inc., Syracuse, N. Y. Clocks. Serial No. 595,308, Dec. 19. Class 27.
Crotty Corporation, Quincy, Mich. Gasket or sealing material. Serial No. 596,270, Dec. 19. Class 35.
Cudahy Brothers Co., Cudahy, Wis. Canned pork luncheon meat. Serial No. 560,322, Dec. 19. Class 46.
Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixtures and parts thereof. Serial No. 577,063, Dec. 19. Class 21.
Debruille, Alexandre, New York, N. Y. Preparation used in the treatment of anaemia, chronic alcoholism, etc. Serial No. 594,957, Dec. 19. Class 18.
Delaware Mushroom Cooperative Association, Wilmington, Del. Canned mushrooms. Serial No. 588,481, Dec. 19. Class 46.
Delta Products Company, Wilson, Ark. Oleomargarine. Serial No. 591,073, Dec. 19. Class 46.
Dermetics, Inc., New York, N. Y. Atomizers and sprayers. Serial No. 572,025, Dec. 19. Class 44.
Devoe & Raynolds Company, Inc., New York, N. Y. Ready-mixed interior and exterior paints; varnishes; etc. Serial No. 554,212, Dec. 19. Class 16.
Dinah's Restaurant, Oklahoma City, Okla. Barbecue sauce and barbecued beans. Serial No. 587,941, Dec. 19. Class 46.
Dodge, H. B., and Company, Chicago, assignor to Charles Culver Shields, Lake Bluff, Ill. Hangers comprising hooks for the support of articles. Serial No. 569,438, Dec. 19. Class 13.
Dominion Oilcloth & Linoleum Co. Limited, Montreal, Quebec, Canada. Marbleized linoleum, and desk coverings, and marbleized linoleum tiling. Serial No. 567,764, Dec. 19. Class 20.

Dow Chemical Company, The, now by merger with The Dow Chemical Company, Midland, Mich. Blocks, boards, and other shapes of multicellular expanded synthetic resinous material. Serial No. 514,334, Dec. 19. Class 12.

Dow Plating Laboratories, Davison, Mich. Artificial casting and trolling lure. Serial No. 588,291, Dec. 19. Class 22.

Dryomatic Corporation of America, assignee: *See*— Peters, Brice G.

Dunbar Glass Corporation, Dunbar, W. Va. Glass jugs; vases, jars; sandwich trays; etc. Serial No. 564,015, Dec. 19. Class 33.

Dunhill, Alfred, Limited, London, England. Raw tobacco, smoking and chewing tobacco, etc. Serial No. 568,357, Dec. 19. Class 17.

Du Pont, E. I. de Nemours and Company, Wilmington, Del. Synthetic drying oils and mixtures. Serial No. 584,442, Dec. 19. Class 6.

Earl & Arlington, San Francisco, Calif. Gift and shower printed greeting cards. Serial No. 590,014, Dec. 19. Class 38.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic chemicals. Serial No. 579,403, Dec. 19. Class 6.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic cameras. Serial No. 597,391, Dec. 19. Class 26.

Elgin American Division of Illinois Watch Case Co.: *See*— Illinois Watch Case Co.

Ellena Brothers, Etiwanda, Calif. Brandy. Serial No. 519,866, Dec. 19. Class 49.

Elliot, B. K., Company, Pittsburgh, Pa. Blue print paper. Serial No. 594,463, Dec. 19. Class 37.

Endo Products, Inc., Richmond Hill, N. Y. Pharmaceutical preparation. Serial No. 587,017, Dec. 19. Class 18.

Epicure Fine Foods Co.: *See*— Vogl, Arnold.

F. M. Candy Corporation, Brooklyn, N. Y. Confectionery, sweetmeats, etc. Serial No. 587,374, Dec. 19. Class 46.

Far Eastern Manufacturing Company, Long Island City, N. Y. Shredded coconut. Serial No. 531,321, Dec. 19. Class 46.

Five Acres Farms, Telford, Pa. Piccalilli, jams, jellies, canned vegetables, etc. Serial No. 526,215, Dec. 19. Class 46.

Flexcraft Industries: *See*— Machleder, Irving.

Food and Nutrition Company of America: *See*— Jones, Joseph L.

Ford Motor Company, Dearborn, Mich. Independent wheel suspensions for automotive vehicles. Serial No. 580,835, Dec. 19. Class 19.

Freedman, Leonard, & Sons, New York, N. Y. Artificial leather. Serial No. 591,415, Dec. 19. Class 50.

Fuller Brush Company, The, Hartford, Conn. Furniture polish, furniture cream polish, liquid polishing wax, etc. Serial No. 543,434, Dec. 19. Class 4.

Gallegos, Everett A., doing business as The Alnik Co., Gallup, N. Mex. Kits containing fluid, flints, wicks, etc. Serial No. 583,794, Dec. 19. Class 8.

Galveston-Houston Breweries, Inc., Galveston, Tex. Beer. Serial Nos. 594,963–4, Dec. 19. Class 48.

Geier Mattress Company, The, Rossmoyne, Ohio. Mattresses. Serial No. 574,577, Dec. 19. Class 32.

Gellis, Isaac, Inc., New York, N. Y. Sausage, salami, bologna, pastrami, etc. Serial No. 544,161, Dec. 19. Class 46.

General Optical Company, Inc., Mount Vernon, N. Y. Ophthalmic lenses. Serial No. 597,077, Dec. 19. Class 26.

Gibbons, Guy I., Newton, Mass. Games. Serial No. 579,494, Dec. 19. Class 22.

Glidden Company, The, Cleveland, Ohio. Brazing paste. Serial No. 582,908, Dec. 19. Class 6.

Goya Incorporated, assignee: *See*— Goya Limited.

Goya Limited, London, England, assignor to Goya Incorporated, New York, N. Y. Perfumes and toilet waters. Serial No. 589,898, Dec. 19. Class 51.

Grand Manufacturing Company, Detroit, Mich. Combination dinette table and ironing board. Serial No. 589,087, Dec. 19. Class 32.

Grant Chemical Co., Inc., New York, N. Y. Medicinal preparation. Serial No. 591,618, Dec. 19. Class 18.

Grant, W. T., Company, New York, N. Y. Kitchen utensils. Serial No. 551,172, Dec. 19. Class 13.

Gray, Ellen: *See*— Wynne, Eleanor.

Hahn Shoe Mfg. Co., Philadelphia, Pa. Infants' shoes. Serial No. 526,225, Dec. 19. Class 39.

Harrison-Walker Refractories Company, Pittsburgh, Pa. High alumina refractory cement. Serial No. 595,894, Dec. 19. Class 12.

Heintz Manufacturing Company, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Chemical baths, etc. Serial No. 578,501, Dec. 19. Class 6.

Heller, B., & Company, Chicago, Ill. Powder used to destroy ants. Serial No. 568,793, Dec. 19. Class 6.

Hemet Packing Company, Hemet, Calif. Canned fruits. Serial No. 554,976, Dec. 19. Class 46.

Hershey Metal Products, Incorporated, Ansonia, Conn. Automobile front end suspension replacement parts. Serial No. 592,492, Dec. 19. Class 19.

Hers Manufacturing Corporation, New York, N. Y. Toothpicks. Serial Nos. 566,147–8, Dec. 19. Class 44.

Hodgens-Barnett & Co., Inc., Chippewa Falls, Wis. Unitary electrically operated apparatus for measuring, indicating, and automatically controlling the concentration of detergents, etc. Serial No. 561,017, Dec. 19. Class 26.

Hoffman, Kiva, Sherman Oaks, Calif. Facial high light make-up base. Serial No. 571,540, Dec. 19. Class 51.

Holland-Rantos Co., Inc., New York, N. Y. Clinical teaching model of the human anatomy. Serial No. 564,124, Dec. 19. Class 50.

Hotpoint Inc., Chicago, Ill. Faucets and valves. Serial No. 595,321, Dec. 19. Class 13.

Houck, Parker E., doing business as Parker-Taylor, Brentwood, Md. Candy. Serial No. 591,084, Dec. 19. Class 46.

House of Huston, Inc., Coral Gables, Fla. Preparation for the treatment of dog mange. Serial No. 591,621, Dec. 19. Class 18.

Howe, George J., Company, Inc., Grove City, Pa. Coffee. Serial No. 503,293, Dec. 19. Class 46.

Huber, Frederick W., Inc., New York, N. Y. Pie fillings, doughnut and pastry fillings, fondant for icing, etc. Serial No. 539,057, Dec. 19. Class 46.

Humble Oil & Refining Company, Houston, Tex. Ready mixed paints, protective paint coatings and thinners, etc. Serial No. 590,598, Dec. 19. Class 16.

Illinois Watch Case Co., operating under the name of Elgin American Division of Illinois Watch Case Co., Elgin, Ill. Combination cigarette case and lighter. Serial No. 593,799, Dec. 19. Class 8.

Interchemical Corporation, New York, N. Y. Carbon paper. Serial No. 583,135, Dec. 19. Class 11.

International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 591,483, Dec. 19. Class 46.

Johnson & Johnson, New Brunswick, N. J. Emergency kits. Serial No. 566,616, Dec. 19. Class 44.

Jolly Rancher, The, Golden, Colo. Candies and frozen desserts. Serial No. 594,845, Dec. 19. Class 46.

Joma Mfg. Co., Inc., New York, N. Y. Accessories and parts for automotive vehicles. Serial No. 567,979, Dec. 19. Class 19.

Jones, Joseph L., doing business as Food and Nutrition Company of America, Los Angeles, Calif. Multivitamin and mineral product. Serial No. 590,813, Dec. 19. Class 18.

Kauffman Bros. & Bondy, Inc., West New York, N. J. Smokers' pipes, cigar and cigarette holders. Serial No. 592,498, Dec. 19. Class 8.

Kaw Dehydrating Company, assignor to Kaw Dehydrating Company, Topeka, Kans. Ingredients of feeds. Serial No. 583,400, Dec. 19. Class 46.

Keeley Candy Company, Madison, Conn. Candy. Serial No. 532,418, Dec. 19. Class 46.

Kennecott Wire and Cable Company, Phillipsdale, R. I. Bare and insulated electric wire and cable. Serial No. 594,473, Dec. 19. Class 21.

Kepec Chemical Corporation, Milwaukee, Wis. Coloring and finishing material, in powder and in liquid form, for use on leather, paper and textiles. Serial No. 592,151, Dec. 19. Class 6.

Keystone Color Works, Inc., York, Pa. Wall paper pulp colors in the nature of chemical pigments. Serial No. 593,689, Dec. 19. Class 6.

King, Charles L., New York, N. Y. Tie racks. Serial No. 582,938, Dec. 19. Class 32.

Knapp-Monarch Company, St. Louis, Mo. Electric room heaters. Serial No. 561,194, Dec. 19. Class 21.

Kronmann, Emil, Copenhagen, Denmark. Art porcelain and stoneware figures. Serial No. 588,221, Dec. 19. Class 50.

Kwan Yick Fireworks Company: *See*— Tong, Tang P.

Laminated Plastics, Inc., East Cleveland, Ohio. Electrical insulating board. Serial No. 581,670, Dec. 19. Class 21.

Leroux and Company, Inc., Philadelphia, Pa. Alcoholic liquers. Serial No. 597,152, Dec. 19. Class 49.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. Serial No. 577,196, Dec. 19. Class 2.

Lewis, Conley A., doing business as Conley Lewis Company, Terra Alta, W. Va. Manually operable apparatus. Serial No. 580,018, Dec. 19. Class 23.

Lewis, Conley, Company: *See*— Lewis, Conley A.

Lewis-Shepard Products, Inc., Watertown, Mass. Floor trucks and parts thereof. Serial No. 543,724, Dec. 19. Class 19.

Lincoln Industries, Inc., Marion, Va. Table leaves. Serial No. 590,091, Dec. 19. Class 32.

Logan Co., Louisville, Ky. Fireplace screens. Serial No. 585,947, Dec. 19. Class 34.

London & Company, Inc., Elizabeth, N. J. Whiskey. Serial No. 552,153, Dec. 19. Class 49.

Loomtogs, Inc., New York, N. Y. Ladies' shirts and blouses. Serial No. 592,213, Dec. 19. Class 39.

Loong Yick Fireworks Company: *See*— Tong, Tang P.

MacDermid Incorporated, Waterbury, Conn. Dry acid salt. Serial No. 579,824, Dec. 19. Class 6.

Machleder, Irving, doing business under the name of Flexcraft Industries, New York, N. Y. Plastic-work kits. Serial No. 552,061, Dec. 19. Class 50.

MacLean, Neil A., Company, San Francisco, Calif. Hand-operated soil fumigator. Serial No. 570,903, Dec. 19. Class 23.

Magid, Philip, Brooklyn, N. Y. Gun swivels. Serial No. 587,810, Dec. 19. Class 9.

Malone, L. T., doing business as L. T. Malone Co., Phoenix, Ariz. Fresh vegetables and melons. Serial No. 587,339, Dec. 19. Class 46.

Malone, L. T., Co.: *See*— Malone, L. T.

Maltbie Chemical Company, The: *See*— Maltbie Laboratories, Inc.

Maltbie Laboratories, Inc., Newark, N. J., formerly The Maltbie Chemical Company. Preparation for estrogenic replacement therapy. Serial No. 587,495, Dec. 19. Class 18.

Manhattan Drug Company, Brooklyn, N. Y. Antihistamine tablets. Serial No. 589,518, Dec. 19. Class 18.

Manufacture de Produits Speciaux Robert Levaux, Ingenieur & Cie, Breteuil-Sur-Noye, France. Softening agent. Serial No. 576,123, Dec. 19. Class 6.

Mathis, Howard D., doing business as Automatic Fire Control Co., St. Louis, Mo. Fire fighting chemicals. Serial No. 555,421, Dec. 19. Class 6.

McCowan, David A., Inc., Buffalo, N. Y. Merchandise display stands or cabinets. Serial No. 593,544, Dec. 19. Class 32.

McLaughlin, Beatrice, Newton Square, Pa. Figurines. Serial No. 591,332, Dec. 19. Class 50.

Metal Awning Company of Memphis, Memphis, Tenn. Metal awnings. Serial No. 583,809, Dec. 19. Class 12.

Metal Wire Corporation, The, Two Rivers, Wis. Non-electric household pop corn poppers. Serial No. 522,206, Dec. 19. Class 13.

Micro-Lite Company, Inc., New York, N. Y. Flashlights. Serial No. 579,197, Dec. 19. Class 21.

Mid-West Bottle Cap Co., Belvidere, Ill. Dairy bottle caps. Serial No. 562,651, Dec. 19. Class 50.

Mill Devices Co.: *See*— Carter, A. B., Incorporated.

Monsanto Chemical Company, St. Louis, Mo. Wood treated with chemical preservative. Serial No. 587,643, Dec. 19. Class 12.

Moorman Manufacturing Company, Quincy, Ill. Mineral feed for cattle. Serial Nos. 580,086–7, Dec. 19. Class 46.

Murphy, H. B., Company, Brawley, Calif. Fresh vegetables. Serial No. 592,378, Dec. 19. Class 46.

Myerson, Ben, operating as Ben Myerson Candy Co., Los Angeles, Calif. Candy. Serial No. 535,734, Dec. 19. Class 46.

Myerson, Ben, Candy Co.: *See*— Myerson, Ben.

National Lead Company, New York, N. Y. Ground zirconium silicate. Serial No. 570,983, Dec. 19. Class 1.

National Lead Company, Sayreville, N. J., and New York, N. Y. Metal containers. Serial No. 578,700, Dec. 19. Class 2.

New England Playpen Company, Glastonbury, Conn. Children's play pens. Serial No. 585,345, Dec. 19. Class 32.

New York Laminating Company, Clinton, Mass. Decorated wall board. Serial No. 576,008, Dec. 19. Class 12.

Nopco Chemical Company, Harrison, N. J. Yarn lubricant. Serial No. 593,995, Dec. 19. Class 6.

Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals and printed decorative tags. Serial No. 588,228, Dec. 19. Class 38.

Norman Products Company, Columbus, Ohio. Gas-fired house heaters. Serial No. 547,757, Dec. 19. Class 34.

Nutrition Research Laboratories, Chicago, Ill., assignor to Nutrition Research Laboratores, Inc. Pharmaceutical preparation. Serial Nos. 583,706–07, Dec. 19. Class 18.

Nutrition Research Laboratores, Inc., assignee: *See*— Nutrition Research Laboratories.

Oil Well Supply Company, Dallas, Tex. Cable tool well drilling units, crown and travelling blocks, etc. Serial No. 567,874, Dec. 19. Class 23.

Pan American Products, Inc., Springfield Gardens, N. Y. Plaques, statuettes and figurines adaptable for the removal of odors, etc. Serial No. 583,409, Dec. 19. Class 6.

Pantasote Co., The, Passaic, N. J., and New York, N. Y. Plastic wall tile. Serial No. 590,281, Dec. 19. Class 12.

Paragon Insulation Co., Inc., Brooklyn, and New York, N. Y. Combination storm and screen windows, doors, window casements, etc. Serial No. 565,295, Dec. 19. Class 12.

Parfums Evyan Co.: *See*— Westall, Evelyn.

Parfums Evyan Inc., assignee: *See*— Westall, Evelyn.

Parker-Taylor: *See*— Houck, Parker E.

Patek Brothers, Inc., Milwaukee, Wis. Interior and exterior paints; calcimines; paint and baking enamels; etc. Serial No. 530,675, Dec. 19. Class 16.

Pennsylvania Salt Manufacturing Company, The: *See*— Heintz Manufacturing Company.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. Serial No. 594,607, Dec. 19. Class 6.

Percival, D. C., & Company, Incorporated, Boston, Mass. Watches, watch cases, watch parts, etc. Serial No. 594,658, Dec. 19. Class 27.

Perkins Products Company, Chicago, Ill. Non-alcoholic, non-cereal, maltless carbonated and non-carbonated beverages. Serial No. 578,216, Dec. 19. Class 45.

Peters, Brice G., assignor to Dryomatic Corporation of America, Baltimore, Md. Apparatus for extracting moisture from air for dehumidification purposes. Serial No. 556,364, Dec. 19. Class 34.

Philco Corporation, Philadelphia, Pa. Electric ranges. Serial No. 581,353, Dec. 19. Class 21.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Toilet preparation. Serial Nos. 598,185–6, Dec. 19. Class 51.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Toilet preparation. Serial No. 596,190, Dec. 19. Class 51.

Pope & Talbot, Inc., San Francisco, Calif. Lumber. Serial No. 589,987, Dec. 19. Class 12.

Price-Pfister Mfg. Co., Los Angeles, Calif. Faucets. Serial No. 508,439, Dec. 19. Class 13.

Procter & Gamble Company, The, Cincinnati, Ohio. Edible vegetable oil. Serial No. 568,659, Dec. 19. Class 46.

Q-Tips, Inc., Long Island City, N. Y. Certain toilet accessories. Serial No. 590,522, Dec. 19. Class 51.

Quigan, Frank J., Inc., Maspeth, N. Y. Handbag frames. Serial No. 567,879, published Dec. 19. Class 3.

R & G Milk Products, Inc., New York, N. Y. Ice cream. Serial No. 513,685, Dec. 19. Class 46.

Reichhold Chemicals, Inc., Detroit, Mich. Styrenated glycerol phthalate resin solutions. Serial No. 565,578, Dec. 19. Class 6.

Reiss-Premier Corporation, The, West New York, N. J. Smokers' pipes, cigar and cigarette holders. Serial No. 595,036, Dec. 19. Class 8.

Remington Arms Company, Inc., Bridgeport, Conn. Firearms. Serial No. 586,364, Dec. 19. Class 9.

Ritts Co.: *See*— Ritts, Herbert, Inc.

Ritts, Herbert, Inc., doing business under the fictitious firm name of Ritts Co., Los Angeles, Calif. Chairs, tables and settees. Serial No. 573,142, Dec. 19. Class 32.

Ritts, Herbert, Inc., doing business as Ritts Co., Los Angeles, Calif. Chairs, tables and settees. Serial No. 573,144, Dec. 19. Class 32.

Ruhm Phosphate & Chemical Company, Mt. Pleasant, Tenn. Periodicals. Serial No. 579,517, Dec. 19. Class 38.

S. A. Chianti Ruffino, Brescia, Italy. Wines. Serial Nos. 577,098–9, Dec. 19. Class 47.

Sally Ann Cookies, Fox River Grove, Ill. Baked cookies. Serial No. 583,053, Dec. 19. Class 46.

Sangamo Electric Company, Springfield, Ill. Circuit breakers, shunts, transformers, and electric capacitors. Serial No. 583,550, Dec. 19. Class 21.

Schafer Company, Inc., The, Decatur, Ind. Gloves. Serial No. 588,773, Dec. 19. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Tablets. Serial No. 587,358, Dec. 19. Class 18.

Schering Corporation, Bloomfield, N. J. Tablets containing hormone substances. Serial No. 569,643, Dec. 19. Class 18.

Schindler's Peanut Products, Inc., Washington, D. C., and Baltimore, Md. Peanut butter sandwiches. Serial No. 544,205, Dec. 19. Class 46.

Schock, Gusmer & Co., Inc., Hoboken, N. J. Lauter tubs. Serial No. 566,894, Dec. 19. Class 23.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Arch supports. Serial No. 563,222, Dec. 19. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Slips, nightgowns, corsets, etc. Serial No. 512,710, Dec. 19. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Pocket and wrist watches. Serial No. 596,198, Dec. 19. Class 27.

Shaler Company, The, Waupun, Wis. Chemical additive to lubricating oil. Serial No. 543,843, Dec. 19. Class 15.

Shapleigh Hardware Company, St. Louis, Mo. Ready mixed liquid paint, varnish and enamel. Serial No. 590,105, Dec. 19. Class 16.

Shaw-Walker Company, The, Muskegon, Mich. Insulated filing cabinets. Serial No. 588,050, Dec. 19. Class 32.

Shields, Charles C., assignee: *See*— Dodge, H. B., and Company.

Siegl, Rudolf R., Stonecrest, N. Y. Maps. Serial No. 590,042, Dec. 19. Class 38.

Signal-Stat Corporation, Brooklyn, N. Y. Vehicle direction signal switches. Serial No. 594,922, Dec. 19. Class 21.

Skyline Publications, Inc., New York, N. Y. Section of a periodical publication. Serial No. 588,531, Dec. 19. Class 38.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for stimulation of the central nervous system. Serial No. 584,161, Dec. 19. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for the treatment of anemia. Serial No. 584,997, Dec. 19. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparations. Serial Nos: 593,692–3, Dec. 19. Class 18.

Sociedade Lusitana de Destilâço, Limitada, Lisbon, Portugal. Brandy. Serial No. 568,812, Dec. 19. Class 49.

Société à Responsabilité Limitée Comptoir de L'Industrie Cotonniere, Paris, France. Dressmaker's forms. Serial No. 550,750, Dec. 19. Class 50.

Southern Belting Company, Atlanta, Ga. Leather and comparable straps for textile machinery. Serial No. 593,753, Dec. 19. Class 23.

South Pacific Canning Company, Long Beach, Calif. Canned mackerel. Serial No. 573,102, Dec. 19. Class 46.

Steelcraft Manufacturing Company, The, Rossmoyne, Ohio. Sliding steel doors. Serial No. 595,858, Dec. 19. Class 12.

Sterling Drug Inc., New York, N. Y. Agricultural antiseptic and inhibiting agent. Serial No. 573,012, Dec. 19. Class 6.

Steven Candy Kitchens, Inc., Chicago, Ill. Candies. Serial No. 559,648, Dec. 19. Class 46.

Stove, Roy C., & Company, Chicago, Ill. Electric-ultraviolet ray lamp fixture. Serial No. 558,602, Dec. 19. Class 21.

Stuart, D. A., Oil Co., Limited, Chicago, Ill. Heat treating compounds. Serial No. 534,683, Dec. 19. Class 6.

Sunbeam Corporation, Chicago, Ill. Electric toasters. Serial No. 595,691, Dec. 19. Class 21.

Sunmaster Products Co., San Bruno, Calif. Step-ladders. Serial No. 581,915, Dec. 19. Class 50.

Sunspiced Vegetables, Inc., Vacaville, Calif. Dried onions. Serial No. 560,364, Dec. 19. Class 46.

Sunvic Controls Limited, London and Strand, London, England. Regulating electric switch. Serial No. 596,368, Dec. 19. Class 21.

Superior Watch Corporation, New York, N. Y. Watches and parts thereof. Serial No. 595,624, Dec. 19. Class 27.

Switzer Licorice Company, St. Louis, Mo. Candy. Serial No. 592,170, Dec. 19. Class 46.

Tang Pik Tong, carrying on business under the name of Yick Loong Fireworks Company, Hong Kong, China. Fireworks. Serial No. 569,488, Dec. 19. Class 9.

Tang Pik Tong, doing business as Kwan Yick Fireworks Company, Hong Kong, China. Fireworks. Serial No. 569,489, Dec. 19. Class 9.

Towns, Edward J., West Orange, N. J., assignee of Towns Quality Products, Inc. Bottle closures. Serial No. 592,171, Dec. 19. Class 50.

Towns Quality Products, Inc.: *See*—
Towns, Edward J.

Travelers Insurance Company, The, Hartford, Conn. Underwriting life, accident, health, casualty, fire, marine and inland marine insurance, etc. Serial No. 537,636, Dec. 19. Class 102.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Carbide and Carbon Corporation, New York, N. Y. Chlorinated hydrocarbons and derivatives thereof. Serial No. 578,545, Dec. 19. Class 6.

United China and Glass Company, New Orleans, La. Chinaware. Serial No. 590,400, Dec. 19. Class 30.

United Distillers of America, Inc., New York, N. Y. Antifreeze. Serial No. 594,004, Dec. 19. Class 6.

U. S. Lite-Ray Company, Dayton, Ohio. Non-electrical reflecting signs and house numbers. Serial No. 506,071, Dec. 19. Class 50.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 565,829, Dec. 19. Class 18.

Valentine & Company, Inc., New York, N. Y. Ready-mixed aluminum paint. Serial No. 554,276, Dec. 19. Class 16.

Vascular Pharmacentical Company, Inc., Roslyn Heights, N. Y. Ethically sold preparation. Serial No. 587,515, Dec. 19. Class 18.

Velodent Products Manufacturing Co., Inc., New York, N. Y. Rodenticides. Serial No. 580,159, Dec. 19. Class 6.

Vernon-Benshoff Company, Pittsburgh, Pa. Block of transparent plastic material. Serial No. 593,195, Dec. 19. Class 50.

Virginia Greenstone Company, Incorporated, Lynchburg, Va. Stone. Serial No. 586,332, Dec. 19. Class 12.

Vogl, Arnold, doing business under the name and style of Epicure Fine Foods Co., Eastport, Maine. Canned fish. Serial No. 582,711, Dec. 19. Class 46.

Wabash Manufacturing Company, Chicago, Ill. Hose made of rubber or fabric, or a combination thereof. Serial No. 583,721, Dec. 19. Class 35.

Walter, Charles R., Cleveland, Ohio. Cartoon mats for newspapers. Serial No. 580,005, Dec. 19. Class 38.

Wander Company, The, Chicago, Ill. High protein supplement. Serial No. 588,612, Dec. 19. Class 18.

Wasserman, Ray, Corpus Christi, Tex. Liquid preparation for relief of prickly heat and mosquito bites. Serial No. 578,472, Dec. 19. Class 18.

Webb's City, Inc., St. Petersburg, Fla. Cigars. Serial No. 557,405, Dec. 19. Class 17.

Wedgwood, Josiah, & Sons Incorporated, New York, N. Y. Ceramic dinnerware. Serial No. 586,896, Dec. 19. Class 30.

Westall, Evelyn, doing business as Parfums Evyan Co., New York, N. Y., assignor to Parfums Evyan Inc. Perfume. Serial No. 586,447, Dec. 19. Class 51.

Western Dairy Products, Inc., San Francisco, Calif. Fresh eggs. Serial No. 536,855, Dec. 19. Class 46.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. Serial No. 526,029, Dec. 19. Class 37.

Westinghouse Electric Corporation, Pittsburgh, Pa., and Mansfield, Ohio. Electric ranges and parts thereof. Serial No. 595,993, Dec. 19. Class 21.

West Virginia Pulp and Paper Company, New York, N. Y. Book papers, writing papers, printing papers, etc. Serial No. 559,410, Dec. 19. Class 37.

Whitmire Research Laboratories, Inc., St. Louis, Mo. Insect repellent. Serial No. 593,895, Dec. 19. Class 6.

Wico Electric Company, West Springfield, Mass. Electric cigarette lighters. Serial No. 593,308, Dec. 19. Class 8.

Wigwam Flue Top Company, Abington, Mass. Metal chimney tops. Serial No. 584,306, Dec. 19. Class 34.

Wilson Manufacturing Company, Inc., Wichita Falls, Tex., and elsewhere. Derricks, mast poles, chain and gear transmissions, etc. Serial No. 496,745, Dec. 19. Class 23.

Winthrop-Stearns Inc., New York, N. Y. Medicinal preparation. Serial No. 584,784, Dec. 19. Class 18.

Wynne, Eleanor, doing business under the assumed name of Ellen Gray, New York, N. Y. Canned soups. Serial No. 593,648, Dec. 19. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Pharmaceutical preparation. 534,967, Dec. 19; Serial No. 575,514, published May 31, 1949. Class 18.

Ackerman, Simon, Clothes, Inc., New York, N. Y. Men's and young men's coats, vests, trousers, etc. 534,934, Dec. 19; Serial No. 567,670, published Aug. 22, 1950. Class 39.

Acme Breweries, doing business under the name of Peerless Yeast Co., San Francisco, Calif. Yeast; yeast food; and malt extract. 535,094, Dec. 19; Serial No. 534,422. Class 46.

Acme Cement Plaster Co., St. Louis, Mo., by Certain-teed Products Corporation, Ardmore, Pa. Plaster. 53,674, June 12, 1906. Republished Dec. 19. Class 12.

Adam, Bob, doing business as Yeast-Ayd Feeds, formerly doing business as Yeast Feed Distributors, Sterling, Kans. Live cell yeast culture. 535,096, Dec. 19; Serial No. 547,953. Class 46.

Adler Sons Shoe Corp., New York, N. Y. Men's shoes and sandals. 534,847, Dec. 19; Serial No. 512,887, published Sept. 5, 1950. Class 39.

Advertising Publications, Incorporated, Chicago, Ill. Periodical. 273,431, Aug. 5, 1930. Republished Dec. 19. Class 38.

Airko Manufacturing Co.: *See*—
Air Konditioning Company, The.

Air Konditioning Company, The, Clermont, Fla., now by change of name Airko Manufacturing Co. Glass salt and pepper shakers. 534,892, Dec. 19; Serial No. 556,753, published July 25, 1950. Class 33.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Agricultural machines. 534,884, Dec. 19; Serial No. 552,559, published Aug. 22, 1950. Class 23.

All-Protect Products Corporation, New York, N. Y. Liquid varnish preparation. 535,106, Dec. 19; Serial No. 563,386. Class 16.

American Air Filter Company, Inc., Louisville, Ky. Mechanical viscous-type ventilating air filters. 534,913, Dec. 19; Serial No. 561,999, published Sept. 19, 1950. Class 31.

American Gas and Electric Company, New York, N. Y. Public utility services. 535,090, Dec. 19; Serial No. 587,148, published Aug. 29, 1950. Class 100.

American Lace Leather Co., Inc., Richmond, Va. Lacings for leather belts. 535,119, Dec. 19; Serial No. 588,782. Class 35.

American Machine and Metals, Inc., New York, N. Y. Dry-cleaning machinery. 535,121, Dec. 19; Serial No. 590,344. Class 24.

American Molasses Company: *See*—
American Molasses Co. of New York, The.

American Molasses Co. of New York, The, New York, Brooklyn and New York, N. Y., to American Molasses Company, New York, N. Y. Molasses. 277,569, renewed Nov. 18, 1950. O. G. Dec. 19. Class 46.

American Rolling Mill Company, The, Middletown, Ohio, now by change of name Armco Steel Corporation. Specially prepared ferrous metal products. 534,852, Dec. 19; Serial No. 527,716, published Aug. 15, 1950. Class 12.

American Rolling Mill Company, The, Middletown, Ohio, now by change of name Armco Steel Corporation. Specially prepared ferrous metal products. 534,853, Dec. 19; Serial No. 528,033, published Aug. 15, 1950. Class 12.

American Textile Company, Inc., Pawtucket, R. I. Lace piece goods. 534,932, Dec. 19; Serial No. 567,480, published Sept. 12, 1950. Class 42.

American Velour Mills, Inc., Bound Brook, N. J. Pile fabrics. 534,995, Dec. 19; Serial No. 580,041, published Sept. 12, 1950. Class 42.

Amm-i-dent, Inc., Jersey City, N. J. Powder and paste dentifrice. 535,011, Dec. 19; Serial No. 582,513, published Dec. 20, 1949. Class 51.

Anglo Fabrics Company, Inc., New York, N. Y. Woolen and worsted piece goods. 535,077, Dec. 19; Serial No. 593,704, published Sept. 12, 1950. Class 42.

Anthony Growers Cooperative Association, Anthony, N. Mex. Fresh melons and fresh onions. 534,946, Dec. 19; Serial No. 570,762, published Aug. 1, 1950. Class 46.

Armco Steel Corporation: *See*—
American Rolling Mill Company, The.

Armour and Company, Chicago, Ill. Fresh meat and meat cuts. 534,846, Dec. 19; Serial No. 507,708, published Aug. 15, 1950. Class 46.

Arnold, S. M., Inc., St. Louis, Mo. Chamois skins. 534,875, Dec. 19; Serial No. 543,403, published Sept. 19, 1950. Class 1.

Associated Brands, Inc., Brooklyn, N. Y. Hair dressing. 534,957, Dec. 19; Serial No. 573,025, published Aug. 15, 1950. Class 51.

Associated Engineering Company: *See*—
Lupo, Joseph.

Aunt Nellie's Farm Kitchen, Inc., Clyman, Wis. Canned beets. 534,874, Dec. 19; Serial No. 543,054, published Aug. 8, 1950. Class 46.

Automatic Pump & Softener Corporation, Rockford, Ill. Valves and parts thereof. 534,963, Dec. 19; Serial No. 574,813, published Sept. 19, 1950. Class 13.

Avalon Leather Board Company Limited, Street, England. Stiffeners for boots and shoes. 534,947, Dec. 19; Serial No. 571,000, published Sept. 5, 1950. Class 39.

Avondale Mills, Sylacauga, Ala. Cotton and cotton and woolen piece goods. 534,953, Dec. 19; Serial No. 572,345, published Sept. 12, 1950. Class 42.

Ayer, Harriet Hubbard, Inc., assignor to Lever Brothers Company, New York, N. Y. Cologne, perfume, bath oil, bath powder, etc. 534,899, Dec. 19; Serial No. 558,717, published Sept. 12, 1950. Class 51.

Baldwin Locomotive Works, The, Eddystone, Pa. Nonferrous metals and nonferrous metal castings. 535,100, Dec. 19; Serial No. 554,080. Class 14.

Bangor Slate Association Inc., Bangor, Pa. Roofing slate. 278,357, renewed Dec. 16, 1950. O. G. Dec. 19. Class 12.

Battaglia, William, San Jose, Calif. Canned prunes. 535,112, Dec. 19; Serial No. 578,919. Class 46.

Battenfeld Grease & Oil Corp., Kansas City, Mo. Caulking compounds. 535,118, Dec. 19; Serial No. 582,466. Class 12.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets; bed comfortables; quilts, etc. 534,911, Dec. 19; Serial No. 561,794, published Sept. 12, 1950. Class 42.

Beacon Manufacturing Company, Swannanoa, N. C. Crib blankets. 534,912, Dec. 19; Serial No. 561,797, published Sept. 12, 1950. Class 42.

Belinda Undergarment Co., Inc., Brooklyn, N. Y. Women's and misses' underwear. 534,871, Dec. 19; Serial No. 541,497, published Sept. 26, 1950. Class 39.

Belmag Zuerich, Beleuchtungs-und Metallindustrie A. G., Zurich, Switzerland. Irradiation apparatus. 444,362, Dec. 19; Serial No. 512,894, published Sept. 19, 1950. Class 44.

Berkeley Club Bottling and Manufacturing Company, Inc., Berkeley Springs, W. Va. Nonalcoholic, noncereal, maltless beverages. 359,107, Aug. 2, 1938. Republished Dec. 19. Class 45.

Berman, Benjamin, doing business as Stonhard Company, Cleveland, Ohio, by Stonhard Company, Philadelphia, Pa. Liquid preparation for use as a concrete hardener and foundation coating, etc. 182,182, Apr. 1, 1924. Republished Dec. 19. Class 12.

Better-Bilt Manufacturing Company, Minneapolis, Minn. Power operated portable elevators. 535,095, Dec. 19; Serial No. 543,084. Class 23.

Blue Hill Candy Co., St. Louis, Mo. Candies. 535,108, Dec. 19; Serial No. 569,426. Class 46.

Bonat & Bonat, Inc., New York, N. Y. Machineless hair waving pads. 534,950, Dec. 19; Serial No. 571,893, published Aug. 15, 1950. Class 44.

Boston Metals Company, The, Baltimore, Md., and Chester, Pa. Chain links and detachable chain links. 534,964, Dec. 19; Serial No. 575,245, published Sept. 19, 1950. Class 13.

Bostrom Manufacturing Company, Milwaukee, Wis. Seat mountings, seat suspensions and seats and seat cushions. 535,105, Dec. 19; Serial No. 558,101. Class 23.

Botany Mills, Inc., Passaic, N. J. Worsted piece goods. 535,070, Dec. 19; Serial No. 593,256, published Sept. 12, 1950. Class 42.

Brakeman, James R., East Lansing, Mich. Fluid honing metal dies, tools and other products. 535,089, Dec. 19; Serial No. 578,762, published Sept. 12, 1950. Class 106.

Brick Inc.: *See*—
Rees, Fallis F.

Bristol Manufacturing Corporation, Bristol, R. I. Athletic shoes. 535,060, Dec. 19; Serial No. 590,642, published Sept. 26, 1950. Class 39.

British Belting & Asbestos Limited, Cleckheaton, England. Machine belting and conveyor belting. 535,026, Dec. 19; Serial No. 585,698, published Sept. 5, 1950. Class 35.

Bronston Hat Co., Plainfield, N. J. Men's, women's and children's straw hats. 300,610, Jan. 24, 1933. Canceled Oct. 11, 1950. O. G. Dec. 19. Class 39.

Bryant Knitting Mills: *See*—
Revere Knitting Mills, Inc.

Bryant Manufacturing Company, Inc., Providence, R. I. Automobile seat covers. 535,117, Dec. 19. Serial No. 582,123. Class 19.

Bumper Products, Inc., New York, N. Y. Protectors for the upper and lower front portion of shoes. 534,956, Dec. 19; Serial No. 572,721, published Sept. 5, 1950. Class 39.

Burd Buyers Service: *See*—
Burd, Samuel I.

Burd, Samuel I., doing business as Burd Buyers Service, Philadelphia, Pa., to Lycoming Hosiery Company, Inc., New York, N. Y. Hosiery. 279,023, renewed Jan. 6, 1951. O. G. Dec. 19. Class 39.

Burgess-Manning Company, Libertyville, Ill. Intake air cleaners and combination cleaners and silencers. 535,057, Dec. 19; Serial No. 590,581, published Sept. 19, 1950. Class 31.

Butler Brothers, Chicago, Ill. Gloves and mittens. 348,252, July 20, 1937. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 39.

Butler Brothers, Chicago, Ill. Fingernail files, tweezers, and cuticle scissors. 535,035, Dec. 19; Serial No. 587,012, published Sept. 12, 1950. Class 44.

Buxton, Incorporated, Springfield, Mass. Billfolds. 535,054, Dec. 19; Serial No. 589,499, published Aug. 29, 1950. Class 3.

Byer-Rolnick Company, Garland, assignor to Resistol Hats, Inc., Dallas, Tex. Men's hats. 534,862, Dec. 19; Serial No. 533,845, published Aug. 22, 1950. Class 39.

California Co-operative Producers, San Francisco, to Frank M. Wilson Company, Stockton, Calif. Canned fruits, canned vegetables, dried fruits, etc. 278,452, renewed Dec. 16, 1950. O. G. Dec. 19. Class 46.

Callot Soeurs of Paris, Inc., New York, N. Y. Dresses, suits and coats for women. 535,042, Dec. 19; Serial No. 587,791, published Sept. 5, 1950. Class 39.

Camille Designs, Inc., St. Louis, Mo. Women's and misses' shoes. 535,072, Dec. 19; Serial No. 593,467, published Sept. 26, 1950. Class 39.

Cannon Shoe Company, Baltimore, Md. Shoes. 535,079, Dec. 19; Serial No. 594,357, published Sept. 19, 1950. Class 39.

Capitol Fuel Company, The, Cleveland, Ohio. Coal. 534,928, Dec. 19; Serial No. 566,120, published Feb. 14, 1950. Class 1.

Carlin Comforts, Inc., New York, N. Y. Textile blankets, comforts, motor robes, etc. 534,944, Dec. 19; Serial No. 569,809, published Aug. 8, 1950. Class 42.

Carroll, Craig, Company: *See*—
Carroll, William C., Jr.

Carroll, William C., Jr., doing business under the name Craig Carroll Company, Portland, Oreg. Filters, and replacement filter elements. 535,107, Dec. 19; Serial No. 565,540. Class 31.

Cashan & Co., Camden, N. J. Canned mushrooms, bottled pickles, olives, etc. 535,098, Dec. 19; Serial No. 549,710. Class 46.

Caulk, L. D., Company, The, Milford, Del. Acrylic resin denture materials. 534,918, Dec. 19; Serial No. 564,189, published Sept. 19. Class 44.

Cecil, Paul W., Oklahoma City, Okla. Insulation board. 534,936, Dec. 19; Serial No. 567,840, published Aug. 29, 1950. Class 32.

Celanese Corporation of America, New York, N. Y. Piece goods. 535,065, Dec. 19; Serial No. 592,073, published Sept. 12, 1950. Class 42.

Certain-teed Products Corporation: *See*—
Acme Cement Plaster Co.

Chappel Bros., Inc., Rockford, to The Quaker Oats Company, Chicago, Ill. Prepared food for dogs, cats, etc. 278,526, renewed Dec. 23, 1950. O. G. Dec. 19. Class 46.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Duck shower-bath curtains. 278,462, renewed Dec. 16, 1950. O. G. Dec. 19. Class 42.

Chase, Roy B., doing business as R. B. Chase & Company, Drexel Hill, Pa. Salt water taffy. 535,104, Dec. 19; Serial No. 557,260. Class 46.

Chase, R. B., & Company: *See*—
Chase, Roy B.

Cheneys, The, Los Angeles, Calif. Prepared foods. 534,845, Dec. 19; Serial No. 506,801, published Aug. 1, 1950. Class 46.

Chime Cosmetics, Inc., New York, N. Y. Cream shampoo. 534,982, Dec. 19; Serial No. 577,258, published Aug. 8, 1950. Class 52.

Chocolat Suchard Societe Anonyme, Neuchatel, Switzerland. Chocolate bars. 534,848, Dec. 19; Serial No. 517,034, published Aug. 1, 1950. Class 46.

Cities Service Oil Company, Bartlesville, Okla. Tires; tubes; accessories; etc. 534,949, Dec. 19; Serial No. 571,407, published Aug. 29, 1950. Class 35.

Clean-Rite Vacuum Stores of Washington, Inc., Washington, D. C. Sewing machines and parts thereof. 534,993, Dec. 19; Serial No. 579,735, published Sept. 12, 1950. Class 23.

Clergine-Parfumeur, Societe a Responsabilite Limitee, Paris, France. Perfumes, toilet water, colognes, etc. 534,972, Dec. 19; Serial No. 576,522, published Sept. 12, 1950. Class 51.

Cliff, A. B., doing business as Racing Teal Ranch, Pasadena and Thermal, to Desert Sun Ranch, Thermal, Calif. Fresh citrus fruits, fresh dates, fresh grapes. 280,268, renewed Feb. 10, 1951. O. G. Dec. 19. Class 46.

Columbia Fastener Company, Chicago, Ill. Dress fasteners. 534,930, Dec. 19; Serial No. 566,975, published Aug. 22, 1950. Class 40.

Comfort Paper Corporation: *See*—
National Paper Products Company.

Compo-Miracle Products Co.: *See*—
Sylvan, Joseph.

Consolidated Chemical Industries, Inc., San Francisco, Calif. Glues and gelatins in powder form. 535,002, Dec. 19; Serial No. 581,122, published Sept. 19, 1950. Class 5.

Consolidated Flour Mills Company, The, Wichita, Kans. Wheat flour. 534,991, Dec. 19; Serial No. 579,172, published Aug. 1, 1950. Class 46.

Cook, A. D., Incorporated, Lawrenceburg, Ind. Packing for pumps. 535,110, Dec. 19; Serial No. 574,019. Class 35.

Coon, W. B., Company, Rochester, N. Y. Shoes and oxfords. 534,879, Dec. 19; Serial No. 547,702, published Sept. 12, 1950. Class 39.

Cornstalis Company, Inc., Alexandria, Va. Exploded cereal food product. 534,958, Dec. 19; Serial No. 573,307, published Aug. 1, 1950. Class 46.

Coro, Inc., New York, N. Y. Jewelry. 534,992, Dec. 19; Serial No. 579,175, published Aug. 22, 1950. Class 28.

Countess Mara, Inc., New York, N. Y. Men's clothing. 534,902, Dec. 19; Serial No. 559,007, published Aug. 22, 1950. Class 39.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, coats, suits, etc. 535,038, Dec. 19; Serial No. 587,181, published Sept. 26, 1950. Class 39.

Cudahy Brothers Co., Cudahy, Wis. Hog food, etc. 510,790, June 7, 1949. Canceled Nov. 15, 1950. O. G. Dec. 19. Class 46.

Curtis-Stephens-Embry Co., Inc., Reading, Pa. Men's, women's and children's shoes. 535,029, Dec. 19; Serial No. 586,267, published Sept. 5, 1950. Class 39.

Dallas Wholesale Co., Ltd., Selma, Ala. Hosiery, sweaters, etc. 534,914, Dec. 19; Serial No. 562,330, published Sept. 19, 1950. Class 39.

Dan River Mills, Incorporated, Danville, Va. Piece goods. 534,986, Dec. 19; Serial No. 578,008, published Sept. 12, 1950. Class 42.

Dart, Robert H., Sacramento, Calif. Fresh citrus fruits, fresh deciduous fruits, fresh melons. 280,269, renewed Feb. 10, 1951. O. G. Dec. 19. Class 46.

Decorative Fabrics, Inc., New York, N. Y. Textile fabrics. 534,990, Dec. 19; Serial No. 579,019, published Sept. 12, 1950. Class 42.

Deepsouth Packing Company, New Orleans, La. Processed shrimp. 534,955, Dec. 19; Serial No. 572,644, published Aug. 1, 1950. Class 46.

Deering Milliken & Company, Inc., New York, N. Y. Fabrics in the piece. 535,044, Dec. 19; Serial No. 591,898, published Aug. 29, 1950. Class 42.

Deister Concentrator Company, The, Fort Wayne, Ind. Coal washing and ore concentrating tables. 534,897, Dec. 19; Serial No. 557,910, published Aug. 29, 1950. Class 23.

Delman, Inc., New York, N. Y. Shoes. 535,017–18, Dec. 19; Serial Nos. 584,111–12, published Aug. 22, 1950. Class 39.

De Luxe Products Corporation, La Porte, Ind. Oil filters and cartridges for oil filters. 535,051, Dec. 19; Serial No. 588,635, published Sept. 12, 1950. Class 31.

Densco, Incorporated, Denver, Colo. Contra-angle nuts for taper shank burs. 534,965, Dec. 19; Serial No. 575,393, published Sept. 12, 1950. Class 44.

Desert Sun Ranch: *See*—
Cliff, A. B.

Dexter Machine Products, Inc., Chelsea, Mich. Timing gears. 534,882, Dec. 19; Serial No. 551,091, published Sept. 12, 1950. Class 23.

Diamond Match Company, The, New York, N. Y. Toothpicks. 535,047, Dec. 19; Serial No. 588,287, published Aug. 29, 1950. Class 44.

Dixon-Bartlett Company, Baltimore, Md. Shoes. 535,080, Dec. 19; Serial No. 594,896, published Sept. 26, 1950. Class 39.

Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 280,586, renewed Feb. 24, 1951. O. G. Dec. 19. Class 37.

Dodge, F. W., Corporation: *See*—
Stark-Rath Printing and Publishing Company.

Donovan Enterprises, Incorporated, Saugatuck, Conn. Diaper coverings. 535,036, Dec. 19; Serial No. 587,016, published Sept. 26, 1950. Class 39.

Doughnut Corporation of America, New York, N. Y. Prepared flour. 380,173, Aug. 13, 1940. Canceled Oct. 27, 1950. O. G. Dec. 19. Class 46.

Dunaway, Judson, Corporation, Dover, N. H. Metal can closure. 444,361, Dec. 19; Serial No. 504,343, published Aug. 29, 1950. Class 50.

Du Pont, E. I., de Nemours and Company: *See*—
Rayflex Fabrics, Inc.

Eagle Pencil Company, New York, N. Y. Lead pencils, pencil-point protectors, pencil holders, etc. 253,611, Mar. 5, 1929. Republished Dec. 19. Class 37.

Eagle Pencil Company, New York, N. Y. Lead pencils. 317,526, Sept. 25, 1934. Republished Dec. 19. Class 37.

Electric Household Utilities Corporation, by Thor Corporation, Chicago, Ill. Clothes dryer. 361,760, Nov. 1, 1938. Republished Dec. 19. Class 24.

Erwin Cotton Mills Company, Durham, N. C. Denims in the piece. 534,864, Dec. 19; Serial No. 535,510, published Sept. 5, 1950. Class 42.

Eskimo Pie Corporation, Bloomfield, N. J. Powdered vegetable stabilizer. 534,994, Dec. 19; Serial No. 579,908, published Aug. 1, 1950. Class 46.

Euclid Candy Company of California, Inc., San Francisco, Calif. Candy. 279,852, renewed Feb. 3, 1951. O. G. Dec. 19. Class 46.

Everseal Manufacturing Co. Inc., New York, N. Y. Paints, etc. 256,511, May 21, 1929. Republished Dec. 19. Class 16.

Evins, Inc., New York, N. Y. Women's shoes. 534,854, Dec. 19; Serial No. 528,997, published Sept. 5, 1950. Class 39.

Fairfax Bread Company: *See*—
Safeway Stores, Incorporated.

Fall River Herald News Publishing Company, Fall River, Mass. Daily newspaper. 273,467, Aug. 5, 1930. Republished Dec. 19. Class 38.

Field & Stream Publishing Co.: *See*—
Forest and Stream, Inc.

Floret Products Co., New York, N. Y. Effervescent laxative preparation. 360,592, Sept. 20, 1938. Republished Dec. 19. Class 18.

Florin, Philip, Inc., New York, N. Y. Wallets. 535,043, Dec. 19; Serial No. 587,799, published Aug. 15, 1950. Class 3.

Florsheim Shoe Company, The, Chicago, Ill. Men's and women's shoes, sport shoes, and boots. 535,078, Dec. 19; Serial No. 594,266, published Sept. 26, 1950. Class 39.

Forest and Stream, Inc., to Field & Stream Publishing Co., New York, N. Y. Monthly magazine. 275,813, renewed Sept. 30, 1950. O. G. Dec. 19. Class 38.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 274,896–8, renewed Sept. 9, 1950. O. G. Dec. 19. Class 42.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 275,917, renewed Oct. 7, 1950. O. G. Dec. 19. Class 42.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 276,059–66, renewed Oct. 7, 1950. O. G. Dec. 19. Class 42.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 276,191–6, renewed Oct. 14, 1950. O. G. Dec. 19. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Fresh Pak Candy Company, Rock Island, Ill. Candy. 535,102, Dec. 19; Serial No. 557,034. Class 46.

Frigid Midget Corporation, New York, N. Y. Portable electric refrigerators. 535,053, Dec. 19; Serial No. 589,255, published Sept. 19, 1950. Class 31.

Fruit Products Co.: *See*—
Natural Sugars, Inc.

Fruit Products Corporation, assignee: *See*—
Natural Sugars, Inc.

Garceion, Louis, Jr.: *See*—
Lorraine Compounds, Inc.

Garden of the Setting Sun, Inc., Mecca, Calif. Fresh dates and stuffed fresh dates. 534,867, Dec. 19; Serial No. 540,065, published Aug. 8, 1950. Class 46.

General Mills, Inc.: *See*—
Sperry Flour Company.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Rolled oats. 534,855, Dec. 19; Serial No. 529,627, published Aug. 1, 1950. Class 46.

General Portland Cement Company, Chicago, Ill. Masonry cement. 534,890, Dec. 19; Serial No. 555,936, published Aug. 29, 1950. Class 12.

General Refractories Company, Philadelphia, Pa. Refractory bricks and special shapes of clay tile brick. 534,889, Dec. 19; Serial No. 555,869, published Aug. 29, 1950. Class 12.

General Time Corporation: *See*—
Western Clock Mfg. Co., The.

Georgia Marble Company, The, Tate, Ga. Marble cut to size, finished marble, and cut stone. 534,856, Dec. 19; Serial No. 529,631, published Aug. 29, 1950. Class 12.

Girazian, Vaughn, doing business as Vaughn Girazian & Son, Selma, Calif. Fresh deciduous fruits. 534,868, Dec. 19; Serial No. 540,067, published Aug. 1, 1950. Class 46.

Girazian, Vaughn, & Son: *See*—
Girazian, Vaughn.

Glaser, Crandell, Co., Chicago, Ill. Pickles; relishes; chow mein noodles, etc. 534,872, Dec. 19; Serial No. 542,915, published Aug. 1, 1950. Class 46.

Glendale Knitting Corporation, Perry, N. Y. Children's sleeping garments. 535,031, Dec. 19; Serial No. 586,532, published Sept. 12, 1950. Class 39.

Gluv-Gard Manufacturing Company, New York, N. Y., assignor to Gluv-Gard Mfg. Co., Inc. Device for holding gloves. 535,034, Dec. 19; Serial No. 586,692, published Sept. 5, 1950. Class 40.

Gluv-Gard Mfg. Co., Inc., assignee: *See*—
Gluv-Gard Manufacturing Company.

Goodman, A., & Co., Inc., New York, N. Y. Dresses and ladies' suits. 535,044, Dec. 19; Serial No. 587,870, published Sept. 26, 1950. Class 39.

Gossard, H. W., Co., The, to The H. W. Gossard Co., Chicago, Ill. Clothes dryer. 361,760, Nov. 1, 1938. Republished Dec. 19. Class 24.

Gotham Knitting Mills, Inc., New York, N. Y. Knitted sportswear for women. 534,886, Dec. 19; Serial No. 554,566, published Sept. 12, 1950. Class 39.

Grain Candy Bar Manufacturing Company: *See*—
Schoenfeld, Walter.

Granite Looms, Inc., Fall River, Mass. Dishcloths. 534,996, Dec. 19; Serial No. 580,059, published Sept. 12, 1950. Class 42.

Green Bay Paper Products Co., Inc., Green Bay, Wis. Mechanically operated paper towel dispensers. 534,878, Dec. 19; Serial No. 546,388, published Sept. 12, 1950. Class 23.

Griffin Manufacturing Company, Inc., New York, to Griffin Manufacturing Company, Inc., Brooklyn, N. Y. Shoe polishes, shoe cleaners, and leather preservatives. 278,479, renewed Dec. 16, 1950. O. G. Dec. 19. Class 4.

Grower-Shipper Potato Company, Monte Vista, Colo. Potatoes. 534,908, Dec. 19; Serial No. 561,234, published Aug. 1, 1950. Class 46.

Guidera, H. A., & Son, Shafter, Calif. Fresh grapes. 534,997, Dec. 19; Serial No. 580,406, published Aug. 1, 1950. Class 46.

Gulf States Steel Company, Birmingham, Ala., by Republic Steel Corporation, Cleveland, Ohio. Products made from steel and/or iron and/or metal alloys. 275,694, Sept. 30, 1930. Republished Dec. 19. Class 13.

Haig, John & Co. Ltd., Markinch, Scotland. Scotch whiskey. 238,198, Jan. 31, 1928. Canceled Oct. 27, 1950. O. G. Dec. 19. Class 49.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Fire brick. 534,915, Dec. 19; Serial No. 563,333, published Sept. 12, 1950. Class 12.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Fire brick. 534,916, Dec. 19; Serial No. 563,335, published Sept. 12, 1950. Class 12.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Non-hydraulic refractory bonding materials. 534,961, Dec. 19; Serial No. 573,944, published Aug. 29, 1950. Class 12.

Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y., to Higginbotham Bailey Company, Dallas, Tex. Men's and boys' overalls, jumpers, men's and boys' workshirts, etc. 80,917, re-renewed Feb. 14, 1951. O. G. Dec. 19. Class 39.

Hartford Machine Screw Co., Wilson, Conn. Fuel injection pumps. 535,050, Dec. 19; Serial No. 588,490, published Aug. 22, 1950. Class 23.

Hartmann Manufacturing Company, Racine, Wis. Spreaders for the spreading of butter. 535,099, Dec. 19; Serial No. 552,242. Class 23.

Health Spot Shoe Company, Oconomowoc, Wis. Boots and shoes. 535,056, Dec. 19; Serial No. 590,221, published Sept. 5, 1950. Class 39.

Hearst Publishing Company, Inc.: *See*—
Post-Enquirer Publishing Company.

Heitz, Hellmuth E., assignor to Heitz Products Co. Limited, London, England. Concentrated food. 534,924, Dec. 19; Serial No. 565,782, published Aug. 1, 1950. Class 46.

Heitz Products Co. Limited, assignee: *See*—
Heitz, Hellmuth E.

Higginbotham Bailey Company: *See*—
Harris-Lipsitz Company.

Hijos De Saiz De Carlos: *See*—
Ramon Saiz y Carlos.

Hill, C. V., & Company, Inc., Trenton, N. J. Defrosting mechanism. 534,935, Dec. 19; Serial No. 567,696, published Aug. 29, 1950. Class 31.

Hoberg Paper & Fibre Company, Green Bay, Wis., to National Tea Co., Chicago, Ill. Toilet paper, paper towels, and napkins. 278,791, renewed Dec. 30, 1950. O. G. Dec. 19. Class 37.

Hollywood Shoe Polish, Inc., Richmond Hill, N. Y. Shoe polish. 535,019, Dec. 19; Serial No. 584,121, published Sept. 19, 1950. Class 4.

Hudnut, Richard, New York, N. Y. Perfumes. 80,184, re-renewed Nov. 15, 1950. O. G. Dec. 19. Class 51.

Hudnut, Richard, New York, N. Y. Rouge, lipstick, foundation lotion, etc. 534,978, Dec. 19; Serial No. 577,055, published Sept. 12, 1950. Class 51.

Hudson Pulp and Paper Corp., New York, N. Y. Gummed tape, gummed cloth and gummed paper. 534,931, Dec. 19; Serial No. 567,403, published Sept. 19, 1950. Class 5.

Hughes Fawcett, Inc., New York, N. Y. Linen, cotton, and silk threads and yarns. 280,621, renewed Feb. 24, 1951. O. G. Dec. 19. Class 43.

Humblet Laboratories Limited, London, England. Pharmaceutical preparations. 534,974–5, Dec. 19; Serial Nos. 576,806–7, published Sept. 12, 1950. Class 18.

Hunt Foods, Inc., Los Angeles, Calif. Canned peaches. 535,023, Dec. 19; Serial No. 585,283, published Aug. 1, 1950. Class 46.

Hyer, C. H., & Sons, Olathe, Kans. Boots and shoes. 535,009, Dec. 19; Serial No. 582,481, published Aug. 22, 1950. Class 39.

Imperial Knife Company, Inc., Providence, R. I. Pocket knives. 534,926, Dec. 19; Serial No. 565,876, published Sept. 19, 1950. Class 23.

Industrial Metal Protectives, Inc., Wilmington, Del., and Dayton, Ohio. Metal dust-containing compositions in the nature of a paint for coating metals. 534,849, Dec. 19; Serial No. 517,060, published Oct. 19, 1948. Class 16.

Innis, Speiden & Co.: *See*—
Larvacide Service Inc.

International Milling Company, Minneapolis, Minn. Wheat flour. 535,039, Dec. 19; Serial No. 587,580, published Aug. 1, 1950. Class 46.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 534,909, Dec. 19; Serial No. 581,243, published Sept. 26, 1950. Class 39.

Ivano, Inc., Chicago, Ill. Synthetic sponges. 535,006, Dec. 19; Serial No. 581,960, published Aug. 8, 1950. Class 1.

Izsack, Madame Joseph, née Simone Meys, Port-au-Prince, Haiti. Ladies' and misses' shoes. 534,968, Dec. 19; Serial No. 575,862, published Sept. 5, 1950. Class 39.

Jackson Furniture Company, Oakland, Calif. Furniture and furnishings. 440,662, Sept. 14, 1948. Republished Dec. 19. Class 32.

Jackson Furniture Company, Oakland, Calif. Home furniture and furnishings. 444,012, May 30, 1950. Republished Dec. 19. Class 32.

Jaeger Machine Company, The, Columbus, Ohio. Concrete. 275,759, renewed Sept. 30, 1950. O. G. Dec. 19. Class 12.

Jen-Cel-Lite Corporation: *See*—
Jensen Manufacturing Company.

Jensen Manufacturing Company, by Jen-Cel-Lite Corporation, Seattle, Wash. Men's and women's quilted garments. 413,126, Apr. 10, 1945. Republished Dec. 19. Class 39.

Johnson Pecan Co.: *See*—
Johnson, Roy R., Jr.

Johnson, Roy R., Jr., doing business as Johnson Pecan Co., Long Beach, Miss. Pecans. 534,989, Dec. 19; Serial No. 578,451, published Aug. 22, 1950. Class 46.

Joseph & Feiss Co., The, Cleveland, Ohio. Overcoats and topcoats for men and boys. 534,844, Dec. 19; Serial No. 479,079, published Sept. 26, 1950. Class 39.

Kamkap, Inc., New York, N. Y. Outdoor and indoor clothes dryers. 535,122, Dec. 19; Serial No. 599,329. Class 24.

Kaylon Incorporated, New York, N. Y. Women's pajamas, pajama coats, etc. 534,951, Dec. 19; Serial No. 571,976, published Sept. 19, 1950. Class 39.

Ken Corporation, Temple City, Calif. Oil base drilling fluid concentrate. 535,016, Dec. 19; Serial No. 583,697, published Sept. 19, 1950. Class 1.

Kimberly Gem Co., Inc., New York, N. Y. Zircons and articles of jewelry set or mounted with zircons. 394,460, Apr. 7, 1942. Republished Dec. 19. Class 28.

Kirk, C. D., Orlando, Fla. Artificial fish bait. 535,114, Dec. 19; Serial No. 581,423. Class 22.

Kline Brothers Company, New York, N. Y. Ladies', misses', children's sweaters and gloves. 274,921, renewed Sept. 9, 1950. O. G. Dec. 19. Class 39.

Kocolene Company, Inc., Seymour, Ind. Automobile polish and automobile wax and polish. 534,907, Dec. 19; Serial No. 561,026, published Sept. 19, 1950. Class 4.

Korth-Jefferson, Inc., Jefferson, Wis. Bedroom slippers. 535,055, Dec. 19; Serial No. 589,728, published Sept. 5, 1950. Class 39.

Kramer Trenton Company, Trenton, N. J. Refrigerating apparatus. 534,945, Dec. 19; Serial No. 570,618, published Sept. 12, 1950. Class 31.

Kreider, A. S., Shoe Manufacturing Company, Elizabethtown, Pa. Misses', girls', boys' men's, women's and children's shoes. 535,063, Dec. 19; Serial No. 591,783, published Sept. 5, 1950. Class 39.

Larvacide Service Inc., by Innis, Speiden & Co., New York, N. Y. Insecticides. 285,047, July 14, 1931. Republished Dec. 19. Class 6.

La Valliere Company, The, to The Specialty Products Company, New Orleans, La. Talcum powders, face powders, rouges, etc. 275,225, renewed Sept. 16, 1950. O. G. Dec. 19. Class 51.

Lawrence Products Company, Inc., Attalla, Ala. Cotton rugs. 534,966, Dec. 19; Serial No. 575,473, published Sept. 12, 1950. Class 42.

Lees, James, and Sons Company, Bridgeport, Pa. Yarns. 534,900, Dec. 19; Serial No. 558,896, published Sept. 12, 1950. Class 43.

Lever Brothers Company, assignee: *See*—
Ayer, Harriet Hubbard, Inc.

Levine, Arthur, Inc., New York, N. Y. Ladies' and misses' coats and suits. 534,894, Dec. 19; Serial No. 557,613, published Sept. 5, 1950. Class 39.

Levy Bros. & Adler Rochester, Inc., Rochester, N. Y. Men's top coats and overcoats. 535,066, Dec. 19; Serial No. 592,641, published Sept. 5, 1950. Class 39.

Lewin Road Sweepers Limited, West Bromwich, England. Power driven vehicles. 444,364, Dec. 19; Serial No. 503,256. Class 19.

L'Hermitage-Elk Grove, Elk Grove, Calif. Wines. 382,766, Nov. 12, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 47.

L'Hermitage-Elk Grove, Elk Grove, Calif. Wines. 383,322, Dec. 3, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 47.

Liberty Frock Company, Inc., Kansas City, Mo. Ladies' dresses and sportswear. 535,045, Dec. 19; Serial No. 587,877, published Sept. 26, 1950. Class 39.

Lincoln Fabrics, Co., Inc., New York, N. Y. Piece goods. 534,960, Dec. 19; Serial No. 573,560, published Sept. 12, 1950. Class 42.

Lion Specialty Co., Chicago, Ill. Candies; and peanut products. 534,859, Dec. 19; Serial No. 531,339, published Aug. 1, 1950. Class 46.

Loew's Incorporated: *See*—
Metro-Goldwyn-Mayer Corporation.

Lorraine Compounds, Inc., by change of name Tern, Incorporated, to L. Garcelon, Jr., Boston, Mass. Wool washing detergent. 502,631, Oct. 5, 1948. New certificate. O. G. Dec. 19. Class 4.

Los Angeles Soap Company, Los Angeles, Calif. Cleaning compound. 534,857, Dec. 19; Serial No. 530,745, published Sept. 19, 1950. Class 52.

Love, William F., doing business as Mercury Chemical Co., Corona, N. Y. Laundry bleaching compound. 534,942, Dec. 19; Serial No. 569,077, published Sept. 12, 1950. Class 52.

Lupo, Joseph, doing business under the name and style of Associated Engineering Company, New York, N. Y. Cutting, grinding, tumbling, and polishing compounds. 534,883, Dec. 19; Serial No. 551,643, published Sept. 12, 1950. Class 4.

Lupo, Joseph, doing business under the name and style of Lupo Research Laboratories, Tuckahoe, N. Y. Abrasive burnishing and polishing compounds. 535,021, Dec. 19; Serial No. 584,583, published Sept. 12, 1950. Class 4.

Lupo Research Laboratories: *See*—
Lupo, Joseph.

Lycoming Hosiery Company: *See*—
Burd, Samuel I.

M & R Dietetic Laboratories Inc., Columbus, Ohio. Sterilized cow's milk cream. 535,014, Dec. 19; Serial No. 583,351, published Aug. 1, 1950. Class 46.

Manning Mfg. Co., Rutland, Vt. Lubricating oil and gasoline. 373,746, Dec. 19, 1939. Canceled Oct. 25, 1950. O. G. Dec. 19. Class 15.

Mar-Kay Company, The, Dallas, Tex. Misses' and juniors' coats and suits. 534,887, Dec. 19; Serial No. 554,681, published Sept. 26, 1950. Class 39.

Martin Corporation: *See*—
Martin Dyeing and Finishing Co.

Martin Dyeing and Finishing Co., to Martin Corporation, Bridgeton, N. J. Cotton piece goods. 280,445, renewed Feb. 17, 1951. O. G. Dec. 19. Class 42.

Masland, C. H., & Sons, Carlisle, Pa. Textile carpets and rugs. 534,999, Dec. 19; Serial No. 580,610, published Sept. 5, 1950. Class 42.

May Department Stores Company, The, New York, N. Y., and St. Louis, Mo. Men's union suits. 535,024, Dec. 19; Serial No. 585,383, published Sept. 5, 1950. Class 39.

McAnany, George T., Vista, Calif. Abrasive scrubbing mitts. 535,007, Dec. 19; Serial No. 582,138, published Sept. 12, 1950. Class 4.

McCrory Stores Corporation, New York, N. Y. Ladies' hosiery. 534,938, Dec. 19; Serial No. 568,746, published Sept. 19, 1950. Class 39.

McCrory Stores Corporation, New York, N. Y. Crib sheets and crib pillow cases. 534,939, Dec. 19; Serial No. 568,747, published Sept. 12, 1950. Class 42.

McCrory Stores Corporation, New York, N. Y. Diapers. 534,940, Dec. 19; Serial No. 568,965, published Sept. 19, 1950. Class 39.

McGraw Electric Company: *See*—
Waters-Genter Co.

McGraw, F. H., and Company, Hartford, Conn. Construction engineering. 535,086, Dec. 19; Serial No. 569,924, published Sept. 12, 1950. Class 103.

Meinecke & Company, New York, N. Y. Irrigating and aspirating syringes. 534,877, Dec. 19; Serial No. 545,020, published Aug. 29, 1950. Class 44.

Mercantile Stores Company, Inc., Wilmington, Del. Piece goods, etc. 534,976, Dec. 19; Serial No. 576,817, published Sept. 5, 1950. Class 42.

Mercury Chemical Co.: *See*—
Love, William F.

Merit Packing Company, Salinas, Calif., assignee of Lewis A. Terven Company. Fresh carrots. 534,888, Dec. 19; Serial No. 555,024, published Aug. 1, 1950. Class 46.

Metro-Goldwyn-Mayer Corporation, Los Angeles, to Loew's Incorporated, Culver City, Calif. Printed motion-picture films. 277,427, renewed Nov. 11, 1950. O. G. Dec. 19. Class 26.

Metropolitan Brick, Inc.: *See*—
Metropolitan Paving Brick Company, The.

Metropolitan Paving Brick Company, The, Canton and Minerva, Ohio, and Bessemer, Pa., to Metropolitan Brick, Inc., Canton, Ohio. Building and paving bricks and blocks. 275,556–7, renewed Sept. 23, 1950. O. G. Dec. 19. Class 12.

Midy Laboratories, (Inc.), The, New York, N. Y., assignor to Societe D'Etudes, de Recherches et D'Applications Scientifiques et Medicales, Paris, France. Preparations for the treatment of gravel, stone, and other manifestations of the uric-acid diathesis, etc. 534,860, Dec. 19; Serial No. 531,695, published Dec. 7, 1948. Class 6.

Miller Company, The, Meriden, Conn. Electric-lighting fixtures, table, floor and bridge lamps and parts thereof. 277,344, renewed Nov. 11, 1950. O. G. Dec. 19. Class 21.

Minnesota Macaroni Company, St. Paul, Minn. Macaroni, spaghetti, and egg noodles, etc. 535,003, Dec. 19; Serial No. 581,140, published Aug. 1, 1950. Class 46.

Mitchell, Joseph M., Philadelphia, Pa. Appraisals of law libraries; binding of law books; printing of legal briefs, etc. 535,087, Dec. 19; Serial No. 570,625, published Sept. 26, 1950. Class 101.

Modglin Company, Inc., Los Angeles, Calif. Plastic bristles. 534,921, Dec. 19; Serial No. 565,072, published Sept. 19, 1950. Class 1.

Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Textile, woven, woolen rugs and carpets. 535,071, Dec. 19; Serial No. 593,431, published Sept. 12, 1950. Class 42.

Morton Gregory Corporation, Detroit, Mich. Electric arc welding metal studs. 534,959, Dec. 19; Serial No. 573,499, published Sept. 19, 1950. Class 13.

Morton Salt Company, Chicago, Ill. Salt. 534,869, Dec. 19; Serial No. 541,164, published Aug. 8, 1950. Class 46.

Mosaic Tile Company, The, Zanesville, Ohio. Floor, wall and ceiling tiles. 535,040–1, Dec. 19; Serial Nos. 587,888–9, published Aug. 29, 1950. Class 12.

Mullins Manufacturing Corporation, Salem, Ohio. Sheet-metal stampings. 274,830, renewed Sept. 9, 1950. O. G Dec. 19. Class 14.

Mullins Manufacturing Corporation, Salem, Ohio. Metal stampings. 275,232, renewed Sept. 16, 1950. O. G. Dec. 19. Class 14.

Mutual Dealers Wholesale Inc., St. Paul, Minn. 534,893, Dec. 19, Chemical weed killer, Serial No. 557,373, published July 11, 1950, Class 6; House paint, house trim paint, barn paint, etc., Serial No. 557,374, published Mar. 21, 1950, Class 16; Automotive batteries, farm light batteries, spark plugs, etc., Serial No. 557,376, published Feb. 28, 1950, Class 21; Oil filters, Serial No. 557,377, published Apr. 11, 1950, Class 31; Vehicle brake linings, canvas and rubber belts and belting, Serial No. 557,375, published Nov. 22, 1949, Class 35; (Consolidated certificate, Classes 6, 16, 21, 31, and 35).

National Metal Edge Box Company, Philadelphia, Pa. Metal stays. 534,598, Dec. 19; Serial No. 558,581, published Sept. 26, 1950. Class 13.

National Paper Products Company, to Comfort Paper Corporation, San Francisco, Calif. Toilet paper. 279,461, renewed Jan. 13, 1951. O. G. Dec. 19. Class 37.

National Starch Products Inc., New York, N. Y. Processed dry starch refined from waxy maize for use in the preparation of food products. 535,111, Dec. 19; Serial No. 574,526. Class 46.

National Tea Co.: *See*—
Hoberg Paper & Fibre Company.

Natural Sugars, Inc., doing business as Fruit Products Co., assignor to Fruit Products Corporation, New York, N. Y. Maraschino cherries. 534,943, Dec. 19; Serial No. 569,285, published Aug. 1, 1950. Class 46.

Naughton, J., Ltd., Lisbon, Portugal. Sardines, tunny fish and anchovies. 534,873, Dec. 19; Serial No. 542,963, published Aug. 8, 1950. Class 46.

Neustadter Brothers, to Stettheimer Co., San Francisco, Calif. Hosiery. 278,506, renewed Dec. 23, 1950. O. G. Dec. 19. Class 39.

Norris, Inc., Atlanta, Ga. Candy. 534,905, Dec. 19; Serial No. 560,650, published July 25, 1950. Class 46.

Ohio Hydrate & Supply Company, The, Woodville, Ohio. Lime in powdered form for building and construction purposes. 534,998, Dec. 19; Serial No. 580,558, published Aug. 15, 1950. Class 12.

Oliver United Filters Incorporated, Oakland, Calif. Industrial rotary drum filters. 534,973, Dec. 19; Serial No. 576,551, published Sept. 19, 1950. Class 31.

Oneida Community Limited, to Oneida Ltd., Oneida, N. Y. Silver-plated flat ware, hollow ware, and tableware. 76,518, re-renewed Jan. 25, 1950. O. G. Dec. 19. Class 28.

Oneida Ltd.: *See*—
Oneida Community Limited.

Oswego Falls Corporation, Fulton, N. Y. Machines for fabricating, filling and sealing non-metallic cartons. 534,929, Dec. 19; Serial No. 566,539, published Sept. 19, 1950. Class 23.

Owens-Illinois Glass Company, Toledo, Ohio. Closures for bottles and jars. 534,925, Dec. 19; Serial No. 565,807, published Aug. 15, 1950. Class 50.

Owens-Illinois Glass Company, Toledo, Ohio. Glass vials. 535,037, Dec. 19; Serial No. 587,046, published Aug. 29, 1950. Class 33.

Peerless Yeast Co.: *See*—
Acme Breweries.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Self-hardening organic resin composition. 534,881, Dec. 19; Serial No. 549,655, published Sept. 12, 1950. Class 12.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. 534,922–3, Dec. 19; Serial Nos. 565,448–9, published Sept. 19, 1950. Class 6.

Permutit Company, The, New York, N. Y. Apparatus for purifying, filtering, and softening water. 535,058–9, Dec. 19; Serial Nos. 590,637–8, published Sept. 19, 1950. Class 31.

Pettinos, George F., Philadelphia, Pa. Pulverizing machines. 279,913, renewed Feb. 3, 1951. O. G. Dec. 19. Class 23.

Phoenix Manufacturing Company, Joliet, Ill., to Phoenix Manufacturing Company, Joliet, Ill., and Catasauqua, Pa. Rubber goods. 274,724, renewed Sept. 2, 1950. O. G. Dec. 19. Class 35.

Pik-Nik Food Products Co.: *See*—
Poole, Albert J.

Pille Bros., Inc., Denver, Colo., by Price Battery Corporation, Hamburg, Pa. Storage batteries and parts thereof. 271,811, June 17, 1930. Republished Dec. 19. Class 21.

Pinelli, Anthony R., Chicago, Ill. Olive oil. 535,113, Dec. 19; Serial No. 579,353. Class 46.

Polk Miller Products Corporation, Richmond, Va. Tick killer in powder form. 535,092, Dec. 19; Serial No. 524,344. Class 18.

Poole, Albert J., doing business as Pik-Nik Food Products Co., San Jose, Calif. Shoe string potatoes. 535,101, Dec. 19; Serial No. 555,627. Class 46.

Post-Enquirer Publishing Company, by Hearst Publishing Company, Inc., Oakland, Calif. Vignette or masthead on a daily newspaper. 289,577, Dec. 1, 1931. Republished Dec. 19. Class 38.

Potato Products Corp.: *See*—
Potato Products Corporation.

Potato Products Corporation, doing business under the style names of Potato Sales Co. and Potato Products Corp., Grand Forks, N. Dak. Potatoes, potato chips and potato flour. 534,866, Dec. 19; Serial No. 539,435, published Aug. 8, 1950. Class 46.

Potato Sales Co.: *See*—
Potato Products Corporation.

Poultry Producers of Central California, San Francisco, Calif. Fresh eggs. 535,097, Dec. 19; Serial No. 548,606. Class 46.

Price Battery Corporation: *See*—
Pille Bros., Inc.

Pure Oil Company, The, Chicago, Ill. Gasoline and other motor fuel oils, lubricating oil and grease. 534,851, Dec. 19; Serial No. 527,354, published Dec. 6, 1949. Class 15.

Pure Oil Company, The, Chicago, Ill. Services rendered to automobiles, trucks and other automotive vehicles. 535,081, Dec. 19; Serial No. 527,991, published Aug. 29, 1950. Class 103.

Pur-O-Zone Chemical Company: *See*—
Vincent, V. Jack.

Quaker Oats Company, The: *See*—
Chappel Bros., Inc.

Quaker Silver Company, Attleboro, by Quaker Silver Co., Inc., North Attleboro, Mass. Salt and pepper shakers, candlesticks, vases, etc. 271,180, May 27, 1930. Republished Dec. 19. Classes 28 and 44.

Quaker Silver Co., Inc.: *See*—
Quaker Silver Company.

Quam-Nichols Company, Chicago, Ill. Loudspeakers. 534,863, Dec. 19; Serial No. 534,470, published Sept. 5, 1950. Class 21.

Racing Teal Ranch: *See*—
Cliff, A. B.

Ramon Saiz y Carlos, to Hijos De Saiz De Carlos, Madrid, Spain. Remedies for diseases of the stomach and intestines. 35,634, re-renewed Dec. 25, 1950. O. G. Dec. 19. Class 18.

Raya, Julian J., doing business as Ryaco Products of Hollywood, Hollywood, Calif. Brush cleaners. 534,876, Dec. 19; Serial No. 543,748, published Sept. 19, 1950. Class 23.

Rayflex Fabrics, Inc., New York, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Woven elastic fabrics in the piece. 535,073–4, Dec. 19; Serial Nos. 593,500–1, published Sept. 12, 1950. Class 42.

Rees, Fallis F., doing business as Brick Inc., Denver, Colo. Brick, tile, and building blocks, etc. 534,977, Dec. 19; Serial No. 576,984, published Sept. 26, 1950. Class 12.

Reeves Parvin & Co., Philadelphia, Pa. Coffee, tea, canned evaporated milk, etc. 534,850, Dec. 19; Serial No. 525,401, published Aug. 1, 1950. Class 46.

Regal Typewriter Company, Inc., New York, N. Y. Typewriting machines and parts thereof. 274,548, Sept. 2, 1930. Republished Dec. 19. Class 23.

Republic Steel Corporation: *See*—
Gulf States Steel Company.

Resistol Hats, Inc., assignee: *See*—
Byer-Rolnick Company.

Revere Knitting Mills, Inc., doing business as Bryant Knitting Mills, Malden, Mass. Knitted sweaters, knitted and woven jackets, and sport coats. 534,870, Dec. 19; Serial No. 541,341, published Sept. 19, 1950. Class 39.

Rice-O'Neill Shoe Company, St. Louis, Mo. Shoes. 535,068, Dec. 19; Serial No. 593,141, published Sept. 5, 1950. Class 39.

Riegel Paper Corporation, New York, N. Y. Wrapping paper, bristol board, cover paper, etc. 278,802, Dec. 30, 1930. Republished Dec. 19. Class 37.

Riverside Mills Co.: *See*—
Ward, James B.

Rodriguez y Compania, Habana, Cuba. Rice. 534,919, Dec. 19; Serial No. 564,468, published Aug. 1, 1950. Class 46.

Rogers Sportwear Co., Inc., Brooklyn, N. Y. Ladies' outer sportwear. 535,062, Dec. 19; Serial No. 591,515, published Sept. 26, 1950. Class 39.

Roper, Nelson, Exeter, Calif. Fresh deciduous fruits and fresh grapes. 534,933, Dec. 19; Serial No. 567,539, published Aug. 1, 1950. Class 46.

Rosenthal & Kaplan, New York, N. Y. Finger rings. 441,884, Jan. 18, 1949. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 28.

Ross, Howard L., doing business as Howard L. Ross Associates, New York, N. Y. Plate or mat for hot plates. 534,891, Dec. 19; Serial No. 556,600, published Aug. 15, 1950. Class 50.

Ross, Howard L., Associates: *See*—
Ross, Howard L.

Ryaco Products of Hollywood: *See*—
Raya, Julian J.

S-B Manufacturing Company, Milwaukee, Wis. Fish scaling tool. 535,025, Dec. 19; Serial No. 585,480, published Aug. 29, 1950. Class 23.

S. F. Appliances, Limited, Ridgefield, N. J. Gasoline and kerosene burning sad irons. 535,103, Dec. 19; Serial No. 557,160. Class 24.

Safety First Shoe Company: *See*—
Williams, Arthur A.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and elsewhere. Bakery goods. 534,988, Dec. 19; Serial No. 578,167, published Aug. 1, 1950. Class 46.

Sapolin Paints Inc., New York, N. Y. Flat oil paints. 534,917, Dec. 19; Serial No. 563,548, published Sept. 5, 1950. Class 16.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's princess slips, nightgowns, pajamas, etc. 534,901, Dec. 19; Serial No. 558,931, published Sept. 26, 1950. Class 39.

Schoenfeld, Walter, doing business as Grain Candy Bar Manufacturing Company, St. Paul, Minn. Candy bars. 403,944, Oct. 26, 1943. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 46.

Scientific Supply Co., Inc., Denver, Colo. Floor wax. 535,004, Dec. 19; Serial No. 581,360, published Sept. 19, 1950. Class 4.

Scott & Fetzer Company, The, Cleveland, Ohio. Compressed air operated foam producing apparatus. 534,937, Dec. 19; Serial No. 568,463, published Aug. 29, 1950. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Mechanical refrigerator units. 534,903, Dec. 19; Serial No. 559,334, published Aug. 15, 1950. Class 31.

Sears, Roebuck and Co., Chicago, Ill. Textile rugs and carpeting. 535,000, Dec. 19; Serial No. 581,025, published Sept. 12, 1950. Class 42.

Selby Shoe Company, The, Portsmouth, Ohio. Shoes. 535,028, Dec. 19; Serial No. 586,226, published Sept. 26, 1950. Class 39.

Shlansky, Louis, Corp.: *See*—
Shlansky, Louis, Corporation.

Shlansky, Louis, Corporation, also known as Louis Shlansky Corp., New York, N. Y. Juniors' and misses' coats and suits. 535,048, Dec. 19; Serial No. 588,325, published Sept. 5, 1950. Class 39.

Sigma Alpha Epsilon Fraternity, Evanston, Ill. Fraternity badges and lapel buttons. 277,162, Nov. 11, 1930. Republished Dec. 19. Class 28.

Silberstein, Sam, Corp., New York, N. Y. Misses' suits and coats. 535,075, Dec. 19; Serial No. 593,618, published Sept. 19, 1950. Class 39.

Silberstein, Sam, Corp., New York, N. Y. Misses' suits and coats. 535,076, Dec. 19; Serial No. 593,619, published Sept. 26, 1950. Class 39.

Silten Ltd., London and Hatfield, England. Inhalers and electric breast pumps. 534,971, Dec. 19; Serial No. 576,233, published Sept. 19, 1950. Class 44.

Simmons, C. F., Medicine Co., Incorporated, to Standard Laboratories, Inc., New York, N. Y. Laxative medicine. 279,982, renewed Feb. 10, 1951. O. G. Dec. 19. Class 18.

Simonds Saw and Steel Company, Fitchburg, Mass. Saws and machine knives. 534,987, Dec. 19; Serial No. 578,053, published Sept. 12, 1950. Class 23.

Simplot, J. R., Company, Caldwell, Idaho. Food products. 535,091, Dec. 19; Serial No. 519,989. Class 46.

Smooth-On Manufacturing Company, Jersey City, N. J. Hydraulic iron cement. 349,728, Aug. 31, 1937. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 12.

Societe D'Etudes De Recherches Et D' Applications Scientifiques Et Medicales, assignee: *See*—
Midy Laboratories (Inc.), The.

Southern Management Engineers, Atlanta, Ga. Management engineering service. 535,088, Dec. 19; Serial No. 576,596, published Sept. 12, 1950. Class 101.

Specialty Products Company, The: *See*—
La Valliere Company, The.

Sperry Flour Company, San Francisco, Calif., to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Poultry food. 275,833, renewed Sept. 30, 1950. O. G. Dec. 19. Class 46.

Sperry Flour Company, San Francisco, Calif., to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Poultry food. 275,839, renewed Sept. 30, 1950. O. G. Dec. 19. Class 46.

Sperry Flour Company, San Francisco, Calif., to General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Poultry food. 275,841, renewed Sept. 30, 1950. O. G. Dec. 19. Class 46.

Spiegel, Inc., Chicago, Ill. Portable ice boxes. 535,049, Dec. 19; Serial No. 588,400, published Sept. 12, 1950. Class 31.

Spooner Dryer & Engineering Company Limited, The, Ilkley, England. Tentering machines, carbonising machines, dyeing machines, etc. 535,115, Dec. 19; Serial No. 581,460. Class 23.

Staley, A. E., Manufacturing Company, Decatur, Ill. Soy sauce. 534,906, Dec. 19; Serial No. 560,664, published Aug. 1, 1950. Class 46.

Staley Milling Company, Kansas City, Mo. Poultry feeds. 535,010, Dec. 19; Serial No. 582,501, published Aug. 1, 1950. Class 46.

Standard Laboratories, Inc.: *See*—
Simmons, C. F., Medicine Co., Incorporated.
Waterbury Chemical Company, Inc.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Services to the dry cleaning industry. 535,082, Dec. 19; Serial No. 542,792, published Sept. 12, 1950. Class 100.

Standard Pressed Steel Co., Jenkintown, Pa. Self-locking nuts. 534,954, Dec. 19; Serial No. 572,597, published Sept. 19, 1950. Class 13.

Stark-Ruth Printing and Publishing Company, San Francisco, Calif., to F. W. Dodge Corporation, New York, N. Y. Daily trade publication. 275,811, renewed Sept. 30, 1950. O. G. Dec. 19. Class 38.

Stayton Canning Co. Co-Operative, Stayton, Oreg. Canned vegetables. 534,865, Dec. 19; Serial No. 536,304, published Aug. 1, 1950. Class 46.

Stettheimer Co.: *See*—
Neustadter Brothers.

Stoddard Products Company, Incorporated, Woodbridge and New Haven, Conn. Portable reflecting highway warning signs. 535,012, Dec. 19; Serial No. 582,657, published July 25, 1950. Class 50.

Stoeger Arms Corporation, New York, N. Y. Rifles. 535,120, Dec. 19; Serial No. 589,478. Class 9.

Stonhard Company: *See*—
Berman, Benjamin.

Superior Piston Ring Co., Inc., Detroit, Mich. Piston rings. 381,480, Sept. 24, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19. Class 35.

Surgical Appliance Industries Inc., Cincinnati, Ohio. Surgical pads and truss pads. 535,020, Dec. 19; Serial No. 584,255, published Sept. 19, 1950. Class 44.

Swartz, Sophia, New York, N. Y. Soap. 535,015, Dec. 19; Serial No. 583,415, published Aug. 29, 1950. Class 52.

Swift & Company, Chicago, Ill. Flexible glue. 535,032–3, Dec. 19; Serial Nos. 586,664–5, published Sept. 12, 1950. Class 5.

Sylvan, Joseph, doing business as Compo-Miracle Products Co., Berkley, Mich. Metal windows, metal screens, metal doors, etc. 534,962, Dec. 19; Serial No. 573,992, published Apr. 4, 1950. Class 12.

Tailored Woman, Inc., The, New York, N. Y. Wearing apparel. 175,382, Nov. 6, 1923. Republished Dec. 19. Class 39.

Tailored Woman, Inc., The, New York, N. Y. Women's and misses' coats, suits, dresses, etc. 381,680, Oct. 1, 1940. Republished Dec. 19, 1950. Class 39.

Tailored Woman, Inc., The, New York, N. Y. Women's and misses' wearing apparel. 422,760, Aug. 13, 1946. Republished Dec. 19, 1950. Class 39.

Tanbro Fabrics Corp, New York, N. Y. Rayon, cotton, linen, wool, nylon and silk goods in the piece. 534,983, Dec. 19; Serial No. 577,753, published Sept. 5, 1950. Class 42.

Tanbro Fabrics Corp., New York, N. Y. Rayon, cotton, linen, etc., textile fabrics. 535,001, Dec. 19; Serial No. 581,055, published Sept. 12, 1950. Class 42.

Telecon Corporation, New York, N. Y. Rental of washing machines in self-service laundries, etc. 535,084, Dec. 19; Serial No. 558,179, published Sept. 12, 1950. Class 103.

Tern, Incorporated: *See*—
Lorraine Compounds, Inc.

Terven, Lewis A., Company: *See*—
Merit Packing Company.

Thompson Horticultural Chemicals Corporation, Los Angeles, Calif. Horticultural compound. 535,116, Dec. 19; Serial No. 581,844. Class 6.

Thor Corporation: *See*—
Electric Household Utilities Corporation.

Timely Clothes, Inc., Rochester, N. Y. Men's and young men's suits. 535,067, Dec. 19; Serial No. 592,727, published Sept. 5, 1950. Class 39.

Tootal Broadhurst Lee Co. Limited, Manchester, England. Piece goods. 534,979, Dec. 19; Serial No. 577,081, published Sept. 12, 1950. Class 42.

Tootal Broadhurst Lee Co. Limited, Manchester, England. Textile piece goods. 534,980, Dec. 19; Serial No. 577,082, published Sept. 12, 1950. Class 42.

Tourangeau Ink Co., Minneapolis, Minn. Printer's inks. 534,941, Dec. 19; Serial No. 569,024, published Sept. 12, 1950. Class 11.

Trimfoot Company, Farmington, Mo. Cushions which helps to prevent run-over heels. 534,861, Dec. 19; Serial No. 533,421, published Sept. 26, 1950. Class 39.

Truax-Traer Coal Company, Chicago, Ill. Lignite coal. 534,910, Dec. 19; Serial No. 561,353, published Sept. 12, 1950. Class 1.

Turner Jones Company, Inc., New York, N. Y. Corduroy fabrics. 535,005, Dec. 19; Serial No. 581,917, published Sept. 12, 1950. Class 42.

Tyler Products, Inc., North Hollywood, Calif. Sandwiches. 535,109, Dec. 19; Serial No. 573,856. Class 46.

United Conveyor Corporation, Chicago, Ill. Combination pneumatic and sluice conveyors and conveying systems. 280,937, renewed Mar. 3, 1951. O. G. Dec. 19. Class 23.

United Conveyor Corporation, Chicago, Ill. Combination pneumatic and sluice conveyors and conveying systems. 280,981, renewed Mar. 3, 1951. O. G. Dec. 19. Class 23.

United States Catheter & Instrument Corp., Glens Falls, N. Y. Ureteral and urethral catheters, endotracheal catheters, etc. 535,061, Dec. 19; Serial No. 590,768, published Sept. 19, 1950. Class 44.

United States Radium Corporation, New York, N. Y. X-ray, fluoroscopic, intensifying and photofluorographic screens. 535,022, Dec. 19; Serial No. 584,846, published Sept. 19, 1950. Class 44.

Universal Enterprises, Los Angeles, Calif. Tents. 534,927, Dec. 19; Serial No. 566,053, published Aug. 29, 1950. Class 50.

Universal Pictures Company, Inc.: *See*—
Universal Pictures Corporation.

Universal Pictures Corporation, to Universal Pictures Company, Inc., New York, N. Y. Series of animated motion-picture cartoons. 250,300, renewed Dec. 4, 1948. O. G. Dec. 19. Class 26.

VCA Laboratories, Newark, N. J. Vitamin-containing preparations. 534,904, Dec. 19; Serial No. 560,237, published July 25, 1950. Class 18.

Valco Manufacturing Company, Chicago, Ill. Hawaiian and Spanish amplifying and electric guitars, and guitar accessories. 444,363, Dec. 19; Serial No. 513,280, published Jan. 25, 1949. Class 36.

Vanetta Velvet Co., Inc., New York, N. Y. Pile fabrics. 281,221, Mar. 10, 1931. Canceled Oct. 25, 1950. O. G. Dec. 19. Class 42.

Vantona Textiles Limited, Manchester, England. Antimacassars, bed coverlets, bed sheeting, etc. 534,981, Dec. 19; Serial No. 577,240, published Sept. 12, 1950. Class 42.

Vibro-Plus Corp, New York, N. Y. Artificial stone; portland cement, magnesia cement; etc. 534,895, Dec. 19; Serial No. 557,792, published Aug. 15, 1950. Class 12.

Vibro-plus Corp., New York, N. Y. Artificial stone; portland cement, magnesia cement; etc. 534,896, Dec. 19; Serial No. 557,794, published Aug. 15, 1950. Class 12.

Villarreal, Elizabeth, Chicago, Ill. Scalp oil and hair reconditioner. 534,969, Dec. 19; Serial No. 576,089, published Aug. 29, 1950. Class 51.

Vincent, V. Jack, doing business as Pur-O-Zone Chemical Company, Lawrence, Kans. Liquid wax. 535,008, Dec. 19; Serial No. 582,331, published Sept. 19, 1950. Class 4.

Viscol Company, The, Stamford, Conn. Unfinished leather soles. 535,013, Dec. 19; Serial No. 583,303, published Sept. 26, 1950. Class 39.

Vitamins, Limited, London, England. Vitamin-rich cereal food. 534,970, Dec. 19; Serial No. 576,179, published Aug. 1, 1950. Class 46.

Volkman, C. M., & Co., San Francisco, Calif. Seeds. 534,952, Dec. 19; Serial No. 572,142, published Sept. 19, 1950. Class 1.

WPIX, Inc., New York, N. Y. Television news program broadcasting. 535,085, Dec. 19; Serial No. 563,299, published Sept. 19, 1950. Class 104.

Wamsutta Mills, New Bedford, Mass. Cotton piece goods. 534,948, Dec. 19; Serial No. 571,372, published Sept. 12, 1950. Class 42.

Ward, James B., doing business under the firm and style name of Riverside Mills Co., Nashville, Tenn. Poultry feeds; and stock feed. 535,093, Dec. 19; Serial No. 533,087. Class 46.

Waterbury Chemical Company, Inc., to Standard Laboratories, Inc., New York, N. Y. Medicines and pharmaceutical preparations. 278,721, renewed Dec. 30, 1950. O. G. Dec. 19. Class 18.

Waters-Genter Co., Minneapolis, Minn., to McGraw Electric Company, Elgin, Ill. Automatic electric waffle irons. 276,784, renewed Oct. 28, 1950. O. G. Dec. 19. Class 21.

Weaver Brothers, Lubbock, Tex. Field seed. 535,030, Dec. 19; Serial No. 586,333, published Sept. 19, 1950. Class 1.

Webb Products Company, San Bernadino, Calif. Putties. 534,885, Dec. 19; Serial No. 553,325, published Aug. 29, 1950. Class 12.

Western Clock Mfg. Co., The, Peru, Ill., by General Time Corporation, New York, N. Y. Clocks and watches. 80,503, Dec. 27, 1910. Republished Dec. 19. Class 27.

Westinghouse Radio Stations, Inc., Indianapolis, Ind., and Philadelphia, Pa. Radio program broadcasting services. 535,083, Dec. 19; Serial No. 557,809, published Sept. 19, 1950. Class 104.

White, J. J., doing business as J. J. White Products Company, Cleveland, Ohio. Treated textile fabrics. 535,052, Dec. 19; Serial No. 589,181, published Aug. 15, 1950. Class 42.

White, J. J., Products Company: *See*—
White, J. J.

Wigder Manufacturing Co., The, Newark, N. J. Manicure implements. 534,880, Dec. 19; Serial No. 548,772, published Sept. 19, 1950. Class 44.

Wilcoh Company, The, Moorhead, Minn. Seed potatoes. 534,920, Dec. 19; Serial No. 564,671, published Sept. 12, 1950. Class 1.

Williams, Arthur A., doing business under the name and style of Safety First Shoe Company, Holliston, Mass. Boots and shoes. 535,069, Dec. 19; Serial No. 593,198, published Sept. 5, 1950. Class 39.

Williams, J. H., & Co., Brooklyn, to J. H. Williams & Co., Buffalo, N. Y. Metal forgings. 80,202, re-renewed Nov. 15, 1950. O. G. Dec. 19. Class 14.

Williams, J. H., & Co., Buffalo, N. Y. Wrenches, wrench sets, wrench sockets, and tool handles. 277,308, renewed Nov. 11, 1950. O. G. Dec. 19. Class 23.

Wilson, Frank M., Company: *See*—
California Co-operative Producers.

Wimelbacher & Rice, to Wimelbacher & Rice Inc., New York, N. Y. Leather and fabric gloves. 280,519, renewed Feb. 17, 1951. O. G. Dec. 19. Class 39.

Wimelbacher & Rice Inc.: *See*—
Wimelbacher & Rice.

Windsor Wax Co. Inc., Hoboken, N. J. Wax compositions. 196,190, Mar. 10, 1925. Republished Dec. 19. Class 16.

Woodward Machine Company: *See*—
Woodward, William H.

Woodward, William H., doing business as Woodward Machine Company, Detroit, Mich. Industrial electric lighting units, adjustable electric lamp brackets, etc. 535,046, Dec. 19; Serial No. 587,985, published Sept. 5, 1950. Class 21.

Yeast-Ayd Feeds: *See*—
Adam, Bob.

Yeast Feed Distributors: *See*—
Adam, Bob.

Yeomans Brothers Company, Chicago, Ill. Ejectors, sewage ejectors, pneumatic valves, etc. 534,858, Dec. 19; Serial No. 530,793, published Sept. 19, 1950. Class 23.

Youngs Rubber Corporation, New York, N. Y. Prophylactic membranous articles. 535,027, Dec. 19; Serial No. 585,817, published Aug. 15, 1950. Class 44.

Zurn, J. A., Mfg. Co., Erie, Pa. Plumbing and drainage products. 534,984, Dec. 19; Serial No. 578,001, published Sept. 12, 1950. Class 13.

Zurn, J. A., Mfg. Co., Erie, Pa. General plumbing fittings and assemblies and drainage products. 534,985, Dec. 19; Serial No. 578,002, published Sept. 19, 1950. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chamois skins. S. M. Arnold, Inc. 534,875, Dec. 19; Serial No. 543,403, published Sept. 19, 1950.

Coal. The Capitol Fuel Company. 534,928, Dec. 19; Serial No. 566,120, published Feb. 14, 1950.

Coal, Lignite. Truax-Traer Coal Company. 534,910, Dec. 19; Serial No. 561,353, published Sept. 12, 1950.

Drilling fluid concentrate, Oil base. Ken Corporation. 535,016, Dec. 19; Serial No. 583,697, published Sept. 19, 1950.

Plastic bristles. Modglin Company, Inc. 534,921, Dec. 19; Serial No. 565,072, published Sept. 19, 1950.

Seed, Field. Weaver Brothers. 535,030, Dec. 19; Serial No. 586,333, published Sept. 19, 1950.

Seed potatoes. The Wilcoh Company. 534,920, Dec. 19; Serial No. 564,671, published Sept. 12, 1950.

Seeds, C. M. Volkman & Co. 534,952, Dec. 19; Serial No. 572,142, published Sept. 19, 1950.

Sponges, Synthetic. Ivano, Inc. 535,006, Dec. 19; Serial No. 581,960, published Aug. 8, 1950.

CLASS 3

Billfolds. Buxton, Incorporated. 535,054, Dec. 19; Serial No. 589,499, published Aug. 29, 1950.

Wallets. Philip Florin, Inc. 535,043, Dec. 19; Serial No. 587,799, published Aug. 15, 1950.

CLASS 4

Abrasive burnishing and polishing compounds. J. Lupo. 535,021, Dec. 19; Serial No. 584,583, published Sept. 19, 1950.

Abrasive scrubbing mitts. G. T. McAnany. 535,007, Dec. 19; Serial No. 582,138, published Sept. 12, 1950.

Cutting, grinding, tumbling, and polishing compounds. J. Lupo. 534,883, Dec. 19; Serial No. 551,643, published Sept. 12, 1950.

Detergent, Wool washing. Lorraine Compounds, Inc. 502,631, Oct. 5, 1948. New certificate. O. G. Dec. 19.

Polish, Automobile, and automobile wax and polish. Kocolene Company, Inc. 534,907, Dec. 19; Serial No. 561,026, published Sept. 19, 1950.

Polish, Shoe. Hollywood Shoe Polish, Inc. 535,019, Dec. 19; Serial No. 584,121, published Sept. 19, 1950.

Polishes, Shoe, shoe cleaners, and leather preservatives. Griffin Manufacturing Company, Inc. 278,479, renewed Dec. 16, 1950. O. G. Dec. 19.

Wax, Floor. Scientific Supply Co., Inc. 535,004, Dec. 19; Serial No. 581,360, published Sept. 19, 1950.

Wax, Liquid. V. J. Vincent. 535,008, Dec. 19; Serial No. 582,331, published Sept. 19, 1950.

CLASS 5

Glue, Flexible. Swift & Company. 535,032–3; Dec. 19; Serial Nos. 586,664–5, published Sept. 12, 1950.

Glues and gelatins in powder form. Consolidated Chemical Industries, Inc. 535,002, Dec. 19; Serial No. 581,122, published Sept. 19, 1950.

Tape, Gummed, gummed cloth and gummed paper. Hudson Pulp and Paper Corp. 534,931, Dec. 19; Serial No. 567,403, published Sept. 19, 1950.

CLASS 6

Horticultural compound. Thompson Horticultural Chemicals Corporation. 535,116, Dec. 19; Serial No. 581,844.

Insecticides. Larvacide Service Inc. 285,047, July 14, 1931. Republished Dec. 19.

Lye. The Pennsylvania Salt Manufacturing Company. 534,922–3, Dec. 19; Serial No. 565,448–9, published Sept. 19, 1950.

Preparations for the treatment of gravel, stone, and other manifestations of the uric-acid diathesis, etc. The Midy Laboratories, (Inc.) 534,860, Dec. 19; Serial No. 531,695, published Dec. 7, 1948.

Weed killer, Chemical. Mutual Dealers Wholesale, Inc. 534,893, Dec. 19; Serial No. 557,373, published July 11, 1950. (Consolidated certificate, Classes 6, 16, 21, 31, and 35.)

CLASS 9

Rifles. Stoeger Arms Corporation. 535,120, Dec. 19; Serial No. 589,478.

CLASS 11

Printer's inks. Tourangeau Ink Co. 534,941, Dec. 19; Serial No. 569,024, published Sept. 12, 1950.

CLASS 12

Brick, tile, and building blocks, etc. F. F. Rees. 534,977, Dec. 19; Serial No. 576,984, published Sept. 26, 1950.

Bricks and blocks, Building and paving. The Metropolitan Paving Brick Company. 275,556–7, renewed Sept. 23, 1950. O. G. Dec. 19.

Bricks, Refractory, and special shapes of clay tile and brick. General Refractories Company. 534,889, Dec. 19; Serial No. 555,869, published Aug. 29, 1950.

Caulking compounds. Battenfeld Grease & Oil Corp. 535,118, Dec. 19; Serial No. 582,466.

Cement, Hydraulic iron. Smooth-On Manufacturing Company. 349,728, Aug. 31, 1937. Canceled Nov. 16, 1950. O. G. Dec. 19.

Cement, Masonry. General Portland Cement Company. 534,890, Dec. 19; Serial No. 555,936, published Aug. 29, 1950.

Concrete. The Jaeger Machine Company. 275,759, renewed Sept. 30, 1950. O. G. Dec. 19.

Ferrous metal products, Specially prepared. The American Rolling Mill Company. 534,852, Dec. 19; Serial No. 527,716, published Aug. 15, 1950.

Ferrous metal products, Specially prepared. The American Rolling Mill Company. 534,853, Dec. 19; Serial No. 528,033, published Aug. 15, 1950.

Fire brick. Harbison-Walker Refractories Company. 534,915, Dec. 19; Serial No. 563,333, published Sept. 12, 1950.

Fire brick. Harbison-Walker Refractories Company. 534,916, Dec. 19; Serial No. 563,335, published Sept. 12, 1950.

Insulation board. P. W. Cecil. 534,936, Dec. 19; Serial No. 567,840, published Aug. 29, 1950.

Lime in powdered form for building and construction purposes. The Ohio Hydrate & Supply Company. 534,998, Dec. 19; Serial No. 580,558, published Aug. 15, 1950.

Marble cut to size, finished marble, and cut stone. The Georgia Marble Company. 534,856, Dec. 19; Serial No. 529,631, published Aug. 29, 1950.
Plaster. Acme Cement Plaster Co. 53,674, June 12, 1906. Republished Dec. 19.
Preparation, Liquid, for use as a concrete hardener and foundation coating, etc. B. Berman. 182,182, Apr. 1, 1924. Republished Dec. 19.
Putties. Webb Products Company. 534,885, Dec. 19; Serial No. 553,325, published Aug. 29, 1950.
Refractory bonding materials, Non-hydraulic. Harbison-Walker Refractories Company. 534,961, Dec. 19; Serial No. 573,944, published Aug. 29, 1950.
Roofing slate. Bangor Slate Association Inc. 278,357, renewed Dec. 16, 1950. O. G. Dec. 19.
Self-hardening organic resin composition. The Pennsylvania Salt Manufacturing Company. 534,881, Dec. 19; Serial No. 549,655, published Sept. 12, 1950.
Stone, Artificial; Portland cement, magnesia cement; etc. Vibro-Plus Corp. 534,895, Dec. 19; Serial No. 557,792, published Aug. 15, 1950.
Stone, Artificial; Portland cement, magnesia cement; etc. Vibro-Plus Corp. 534,896, Dec. 19; Serial No. 557,794, published Aug. 15, 1950.
Tiles, Floor, wall and ceiling. The Mosaic Tile Company. 535,040–1, Dec. 19; Serial Nos. 587,688–9, published Aug. 29, 1950.
Windows, Metal, metal screens, metal doors, etc. J. Sylvan. 534,962, Dec. 19; Serial No. 573,992, published Apr. 4, 1950.

CLASS 13

Chain links and detachable chain links. The Boston Metals Company. 534,964, Dec. 19; Serial No. 575,245, published Sept. 19, 1950.
Fittings, General plumbing, and assemblies and drainage products. J. A. Zurn Mfg. Co. 534,985, Dec. 19; Serial No. 578,002, published Sept. 19, 1950.
Metal stays. National Metal Edge Box Company. 534,898, Dec. 19; Serial No. 558,581, published Sept. 26, 1950.
Nuts, Self-locking. Standard Presses Steel Co. 534,954, Dec. 19; Serial No. 572,597, published Sept. 19, 1950.
Plumbing and drainage products. J. A. Zurn Mfg. Co. 534,984, Dec. 19; Serial No. 578,001, published Sept. 12, 1950.
Products made from steel and/or iron and/or metal alloys. Gulf States Steel Company. 275,694, Sept. 30, 1930. Republished Dec. 19.
Studs, Electric arc welding metal. Morton Gregory Corporation. 534,959, Dec. 19; Serial No. 573,499, published Sept. 19, 1950.
Valves and parts thereof. Automatic Pump & Softener Corporation. 534,963, Dec. 19; Serial No. 574,813, published Sept. 19, 1950.

CLASS 14

Forgings, Metal. J. H. Williams & Co. 80,202, re-renewed Nov. 15, 1950. O. G. Dec. 19.
Metals, Nonferrous, and nonferrous metal castings. The Baldwin Locomotive Works. 535,100, Dec. 19; Serial No. 554,080.
Stampings, Metal. Mullins Manufacturing Corporation. 275,232, renewed Sept. 16, 1950. O. G. Dec. 19.
Stampings, Sheet-metal. Mullins Manufacturing Corporation. 274,830, renewed Sept. 9, 1950. O. G. Dec. 19.

CLASS 15

Gasoline and other motor fuel oils, lubricating oil and grease. The Pure Oil Company. 534,851, Dec. 19; Serial No. 527,354, published Dec. 6, 1949.
Oil, Lubricating, and gasoline. Manning Mfg. Co. 373,746, Dec. 19, 1939. Canceled Oct. 25, 1950. O. G. Dec. 19.

CLASS 16

Compositions, Metal dust-containing, in the nature of a paint for coating metals. Industrial Metal Protectives, Inc. 534,949, Dec. 19; Serial No. 517,060, published Oct. 19, 1948.
Paint, House, house trim paint, barn paint, etc. Mutual Dealers Wholesale Inc. 534,893, Dec. 19; Serial No. 557,374, published Mar. 21, 1950. (Consolidated certificate, classes 6, 16, 21, 31, and 35.)
Paints, etc. Everseal Manufacturing Co. Inc. 256,511, May 21, 1929. Republished Dec. 19.
Paints, Flat oil. Sapolin Paints Inc. 534,917, Dec. 19; Serial No. 563,548, published Sept. 5, 1950.
Varnish preparation, Liquid. All-Protect Products Corporation. 535,106, Dec. 19; Serial No. 563,386.
Wax compositions. Windsor Wax Co. Inc. 196,190, Mar. 10, 1925. Republished Dec. 19.

CLASS 18

Effervescent laxative preparation. Floret Products Co. 360,592, Sept. 20, 1938. Republished Dec. 19.
Laxative medicine. C. F. Simmons Medicine Co., Incorporated. 279,982, renewed Feb. 10, 1951. O. G. Dec. 19.
Medicines and pharmaceutical preparations. Waterbury Chemical Company, Inc. 278,721, renewed Dec. 30, 1950. O. G. Dec. 19.
Pharmaceutical preparation. Abbott Laboratories. 534,967, Dec. 19; Serial No. 575,514, published May 31, 1949.
Pharmaceutical preparations. Humblet Laboratories Limited. 534,974–5, Dec. 19; Serial Nos. 576,806–7, published Sept. 12, 1950.
Remedies for diseases of the stomach and intestines. Ramon Saiz y Carlos. 35,634, re-renewed Dec. 25, 1950. O. G. Dec. 19.
Tick killer in powder form. Polk Miller Products Corporation. 535,092, Dec. 19; Serial No. 524,344.
Vitamin-containing preparations. VCA Laboratories. 534,904, Dec. 19; Serial No. 560,237, published July 25, 1950.

CLASS 19

Seat covers, Automobile. Bryant Manufacturing Company, Inc. 535,117, Dec. 19; Serial No. 582,123.
Vehicles, Power driven. Lewin Road Sweepers Limited. 444,364, Dec. 19; Serial No. 503,256.

CLASS 21

Batteries, Automotive, farm light batteries, spark plugs, etc. Mutual Dealers Wholesale Inc. 534,893, Dec. 19; Serial No. 557,376, published Feb. 28, 1950. (Consolidated certificate, classes 6, 16, 21, 31, and 35.)
Batteries, Storage, and parts thereof. Pille Bros., Inc. 271,811, June 17, 1930. Republished Dec. 19.
Fixtures, Electric-lighting, table, floor and bridge lamps and parts thereof. The Miller Company. 277,344, renewed Nov. 11, 1950. O. G. Dec. 19.
Irons, Automatic electric waffle. Waters-Genter Co. 276,784, renewed Oct. 28, 1950. O. G. Dec. 19.
Lighting units, Industrial electric, adjustable electric lamp brackets, etc. W. H. Woodward. 535,046, Dec. 19; Serial No. 587,985, published Sept. 5, 1950.
Loudspeakers. Quam-Nichols Company. 534,863, Dec. 19; Serial No. 534,470, published Sept. 5, 1950.

CLASS 22

Artificial fish bait. C. D. Kirk. 535,114, Dec. 19; Serial No. 581,423.

CLASS 23

Agricultural machines. Allis-Chalmers Manufacturing Company. 534,884, Dec. 19; Serial No. 552,559, published Aug. 22, 1950.
Brush cleaners. J. J. Raya. 534,876, Dec. 19; Serial No. 543,748, published Sept. 19, 1950.
Coal washing and ore concentrating tables. The Deister Concentrator Company. 534,897, Dec. 19; Serial No. 557,910, published Aug. 29, 1950.
Compressed air operated foam producing apparatus. The Scott & Fetzer Company. 534,937, Dec. 19; Serial No. 568,463, published Aug. 29, 1950.
Conveyors, Combination pneumatic and sluice, and conveying systems. United Conveyor Corporation. 280,937, renewed Mar. 3, 1951. O. G. Dec. 19.
Conveyors, Combination pneumatic and sluice, and conveying systems. United Conveyor Corporation. 280,981, renewed Mar. 3, 1951. O. G. Dec. 19.
Dispensers, Mechanically operated paper towel. Green Bay Paper Products Co., Inc. 534,878, Dec. 19; Serial No. 546,388, published Sept. 12, 1950.
Ejectors, sewage ejectors, pneumatic valves, etc. Yeomans Brothers Company. 534,858, Dec. 19; Serial No. 530,793, published Sept. 19, 1950.
Elevators, Power operated portable. Better-Bilt Manufacturing Company. 535,095, Dec. 19; Serial No. 543,084.
Machines for fabricating, filling and sealing non-metallic cartons. Oswego Falls Corporation. 534,929, Dec. 19; Serial No. 566,539, published Sept. 19, 1950.
Mountings, Seat, seat suspensions and seats and seat cushions. Bostrom Manufacturing Company. 535,105, Dec. 19; Serial No. 558,101.
Pocket knives. Imperial Knife Company, Inc. 534,926, Dec. 19; Serial No. 565,876, published Sept. 19, 1950.
Pulverizing machines. G. F. Pettinos. 279,913, renewed Feb. 3, 1951. O. G. Dec. 19.
Pumps, Fuel injection. Hartford Machine Screw Co. 535,050, Dec. 19; Serial No. 588,490, published Aug. 22, 1950.
Saws and machine knives. Simonds Saw and Steel Company. 534,987, Dec. 19; Serial No. 578,053, published Sept. 12, 1950.
Scaling tool, Fish. S-B Manufacturing Company. 535,025, Dec. 19; Serial No. 585,480, published Aug. 29, 1950.
Sewing machines and parts thereof. Clean-Rite Vacuum Stores of Washington, Inc. 534,993, Dec. 19; Serial No. 579,735, published Sept. 12, 1950.
Spreaders for the spreading of butter. Hartmann Manufacturing Company. 535,099, Dec. 19; Serial No. 552,242.
Tentering machines, carbonising machines, dyeing machines, etc. The Spooner Dryer & Engineering Company Limited. 535,115, Dec. 19; Serial No. 581,460.
Timing gears. Dexter Machine Products, Inc. 534,882, Dec. 19; Serial No. 551,091, published Sept. 12, 1950.
Typewriting machines and parts thereof. Regal Typewriter Company, Inc. 274,548, Sept. 2, 1930. Republished Dec. 19.
Wrenches, wrench sets, wrench sockets, and tool handles. J. H. Williams & Co. 277,308, renewed Nov. 11, 1950. O. G. Dec. 19.

CLASS 24

Dry cleaning machinery. American Machine and Metals, inc. 535,121, Dec. 19; Serial No. 590,344.
Dryer, Clothes. Electric Household Utilities Corporation. 361,760, Nov. 1, 1938. Republished Dec. 19.
Dryers, Outdoor and indoor clothes. Kamkap, Inc. 535,122, Dec. 19; Serial No. 599,329.
Sad irons, Gasoline and kerosene burning. S. F. Appliances, Limited. 535,103, Dec. 19; Serial No. 557,160.

CLASS 26

Films, Printed motion-picture. Metro-Goldwyn-Mayer Corporation. 277,427, renewed Nov. 11, 1950. O. G. Dec. 19.
Motion-picture cartoons, Series of animated. Universal Pictures Corporation. 250,300, renewed Dec. 4, 1948. O. G. Dec. 19.

CLASS 27

Clocks and watches. The Western Clock Mfg. Co. 80,503, Dec. 27, 1910. Republished Dec. 19.

CLASS 28

Badges, Fraternity, and lapel buttons. Sigma Alpha Epsilon Fraternity. 277,162, Nov. 11, 1950. Republished Dec. 19.
Flat ware, Silver-plated, hollow ware, and tableware. Oneida Community Limited. 76,518, re-renewed Jan. 25, 1950. O. G. Dec. 19.
Jewelry. Coro, Inc. 534,992, Dec. 19; Serial No. 579,175, published Aug. 22, 1950.
Rings, Finger. Rosenthal & Kaplan. 441,884, Jan. 18, 1949. Canceled Nov. 16, 1950. O. G. Dec. 19.
Shakers, Salt and pepper, candlesticks, vases, etc. Quaker Silver Company. 271,180, May 27, 1930. Republished Dec. 19.
Zircons and articles of jewelry set or mounted with zircons. Kimberly Gem Co., Inc. 394,460, Apr. 7, 1942. Republished Dec. 19.

CLASS 31

Air cleaners, Intake, and combination cleaners and silencers. Burgess-Manning Company. 535,057, Dec. 19; Serial No. 590,581, published Sept. 19, 1950.
Apparatus for purifying, filtering, and softening water. The Permutit Company. 535,058–9, Dec. 19; Serial Nos. 590,637–8, published Sept. 19, 1950.
Defrosting mechanism. C. V. Hill & Company, Inc. 534,935, Dec. 19; Serial No. 567,696, published Aug. 29, 1950.
Filters, and replacement filter elements. W. C. Carroll, Jr. 535,107, Dec. 19; Serial No. 565,540.
Filters, Industrial rotary drum. Oliver United Filters Incorporated. 534,973, Dec. 19; Serial No. 576,551, published Sept. 19, 1950.
Filters, Mechanical viscous-type ventilating air. American Air Filter Company, Inc. 534,913, Dec. 19; Serial No. 561,999, published Sept. 19, 1950.
Filters, Oil. Mutual Dealers Wholesale Inc. 534,893, Dec. 19; Serial No. 557,377, published Apr. 11, 1950. (Consolidated Certificate, Classes 6, 16, 21, 31, and 35.)
Filters, Oil, and cartridges for oil filters. De Luxe Products Corporation. 535,051, Dec. 19; Serial No. 588,635, published Sept. 12, 1950.
Ice boxes, Portable. Spiegel, Inc. 535,049, Dec. 19; Serial No. 588,400, published Sept. 12, 1950.
Refrigerating apparatus. Kramer Trenton Company. 534,945, Dec. 19; Serial No. 570,618, published Sept. 12, 1950.
Refrigerator units, Mechanical. Sears, Roebuck and Co. 534,903, Dec. 19; Serial No. 559,334, published Aug. 15, 1950.
Refrigerators, Portable electric. Frigid Midget Corporation. 535,053, Dec. 19; Serial No. 589,255, published Sept. 19, 1950.

CLASS 32

Furniture and furnishings. Jackson Furniture Company. 440,662, Sept. 14, 1948. Republished Dec. 19.
Furniture, Home, and furnishings. Jackson Furniture Company. 444,012, May 30, 1950. Republished Dec. 19.

CLASS 33

Shakers, Glass salt and pepper. The Air Konditioning Company. 534,892, Dec. 19; Serial No. 556,753, published July 25, 1950.
Vials, Glass. Owens-Illinois Glass Company. 535,037, Dec. 19; Serial No. 587,046, published Aug. 29, 1950.

CLASS 35

Belting, Machine, and conveyor belting. British Belting & Asbestos Limited. 535,026, Dec. 19; Serial No. 585,698, published Sept. 5, 1950.
Lacings for leather belts. American Lace Leather Co., Inc. 535,119, Dec. 19; Serial No. 588,782.
Linings, Vehicle brake, canvas and rubber belts and belting. Mutual Dealers Wholesale Inc. 534,893, Dec. 19; Serial No. 557,375, published Nov. 22, 1949. (Consolidated Certificate, Classes 6, 16, 21, 31, and 35.)
Packing for pumps. A. D. Cook Incorporated. 535,110, Dec. 19; Serial No. 574,019.
Rings, Piston. Superior Piston Ring Co., Inc. 381,480, Sept. 24, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19.
Rubber goods. Phoenix Manufacturing Company. 274,724, renewed Sept. 2, 1950. O. G. Dec. 19.
Tires, tubes, accessories, etc. Cities Service Oil Company. 534,949, Dec. 19; Serial No. 571,407, published Aug. 29, 1950.

CLASS 36

Guitars, Hawaiian and Spanish amplifying and electric, and guitar accessories. Valco Manufacturing Company. 444,363, Dec. 19; Serial No. 513,280, published Jan. 25, 1949.

CLASS 37

Paper, Toilet. National Paper Products Company. 279,461, renewed Jan. 13, 1951. O. G. Dec. 19.
Paper, Toilet, paper towels, and napkins. Hoberg Paper & Fibre Company. 278,791, renewed Dec. 30, 1950. O. G. Dec. 19.
Paper, Wrapping, bristol board, cover paper, etc. Riegel Paper Corporation. 278,802, Dec. 30, 1930. Republished Dec. 19.
Pencils. Joseph Dixon Crucible Company. 280,586, renewed Feb. 24, 1951. O. G. Dec. 19.
Pencils, Lead. Eagle Pencil Company. 317,526, Sept. 25, 1934. Republished Dec. 19.
Pencils, Lead, pencil-point protectors, pencil holders, etc. Eagle Pencil Company. 253,611, Mar. 5, 1929. Republished Dec. 19.

CLASS 38

Daily newspaper. Fall River Herald News Publishing Company. 273,467, Aug. 5, 1930. Republished Dec. 19.
Magazine, Monthly. Forest and Stream, Inc. 275,813, renewed Sept. 30, 1950. O. G. Dec. 19.
Periodical. Advertising Publications, Incorporated. 273,431, Aug. 5, 1930. Republished Dec. 19.
Publication, Daily trade. Stark-Rath Printing and Publishing Company. 275,811, renewed Sept. 30, 1950. O. G. Dec. 19.
Vignette or masthead on a daily newspaper. Post-Enquirer Publishing Company. 289,577, Dec. 1, 1931. Republished Dec. 19.

CLASS 39

Boots and shoes. Health Spot Shoe Company. 535,056, Dec. 19; Serial No. 590,221, published Sept. 5, 1950.
Boots and shoes. C. H. Hyer & Sons. 535,009, Dec. 19; Serial No. 582,481, published Aug. 22, 1950.
Boots and shoes. A. A. Williams. 535,069, Dec. 19; Serial No. 593,198, published Sept. 5, 1950.
Clothing, Men's. Countess Mara, Inc. 534,902, Dec. 19; Serial No. 559,007, published Aug. 22, 1950.
Coats and suits, Juniors' and misses'. Louis Shlansky Corporation. 535,048, Dec. 19; Serial No. 588,325, published Sept. 5, 1950.
Coats and suits, Ladies' and Misses'. Arthur Levine, Inc. 534,894, Dec. 19; Serial No. 557,613, published Sept. 5, 1950.
Coats and suits, Misses' and juniors'. The Mar-Kay Company. 534,887, Dec. 19; Serial No. 554,681, published Sept. 26, 1950.
Coats, suits, dresses, etc., Women's and misses'. The Tailored Woman, Inc. 381,680, Oct. 1, 1940. Republished Dec. 19.
Coats, vests, trousers, etc., Men's and young men's. Simon Ackerman Clothes, Inc. 534,934, Dec. 19; Serial No. 567,670, published Aug. 22, 1950.
Combination garments for women. The H. W. Gossard Co. 280,517, renewed Feb. 17, 1951. O. G. Dec. 19.
Cushions which help to prevent run-over heels. Trimfoot Company. 534,861, Dec. 19; Serial No. 533,421, published Sept. 26, 1950.
Diaper coverings. Donovan Enterprises, Incorporated. 535,036, Dec. 19; Serial No. 587,016, published Sept. 26, 1950.
Diapers. McCrory Stores Corporation. 534,940, Dec. 19; Serial No. 568,965, published Sept. 19, 1950.
Dresses and ladies' suits. A. Goodman & Co., Inc. 535,044, Dec. 19; Serial No. 587,870, published Sept. 26, 1950.
Dresses and sportswear, Ladies'. Liberty Frock Company, Inc. 535,045, Dec. 19; Serial No. 587,877, published Sept. 26, 1950.
Dresses, coats, suits, etc., Ladies' and misses'. David Crystal, Inc. 535,038, Dec. 19; Serial No. 587,181, published Sept. 26, 1950.
Dresses, suits and coats for women. Callot Soeurs of Paris, Inc. 535,042, Dec. 19; Serial No. 587,791, published Sept. 5, 1950.
Garments, Men's and womens' quilted. Jensen Manufacturing Company. 413,126, Apr. 10, 1945. Republished Dec. 19
Gloves and mittens. Butler Brothers. 348,252, July 20, 1937. Canceled Nov. 16, 1950. O. G. Dec. 19.
Gloves, Leather and fabric. Wimelbacher & Rice. 280,519, renewed Feb. 17, 1951. O. G. Dec. 19.
Hats, Men's. Byer-Rolnick Company. 534,862, Dec. 19; Serial No. 533,845, published Aug. 22, 1950.
Hats, Men's, women's and children's straw. Bronston Hat Co. 300,610, Jan. 24, 1933. Canceled Oct. 11, 1950. O. G. Dec. 19.

Hosiery. S. I. Burd. 279,023, renewed Jan. 6, 1951. O. G. Dec. 19.

Hosiery. Neustadter Brothers. 278,506, renewed Dec. 23, 1950. O. G. Dec. 19.

Hosiery, Ladies'. McCrory Stores Corporation. 534,938, Dec. 19; Serial No. 568,746, published Sept. 19, 1950.

Hosiery, sweaters, etc. Dallas Wholesale Co., Ltd. 534,914, Dec. 19; Serial No. 562,330, published Sept. 19, 1950.

Outer sportwear, Ladies'. Rogers Sportwear Co., Inc. 535,062, Dec. 19; Serial No. 591,515, published Sept. 26, 1950.

Overalls, jumpers, Men's and boys', men's and boys' workshirts, etc. Harris-Lipsitz Company. 80,917, renewed Feb. 14, 1951. O. G. Dec. 19.

Overcoats and topcoats for men and boys. The Joseph & Feiss Co. 534,844, Dec. 19; Serial No. 479,079, published Sept. 26, 1950.

Pajamas, pajama coats, etc., Women's. Kaylon Incorporated. 534,951, Dec. 19; Serial No. 571,976, published Sept. 19, 1950.

Protectors for the upper and lower front portion of shoes. Bumper Products, Inc. 534,956, Dec. 19; Serial No. 572,721, published Sept. 5, 1950.

Shoes. Cannon Shoe Company. 535,079, Dec. 19; Serial No. 594,357, published Sept. 19, 1950.

Shoes. Delman, Inc. 535,017–8, Dec. 19; Serial Nos. 584,111–12, published Aug. 22, 1950.

Shoes. Dixon-Hartlett Company. 535,080, Dec. 19; Serial No. 594,896, published Sept. 26, 1950.

Shoes. Rice O'Neill Shoe Company. 535,068, Dec. 19; Serial No. 593,141, published Sept. 5, 1950.

Shoes. The Selby Shoe Company. 535,028, Dec. 19; Serial No. 586,226, published Sept. 26, 1950.

Shoes and oxfords. W. B. Coon Company. 534,879, Dec. 19; Serial No. 547,702, published Sept. 12, 1950.

Shoes and sandals, Men's. Adler Sons Shoe Corp. 534,847, Dec. 19; Serial No. 512,887, published Sept. 5, 1950.

Shoes, Athletic. Bristol Manufacturing Corporation. 535,060, Dec. 19; Serial No. 590,642, published Sept. 26, 1950.

Shoes, Ladies' and misses'. J. M. Izsack. 534,968, Dec. 19; Serial No. 575,862, published Sept. 5, 1950.

Shoes, Men's, women's, and children's. Curtis-Stephens-Embry Co., Inc. 535,029, Dec. 19; Serial No. 586,267, published Sept. 5, 1950.

Shoes, Misses', girls', boys', men's, women's, and children's. A. S. Kreider Shoe Manufacturing Company. 535,063, Dec. 19; Serial No. 591,783, published Sept. 5, 1950.

Shoes, sport shoes and boots, Men's and women's. The Florsheim Shoe Company. 535,078, Dec. 19; Serial No. 594,266, published Sept. 26, 1950.

Shoes, Women's. Evins, Inc. 534,854, Dec. 19; Serial No. 528,997, published Sept. 5, 1950.

Shoes, Women's. John Irving Shoe Corporation. 534,909, Dec. 19; Serial No. 561,243, published Sept. 26, 1950.

Shoes, Women's and misses'. Camille Designs, Inc. 535,072, Dec. 19; Serial No. 593,467, published Sept. 26, 1950.

Sleeping garments, Children's. Glendale Knitting Corporation. 535,031, Dec. 19; Serial No. 586,532, published Sept. 12, 1950.

Slippers, Bedroom. Korth-Jefferson, Inc. 535,055, Dec. 19; Serial No. 589,728, published Sept. 5, 1950.

Slips, nightgowns, pajamas, Ladies' and children's princess, etc. I. Schnelerson & Sons, Inc. 534,901, Dec. 19; Serial No. 558,931, published Sept. 26, 1950.

Soles, Unfinished leather. The Viscol Company. 535,013, Dec. 19; Serial No. 583,303, published Sept. 26, 1950.

Sportswear, Knitted, for women. Gotham Knitting Mills, Inc. 534,886, Dec. 19; Serial No. 554,566, published Sept. 12, 1950.

Stiffeners for boots and shoes. Avalon Leather Board Company Limited. 534,947, Dec. 19; Serial No. 571,000, published Sept. 5, 1950.

Suits and coats, Misses'. Sam Silberstein Corp. 535,075, Dec. 19; Serial No. 593,618, published Sept. 19, 1950.

Suits and coats, Misses'. Sam Silberstein Corp. 535,076, Dec. 19; Serial No. 593,619, published Sept. 26, 1950.

Suits, Men's and young men's. Timely Clothes, Inc. 535,067, Dec. 19; Serial No. 592,727, published Sept. 5, 1950.

Sweaters and gloves, Ladies', misses', children's. Kline Brothers Company. 274,921, renewed Sept. 9, 1950. O. G. Dec. 19.

Sweaters, Knitted, knitted and woven jackets, and sport coats. Revere Knitting Mills, Inc. 534,870, Dec. 19; Serial No. 541,341, published Sept. 19, 1950.

Top coats and overcoats, Men's. Levy Bros. & Adler Rochester, Inc. 535,066, Dec. 19; Serial No. 592,641, published Sept. 5, 1950.

Underwear, Women's and misses'. Belinda Undergarment Co., Inc. 534,871, Dec. 19; Serial No. 541,497, published Sept. 26, 1950.

Union suits, Men's. The May Department Stores Company. 535,024, Dec. 19; Serial No. 585,383, published Sept. 5, 1950.

Wearing apparel. The Tailored Woman, Inc. 175,362, Nov. 6, 1923. Republished Dec. 19.

Wearing apparel, Women's and misses'. The Tailored Woman, Inc. 422,760, Aug. 13, 1946. Republished Dec. 19.

CLASS 40

Device for holding gloves. Gluv-Gard Manufacturing Company. 535,034, Dec. 19; Serial No. 586,692, published Sept. 5, 1950.

Dress fasteners. Columbia Fastener Company. 534,930, Dec. 19; Serial No. 566,975, published Aug. 22, 1950.

CLASS 42

Antimacassars, bed coverlets, bed sheeting, etc. Vantona Textiles Limited. 534,981, Dec. 19; Serial No. 577,240, published Sept. 12, 1950.

Blankets; bed comfortables; quilts, etc. Beacon Manufacturing Company. 534,911, Dec. 19; Serial No. 561,794, published Sept. 12, 1950.

Blankets, Textile, comforts, motor robes, etc. Carlin Comforts, Inc. 534,944, Dec. 19; Serial No. 569,809, published Aug. 8, 1950.

Carpets and rugs, Textile. C. H. Masland & Sons. 534,999, Dec. 19; Serial No. 580,610, published Sept. 5, 1950.

Crib blankets. Beacon Manufacturing Company. 534,912, Dec. 19; Serial No. 561,797, published Sept. 12, 1950.

Crib sheets and crib pillow cases. McCrory Stores Corporation. 534,939, Dec. 19; Serial No. 568,747, published Sept. 12, 1950.

Curtains, Duck shower-bath. Chase Brass & Copper Co. Incorporated. 278,462, renewed Dec. 16, 1950. O. G. Dec. 19.

Denims in the piece. Erwin Cotton Mills Company. 534,864, Dec. 19; Serial No. 535,510, published Sept. 5, 1950.

Dishcloths. Granite Looms, Inc. 534,996, Dec. 19; Serial No. 580,039, published Sept. 12, 1950.

Fabrics, Corduroy. Turner Jones Company, Inc. 535,005, Dec. 19; Serial No. 581,917, published Sept. 12, 1950.

Fabrics in the piece. Deering, Milliken & Company, Inc. 535,064, Dec. 19; Serial No. 591,895, published Aug. 29, 1950.

Fabrics in the piece, Woven elastic. Rayflex Fabrics, Inc. 535,073–4, Dec. 19; Serial Nos. 593,500–1, published Sept. 12, 1950.

Fabrics, Pile. American Velour Mills, Inc. 534,995, Dec. 19; Serial No. 580,041, published Sept. 12, 1950.

Fabrics, Pile. Vanetta Velvet Co., Inc. 281,221, Mar. 10, 1931. Canceled Oct. 25, 1950. O. G. Dec. 19.

Fabrics, Rayon, cotton, linen, etc., textile. Tanbro Fabrics Corp. 535,001, Dec. 19; Serial No. 581,055, published Sept. 12, 1950.

Fabrics, Textile. Decorative Fabrics, Inc. 534,990, Dec. 19; Serial No. 579,019, published Sept. 12, 1950.

Fabrics, Treated textile. J. J. White. 535,052, Dec. 19; Serial No. 589,181, published Aug. 15, 1950.

Piece goods. Celanese Corporation of America. 535,065, Dec. 19; Serial No. 592,073, published Sept. 12, 1950.

Piece goods. Dan River Mills, Incorporated. 534,986, Dec. 19; Serial No. 578,008, published Sept. 12, 1950.

Piece goods. Lincoln Fabrics Co., Inc. 534,960, Dec. 19; Serial No. 573,560, published Sept. 12, 1950.

Piece goods. Tootal Broadhurst Lee Co. Limited. 534,979, Dec. 19; Serial No. 577,081, published Sept. 12, 1950.

Piece goods, Cotton. Martin Dyeing and Finishing Co. 280,445, renewed Feb. 17, 1951. O. G. Dec. 19.

Piece goods, Cotton. Wamsutta Mills. 534,948, Dec. 19; Serial No. 571,372, published Sept. 12, 1950.

Piece goods, Cotton and cotton and woolen. Avondale Mills. 534,953, Dec. 19; Serial No. 572,345, published Sept. 12, 1950.

Piece goods, etc. Mercantile Stores Company, Inc. 534,976, Dec. 19; Serial No. 576,817, published Sept. 5, 1950.

Piece goods, Lace. American Textile Company, Inc. 534,932, Dec. 19; Serial No. 567,480, published Sept. 12, 1950.

Piece goods, Textile. Tootal Broadhurst Lee Co. Limited. 534,980, Dec. 19; Serial No. 577,082, published Sept. 12, 1950.

Piece goods, Woolen. Forstmann & Huffmann Company. 274,896–8, renewed Sept. 9, 1950. O. G. Dec. 19.

Piece goods, Woolen. Forstmann & Huffmann Company. 275,917, renewed Oct. 7, 1950. O. G. Dec. 19.

Piece goods, Woolen. Forstmann & Huffmann Company. 276,059–66, renewed Oct. 7, 1950. O. G. Dec. 19.

Piece goods, Woolen. Forstmann & Huffmann Company. 276,191–6, renewed Oct. 14, 1950. O. G. Dec. 19.

Piece goods, Woolen and worsted. Anglo Fabrics Company, Inc. 535,077, Dec. 19; Serial No. 593,704, published Sept. 12, 1950.

Piece goods, Worsted. Botany Mills, Inc. 535,070, Dec. 19; Serial No. 593,256, published Sept. 12, 1950.

Rayon, cotton, linen, wool, nylon, and silk goods in the piece. Tanbro Fabrics Corp. 534,983, Dec. 19; Serial No. 577,753, published Sept. 5, 1950.

Rugs and carpeting, Textile. Sears, Roebuck and Co. 535,000, Dec. 19; Serial No. 581,025, published Sept. 12, 1950.

Rugs and carpets, Textile, woven, woolen. Mohawk Carpet Mills, Inc. 535,071, Dec. 19; Serial No. 593,431, published Sept. 12, 1950.

Rugs, Cotton. Lawrence Products Company, Inc. 534,966, Dec. 19; Serial No. 575,473, published Sept. 12, 1950.

CLASS 43

Threads and yarns, Linen, cotton, and silk. Hughes Fawcett, Inc. 280,621, renewed Feb. 24, 1951. O. G. Dec. 19.

Yarns. James Lees and Sons Company. 534,900, Dec. 19; Serial No. 558,896, published Sept. 12, 1950.

CLASS 44

Acrylic resin denture materials. The L. D. Caulk Company. 534,918, Dec. 19; Serial No. 564,189, published Sept. 19, 1950.

Catheters, Ureteral and urethral, endotracheal catheters, etc. United States Catheter & Instrument Corp. 535,061, Dec. 19; Serial No. 590,768, published Sept. 19, 1950.

Contra-angle-uts for taper shank burs. Densco, Incorporated. 534,965, Dec. 19; Serial No. 575,393, published Sept. 12, 1950.

Fingernail files, tweezers, and cuticle scissors. Butler Brothers. 535,035, Dec. 19; Serial No. 587,012, published Sept. 12, 1950.

Hair waving pads, Machineless. Bonat & Bonat, Inc. 534,950, Dec. 19; Serial No. 571,893, published Aug. 15, 1950.

Inhalers and electric breast pumps. Silten Ltd. 534,971, Dec. 19; Serial No. 576,233, published Sept. 19, 1950.

Irradiation apparatus. Belmag Zuerich, Beleuchtungs-und Metallindustrie A. G. 444,362, Dec. 19; Serial No. 512,894, published Sept. 19, 1950.

Manicure implements. The Wigder Manufacturing Co. 534,880, Dec. 19; Serial No. 548,772, published Sept. 19, 1950.

Prophylactic membranous articles. Youngs Rubber Corporation. 535,027, Dec. 19; Serial No. 585,817, published Aug. 15, 1950.

Shakers, Salt and pepper, candlesticks, vases, etc. Quaker Silver Company. 271,180, May 27, 1930. Republished Dec. 19.

Surgical pads and truss pads. Surgical Appliance Industries Inc. 535,020, Dec. 19; Serial No. 584,255, published Sept. 19, 1950.

Syringes, Irrigating and aspirating. Meinecke & Company. 534,877, Dec. 19; Serial No. 545,020, published Aug. 29, 1950.

Toothpicks. The Diamond Match Company. 535,047, Dec. 19; Serial No. 588,287, published Aug. 29, 1950.

X-ray, fluoroscopic, intensifying and photofluorographic screens. United States Radium Corporation. 535,022, Dec. 19; Serial No. 584,846, published Sept. 19, 1950.

CLASS 45

Beverages, Nonalcoholic, noncereal, maltless. Berkeley Club Bottling and Manufacturing Company, Inc. 359,107, Aug. 2, 1938. Republished Dec. 19.

CLASS 46

Bakery goods. Safeway Stores, Incorporated. 534,988, Dec. 19; Serial No. 578,167, published Aug. 1, 1950.

Candies. Blue Hill Candy Co. 535,108, Dec. 19; Serial No. 569,426.

Candies; and peanut products. Lion Specialty Co. 534,859, Dec. 19; Serial No. 531,339, published Aug. 1, 1950.

Candy. Euclid Candy Company of California, Inc. 279,852, renewed Feb. 3, 1951. O. G. Dec. 19.

Candy, Fresh Pak Candy Company. 535,102, Dec. 19; Serial No. 557,034.

Candy. Norris, Inc. 534,905, Dec. 19; Serial No. 560,650, published July 25, 1950.

Candy bars. W. Schoenfeld. 403,944, Oct. 26, 1943. Canceled Nov. 16, 1950. O. G. Dec. 19.

Canned beets. Aunt Nellie's Farm Kitchen, Inc. 534,874, Dec. 19; Serial No. 543,054, published Aug. 8, 1950.

Canned fruits, canned vegetables, dried fruits, etc. California Co-operative Producers. 278,452, renewed Dec. 16, 1950. O. G. Dec. 19.

Canned mushrooms, bottled pickles, olives, etc. Cashan & Co. 535,098, Dec. 19; Serial No. 549,710.

Canned peaches. Hunt Foods, Inc. 535,023, Dec. 19; Serial No. 585,283, published Aug. 1, 1950.

Canned prunes. W. Battaglia. 535,112, Dec. 19; Serial No. 578,919.

Canned vegetables. Stayton Canning Co. Co-Operative. 534,865, Dec. 19; Serial No. 536,304, published Aug. 1, 1950.

Carrots, Fresh. Merit Packing Company. 534,888, Dec. 19; Serial No. 555,024, published Aug. 1, 1950.

Cereal food product, Exploded. Corntails Company, Inc. 534,958, Dec. 19; Serial No. 573,307, published Aug. 1, 1950.

Cereal food, Vitamin-rich. Vitamins, Limited. 534,970, Dec. 19; Serial No. 576,179, published Aug. 1, 1950.

Chocolate bars. Chocolat Suchard Societe Anonyme. 534,848, Dec. 19; Serial No. 517,034, published Aug. 1, 1950.

Coffee, tea, canned evaporated milk, etc. Reeves Parvin & Co. 534,850, Dec. 19; Serial No. 525,401, published Aug. 1, 1950.

Concentrated food. H. E. Heitz. 534,924, Dec. 19; Serial No. 565,782, published Aug. 1, 1950.

Dates, Fresh, and stuffed fresh dates. Garden of the Setting Sun, Inc. 534,867, Dec. 19; Serial No. 540,065, published Aug. 8, 1950.

Eggs, Fresh. Poultry Producers of Central California. 535,097, Dec. 19; Serial No. 548,606.

Feeds, Poultry. Staley Milling Company. 535,010, Dec. 19; Serial No. 582,501, published Aug. 1, 1950.

Feeds, Poultry; and stock feed. J. B. Ward. 535,093, Dec. 19; Serial No. 533,087.

Flour, Prepared. Doughnut Corporation of America. 380,173, Aug. 13, 1940. Canceled Oct. 27, 1950. O. G. Dec. 19.

Flour, Wheat. The Consolidated Flour Mills Company. 534,991, Dec. 19; Serial No. 579,172, published Aug. 1, 1950.

Flour, Wheat. International Milling Company. 535,039, Dec. 19; Serial No. 587,580, published Aug. 1, 1950.

Food products. J. R. Simplot Company. 535,091, Dec. 19; Serial No. 519,989.

Fruits, Fresh citrus, fresh dates, fresh grapes. A. B. Cliff. 280,268, renewed Feb. 10, 1951. O. G. Dec. 19.

Fruits, Fresh citrus, fresh deciduous fruits, fresh melons. R. H. Dart. 280,269, renewed Feb. 10, 1951. O. G. Dec. 19.

Fruits, Fresh deciduous. V. Girazian. 534,868, Dec. 19; Serial No. 540,067, published Aug. 1, 1950.

Fruits, Fresh deciduous, and fresh grapes. N. Roper. 534,933, Dec. 19; Serial No. 567,530, published Aug. 1, 1950.

Grapes, Fresh. H. A. Guidera & Son. 534,997, Dec. 19; Serial No. 580,406, published Aug. 1, 1950.

Hog food, etc. Cudahy Brothers Co. 510,790, June 7, 1949. Canceled Nov. 15, 1950. O. G. Dec. 19.

Macaroni, spaghetti, and egg noodles, etc. Minnesota Macaroni Company. 535,003, Dec. 19; Serial No. 581,140, published Aug. 1, 1950.

Maraschino cherries. Natural Sugars, Inc. 534,943, Dec. 19; Serial No. 569,285, published Aug. 1, 1950.

Meat, Fresh, and meat cuts. Armour and Company. 534,846, Dec. 19; Serial No. 507,708, published Aug. 15, 1950.

Melons, Fresh, and fresh onions. Anthony Growers Cooperative Association. 534,946, Dec. 19; Serial No. 570,762, published Aug. 1, 1950.

Milk cream, Sterilized cow's. M & R Dietetic Laboratories, Inc. 535,014, Dec. 19; Serial No. 583,351, published Aug. 1, 1950.

Molasses. American Molasses Co. of New York, The. 277,569, renewed Nov. 18, 1950. O. G. Dec. 19.

Oats, Rolled. General Mills, Inc. 534,855, Dec. 19; Serial No. 529,627, published Aug. 1, 1950.

Olive oil. A. R. Pinelli. 535,113, Dec. 19; Serial No. 579,353.

Pecans. R. R. Johnson, Jr. 534,989, Dec. 19; Serial No. 578,451, published Aug. 22, 1950.

Pickles; relishes; chow mein noodles, etc. Crandell Glaser Co. 534,872, Dec. 19; Serial No. 542,915, published Aug. 1, 1950.

Potatoes. Grower-Shipper Potato Company. 534,908, Dec. 19; Serial No. 561,234, published Aug. 1, 1950.

Potatoes, potato chips, and potato flour. Potato Products Corporation. 534,866, Dec. 19; Serial No. 539,435, published Aug. 8, 1950.

Potatoes, Shoe string. A. J. Poole. 535,101, Dec. 19; Serial No. 555,627.

Poultry food. Sperry Flour Company. 275,833, renewed Sept. 30, 1950. O. G. Dec. 19.

Poultry food. Sperry Flour Company. 275,839, renewed Sept. 30, 1950. O. G. Dec. 19.

Poultry food. Sperry Flour Company. 275,841, renewed Sept. 30, 1950. O. G. Dec. 19.

Prepared food for dogs, cats, etc. Chappel Bros., Inc. 278,526, renewed Dec. 23, 1950. O. G. Dec. 19.

Prepared foods. The Cheneys. 534,845, Dec. 19; Serial No. 506,801, published Aug. 1, 1950.

Rice. Rodriguez y Compania. 534,919, Dec. 19; Serial No. 564,468, published Aug. 1, 1950.

Salt. Morton Salt Company. 534,869, Dec. 19; Serial No. 541,164, published Aug. 8, 1950.

Sandwiches. Tyler Products, Inc. 535,109, Dec. 19; Serial No. 573,856.

Sardines, tunny fish and anchovies. J. Naughton, Ltd. 534,873, Dec. 19; Serial No. 542,963, published Aug. 8, 1950.

Shrimp, Processed. Deepsouth Packing Company. 534,955, Dec. 19; Serial No. 572,644, published Aug. 1, 1950.

Soy sauce. A. E. Staley Manufacturing Company. 534,906, Dec. 19; Serial No. 560,664, published Aug. 1, 1950.

Starch, Processed dry, refined from waxy maize for use in the preparation of food products. National Starch Products Inc. 535,111, Dec. 19; Serial No. 574,526.

Taffy, Salt water. R. B. Chase. 535,104, Dec. 19; Serial No. 557,260.

Vegetable stabilizer, Powdered. Eskimo Pie Corporation. 534,994, Dec. 19; Serial No. 579,908, published Aug. 1, 1950.

Yeast culture, Live cell. B. Adam. 535,096, Dec. 19; Serial No. 547,953.

Yeast; yeast food; and malt extract. Acme Breweries. 535,094, Dec. 19; Serial No. 534,222.

CLASS 47

Wines. L'Hermitage-Elk Grove. 382,766, Nov. 12, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19.
Wines. L'Hermitage-Elk Grove. 383,322, Dec. 3, 1940. Canceled Nov. 16, 1950. O. G. Dec. 19.

CLASS 49

Whiskey, Scotch. John Haig & Co. Ltd. 238,198, Jan. 31, 1928. Canceled Oct. 27, 1950. O. G. Dec. 19.

CLASS 50

Closures for bottles and jars. Owens-Illinois Glass Company. 534,925, Dec. 19; Serial No. 565,807, published Aug. 15, 1950.
Metal can closure. Judson Dunaway Corporation. 444,361, Dec. 19; Serial No. 504,343, published Aug. 29, 1950.
Plate or mat for hot plates. H. L. Ross. 534,891, Dec. 19; Serial No. 556,660, published Aug. 15, 1950.
Portable reflecting highway warning signs. Stoddard Products Company, Incorporated. 535,012, Dec. 19; Serial No. 582,657, published July 25, 1950.
Tents. Universal Enterprises. 534,927, Dec. 19; Serial No. 566,059, published Aug. 29, 1950.

CLASS 51

Cologne, perfume, bath oil, bath powder, etc. Harriet Hubbard Ayer, Inc. 534,899, Dec. 19; Serial No. 558,717, published Sept. 12, 1950.
Dentifrice, powder and paste. Amm-i-dent, Inc. 535,011, Dec. 19; Serial No. 582,513, published Dec. 20, 1949.
Hair dressing. Associated Brands, Inc. 534,957, Dec. 19; Serial No. 573,025, published Aug. 15, 1950.
Perfumes. Richard Hudnut. 80,184, re-renewed Nov. 15, 1950. O. G. Dec. 19.
Perfumes, toilet water, colognes, etc. Clergine-Parfumeur, Societe a Responsabilite Limitee. 534,972, Dec. 19; Serial No. 576,522, published Sept. 12, 1950.
Rouge, lipstick, foundation lotion, etc. R. Hudnut. 534,978, Dec. 19; Serial No. 577,055, published Sept. 12, 1950.
Scalp oil and hair reconditioner. E. Villarreal. 534,969, Dec. 19; Serial No. 576,089, published Aug. 29, 1950.
Talcum powders, face powders, rouges, etc. The La Valliere Company. 275,225, renewed Sept. 16, 1950. O. G. Dec. 19.

CLASS 52

Cleaning compound. Los Angeles Soap Company. 534,857, Dec. 19; Serial No. 530,745, published Sept. 19, 1950.
Cream shampoo. Chime Cosmetics, Inc. 534,982, Dec. 19; Serial No. 577,258, published Aug. 8, 1950.
Laundry bleaching compound. W. F. Love. 534,942, Dec. 19; Serial No. 569,077, published Sept. 12, 1950.
Soap. S. Swartz. 535,015, Dec. 19; Serial No. 583,415, published Aug. 29, 1950.

CLASS 100

Public utility services. American Gas and Electric Company. 535,090, Dec. 19; Serial No. 587,148, published Aug. 29, 1950.
Services to the dry cleaning industry. Standard Oil Company of California. 535,082, Dec. 19; Serial No. 542,792, published Sept. 12, 1950.

CLASS 101

Appraisals of law libraries; binding of law books; printing of legal briefs, etc. Joseph M. Mitchell. 535,087, Dec. 19; Serial No. 570,625, published Sept. 26, 1950.
Management engineering service. Southern Management Engineers. 535,088, Dec. 19; Serial No. 576,596, published Sept. 12, 1950.

CLASS 103

Construction engineering. F. H. McGraw and Company. 535,086, Dec. 19; Serial No. 569,924, published Sept. 12, 1950.
Rental of washing machines in self-service laundries, etc. Telecoin Corporation. 535,084, Dec. 19; Serial No. 558,179, published Sept. 12, 1950.
Services rendered to automobiles, trucks and other automotive vehicles. The Pure Oil Company. 535,081, Dec. 19; Serial No. 527,991, published Aug. 29, 1950.

CLASS 104

Radio program broadcasting services. Westinghouse Radio Stations, Inc. 535,083, Dec. 19; Serial No. 557,809, published Sept. 19, 1950.
Television news program broadcasting. WPIX, Inc. 535,085, Dec. 19; Serial No. 563,299, published Sept. 19, 1950.

CLASS 106

Fluid honing metal dies, tools and other products. J. R. Brakeman. 535,089, Dec. 19; Serial No. 578,762, published Sept. 12, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Concelman, Carl W.: *See*—
Eriksen, Kenneth, and Concelman.
Eriksen, Kenneth, and C. W. Concelman, Brookfield, Conn., assignors to Hazeltine Research, Inc., Chicago, Ill. Standoff insulator. Re. 23,310, Dec. 19.
Hazeltine Research, Inc., assignee: *See*—
Eriksen, Kenneth, and Concelman.
Phillips, Stephen G., Garden City, N. Y. Starting gate for harness horses. Re. 23,308, Dec. 19.
Weaver Engineering Co., assignee: *See*—
Weaver, Ira A.
Weaver, Ira A., Springfield, Ill., assignor to Weaver Engineering Co. Fluid actuated load lifting and lowering mechanism. Re. 23,309, Dec. 19.

LIST OF PLANT PATENTEES

Eddie, H. M., & Sons, Ltd., assignee: *See*—
Eddie, Henry M.
Eddie, Henry M., assignor to H. M. Eddie & Sons, Ltd., Vancouver, British Columbia, Canada. Rose plant. 1,000, Dec. 19.

LIST OF DESIGN PATENTEES

Affiliated Gas Equipment, Inc., assignee: *See*—
Greene, Harry R.
Allen, Robert Y.: *See*—
Shaw, Evan K., Melvin, and Allen.
Alvarez, Edward V., assignor to The Plas-Tex Corporation, Los Angeles, Calif. Plant protector. 161,231, Dec. 19.
Amity Leather Products Co., assignee: *See*—
Jeffery, David B.
Bailey, Robert B.: *See*—
Melcher, Abraham H., and Bailey.
Baker Ridgway, assignee: *See*—
Darr, Harold W.
Bell, William B. R., Dallas, Tex. Automobile emblem plate. 161,232, Dec. 19.
Berkowitz, Joseph, Kansas City, Mo. Game apparatus. 161,233, Dec. 19.
Bigelow, Charles A., Houston, Tex. Aircraft tire. 161,234, Dec. 19.
Bigelow, Charles A., Houston, Tex. Aircraft tire. 161,235, Dec. 19.
Billig, Ralph B.: *See*—
Ziskin, Manual S., and Billig.
Bissman, Carl A., Springfield, Mo. Rack for playing cards. 161,236, Dec. 19.
Boehnlein, Victor G., Oklahoma City, Okla. Sport shirt or the like. 161,237, Dec. 19.
Bonnytex Company, assignee: *See*—
Grabol, Michael.
Boucher, Marcel, Eltingville, N. Y. Brooch or similar article. 161,238, Dec. 19.
Boucher, Marcel, Eltingville, N. Y. Earring or similar article. 161,239, Dec. 19
Boucher, Marcel, Eltingville, N. Y. Earring or similar article. 161,240, Dec. 19.
Boucher, Marcel, Eltingville, N. Y. Earring or similar article. 161,241, Dec. 19.
Bourne, Douglas, Skaneateles, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,242, Dec. 19.
Bourne, Douglas, Skaneateles, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,243, Dec. 19.
Bourne, Douglas, Skaneateles, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,244, Dec. 19.
Budlong, Robert D.: *See*—
Jepson, Ivar, and Budlong.
Carrier, Robert A., Detroit, Mich. Television cabinet. 161,245, Dec. 19.
Casas Robert, Ramon, Geneva, assignor to Mefina S. A. Binningen, Switzerland. Sewing machine. 161,246, Dec. 19.
Channel Master Corporation, assignee: *See*—
Resnick, Joseph Y.
Chiniquy, Germain A., assignor to Lorine V. Gleason, doing business as John P. Gleason Mfg. Company, Los Angeles, Calif. Table mat or similar article. 161,247, Dec. 19.
Colson, U. O., Company, assignee: *See*—
Hagen, Kenneth R.
Consolidated Molded Products Corporation, assignee: *See*—
Jones, William T.
Darr, Edwin E., Garden City, N. Y. Game board. 161,248, Dec. 19.
Darr, Harold W., assignor to R. Baker, Minneapolis, Minn. Golf club carrier. 161,249, Dec. 19.
Delucchi, Attilio B., Daly City, Calif. Yarn holder. 161,250, Dec. 19.
Eades, Lucy F., Inspiration, Ariz. Doll head. 161,251, Dec. 19.
Femina, Felice D., assignor to V. La Rosa & Sons, Inc., Brooklyn, N. Y. Macaroni. 161,252, Dec. 19.
Finch, Leonard E.: *See*—
Kircher, Ralph N., and Finch.
Foster Grant Co., Inc., assignee: *See*—
Watkins, Joseph R.
Freeman, Antony P., San Francisco, Calif. Teapot or the like. 161,253, Dec. 19.
Friend, Ralph L., assignor to Ramode, Inc., Cleveland, Ohio. Awning. 161,254, Dec. 19.
Garvin, Richard H., Chicago, Ill., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,255, Dec. 19.
Gilmore, Burdette B., Pelham Manor, N. Y. Table lamp or similar article. 161,256, Dec. 19.
Gleason, John P., Mfg. Company: *See*—
Chiniquy, Germain A.
Gleason, Lorine V., assignee: *See*—
Chiniquy, Germain A.
Goodman, Mildred M., Scranton, Pa. Combination toothbrush and tube holder. 161,257, Dec. 19.
Grabol, Michael, assignor to The Bonnytex Company, New York, N. Y. Portable nursery shelf. 161,258, Dec. 19.
Greene, Harry R., Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Overhead radiant space heater or similar article. 161,259, Dec. 19.
Greene, Harry R., Pasadena, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Overhead radiant heater or similar article. 161,260, Dec. 19.
Greist Manufacturing Company, The, assignee: *See*—
Russell, Herbert H.
Hagen, Kenneth R., assignor to U. O. Colson Company, Paris, Ill. Combined scraper and coin holder. 161,261, Dec. 19.
Holohan, Bartholomew: *See*—
Pinkham, Clarence A., and Holohan.
Horn, William S., Fort Worth, Tex. Bedside cabinet commode. 161,262, Dec. 19.
Jansen, Peter F. D., Santa Monica, Calif. Musical practice timer. 161,263, Dec. 19.
Jeffery, David B., assignor to Amity Leather Products Co., West Bend, Wis. Combined billfold, coin purse, and cardcase. 161,264, Dec. 19.
Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Casing for toaster. 161,265, Dec. 19.

Jepson, Ivar, Oak Park, and R. D. Budlong, Skokie, assignors to Sunbeam Corporation, Chicago, Ill. Toaster. 161,266, Dec. 19.

Johnson, Benjamin A., Chicago, Ill. Miniature altar. 161,267, Dec. 19.

Jones, William T., assignor to Consolidated Molded Products Corporation, Scranton, Pa. Basket handle. 161,268, Dec. 19.

Karp, Paul, Los Angeles, Calif. Necktie. 161,269, Dec. 19.

Kircher, Ralph N., and L. E. Finch, assignors to West Bend Aluminum Co., West Bend, Wis. Food grinder. 161,270, Dec. 19.

Kromex Corporation, assignee: *See*—
Ziskin, Manuel S., and Billig.

La Rosa, V., & Sons, Inc., assignee: *See*—
Femina, Felice D.

Linneman, Richard, Atlanta, Ga. Fruit juice dispenser. 161,271, Dec. 19.

Marcel Boucher et Cie, assignee: *See*—
Semensohn, Raymonde.

McKaig, Charles H., Camillus, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,272, Dec. 19.

McKaig, Charles H., Camillus, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,273, Dec. 19.

McKaig, Charles H., Camillus, assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 161,274, Dec. 19.

Mefina S. A., assignee: *See*—
Casas Robert, Ramon.

Melcher, Abraham H., and R. B. Bailey, Los Angeles, Calif. Refreshment stand. 161,275, Dec. 19.

Metlox Manufacturing Company, assignee: *See*—
Shaw, Evan K., Melvin, and Allen.

Nelpin Manufacturing Co., Inc., assignee: *See*—
Pinkham, Clarence A., and Holohan.

Ofria, Thekla L., New Orleans, La. Scarf. 161,276, Dec. 19.

Ofria, Thekla L., New Orleans, La. Scarf. 161,277, Dec. 19.

Ofria, Thekla L., New Orleans, La. Scarf. 161,278, Dec. 19.

Onondaga Pottery Company, assignee: *See*—
Bourne, Douglas.
Garin, Richard H.
McKaig, Charles H.

Phillips, Manuel, San Jose, Calif. Hand adz. 161,279, Dec. 19.

Pinkham, Clarence A., Douglaston, and B. Holohan, Kew Gardens, assignors to Nelpin Manufacturing Co., Inc., Long Island City, N. Y. Needle threading device. 161,280, Dec. 19.

Plas-Tex Corporation, The, assignee: *See*—
Alvarez, Edward V.

Rabinovitz, Isadore, Philadelphia, Pa. Stocking. 161,281, Dec. 19.

Ramode, Inc., assignee: *See*—
Friend, Ralph L.

Resnick, Joseph Y., assignor to Channel Master Corporation, Ellenville, N. Y. Television receiving antenna. 161,282, Dec. 19.

Rogers, Stanley J., Churchill, Ohio. Golf tee. 161,283, Dec. 19.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Darning attachment for sewing machines. 161,284, Dec. 19.

Russell, Ralph R., Leicester, Mass. Card tray. 161,285, Dec. 19.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Earring or similar article. 161,286, Dec. 19.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Clip or similar article. 161,287, Dec. 19.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Earring or similar article. 161,288, Dec. 19.

Semensohn, Raymonde, assignor to Marcel Boucher et Cie., New York, N. Y. Earring or similar article. 161,289, Dec. 19.

Shapiro, Joseph, assignor to Uniersal Match Corporation, St. Joseph, Mo. Match book display stand. 161,290, Dec. 19.

Shaw, Evan K., Los Angeles, M. Shaw, Beverly Hills, and R. Y. Allen, Encino, assignors to Metlox Manufacturing Company, Manhattan Beach, Calif. Plate or similar article. 161,291, Dec. 19.

Shaw, Melvin: *See*—
Shaw, Evan K., and Melvin and Allen.

Silver, Isaac H., Dallas, Tex. Combined adjustable ash tray and cigarette holder. 161,292, Dec. 19.

Simoes, José, Jr., Sao Paulo, Brazil. Set of playing cards. 161,293, Dec. 19.

Sternaman, Chester J., Springfield, Ill. Electric lamp holder. 161,294, Dec. 19.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Törnström, Rolf, Nattrabyhamn, Sweden. Candle holder. 161,295, Dec. 19.

Tourneau, Henry K., New York, N. Y. Combined watch-case and bracelet. 161,296, Dec. 19.

Universal Match Corporation, assignee: *See*—
Shapiro, Joseph.

Watkins, Joseph R., Dover, N. J., assignor to Foster Grant Co., Inc., Leominster, Mass. Pair of spectacles. 161,297, Dec. 19.

West Bend Aluminum Co., assignee: *See*—
Kircher, Ralph N., and Finch.

Ziskin, Manuel S., University Heights, and R. B. Billig, Erieside, assignors to Kromex Corporation, Cleveland, Ohio. Ice bucket or the like. 161,298, Dec. 19.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A/S Lysesund Sildolje-& Kraftforfabrik, assignee: *See*—
Valen, Otto.

Aasted, Kai C. S., Gentofte, Copenhagen, Denmark. Conveyer. 2,534,692, Dec. 19.

Abbott Laboratories, assignee: *See*—
Fields, Mack R.

Abos, Ralph L., L. M. Stanfield, and R. B. Myers, Los Angeles, assignors to Revco Products, Whitier, Calif. Presser bar control for sewing machines. 2,534,651, Dec. 19.

Adams, Arthur R., assignor to Adams Rite Manufacturing Company, Glendale, Calif. Catch. 2,534,693, Dec. 19.

Adams Rite Manufacturing Company, assignee: *See*—
Adams, Arthur R.

Adams, William J., assignee: *See*—
Albright, John C.

Agresti, Vincent A., Rochelle Park, assignor to Howe Machinery Company, Inc., Passaic, N. J. Constant tension elongated material handling mechanism. 2,534,496, Dec. 19.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
De Eds, Floyd, and Booth.
Filachione, Edward M., Fein, and Fisher.
Hills, Claude H.
Krewson, Charles F., Naghski, and Porter.
Smith, Claude R.

Ahlstrand, Phillip M., Kenmore, N. Y., assignor to The Linde Air Products Company. Cold treating method and apparatus. 2,534,334, Dec. 19.

Aircraft-Marine Products Inc., assignee: *See*—
Freedom, Thomas C.

Air Reduction Company, Incorporated, assignee: *See*—
Deming, George M.
Deming, George M., and Gilroy.
Hooper, Harry.

Aktiebolaget Kamyr, assignee: *See*—
Vitalius, Josef V., and Klykken.

Albright, John C., assignor, by mesne assignments, to himself and W. J. Adams, Chicago, Ill. Motion transmitting device. 2,534,497, Dec. 19.

Alexander, Emmett L., assignor to The George E. Failing Supply Company, Enid, Okla. Pulldown device for rotary drilling apparatus. 2,534,213, Dec. 19.

Alfandre, Harry, assignee: *See*—
Loverch, Charles L.

Alkire, Elbern H., Easton, Pa. Pedal control for rheostats. 2,534,939, Dec. 19.

Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Method and apparatus for handling fine solids. 2,534,807, Dec. 19.

Allen, Philip S., Long Beach, Calif. Camera shutter and film actuating mechanism. 2,534,214, Dec. 19.

Allen-Sherman-Hoff Company, The, assignee: *See*—
Allen, Frank B.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Bond, Fred C.
Strauss, Orville L., and Wegner.

Allison, Adrian G., Lake Worth, Fla., and C. R. Austin, Columbus, assignors, by mesne assignments, to The Ferro Engineering Company, Cleveland, Ohio. Making composite refractory. 2,534,652, Dec. 19.

Almand, Joseph M.: *See*—
Holroyd, George C., and Almand.

Almond, Lathan C., Sr., Tucson, Ariz. Automatic repeating animal trap. 2,534,750, Dec. 19.

Ambrose, Edmund J., Maidenhead, D. J. Pacey, Purley, and J. G. Salmon, Heston, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Color filter. 2,534,846, Dec. 19.

American Bosch Corporation, assignee: *See*—
Hogeman, Hans.

American Can Company, assignee: *See*—
Birkland, Stellan.
Borkmann, Frank F.
Felber, John.

American Cyanamid Company, assignee: *See*—
Blann, William A.
Boothe, James H., and Waller.
Erickson, John G.
Ham, Garnet P., and Barnes.
Kropa, Edward L., and Barlow.
Stirn, Frank E.

American Steel and Wire Company of New Jersey, The, assignee: *See*—
Brickman, Alan E.
Kay, Charles M., and Witherspoon.

American Thermos Bottle Company, The, assignee: *See*—
Payson, Arthur H., and Darmstadt.

American Tobacco Company, The, assignee: *See*—
Dalton, John T.

American Viscose Corporation, assignee: *See*—
Chaya, John S., and Spann.
Richter, George A., Jr.

Anchor Manufacturing Company, assignee: *See*—
Johansson, Ernest G.

Ancona, Joe, assignee: *See*—
Goodheart, Jack.

Anderson, Carl A., assignee: *See*—
Cruikshank, Ross T.

Anderson, Clayton, & Co., assignee: *See*—
Fash, Ralph H.

Anderson, Emil S., Chicago, Ill. Auxiliary fuel tank for motor boats. 2,534,394, Dec. 19.

Andersson, Otto L.: *See*—
Ossbahr, Richard G., and Andersson.

Anger, Ernest G.: *See*—
Stanback, Harris I., and Anger.

Animal Trap Company of America, assignee: *See*—
Lehn, John U.

Anner, Georg: *See*—
Miescher, Karl, Heer, Billeter, and Anner.

Appleton, Richard L., assignor of one-third to H. U. Montgomery and one-third to E. L. Rowland, Akron, Ohio. Automatic starter unit. 2,535,007, Dec. 19.

Armstrong Cork Company, assignee: *See*—
Sharf, John M.

Arnold, Elvin D., Lima, Ohio. Wall guide. 2,534,940, Dec. 19.

Arnold, George B.: *See*—
Skelton, William E., and Arnold.

Arnold, George B., Glenham, and W. E. Skelton, Beacon, assignors to The Texas Company, New York, N. Y. Refining oil with a solvent. 2,534,383, Dec. 19.

Asdell, Bernard K.: *See*—
Barrett, William H., and Asdell.

Atwell, Harold V., Beacon, assignor to The Texas Company, New York, N. Y. Synthesis of hydrocarbons. 2,534,395, Dec. 19.

Auscher, Jean, Paris, France. Directional sound detector. 2,534,847, Dec. 19.

Austin, Bascom O., and O. C. Walley, Lima, Ohio, and D. W. Exner, Seattle, Wash., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Auxiliary power system for aircraft. 2,534,895, Dec. 19.

Austin, Chester R., *See*—
Allison, Adrian G., and Austin.

Austin, Chester R., and H. Z. Schofield Columbus, assignors, by mesne assignments, to The Ferro Engineering Company, Cleveland, Ohio. Making composite refractory. 2,534,653, Dec. 19.

Automatic Totalisators Limited, assignee: *See*—
Julius, Awdry F.

Automotive Products Company Limited, assignee: *See*—
Smith, William P., and Wilks.

B & R Manufacturing Company, The, assignee: *See*—
Bevington, Julius J., Jr., and Boros.

Babson Bros. Co., assignee: *See*—
Schilling, Lorell J.

Baker, Benjamin P.: *See*—
Ludwig, Leon R., and Baker.

Baldenhofer, William G., assignor to The Thompson Grinder Company, Springfield, Ohio. Method and apparatus for grinding. 2,534,941, Dec. 19.

Baltzly, Richard, and A. P. Phillips, New York, N. Y., and Lowell O. Randall, Nutley, N. J., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. N-phenethyl-beta-alanine derivatives. 2,534,567, Dec. 19.

Baratelli, Charles A., Boston, assignor to Polaroid Corporation, Cambridge, Mass. Ophthalmic device. 2,534,655, Dec. 19.

Barkeij, Jean A. H., Altadena, Calif. Semiautomatic gearshift transmission together with a combined fuel control element and manual gearshifter. 2,535,023, Dec. 19.

Barker, Maurice E., Washington, D. C., assignor to the United States of America as represented by the Secretary of War. Thermit ammunition. 2,534,215, Dec. 19.

Barling, Leslie C., Johannesburg, Transvaal, Union of South Africa. Outlet valve held open by flow. 2,534,942, Dec. 19.

Barlow, George W.: *See*—
Kropa, Edward L., and Barlow.

Barnes, Arthur, Waltham, assignor to Polaroid Corporation, Cambridge, Mass. Ultraviolet absorbing filter. 2,534,654, Dec. 19.

Barnes-Duluth Shipbuilding Company, assignee: *See*—
Branzell, Edward D.

Barnes, Robert B.: *See*—
Ham, Garnet P., and Barnes.

Barnes, Wallace A., Cleveland, Ohio, assignor to The Langenau Manufacturing Company. Fastening device comprising hook-and-eye elements. 2,534,396, Dec. 19.

Barnett, Lewis A., Asheville, N. C. Computing level. 2,534,216, Dec. 19.

Baron, Abraham L., assignor to S. B. Penick & Company, New York, N. Y. Fractionation of tyrothricin. 2,534,541, Dec. 19.

Barr & Stroud, Limited, assignee: *See*—
Strang, John M.

Barrett, William H., International Falls, Minn., and B. K. Asdell, Metuchen, N. J., assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn. Coating paper. 2,534,848, Dec. 19.

Barrows, Alford C., assignor to Economy Baler Company, Ann Arbor, Mich. Electrical control means for baling presses and the like. 2,534,751, Dec. 19.

Barth, Theodore H., New York, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Synchronizing bomb sight. 2,534,397, Dec. 19.

Bartleson, John D., East Cleveland, assignor to The Standard Oil Company, Cleveland, Ohio. Lubricant comprising reaction product of an olefin, a phosphorus sulfide, and water. 2,534,217, Dec. 19.

Beathan, Mark A., Queens Village, N. Y. Toy gun. 2,534,398, Dec. 19.

Beckberger, La Vern H., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Catalytic conversion of hydrocarbons. 2,534,752, Dec. 19.

Bedini, Nerino, R. Vesigna, and P. Giuliani, assignors to Pirelli Società Per Azioni, Milan, Italy. Submarine mask. 2,534,568, Dec. 19.

Behr-Manning Corporation, assignee: *See*—
Waterfield, Donald A.

Behr-Manning Corp., assignee: *See*—
Webber, Charles S., and Timmer.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bower, Justus H.
Bowne, Langford J.
Caroselli, Frank.
Craft, Clifford J., 3rd.
Fay, Clifford E., and Hale.
Fox, Arthur G.
Fritts, Morris.
Keller, Arthur C.
Meacham, Larned A.
Prince, Roy W., Jr.
Ring, Douglas H.
Ronci, Victor L.
Wadsworth, Paul W.
Walsh, Edward J.

Bellow, Abraham, and A. F. Carter, Leeds, England. Button feeding mechanism. 2,534,753, Dec. 19.

Belmont Radio Corporation, assignee: *See*—
Hall, Emery L.

Bemis Bro Bag Company, assignee: *See*—
Brady, Charles V., and Ottinger.

Bendix Aviation Corporation, assignee: *See*—
MacCallum, Alan M.
Miller, Donald J.
Siltamaki, Harold A.

Berger, Arthur J., New York, N. Y. Shock testing device. 2,534,218, Dec. 19.

Berger, Samuel L., Newark, N. J. Toy typewriter. 2,534,399, Dec. 19.

Bergeson, Stephen J., Palmer, Mass. Reciprocating device. 2,534,943, Dec. 19.

Berglund, Ralph M., assignor to Pacific American Fisheries, Inc., Bellingham, Wash. Fish boning device. 2,534,219, Dec. 19.

Berman, Louis, New York, N. Y. Garment pocket construction. 2,534,335, Dec. 19.

Bevington, Julius J., Jr., and E. Boros, assignors to The B & R Manufacturing Company, Toledo, Ohio. Suction cleaner. 2,534,808, Dec. 19.

Bielenberg, Raymond G., Berwyn, Ill., assignors, by mesne assignments, to The Hoover Company, North Canton, Ohio. Fluid actuated electric circuit control for suction cleaners. 2,534,400, Dec. 19.

Bigelow-Sanford Carpet Co., Inc., assignee: *See*—
Swanson, Stuart E.

Billeter, Jean-René: *See*—
Miescher, Karl, Heer, Billeter, and Anner.

Billings and Spencer Company, The, assignee: *See*—
Robichaud, Edmund J.

Birkland, Stellan, San Francisco, Calif., assignor to American Can Company, New York, N. Y. Machine for straightening can body flanges. 2,534,220, Dec. 19.

Bissey, Roland L., Bloomington, Ill., assignor to Eureka William Corporation, Detroit, Mich. Garbage disposal apparatus. 2,534,944, Dec. 19.

Black and Decker Manufacturing Company, The, assignee: *See*—
Wilhide, Glenn C.

Blaes Brothers, Inc., assignee: *See*—
Blaes, Edward G.

Blaes, Edward G., St. Albans, assignor to Blaes Brothers, Inc., New York, N. Y. Roller skate wheel. 2,534,401, Dec. 19.

Blain, Paul, assignor to Societe Anonyme des Acieries et Forges de Firminy, Paris, France. Device for the continuous measuring of the thickness of a band in the rolling. 2,534,849, Dec. 19.

Blair, Fletcher, Atlanta, Ga. Collapsible box. 2,534,402, Dec. 19.

Blake, Ivan C., Bristol, Wis., and J. B. Mullen, Barrington, assignors, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Primary cell. 2,534,403, Dec. 19.

Bland, James R., Eastport, Md., assignor to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,534,695, Dec. 19.

Blann, William A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Inversion of sucrose. 2,534,694, Dec. 19.

Blasig, Joseph, assignee: *See*—
Guiñez, Antonio.

Bodansky, John C., assignor to Cocker Machine & Foundry Company, Gastonia, N. C. Stop control mechanism. 2,534,896, Dec. 19.

Boden, Samuel H.: *See*—
Cumming, James M., and Boden.

Bolko, William, Washington, D. C. Rolling ball game apparatus. 2,534,404, Dec. 19.

Bombard, John J., assignee: *See*—
Veigel, Clarence J.

Bond, Fred C., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Grinding mill control. 2,534,656, Dec. 19.

Booth, Albert N.: *See*—
De Eds, Floyd, and Booth.

Booth, Samuel J., Cleveland, Ohio. Flashlight. 2,534,945, Dec. 19.

Boothe, James H., Pearl River, and C. W. Waller, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Oxadiazolopyrimidines and preparing the same. 2,534,897, Dec. 19.

Borg-Warner Corporation, assignee: *See*—
Reed, Harold V.

Borkmann, Frank F., Union, N. J., assignor to American Can Company, New York, N. Y. Conveyer mechanism for turning articles. 2,534,221, Des. 19.

Boros, Eugene: *See*—
Bevington, Julius J., Jr., and Boros.

Bossche, John V.: *See*—
Gee, Edwin A., and Bossche.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Recording instrument mechanism. 2,534,569, Dec. 19.

Bower, Justus H., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stand-by battery system. 2,534,542, Dec. 19.

Bower, Robert J.: *See*—
Young, John, Jr., and Bower.

Bowne, Langford J., Saugerties, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system having preset transmitter. 2,534,850, Dec. 19.

Bover, John L., Wilkinsburg, and W. E. Pakala, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control circuit. 2,534,754, Dec. 19.

Bradford, Arthur J., assignee: *See*—
Ditty, Allan V.

Bradley, Clifton H., Mansfield, Tex. Peanut harvester. 2,534,405, Dec. 19.

Bradley, Gene T., Maywood, Calif. Bow sight. 2,534,946, Dec. 19.

Brady, Charles V., and A. F. Ottinger assignors to Bemis Bro. Bag Company, St. Louis, Mo. Helically-seamed labeled fabric tubing. 2,534,755, Dec. 19.

Bramberry, Harry M., deceased, New Castle, Ind.; H. M. Bramberry, Jr., administrator, assignor to himself. Coated metal article and making the same. 2,534,406, Dec. 19.

Bramberry, Harry M., deceased, New Castle, Ind.; H. M. Bramberry, Jr., administrator, assignor to himself. Cooking utensil surface form and character. 2,534,407, Dec. 19.

Bramberry, Harry M., deceased, New Castle, Ind.; H. M. Bramberry, Jr., administrator, assignor to himself. Relieved and filled cylinder surface. 2,534,408, Dec. 19.

Bramberry, Harry M., Jr., assignee and administrator: *See*—
Bramberry, Harry M.

Bramletta, Andrew J., assignee: *See*—
Bullock, Jesse T.

Branzell, Edward D., Superior, Wis., assignor to Barnes-Duluth Shipbuilding Company, Duluth, Minn. Poster exhibiting device. 2,534,851, Dec. 19.

Brasch, Arno, Brooklyn, assignor, by mesne assignments, to Electronized Chemicals Corporation, New York, N. Y. Detoxifying poisonous compounds. 2,534,222, Dec. 19.

Braud, Harold M., San Francisco, Calif. Beverage cooling and dispensing system. 2,534,570, Dec. 19.

Bray, Ellis E., Cedar Hill, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Monochromator. 2,534,657, Dec. 19.

Bray, William R., Bryan, Tex. Automatic V belt transmission. 2,534,409, Dec. 19.

Brickman, Alan E., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Reinforcing plate for fence posts. 2,534,410, Dec. 19.

Bright, Elvin M., Milwaukee, Wis. Golf club head. 2,534,947, Dec. 19.

Bright, John, Oklahoma City, Okla. Wind-power machine. 2,534,411, Dec. 19.

Brinton, H., Co., assignee: *See*—
Epstein, Ruben.

Briskman, Samuel, assignee: *See*—
Sherr, Sava I.

British Celanese Limited, assignee: *See*—
Fisher, James W., and Wheatley.

Brooks, John W., Wenonah, and A. N. Sashanen, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition containing thienyl sulfides. 2,534,223, Dec. 19.

Broussard, Mayo, Los Angeles, Calif. Cap for collapsible tube dispensers. 2,534,498, Dec. 19.

Brown, Charles K., Jr., Fairmont, W. Va. Mixing and volume control faucet. 2,534,658, Dec. 19.

Brown, Charles L., Rockford, Ill. Crystal checking device. 2,534,224, Dec. 19.

Brown, George O., assignee: *See*—
Northquist, Clarence T.

Brown, Herbert C.: *See*—
Schlesinger, Hermann I., and Brown.

Brown, Leo H., Glenville, Conn. Computing sight. 2,534,225, Dec. 19.

Brown, Leonard G., administrator: *See*—
Deming, George M.
Deming, George M., and Gilroy.

Brown, Sam, Brooklyn, assignor to Sterling Drill Company, New York, N. Y. Masonry drill. 2,534,809, Dec. 19.

Bruestle, Carl O., Metuchen, assignor to Syncro Machine Company, Perth Amboy, N. J. Stranding machine. 2,534,696, Dec. 19.

Bruestle, Carl O., Rahway, N. J. Moisture ejector valve and system. 2,534,697, Dec. 19.

Brummer, Olin, Crete, and E. F. Heimbuch, Chicago Heights, Ill. Insert applying jig for molds. 2,534,948, Dec. 19.

Buchanan, William H., Catherham Valley, assignor to Cinema-Television Limited, London, England. Circuit for cathode-ray tubes and operating the same. 2,534,571, Dec. 19.

Bulke, Otto C.: *See*—
Burnett, Peter, and Bulke.

Bullock, Jesse T., Kansas City, Kans., assignor of one-third to A. J. Bramlette, Los Angeles, and one-third to W. R. Harriman, Hondo, Calif. Light concentrating reflector camera. 2,534,543, Dec. 19.

Burden, Emmett C., Lansing, Mich. Floating ottoman. 2,534,499, Dec. 19.

Burdett, Horace H., Milford, assignor to Draper Corporation, Hopedale, Mass. Ratchet mechanism. 2,534,572, Dec. 19.

Burgess Battery Company, assignee: *See*—
Blake, Ivan C., and Mullen.

Burkhardt, Robert E., and G. R. Purifoy, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Head-end power system for railway cars. 2,534,898, Dec. 19.

Burnam, Aletha K., assignee: *See*—
Prout, Elmer W.

Burnam, Ann, assignee: *See*—
Prout, Elmer W.

Burnam, John C., assignee: *See*—
Prout, Elmer W.

Burnam, Thompson W., assignee: *See*—
Prout, Elmer W.

Burnett, Peter, and O. C. Bulke, Tonawanda, N. Y. Foot massage apparatus. 2,534,412, Dec. 19.

Burress, John R., Arlington, Tex. Well activator. 2,534,949, Dec. 19.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Baltzly, Richard, Phillips, and Randall.

Bush, George L., Flushing, assignor to The Teleregister Corporation, New York, N. Y. Signal storage circuit. 2,534,544, Dec. 19.

Bush, Robert R.: *See*—
Donal, John S., Jr., Bush, and Cuccia.

Butterfield, Melvin D., and L. W. Mulling, Wichita, Kans. Axially collapsing type tire bead breaking device. 2,534,950, Dec. 19.

Butts, Alfred M., New York, N. Y. Structural units of gridlike construction providing supports for walls, floors, or the like. 2,534,852, Dec. 19.

Cahoon, Nelson C., Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Primary galvanic cell. 2,534,336, Dec. 19.

Calfee, John D., Manhasset, N. Y., and R. M. Thomas, Baton Rouge, La., assignors to Standard Oil Development Company. Polymerization of olefins in fluorinated diluent. 2,534,698, Dec. 19.

Calvert, Francis E., assignor to The Drackett Company, Cincinnati, Ohio. Preparing protein from vegetable sources. 2,534,226, Dec. 19.

Calvert, Francis E., assignor to The Drackett Company, Cincinnati, Ohio. Preparing protein from vegetable sources. 2,534,227, Dec. 19.

Calvert, Francis E., assignor to The Drackett Company, Cincinnati, Ohio. Producing substantially colorless proteins from oleaginous seed material. 2,534,228, Dec. 19.

Canfora, Arthur E., and L. A. Thomas, Brooklyn, N. Y., assignors to Radio Corporation of America. Synchronous telegraph system. 2,534,337, Dec. 19.

Cardona, Carlos J., North Hollywood, Calif. Tripod. 2,534,659, Dec. 19.

Cargill, Donald M., Derby, England. Universal electrical apparatus. 2,534,951, Dec. 19.

Carhart, Homer W., and J. A. Krynitsky, Washington, D. C. Method and apparatus for detecting hydrogen cyanide. 2,534,229, Dec. 19.

Carkeek, Charles R., Pasadena, Calif., assignor to The Texas Company, New York, N. Y. Cascade catalyst system. 2,534,853, Dec. 19.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Jantsch, Emil.

Caroselli, Frank, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic etching apparatus. 2,534,338, Dec. 19.

Carter, Arthur F.: *See*—
Bellow, Abraham, and Carter.

Casanova, Louis A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,534,899, Dec. 19.

Castedello, William, and W. G. Lohmeyer, Jr., assignors to The Kalart Company Inc., Stamford, Conn. Lock for detachable strap handles. 2,534,810, Dec. 19.

Celanese Corporation of America, assignee: *See*—
Noether, Herman D.

Cenis, Edward F., Spokane, Wash. Knockdown chair. 2,534,413, Dec. 19.

Chain Belt Company, assignee: *See*—
Hilkemeier, Louis G.

Chalmers, Leona W., New York, N. Y. Menstrual cup. 2,534,900, Dec. 19.

Champion Paper and Fibre Company, The, assignee: *See*—
Taylor, William P.

Chandler, Cossie D., Cincinnati, Ohio. Cutting tool. 2,534,230, Dec. 19.

Chatterton, Ernest E., assignor to D. Napier & Son Limited, London, England. Piston. 2,534,573, Dec. 19.

Chaya, John S., Springfield, and W. L. Spann, Boothwyn, Pa., assignors to American Viscose Corporation, Wilmington, Del. Warp-winding from cakes. 2,534,339, Dec. 19.

Chaya, John S., Springfield, and W. L. Spann, deceased, late of Concord Township, Delaware County, Pa., by M. L. Spann, executrix, Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del. Warp-winding from cakes. 2,534,340, Dec. 19.

Christian, Edward C., and J. C. Diehl, Philadelphia, Pa. Cam grinding device. 2,534,231, Dec. 19.

Ciba Limited, assignee: *See*—
Widmer, Willy, Heckendorn, and Mannhart.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, Heer, Billeter, and Anner.

Cinema-Television Limited, assignee: *See*—
Buchanan, William H.

Claesson, Per H. E., Jakobsberg, and I. W. Grundin, Stockholm, Sweden. Automatic switching arrangement. 2,534,500, Dec. 19.

Clapp, Richard G., Haverford, assignor to Philco Corporation, Philadelphia, Pa. Variable inductance device. 2,534,854, Dec. 19.

Cleare, Arthur B., Whitefish, Mont. Gate latch keeper. 2,534,414, Dec. 19.

Cleeton, Claud E., Washington, D. C. Trigger circuit and switching device. 2,534,232, Dec. 19.

Cleeton, Claud E., Washington, D. C. Electronic trigger and switch circuits. 2,534,233, Dec. 19.

Cleveland, Robert C., and W. H. Said, assignors to Corning Glass Works, Corning, N. Y. Casting glass. 2,534,415, Dec. 19.

Cline, Luther V., San Diego, Calif. Chair having spring supported back rest and seat. 2,534,574, Dec. 19.

Cocker Machine & Foundry Company, assignee: *See*—
Bodansky, John C.

Coeterier, Frederik, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device comprising an electric discharge tube for ultra high frequencies. 2,534,545, Dec. 19.

Coggeshall, Almy D.: *See*—
Scott, Benjamin B., Greene, and Coggeshall.

Coleman, Howard, Bay City, Mich. Vehicle body construction. 2,534,501, Dec. 19.

Collis, James A., Los Angeles, Calif. Stop pad for wind instruments. 2,534,660, Dec. 19.

Comer, Curtis G., assignor of one-half to F. A. Nells, Dayton, Ohio. Shelf bracket. 2,534,952, Dec. 19.

Compagnie des Forges et Acieries de la Marine et d'Homecourt, assignee: *See*—
Meley, Francois.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*—
Ortusi, Antoine J. and P.

Conley, Joseph T., and O. D. True, Minneapolis, Minn. Dolly for house trailers. 2,534,575, Dec. 19.

Continenza, Joseph, Stuart, Fla. Window display protector. 2,534,576, Dec. 19.

Cook, Francis L., assignee: *See—*
Delaney, John J.

Cordero, Luis S.: *See—*
Cordell, Lyon and L. S.

Cordell, Lyon, Venice, and L. S. Cordero, Inglewood, Calif. Dress form. 2,534,757, Dec. 19.

Corlett-Turner Co., assignee: *See—*
Corlett, Webster D., Jr.

Corlett, Webster D., Jr., assignor to Corlett-Turner Co., Chicago, Ill. Silent stock tubing. 2,534,811, Dec. 19.

Cornell, Ernest R., Niagara Falls, N. Y. Tube flexing pumping machine. 2,534,855, Dec. 19.

Corning Glass Works, assignee: *See—*
Cleveland, Robert C., and Said.

Corrado, Domenic R., Torrington, Conn. Glass breaking hand tool. 2,534,756, Dec. 19.

Courter, Richard J., Jewell, Kans. Animal exterminator. 2,534,699, Dec. 19.

Courtot, Louis B., assignor to The Weatherhead Company, Cleveland, Ohio. Valve. 2,534,577, Dec. 19.

Cox, George E., Charleston, W. Va. Electrocoating method. 2,534,234, Dec. 19.

Cox, Linvell A., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Temperature control apparatus. 2,534,416, Dec. 19.

Crabb, Silas F., Des Moines, Iowa. Vacuum cleaner. 2,534,578, Dec. 19.

Craft, Clifford J., 3rd, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cold cathode gas tube counting circuit. 2,534,856, Dec. 19.

Cranford Development Corporation, assignee: *See—*
Steinbach, Warner.

Crawford, Robert B. P., Kansas City, Mo. Solution concentrating apparatus. 2,535,008, Dec. 19.

Crewe Manufacturing & Tool Co., assignee: *See—*
Crewe, Samuel.

Crewe, Samuel, East Cleveland, assignor to Crewe Manufacturing & Tool Co., Cleveland, Ohio. Ratchet mechanism for caking guns. 2,534,857, Dec. 19.

Crews, Julia B., assignee: *See—*
Prout, Elmer W.

Crookston, Robert R., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Automatic weight control device. 2,534,700, Dec. 19.

Cross, Joseph A., Westerville, Ohio, assignor to Mojonnier Bros. Co. Removing oil from citrus fruit juices. 2,534,341, Dec. 19.

Croxall, Willard J., Bryn Athyn, and J. O. Van Hook, assignors to Rohm & Haas Company, Philadelphia, Pa. Producing esters of alkoxy carboxylic acids. 2,535,009, Dec. 19.

Croxall, Willard J., Bryn Athyn, and J. O. Van Hook, assignors to Rohm & Haas Company, Philadelphia, Pa. Transetherification of β-ether-substituted esters. 2,535,010, Dec. 19.

Croxall, Willard J., Bryn Athyn, and J. O. Van Hook, assignors to Rohm & Haas Company, Philadelphia, Pa. Formation of diether esters. 2,535,011, Dec. 19.

Croxall, Willard J., Bryn Athyn, and H. J. Schneider, assignors to Rohm & Haas, Philadelphia, Pa. Producing aldehydic acid ester acetals. 2,535,012, Dec. 19.

Cruikshank, Ross T., assignor of one-half to C. A. Anderson, Minneapolis, Minn. Power jack for pumps and the like. 2,534,428, Dec. 19.

Cuccia, Carmen L.: *See—*
Donal, John S., Jr., Bush, and Cuccia.

Cumming, James M., and S. H. Boden, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,534,901, Dec. 19.

Curry, John H., Viola, Mo. Watercraft. 2,534,812, Dec. 19.

Curry, Maurene D., Dallas, Tex. Electrical incinerator. 2,534,953, Dec. 19.

Curtiss-Wright Corporation, assignee: *See—*
Focht, Harry P.
Jenny, Robert W.
Moyer, Edward L.

Cushion Grip National, assignee: *See—*
Williams, Ivan A.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of dialkylaminoalkyl type antihistamine bases. 2,534,235, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of dialkylaminoalkyl o benzylphenyl ethers and the production thereof. 2,534,236, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of aminoalkyl phenothiazines and the production thereof. 2,534,237, Dec. 19.

Cusic, John W., Skokie assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of α-phenyl-α-2-pyridylalkyl dialkylaminoalkyl ethers and the production thereof. 2,534,238, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of diarylalkyamines and the production thereof. 2,534,239, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of N,N-dialkyl-N'-pyridyl-N'-phenylalkylenediamines and the production thereof. 2,534,240, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of N,N-dialkyl-N'-aryl-N'-thenyl-ethylenediamines. 2,534,241, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of 2-alkyl-9-phenyl-2,3,4,9-tetrahydro-1-pyrildindenes and the production thereof. 2,534,242, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of 1-aryl-1-pyridyl-3-dialkylaminoalkanes and the production thereof. 2,534,243, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of 2-(phenyl-benzyl-amino-methyl) imidazoline and the production thereof. 2,534,244, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of 8'-dialkylamino-methyl- 4,5,6-trihydroxybenzo- (1,2)- furan-1'-(3')-ones. 2,534,245, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of N,N-dialkyl-N'-arylmethyl-N'-pyrimidyl-alkylenediamines and preparing same. 2,534,246, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of 1-diarylmethyl-4-alkylpiperazine. 2,534,247, Dec. 19.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. 8-haloxanthine salts of cyclic-aminoalkyl benzohydryl ethers and the production thereof. 2,534,813, Dec. 19.

Cutler-Hammer, Inc., assignee: *See—*
Douglas, John F. H., Pell, and Seeger.

Cuttino, William H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic switching system. 2,534,902, Dec. 19.

Da-Lite Screen Company, Inc., assignee: *See—*
Heck, John T., Du Mais, and Talbot.

Dalton, John T., Durham, N. C., assignor to The American Tobacco Company, New York, N. Y. Cigarette turning device. 2,534,954, Dec. 19.

Daniel, Nathan I., Long Branch, N. J. Vibrato means for audioamplifiers. 2,534,342, Dec. 19.

Danielsen, August A., Rosedale, and A. P. Schleret, Babylon, assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Shock absorber and accelerator. 2,534,248, Dec. 19.

Dargis, Christopher C., Ridley Park, Pa. Musical instrument. 2,534,417, Dec. 19.

Darling, Elton R., Muncie, Ill., and W. E. C. Yelland, Washington, D. C., assignors to Lauhoff Grain Company, Danville, Ill. Making corn starch. 2,534,249, Dec. 19.

Darmstadt, Louis J.: *See—*
Payson, Arthur H., and Darmstadt.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for railway car trucks. 2,534,418, Dec. 19.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for railway car trucks. 2,534,419, Dec. 19.

Davis, George G., assignee: *See—*
Randolph, Frank D.

Dazley, Frederick C., Startford, Conn., assignor to General Electric Company. Lamp holder for circular lamps. 2,534,955, Dec. 19.

Dearborn Chemical Company, assignee: *See—*
Gunderson, Lewis O.

De Directie van de Staatsmijnen in Limburg, assignee: *See—*
Driessen, Maximiliaan G.

De Eds, Floyd, San Francisco, and A. N. Booth, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Isolating quercitrin. 2,534,250, Dec. 19.

Deere & Company, assignee: *See—*
Stueland, Harold M.
Walz, Claude W.

Deere Manufacturing Co., assignee: *See—*
Du Shane, Wallace H.

Degerfors Jarnverks Aktiebolag, assignee: *See—*
Eriksson, Edvard E.

Delaney, John J., Los Angeles, assignor of forty per cent to F. L. Cook, San Diego, Calif. Method and apparatus for testing nonmagnetic materials. 2,534,420, Dec. 19.

De Laval Separator Company, The, assignee: *See—*
Scott, Walter A.

Delvaux, Jean L., Paris, France, assignor to General Electric Company. Response curve indicator. 2,534,957, Dec. 19.

Deming, George M., deceased, Orange, N. J., by L. G. Brown, administrator, South Orange, N. J., assignor to Air Reduction Company, Incorporated. Method and apparatus for controlling torch spacing. 2,534,958, Dec. 19.

Deming, George M., deceased, Orange, N. J., by L. G. Brown, administrator, South Orange, and J. Gilroy, Westfield, N. J., assignors to Air Reduction Company, Incorporated. Oxygen regulator. 2,534,959, Dec. 19.

Dennis, George F., High Point, N. C. Rayon-yarn basing pad. 2,534,579, Dec. 19.

De Reamer, Frank C.: *See—*
Pistey, John M., and De Reamer.

Detroit Lubricator Company, assignee: *See—*
Dillman, Earnest J.

Detroit Stoker Company, assignee: *See—*
Sparks, Cedric H.

Dewey, Clarence L., Grand Rapids, Mich. Chair cover construction. 2,534,502, Dec. 19.

Diamond, Harry, New York, N. Y. Sewing machine for elastic seams. 2,534,701, Dec. 19.

Dictaphone Corporation, assignee: *See—*
Petruschell, Lucius P.
Roberts, Frederick W., and Yerkovich.

Diehl, John C.: *See—*
Christian, Edward C., and Diehl.

Dieker, Robert J., St. Louis, Mo. Vaporizer. 2,534,661, Dec. 19.

Diesel Power, Inc., assignee: *See—*
Thaheld, Fred. A.

Dietert, Harry W., and R. E. Steinmueller, assignors to Harry W. Dietert Company, Detroit, Mich. Impact molding machine. 2,534,421, Dec. 19.

Dietert, Harry W., Company, assignee: *See—*
Dietert, Harry W., and Steinmueller.

Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Automatic valve. 2,534,251, Dec. 19.

Ditto, Incorporated, assignee: *See—*
Genz, Herman A.

Ditty, Allan V., Grosse Pointe, Mich., assignor to A. J. Bradford. Moistening device for duplicating machines. 2,534,422, Dec. 19.

Ditty, Allan V., Grosse Pointe, Mich., assignor, by mesne assignments, to A. J. Bradford, Chicago, Ill. Foldable frame for screens. 2,534,960, Dec. 19.

Dodds, Maxwell P.: *See—*
Lawson, Robert H., and Dodds.

Dole Refrigerating Company, assignee: *See—*
Kleist, Herman W.

D'Ollier, George, Devon, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Production of asbesto-rubber compositions. 2,534,814, Dec. 19.

Donal, John S., Jr., R. R. Bush, and C. L. Cuccia, Princeton, N. J., assignors to Radio Corporation of America. Frequency-modulated magnetron microwave generator. 2,534,503, Dec. 19.

Douglas, John F. H., Milwaukee, E. Pell, Shorewood, and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Braking system for induction motors. 2,534,423, Dec. 19.

Dow Chemical Company, The, assignee: *See—*
Johnson, Julius E., Jr., and Mussell.

Doyle, Frank P.: *See—*
Kendall, John D., and Doyle.

Drackett Company, The, assignee: *See—*
Calvert, Francis E.

Draper Corporation, assignee: *See—*
Burdett, Horace H.

Driessen, Maximiliaan G., Brunssum, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Cyclone separator. 2,534,702, Dec. 19.

Dryden, Ernest, Toronto, Ontario, Canada. Hacksaw blade. 2,534,424, Dec. 19.

Dulli, Hermann G., Hamilton, Ohio. Cutting tool. 2,534,759, Dec. 19.

Du Mais, Leo J.: *See—*
Heck, John T., Du Mais, and Talbot.

Dunlap, Hobert M., assignor to The Sparks-Withington Company, Jackson, Mich. Two-temperature table top refrigerator. 2,534,546, Dec. 19.

Dunn, Henry, Detroit, Mich. Printing mask. 2,534,961, Dec. 19.

Dunn Woolen Company, assignee: *See—*
Wageley, Tevis R.

Du Pont, E. I., de Nemours & Company, assignee: *See—*
Glick, Charles F., and Nicholes.
MacDonald, Robert N.
Weaver, Clay.
Woodward, David W.

Duprie, Joseph W., assignee: *See—*
Meese, Derald E.

Du Shane, Wallace H., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Vehicle radiator grille assembly. 2,534,425, Dec. 19.

Eason, Clarence M., assignor to Industrial Clutch Corporation, Waukesha, Wis. Centrifugal clutch. 2,534,426, Dec. 19.

Eastman Kodak Company, assignee: *See—*
Moss, William R.
Pike, Merle E., and Lane.

Economy Baler Company, assignee: *See—*
Barrows, Alford C.

Edwards, Frank W., assignor to The Ohio Injector Company of Illinois, Chicago, Ill. Oiler device. 2,534,427, Dec. 19.

Edwards, Hayden, Columbus, Ohio. Reinforced building construction. 2,534,580, Dec. 19.

Eeman, Leon E., London, England. Chair and leg rest. 2,534,581, Dec. 19.

Elben, Jerome J., assignee: *See—*
Meese, Derald E.

Elch, Elizabeth A., administratrix: *See—*
Elch, Frank A., and Monfils.

Elch, Frank A., deceased, Melrose Mass.; by E. A. Elch, administratrix, Melrose, and N. A. Monfils, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel-breasting machine. 2,534,343, Dec. 19.

Eisler, Charles, South Orange, N. J. Machine for cracking and flaring blanks. 2,534,547, Dec. 19.

Eisler, Victor H.: *See—*
Fairbanks, Henry N., and Eisler.

Electric Auto-Lite Company, The, assignee: *See—*
Launder, James M.

Electric & Musical Industries Limited, assignee: *See—*
Ambrose, Edmund J., Pacey, and Salmon.

Electrolux Corporation, assignee: *See—*
Lofgren, Gustaf E.

Electronized Chemicals Corporation, assignee: *See—*
Brasch, Arno.

Ellilä, Karl L., Helsinki, Finland. Filtering apparatus. 2,534,760, Dec. 19.

Elliott, Bernard V., assignor to H. C. Price Co., Bartlesville, Okla. Pipe bending machine. 2,534,429, Dec. 19.

Elliott Company, assignee: *See—*
Roberts, Irving.

Elliott & Sons Limited, assignee: *See—*
Howe, Dennis J. T.

Ellis, Guy P., Lake Charles, La. Pipe cutter. 2,534,858, Dec. 19.

Ellner, Edwin: *See—*
Kahn, Leo M., and Ellner.

Emanuel, Benjamin D., Anderson, Ind. Storage battery. 2,534,582, Dec. 19.

Emmons, Neal L., Muskogee, Okla. Winch unit. 2,534,583, Dec. 19.

Engler, Max, assignor to The General Tire and Rubber Company, Akron, Ohio. Tube splicer. 2,534,252, Dec. 19.

Englund, Julius E., Fenton, Mich. Depth control for tractor-drawn implements. 2,534,761, Dec. 19.

Engstrom, Oscar L., New York, N. Y. Beverage dispensing apparatus. 2,534,504, Dec. 19.

Epstein, Hirsch, Chicago, Ill. Electrode structure for glow discharge tubes. 2,534,762, Dec. 19.

Epstein, Ruben, Brooklyn, N. Y., assignor to H. Brinton Co., Philadelphia, Pa. Latch opener. 2,534,584, Dec. 19.

Ergen, William K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Capacity pick-up follow-up system. 2,534,505, Dec. 19.

Erickson, John G., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing N-alkyl acrylamides. 2,534,585, Dec. 19.

Eriksson, Edvard E., assignor to Degerfors Jarnverks Aktieholag, Degerfors, Sweden. Wheel assembly. 2,534,586, Dec. vr.

Essick, Bryant, assignor to Essick Manufacturing Company, Los Angeles, Calif. Road roller. 2,534,506, Dec. 19.

Essick, Bryant, Long Beach, assignor to Essick Manufacturing Company, Los Angeles, Calif. Road roller construction. 2,534,507, Dec. 19.

Essick Manufacturing Company, assignee: *See—*
Essick, Bryant.

Etienne, Alfred, assignor to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Separating by liquefaction gaseous mixtures into their constituents. 2,534,903, Dec. 19.

Eureka, Williams, Corporation, assignee: *See—*
Bissey, Roland L.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,534,859, Dec. 19.

Ewart, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Quadruple 20 millimeter gun mount mechanism for controlling the aiming of a gun. 2,534,344, Dec. 19.

Exner, Donald W.: *See—*
Austin, Bascum O., Walley, and Exner.

Failing, George E., Supply Company, The, assignee: *See—*
Alexander, Emmett L.

Fairbanks, Henry N., Beverly Hills, and V. H. Eisler, Hollywood, assignors to Mitchell Camera Corporation, West Hollywood, Calif. Speed control. 2,534,430, Dec. 19.

Farrar, Arthur, Huntington, Ind., assignor to Kraft Foods Company. Cheese hoop holder for milk can washing machines. 2,534,345, Dec. 19.

Fash, Ralph H., Fort Worth, assignor, by mesne assignments, to Anderson, Clayton & Co., Houston, Tex. Refining apparatus. 2,534,253, Dec. 19.

Faust, Jacob: *See—*
Liberthson, Leo, and Faust.

Fay, Clifford E., Chatham, and D. A. S. Hale, Verona, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-power water-cooled electron discharge device. 2,534,548, Dec. 19.

Feero, Ruth H., Cumberland, Md. Knee saddle construction. 2,534,904, Dec. 19.

Fein, Martin L.: *See—*
Filachione, Edward M., Fein, and Fisher.

Felber, John, Hillside, N. J., assignor to American Can Company, New York, N. Y. Packing fluid substances in cans. 2,534,254, Dec. 19.

Fenelon, Earl S., Jr., Elroy, Wis., and E. C. Howard, assignors to Hercules Powder Company, Wilmington, Del. Dry resinate composition. 2,534,703, Dec. 19.

Fenney, William N., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Internal-combustion engine. 2,534,346, Dec. 19.

Ferriera, John, Providence, R. I. String tensioning means. 2,534,431, Dec. 19.

Ferris, Warren R., Kingston, N. J., assignor to Radio Corporation of America. Electron tube. 2,534,508, Dec. 19.

Ferro Engineering Company, The, assignee: *See*—
Allison, Adrian G., and Austin.
Austin, Chester R., and Schofield.

Fields, Mack R., Chicago, assignor to Abbott Laboratories, North Chicago, Ill. Carrier for capsules and the like. 2,534,815, Dec. 19.

Filachione, Edward M., Philadelphia, Pa., M. L. Fein, Riverside, N. J., and C. H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Hydroxy polyesters. 2,534,255, Dec. 19.

Finken, Walter S.: *See*—
Frieder, Leonard P., and Finken.

Fischer, William, United States Navy. Trailer unit. 2,534,256, Dec. 19.

Fish, Albert V., assignee: *See*—
Twist, Edward C.

Fisher, Bernard C., Jersey City, N. J. Compression relief for internal-combustion engines. 2,534,860, Dec. 19.

Fisher, Charles H.: *See*—
Filachione, Edward M., Fein, and Fisher.

Fisher, James W., and E. W. Wheatley, Spondon, near Derby, England, assignors to British Celanese Limited. Production of poly-sulfone amide polymers. 2,534,347, Dec. 19.

Fisher, Robert P., Los Angeles, and J. P. Geiger, Montrose, Calif. Massaging and stretching machine. 2,534,587, Dec. 19.

Flavin, Clarence B., Flint, Mich. Exterior-type sun visor. 2,534,763, Dec. 19.

Fletcher-Terry Company, The, assignee: *See*—
Judd, Chester K., Jr.

Flournoy, Algernon F., Shreveport, La., assignor, by decree of distribution, to M. T. Flournoy. Soldering iron. 2,534,257, Dec. 19.

Flournoy, Margaret T., assignee: *See*—
Flournoy, Algernon F.

Flowers, Robert: *See*—
Thompson, John I., and Flowers.

Flurscheim, Cedric H., Bowdon, England, assignor, by mesne assignments, to General Electric Company. Retractable undercarriage for aircraft. 2,534,962, Dec. 19.

Focht, Harry P., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Folding wing aileron control unit. 2,534,764, Dec. 19.

Fog Nozzle Company, assignee: *See*—
Prout, Elmer W.

Foltis, Anestis, Jackson Heights, assignor of one-quarter to Allan Panzer, New York, N. Y. Foldable safety razor with nonreplaceable blade. 2,534,861, Dec. 19.

Food Machinery and Chemical Corporation, assignee: *See*—
Wilbur, Paul C.

Fowler, Francis R., Ballston Lake, N. Y., assignor to General Electric Company. Nutation damper for gyroscopes. 2,534,963, Dec. 19.

Fox, Arthur G., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio ranging system with selective automatic volume control and range following. 2,534,862, Dec. 19.

Foxboro Company, The, assignee: *See*—
Bowditch, Hoel L.

Franck, George E., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Valve. 2,534,509, Dec. 19.

Franck, George E., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Unitary flaring tool. 2,534,510, Dec. 19.

Frank, Adolf, Long Beach, N. Y. Lady's decorated veil and making same. 2,534,511, Dec. 19.

Frank, Paul G., Allentown, Pa. Attachment for paint cans. 2,534,964, Dec. 19.

Frankel, Peter, Rego Park, assignor to Peter Morton Leisure Wear, Inc., New York, N. Y. Garment construction and making same. 2,534,863, Dec. 19.

Fraser, James, assignor to Speakman Company, Wilmington, Del. Adjustable spray shower head. 2,534,549, Dec. 19.

Fraser, Kenneth G., assignee: *See*—
Stillwagon, George B., Jr.

Frechtmann, Jean, Paris, France. Play toy. 2,534,550, Dec. 19.

Frederiksen, Harald, assignee: *See*—
Wacek, Anton.

Freedom, Thomas C., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Electrical connector. 2,535,013, Dec. 19.

Frese, Carl W.: *See*—
Heigis, Henry E., and Frese.

Frieder, Leonard P., Great Neck, and W. S. Finken, Brooklyn, N. Y.; said Finken assignor to said Frieder. Release apparatus for load supports. 2,534,704, Dec. 19.

Friedman, Alvin H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Distillation of fluorohydrocarbons. 2,534,905, Dec. 19.

Fritts, Morris, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Terminal strip for electrical interconnections. 2,534,864, Dec. 19.

Froom, Randall E., Glendale, Calif. Device for attaching propeller spinners. 2,534,662, Dec. 19.

Frost, Frederick H., Portland, Maine, assignor to S. D. Warren Company, Boston, Mass. Paper base planographic printing plate. 2,534,588, Dec. 19.

Frushour, Russel E., assignor to South Bend Lathe Works, South Bend, Ind. Tool turret. 2,534,432, Dec. 19.

Fuchs, Henry, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for railway car trucks. 2,534,433, Dec. 19.

Fulton, William T., Tacoma, Wash. Grapple. 2,534,512, Dec. 19.

Gaerttner, Erwin R., and M. L. Yeater, Schenectady, N. Y., assignors to General Electric Company. Filling valve. 2,534,965, Dec. 19.

Gallery, Daniel V., Jr., U. S. Navy. Gun sight. 2,534,258, Dec. 19.

Games, Thomas R.: *See*—
Katzen, Cyrus, and Games.

Gärdin, Erik G., assignee: *See*—
Ossbahr, Richard G., and Andersson.

Gebien, Willard J., Chicago, Ill. Fountain paintbrush with rotatable and yielding guide for striping. 2,534,589, Dec. 19.

Gee, Edwin A., Washington, D. C., and J. V. Bossche, Hyattsville, Md., assignors to the United States of America as represented by the Secretary of the Interior. Recovery of alcohol from a ternary solution. 2,534,259, Dec. 19.

Geiger, George M., and H. M. Purcell, Mount Gilead, Ohio, assignors to H-P-M Development Corporation, Wilmington, Del. Pressure-responsive reversing valve for hydraulic motors. 2,534,966, Dec. 19.

Geiger, John P.: *See*—
Fisher, Robert P., and Geiger.

Gendron, Elmer H., assignee: *See*—
Meese, Derald E.

General Bronze Corporation, assignee: *See*—
Danielsen, August A., and Schieret.

General Electric Company, assignee: *See*—
Dazley, Frederick C.
Delvaux, Jean L.
Flurscheim, Cedric H.
Fowler, Francis R.
Gaerttner, Erwin R., and Yeater.
Ipsen, Carl L., and Jones.
Jacobs, Stephen.
Lubahn, Jack D.
Moran, Don E., and Jarvis.
Pistey, John M., and De Reamer.
Reid, Ralph A.
Scott, Benjamin B., Greene, and Coggeshall.
Somerville, Gareth G.
Truesdell, Francis W.
Wendt, Harry C.
Willits, Glenn D.

General Mills, Inc., assignee: *See*—
Hakomaki, Raymond I.

General Sales Company of Cadillac, assignee: *See*—
Greeley, Leo O.

General Tire and Rubber Company The, assignee: *See*—
Engler, Max.

Genz, Herman A., Elmhurst, assignor to Ditto, Incorporated, Chicago, Ill. Liquid applicator for duplicating machines. 2,534,765, Dec. 19.

Gerhardt, Fred P., Milwaukee, Wis. Power unit. 2,534,590, Dec. 19.

Gerlach, Glendon T.: *See*—
Schmidt, Howard F., Gerlach, and Squiers.

Gerry, Everett D., New York, N. Y. Shoulder pad construction. 2,534,513, Dec. 19.

Gersten, Samuel B., Middle Village, assignor to Liberty Industries, Inc., Brooklyn, N. Y. Dispensing attachment for containers, including a reversible spout. 2,534,434, Dec. 19.

Gertz, Samuel, Jamaica, N. Y. Flush tank lever guide. 2,534,705, Dec. 19.

Geurian, Grady O., Bly, Oreg. Cutting section for chain saws. 2,534,591, Dec. 19.

Ghurye, Sudhish G., Chapel Hill, N. C. Clutch and brake control for automotive vehicles. 2,534,435, Dec. 19.

Gibson, Glenn D., Minneapolis, Minn. Double-action pump. 2,534,436, Dec. 19.

Gilliam, James S., Jr.: *See*—
Nevins, Samuel L., and Gilliam.

Gillig, Chester H., Oakland, Calif. Automobile window air deflector. 2,534,348, Dec. 19.

Gilroy, John: *See*—
Deming, George M., and Gilroy.

Ginzton, Edward L., Menlo Park, Calif., assignor, by mesne assignments, to The Sperry Corporation. Ultra high frequency transmission line system. 2,534,437, Dec. 19.

Girdwood-Blackett, Roirden B., Hubertstown, Guapo, Trinidad, British West Indies. Weighing automotive truck. 2,534,766, Dec. 19.

Gisondi, Emanuel, Washington, D. C. Fastening device. 2,534,663, Dec. 19.

Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Digitalis extraction. 2,534,260, Dec. 19.

Gittelson, Lester L., New York, N. Y. Dental mirror with replaceable reflector. 2,534,706, Dec. 19.

Giuliani, Pasquale: *See*—
Bedini, Nerino, Vesigna, and Giuliani.

Glick, Charles F. New Brunswick, N. J., and P. M. Nicholes, Rochester, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of photographic emulsions. 2,534,707, Dec. 19.

Goertzen, William S., Newton, Kans. Electric fishing line float. 2,534,709, Dec. 19.

Golian, Serge E., Washington, D. C., and R. M. Whitmer, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Buoy supported collapsible radar reflector. 2,534,710, Dec. 19.

Goodheart, Jack, Brooklyn, assignor of one-third to A. Shlefstein, New York, and one-third to J. Ancona, Brooklyn, N. Y. Device for dispensing material contained in collapsible receptacles. 2,534,708, Dec. 19.

Goodman, Joseph, Cambridge, Mass. Coat sleeve construction. 2,534,551, Dec. 19.

Goo Kim, John K., Jr., assignee: *See*—
Singer, Henry.

Gordon, Melvin J.: *See*—
Wilcher, Abrasha, and Gordon.

Gordon, Sadye Z., assignee: *See*—
Wilcher, Abrasha, and Gordon.

Gorham, John E., Spring Lake, and W. T. Silver, Belmar, N. J., assignors to the United States of America as represented by the Secretary of War. Line pulse modulator. 2,534,261, Dec. 19.

Gosselin, William O., Ashland, Wis. Cradle having a removable crib. 2,534,438, Dec. 19.

Gottlieb, Goldene: *See*—
Gottlieb, Louis, S. M., and Goldene.

Gottlieb, Louis, S. M., and G., Kansas City, Mo. Rectum fitting. 2,534,664, Dec. 19.

Gottlieb, Sam M.: *See*—
Gottlieb, Louis, S. M., and G.

Goumas, James, Perth Amboy, N. J. Television antenna. 2,534,592, Dec. 19.

Graham, Merle J.: *See*—
Miller, Fred J., and Graham.

Grandjean, Lou B., San Francisco, Calif. Shielded applicator. 2,534,439, Dec. 19.

Grangvist, Carl-Erik, assignor to Svenska Aktiebolaget Gasaccumulator, Lindingo, Sweden. Radio direction finder. 2,534,711, Dec. 19.

Gray, Alvin N., Joppa, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective seal for vulcanizing apparatus. 2,534,865, Dec. 19.

Gray, John W., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Apparatus for measuring air speed. 2,534,712, Dec. 19.

Greeley, Leo O., Wexford, assignor to General Sales Company of Cadillac, Cadillac, Mich. Lift tow hitch. 2,534,665, Dec. 19.

Greene, George F.: *See*—
Scott, Benjamin B., Greene, and Coggeshall.

Greiner, Charles A. and E. F., New Orleans, La. Severing the heads from the bodies of shrimp. 2,534,767, Dec. 19.

Greiner, Elbert F.: *See*—
Greiner, Charles A. and E. F.

Grissinger, George G., Wilkinsburg, J. Sandin, Forest Hills, and T. Lindstrom, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof circuit interrupter. 2,534,906, Dec. 19.

Grisso, Archa D., Fort Worth, Tex. Corn knife. 2,534,666, Dec. 19.

Groat, Lester S., Omaha, Nebr. Christmas tree support. 2,534,349, Dec. 19.

Grundin, Ivan W.: *See*—
Claesson, Per H. E., and Grundin.

Guggenheim, Max M., assignor to National Equipment Corporation, New York, N. Y. Conveying device. 2,534,667, Dec. 19.

Guiñes, Antonio, assignor of forty per cent to J. Blasig, New York, N. Y. Beam compass. 2,534,440, Dec. 19.

Gunderson, Lewis O., Park Ridge, assignor to Dearborn Chemical Company, Chicago, Ill. Method of and composition for inhibiting foaming in steam boilers. 2,534,441, Dec. 19.

Gunderson, Norman R., Pasadena, Calif. Automatic inverse feedback method and means for correcting response characteristic of phototube circuits. 2,534,668, Dec. 19.

Gussack, Nathan A., Flushing, N. Y. Guide for drawers or shelves. 2,534,350, Dec. 19.

Gutsche, Carl D.: *See*—
Johnson, William S., Petersen, and Gutsche.

H-P-M Development Corporation, assignee: *See*—
Geiger, George W., and Purcell.
Purcell, Howard M.

Haas, Glenn B., assignor to Star Sash Balance Corporation, Oak Harbor, Ohio. Spring sash balance. 2,534,968, Dec. 19.

Haber, Irving, assignee: *See*—
Vogel, Frank.

Hacklander, Hans, Linden, and C. P. Sweeny, Somerville, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Bonding machine. 2,534,593, Dec. 19.

Haecker, Edward T., Hope, Idaho. Axially shifting type hydraulic tire mounting and demounting device. 2,534,594, Dec. 19.

Hagen, Rudolf A., Chicago, Ill. Barrel bedding broach. 2,534,816, Dec. 19.

Hakomaki, Raymond I., Minneapolis, Minn., assignor to General Mills, Inc. Balloon load release. 2,534,866, Dec. 19.

Hale, Douglas A. S.: *See*—
Fay, Clifford E., and Hale.

Hall, Emery L., La Grange, assignor to Belmont Radio Corporation, Chicago, Ill. Television tuner. 2,534,768, Dec. 19.

Hall, Harvey C., Oakville, Ontario, Canada. Necktie. 2,534,669, Dec. 19.

Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Purifying hydrocarbon liquids. 2,534,907, Dec. 19.

Hamer, Leland S.: *See*—
Perry, Alois B., and Hamer.

Hamilton, Robert D., Altadena, Calif. Palm tree trunk trimmer. 2,534,595, Dec. 19.

Hamilton Watch Company, assignee: *See*—
Martin, Joseph S., Jr.

Hammon, William R., assignee: *See*—
Bullock, Jesse T.

Hampton, Robert H.: *See*—
Sebastian, David, Hampton, and Heggen.

Hankins, Elinor M., Keyport, N. J., assignor to Standard Oil Development Company. Asphalt wetting agents. 2,534,713, Dec. 19.

Hansen, Hans P., Bronx, N. Y. Safety device for firearms. 2,534,514, Dec. 19.

Hapman, Henry W., Detroit, Mich. Exercising stand for bicycles. 2,534,967, Dec. 19.

Harmon, Clarence O., Detroit, Mich. Apparatus for operating the gates or doors of elevators. 2,534,596, Dec. 19.

Harris-Seybold Company, assignee: *See*—
Harrold, Charles W.

Harrold, Charles W., University Heights, Ohio, assignor to Harris-Seybold Company. Ink fountain. 2,534,670, Dec. 19.

Harshaw Chemical Company, The, assignee: *See*—
Swinehart, Carl F.

Hart, Stephen V., New York, N. Y., assignor to Radio Corporation of America. Photoelectric motor control. 2,534,769, Dec. 19.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Oeeterier, Frederik.
Kramer, Jan.
Kronouer, Johan G., and van Kouwen.
Posthumus, Klaas.
Strutt, Maximiliaan J. O., van der Ziel, and Knol.
Van Beckum, Fredericus A.
Verwey, Evert J. W., and Stevels.

Harvey, Harry A., Niagara Falls, N. Y. Grain feeder for poultry. 2,534,442, Dec. 19.

Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Actuating means for throwout crank arms of sliding doors. 2,534,443, Dec. 19.

Haumann, George, Portland, Oreg. Bark removing lathe. 2,534,671, Dec. 19.

Haupt, Walter H.: *See*—
Pitts, Franklin A., and Haupt.

Hauser, Carl, Steffisburg, Switzerland. Surface working machine. 2,534,969, Dec. 19.

Hausman, George J., Cincinnati, Ohio, assignor to McGraw Electric Company. Connector. 2,534,970, Dec. 19.

Hearst, Maria, assignee: *See*—
Simpson, Joseph A.

Heck, John T., Elmhurst, L. J. Du Mais, and C. O. Talbot, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Portable projection picture screen support. 2,534,552, Dec. 19.

Heckendorn, Alphonse: *See*—
Widmer, Willy, Heckendorn, and Mannhart.

Hedberg, Aldrich R., Cleveland, Ohio, assignor of one-half to M. E. Lorentz. Work supporting device. 2,534,672, Dec. 19.

Hedden, John F., New York, N. Y. Hydraulic jet propulsion for ships. 2,534,817, Dec. 19.

Hedwall, Fredrick A., Sacramento, and E. Meyer, San Francisco, Calif. Automatic pet feeder. 2,534,444, Dec. 19.

Heer, Jules: *See*—
Miescher, Karl, Heer, Billeter, and Anner.

Heggen, Bernt J.: *See*—
Sebastian, David, Hampton, and Heggen.

Hegvold Woodcraft Co. Inc., assignee: *See*—
Peterson, Theodore P.

Heigis, Henry E., Nutley, N. J., and C. W. Frese, New York, N. Y., assignors to Specialties Development Corporation, Belleville, N. J. Fire extinguishing system. 2,534,262, Dec. 19.

Heimbuch, Elmer F.: *See*—
Brummer, Olin, and Heimbuch.

Henderson, Robert D., Cincinnati, Ohio. Circumferentially traveling support mounted, tire mounting apparatus. 2,534,515, Dec. 19.

Hennessey, Francis W., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Applying binding elements to cords. 2,534,867, Dec. 19.

Henriod, Paul, Vaud, Switzerland. Implement coupling. 2,534,971, Dec. 19.

Hercules Cycle and Motor Company Limited, The, assignee: *See*—
Yapp, Thomas A.

Hercules Powder Company, assignee: *See*—
Fenelon, Earl S., Jr., and Howard.
Hulse, George E.
Putnam, Stearns T.
Sheffield, Donald H.

Herschensohn, Arthur M., Scarsdale, N. Y. Hair net for bobbed hair styles. 2,534,351, Dec. 19.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Determining proportions in compositions of substances. 2,534,352, Dec. 19.

Heyworth, James E.: *See*—
Wilson, Herman W., and Heyworth.

Hilkemeier, Louis G., Greenfield, assignor to Chain Belt Company, Milwaukee, Wis. Water injection device for concrete mixers. 2,534,445, Dec. 19.

Hiller, Stanley, Jr., Menlo Park, and H. H. Sigler, San Carlos, assignors to United Helicopters, Inc., Palo Alto, Calif. Rotary wing aircraft. 2,534,353, Dec. 19.

Hills, Claude H., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Firming fruit and vegetable slices. 2,534,263, Dec. 19.

Hoeppner, Conrad H., Washington, D. C. Pulse width discriminator. 2,534,264, Dec. 19.

Hoffman, Ulysses G., Dayton, Ohio. Free air temperature indicator. 2,534,265, Dec. 19.

Hoffman, William P., Buffalo, N. Y. Wood conditioning process. 2,534,714, Dec. 19.

Hogeman, Hans, Longmeadow, assignor to American Bosch Corporation, Springfield, Mass. Fuel injection apparatus. 2,534,553, Dec. 19.

Holland, John W., Dayton, Ohio. Venetian blind slat. 2,534,673, Dec. 19.

Holly, George S., assignor, by mesne assignments, to Jensen Manufacturing Company, Chicago, Ill. Magnetic structure for speakers. 2,534,819, Dec. 19.

Holmes, Frank G., Philadelphia, Pa. Ball return means for pool tables. 2,534,770, Dec. 19.

Holroyd, George C., and J. M. Almand, Hogansville, Ga., assignors to United States Rubber Company, New York, N. Y. Finishing treatment for asbestos ironer roll covers. 2,534,818, Dec. 19.

Holzer, Tibor, Zurich, Switzerland. Manufacture of molded articles. 2,534,908, Dec. 19.

Hooper, Charles K., Linthicum Heights, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Voltage control system. 2,534,909, Dec. 19.

Hooper, Harry, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Apparatus for handling gases. 2,534,597, Dec. 19.

Hoover Company, The, assignee: *See*—
Bielenberg, Raymond G.
Sellers, William D.

Hopkins-Wyrick Laboratories, Inc., assignee: *See*—
Wyrick, Clayton E.

Horsley, Caperton B.: *See*—
Seavey, Gordon C., and Horsley.

Horton, William E., Highland Park, Calif., assignor to Lovans Enterprises, Inc., Las Vegas, Nev. Photoelectric web controlled sound reproducer. 2,534,715, Dec. 19.

Houdaille-Hershey Corporation, assignee: *See*—
Kasper, Arthur S.

Houghton, Daniel E., Washington, D. C., assignor, by mesne assignments, to New York Wire Cloth Company, York, Pa. Loom shuttle. 2,534,598, Dec. 19.

Houser, Harry P., Vinton, Iowa. Mechanical clothes drying appliance for domestic use. 2,534,771, Dec. 19.

Housh, C. N., assignee: *See*—
Robishaw, Alces P.

Howard, Arthur C., Leeds, England. Suspension system for tractors and like vehicles. 2,534,772, Dec. 19.

Howard, Edwin C.: *See*—
Fenelon, Earl S., Jr., and Howard.

Howard, Lewis F., Fort Worth, Tex. Locking device for nuts and bolts. 2,534,446, Dec. 19.

Howe, Dennis J. T., assignor to Elliott & Sons Limited, Barnet, England. Stabilized gelatino silver halide photographic emulsion. 2,534,599, Dec. 19.

Howe, John H., Denver, Colo. Power grain scoop unloader for vehicles. 2,534,266, Dec. 19.

Howe Machinery Company, Inc., assignee: *See*—
Agresti, Vincent A.

Howschultz, Erle E., Little Sioux, Iowa. Animal training device. 2,534,516, Dec. 19.

Hudspeth, Emmett L., Cambridge, and J. P. Nash, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Inflatable radar reflector buoy. 2,534,716, Dec. 19.

Hughes Tool Company, assignee: *See*—
Young, John, Jr., and Bower.

Hulse, George E., assignor to Hercules Powder Company, Wilmington, Del. Copolymers of isobutylene and an ester derived by esterifying abietyl alcohol and an α,β-ethylenically unsaturated carboxylic acid. 2,534,447, Dec. 19.

Hume, Wayne E., Hydro, Okla. Excavating machine. 2,534,972, Dec. 19.

Hurvitz, Hyman, Washington, D. C., assignor of one-half to Panoramic Radio Corporation, New York, N. Y., and one-half to M. Wallace, doing business as Panoramic Laboratories, East Port Chester, Conn. Radar azimuth and distance indication recorder. 2,534,820, Dec. 19.

Hutchings, Horace R., Purley, England. Dust filter. 2,534,600, Dec. 19.

Hutton, Paul C., Washington, D. C. Power-driven oscillating eraser. 2,534,773, Dec. 19.

Ifield, Richard J., assignor to Joseph Lucas Limited, Birmingham, England. Control means. 2,534,821, Dec. 19.

Ilford Limited, assignee: *See*—
Kendall, John D., and Doyle.
Kendall, John D., and Suggate.

Imperial Brass Manufacturing Company, The, assignee: *See*—
Franck, George E.

Industrial Clutch Corporation, assignee: *See*—
Eason, Clarence M.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Gee, Edwin A., and Bossche.

International Minerals & Chemical Corporation, assignee: *See*—
Shafor, Ralph W.

Ipsen, Carl L., Schenectady, and N. B. Jones, Ballston Lake, N. Y., assignors to General Electric Company. Cooling apparatus. 2,534,973, Dec. 19.

Jacob, Robert M., Ablon-sur-Seine, and J. Robert, assignors to Societe des Usines Chimiques Rhone Poulenc, Paris, France. Piperazine derivatives. 2,534,774, Dec. 19.

Jacobaeus, Anton C., assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Connecting device for telephone exchanges using a register. 2,534,822, Dec. 19.

Jacobs, Stephen, Fitchburg, Mass. assignor to General Electric Company. Pressure change amplifier for hydraulic governing systems. 2,534,974, Dec. 19.

Jacquard Knitting Machine Co., Inc., assignee: *See*—
Miller, Charles F.

Jantsch, Emil, Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation. Fluid-cooled tube for sighting a furnace pyrometer. 2,534,448, Dec. 19.

Jarvis, Samuel F.: *See*—
Moran, Don E., and Jarvis.

Jasco, Incorporated, assignee: *See*—
Smyers, William H.

Jason, Walter J., assignee: *See*—
Schmidt, Howard F., Gerlach, and Squiers.

Jennings, Lawrence D., and J. Naymik, Sharon, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thrust bearing. 2,534,910, Dec. 19.

Jenny, Robert W., East Paterson, assignor to Curtiss-Wright Corporation, Bloomfield, N. J. Overrunning rotary fluid coupling device. 2,534,517, Dec. 19.

Jensen Manufacturing Company, assignee: *See*—
Holly, George S.

Jensen, Willard H., Longview, Tex. Triangle calculator. 2,534,601, Dec. 19.

Jeppson, George N., assignor to Norton Company, Worcester, Mass. Electrically heated tunnel kiln. 2,534,518, Dec. 19.

Johansson, Ernest G., Belmont, assignor to Anchor Manufacturing Company, Boston, Mass. Reversible jaw for meter boxes and the like. 2,534,449, Dec. 19.

Johnson, Harry H., Brookline, Mass. Shoe with interlaced vamp elements. 2,534,975, Dec. 19.

Johnson, Julius E., Jr., Midland, and D. R. Mussell, Clare, assignors to The Dow Chemical Company, Midland, Mich. Diphenol compound composition for coccidiosis control. 2,535,014, Dec. 19.

Johnson, Julius E., Jr., Midland, and D. R. Mussell, Clare, assignors to The Dow Chemical Company, Midland, Mich. Diphenol compound composition for coccidiosis control. 2,535,015, Dec. 19.

Johnson, Lliah B., assignee: *See*—
Northquist, Clarence T.

Johnson, Oliver: *See*—
Newton, Amos S., and Johnson.

Johnson, William S., Madison, Wis., J. W. Petersen, Oakland, Calif., and C. D. Gutsche, St. Louis, Mo., assignors to Wisconsin Alumni Research Foundation, Madison, Wis. 1-keto-2-hydroxymethylene-7-or-1,2,3,4-tetrahydrophenanthrenes. 2,534,823, Dec. 19.

Johnston, William A., Stratford, assignor to Rolock, Incorporated, Fairfield, Conn. Hand truck with self-coupling hook. 2,534,868, Dec. 19.

Jones, Anna A., executrix, assignee: *See*—
Jones, Meredith.

Jones, Bonnie G., Williamsburg, Ky. Motor vehicle tire. 2,534,869, Dec. 19.

Jones, Meredith, deceased, Seattle, Wash.; A. A. Jones, executrix of said M. Jones, assignor to A. A. Jones. Gyroscopic navigational device. 2,534,824, Dec. 19.

Jones, Norman B.: *See*—
Ipsen, Carl L., and Jones.

Judd, Chester K., Jr., Bristol, assignor to The Fletcher-Terry Company, Forestville, Conn. Glass cutting board. 2,534,775, Dec. 19.

Julius, Awdry F., Sydney, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia. Totalizator registering means for "doubles" tickets. 2,534,602, Dec. 19.

Kadilak, Joseph R., Midland, Pa. Continuity tester. 2,534,450, Dec. 19.

Kahan, Theó, and A. Waché, assignors to Radio Industrie S. A., Paris, France. Directional aerial. 2,534,451, Dec. 19.

Kahn, George, New York, N. Y. Valance structure. 2,534,519, Dec. 19.

Kahn, Leo M., Island Park, N. Y. Washing machine cylinder balancing apparatus. 2,534,267, Dec. 19.

Kahn, Leo M., and E. Ellner, New York, N. Y.; said Ellner assignor to said Kahn. Washing machine cylinder balancing apparatus. 2,534,268, Dec. 19.

Kahn, Leo M., and E. Ellner, New York, N. Y.; said Ellner assignor to said Kahn. Automatic balancing system for cleaning machine cylinders. 2,534,269, Dec. 19.

Kahre, George F., Portland, Oreg. Fruit press. 2,534,554, Dec. 19.

Kalart Company Inc., The, assignee: *See*—
Castedello, William, and Lohmeyer.

Kantola, Carl F., Dumont, N. J. Water supplying and distributing means for locomotive tenders. 2,534,452, Dec. 19.

Kantola, Carl F., Dumont, N. J. Air venting and water overflow means for locomotive tenders. 2,534,453, Dec. 19.

Kasper, Arthur S, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Removing hydrogen embrittlement of bright nickel electrodeposits. 2,534,911, Dec. 19.

Kass, Samuel M., Philadelphia, Pa. Adapter. 2,534,912, Dec. 19.

Katcher, Morris, New York, N. Y. Magnetic fuel pump. 2,534,520, Dec. 19.

Katzen, Cyrus, and T. R. Games, Washington, D. C. Automatic X-ray film processing apparatus. 2,534,603, Dec. 19.

Katzen, Cyrus, and T. R. Games, Washington, D. C. Photo film processing apparatus. 2,534,604, Dec. 19.

Kaufmann Corporation, The, assignee: *See*—
Kaufmann, Harry A.

Kaufmann, Harry A., assignor to The Kaufmann Corporation, Detroit, Mich. Meeting rail latch. 2,534,605, Dec. 19.

Kawneer Company, The, assignee: *See*—
Miller, James T.

Kay, Charles M., Worcester, Mass., and J. C. Witherspoon, Monongahela, Pa., assignors to The American Steel and Wire Company of New Jersey. Operating open-hearth furnaces. 2,534,454, Dec. 19.

Kelleher, Cornelius F.: *See*—
Laher, Frank J., and Kelleher.

Keller, Arthur C., Bronxville, assignor to Belle Telephone Laboratories, Incorporated, New York, N. Y. Plug-in magnetic switch housing. 2,534,354, Dec. 19.

Kelley-Koett Manufacturing Company, The, assignee: *See*—
Pitts- Franklin A., and Haupt.
Sussin, David.

Kells, Edward L.: *See*—
Miller, Glen W., Kells, and Larsen.

Kelly, Downie M., Mrs., assignee: *See*—
McGee, Walter H.

Kemper, Maxwell F., Los Angeles, Calif. Apparatus for transporting materials. 2,534,270, Dec. 19.

Kendall, John D., and F. P. Doyle, assignors to Ilford Limited, Ilford, England. Cyanine dyestuffs and intermediates containing aldehyde. 2,534,913, Dec. 19.

Kendall, John D., and H. G. Suggate, assignors to Ilford Limited, Ilford, England. Triazole compounds. 2,534,914, Dec. 19.

Kent, Percy, Bag Co., Inc., assignee: *See*—
Peek, Richard K.

Kershaw, A., & Sons Limited, assignee: *See*—
Kershaw, Norman, and Ryder.

Kershaw, Knox: *See*—
Praytor, Dennis M., and Kershaw.

Kershaw, Norman, and H. Ryder, Leeds, assignors to A. Kershaw & Sons Limited, London, England. Binocular. 2,534,776, Dec. 19.

Kesner, Michael L., Chicago, Ill. Venetian blind tilt control means. 2,534,777, Dec. 19.

Keuffel & Esser Company, assignee: *See*—
Bland, James R.

Kidder, Clifford A., Detroit, Mich. Toy bomb. 2,534,976, Dec. 19.

Kienow, Orwald E., South Acton, assignor to Raytheon Manufacturing Company, Newton, Mass. Antenna system. 2,534,271, Dec. 19.

King, Benjamin M., Jr., assignor to Henry B. Walker, Jr., Evansville, Ind. Making porous concrete. 2,534,915, Dec. 19.

King, Edward, Dalton, Ga. Portable type tufting machine. 2,534,916, Dec. 19.

King, George E., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Synchronized hoist control for dredge draglines. 2,534,917, Dec. 19.

King, Louis A., Haddonfield, N. J., assignor to Radio Corporation of America. Oscillation generator. 2,534,521, Dec. 19.

Kiphart, Otta W.: *See*—
Webber, Ludwig A., and Kiphart.

Kirschstein, Julius, and C. C. J. Maffei, Brooklyn, N. Y., assignors to Windalume Corporation, West New York, N. J. Window. 2,534,355, Dec. 19.

Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Multitemperature refrigerator car. 2,534,272, Dec. 19.

Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Self-contained refrigerating freight car unit. 2,534,273, Dec. 19.

Kling, Fred E., Youngstown, Ohio. Swinging hot saw. 2,534,977, Dec. 19.

Klykken, Nils: *See*—
Vitalius, Josef V., and Klykken.

Kniel, Ludwig, Scarsdale, assignor to The Lummus Company, New York, N. Y. Fractional distillation. 2,534,274, Dec. 19.

Knol, Kornelis S.: *See*—
Strutt, Maximiliaan J. O., van der Ziel, and Knol.

Kolster, Frederick A., deceased, Washington, D. C.; M. Kolster, administratrix of said F. A. Kolster. Double superheterodyne radio receiver. 2,534,606, Dec. 19.

Kolster, Muriel, administratrix: *See*—
Kolster, Frederick A.

Koontz, Lamont B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Refrigerating control apparatus. 2,534,455, Dec. 19.

Kraft Foods Company, assignee: *See*—
Farrar, Arthur.

Kraft, Wheaton W., Scarsdale, assignor to The Lummus Company, New York, N. Y. Distillation. 2,534,870, Dec. 19.

Kramer, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric apparatus consisting of a support provided with a covering layer of poor conductivity. 2,534,356, Dec. 19.

Krewson, Charles F., J. Naghski, and W. L. Porter, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Refining rutin. 2,534,275, Dec. 19.

Kriegel, Harry F., Queens Village, N. Y. Record binder. 2,534,522, Dec. 19.

Kroft, Herbert M., Baltimore, and M. P. Vore, Catonsville, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for balancing rotors. 2,534,918, Dec. 19.

Kronouer, Johan G., and B. L. van Kouwen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Tube holder. 2,534,555, Dec. 19.

Kropa, Edward L., Old Greenwich, and G. W. Barlow, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Liquid coating compositions. 2,534,717, Dec. 19.

Krynitsky, John A.: *See*—
Carhart, Homer W., and Krynitsky.

Kudrikoff, Dimitry S., Scranton, Pa. Self-closing book-rack. 2,534,456, Dec. 19.

Kuhn, George F., Sinclair, Wyo., assignor to Sinclair Refining Company, New York, N. Y. Apparatus for the regeneration of catalyst for use in the conversion of hydrocarbons. 2,534,778, Dec. 19.

Kupjack, Eugene J.: *See*—
Ruiz, Alfonso J., and Kupjack.

Laher, Frank J., Orinda, and C. F. Kelleher, Huntington Park, assignors to Lasco Brake Products Corp., Oakland, Calif. Molded brake lining. 2,534,607, Dec. 19.

L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, assignee: *See*—
Etienne, Alfred.

Lancor, Joseph H., Jr., East Williston, N. Y., assignor to The Sperry Corporation. Vibration pickup device and system. 2,534,276, Dec. 19.

Lane, Everett W.: *See*—
Pike, Merle E., and Lane.

Lane, Guy M., and H. G. Thunder, assignors to Motor Products Corporation, Detroit, Mich. Variable friction pivot for ventilator panels. 2,534,779, Dec. 19.

Lang, Ivan R., Omaha, Nebr. Necktie retainer. 2,534,457, Dec. 19.

Lang, Murray, New York, N. Y. Meat-tenderizing machine. 2,534,357, Dec. 19.

Langenau Manufacturing Company, The, assignee: *See*—
Barnes, Wallace A.

Lapedes, Clarence S., Dayton, Ohio. Jacket with removable lining. 2,534,978, Dec. 19.

Larabee, Marshal H., Skaneateles, N. Y. Toy track connecting means. 2,534,458, Dec. 19.

Larsen, Delmar H.: *See*—
Miller, Glen W., Kells, and Larsen.

Lartz, George F., Suring, Wis. Photographic mounting corner. 2,534,919, Dec. 19.

Lasater, Newton A., Mulberry, Ark. Chicken feeder. 2,534,608, Dec. 19.

Lasco Brake Products Corp, assignee: *See*—
Laher, Frank J., and Kelleher.

Lauhoff Grain Company, assignee: *See*—
Darling, Elton R., and Yelland.

Launder, James M., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Detachable coupling. 2,535,016, Dec. 19.

Lawson, Robert H., Lakeport, assignor to Scott & Williams, Inc., Laconia, N. H. Strand feeding mechanism. 2,534,459, Dec. 19.

Lawson, Robert H., Lakeport, and M. P. Dodds, assignors to Scott & Williams, Incorporated, Laconia, N. H. Sinker control means for circular knitting machines. 2,534,460, Dec. 19.

Leas, William J., and W. D. Rose, Tulsa, Okla., assignors to Standard Oil Development Company. Reversible displacement cell. 2,534,718, Dec. 19.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Liquid flow meter for measuring a predetermined volume. 2,534,979, Dec. 19.

Lehn, John U., assignor to Animal Trap Company of America, Lititz, Pa. Choker trap. 2,534,358, Dec. 19.

Liberthson, Leo, Bronx, N. Y., and J. Faust, Belleville, N. J., assignors to L. Sonneborn Sons, Inc. Crystallization point depressants for DDT hydrocarbon solutions and fungicidal insecticides obtained thereby. 2,534,277, Dec. 19.

Liberthson, Leo, Bronx, N. Y., and J. Faust, Belleville, N. J., assignors to L. Sonneborn Sons, Inc. Crystallization point depressants for petroleum hydrocarbon solutions of paradichlordiphenyl trichloroethane. 2,534,278, Dec. 19.

Liberthson, Leo, New York, N. Y., assignor to L. Sonneborn Sons, Inc. Vapor detecting device for determining paintability of masonry surfaces. 2,534,279, Dec. 19.

Liberty Industries, Inc., assignee: *See*—
Gersten, Samuel B.

Lichtman, Joseph, Bronx, N. Y. Hydraulic brake check valve. 2,534,871, Dec. 19.

Linde Air Products Company, The, assignee: *See*—
Ahlstrand, Phillip M.
Meincke, Edward.
Moore, Charles R., and Villoresi.

Lindstrom, Ture: *See*—
Grissinger, George G., Sandin, and Lindstrom.

Linscott, Chester E.: *See*—
Rhines, Chester E., and Linscott.

Linscott, Chester E., Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y. Preservation of latex. 2,534,359, Dec. 19.

Lofgren, Gustaf E., Riverside, assignor to Electrolux Corporation, Old Greenwich, Conn. Vacuum cleaner. 2,534,280, Dec. 19.

Lohmeyer, Walter G., Jr.: *See*—
Castedello, William, and Lohmeyer.

Lohr, Raymond J., Erie, Pa. Screw holding screw driver. 2,534,719, Dec. 19.

Longenecker, Levi S., Mount Lebanon, Pa. Smelting furnace. 2,534,825, Dec. 19.

Loose, Winfield W., Washington, D. C., assignor to Willson Products, Inc., Reading, Pa. Respirator. 2,534,720, Dec. 19.

Lorentz, Melvin E., assignee: *See*—
Hedberg, Aldrich R.

Lorenz, Otto A., and H. W. Yarnell, assignors to Teletype Corporation, Chicago, Ill. Line feed release mechanism. 2,534,461, Dec. 19.

Lovmas Enterprises, Inc., assignee: *See*—
Horton, William E.

Lovenheim, Andrew S.: *See*—
Lovenheim, Clifford N. and A. S.

Lovenheim, Clifford N. and A. S., assignors to Rosco Mfg. Co., Rochester, N. Y. Work feeding means for presses. 2,534,780, Dec. 19.

Loverch, Charles L., Brooklyn, assignor to H. Alfandre, New York, N. Y. Machine for perforating a tape, feeding it, and attaching snap fasteners thereto. 2,534,360, Dec. 19.

Lubahn, Jack D., Schenectady, N. Y., assignor to General Electric Company. Tensile testing apparatus. 2,534,980, Dec. 19.

Lucas, Joseph, Limited, assignee: *See*—
Ifield, Richard J.

Ludwig, Leon B., Wilkinsburg, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,534,920, Dec. 19.

Ludwig, Louis, Brooklyn, N. Y. Fixture for fluorescent lamps. 2,534,361, Dec. 19.

Lumbard, Henry G., Auburn, Maine. Cushion insole. 2,534,462, Dec. 19.

Lummus Company, The, assignee: *See*—
Kniel, Ludwig.
Kraft, Wheaton W.

Luna, Jose L., Houston, Tex. Presser foot for sewing machines. 2,534,281, Dec. 19.

Lupo, Joseph, Mount Vernon, N. Y. Abrasie carrier for processing articles. 2,534,282, Dec. 19.

Lyman, Kenneth E., Lake Forest, assignor to Tucker Corporation, Chicago, Ill. Automobile dome light. 2,534,921, Dec. 19.

Maag, Jack, assignee, trustee and executor: *See*—
Maitzen, Alfonse G.

MacCallum, Alan M., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Gyroscope position indicating device. 2,534,463, Dec. 19.

MacDonald, Robert N., New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Acid initiation of amino acid N-carboanhydride condensation. 2,534,283, Dec. 19.

MacFarland Manufacturing Corporation, assignee: *See*—
McFarland, Artie F.

Machlett Laboratories Incorporated, assignee: *See*—
Warner, John G.

MacMahon, James D., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Stable lithium hypochlorite composition. 2,534,781, Dec. 19.

Maddux, Duane C., Burbank, Calif. Dispensing machine for ice cream and sherbets. 2,534,782, Dec. 19.

Maffei, Carmine C. J.: *See*—
Kirschstein, Julius, and Maffei.

Magill, Rawland R., Chicago, Ill. Coagulant and clarifying turbid water therewith. 2,534,284, Dec. 19.

Magnuson, Roy M., Campbell, Calif. Article orienting apparatus. 2,534,362, Dec. 19.

Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of pyridine derivatives. 2,534,285, Dec. 19.

Mahoney, Thomas P., assignee: *See*—
Schmidt, Howard F., Gerlach, and Squiers.

Maitzen, Alfonse G., deceased, Park Ridge, Ill.; W. and R. Maitzen and J. Maag, executors of A. G. Maitzen, assignors to W. and R. Maitzen and J. Maag, as trustees. Centrifugal extractor cover. 2,534,286, Dec. 19.

Maitzen, Richard, assignee, trustee and executor: *See*—
Maitzen, Alfonse G.

Maitzen, Winonah, assignee, trustee and executor: *See*—
Maitzen, Alfonse G.

Malmquist, Nils G. A., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Resilient connection. 2,534,981, Dec. 19.

Manchester Hosiery Mills, assignee: *See*—
Wilcher, Abrasha, and Gordon.

Mann, Cecil E., Pontiac, Mich. Mechanical duck. 2,534,609, Dec. 19.

Mannhart, Emil: *See*—
Widmer, Willy, Heckendorn, and Mannhart.

Manning, Maxwell & Moore, Inc., assignee: *See*—
Moore, George E.

Marcy, Henry O., 3rd, Park Ridge, assignor to The Rauland Corporation, Chicago, Ill. Apparatus for televising data on a plan position indicator tube. 2,534,610, Dec. 19.

Marini, Thomas O., Audubon, N. J. Door operated atomizing device. 2,534,465, Dec. 19.

Marini, Thomas O., Audubon, and L. Onorato, Oaklyn, N. J.; said Onorato assignor to said Marini. Door operated atomizing device. 2,534,464, Dec. 19.

Marogg, Richard, Hastings on Hudson, N. Y. Safety latch adapted for handbags and the like. 2,534,783, Dec. 19.

Marsh, Lynn W., Jr., U. S. Army, Arlington County, Va. Electronic control apparatus. 2,534,287, Dec. 19.

Marshall, Fitz-Hugh B., Glenshaw, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Broad beam radiation detector, using ultraviolet as an intermediate step. 2,534,922, Dec. 19.

Marshall, Lillian M., Scarsdale, N. Y. Brassière. 2,534,721, Dec. 19.

Martin, Homer Z.: *See*—
Nelson, Karl J., and Martin.

Martin, Joseph S., Jr., assignor to Hamilton Watch Company, Lancaster, Pa. Watch oil. 2,534,611, Dec. 19.

Mathes, Richard E.: *See*—
Smith, J. Ernest, and Mathes.

Mathieson Chemical Corporation, assignee: *See*—
MacMahon, James D.
Nevins, Samuel L., and Gilliam.

Maxwell, John D., Glen Head, assignor to Powers Photo Engraving Company, Glen Cove, N. Y. Photomechanical printing frame. 2,534,784, Dec. 19.

Mayer, Samuel, assignor of one-half to I. Stern, Bronx, N. Y. Vertically adjustable curtain hanging device. 2,534,785, Dec. 19.

Mayes, Arthur, Maplewood, N. J. Drying and polishing mitt. 2,534,982, Dec. 19.

McCormick, John M., assignor to F. W. Preston, Butler, Pa. Apparatus for shaping structural glass. 2,534,523, Dec. 19.

McElhaney, Edward D., and F. N. Michehl, Dunkirk, N. Y. Welder's inspection light. 2,534,786, Dec. 19.

McFarland, Artie F., assignor to MacFarland Manufacturing Corporation, Houston, Tex. Fluid powered washing machine. 2,534,674, Dec. 19.

McGee, Walter H., Jefferson City, Mo., assignor of one-half to Mrs. D. M. Kelly, Kensington, Md. Convertible seat structure for automobiles. 2,534,612, Dec. 19.

McGraw Electric Company, assignee: *See*—
Hausman, George J.

McKinnon, Ronald J., Bedford Hills, N. Y. Vacuum steam heating system and operating the same. 2,534,826, Dec. 19.

McTammany, Elizabeth L., Spartanburg, S. C. Doll dress. 2,534,827, Dec. 19.

Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse producing apparatus. 2,534,872, Dec. 19.

Mecca, Sebastian B., Fox Chase Manor, assignor to Schuylkill Chemical Company, Philadelphia, Pa. Composition for the treatment of plants and using same. 2,534,787, Dec. 19.

Meese, Derald E., assignor of twenty-five per cent to J. W. Duprie, twenty-five per cent to E. H. Gendron, and twenty-five per cent to J. J. Elben, Spokane, Wash. Pipe coupling. 2,534,723, Dec. 19.

Meiklejohn, Thomas W., Jr., Fond du Lac, and S. J. Wittman, Oshkosh, Wis. Wheel suspension. 2,534,722, Dec. 19.

Meincke, Edward, Scotch Plains, N. J., assignor to The Linde Air Products Company. Blowpipe apparatus. 2,534,363, Dec. 19.

Meley, François, Saint-Martin en Coailleux, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Apparatus for forging parts showing important variations in their cross section. 2,534,613, Dec. 19.

Menger, Francis B., Lancaster Township, Lancaster County, Pa. Electrical relay. 2,534,873, Dec. 19.

Merriam, Charles W., Jr., Taunton, Mass. Maneuvering board attachment. 2,534,288, Dec. 19.

Mettler, George, North Bergen, N. J. Refrigerant expansion device. 2,534,874, Dec. 19.

Meyer, Emil: *See*—
Hedwall, Frederick A., and Meyer.

Michael, Bernice M., Los Angeles, Calif. Weaning cup. 2,534,614, Dec. 19.

Michehl, Frederick N.: *See*—
McElhaney, Edward D., and Michehl.

Michell, Anthony G. M., and A. J. Seggel, Melbourne, Victoria, Australia. Bearing. 2,534,788, Dec. 19.

Micher, Walter W., Mineola, N. Y., assignor to The Sperry Corporation. Wave guide impedance matching section. 2,534,289, Dec. 19.

Miescher, Karl, Riehen, J. Heer, Binningen, J. Billeter, and G. Anner, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Octahydrophenanthrene-2-carboxylic acids and derivatives thereof. 2,534,466, Dec. 19.

Miller, Alexander, Providence, R. I. Trouble light construction. 2,534,875, Dec. 19.

Miller, Charles F., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Controller. 2,534,724, Dec. 19.

Miller, Donald L., Elmira, N. Y., assignor to Bendix Aviation Corporation. Starter gearing for internal-combustion engines. 2,535,017, Dec. 19.

Miller, Fred J., and M. J. Graham, Dickinson, N. Dak. Radiator testing device. 2,534,615, Dec. 19.

Miller, Glen W., Covina, E. L. Kells, Alhambra, and D. H. Larsen, West Hollywood, Calif. Absorption refrigeration. 2,534,789, Dec. 19.

Miller, Gustave L., Geneseo, Ill. Tractor tread for disintegrating cornstalks. 2,534,675, Dec. 19.

Miller, James T., assignor to The Kawneer Company, Niles, Mich. Sign letter. 2,534,467, Dec. 19.

Miller, Stewart M., Westfield, N. J. Electrodynamic pick-up hearing U-shaped coil holder. 2,534,725, Dec. 19.

Milligan, Fletcher F., Cleveland, Ohio. Collet with work grippers. 2,534,616, Dec. 19.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.
Fuchs, Henry.
Haseltine, Stacy B.

Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Wells, Frank H.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Cox, Linvell A.
Ergen, William K.
Koontz, Lamont B.

Minnesota and Ontario Paper Company, assignee: *See*—
Barrett, William H., and Asdell.

Mitchell Camera Corporation, assignee: *See*—
Fairbanks, Henry N., and Eisler.

Mitchell Canneries, Inc., assignee: *See*—
Thompson, John L., and Flowers.

Mitchell, James C., Norfolk, Va., assignor of one-half to R. B. Mitchell, Detroit, Mich. Table baseball game. 2,534,468, Dec. 19.

Mitchell, Lloyd J., Berkeley, and H. J. Sommer, La Fayette, assignors to Shell Development Company, San Francisco, Calif. Asphalt bituminous bonding composition and preparation. 2,534,828, Dec. 19.

Mitchell, Richard B., assignee: *See*—
Mitchell, James C.

Moeller, George J., Altadena, assignor to A. Oberholtz, Los Angeles, Calif. Safety damper preventing heat emanation from abnormal positioned heaters. 2,534,556, Dec. 19.

Mohrman, Harold W., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Laminated product. 2,534,617, Dec. 19.

Mojonnier Bros. Co., assignee: *See*—
Cross, Joseph A.

Moll, Oswin C., Manhasset, N. Y. List printing apparatus. 2,534,364, Dec. 19.

Molloy, James F., Oakland, Calif. Fluid operated toilet flusher. 2,534,524, Dec. 19.

Molloy, James F., Oakland, Calif. Closure operator. 2,534,525, Dec. 19.

Monfils, Napoleon A.: *See*—
Eich, Frank A., and Monfils.

Monsanto Chemical Company, assignee: *See*—
Mohrman, Harold W.
Stephan, John T.
Vincent, Shirley M.
Walter, Henry A.

Montgomery, Homer U., assignee: *See*—
Appleton, Richard L.

Mooney, Gerald F., Lansing, Iowa. Attachment for internal-combustion engines. 2,534,983, Dec. 19.

Moore, Charles R., Mendham, and J. Villoresi, Lincoln Park, N. J., assignors to The Linde Air Products Company. Binozzle gouging torch and method. 2,534,365, Dec. 19.

Moore, Charlie A., Victoria, Tex. Bait retaining fishhook. 2,534,469, Dec. 19.

Moore, George E., assignor to Manning, Maxwell & Moore, Inc., Muskegon Heights, Mich. Power-operated two-speed hoist. 2,534,726, Dec. 19.

Moore, James B., Jr., Lexington, Ky. Apparatus for curing of tobacco. 2,534,618, Dec. 19.

Moore, John C., Bolivar, N. Y. Fishhook releaser. 2,534,790, Dec. 19.

Moorman Manufacturing Company, assignee: *See*—
Sturdy, Robert A.

Moran, Don E., and S. F. Jarvis, Schenectady, N. Y., assignors to General Electric Company. Rod brake. 2,534,984, Dec. 19.

Morton, Peter, Leisure Wear, Inc., assignee: *See*—
Frankel, Peter.

Moskowitz, Samuel, Bronx, N. Y. Toilet paper container. 2,534,290, Dec. 19.

Moss, William R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Forming thermoplastic sheeting. 2,534,291, Dec. 19.

Motor Products Corporation, assignee: *See*—
Lane, Guy M., and Thunder.

Moyer, Edward L., Reynoldsburg, Ohio, assignor to Curtiss-Wright Corporation. Temperature compensated control rod. 2,534,791, Dec. 19.

Moyle, John R., Butte, Mont. Dog training harness. 2,534,727, Dec. 19.

Mueller, Otto, Dearborn, Mich. Hydraulic punch and stripper. 2,534,292, Dec. 19.

Mullen, John B.: *See*—
Blake, Ivan C., and Mullen.

Mullins, Lloyd W.: *See*—
Butterfield, Melvin D., and Mullins.

Murdock, David, Cincinnati, Ohio. Electrode holder. 2,534,526, Dec. 19.

Murphy, Martin, Davenport, Iowa. Attachment fixture for saw grinding. 2,534,470, Dec. 19.

Mussell, Dorsey R.: *See*—
Johnson, Julius E., Jr., and Mussell.

Myers, Herman A., Whittier, Calif. Work holder. 2,534,527, Dec. 19.

Myers, Robert B.: *See*—
Abos, Ralph H., Stanfield, and Myers.

N. V. Chemische Industrie "Rids," assignee: *See*—
Obermann, Anton P. R. and R. W. H.

Nagel, Fritz J., Oakland, and B. C. Nash, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermoset laminated member. 2,534,923.

Naghski, Joseph: *See*—
Krewson, Charles F., Naghski, and Porter.

Napier, D., & Son Limited, assignee: *See*—
Chatterton, Ernest E.

Napier, Maurice A., Akron, Ohio. Lever and link feed sliding jaw wrench. 2,534,985, Dec. 19.

Nash, Bruce C.: *See*—
Nagel, Fritz J., and Nash.

Nash, John P.: *See*—
Hudspeth, Emmett L., and Nash.

National Equipment Corporation, assignee: *See*—
Guggenheim, Max M.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Barth, Theodore H.
Gollan, Serge E., and Whitmer.
Gray, John W.
Hudspeth, Emmett L., and Nash.
Wardwell, George W., Jr.

Naymik, Joseph: *See*—
Jennings, Lawrence D., and Naymik.

Nelsewander, Ray H., assignee: *See*—
Veigel, Clarence J.

Nelis, Frank A., assignee: *See*—
Comer, Curtis G.

Nelson, Karl J., Cranford, and H. Z. Martin, Roselle, N. J., assignors to Standard Oil Development Company. Carbonization of coal in a fluidized bed. 2,534,728, Dec. 19.

Nevins, Samuel L., Little Rock, Ark., and J. S. Gilliam, Jr., Shreveport, La., assignors, by mesne assignments, to Mathieson Chemical Corporation, New York, N. Y. Reaction furnace and recovery units. 2,534,792, Dec. 19.

New Dictatype Company, Incorporated, assignee: *See*—
Von Duyke, Harrison M.

Newton, Amos S., and O. Johnson, Ames, Iowa, assignors to the United States of America as represented by the United States Atomic Energy Commission. Preparation of compounds of uranium and nonmetals. 2,534,676, Dec. 19.

Newton, Amos S., and O. Johnson, Ames, Iowa, assignors to the United States of America as represented by the United States Atomic Energy Commission. Production of uranium halides. 2,534,677, Dec. 19.

Newton, George C., Jr., Cambridge, Mass., assignor to The Sperry Corporation. Servomotor and system having improved torque characteristics. 2,534,293, Dec. 19.

New York Air Brake Company, The, assignee: *See*—
Pickert, Lynn I.

New York Wire Cloth Company, assignee: *See*—
Houghton, Daniel E.

Nicholes, Postell M.: *See*—
Glick, Charles F.

Nicholls, Kenneth H.: *See*—
Rose, Alfred G., and Nicholls.

Niemi, Paul, Gheen, Minn. Lifting hook. 2,534,619, Dec. 19.

Noether, Herman D., Kew Gardens, N. Y., assignor to Celanese Corporation of America. Production of polymeric compounds. 2,534,366, Dec. 19.

Norheim, Ludwig M., Garden City, Mich. Revolving bed. 2,534,471, Dec. 19.

North American Electric Lamp Company, assignee: *See*—
Weber, Alfred H.

Northquist, Clarence T., assignor of one-third to G. O. Brown, Seattle, Wash., and one-third to L. B. Johnson, Minneapolis, Minn. Manually operated vegetation clipper. 2,534,924, Dec. 19.

Norton Company, assignee: *See*—
Jeppson, George N.
Wood, Wallace H.

Norvelle, Herman D., Jacksonville, Fla. Conduit snake. 2,534,472, Dec. 19.

Novack, Hymen H., assignee: *See*—
Vogel, Frank.

Novak, Mildred E., assignee: *See*—
Schmidt, Howard F., Gerlach, and Squiers.

Oatis, Henry O., and R. F. Yantis, Dallas, Tex. Display counter top. 2,534,620, Dec. 19.

Oberholtz, Anthony, assignee: *See*—
Moeller, George J.

Obermann, Anton P. R., Santpoort, and R. W. H. Obermann, Bloemendaal, assignors, by mesne assignments, to N. V. Chemische Industrie "Rids," Haarlem, Netherlands. Device for making strings of pressed articles. 2,534,678, Dec. 19.

Obermann, Richard W. H.: *See*—
Obermann, Anton P. R. and R. W. H.

Ohio Injector Company of Illinois, The, assignee: *See*—
Edwards, Frank W.

Ohman, Eric J., Anchorage, Alaska. Metal recovering machine. 2,534,294, Dec. 19.

Olson, Eric, Jersey City, N. J. Drip pan attachment for sinks. 2,534,793, Dec. 19.

Onorato, Leonard: *See*—
Marini, Thomas O., and Onorato.

Ortusi, Antoine J. and R. P., Paris, France, assignors to Compagnie Generale de Telegraphie Sans Fil. Wave guide coupling arrangement. 2,534,876, Dec. 19.

Ossbahr, Richard G., Sundbyberg, and O. L. Andersson, Lahall, assignors, by mesne assignments, to E. G. Gardin, Stockholm, Sweden. Collapsible baby carriage. 2,534,986, Dec. 19.

Oster Manufacturing Company, The, assignee: *See*—
Packer, Harry V.

Ostreicher, Warren J., New York, N. Y., assignor to Tele-Tone Radio Corporation. Keystoning circuit. 2,534,557, Dec. 19.

Otallah, Gustandy, assignor of fifteen per cent to A. Shaheen, Detroit, Mich. Cigarette humidifier. 2,534,829, Dec. 19.

Ottenbacher, Martin C., Fredonia, Wis. Self-unloading vehicle. 2,534,538, Dec. 19.

Ottinger, August F.: *See*—
Brady, Charles V., and Ottinger.

Owen, Lewis M., New York, N. Y. Illuminated mirror clock. 2,534,877, Dec. 19.

Owens-Illinois Glass Company, assignee: *See*—
Serinis, Neo S.

Pacey, Derek J.: *See*—
Ambrose, Edmund J., Pacey, and Salmon.

Pacific American Fisheries, Inc., assignee: *See*—
Berglund, Ralph M.

Packer, Harry V., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Rotating die head with cam operated radial chasers. 2,534,878, Dec. 19.

Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Combined anchor and packer for use in wells. 2,534,528, Dec. 19.

Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Slip mechanism for well tools. 2,534,529, Dec. 19.

Page Oil Tools Inc., assignee: *See*—
Page, John S.

Pakala, William E.: *See*—
Bover, John L., and Pakala.

Panhard, Jean, assignor to Societe Anonyme des Anciens Etablessements Panhard & Levassor, Paris, France. Valve return device. 2,534,621, Dec. 19.

Panish, Erwin J., Bridgeport, Conn. Control device for prime movers. 2,534,729, Dec. 19.

Panoramic Laboratories, assignee: *See*—
Hurvitz, Hyman.

Panoramic Radio Corporation, assignee: *See*—
Hurvitz, Hyman.
Wallace, Marcel.

Panzer, Allan, assignee: *See*—
Foltis, Anastis.

Parkrose, Gloria M.: *See*—
Perrotta, Edna M., and Parkrose.

"Parmoy," assignee: *See*—
Traversac, Rene M.

Paul, Raymond: *See*—
Ortusi, Antoine J., and Paul.

Payson, Arthur H., and L. J. Darmstadt, assignors to The American Thermos Bottle Company, Norwich, Conn. Exhaust tip protector for vacuum insulated vessels. 2,534,295, Dec. 19.

Peacock, Francis J., Olton, Birmingham, England. Amusement machine. 2,534,730, Dec. 19.

Peek, Richard K., assignor to Percy Kent Bag Co., Inc., Kansas City, Mo. Convertible bag and apron. 2,534,473, Dec. 19.

Pell, Eric: *See*—
Douglas, John F. H., Pell, and Seeger.

Pellerin, Lionel J., Lynn, Mass. Safety gas burner. 2,534,474, Dec. 19.

Penick, S. B., & Company, assignee: *See*—
Baron, Abraham L.

Penn Supply and Metal Corporation, assignee: *See*—
Silberman, Alexander.

Perillo, Florindo J., Jackson Heights, assignor to Viewlex, Inc., Queens County, N. Y. Projector strip film advancing and framing mechanism. 2,534,731, Dec. 19.

Perillo, Florindo J., Jackson Heights, assignor to Viewlex, Inc., Queens County, N. Y. Film guide for strip film projectors. 2,534,732, Dec. 19.

Perrotta, Edna M., Lyndhurst, N. J., and G. M. Parkrose, Brooklyn, N. Y. Load carrier. 2,534,367, Dec. 19.

Perry, Alois B., Los Angeles, and L. S. Hamer, Long Beach, Calif. Controlled packing construction for pumps or the like. 2,534,530, Dec. 19.

Petersen, Jack W.: *See*—
Johnson, William S., Petersen, and Gutsche.

Peterson, Theodore P., assignor to Hegvold Woodcraft Co. Inc., Mitchell, S. Dak. Hog watering device. 2,534,475, Dec. 19.

Petruschell, Lucius P., Mount Dora, Fla., assignor to Dictaphone Corporation, New York, N. Y. Electric phonograph with separate stylus for recording and reproducing. 2,534,368, Dec. 19.

Petzinger, Ambrose J., Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Scale-distribution control for measuring devices. 2,534,925, Dec. 19.

Phelps, James C.: *See*—
Shenk, Eugene R., and Phelps.

Philco Corporation, assignee: *See*—
Clapp, Richard G.

Phillips, Arthur P.: *See*—
Baltzly, Richard, Phillips, and Randall.

Phillips Petroleum Company, assignee: *See*—
Friedman, Alvin H.
Mahan, John E.
Robinson, Sam P.
Weber, Ludwig A., and Kiphart.

Philo, Frank G., Long Beach, Calif. Leak detector. 2,534,830, Dec. 19.

Photoswitch, Incorporated, assignee: *See*—
Thomson, E. Craig.

Pickert, Lynn L., Watertown, N. Y., assignor to The New York Air Brake Company. Load compensated air brake. 2,534,622, Dec. 19.

Pike, Merle E., Kingsport, Tenn., and E. W. Lane, Gates City, Va., assignors to Eastman Kodak Company, Rochester, N. Y. Apparatus for calendering thermoplastic sheets. 2,534,296, Dec. 19.

Pirelli Societa Per Azioni, assignee: *See*—
Bedini, Nerino, Vesigna, and Giuliani.

Pistey, John M., Fairfield, Conn., and F. C. De Reamer, Lake Worth, Fla., assignors to General Electric Company. Lamp holder for circular tubular lamps. 2,534,956, Dec. 19.

Pitney-Bowes, Inc., assignee: *See*—
Russell, Alva G.

Pitts, Franklin A., Covington, and W. H. Haupt, Ludlow, assignors to The Kelley-Koett Manufacturing Company, Covington, Ky. Vertically and tiltably movable X-ray table. 2,534,623, Dec. 19.

Pittsburgh Plate Glass Company, assignee: *See*—
Powle, Warren L.

Place, Charles L., New Milford, Conn. Belt drive assembly. 2,534,679, Dec. 19.

Plesh, Marion, Represa, Calif. Smoking pipe. 2,534,476, Dec. 19.

Poirier, Leonard R., Stockton, and V. E. Provost, San Francisco, Calif. Food holding unit. 2,534,680, Dec. 19.

Polan, Alvin F., Baltimore, Md. Circular steaming unit for umbrellas. 2,534,831, Dec. 19.

Polaroid Corporation, assignee: *See*—
Baratelli, Charles A.
Barnes, Arthur.

Porter, William L.: *See*—
Krewson, Charles F., Naghski, and Porter.

Portnoy Garment Company, assignee: *See*—
Senter, Lloyd W.

Posthumus, Klaas, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Transmitting device. 2,534,624, Dec. 19.

Powell, George T., Jr., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Metal bottle case. 2,534,879, Dec. 19.

Powers, Frank T., Jr., executor: *See*—
Powers, Frank T., Sr.

Powers, Frank T., Sr., deceased, Glen Cove, N. Y., by F. T. Powers, Jr., Locust Valley, and J. M. Powers, Glen Cove, N. Y., executors, assignors to Powers Photo Engraving Company. Photomechanical printer. 2,534,794, Dec. 19.

Powers, John M., executor: *See*—
Powers, Frank T., Sr.

Powers Photo Engraving Company, assignee: *See*—
Maxwell, John D.
Powers, Frank T., Sr.

Praytor, Dennis M., Birmingham, and K. Kershaw, Montgomery, Ala. Ballast removing machine. 2,534,880, Dec. 19.

Preston, Frank W., assignee: *See*—
McCormick, John M.

Price, H. C., Co., assignee: *See*—
Elliott, Bernard V.

Price, James O., Dallas, Tex. Electrically controlled dispensing valve and counter. 2,534,987, Dec. 19.

Prince, Roy W., Jr., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulation. 2,534,559, Dec. 19.

Products & Licensing Corporation, assignee: *See*—
Toulon, Pierre M. G.

Protex Products Company, assignee: *See*—
Schwartzman, Nathan L.

Prout, Elmer W., La Canada, Calif., assignor, by mesne assignments, to T. W., A. K., A., and J. C. Burnam, and J. B. Crews, trading as a limited Partnership under the name Fog Nozzle Company. Pressure sealing means for valves. 2,534,477, Dec. 19.

Provost, Vernon E.: *See*—
Poirier, Leonard R. and V. E.

Purcell, Howard M.: *See*—
Geiger, George W., and Purcell.

Purcell, Howard M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Method and apparatus for molding. 2,534,988, Dec. 19.

Purifoy, George R.: *See*—
Burkhardt, Robert E., and Purifoy.

Putnam, Stearns T., Roselle, assignor to Hercules Powder Company, Wilmington, Del. Resin acid nitriles. 2,534,297, Dec. 19.

Radde, Arthur H., Middlefield, assignor to The Vichek Tool Company, Cleveland, Ohio. Hinge for plastic receptacles. 2,534,989, Dec. 19.

Radio Corporation of America, assignee: *See*—
Canfora, Arthur E., and Thomas.
Donal, John S., Jr., Bush, and Cuccia.
Ferris, Warren R.
Hart, Stephen V.
King, Louis A.
Schade, Otto H.
Shenk, Eugene R., and Phelps.
Smith, J. Ernest, and Mathes.
Sziklai, George C.
Thomas, Lewis A., Spencer, and Shenk.
Thomsen, Soren M.

Radio Industrie S. A., assignee: *See*—
Kahan, Theo. and Waché.

Ramsey, Walter E., Graham, Tex. Automatic fish catcher. 2,534,795, Dec. 19.

Randall, Boardman M., Portsmouth, N. H. Picket fence section. 2,534,681, Dec. 19.

Randall, Lowell O.: *See*—
Baltzly, Richard, Phillips, and Randall.

Randol, Elizabeth L., assignee: *See*—
Randol, Glenn T.

Randol, Glenn T., Detroit, Mich., assignor of one-half to E. L. Randol, Mountain Lake Park, Md. Speed responsive device. 2,534,733, Dec. 19.

Randolph, Frank D., Cheyenne, assignor of one-half to G. G. Davis, Albin, Wyo. Veterinary forceps. 2,534,990, Dec. 19.

Rauland Corporation, The, assignee: *See*—
Marcy, Henry O., 3rd.

Raybestos-Manhattan, Inc., assignee: *See*—
D'Olier, George.

Raytheon Manufacturing Company, assignee: *See*—
Kienow, Orwald F.

Rea, Newville F., Sumner, Wash. Insecticide comprising benzene hexachloride and tar oils. 2,534,926, Dec. 19.

Reed, Harold V., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch plate. 2,534,991, Dec. 19.

Reef, Albert H., assignee: *See*—
Vogel, Frank.

Reid, Ralph A., Beverly, Mass., assignor to General Electric Company. Lighting unit. 2,534,992, Dec. 19.

Reid, Rose M., assignor to R. M. Reid, Los Angeles, Calif. Garment. 2,535,018, Dec. 19.

Republic Steel Corporation, assignee: *See*—
Wilson, Herman W., and Heyworth.

Ress, Thomas I., Chicago, Ill. Cathode-ray tube selector system. 2,534,369, Dec. 19.

Revco Products, assignee: *See*—
Abos, Ralph H., Stanfield, and Myers.

Reynolds Metals Company, assignee: *See*—
Powell, George T., Jr.

Rhines, Chester E., Glen Rock, and C. E. Linscott, Ridgewood, N. J., assignors to United States Rubber Company, New York, N. Y. Preservation of latex. 2,534,370, Dec. 19.

Rhodes, Herbert C., Portland, Oreg., assignor to The Standard Stoker Company, Inc. Making bread. 2,534,734, Dec. 19.

Richter, George A., Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del. Producing mixed cellulose esters. 2,534,371, Dec. 19.

Ring, Douglas H., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray device. 2,534,372, Dec. 19.

Ringrose, Henry T., Leeds, England. Apparatus for indicating the presence of inflammable vapors or gas. 2,534,796, Dec. 19.

Robert, Jacques: *See*—
Jacob, Robert M., and Robert.

Roberts, Frederick W., and S. Yerkovich, Fairfield, Conn., assignors to Dictaphone Corporation, New York, N. Y. Guarded stylus. 2,534,735, Dec. 19.

Roberts, Irving, Greensburg, assignor to Elliott Company, Jeannette, Pa. Gas purifying method and apparatus. 2,534,478, Dec. 19.

Robichaud, Edmund J., Middletown, assignor to The Billings and Spencer Company, Hartford, Conn. Automatic bar stock machine. 2,534,993, Dec. 19.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heating chamber. 2,534,625, Dec. 19.

Robishaw, Alcea P., assignor to C. N. Housh, Houston, Tex. Adjustable pipe rack. 2,534,682, Dec. 19.

Rohm & Haas Company, assignee: *See*—
Croxall, Willard J., and Schneider.
Croxall, Willard J., and Van Hook.

Rolock, Incorporated, assignee: *See*—
Johnston, William A.

Ronci, Victor L., Zionsville, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrode mounting for high-power electron discharge devices. 2,534,373, Dec. 19.

Rosco Mfg. Co., assignee: *See*—
Lovenheim, Clifford N., and A. S.

Rose, Alfred G., Gainsborough, and K. H. Nicholls, Freshford, England. Gauging apparatus for testing parallelism. 2,534,736, Dec. 19.

Rose, Walter D.: *See*—
Leas, William J., and Rose.

Rose, Walter D., Tulsa, Okla., assignor to Standard Oil Development Company. Core analysis and apparatus therefor. 2,534,737, Dec. 19.

Rosenstein, Ludwig, New York, N. Y. Production of sodium carbonate. 2,534,298, Dec. 19.

Rossmanith, Wolfgang, Solothurn, Switzerland. Machine for grinding internal cone surfaces. 2,534,531, Dec. 19.

Rowland, Edward L., assignee: *See*—
Appleton, Richard L.

Rubenstein, Harry R., Euclid, Ohio. Adjustable tail gate construction. 2,534,626, Dec. 19.

Rugh, James A., Chicago, Ill. Switch holding and release mechanism. 2,534,797, Dec. 19.

Ruiz, Alfonso J., Corpus Christi, Tex., and E. J. Kupjack, U. S. Navy. Electronic timer. 2,534,299, Dec. 19.

Rumbold, John S., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Creaming of natural rubber latex. 2,534,374, Dec. 19.

Rumbold, John S., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Creaming of natural rubber latex. 2,534,375, Dec. 19.

Runge, Frank E.: *See*—
Stone, Robert L., and Runge.

Russell, Alva G., assignor to Pitney-Bowes, Inc., Stamford, Conn. Differential actuator. 2,534,376, Dec. 19.

Ryder, Harry: *See*—
Kershaw, Norman, and Ryder.

Sachanen, Alexander N.: *See*—
Brooks, John W., and Sachanen.

Said, William H.: *See*—
Cleveland, Robert C., and Said.

Salmon, Joseph G.: *See*—
Ambrose, Edmund J., Pacey, and Salmon.

Sandin, Jerome: *See*—
Grissinger, George G., Sandin, and Linstrom.

Satchwell, Leonard, Farnham Royal, and W. H. Wilson, Camberley, England; said Wilson assignor to said Satchwell. Boiler furnace. 2,534,377, Dec. 19.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. High-voltage rectifier. 2,534,532, Dec. 19.

Schade, Otto H., West Caldwell, N. J., assignor to Radio Corporation of America. Video amplifier with separate channels for high and low frequencies. 2,534,627, Dec. 19.

Schilling, Lorell J., Galesville, Wis., assignor to Babson Bros. Co. Milking timer. 2,534,927, Dec. 19.

Schinman, Carl E., Seattle, Wash. Fabricated refractory metal firebox. 2,534,832, Dec. 19.

Schlaich, Herman, Elmhurst, N. Y. Safety control for shower heads and other hot-water outlets. 2,534,378, Dec. 19.

Schleret, Armand P.: *See*—
Danielsen, August A., and Schleret.

Schlesinger, Hermann I., Chicago, Ill., and H. C. Brown, Detroit, Mich. Preparing alkali metal borohydrides. 2,534,533, Dec. 19.

Schmidt, Howard F., San Diego, and G. T. Gerlach, Coronado, Calif., and J. C. Squiers, Detroit, Mich., assignors of one-half to said Schmidt, one-eighth to W. J. Janson, one-eighth to T. P. Mahoney, one-eighth to M. E. Novak, San Diego, Calif., and one-eighth to said Gerlach. Support for household utility devices. 2,534,683, Dec. 19.

Schneeberger, Robert J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Inverted tetrode vacuum tube voltmeter. 2,534,028, Dec. 19.

Schneider, Carl, Enfield, Conn. Transplanter drill set. 2,534,798, Dec. 19.

Schneider, Henry J.: *See*—
Croxall, Willard J., and Schneider.

Schofield, Henry Z.: *See*—
Austin, Chester R., and Schofield.

Schorn, William F., Alexandria, Va. Bed-couch. 2,534,300, Dec. 19.

Schreiber, John H., St. Louis, Mo. Bearing. 2,534,379, Dec. 19.

Schroeder, Henry J., Chicago, Ill. Electrical wire connector with insulation piercing means. 2,534,881, Dec. 19.

Schultz, Mortimer, A., Baltimore, and C. M. Skinner, Jr., Catonsille, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bearing. 2,534,929, Dec. 19.

Schultze, John E., Baltimore, Md., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Apparatus for manufacturing a continuous strip of solid alcohol. 2,534,629, Dec. 19.

Schuylkill Chemical Company, assignee: *See*—
Mecca, Sebastian B.

Schwartzman, Nathan L., assignor to Protex Products Company, Jersey City, N. J. Garment bag. 2,534,380, Dec. 19.

Schwinn, Elmer R., Chicago, Ill. Smoking device. 2,534,799, Dec. 19.

Scott, Benjamin B., G. F. Greene, and A. D. Coggeshall, Schenectady, N. Y., assignors to General Electric Company. Precision electrical resistance device and making it. 2,534,994, Dec. 19.

Scott, Grace L., assignee: *See*—
Scott, Marie B.

Scott, Marie B., assignor to G. L. Scott, St. Louis, Mo. Foldable bed. 2,534,800, Dec. 19.

Scott, Walter A., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Mount for rotating parts. 2,534,738, Dec. 19.

Scott & Williams, Inc., assignee: *See*—
Lawson, Robert H.

Scott & Williams, Incorporated, assignee: *See*—
Lawson, Robert H., and Dodds.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.

Seavey, Gordon C., Arlington, and C. B. Horsley, Westwood, assignors to Ultrasonic Corporation, Cambridge, Mass. Sound generator. 2,534,833, Dec. 19.

Sebastian, David, R. H. Hampton, and B. J. Heggen, Kings County, N. Y. Hydraulic brake level indicator. 2,534,381, Dec. 19.

Seeger, Edwin W.: *See*—
Douglas, John F. H., Pell, and Seeger.

Seese, Lee J., University Heights, Ohio. Vise. 2,534,995, Dec. 19.

Seggel, August J.: *See*—
Michell, Anthony G. M., and Seggel.

Sellers, William D., Glen Ellyn, Ill., assignor to The Hoover Company, North Canton, Ohio. Handle actuated delayed motor disconnect for suction cleaners. 2,534,479, Dec. 19.

Sennholtz, Charles E., Chicago, Ill. Impact hammer with attached wear member. 2,534,301, Dec. 19.

Sennholtz, Charles E., Chicago, Ill. Hammer for impact pulverizers. 2,534,302, Dec. 19.

Senter, Lloyd W., Overland, assignor to Portnoy Garment Company, St. Louis, Mo. Sewing machine for making tubular trimmings. 2,534,534, Dec. 19.

Serinis, Neo S., Gloucester, N. J., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Making integrated calcium silicate bodies. 2,534,303, Dec. 19.

Sernink, George E., Roselle, and B. M. Vanderbilt, Westfield, N. J., assignors to Standard Oil Development Company. Esterification with boron fluoridehydroxy polyether complexes. 2,534,304, Dec. 19.

Serpico, Frank, Philadelphia, Pa. Reinforced luggage box. 2,534,684, Dec. 19.

Seward, Percy R., Minneapolis, Minn. Automatic plate inserter and ejector for embossing machines. 2,534,834, Dec. 19.

Shacklette, Albert, Jeffersontown, Ky. Power-operated posthole digging machine. 2,534,628, Dec. 19.

Shafor, Ralph W., Los Gatos, Calif., assignor to International Minerals & Chemical Corporation. Saccharateion exchange process. 2,534,560, Dec. 19.

Shaheen, Allie, assignee: *See*—
Otaliah, Gustandy.

Shannon, Joseph, Beaumont, Tex. Marine oil drilling machine. 2,534,480, Dec. 19.

Sharf, John M., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for sealing containers. 2,534,305, Dec. 19.

Shechter, Leon, East Orange, and J. M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Ketene-aldehyde modified oils. 2,534,306, Dec. 19.

Shechter, Leon, East Orange, and J. M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Ketene-aldehyde modified alkyd mixed esters. 2,534,307, Dec. 19.

Shechter, Leon, East Orange, and J. M. Whelan, Jr., Lyndhurst, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Rosin-containing mixed esters. 2,534,308, Dec. 19.

Sheffield, Donald H., assignor to Hercules Powder Company, Wilmington, Del. Composition for internal-combustion engines. 2,534,309, Dec. 19.

Shell Development Company, assignee: *See*—
Mitchell, Lloyd J., and Sommer.

Shenk, Eugene R.: *See*—
Thomas, Lewis A., Spencer, and Shenk.

Shenk, Eugene R., Fairlawn, and J. C. Phelps, Woodcliff Lake, N. J., assignors to Radio Corporation of America. Automatic code signal discriminating device. 2,534,388, Dec. 19.

Sherr, Sava I., assignor to S. Briskman, New York, N. Y. Milling head. 2,534,882, Dec. 19.

Shlefstein, Abram, assignee: *See*—
Goodheart, Jack.

Shoemaker, John M., Sr., Middletown, Ind. Universal dental capsule filler for use by the dental profession. 2,534,630, Dec. 19.

Shrader, Everett E., Ravenna, assignor of one-half to A. H. Sturges, Omaha, Nebr. Corn snapping rolls. 2,534,685, Dec. 19.

Sigler, Harold H.: *See*—
Hiller, Stanley, Jr., and Sigler.

Silberman, Alexander, Upper Providence Township, Delaware County, assignor to Penn Supply and Metal Corporation, Philadelphia, Pa. Pipe hook. 2,534,739, Dec. 19.

Siltamaki, Harold A., Burbank, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Electric motor control system. 2,534,801, Dec. 19.

Silver, John, Hollywood, Calif. Device for displaying photographic transparencies. 2,534,561, Dec. 19.

Silver, Walter T.: *See*—
Gorham, John E., and Silver.

Silverman, Irving, Brooklyn, N. Y. Drop dispensing container. 2,534,310, Dec. 19.

Simmons, Charley, Denver, Colo. Combined automatic phonograph and radio. 2,534,930, Dec. 19.

Simon, Henry, Limited, assignee: *See*—
Woods, Edgar C.

Simpson, Joseph A., asignor of one-half to M. Hearst, New York, N. Y. Cord and spring animated figure device. 2,534,831, Dec. 19.

Sinclair Refining Company, assignee: *See*—
Beckberger, La Vern H.
Kuhn, George F.

Singer, Henry, assignor of one-half to J. K. Goo Kim, Jr., Honolulu, Hawaii. Sounding toy. 2,534,996, Dec. 19.

Singer Manufacturing Company, The, assignee: *See*—
Hacklander, Hans, and Sweeny.

Skelton, William E.: *See*—
Arnold, George B., and Skelton.

Skelton, William E., Beacon, and G. B. Arnold, Glenham, assignors to The Texas Company, New York, N. Y. Refining oil with a solvent. 2,534,382, Dec. 19.

Skinner, Claude M., Jr.: *See*—
Schultz, Mortimer A., and Skinner.

Smith, Albert A., Glenn Dale, Md. Metallic plate construction. 2,534,311, Dec. 19.

Smith, Alonzo L., Houston, Tex. Well surveying device. 2,534,632, Dec. 19.

Smith, Claude R., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Nicotine compounds containing univalent copper. 2,534,835, Dec. 19.

Smith, Clyde R., Akron, Ohio. Window construction. 2,534,687, Dec. 19.

Smith, Glen W., Grinnell, Iowa. Receptacle filling device. 2,534,997, Dec. 19.

Smith, J. Ernest, Jackson Heights, N. Y., and R. E. Mathes, Silver Spring, Md., assignors to Radio Corporation of America. Secrecy system. 2,534,535, Dec. 19.

Smith, Stanley J., London, England, assignor to West Road Co. Limited. Liquid level gauge. 2,534,802, Dec. 19.

Smith, William A., Cedar Rapids, Iowa. Battery electrolyte level indicator. 2,534,633, Dec. 19.

Smith, William P., and H. J. Wilks, assignors to Automotive Products Company Limited, Leamington Spa, England. Power transmission fluids. 2,534,803, Dec. 19.

Smyers, William H., Westfield, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Modified rubber products. 2,534,883, Dec. 19.

Societe Anonyme des Acieries et Forges de Firminy, assignee: *See*—
Blain, Paul.

Societe Anonyme des Anciens Etablessements Panhard & Levassor, assignee: *See*—
Panhard, Jean.

Societe des Usines Chimiques Rhone Poulenc, assignee: *See*—
Jacob, Robert M., and Robert.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bray, Ellis E.
Brooks, John W., and Sachanen.
Evans, Louis P.

Somerville, Gareth G., Pittsfield, Mass., assignor to General Electric Company. Electric induction apparatus. 2,534,312, Dec. 19.

Sommer, Harry J.: *See*—
Mitchell, Lloyd J., and Sommer.

Sonneborn, L., Sons, Inc., assignee: *See*—
Liberthson, Leo, and Faust.
Liberthson, Leo.

Soundscriber Corporation, The, assignee: *See*—
Stone, Robert L., and Runge.

South Bend Lathe Works, assignee: *See*—
Frushour, Russel E.

Spann, Marian L., executrix: *See*—
Chaya, John S., and Spann.

Spann, William L.: *See*—
Chaya, John S., and Spann.

Sparks, Cedric H., London, England, assignor to Detroit Stoker Company, Detroit, Mich. Removal from and burning of ash on a grate. 2,534,634, Dec. 19.

Sparks-Withington Company, The, assignee: *See*—
Dunlap, Hobert M.

Speakman Company, assignee: *See*—
Fraser, James.

Specht, Theodore, Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Current transformer. 2,534,931, Dec. 19.

Specialties Development Corporation, assignee: *See*—
Helgis, Henry E., and Frese.

Spencer, James A.: *See*—
Thomas, Lewis A., Spencer, and Shenk.

Sperry Corporation, The, assignee: *See*—
Ginzton, Edward L.
Lancor, Joseph H., Jr.
Micher, Walter W.
Newton, George C., Jr.
Wilkerson, Jefferson R.

Spira, Josef H., New York, N. Y. Apparatus for polishing or forming facets on gems, diamonds, or the like. 2,534,384, Dec. 19.

Spraker, Lester L., Eaton, Ohio. Adjustable corn picker snout. 2,534,481, Dec. 19.

Square D Company, assignee: *See*—
Stanback, Harris I., and Anger.

Squiers, John C.: *See*—
Schmidt, Howard F., Gerlach, and Squiers.

Stanback, Harris I., Milwaukee, and E. G. Anger, Wauwatosa, Wis., assignors to Square D Company, Detroit, Mich. Electrical timing control. 2,534,385, Dec. 19.

Standard Oil Company, The, assignee: *See*—
Bartleson, John D.

Standard Oil Development Company, assignee: *See*—
Calfee, John D., and Thomas.
Crookston, Robert B.
Hankins, Elinor M.
Leas, William J., and Rose.
Nelson, Karl J., and Martin.
Rose, Walter D.
Serniuk, George E., and Vanderbilt.

Standard Stoker Company, Inc., The, assignee: *See*—
Rhodes, Herbert C.

Stanfield, Laurence M.: *See*—
Abos, Ralph H., Stanfield, and Myers.

Star Sash Balance Corporation, assignee: *See*—
Haas, Glenn B.

Starkey, Jerome, Campbell, Calif. Automobile driver's hand-signaling flag. 2,534,313, Dec. 19.

Staude, Edwin G., assignor of one-half to O. B. Staude, Los Angeles, Calif. Manually controlled electric power assistor. 2,534,536, Dec. 19.

Staude, Olive B., assignee: *See*—
Staude, Edwin G.

Steensen, Sverre J. V. Aker, near Oslo, Norway. Compressor. 2,535,019, Dec. 19.

Steinbach, Warner, Maplewood, assignor to Cranford Development Corporation, Cranford, N. J. Door hinge. 2,534,998, Dec. 19.

Steinmueller, Ralph E.: *See*—
Dietert, Harry W., and Steinmueller.

Stephan, John T., Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo. Plasticized aminoaldehyde resins. 2,535,020, Dec. 19.

Sterling Drill Company, assignee: *See*—
Brown, Sam.

Stern, Isador, assignee: *See*—
Mayer, Samuel.

Stevels, Johannes M.: *See*—
Verwey, Evert J. W., and Stevels.

Stevens, Austin E., Fall River, Mass. Faulty thread indicator for sewing machines, etc. 2,534,999, Dec. 19.

Stewart, Harry J., Tripoli, Iowa. Upending tractor seat. 2,534,386, Dec. 19.

Stillwagon, George B., Jr., assignor of one-half to K. G. Fraser, Dayton, Ohio. Cover for universal joints. 2,534,635, Dec. 19.

Stirn, Frank E., Pearl River, assignor to American Cyanamid Company, New York, N. Y. Powder dispenser. 2,534,636, Dec. 19.

Stone, Natalie G., assignee: *See*—
Wilcher, Abrasha, and Gordon.

Stone, Robert L., Guilford, and F. E. Runge, Branford, assignors to The Soundscriber Corporation, New Haven, Conn. Foot pedal arrangement for controlling phonograph transcriber switches. 2,535,021, Dec. 19.

Strang, John M., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Submarine periscope. 2,534,884, Dec. 19.

Strauss, Orville L., and C. J. Wegner, La Porte, Ind., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Web position controlling device for web material treating machines. 2,534,686, Dec. 19.

Strouse, Ethel, New York, N. Y. Bridge element for catamenial devices. 2,534,885, Dec. 19.

Strutt, Maximiliaan J. O., A. van der Ziel, and K. S. Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. High-frequency electron discharge tube. 2,534,836, Dec. 19.

Stueland, Harold M., East Moline, assignor to Deere & Company, Moline, Ill. Hydraulic power shovel loader. 2,534,886, Dec. 19.

Sturdy, Robert A., assignor to Moorman Manufacturing Company, Quincy, Ill. Insecticidal composition comprising DDT and methoxychlor. 2,535,000, Dec. 19.

Sturges, Arthur H., assignee: *See*—
Shrader, Everett E.

Suftko, Stanley, Chicago, Ill. Glove turner. 2,534,740, Dec. 19.

Suggate, Harold G.: *See*—
Kendall, John D., and Suggate.

Sun, Kuan-Han, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Detecting elementary particles. 2,534,932, Dec. 19.

Sussin, David, South Fort Mitchell, assignor to The Kelley-Koett Manufacturing Company, Covington, Ky. X-ray illuminating mechanism. 2,534,637, Dec. 19.

Svenska Aktiebolaget Bromsregulator, assignee: *See*—
Malmquist, Nils G. A.

Svenska Aktiebolaget Gasaccumulator, assignee: *See*—
Grangvist, Carl-Erik.

Swanson, Stuart E., Hartford, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Modification of wool to increase its harshness and fullness and to decrease its luster. 2,534,314, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Treatment of wool to increase its harshness and fullness and to decrease its luster. 2,534,315, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Treatment of wool to increase its harshness and decrease its luster. 2,534,316, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Modification of B. A.-type wool to impart harshness and low luster thereto. 2,534,317, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Modifying B. A.-type wool to impart harshness and low luster thereto. 2,534,318, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Modification of B. A.-type wools. 2,534,319, Dec. 19.

Swanson, Stuart E., Suffield, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Modification of B. A.-type wool. 2,535,022, Dec. 19.

Sweeny, Charles P.: *See*—
Hacklander, Hans, and Sweeny.

Swenson, Joseph W., Summit, N. J. Universal-type picture frame. 2,534,741, Dec. 19.

Swinehart, Carl F., University Heights, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Electrolytic production of fluorine. 2,534,638, Dec. 19.

Synero Machine Company, assignee: *See*—
Bruestle, Carl O.

Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device of the velocity modulation type. 2,534,537, Dec. 19.

Talbot, Curtis O.: *See*—
Heck, John T., Du Mais, and Talbot.

Taylor, William P., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Apparatus for coating paper. 2,534,320, Dec. 19.

Taylor, William P., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Coating method and apparatus. 2,534,321, Dec. 19.

Tecalemit Limited, assignee: *See*—
Le Clair, Camille C. S.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Jacobaeus, Anton C.

Teleregister Corporation, The, assignee: *See*—
Bush, George L.

Tele-Tone Radio Corporation, assignee: *See*—
Ostreicher, Warren J.

Teletype Corporation, assignee: *See*—
Lorenz, Otto A., and Yarnell.
Zenner, Walter J.

Terhorst, George C., Pittsburgh, Pa. Fish lure. 2,534,482, Dec. 19.

Texas Company, The, assignee: *See*—
Arnold, George B., and Skelton.
Atwell, Harold V.
Carkeek, Charles R.
Fenney, William N.
Herzog, Gerhard.
Skelton, William E., and Arnold.

Thaheld, Fred A., Brea, assignor to Diesel Power, Inc., Los Angeles, Calif. Operating Diesel-type internal-combustion engines. 2,534,322, Dec. 19.

Thomas, Lewis A.: *See*—
Canfora, Arthur E., and Thomas.

Thomas, Lewis A., Brooklyn, N. Y., J. A. Spencer, Teaneck, N. J., and E. R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America. Morse code printing system. 2,534,387, Dec. 19.

Thomas, Raymond G., Washington, D. C. Vapor injector. 2,534,483, Dec. 19.

Thomas, Robert M.: *See*—
Calfee, John D., and Thomas.

Thompson Grinder Company, The, assignee: *See*—
Baldenhofer, William G.

Thompson, John L., Bay Head, N. J., and R. Flowers, assignors to Mitchell Canneries, Inc., Thomasville, Ga. Ambrosia. 2,534,484, Dec. 19.

Thomsen, Soren M., Pennington, N. J., assignor to Radio Corporation of America. Preparing zinc selenide. 2,534,562, Dec. 19.

Thomson, E. Craig, Boston, assignor to Photoswitch, Incorporated, Cambridge, Mass. Electronic control apparatus. 2,534,323, Dec. 19.

Thoresen, Oscar, Pittsburgh, Pa. Top and spinning device therefor. 2,534,538, Dec. 19.

Thunder, Harold G.: *See*—
Lane, Guy M., and Thunder.

Tierney, Marcus M., St. Paul, Minn. Box and support. 2,534,742, Dec. 19.

Timmer, William F.: *See*—
Webber, Charles S., and Timmer.

Tiscione, Anthony, Brooklyn, N. Y. Electric light socket. 2,534,804, Dec. 19.

Titterton, Ernest W., Harwell, Bidcot, England. X-ray system. 2,534,758, Dec. 19.

Topper, Oscar T., Santa Monica, Calif. Stroller. 2,534,539, Dec. 19.

Toulon, Pierre M. G., Neuilly-sur-Seine, France, assignor to Products & Licensing Corporation, New York, N. Y. Multiunit electron discharge tube. 2,534,688, Dec. 19.

Towle, Warren L., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Photochemical production of benzene hexachloride. 2,534,485, Dec. 19.

Traversac, René M., assignor to "Parmoy," Paris, France. Automatic camera with cutoff means. 2,534,837, Dec. 19.

True, Oscar D.: *See*—
Conley, Joseph T., and True.

Truesdell, Francis W., Lynn, Mass., assignor to General Electric Company. Time switch rider. 2,535,001, Dec. 19.

Tucker Corporation, assignee: *See*—
Lyman, Kenneth E.

Twist, Edward C., assignor of fifty per cent to A. V. Fish, Tulsa, Okla. Fish plug. 2,534,639, Dec. 19.

Ultrasonic Corporation, assignee: *See*—
Seavey, Gordon C., and Horsley.

Union Carbide and Carbon Corporation, assignee: *See*—
Cahodon, Nelson C.
Shechter, Leon, and Whelan, Jr.

United Helicopters, Inc., assignee: *See*—
Hiller, Stanley, Jr., and Sigler.

United Shoe Machinery Corporation, assignee: *See*—
Eich, Frank A., and Monfils.
Ewart, John M.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Newton, Amos S., and Johnson.

U. S. Industrial Chemicals, Inc., assignee: *See*—
Schultze, John E.

United States Rubber Company, assignee: *See*—
Holroyd, George C., and Almand.
Linscott, Chester E.
Rhines, Chester E., and Linscott.
Rumbold, John S.

University of Minnesota, Regents of the, assignee: *See*—
Gisvold, Ole.

Valen, Otto, Trondheim, assignor to A/S Lysøsund Sildolje- & Kraftforfabrik, Lysøsund pr. Trondheim, Norway. Procedure for making fodder meal and oil from animal raw materials. 2,534,640, Dec. 19.

Van Beckum, Fredericus A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Voltage stabilizing tube. 2,534,389, Dec. 19.

Vanderbilt, Byron M.: *See*—
Serniuk, George E., and Vanderbilt.

Van der Ziel, Aldert: *See*—
Strutt, Maximiliaen J. O., Van der Ziel, and Knol.

Van Hook, John O.: *See*—
Croxall, Willard J., and Van Hook.

Van Kouwen, Bernard L.: *See*—
Kronouer, Johan G., and Van Kouwen.

Van Loon, Carl S., Salina, Kans. Sharpener for meat block scrapers. 2,534,486, Dec. 19.

Van Sickle, Roswell C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter with speed control of contact. 2,534,933, Dec. 19.

Veigel, Clarence J., Toledo, Ohio, assignor of one-half to J. J. Bombard, and one-half to R. H. Neisewander, Springfield, Ill. Garage door track. 2,534,641, Dec. 19.

Verwey, Evert J. W., and J. M. Stevels, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustees. Ceramic insulating material and manufacturing same. 2,534,390, Dec. 19.

Vesigna, Roscild: *See*—
Bedini, Nerino, Vesigna, and Giuliani.

Viewlex, Inc., assignee: *See*—
Perillo, Florindo J.

Villoresi, John: *See*—
Moore, Charles R., and Villoresi.

Vincent, Shirley M., Northampton, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Sand mold composition. 2,534,743, Dec. 19.

Viniegra, Fermin, Chicago, Ill. Strapless supporter or shield. 2,534,934, Dec. 19.

Vitalius, Josef V., Karlstad, Sweden, and N. Klykken, Hudson Falls, N. Y., assignors to Aktiebolaget Kamyr, Karlstad, Sweden. Filter drum and shielding shoe. 2,534,563, Dec. 19.

Vichek Tool Company, The, assignee: *See*—
Radde, Arthur H.

Vogel, Frank, assignor to A. H. Reef, H. H. Novack, and I. Haber, Philadelphia, Pa. Automatic safety catch. 2,534,887, Dec. 19.

Vogel, Robert, New York, N. Y. Venetian blind tape. 2,534,642, Dec. 19.

Vold, Annette E., Rosemead, Calif. Knee guard. 2,534,888, Dec. 19.

Von Duyke, Harrison M., assignor to New Dictatype Company, Incorporated, Wilmington, Del. Paper supply and receiving tray for stenographic typewriters. 2,534,391, Dec. 19.

Von Hildebrandt, Paul G., Port St. Joe, Fla. Separating cooking liquor from pulp. 2,534,324, Dec. 19.

Vore, Milton P.: *See*—
Kroft, Herbert M., and Vore.

Wacek, Anton, Graz, Austria, assignor to H. Frederiksen, New York, N. Y. Producing muconic acid and its derivatives. 2,534,212, Dec. 19.

Waché, Albert: *See*—
Kahan, Theo, and Waché.

Wadsworth, Paul W., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ringer test circuit controlled from station under test. 2,534,564, Dec. 19.

Wageley, Tevis R., assignor of one-half to Dunn Woolen Company, Martinsburg, W. Va. Picker stick. 2,534,487, Dec. 19.

Wagner, Charles F., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Sleet-melting on high-voltage lines. 2,534,935, Dec. 19.

Walker, Henry B., Jr., assignee: *See*—
King, Benjamin M., Jr.

Wall, Sydney T., Ouachita, La. Sod cutter. 2,534,838, Dec. 19.

Wallace, Marcel, assignee: *See*—
Hurvitz, Hyman.

Wallace, Marcel, East Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y. Dual synchrometric system. 2,534,842, Dec. 19.

Wallace, Marcel, East Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y. Grated dual synchrometric system. 2,534,843, Dec. 19.

Wallace, Marcel, Fairfield County, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y. Gated tripel synchrometric system. 2,534,844, Dec. 19.

Wallace, Marcel, assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y. Radio altimeter and panoramic reception system. 2,534,839, Dec. 19.

Wallace, Marcel, assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y. Radio system for providing vertically separated airways. 2,534,840, Dec. 19.

Wallace, Marcel, Port Chester, Conn., assignor of one-half to Panoramic Radio Corporation, Mount Vernon, N. Y. Telemetric pulse time position recorder. 2,534,841, Dec. 19.

Waller, Coy W.: *See*—
Boothe, James H., and Waller.

Walley, Omar C.: *See*—
Austin, Bascum O., Walley, and Exner.

Walsh, Edward J., Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making glass window seals. 2,534,392, Dec. 19.

Walsh, Edward J., Tenafly, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrode assembly for electrical discharge devices. 2,534,393, Dec. 19.

Walter, Henry A., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Stabilized vinyl chloride polymers. 2,534,936, Dec. 19.

Walz, Claude W., Rock Island, assignor to Deere & Company, Moline, Ill. Beet harvester. 2,534,889, Dec. 19.

War, United States of America as represented by the Secretary of, assignee: *See*—
Barker, Maurice E.
Gorham, John E., and Silver.

Wardwell, George W., Jr., Trumbull, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Bomb shackle. 2,534,744, Dec. 19.

Wardwell, George W. Jr., Trumbull, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Bomb shackle. 2,534,745, Dec. 19.

Warner, John G., assignor to Machlett Laboratories Incorporated, Springdale, Conn. Brazing beryllium. 2,534,643, Dec. 19.

Warren, Chester L., Union, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for testing vibration translating devices by means of an oscilloscope pattern. 2,534,565, Dec. 19.

Warren, S. D., Company, assignee: *See*—
Frost, Frederick H.
Worthen, Stephen V.

Waterfield, Donald A., Brunswick, assignor to Behr-Manning Corporation, Troy, N. Y. Coated abrasive articles and backings for such articles. 2,534,805, Dec. 19.

Watts, Louise T., New York, N. Y. Drop-leaf extension table. 2,534,890, Dec. 19.

Way, Elwood J., Washington, D. C. Multiple platen press. 2,534,325, Dec. 19.

Weatherhead Company, The, assignee: *See*—
Courtot, Louis B.

Weaver, Clay, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing photographic elements. 2,534,326, Dec. 19.

Webber, Charles S., Loundonville, and W. F. Timmer, Cohoes, assignors to Behr-Manning Corp., Troy, N. Y. Coated abrasive articles. 2,534,806, Dec. 19.

Webber, Ludwig A., and O. W. Kiphart, Borger, Tex., assignors to Phillips Petroleum Company. Automatic sampler of liquid and gas phase streams. 2,534,489, Dec. 19.

Weber, Alfred H., Kirkwood, assignor to North American Electric Lamp Company, St. Louis, Mo. Method and apparatus for making lamp filament joints. 2,534,540, Dec. 19.

Weber, Hans, Baden, Switzerland. Combination contact plug. 2,535,002, Dec. 19.

Weber, Karl A., Brentwood Heights, assignor to Weber Showcase & Fixture Co., Inc., Los Angeles, Calif. Refrigerated structure with curved door. 2,534,488, Dec. 19.

Weber Showcase & Fixture Co., Inc., assignee: *See*—
Weber, Karl A.

Weeks, Frank A., Scobey, Miss. Safety razor. 2,534,490, Dec. 19.

Wegner, Clarence J.: *See*—
Strauss, Orville L., and Wegner.

Welch, Cyril M., Milbrae, Calif. Liquid measuring gauge. 2,534,644, Dec. 19.

Wells, Frank H., Malvern Link, assignor to Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Decoder. 2,534,746, Dec. 19.

Wendt, Harry C., Lynnfield, Mass., assignor to General Electric Company. Gyroscopic instrument. 2,535,003, Dec. 19.

Wersching, Jacob A., Chicago, Ill. Drapery fixture. 2,534,491, Dec. 19.

West Road Co. Limited, assignee: *See*—
Smith, Stanley J.

West, Wilfred H., Oakland, Calif. Towel dispensing cabinet. 2,534,645, Dec. 19.

Western Electric Company, Incorporated, assignee: *See*—
Gray, Alvin N.
Hennessey, Francis W.
Warren, Chester L.

Westinghouse Electric Corporation, assignee: *See*—
Austin, Bascum O., Walley, and Exner.
Boyer, John L., and Pakala.
Burkhardt, Robert E., and Purifoy.
Casanova, Louis A.
Cumming, James M., and Boden.
Cuttino, William H.
Grisinger, George G., Sandin, and Lindstrom.
Hooper, Charles K.
Jennings, Lawrence D., and Naymik.
King, George E.
Kroft, Herbert M., and Vore.
Ludwig, Leon R., and Baker.
Marshall, Fitz-Hugh B.
Nagel, Fritz J., and Nash.
Petzinger, Ambrose J.
Schneeberger, Robert J.
Schultz, Mortimer A., and Skinner.
Specht, Theodore.
Sun, Kuan-Han.
Van Sickle, Roswell C.
Wagner, Charles F.
Woodward, George C.

Wheatley, Edward W.: *See*—
Fisher, James W., and Wheatley.

Whelan, John M., Jr.: *See*—
Shechter, Leon, and Whelan.

Whitman, Henry L., Los Angeles, Calif., assignor by decree of court to Katherine L. Whitman. Vitrifying refractory composition and product. 2,534,327, Dec. 19.

Whitman, Henry L., Los Angeles, Calif., assignor by decree of court to Katherine L. Whitman. Vitrifying refractory composition and product. 2,534,328, Dec. 19.

Whitman, Katherine L., assignee: *See*—
Whitman, Henry L.

Whitmer, Robert M.: *See*—
Golian, Serge E., and Whitmer.

Widmer, Willy, Bottmingen, A. Heckendorn, Basel, and E. Mannhart, Riehen, assignors to Ciba Limited, Basel, Switzerland. Monoazo-dyestuffs. 2,534,646, Dec. 19.

Widmer, Willy, Bottmingen, A. Heckendorn, Basel, and E. Mannhart, Riehen, assignors to Ciba Limited, Basel, Switzerland. Single bath chrome dyeing process using azo dyes having naphtholsulfonamide groups. 2,534,647, Dec. 19.

Wilbur, Paul C., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Method of and apparatus for steaming vegetables. 2,534,648, Dec. 19.

Wilcher, Abrasha, Manchester, N. H., and M. J. Gordon, Brookline, Mass., assignors to M. J. Gordon, S. Z. Gordon, and N. G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H. Full-fashioned hosiery. 2,534,689, Dec. 19.

Wilhide, Glenn C., Towson, Md., assignor to The Black and Decker Manufacturing Company. Cup brush. 2,534,891, Dec. 19.

Wilhide, Glenn C., Towson, Md., assignor to The Black and Decker Manufacturing Company. Wire wheel brush. 2,534,892, Dec. 19.

Wilkerson, Jefferson R., Bayside, N. Y., assignor to The Sperry Corporation. Synchronizer circuit. 2,534,329, Dec. 19.

Wilks, Howard J.: *See*—
Smith, William P., and Wilks.

Williams, August L., Chicago, Ill. Animal shipping crate. 2,534,492, Dec. 19.

Williams, Ivan A., Portland, assignor to Cushion Grip National, Salem, Oreg. Bag handle feeding machine. 2,534,893, Dec. 19.

Willits, Glenn D., Leo, Ind., assignor to General Electric Company. Stator for universal electric motors. 2,535,004, Dec. 19.

Willson Products, Inc., assignee: *See*—
Loose, Winfield W.
Willson, Thomas A.

Willson, Thomas A., Wyomissing, assignor to Willson Products, Inc., Reading, Pa. Sunglasses. 2,534,748, Dec. 19.

Wilson, Herman W., and J. E. Heyworth, assignor to Republic Steel Corporation, Cleveland, Ohio. Open-hearth door construction. 2,534,747, Dec. 19.

Wilson, William H.: *See*—
Satchwell, Leonard, and Wilson.

Windalume Corporation, assignee: *See*—
Kirschstein, Julius, and Faffel.

Wiprud, Clarence W., Corvallis, Oreg. Dental appliance. 2,535,005, Dec. 19.

Wisconsin Alumni Research Foundation, assignee: *See*—
Johnson, William S., Petersen, and Gutsche.

Witherspoon, John C., *See*—
Kay, Charles M., and Witherspoon.

Witschi, Frederick, New York, N. Y. Apparatus for waving hair. 2,534,649, Dec. 19.

Wittman, Sylvester J., *See*—
Meiklejohn, Thomas W., Jr., and Wittman.

Womack, Jewel J.: *See*—
Womack, Leonard T. and J. J.

Womack, Leonard T. and J. J., Carpinteria, Calif. Hydroelectric gearshift. 2,534,493, Dec. 19.

Wong, Kuoyee, Hong Kong, China. Chinese typewriter. 2,534,330, Dec. 19.

Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,534,937, Dec. 19.

Woods, Edgar C., assignor to Henry Simon Limited, Stockport, England. Vulcanizing apparatus. 2,534,845, Dec. 19.

Woodward, David W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 4,5-Imidazoledicarbonitrile and preparation. 2,534,331, Dec. 19.

Woodward, David W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 2-oxoimidazolines and preparing the same. 2,534,332, Dec. 19.

Woodward, David W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 2-oxo-5-cyano-4-imidazolinecarbonamide, salts thereof, and their preparation. 2,535,006, Dec. 19.

Woodward, George C., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,534,938, Dec. 19.

Worthen, Stephen V., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Planographic printing plate and making same. 2,534,650, Dec. 19.

Wright, Margaret K., Knoxville, Tenn. Adjustable baby's bootee blocking form. 2,534,749, Dec. 19.

Wyrick, Clayton E., deceased, Miami, Fla.; M. R. Wyrick, executrix of said C. E. Wyrick, assignor to Hopkins-Wyrick Laboratories, Inc., Miami, Fla. Turret. 2,534,333, Dec. 19.

Wyrick, Mary R., executrix: *See*—
Wyrick, Clayton E.
Yantis, Robert F.: *See*—
Oatis, Henry O., and Yantis.
Yapp, Thomas A., assignor to The Hercules Cycle and Motor Company Limited, Birmingham, England. Control for variable-speed gears on cycles. 2,534,566, Dec. 19.
Yarnell, Howard W.: *See*—
Lorenz, Otto A., and Yarnell.
Yeater, Max L.: *See*—
Gaertner, Erwin R., and Yeater.
Yelland, William E. C.: *See*—
Darling, Elton R., and Yelland.
Yerkovich, Simon: *See*—
Roberts, Frederick W., and Yerkovich.
Young, John, Jr., South Gate, and R. J. Bower, Los Angeles, Calif., assignors to Hughes Tool Company, Houston, Tex. Tube support. 2,534,690, Dec. 19.
Younghusband, James L., Chicago, Ill. Rearview mirror. 2,534,495, Dec. 19.
Zabel, William P., Jr., Cleveland Heights, Ohio. Tape applicator. 2,534,691, Dec. 19.
Zedler, Arthur O., Yonkers, N. Y. Christmas tree or antenna stand with suction base. 2,534,894, Dec. 19.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Telegraph transmitter. 2,534,494, Dec. 19.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gate for harness horses, Starting. S. G. Phillips. Re. 23,308, Dec. 19.
Insulator, Standoff. K. Eriksen and C. W. Concelman. Re. 23,310, Dec. 19.
Lifting and lowering mechanism, Fluid actuated load. I. A. Weaver. Re. 23,309, Dec. 19.

LIST OF PLANT INVENTIONS

Rose plant. H. M. Eddie. 144,074, Dec. 19.

LIST OF DESIGN INVENTIONS

Adz, Hand. M. Phillips. 161,279, Dec. 19.
Altar, Miniature. B. A. Johnson. 161,267, Dec. 19.
Antenna, Television receiving. J. Y. Resnick. 161,282, Dec. 19.
Ash tray and cigarette holder, Combined adjustable. I. L. Silver. 161,292, Dec. 19.
Awning. R. L. Friend. 161,254, Dec. 19.
Billfold, coin purse, and cardcase, Combined. D. B. Jeffery. 161,264, Dec. 19.
Brooch or similar article. M. Boucher. 161,238, Dec. 19.
Brooch or similar article. M. Boucher. 161,240, Dec. 19.
Bucket or the like, Ice. M. S. Ziskin and R. B. Billig. 161,298, Dec. 19.
Cabinet, Television. R. A. Carrier. 161,245, Dec. 19.
Carrier, Golf club. H. W. Darr. 161,249, Dec. 19.
Casing for toaster. I. Jepson. 161,265, Dec. 19.
Clip or similar article. R. Semensohn. 161,287, Dec. 19.
Commode, Bedside cabinet. W. S. Horn. 161,262, Dec. 19.
Darning attachment for sewing machines. H. H. Russell. 161,284, Dec. 19.
Dispenser, Fruit juice. R. Linneman. 161,271, Dec. 19.
Display stand, Match book. J. Shapiro. 161,290, Dec. 19.
Doll head. L. F. Eades. 161,251, Dec. 19.
Earring or similar article. M. Boucher. 161,239, Dec. 19.
Earring or similar article. M. Boucher. 161,241, Dec. 19.
Earring or similar article. R. Semensohn. 161,286, Dec. 19.
Earring or similar article. R. Semensohn. 161,288–9, Dec. 19.
Emblem plate, Automobile. W. B. R. Bell. 161,232, Dec. 19.
Game apparatus. J. Berkowitz. 161,233, Dec. 19.
Game board. E. E. Darr. 161,248, Dec. 19.
Golf tee. S. J. Rogers. 161,283, Dec. 19.
Grinder, Food. R. N. Kircher and L. E. Finch. 161,270, Dec. 19.
Handle, Basket. W. T. Jones. 161,268, Dec. 19.
Heater or similar article, Overhead radiant space. H. R. Greene. 161,259–60, Dec. 19.
Holder, Candle. R. Törnström. 161,295, Dec. 19.
Holder, Electric lamp. C. J. Sternaman. 161,294, Dec. 19.
Holder, Yarn. A. B. Delucchi. 161,250, Dec. 19.
Lamp or similar article, Table. B. B. Gilmore. 161,256, Dec. 19.
Macaroni. F. D. Femina. 161,252, Dec. 19.
Mat or similar article, Table. G. A. Chiniquy. 161,247, Dec. 19.
Necktie. P. Karp. 161,269, Dec. 19.
Plant protector. E. V. Alvarez. 161,231, Dec. 21.
Plate or similar article. E. K. and M. Shaw and R. Y. Allen. 161,291, Dec. 19.
Plate or similar article, Dinner. D. Bourne. 161,242–4, Dec. 19.
Plate or similar article, Dinner. R. H. Garvin. 161,255, Dec. 19.
Plate or similar article, Dinner. C. H. McKaig. 161,272–4, Dec. 19.
Playing cards, Set of. J. Simoes, Jr. 161,293, Dec. 19.
Rack for playing cards. C. A. Bissman. 161,236, Dec. 19
Scarf. T. L. Ofria. 161,276–8, Dec. 19.
Scraper and coin holder, Combined. K. R. Hagen. 161,261, Dec. 19.
Sewing machine. R. Casas. 161,246, Dec. 19.
Shelf, Portable nursery. M. Grabol. 161,258, Dec. 19.
Shirt or the like, Sport. V. G. Boehnlein. 161,237, Dec. 19.
Spectacles, Pair of. J. R. Watkins. 161,297, Dec. 19.
Stand, Refreshment. A. H. Melcher and R. B. Bailey. 161,275, Dec. 19.
Stocking. I. Rabinovitz. 161,281, Dec. 19.
Teapot or the like. A. P. Freeman. 161,253, Dec. 19.
Threading device, Needle. C. A. Pinkham and B. Holohan. 161,280, Dec. 19.
Timer, Musical practice. P. F. D. Jansen. 161,263, Dec. 19.
Tire, Aircraft. C. A. Bigelow. 161,234–5, Dec. 19.
Toaster. I. Jepson and R. D. Budlong. 161,266, Dec. 19.
Toothbrush and tube holder, Combination. M. M. Goodman. 161,257, Dec. 19.
Tray, Card. R. R. Russell. 161,285, Dec. 19.
Watchcase and bracelet, Combined. H. K. Tourneau. 161,296, Dec. 19.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 19TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive articles and backings for such articles, Coated. D. A. Waterfield. 2,534,805, Dec. 19.
Abrasive articles, Coated. C. S. Webber and W. F. Timmer. 2,534,806, Dec. 19.
Absorption refrigeration. G. W. Miller, E. L. Kells, and D. H. Larsen. 2,534,789, Dec. 19.
Acid initiation of amino acid N-carboanhydride condensation. R. N. MacDonald. 2,534,283, Dec. 19.
Actuating means for throwout crank arms of sliding doors. S. B. Haseltine. 2,534,443, Dec. 19.
Actuator, Differential. A. G. Russell. 2,534,376, Dec. 19.
Adapter. S. M. Kass. 2,534,912, Dec. 19.
Adjustable pipe rack. A. P. Robishaw. 2,534,682, Dec. 19.
Aerial, Directional. T. Kahan and A. Waché. 2,534,451, Dec. 19.
Aircraft, Rotary wing. S. Hiller, Jr., and H. H. Sigler. 2,534,353, Dec. 19.
Air deflector, Automobile window. C. H. Gillig. 2,534,348, Dec. 19.
Air venting and water overflow means for locomotive tenders. C. F. Kantola. 2,534,453, Dec. 19.
Aldehydic acid ester acetals, Producing. W. J. Croxall and H. J. Schneider. 2,535,012, Dec. 19.
Alkali metal borohydrides, Preparing. H. I. Schlesinger and H. C. Brown. 2,534,533, Dec. 19.
Altimeter and panoramic reception system, Radio. M. Wallace. 2,534,839, Dec. 19.
Ambrosia. J. I. Thompson and R. Flowers. 2,534,484, Dec. 19.
Amino-aldehyde resins, Plasticized. J. T. Stephan. 2,535,020, Dec. 19.
Ammunition, Thermit. M. E. Barker. 2,534,215, Dec. 19.
Amplifier for hydraulic governing systems, Pressure change. S. Jacobs. 2,534,974, Dec. 19.
Amplifier with separate channels for high and low frequencies, Video. O. H. Schade. 2,534,627, Dec. 19.
Amusement machine. F. J. Peacock. 2,534,730, Dec. 19.
Anchor and packer for use in wells, Combined. J. S. Page. 2,534,528, Dec. 19.
Animated figure device, Cord and spring. J. A. Simpson. 2,534,631, Dec. 19.
Antenna system. O. E. Klenow. 2,534,271, Dec. 19.
Antenna, Television. J. Goumas. 2,534,592, Dec. 19.
Apparatus for balancing rotors. H. M. Kroft and M. P. Vore. 2,534,918, Dec. 19.
Apparatus for calendering thermoplastic sheets. M. E. Pike and E. W. Lane. 2,534,296, Dec. 19.
Apparatus for coating paper. W. P. Taylor. 2,534,320, Dec. 19.
Apparatus for curing of tobacco. J. B. Moore, Jr. 2,534,618, Dec. 19.
Apparatus for forging parts showing important variations in their cross section. F. Meley. 2,534,613, Dec. 19.
Apparatus for handling gases. H. Hooper. 2,534,597, Dec. 19.
Apparatus for indicating the presence of inflammable vapors or gas. H. T. Ringrose. 2,534,796, Dec. 19.
Apparatus for manufacturing a continuous strip of solid alcohol. J. E. Schultze. 2,534,629, Dec. 19.
Apparatus for measuring air speed. J. W. Gray. 2,534,712, Dec. 19.
Apparatus for operating the gates or doors of elevators. C. O. Harmon. 2,534,596, Dec. 19.
Apparatus for polishing or forming facets on gems, diamonds, or the like. J. H. Spira. 2,534,384, Dec. 19.
Apparatus for shaping structural glass. J. M. McCormick. 2,534,523, Dec. 19.
Apparatus for televising data on a plan position indicator tube. H. O. Marcy, 3rd. 2,534,610, Dec. 19.
Apparatus for the regeneration of catalyst for use in the conversion of hydrocarbons. G. F. Kuhn. 2,534,778, Dec. 19.
Apparatus for transporting materials. M. F. Kemper. 2,534,270, Dec. 19.
Apparatus for waving hair. F. Witschl. 2,534,649, Dec. 19.
Applicator for duplicating machines, Liquid. H. A. Genz. 2,534,765, Dec. 19.
Applicator, Shielded. L. B. Grandjean. 2,534,439, Dec. 19.
Applicator, Tape. W. P. Zabel, Jr. 2,534,891, Dec. 19.
Applying binding elements to cords. F. W. Hennessey. 2,534,867, Dec. 19.
Article orienting apparatus. R. M. Magnuson. 2,534,362, Dec. 19.
Asbestos-rubber compositions, Production of. G. D'Ollier. 2,534,814, Dec. 19.
Asphalt bituminous bonding composition and preparation. L. J. Mitchell and H. J. Sommer. 2,534,828, Dec. 19.
Asphalt wetting agents. E. M. Hankins. 2,534,713, Dec. 19.
Atomizing device, Door operated. T. O. Marini. 2,534,465, Dec. 19.
Atomizing device, Door operated. T. O. Marini and L. Onorato. 2,534,464, Dec. 19.
Attachment for containers, including a reversible spout, Dispensing. S. B. Gersten. 2,534,434, Dec. 19.
Attachment for internal-combustion engines. G. F. Mooney. 2,534,983, Dec. 19.
Attachment for paint cans. P. G. Frank. 2,534,964, Dec. 19.
Attachment for sinks, Drip pan. E. Olson. 2,534,793, Dec. 19.
Automatic inverse feedback method and means for correcting response characteristic of phototube circuits. N. R. Gunderson. 2,534,668, Dec. 19.
Automatic pet feeder. F. A. Hedwall and E. Meyer. 2,534,444, Dec. 19.
Automatic repeating animal trap. L. C. Almond, Sr. 2,534,750, Dec. 19.
Automatic valve. E. J. Dillman. 2,534,251, Dec. 19.
Automobile dome light. K. E. Lyman. 2,534,921, Dec. 19.
Baby carriage, Collapsible. R. G. Ossbahr and O. L. Andersson. 2,534,986, Dec. 19.
Bag: *See*—
Garment bag.
Bag and apron, Convertible. R. K. Peek. 2,534,473, Dec. 19.
Bag handle feeding machine. I. A. Williams. 2,534,893, Dec. 19.
Balancing system for cleaning machine cylinders, Automatic. L. M. Kahn and E. Ellner. 2,534,269, Dec. 19.
Ball return means for pool tables. F. G. Holmes. 2,534,770, Dec. 19.
Ballast removing machine. D. M. Praytor and K. Kershaw. 2,534,880, Dec. 19.
Balloon load release. R. I. Hakomaki. 2,534,866, Dec. 19.
Bar stock machine, Automatic. E. J. Robichaud. 2,534,993, Dec. 19.
Battery electrolyte level indicator. W. A. Smith. 2,534,633, Dec. 19.
Battery, Storage. B. D. Emanuel. 2,534,582, Dec. 19.
Battery system, Stand-by. J. H. Bower. 2,534,542, Dec. 19.
Bearing: *See*—
Thrust bearing.
Bearing. A. G. M. Michell and A. J. Seggel. 2,534,788, Dec. 19.
Bearing. J. H. Schreiber. 2,534,379, Dec. 19.
Bearing. M. A. Schultz and C. M. Skinner, Jr. 2,534,929, Dec. 19.
Bed-couch. W. F. Schorn. 2,534,300, Dec. 19.
Bed, Foldable. M. B. Scott. 2,534,800, Dec. 19.
Bed, Revolving. L. M. Norheim. 2,534,471, Dec. 19.
Belt drive assembly. C. I. Place. 2,534,679, Dec. 19.
Benzene hexachloride, Photochemical production of. W. L. Towle. 2,534,485, Dec. 19.
Binder, Record. H. F. Kriegel. 2,534,522, Dec. 19.
Binocular. N. Kershaw and H. Ryder. 2,534,776, Dec. 19.
Blade, Hacksaw. E. Dryden. 2,534,424, Dec. 19.
Blowpipe apparatus. E. Meincke. 2,534,363, Dec. 19.
Board: *See*—
Glass cutting board.
Board attachment, Maneuvering. C. W. Merriam, Jr. 2,534,288, Dec. 19.
Boiler furnace. L. Satchwell and W. H. Wilson. 2,534,377, Dec. 19.
Bomb shackle. G. W. Wardwell, Jr. 2,534,744–5, Dec. 19.
Bomb sight, Synchronizing. T. H. Barth. 2,534,397, Dec. 19.
Bonding machine. H. Hacklander and C. P. Sweeny. 2,534,593, Dec. 19.
Boning device, Fish. R. M. Berglund. 2,534,219, Dec. 19.
Bookrack, Self-closing. D. S. Kudrikoff. 2,534,456, Dec. 19.
Bootee blocking form, Adjustable baby's. M. K. Wright. 2,534,749, Dec. 19.
Bow sight. G. T. Bradley. 2,534,946, Dec. 19.
Box: *See*—
Collapsible box. Reinforced luggage box.
Box and support. M. M. Tierney. 2,534,742, Dec. 19.
Bracket: *See*—
Shelf bracket.
Brake: *See*—
Load compensated air Rod brake.
brake.
Brake lining, Molded. F. J. Laher and C. F. Kelleher. 2,534,607, Dec. 19.

Braking system for induction motors. J. F. H. Douglas, E. Pell, and E. W. Seeger. 2,534,423, Dec. 19.
Brassière. L. M. Marshall. 2,534,721, Dec. 19.
Brazing beryllium. J. G. Warner. 2,534,643, Dec. 19.
Bread, Making. H. C. Rhodes. 2,534,734, Dec. 19.
Bridge element for catamenial devices. E. Strouse. 2,534,885, Dec. 19.
Broach, Barrel bedding. R. A. Hagen. 2,534,816, Dec. 19.
Broad beam radiation detector, using ultraviolet as an intermediate step. F. B. Marshall. 2,534,922, Dec. 19.
Brush, Cup. G. C. Wilhide. 2,534,891, Dec. 19.
Brush, Wire wheel. G. C. Wilhide. 2,534,892, Dec. 19.
Building construction, Reinforced. H. Edwards. 2,534,580, Dec. 19.
Buoy, Inflatable radar reflector. E. L. Hudspeth and J. P. Nash. 2,534,716, Dec. 19.
Burner: *See*—
Safety gas burner.
Button feeding mechanism. A. Bellow and A. F. Carter. 2,534,753, Dec. 19.
Cabinet: *See*—
Towel dispensing cabinet.
Calculator, Triangle. W. H. Jensen. 2,534,601, Dec. 19.
Cam grinding device. E. C. Christian and J. C. Diehl. 2,534,231, Dec. 19.
Camera, Light concentrating reflector. J. T. Bullock. 2,534,543, Dec. 19.
Camera shutter and film actuating mechanism. P. S. Allen. 2,534,214, Dec. 19.
Camera with cutoff means, Automatic. R. M. Traversac. 2,534,537, Dec. 19.
Cap for collapsible tube dispensers. M. Broussard. 2,534,498, Dec. 19.
Capacity pickup follow-up system. W. K. Ergen. 2,534,505, Dec. 19.
Car: *See*—
Multitemperature refrigerator car.
Carbonization of coal in a fluidized bed. K. J. Nelson and H. Z. Martin. 2,534,728, Dec. 19.
Carrier: *See*—
Load carrier.
Carrier for capsules and the like. M. R. Fields. 2,534,815, Dec. 19.
Carrier for processing articles, Abrasive. J. Lupo. 2,534,282, Dec. 19.
Case: *See*—
Metal bottle case.
Casting glass. R. C. Cleveland and W. H. Said. 2,534,415, Dec. 19.
Catalyst system, Cascade. C. R. Carkeek. 2,534,853, Dec. 19.
Catalytic conversion of hydrocarbons. L. H. Beckberger. 2,534,752, Dec. 19.
Catch. A. R. Adams. 2,534,693, Dec. 19.
Cathode-ray device. D. H. Ring. 2,534,372, Dec. 19.
Cell, Primary galvanic. N. C. Cahoon. 2,534,336, Dec. 19.
Cell, Reversible displacement. W. J. Leas and W. D. Rose. 2,534,718, Dec. 19.
Cellulose esters, Producing mixed. G. A. Richter, Jr. 2,534,371, Dec. 19.
Centrifugal clutch. C. M. Eason. 2,534,426, Dec. 19.
Centrifugal extractor cover. A. G. Maitzen. 2,534,286, Dec. 19.
Ceramic insulating material and manufacturing same. E. J. W. Verwey and J. M. Stevels. 2,534,390, Dec. 19.
Chair: *See*—
Knockdown chair.
Chair and leg rest. L. E. Eeman. 2,534,581, Dec. 19.
Chair cover construction. C. L. Dewey. 2,534,502, Dec. 19.
Chair having spring supported back rest and seat. L. V. Cline. 2,534,574, Dec. 19.
Checking device, Crystal. C. L. Brown. 2,534,224, Dec. 19.
Chicken feeder. N. A. Lasater. 2,534,608, Dec. 19.
Choker trap. J. U. Lehn. 2,534,358, Dec. 19.
Christmas tree support. L. S. Groat. 2,534,349, Dec. 19.
Cigarette turning device. J. T. Dalton. 2,534,954, Dec. 19.
Circuit: *See*—
Cold cathode gas tube counting circuit. Keystoning circuit.
Control circuit. Signal storage circuit.
Synchronizer circuit.
Circuit and switching device, Trigger. C. E. Cleeton. 2,534,232, Dec. 19.
Circuit breaker. G. C. Woodward. 2,534,938, Dec. 19.
Circuit control for suction cleaners, Fluid actuated electric. R. G. Bielenberg. 2,534,400, Dec. 19.
Circuit controlled from station under test, Ringer test. P. W. Wadsworth. 2,534,564, Dec. 19.
Circuit for cathode-ray tubes and operating the same. W. H. Buchanan. 2,534,571, Dec. 19.
Circuit interrupter. J. M. Cumming and S. H. Boden. 2,534,901, Dec. 19.
Circuit interrupter. L. R. Ludwig and B. P. Baker. 2,534,920, Dec. 19.
Circuit interrupter, Shockproof. G. G. Grissinger, J. Sandin, and T. Lindstrom. 2,534,906, Dec. 19.
Circuit interrupter with speed control of contact. R. C. Van Sickle. 2,534,933, Dec. 19.
Cleaner: *See*—
Suction cleaner. Vacuum cleaner.
Clipper, Manually operated vegetation. C. T. Northquist. 2,534,924, Dec. 19.
Clock, Illuminated mirror. L. M. Owen. 2,534,877, Dec. 19.
Closure operator. J. F. Molloy. 2,534,525, Dec. 19.
Clutch: *See*—
Centrifugal clutch.
Clutch and brake control for automotive vehicles. S. G. Ghurye. 2,534,435, Dec. 19.
Clutch plate. H. V. Reed. 2,534,991, Dec. 19.
Coagulant and clarifying turbid water therewith. R. R. Magill. 2,534,284, Dec. 19.
Coating compositions, Liquid. E. L. Kropa and G. W. Barlow. 2,534,717, Dec. 19.
Coating method and apparatus. W. P. Taylor. 2,534,321, Dec. 19.
Coating paper. W. H. Barrett and B. K. Asdell. 2,534,848, Dec. 19.
Code signal discriminating device, Automatic. E. R. Shenk and J. C. Phelps. 2,534,388, Dec. 19.
Cold cathode gas tube counting circuit. C. J. Craft, 3rd. 2,534,856, Dec. 19.
Cold treating method and apparatus. P. M. Ahlstrand. 2,534,334, Dec. 19.
Collapsible box. F. Blair. 2,534,402, Dec. 19.
Collet with work grippers. F. F. Milligan. 2,534,616, Dec. 19.
Color filter. E. J. Ambrose, D. J. Pacey, and J. G. Salmon. 2,534,846, Dec. 19.
Combination contact plug. H. Weber. 2,535,002, Dec. 19.
Compass, Beam. A. Guiñez. 2,534,440, Dec. 19.
Composite refractory, Making. A. G. Allison and C. R. Austin. 2,534,652, Dec. 19.
Composite refractory, Making. C. R. Austin and H. Z. Schofield. 2,534,653, Dec. 19.
Composition for internal-combustion engines. D. H. Sheffield. 2,584,309, Dec. 19.
Composition for the treatment of plants and using same. S. B. Meeca. 2,534,787, Dec. 19.
Compounds of uranium and nonmetals, Preparation of. A. S. Newton and O. Johnson. 2,534,676, Dec. 19.
Compression relief for internal-combustion engines. B. C. Fisher. 2,534,860, Dec. 19.
Compressor. S. J. Steensen. 2,535,019, Dec. 19.
Computing level. L. A. Barnett. 2,534,216, Dec. 19.
Computing sight. L. H. Brown. 2,534,225, Dec. 19.
Concrete, Making porous. B. M. King, Jr. 2,534,915, Dec. 19.
Conduit snake. H. D. Norvelle. 2,534,472, Dec. 19.
Connecting device for telephone exchanges using a register. A. C. Jacobaeus. 2,534,822, Dec. 19.
Connector: *See*—
Electrical connector.
Connector. G. J. Hausman. 2,534,970, Dec. 19.
Connector with insulation piercing means, Electrical wire. H. J. Schroeder. 2,534,881, Dec. 19.
Container: *See*—
Drop dispensing container. Toilet paper container.
Control apparatus, Electronic. L. W. Marsh, Jr. 2,534,287, Dec. 19.
Control apparatus, Electronic. E. C. Thomson. 2,534,323, Dec. 19.
Control apparatus, Temperature. L. A. Cox. 2,534,416, Dec. 19.
Control circuit. J. L. Boyer and W. E. Pakala. 2,534,754, Dec. 19.
Control device, Automatic weight. R. R. Crookston 2,534,700, Dec. 19.
Control device for prime movers. E. J. Panish. 2,534,729, Dec. 19.
Control for variable-speed gears on cycles. T. A. Yapp. 2,534,566, Dec. 19.
Control means. R. J. Ifield. 2,534,821, Dec. 19.
Controller. C. F. Miller. 2,534,724, Dec. 19.
Controlling torch spacing, Method and apparatus for. G. M. Deming. 2,534,958, Dec. 19.
Conveyer. K. C. S. Aasted. 2,534,692, Dec. 19.
Conveyer mechanism for turning articles. F. F. Borkmann. 2,534,221, Dec. 19.
Conveying device. M. M. Guggenheim. 2,534,667, Dec. 19.
Cooling and dispensing system, Beverage. H. M. Braud. 2,534,570, Dec. 19.
Cooling apparatus. C. L. Ipsen and N. B. Jones. 2,534,973, Dec. 19.
Copolymers of isobutylene and an ester derived by esterifying abietyl alcohol and an α,β-ethylenically unsaturated carboxylic acid. G. E. Hulse. 2,534,447, Dec. 19.
Core analysis and apparatus therefor. W. D. Rose. 2,534,737, Dec. 19.
Corn picker snout, Adjustable. L. L. Spraker. 2,534,481, Dec. 19.
Corn snapping rolls. E. E. Shrader. 2,534,685, Dec. 19.
Corn starch, Making. E. R. Darling and W. E. C. Yelland. 2,534,249, Dec. 19.
Coupling arrangement, Wave guide. A. J. Ortusi and R. Paul. 2,534,876, Dec. 19.
Coupling: *See*—
Detachable coupling. Pipe coupling.
Implement coupling.
Coupling device, Overrunning rotary fluid. R. W. Jenny. 2,534,517, Dec. 19.

Cover: *See*—
Centrifugal extractor cover.
Cover for universal joints. G. B. Stillwagon, Jr. 2,534,635, Dec. 19.
Cradle having a removable crib. W. O. Gosselin. 2,534,438, Dec. 19.
Crate, Animal shipping. A. L. Williams. 2,534,492, Dec. 19.
Creaming of natural rubber latex. J. S. Rumbold. 2,534,374–5, Dec. 19.
Cup, Menstrual. L. W. Chalmers. 2,534,900, Dec. 19.
Cup, Weaning. B. M. Michael. 2,534,614, Dec. 19.
Curtain hanging device, Vertically adjustable. S. Mayer. 2,534,785, Dec. 19.
Cutter: *See*—
Pipe cutter.
Sod cutter.
Cutting section for chain saws. G. O. Geurian. 2,534,591, Dec. 19.
Cutting tool. C. D. Chandler. 2,534,230, Dec. 19.
Cutting tool. H. G. Duill. 2,534,759, Dec. 19.
Cyanine dyestuffs and intermediates containing aldehyde. J. D. Kendall and F. P. Doyle. 2,534,913, Dec. 19.
Cyclone separator. M. G. Driessen. 2,534,702, Dec. 19.
Cylinder balancing apparatus, Washing machine. L. M. Kahn. 2,534,267, Dec. 19.
Cylinder balancing apparatus, Washing machine. L. M. Kahn and E. Ellner. 2,534,268, Dec. 19.
Cylinder surface, Relieved and filled. H. M. Bramberry. 2,534,408, Dec. 19.
Damper for gyroscopes, Nutation. F. R. Fowler. 2,534,963, Dec. 19.
Damper preventing heat emanation from abnormal positioned heaters, Safety. G. J. Moeller. 2,534,556, Dec. 19.
Decoder. F. H. Wells. 2,534,746, Dec. 19.
Dental appliance. C. W. Wiprud. 2,535,005, Dec. 19.
Dental capsule filler for use by the dental profession, Universal. J. M. Shoemaker, Sr. 2,534,630, Dec. 19.
Depressants for DDT hydrocarbon solutions and fungicidal insecticides obtained thereby, Crystallization point. L. Liberthson and J. Faust. 2,534,277, Dec. 19.
Depressants for petroleum hydrocarbon solutions of para-dichlordiphenyl trichloroethane, Crystallization point. L. Liberthson and J. Faust. 2,534,278, Dec. 19.
Depth control for tractor-drawn implements. J. E. Englund. 2,534,761, Dec. 19.
Detachable coupling. J. M. Launder. 2,535,016, Dec. 19.
Detecting device for determining paintability of masonry surfaces, Vapor. L. Liberthson. 2,534,279, Dec. 19.
Detecting elementary particles. K. Sun. 2,534,932, Dec. 19.
Detecting hydrogen cyanide, Method and apparatus for. H. W. Carhart and J. A. Krynitsky. 2,534,229, Dec. 19.
Determining proportions in compositions of substances. G. Herzog. 2,534,352, Dec. 19.
Detoxifying poisonous compounds. A. Brasch. 2,534,222, Dec. 19.
Device comprising an electric discharge tube for ultra high frequencies. F. Coeterier. 2,534,545, Dec. 19.
Device for attaching propeller spinners. R. E. Froom. 2,534,662, Dec. 19.
Device for dispensing material contained in collapsible receptacles. J. Goodheart. 2,534,708, Dec. 19.
Device for displaying photographic transparencies. J. Silver. 2,534,561, Dec. 19.
Device for making strings of pressed articles. A. P. R. and R. W. H. Obermann. 2,534,678, Dec. 19.
Device for the continuous measuring of the thickness of a band in the rolling. P. Blain. 2,534,849, Dec. 19.
Die head with cam operated radial chasers, Rotating. H. V. Packer. 2,534,878, Dec. 19.
Digging machine, Power-operated posthole. A. Shacklette. 2,534,628, Dec. 19.
Digitalis extraction. O. Gisvold. 2,534,260, Dec. 19.
Diphenol compound composition for coccidiosis control. J. E. Johnson, Jr., and D. R. Mussell. 2,535,014–15, Dec. 19.
Discriminator, Pulse width. C. H. Hoeppner. 2,534,264, Dec. 19.
Dispenser: *See*—
Powder dispenser.
Dispensing apparatus, Beverage. O. L. Engstrom. 2,534,504, Dec. 19.
Dispensing machine for ice cream and sherberts. D. C. Maddux. 2,534,782, Dec. 19.
Display counter top. H. O. Oatis and R. F. Yantis. 2,534,620, Dec. 19.
Distillation. W. W. Kraft. 2,534,870, Dec. 19.
Distillation of fluorohydrocarbons. A. H. Friedman. 2,534,905, Dec. 19.
Dolly for house trailers. J. T. Conley and O. D. True. 2,534,575, Dec. 19.
Door construction, Open-hearth. H. W. Wilson and J. E. Heyworth. 2,534,747, Dec. 19.
Door hinge. W. Steinbach. 2,534,998, Dec. 19.
Double-action pump. G. D. Gibson. 2,534,436, Dec. 19.
Drapery fixture. J. A. Wersching. 2,534,491, Dec. 19.
Dress, Doll. E. L. McTammany. 2,534,827, Dec. 19.
Dress form. L. Cordell and L. S. Cordero. 2,534,757, Dec. 19.
Drill: *See*—
Masonry drill.
Drilling machine, Marine oil. J. Shannon. 2,534,480, Dec. 19.
Drop dispensing container. I. Silverman. 2,534,310, Dec. 19.
Drop-leaf extension table. L. T. Watts. 2,534,890, Dec. 19.
Dry resinate composition. E. S. Fenelon, Jr., and E. C. Howard. 2,534,703, Dec. 19.
Drying appliance for domestic use, Mechanical clothes. H. F. Houser. 2,534,771, Dec. 19.
Dust filter. H. R. Hutchings. 2,534,600, Dec. 19.
Dyeing process using azo dyes having naphtholsulfonamide groups, Single bath chrome. W. Widmer, A. Heckendorn, and E. Mannhart. 2,534,647, Dec. 19.
8-haloxanthine salts of α-phenyl-α-2-pyridylalkyl dialkylaminoalkyl ethers and the production thereof. J. W. Cusic. 2,534,238, Dec. 19.
8-haloxanthine salts of aminoalkyl phenothiazines and the production thereof. J. W. Cusic. 2,534,237, Dec. 19.
8-haloxanthine salts of cyclic-aminoalkyl benzohydryl ethers and the production thereof. J. W. Cusic. 2,534,813, Dec. 19.
8-haloxanthine salts of dialkylaminoalkyl o-benzylphenyl ethers and the production thereof. J. W. Cusic. 2,534,236, Dec. 19.
8-haloxanthine salts of dialkylaminoalkyl type antihistamine bases. J. W. Cusic. 2,534,235, Dec. 19.
8-haloxanthine salts of diarylalkyamines and the production thereof. J. W. Cusic. 2,534,239, Dec. 19.
8-haloxanthine salts of N,N-dialkyl-N′-arylmethyl-N′-pyrimidyl-alkylenediamines and preparing same. J. W. Cusic. 2,534,246, Dec. 19.
8-haloxanthine salts of N,N-dialkyl-N′-aryl-N′-thenylethylenediamines. J. W. Cusic. 2,534,241, Dec. 19.
8-haloxanthine salts of N,N-dialkyl-N′-pyridyl-N′-thenylalkylenediamines and the production thereof. J. W. Cusic. 2,534,240, Dec. 19.
8-haloxanthine salts of 1-aryl-1-pyridyl-3-dialkylaminoalkanes and the production thereof. J. W. Cusic. 2,534,243, Dec. 19.
8-haloxanthine salts of 1-diarylmethyl-4-alkylpiperazine. J. W. Cusic. 2,534,247, Dec. 19.
8-haloxanthine salts of 3′-dialkylaminomethyl-4,5,6-trihydroxybenzo-(1,2)-furan-1′-(3′)-ones. J. W. Cusic. 2,534,245, Dec. 19.
8-haloxanthine salts of 2-alkyl-9-phenyl-2,3,4,9-tetrahydro-1-pyridindenes and the production thereof. J. W. Cusic. 2,534,242, Dec. 19.
8-haloxanthine salts of 2-(phenylbenzylamino-methyl) imidazoline and the production thereof. J. W. Cusic. 2,534,244, Dec. 19.
Electric apparatus consisting of a support provided with a covering layer of poor conductivity. J. Kramer. 2,534,356, Dec. 19.
Electric induction apparatus. G. G. Somerville. 2,534,312, Dec. 19.
Electric power assistor, Manually controlled. E. G. Staude. 2,534,536, Dec. 19.
Electrical apparatus, Universal. D. M. Cargill. 2,534,951, Dec. 19.
Electrical connector. T. C. Freedom. 2,535,013, Dec. 19.
Electrical control means for baling presses and the like. A. C. Barrows. 2,534,751, Dec. 19.
Electrocoating method. G. C. Cox. 2,534,234, Dec. 19.
Electrode assembly for electrical discharge devices. E. J. Walsh. 2,534,393, Dec. 19.
Electrode holder. D. Murdock. 2,534,526, Dec. 19.
Electrode structure for glow discharge tubes. H. Epstein. 2,534,762, Dec. 19.
Electrodynamic pickup hearing U-shaped coil holder. S. M. Miller. 2,534,725, Dec. 19.
Electrolytic production of fluorine. C. F. Swinehart. 2,534,638, Dec. 19.
Electron discharge device, High-power water-cooled. C. E. Fay and D. A. S. Hale. 2,534,548, Dec. 19.
Electron discharge device of the velocity modulation type. G. C. Sziklai. 2,534,537, Dec. 19.
Electron tube. W. R. Ferris. 2,534,508, Dec. 19.
Engine: *See*—
Internal-combustion engine.
Eraser, Power-driven oscillating. P. C. Hutton. 2,534,773, Dec. 19.
Esterification with boron fluoridehydroxy polyether complexes. G. E. Serniuk and B. M. Vanderbilt. 2,534,304, Dec. 19.
Esters of alkoxy carboxylic acids, Producing. W. J. Croxall and J. O. Van Hook. 2,535,009, Dec. 19.
Etching apparatus, Automatic. F. Caroselli. 2,534,338, Dec. 19.
Excavating machine. W. E. Hume. 2,534,972, Dec. 19.
Exhibiting device, Poster. E. D. Branzell. 2,534,851, Dec. 19.
Exterminator, Animal. R. J. Courter. 2,534,699, Dec. 19.
Fabric tubing, Helically-seamed labeled. C. V. Brady and A. F. Ottinger. 2,534,755, Dec. 19.
Fastening device. E. Gisondi. 2,534,663, Dec. 19.
Fastening device comprising hook-and-eye elements. W. A. Barnes. 2,534,396, Dec. 19.
Faucet, Mixing and volume control. C. K. Brown, Jr. 2,534,658, Dec. 19.

Feeder: *See*—
Automatic pet feeder.
Chicken feeder.
Feeder for poultry, Grain. H. A. Harvey. 2,534,442, Dec. 19.
Fence section, Picket. B. M. Randall. 2,534,681, Dec. 19.
Filling device, Receptacle. G. W. Smith. 2,534,997, Dec. 19.
Filling valve. E. R. Gaerttner and M. L. Yeater. 2,534,965, Dec. 19.
Film guide for stripfilm projectors. F. J. Perillo. 2,534,732, Dec. 19.
Filter: *See*—
Color filter.
Ultra violet absorbing filter.
Dust filter.
Filter drum and shielding shoe. J. V. Vitalius and N. Klykken. 2,534,563, Dec. 19.
Filtering apparatus. K. L. Elilla. 2,534,760, Dec. 19.
Finishing treatment for asbestos ironer roll covers. G. C. Holroyd and J. M. Almand. 2,534,818, Dec. 19.
Firebox, Fabricated refractory metal. C. E. Schinman. 2,534,832, Dec. 19.
Fire extinguishing system. H. E. Heigis and C. W. Frese. 2,534,262, Dec. 19.
Firming fruit and vegetable slices. C. H. Hills. 2,534,263, Dec. 19.
Fish catcher, Automatic. W. E. Ramsey. 2,534,795, Dec. 19.
Fishhook, Bait retaining. C. A. Moore. 2,534,469, Dec. 19.
Fishhook releaser. J. C. Moore. 2,534,790, Dec. 19.
Fish lure. G. C. Terhorst. 2,534,482, Dec. 19.
Fish plug. E. C. Twist. 2,534,639, Dec. 19.
Fixture for fluorescent lamps. L. Ludwig. 2,534,361, Dec. 19.
Fixture for saw grinding, Attachment. M. Murphy. 2,534,470, Dec. 19.
Flag, Automobile driver's hand-signaling. J. Starkey. 2,534,313, Dec. 19.
Flashlight. S. J. Booth. 2,534,945, Dec. 19.
Float, Electric fishing line. W. S. Goertzen. 2,534,709, Dec. 19.
Flusher, Fluid operated toilet. J. F. Molloy. 2,534,524, Dec. 19.
Folding wing aileron control unit. H. P. Focht. 2,534,764, Dec. 19.
Food holding unit. L. R. Poirier and V. E. Provost. 2,534,680, Dec. 19.
Forceps, Veterinary. F. D. Randolph. 2,534,990, Dec. 19.
Formation of diether esters. W. J. Croxall and J. O. Van Hook. 2,535,011, Dec. 19.
Forming thermoplastic sheeting. W. R. Moss. 2,534,291, Dec. 19.
Fountain, Ink. C. W. Harrold. 2,534,670, Dec. 19.
4,5-imidazoledicarbonitrile and preparation. D. W. Woodward. 2,534,331, Dec. 19.
Fractional distillation. L. Kniel. 2,534,274, Dec. 19.
Fractionation of tyrothricin. A. L. Baron. 2,534,541, Dec. 19.
Frame: *See*—
Photomechanical printing frame.
Universal-type picture frame.
Frame for screens, Foldable. A. V. Ditty. 2,534,960, Dec. 19.
Free air temperature indicator. U. G. Hoffman. 2,534,265, Dec. 19.
Freight car unit, Self-contained refrigerating. H. W. Kleist. 2,534,273, Dec. 19.
Frequency-modulated magnetron microwave generator. J. S. Donal, Jr., R. R. Bush, and C. L. Cuccia. 2,534,503, Dec. 19.
Fruit press. G. F. Kahre. 2,534,554, Dec. 19.
Fuel injection apparatus. H. Hogeman. 2,534,553, Dec. 19.
Furnace: *See*—
Boiler furnace.
Smelting furnace.
Game apparatus, Rolling ball. W. Bolko. 2,534,404, Dec. 19.
Game, Table baseball. J. C. Mitchell. 2,534,468, Dec. 19.
Garage door track. C. J. Veigel. 2,534,641, Dec. 19.
Garbage disposal apparatus. R. L. Bissey. 2,534,944, Dec. 19.
Garment. R. M. Reid. 2,535,018, Dec. 19.
Garment bag. N. L. Schwartzman. 2,534,380, Dec. 19.
Garment construction and making same. P. Frankel. 2,534,863, Dec. 19.
Gas purifying method and apparatus. I. Roberts. 2,534,478, Dec. 19.
Gate construction, Adjustable tail. H. R. Rubenstein. 2,534,626, Dec. 19.
Gate latch keeper. A. B. Cleave. 2,534,414, Dec. 19.
Gauge: *See*—
Liquid level gauge.
Liquid measuring gauge.
Gauging apparatus for testing parallelism. A. G. Rose and K. H. Nicholls. 2,534,736, Dec. 19.
Gearshift, Hydroelectric. L. T. and J. J. Womack. 2,534,493, Dec. 19.
Gearshift transmission together with a combined fuel control element and manual gearshifter, Semiautomatic. J. A. H. Barkelj. 2,535,023, Dec. 19.
Gearing for internal-combustion engines, Starter. D. L. Miller. 2,535,017, Dec. 19.
Generator: *See*—
Frequency-modulated magnetron microwave generator.
Oscillation generator.
Sound generator.
Glass breaking hand tool. D. R. Corrado. 2,534,756, Dec. 19.
Glass cutting board. C. K. Judd, Jr. 2,534,775, Dec. 19.
Glass window seals, Making. E. J. Walsh. 2,534,392, Dec. 19.
Golf club head. E. M. Bright. 2,534,947, Dec. 19.
Grapple. W. T. Fulton. 2,534,512, Dec. 19.
Grille assembly, Vehicle radiator. W. H. Du Shane. 2,534,425, Dec. 19.
Grinding machine. W. H. Wood. 2,534,937, Dec. 19.
Grinding, Method and apparatus for. W. G. Baldenhofer. 2,534,941, Dec. 19.
Grinding mill control. F. C. Bond. 2,534,656, Dec. 19.
Guard, Knee. A. E. Vold. 2,534,888, Dec. 19.
Guide for drawers or shelves. N. A. Gussack. 2,534,350, Dec. 19.
Gun mount mechanism for controlling the aiming of a gun, Quadruple 20 millimeter. J. M. Ewart. 2,534,344, Dec. 19.
Gun sight. D. V. Gallery, Jr. 2,534,258, Dec. 19.
Gyroscope position indicating device. A. M. MacCallum. 2,534,463, Dec. 19.
Hair net for bobbed hair styles. A. M. Herschensohn. 2,534,351, Dec. 19.
Hammer for impact pulverizers. C. E. Sennholtz. 2,534,302, Dec. 19.
Hammer with attached wear member, Impact. C. E. Sennholtz. 2,534,301, Dec. 19.
Handling fine solids, Method and apparatus for. F. B. Allen. 2,534,807, Dec. 19.
Harness, Dog training. J. R. Moyle. 2,534,727, Dec. 19.
Harvester, Beet. C. W. Walz. 2,534,889, Dec. 19.
Harvester, Peanut. C. H. Bradley. 2,534,405, Dec. 19.
Heel-breasting machine. F. A. Eich and N. A. Monfils. 2,534,343, Dec. 19.
High-frequency electron discharge tube. M. J. O. Strutt, A. van der Ziel, and K. S. Knol. 2,534,836, Dec. 19.
Hinge for plastic receptacles. A. H. Radde. 2,534,989, Dec. 19.
Hoist control for dredge draglines, Synchronized. G. E. King. 2,534,917, Dec. 19.
Hoist, Power-operated two-speed. G. E. Moore. 2,534,726, Dec. 19.
Holder: *See*—
Electrode holder.
Tube holder.
Electrodynamic pickup hearing U-shaped coil holder.
Work holder.
Holder for circular lamps, Lamp. F. C. Dazley. 2,534,955, Dec. 19.
Holder for circular tubular lamps, Lamp. J. M. Pistey and F. C. De Reamer. 2,534,956, Dec. 19.
Holder for milk can washing machines, Cheese hoop. A. Farrar. 2,534,345, Dec. 19.
Hook: *See*—
Lifting hook.
Pipe hook.
Hosiery, Full-fashioned. A. Wilcher and M. J. Gordon. 2,534,689, Dec. 19.
Housing, Plug-in magnetic switch. A. C. Keller. 2,534,354, Dec. 19.
Humidifier, Cigarette. G. Otallah. 2,534,829, Dec. 19.
Hydraulic brake check valve. J. Lichtman. 2,534,871, Dec. 19.
Hydraulic brake level indicator. D. Sebastian, R. H. Hampton, and B. J. Heggen. 2,534,381, Dec. 19.
Hydrocarbon conversion, Method and apparatus for. L. P. Evans. 2,534,859, Dec. 19.
Hydroxy polyesters. E. M. Filachione, M. L. Fein, and C. H. Fisher. 2,534,255, Dec. 19.
Implement coupling. P. Henriod. 2,534,971, Dec. 19.
Incinerator, Electrical. M. D. Curry. 2,534,953, Dec. 19.
Indicator: *See*—
Battery electrolyte level indicator.
Hydraulic brake level indicator.
Free air temperature indicator.
Response curve indicator.
Indicator for sewing machines, etc., Faulty thread. A. E. Stevens. 2,534,999, Dec. 19.
Inhibiting foaming in steam boilers, Method of and composition for. L. O. Gunderson. 2,534,441, Dec. 19.
Injection device for concrete mixers, Water. L. G. Hilkemeier. 2,534,445, Dec. 19.
Insecticidal composition comprising DDT and methoxychlor. R. A. Sturdy. 2,535,000, Dec. 19.
Insecticide comprising benzene hexachloride and tar oils. N. F. Rea. 2,534,926, Dec. 19.
Insole, Cushion. H. G. Lumbard. 2,534,462, Dec. 19.
Instrument, Gyroscopic. H. C. Wendt. 2,535,003, Dec. 12.
Instrument, Musical. C. C. Dargis. 2,534,417, Dec. 19.
Integrated calcium silicate bodies, Making. N. S. Serinis. 2,534,303, Dec. 19.
Internal-combustion engine. W. N. Fenney. 2,534,346, Dec. 19.
Inversion of sucrose. W. A. Blann. 2,534,694, Dec. 19.
Iron: *See*—
Soldering iron.
Isolating quercitrin. F. De Eds and A. N. Booth. 2,534,250, Dec. 19.

Jack, Hydraulic. J. Lichtman. 2,534,872, Dec. 19.
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Jack, Hydraulic. J

Jack for pumps and the like, Power. R. T. Cruikshank. 2,534,428, Dec. 19.
Jacket with removable lining. C. S. Lapedes. 2,534,978, Dec. 19.
Jaw for meter bores and the like, Reversible. E. G. Johansson. 2,534,449, Dec. 19.
Jet propulsion for ships, Hydraulic. J. F. Hedden. 2,534,817, Dec. 19.
Jig for molds, Insert applying. O. Brummer and E. F. Heimbuch. 2,534,948, Dec. 19.
Ketene-aldehyde modified alkyd mixed esters. L. Shechter and J. M. Whelan, Jr. 2,534,307, Dec. 19.
Ketene-aldehyde modified oils. L. Shechter and J. M. Whelan, Jr. 2,534,306, Dec. 19.
Keystoning circuit. W. J. Ostreicher. 2,534,557, Dec. 19.
Kiln, Electrically heated tunnel. G. N. Jeppson. 2,534,518, Dec. 19.
Knife, Corn. A. D. Grisso. 2,534,666, Dec. 19.
Knockdown chair. E. F. Cenia. 2,534,413, Dec. 19.
Laminated product. H. W. Mohrman. 2,534,617, Dec. 19.
Lamp filament joints, Method and apparatus for making. A. H. Weber. 2,534,540, Dec. 19.
Latch: *See*—
Meeting rail latch.
Latch adapted for handbags and the like, Safety. R. Marogg. 2,534,783, Dec. 19.
Latch opener. R. Epstein. 2,534,584, Dec. 19.
Lathe, Bark removing. E. Haumann. 2,534,671, Dec. 19.
Leak detector. F. G. Philo. 2,534,830, Dec. 19.
Lever and link feed sliding jaw wrench. M. A. Napier. 2,534,985, Dec. 19.
Lever guide, Flush tank. S. Gertz. 2,534,705, Dec. 19.
Lift tow hitch. L. O. Greeley. 2,534,665, Dec. 19.
Lifting hook. P. Niemi. 2,534,619, Dec. 19.
Light: *See*—
Automobile dome light. Welder's inspection light.
Light construction, Trouble. A. Miller. 2,534,875, Dec. 19.
Lighting unit. R. A. Reid. 2,534,992, Dec. 19.
Line feed release mechanism. O. A. Lorenz and H. W. Yarnell. 2,534,461, Dec. 19.
Liquid level gauge. S. J. Smith. 2,534,802, Dec. 19.
Liquid measuring gauge. C. M. Welch. 2,534,644, Dec. 19.
Lithium hypochlorite composition, Stable. J. D. MacMahon. 2,534,781, Dec. 19.
Load carrier. E. M. Perrotta and G. M. Parkrose. 2,534,367, Dec. 19.
Load compensated air brake. L. I. Pickert. 2,534,622, Dec. 19.
Lock for detachable strap handles. W. Castedello and W. G. Lohmeyer, Jr. 2,534,810, Dec. 19.
Locking device for nuts and bolts. L. F. Howard. 2,534,446, Dec. 19.
Loom shuttle. D. E. Houghton. 2,534,598, Dec. 19.
Lubricant comprising reaction product of an olefin, a phosphorus sulfide, and water. J. D. Bartleson. 2,534,217, Dec. 19.
Machine for cracking and flaring blanks. C. Eisler. 2,534,547, Dec. 19.
Machine for grinding internal cone surfaces. W. Rossmanith. 2,534,531, Dec. 19.
Machine for perforating a tape, feeding it, and attaching snap fasteners thereto. C. L. Loverch. 2,534,360, Dec. 19.
Machine for straightening can body flanges. S. Birkland. 2,534,220, Dec. 19.
Magnetic fuel pump. M. Katcher. 2,534,520, Dec. 19.
Magnetic structure for speakers. G. S. Holly. 2,534,819, Dec. 19.
Mask, Printing. H. Dunn. 2,534,961, Dec. 19.
Mask, Submarine. N. Bedini, R. Vesigna, and P. Giuliani. 2,534,568, Dec. 19.
Masonry drill. S. Brown. 2,534,809, Dec. 19.
Massage apparatus, Foot. P. Burnett and O. C. Buike. 2,534,412, Dec. 19.
Massaging and stretching machine. R. P. Fisher and J. P. Geiger. 2,534,587, Dec. 19.
Material handling mechanism, Constant tension elongated. V. A. Agresti. 2,534,496, Dec. 19.
Meat-tenderizing machine. M. Lang. 2,534,357, Dec. 19.
Mechanical duck. C. E. Mann. 2,534,609, Dec. 19.
Meeting rail latch. H. A. Kaufmann. 2,534,605, Dec. 19.
Metal article and making the same, Coated. H. M. Bramberry. 2,534,406, Dec. 19.
Metal bottle case. G. T. Powell, Jr. 2,534,879, Dec. 19.
Metal recovering machine. E. J. Ohman. 2,534,294, Dec. 19.
Meter for measuring a predetermined volume, Liquid flow. C. C. S. Le Clair. 2,534,979, Dec. 19.
Milling head. S. I. Sherr. 2,534,882, Dec. 19.
Mineral oil composition containing thienyl sulfides. J. W. Brooks and A. N. Sachanen. 2,534,223, Dec. 19.
Mirror, Rearview. J. L. Younghusband. 2,534,495, Dec. 19.
Mirror with replaceable reflector, Dental. L. L. Gittelson. 2,534,706, Dec. 19.
Mitt, Drying and polishing. A. Mayes. 2,534,982, Dec. 19.
Modification of B. A.-type wool. S. E. Swanson. 2,535,022, Dec. 19.
Modification of B. A.-type wool to impart harshness and low luster thereto. S. E. Swanson. 2,534,317, Dec. 19.
Modification of B. A. type wools. S. E. Swanson. 2,534,319, Dec. 19.
Modification of wool to increase its harshness and fullness and to decrease its luster. S. E. Swanson. 2,534,314, Dec. 19.
Modifying B. A.-type wool to impart harshness and low luster thereto. S. E. Swanson. 2,534,318, Dec. 19.
Modulator, Line pulse. J. E. Gorham and W. T. Silver. 2,534,261, Dec. 19.
Moistening device for duplicating machines. A. V. Ditty. 2,534,422, Dec. 19.
Molded articles, Manufacture of. T. Holzer. 2,534,908, Dec. 19.
Molding machine, Impact. H. W. Dietert and R. E. Steinmueller. 2,534,421, Dec. 19.
Molding, Method and apparatus for. H. M. Purcell. 2,534,988, Dec. 19.
Monoazo-dyestuffs. W. Widmer, A. Heckendorn, and E. Mannhart. 2,534,046, Dec. 19.
Monochromator. E. E. Bray. 2,534,657, Dec. 19.
Motor control, Photoelectric. S. V. Hart. 2,534,759, Dec. 19.
Motor control system, Electric. H. A. Siltamaki. 2,534,801, Dec. 19.
Motor disconnect for suction cleaners, Handle actuated delayed. W. D. Sellers. 2,534,479, Dec. 19.
Mount for rotating parts. W. A. Scott. 2,534,738, Dec. 19.
Mounting corner, Photographic. G. F. Lartz. 2,534,919, Dec. 19.
Mounting for high-power electron discharge devices, Electrode. V. L. Ronci. 2,534,373, Dec. 19.
Muconic acid and its derivatives, Producing. A. Wacek. 2,534,212, Dec. 19.
Multiple platen press. E. J. Way. 2,534,325, Dec. 19.
Multitemperature refrigerator car. H. W. Kleist. 2,534,272, Dec. 19.
Multivolt electron discharge tube. P. M. G. Toulon. 2,534,688, Dec. 19.
N-alkyl acrylamides, Producing. J. G. Erickson. 2,534,585, Dec. 19.
N-phenethyl-beta-alanine derivatives. R. Baltzly, A. P. Phillips, and L. O. Randall. 2,534,567, Dec. 19.
Navigational device, Gyroscopic. M. Jones. 2,534,824, Dec. 19.
Necktie. H. C. Hall. 2,534,669, Dec. 19.
Necktie retainer. I. R. Lang. 2,534,457, Dec. 19.
Nicotine compounds containing univalent copper. C. R. Smith. 2,534,835, Dec. 19.
Octahydrophenanthrene-2-carboxylic acids and derivatives thereof. K. Miescher, J. Heer, J.-R. Billeter, and G. Anner. 2,534,466, Dec. 19.
Oil, Watch. J. S. Martin, Jr. 2,534,611, Dec. 19.
Oiler device. F. W. Edwards. 2,534,427, Dec. 19.
1 - keto - 2 - hydroxymethylene - 7 - or - 1,2,3,4 - tetrahydrophenanthrenes. W. S. Johnson, J. W. Petersen, and C. D. Gutsche. 2,534,823, Dec. 19.
Operating Diesel-type internal-combustion engines. F. A. Thaheld. 2,534,322, Dec. 19.
Operating open-hearth furnaces. C. M. Kay and J. C. Witherspoon. 2,534,454, Dec. 19.
Ophthalmic device. C. A. Baratelli. 2,534,655, Dec. 19.
Oscillation generator. L. A. King. 2,534,521, Dec. 19.
Ottoman, Floating. E. C. Burden. 2,534,499, Dec. 19.
Oxadiazolopyrimidines and preparing the same. J. H. Boothe and C. W. Waller. 2,534,897, Dec. 19.
Oxygen regulator. G. M. Deming and J. Gilroy. 2,534,959, Dec. 19.
Packing construction for pumps or the like. A. B. Perry and L. S. Hamer. 2,534,530, Dec. 19.
Packing fluid substances in cans. J. Felber. 2,534,254, Dec. 19.
Pad: *See*—
Rayon-yarn basing pad.
Pad for wind instruments, Stop. J. A. Collis. 2,534,660, Dec. 19.
Paintbrush with rotatable and yielding guide for striping, Fountain. W. J. Gebien. 2,534,589, Dec. 19.
Pebble heating chamber. S. P. Robinson. 2,534,625, Dec. 19.
Pedal arrangement for controlling phonograph transcriber switches, Foot. R. L. Stone and F. E. Runge. 2,535,021, Dec. 19.
Pedal control for rheostats. E. H. Alkire. 2,534,939, Dec. 19.
Periscope, Submarine. J. M. Strang. 2,534,884, Dec. 19.
Phonograph and radio, Combined automatic. C. Simmons. 2,534,930, Dec. 19.
Phonograph with separate stylus for recording and reproducing, Electric. L. P. Petruschell. 2,534,368, Dec. 19.
Photo film processing apparatus. C. Katzen and T. R. Games. 2,534,604, Dec. 19.
Photographic elements, Manufacturing. C. Weaver. 2,534,326, Dec. 19.
Photographic emulsion, Stabilized gelatino silver halide. D. J. T. Howe. 2,534,599, Dec. 19.
Photographic emulsions, Preparation of. C. F. Glick and P. M. Nicholes. 2,534,707, Dec. 19.
Photomechanical printing frame. J. D. Maxwell. 2,534,784, Dec. 19.
Pickup device and system, Vibration. J. H. Lancor, Jr. 2,534,276, Dec. 19.
Picker stick. T. R. Wageley. 2,534,487, Dec. 19.
Pipe: *See*—
Smoking pipe.
Pipe bending machine. B. V. Elliott. 2,534,429, Dec. 19.

Pipe coupling. D. E. Meese. 2,534,723, Dec. 19.
Pipe cutter. G. P. Ellis. 2,534,858, Dec. 19.
Pipe hook. A. Silberman. 2,534,739, Dec. 19.
Piperazine derivatives. R. M. Jacob and J. Robert. 2,534,774, Dec. 19.
Piston. E. E. Chatterton. 2,534,573, Dec. 19.
Pivot for ventilator panels, Variable friction. G. M. Lane and H. G. Thunder. 2,534,779, Dec. 19.
Plate construction, Metallic. A. A. Smith. 2,534,311, Dec. 19.
Plate for fence posts, Reinforcing. A. E. Brickman. 2,534,410, Dec. 19.
Plate inserter and ejector for embossing machines, Automatic. P. R. Seward. 2,534,834, Dec. 19.
Plug: *See*—
Combination contact plug. Fish plug.
Pocket construction, Garment. L. Berman. 2,534,335, Dec. 19.
Polymeric compounds, Production of. H. D. Noether. 2,534,366, Dec. 19.
Polymerization of olefins in fluorinated diluent. J. D. Salfee and R. M. Thomas. 2,534,698, Dec. 19.
Poly-sulfone amide polymers, Production of. J. W. Fisher and E. W. Wheatley. 2,534,347, Dec. 19.
Portable projection picture screen support. J. T. Heck, L. J. Du Mais, and C. O. Talbot. 2,534,552, Dec. 19.
Powder dispenser. F. E. Stirn. 2,534,636, Dec. 19.
Power system for aircraft, Auxiliary. B. O. Austin, O. C. Walley, and D. W. Exner. 2,534,895, Dec. 19.
Power system for railway cars, Head-end. R. E. Burkhardt and G. R. Purifoy. 2,534,898, Dec. 19.
Power transmission fluids. W. P. Smith and H. J. Wilks. 2,534,803, Dec. 19.
Power unit. F. P. Gerhardt. 2,534,590, Dec. 19.
Precision electrical resistance device and making it. B. B. Scott, G. F. Greene, and A. D. Coggeshall. 2,534,994, Dec. 19.
Preparing protein from vegetable sources. F. E. Calvert. 2,534,226–7, Dec. 19.
Preservation of latex. C. E. Linscott. 2,534,359, Dec. 19.
Preservation of latex. C. E. Rhines and C. E. Linscott. 2,534,370, Dec. 19.
Press: *See*—
Fruit press. Multiple platen press.
Presser bar control for sewing machines. R. L. Abos, L. M. Stanfield, and R. B. Myers. 2,534,651, Dec. 19.
Presser foot for sewing machines. J. L. Luna. 2,534,281, Dec. 19.
Pressure sealing means for valves. E. W. Prout. 2,534,477, Dec. 19.
Primary cell. I. C. Blake and J. B. Mullen. 2,534,403, Dec. 19.
Printer, Photomechanical. F. T. Powers, Sr. 2,534,794, Dec. 19.
Printing apparatus, List. O. C. Moll. 2,534,364, Dec. 19.
Printing plate and making same, Planographic. S. V. Worthen. 2,534,650, Dec. 19.
Printing plate, Paper base planographic. F. H. Frost. 2,534,588, Dec. 19.
Printing system, Morse code. L. A. Thomas, J. A. Spencer, and E. R. Shenk. 2,534,387, Dec. 19.
Procedure for making fodder meal and oil from animal raw materials. O. Valen. 2,534,640, Dec. 19.
Producing substantially colorless proteins from oleaginous seed material. F. E. Calvert. 2,534,228, Dec. 19.
Projector strip film advancing and framing mechanism. F. J. Perillo. 2,534,731, Dec. 19.
Protector: *See*—
Window display protector.
Protector for vacuum insulated vessels, Exhaust tip. A. H. Payson and L. J. Darmstadt. 2,534,295, Dec. 19.
Pulldown device for rotary drilling apparatus. E. L. Alexander. 2,534,213, Dec. 19.
Pulse producing apparatus. L. A. Meacham. 2,534,872, Dec. 19.
Pump: *See*—
Double-action pump. Magnetic fuel pump.
Pumping machine, Tube flexing. E. R. Cornell. 2,534,855, Dec. 19.
Punch and stripper, Hydraulic. O. Mueller. 2,534,292, Dec. 19.
Purifying hydrocarbon liquids. G. P. Ham and R. B. Barnes. 2,534,907, Dec. 19.
Pyridine derivatives, Production of. J. E. Mahan. 2,534,285, Dec. 19.
Rack: *See*—
Adjustable pipe rack.
Radio direction finder. C. Granqvist. 2,534,711, Dec. 19.
Radio ranging system with selective automatic volume control and range following. A. G. Fox. 2,534,862, Dec. 19.
Radio receiver, Double superheterodyne. F. A. Kolster. 2,534,606, Dec. 19.
Radio system for providing vertically separated airways. M. Wallace. 2,534,840, Dec. 19.
Ratchet mechanism. H. H. Burdett. 2,534,572, Dec. 19.
Ratchet mechanism for calking guns. S. Crewe. 2,534,857, Dec. 19.
Rayon-yarn basing pad. G. F. Dennis. 2,534,579, Dec. 19.
Razor, Safety. F. A. Weeks. 2,534,490, Dec. 19.
Razor with nonreplaceable blade, Foldable safety. A. Foltis. 2,534,861, Dec. 19.
Reaction furnace and recovery units. S. L. Nevins and J. S. Gilliam, Jr. 2,534,792, Dec. 19.
Reciprocating device. S. J. Bergeson. 2,534,943, Dec. 19.
Recorder, Radar azimuth and distance indication. H. Hurvitz. 2,534,820, Dec. 19.
Recorder, Telemetric pulse time position. M. Wallace. 2,534,841, Dec. 19.
Recording instrument mechanism. H. L. Bowditch. 2,534,569, Dec. 19.
Recovery of alcohol from a ternary solution. E. A. Gee and J. V. Bossche. 2,534,259, Dec. 19.
Rectifier, High-voltage. O. H. Schade. 2,534,532, Dec. 19.
Rectum fitting. L., S. M., and G. Gottlieb. 2,534,664, Dec. 19.
Refining apparatus. R. H. Fash. 2,534,253, Dec. 19.
Refining oil with a solvent. G. B. Arnold and W. E. Skelton. 2,534,383, Dec. 19.
Refining oil with a solvent. W. E. Skelton and G. B. Arnold. 2,534,382, Dec. 19.
Refining rutin. C. F. Krewson, J. Naghski, and W. L. Porter. 2,534,275, Dec. 19.
Reflector, Buoy supported collapsible radar. S. E. Golian and R. M. Whitmer. 2,534,710, Dec. 19.
Refractory composition and product, Vitrifying. H. L. Whitman. 2,534,327–8, Dec. 19.
Refrigerant expansion device. G. Mettler. 2,534,874, Dec. 19.
Refrigerated structure with curved door. K. A. Weber. 2,534,488, Dec. 19.
Refrigerating control apparatus. L. B. Koontz. 2,534,455, Dec. 19.
Refrigerator, Two-temperature table top. H. M. Dunlap. 2,534,546, Dec. 19.
Regulator: *See*—
Oxygen regulator.
Reinforced luggage box. F. Serpico. 2,534,684, Dec. 19.
Relay, Electrical. F. B. Menger. 2,534,873, Dec. 19.
Release apparatus for load supports. L. P. Frieder and W. S. Finken. 2,534,704, Dec. 19.
Removal from and burning of ash on a grate. C. H. Sparks. 2,534,634, Dec. 19.
Removing hydrogen embrittlement of bright nickel electrodeposits. A. S. Kasper. 2,534,911, Dec. 19.
Removing oil from citrus fruit juices. J. A. Cross. 2,534,341, Dec. 19.
Resilient connection. N. G. A. Malmquist. 2,534,981, Dec. 19.
Resin acid nitriles. S. T. Putnam. 2,534,297, Dec. 19.
Respirator. W. W. Loose. 2,534,720, Dec. 19.
Response curve indicator. J. L. Delvaux. 2,534,957, Dec. 19.
Road roller. B. Essick. 2,534,506, Dec. 19.
Road roller construction. B. Essick. 2,534,507, Dec. 19.
Rod: *See*—
Temperature compensated control rod.
Rod brake. D. E. Moran and S. F. Jarvis. 2,534,984, Dec. 19.
Roller skate wheel. E. G. Blaes. 2,534,401, Dec. 19.
Rosin-containing mixed esters. L. Shechter and J. M. Whelan, Jr. 2,534,308, Dec. 19.
Rubber products, Modified. W. H. Smyers. 2,534,883, Dec. 19.
Rule, Slide. J. R. Bland. 2,534,695, Dec. 19.
Saccharate-ion exchange process. R. W. Shafor. 2,534,560, Dec. 19.
Saddle construction, Knee. R. H. Feero. 2,534,904, Dec. 19.
Safety catch, Automatic. F. Vogel. 2,534,887, Dec. 19.
Safety control for shower heads and other hot-water outlets. H. Schlaich. 2,534,378, Dec. 19.
Safety device for firearms. H. P. Hansen. 2,534,514, Dec. 19.
Safety gas burner. L. J. Pellerin. 2,534,474, Dec. 19.
Sampler of liquid and gas phase streams, Automatic. L. A. Webber and O. W. Kiphart. 2,534,489, Dec. 19.
Sand mold composition. S. M. Vincent. 2,534,743, Dec. 19.
Sash balance, Spring. G. B. Haas. 2,534,968, Dec. 19.
Saw, Swinging hot. F. E. Kling. 2,534,977, Dec. 19.
Scale-distribution control for measuring devices. A. J. Petzinger. 2,534,925, Dec. 19.
Screw driver, Screw holding. R. J. Lohr. 2,534,719, Dec. 19.
Seal for vulcanizing apparatus, Protective. A. N. Gray. 2,534,865, Dec. 19.
Sealing containers, Method and apparatus for. J. M. Sharf. 2,534,305, Dec. 19.
Seat: *See*—
Upending tractor seat.
Seat structure for automobiles, Convertible. W. H. McGee. 2,534,612, Dec. 19.
Secrecy system. J. E. Smith and R. E. Mathes. 2,534,535, Dec. 19.
Selector system, Cathode-ray tube. T. I. Ress. 2,534,369, Dec. 19.
Self-unloading vehicle. M. C. Ottenbacher. 2,534,558, Dec. 19.
Separating by liquefaction gaseous mixtures into their constituents. A. Etienne. 2,534,903, Dec. 19.
Separating cooking liquor from pulp. P. G. von Hildebrandt. 2,534,324, Dec. 19.
Separator: *See*—
Cyclone separator.
Servomotor and system having improved torque characteristics. G. C. Newton, Jr. 2,534,293, Dec. 19.

Severing the heads from the bodies of shrimp. C. A. and E. F. Greiner. 2,534,767, Dec. 19.
Sewing machine for elastic seams. H. Diamond. 2,534,701, Dec. 19.
Sewing machine for making tubular trimmings. L. W. Senter. 2,534,534, Dec. 19.
Sharpener for meat block scrapers. C. S. Van Loon. 2,534,486, Dec. 19.
Shelf bracket. C. G. Comer. 2,534,952, Dec. 19.
Shock absorber and accelerator. A. A. Danielsen and A. P. Schleret. 2,534,248, Dec. 19.
Shock absorber for railway car trucks. G. E. Dath. 2,534,418–19, Dec. 19.
Shock absorber for railway car trucks. H. Fuchs. 2,534,433, Dec. 19.
Shoe with interlaced vamp elements. H. H. Johnson. 2,534,975, Dec. 19.
Shoulder pad construction. E. D. Gerry. 2,534,513, Dec. 19.
Shovel loader, Hydraulic power. H. M. Stueland. 2,534,886, Dec. 19.
Shower head, Adjustable spray. J. Fraser. 2,534,549, Dec. 19.
Sign letter. J. T. Miller. 2,534,467, Dec. 19.
Signal storage circuit. G. L. Bush. 2,534,544, Dec. 19.
Sinker control means for circular knitting machines. R. H. Lawson and M. P. Dodds. 2,534,460, Dec. 19.
Slat, Venetian blind. J. W. Holland. 2,534,673, Dec. 19.
Sleet-melting on high-voltage lines. C. F. Wagner. 2,534,935, Dec. 19.
Sleeve construction, Coat. J. Goodman. 2,534,551, Dec. 19.
Slip mechanism for well tools. J. S. Page. 2,534,529, Dec. 19.
Smelting furnace. L. S. Longenecker. 2,534,825, Dec. 19.
Smoking device. E. R. Schwinn. 2,534,799, Dec. 19.
Smoking pipe. M. Plesh. 2,534,476, Dec. 19.
Socket, Electric light. A. Tiscione. 2,534,804, Dec. 19.
Sod cutter. S. T. Wall. 2,534,838, Dec. 19.
Sodium carbonate, Production of. L. Rosenstein. 2,534,298, Dec. 19.
Soldering iron. A. F. Flournoy. 2,534,257, Dec. 19.
Solution concentrating apparatus. R. B. P. Crawford. 2,535,008, Dec. 19.
Sound detector, Directional. J. Auscher. 2,534,847, Dec. 19.
Sound generator. G. C. Seavey and C. B. Horsley. 2,534,833, Dec. 19.
Sound reproducer, Photoelectric web controlled. W. E. Horton. 2,534,715, Dec. 19.
Speed control. H. N. Fairbanks and V. H. Eisler. 2,534,430, Dec. 19.
Speed responsive device. G. T. Randol. 2,534,733, Dec. 19.
Splicer, Tube. M. Engler. 2,534,252, Dec. 19.
Stand for bicycles, Exercising. H. W. Hapman. 2,534,967, Dec. 19.
Stand with suction base, Christmas tree or antenna. A. O. Zedler. 2,534,894, Dec. 19.
Starter unit, Automatic. R. L. Appleton. 2,535,007, Dec. 19.
Stator for universal electric motors. G. D. Willits. 2,535,004, Dec. 19.
Steaming unit for umbrellas, Circular. A. F. Polan. 2,534,831, Dec. 19.
Steaming vegetables, Method of and apparatus for. P. C. Wilbur. 2,534,848, Dec. 19.
Stop control mechanism. J. C. Bodansky. 2,534,896, Dec. 19.
Strand feeding mechanism. R. H. Lawson. 2,534,459, Dec. 19.
Stranding machine. C. O. Bruestle. 2,534,696, Dec. 19.
Stroller. O. T. Topper. 2,534,539, Dec. 19.
Structural units of gridlike construction providing supports for walls, floors, or the like. A. M. Butts. 2,534,852, Dec. 19.
Stylus, Guarded. F. W. Roberts and S. Yerkovich. 2,534,735, Dec. 19.
Suction cleaner. J. J. Bevington, Jr., and E. Boros. 2,534,808, Dec. 19.
Sunglasses. T. A. Willson. 2,534,748, Dec. 19.
Support: *See*—
Christmas tree support. Table support.
Portable projection picture screen support.
Support for household utility devices. H. F. Schmidt, G. P. Gerlach, and J. C. Squiers. 2,534,683, Dec. 19.
Supporter or shield, Strapless. F. Viniegra. 2,534,934, Dec. 19.
Surface working machine. C. Hauser. 2,534,969, Dec. 19.
Suspension system for tractors and like vehicles. A. C. Howard. 2,534,772, Dec. 19.
Switch holding and release mechanism. J. A. Rugh. 2,534,797, Dec. 19.
Switching arrangement, Automatic. P. H. E. Claesson and I. W. Grundin. 2,534,500, Dec. 19.
Switching system, Automatic. W. H. Cuttino. 2,534,902, Dec. 19.
Synchrometric system, Dual. M. Wallace. 2,534,842, Dec. 19.
Synchrometric system, Gated dual. M. Wallace. 2,534,843, Dec. 19.
Synchrometric system, Gated triple. M. Wallace. 2,534,844, Dec. 19.
Synchronizer circuit. J. R. Wilkerson. 2,534,329, Dec. 19.
Synthesis of hydrocarbons. H. V. Atwell. 2,534,395, Dec. 19.
Table: *See*—
Drop-leaf extension table.
Vertically and tiltably movable X-ray table.
Tank for motor boats, Auxiliary fuel. E. S. Anderson. 2,534,394, Dec. 19.
Tape, Venetian blind. R. Vogel. 2,534,642, Dec. 19.
Telegraph system, Synchronous. A. E. Canfora and L. A. Thomas. 2,534,337, Dec. 19.
Telephone system having preset transmitter. L. J. Bowne. 2,534,850, Dec. 19.
Television tuner. E. L. Hall. 2,534,768, Dec. 19.
Temperature compensated control rod. E. L. Moyer. 2,534,791, Dec. 19.
Tensioning means, String. J. Ferriera. 2,534,431, Dec. 19.
Terminal strip for electrical interconnections. M. Fritts. 2,534,864, Dec. 19.
Tester, Continuity. J. R. Kadilak. 2,534,450, Dec. 19.
Testing apparatus, Tensile. J. D. Lubahn. 2,534,980, Dec. 19.
Testing device, Radiator. F. J. Miller and M. J. Graham. 2,534,615, Dec. 19.
Testing device, Shock. A. J. Berger. 2,534,218, Dec. 19.
Testing nonmagnetic materials, Method and apparatus for. J. J. Delaney. 2,534,420, Dec. 19.
Testing vibration translating devices by means of an oscilloscope pattern, Method and apparatus for. C. L. Warren. 2,534,565, Dec. 19.
Thermoset laminated member. F. J. Nagel and B. C. Nash. 2,534,923, Dec. 19.
Thrust bearing. L. D. Jennings and J. Naymik. 2,534,910, Dec. 19.
Time switch rider. F. W. Truesdell. 2,535,001, Dec. 19.
Timer, Electronic. A. J. Ruiz and E. J. Kupjack. 2,534,299, Dec. 19.
Timer, Milking. L. J. Schilling. 2,534,927, Dec. 19.
Timing control, Electrical. H. I. Stanback and E. G. Anger. 2,534,385, Dec. 19.
Tire bead breaking device, Axially collapsing type. M. D. Butterfield and L. W. Mullins. 2,534,950, Dec. 19.
Tire, Motor vehicle. B. G. Jones. 2,534,869, Dec. 19.
Tire mounting and demounting device, Axially shifting type hydraulic. E. T. Haecker. 2,534,594, Dec. 19.
Tire mounting apparatus, Circumferentially traveling support mounted. R. D. Henderson. 2,534,515, Dec. 19.
Toilet paper container. S. Moskowitz. 2,534,290, Dec. 19.
Tool: *See*—
Cutting tool. Unitary flaring tool.
Glass breaking hand tool.
Tool turret. R. E. Frushour. 2,534,432, Dec. 19.
Top and spinning device therefor. O. Thoresen. 2,534,538, Dec. 19.
Torch and method, Binozzle gouging. C. R. Moore and J. Villoresi. 2,534,365, Dec. 19.
Totalizator registering means for "doubles" tickets. A. F. Julius. 2,534,602, Dec. 19.
Towel dispensing cabinet. W. H. West. 2,534,645, Dec. 19.
Toy bomb. C. A. Kidder. 2,534,976, Dec. 19.
Toy gun. M. A. Beathan. 2,534,398, Dec. 19.
Toy, Play. J. Frechtmann. 2,534,550, Dec. 19.
Toy, Sounding. H. Singer. 2,534,996, Dec. 19.
Toy track connecting means. M. H. Larrabee. 2,534,458, Dec. 19.
Toy typewriter. S. I. Berger. 2,534,399, Dec. 19.
Tractor tread for disintegrating cornstalks. G. L. Miller. 2,534,675, Dec. 19.
Trailer unit. W. Fischer. 2,534,256, Dec. 19.
Training device, Animal. E. E. Howschultz. 2,534,516, Dec. 19.
Transetherification of β-ether-substituted esters. W. J. Croxall and J. O. Van Hook. 2,535,010, Dec. 19.
Transformer, Current. T. Specht. 2,534,931, Dec. 19.
Transmission, Automatic V belt. W. R. Bray. 2,534,409, Dec. 19.
Transmission line system, Ultra high frequency. E. L. Ginzton. 2,534,437, Dec. 19.
Transmitter, Telegraph. W. J. Zenner. 2,534,494, Dec. 19.
Transmitting device. K. Posthumus. 2,534,624, Dec. 19.
Transmitting device, Motion. J. C. Albright. 2,534,497, Dec. 19.
Transplanter drill set. C. Schneider. 2,534,798, Dec. 19.
Trap: *See*—
Automatic repeating animal trap. Choker trap.
Tray for stenographic typewriters, Paper supply and receiving. H. M. Von Duyke. 2,534,391, Dec. 19.
Treatment of wool to increase its harshness and decrease its luster. S. E. Swanson. 2,534,316, Dec. 19.
Treatment of wool to increase its harshness and fullness and to decrease its luster. S. E. Swanson. 2,534,315, Dec. 19.
Triazole compounds. J. D. Kendall and H. G. Suggate. 2,534,914, Dec. 19.
Trigger and switch circuits, Electronic. C. E. Cleeton. 2,534,233, Dec. 19.
Tripod. C. J. Cardona. 2,534,659, Dec. 19.

Truck, Weighing automotive. R. B. Girdwood-Blackett. 2,534,766, Dec. 19.
Truck with self-coupling hook, Hand. W. A. Johnston. 2,534,868, Dec. 19.
Trunk trimmer, Palm tree. R. D. Hamilton. 2,534,595, Dec. 19.
Tube: *See*—
Electron tube. Multiunit electron discharge tube.
High-frequency electron discharge tube. Voltage stabilizing tube.
Tube for sighting a furnace pyrometer, Fluid-cooled. E. Jantsch. 2,534,448, Dec. 19.
Tube holder. J. G. Kronquer and B. L. van Kouwen. 2,534,555, Dec. 19.
Tube support. J. Young, Jr., and R. J. Bower. 2,534,690, Dec. 19.
Tubing, Silent stock. W. D. Corlett, Jr. 2,534,811, Dec. 19.
Tufting machine, Portable type. E. King. 2,534,916, Dec. 19.
Turner, Glove. S. Suftko. 2,534,740, Dec. 19.
Turret. C. E. Wyrick. 2,534,333, Dec. 19.
2-oxo-5-cyano-4-imidazolinecarbonamide, salts thereof, and their preparation. D. W. Woodward. 2,535,006, Dec. 19.
2-oxolmidazolines and preparing the same. D. W. Woodward. 2,534,332, Dec. 19.
Typewriter, Chinese. K. Wong. 2,534,330, Dec. 19.
Ultra violet absorbing filter. A. Barnes. 2,534,654, Dec. 19.
Undercarriage for aircraft, Retractable. C. H. Flurschelm. 2,534,962, Dec. 19.
Unitary flaring tool. G. E. Franck. 2,534,510, Dec. 19.
Universal-type picture frame. J. W. Swenson. 2,534,741, Dec. 19.
Unloader for vehicles, Power grain scoop. J. R. Howe. 2,534,266, Dec. 19.
Upending tractor seat. H. J. Stewart. 2,534,386, Dec. 19.
Uranium halides, Production of. A. S. Newton and O. Johnson. 2,534,677, Dec. 19.
Utensil surface form and character, Cooking. H. M. Bramberry. 2,534,407, Dec. 19.
Vacuum cleaner. S. F. Crabb. 2,534,578, Dec. 19.
Vacuum cleaner. G. E. Lofgren. 2,534,280, Dec. 19.
Vacuum steam heating system and operating the same. R. J. McKinnon. 2,534,826, Dec. 19.
Valance structure. G. Kahn. 2,534,519, Dec. 19.
Valve: *See*—
Automatic valve. Hydraulic brake check valve.
Filling valve.
Valve. L. B. Courtot. 2,534,577, Dec. 19.
Valve. G. E. Franck. 2,534,509, Dec. 19.
Valve and counter, Electrically controlled dispensing. J. O. Price. 2,534,987, Dec. 19.
Valve and system, Moisture ejector. C. O. Bruestle. 2,534,697, Dec. 19.
Valve for hydraulic motors, Pressure-responsive reversing. G. M. Geiger and H. M. Purcell. 2,534,966, Dec. 19.
Valve held open by flow, Outlet. L. C. Barling. 2,534,942, Dec. 19.
Valve return device. J. Panhard. 2,534,621, Dec. 19.
Vapor electric device. L. A. Casanova. 2,534,899, Dec. 19.
Vapor injector. R. G. Thomas. 2,534,483, Dec. 19.
Vaporizer. R. J. Dieker. 2,534,661, Dec. 19.
Variable inductance device. R. G. Clapp. 2,534,854, Dec. 19.
Vehicle: *See*—
Self-unloading vehicle.
Vehicle body construction. H. Coleman. 2,534,501, Dec. 19.
Veil and making same, Lady's decorated. A. Frank. 2,534,511, Dec. 19.
Venetian blind tilt control means. M. L. Kesner. 2,534,777, Dec. 19.
Vertically and tiltably movable X-ray table. F. A. Pitts and W. H. Haupt. 2,534,623, Dec. 19.
Vibrato means for audioamplifiers. N. I. Daniel. 2,534,342, Dec. 19.
Vinyl chloride polymers, Stabilized. H. A. Walter 2,534,936, Dec. 19.
Vise. L. J. Seese. 2,534,995, Dec. 19.
Visor, Exterior-type sun. C. B. Flavin. 2,534,763, Dec. 19.
Voltage control system. C. K. Hooper. 2,534,909, Dec. 19.
Voltage regulation. R. W. Prince, Jr. 2,534,559, Dec. 19.
Voltage stabilizing tube. F. A. van Beckum. 2,534,389, Dec. 19.
Voltmeter, Inverted tetrode vacuum tube. R. J. Schneeberger. 2,534,928, Dec. 19.
Vulcanizing apparatus. E. C. Woods. 2,534,845, Dec. 19.
Wall guide. E. D. Arnold. 2,534,940, Dec. 19.
Warp-winding from cakes. J. S. Chaya and W. L. Spann. 2,534,339–40, Dec. 19.
Washing machine, Fluid powered. A. F. McFarland. 2,534,674, Dec. 19.
Watercraft. J. H. Curry. 2,534,812, Dec. 19.
Water supplying and distributing means for locomotive tenders. C. F. Kantola. 2,534,452, Dec. 19.
Watering device, Hog. T. P. Peterson. 2,534,475, Dec. 19.
Wave guide impedance matching section. W. W. Mieher. 2,534,289, Dec. 19.
Web position controlling device for web material treating machines. O. L. Strauss and C. J. Wegner. 2,534,686, Dec. 19.
Welder's inspection light. E. D. McElhaney and F. N. Michehl. 2,534,786, Dec. 19.
Well activator. J. R. Burress. 2,534,949, Dec. 19.
Well surveying device. A. L. Smith. 2,534,632, Dec. 19.
Wheel: *See*—
Roller skate wheel.
Wheel assembly. E. E. Eriksson. 2,534,586, Dec. 19.
Wheel suspension. T. W. Meiklejohn, Jr., and S. J. Wittman. 2,534,722, Dec. 19.
Winch unit. N. L. Emmons. 2,534,583, Dec. 19.
Wind-power machine. J. Bright. 2,534,411, Dec. 19.
Window. J. Kirschstein and C. C. J. Maffei. 2,534,355, Dec. 19.
Window construction. C. R. Smith. 2,534,687, Dec. 19.
Window display protector. J. Continenza. 2,534,576, Dec. 19.
Wood conditioning process. W. P. Hoffman. 2,534,714, Dec. 19.
Work feeding means for presses. C. N. and A. S. Lovenheim. 2,534,780, Dec. 19.
Work holder. H. A. Myers. 2,534,527, Dec. 19.
Work supporting device. A. R. Hedberg. 2,534,672, Dec. 19.
Wrench: *See*—
Lever and link feed sliding jaw wrench.
X-ray film processing apparatus, Automatic. C. Katzen and T. R. Games. 2,534,603, Dec. 19.
X-ray illuminating mechanism. D. Sussin. 2,534,637, Dec. 19.
X-ray system. E. W. Titterton. 2,534,758, Dec. 19.
Zinc selenide, Preparing. S. M. Thomsen. 2,534,562, Dec 19.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 19, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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Trade-Marks	12—No.	444,365	to No. 444,376,	inclusive
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Reissues	4—No.	23,311	to No. 23,314,	inclusive
Patents	992—No.	2,535,024	to No. 2,536,015,	inclusive
Designs	105—No.	161,299	to No. 161,403,	inclusive
Total	1,542			

Patents expiring: Patent Numbers 1,940,658 to 1,941,448, inclusive, issued December 26, 1933, expire December 26, 1950

Condition of Applications Under Examination at Close of Business Dec. 8, 1950

Total number of patent applications awaiting action, 123,724. Date of oldest new application, October 8, 1949; date of oldest amended application, October 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*C. E. D. (no classes)			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	12-29-49	1-4-50	2742
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	1-3-50	12-19-49	2006
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Fluid Treatment of Textiles (Apparatus).	3-31-50	3-31-50	1641
4. BISHOP, WALTER C., Mining, Quarrying, and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	11-15-49	10-24-49	2156
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-3-50	11-16-49	1652
6. SURLE, H., Carbon Chemistry (part)	3-9-50	3-4-50	1854
7. GONSALVES, J. E., Optics; Photography (part)	6-5-50	6-1-50	1294
8. LEWIS, B. O., Racks, Cabinets; Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	11-25-49	11-26-49	2464
9. BENSON, R. B., Pumps and Fans; Fluid Motors	12-2-49	12-9-49	1478
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners), Music; Modulators; Piezo-electric Crystals.	2-1-50	1-5-50	1385
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufactures; Nailing and Stapling.	12-2-49	11-16-49	1571
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-18-50	1-26-50	1348
13. BEALL, T. E., Gear Cutting, Milling, Planing, Metal Working (part); Needle and Pin Making; Turning	11-4-49	11-2-49	1955
14. MANIAN, JOSEPH C., Metal Working (Bending; Sheet-Metal; Wire; Misc. Process), Wire Fabrics; Farriery	1-3-50	1-11-50	1286
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	4-21-50	4-6-50	1306
16. LOVEWELL, N. N., Television; Telephony	3-14-50	3-16-50	1069
17. LEIGHEY, R. A., Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-17-49	12-28-49	2136
18. KURZ, J. A., Power Plants; Speed Responsive Devices	11-4-49	11-3-49	1686
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-31-49	10-25-49	1329
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-27-49	12-27-49	1922
21. MADER, R. C., Textiles; Package and Article Carriers	12-3-49	12-7-49	1847
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	11-14-49	12-2-49	1381
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-28-49	12-17-49	795
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	4-14-50	4-14-50	1508
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	3-8-50	3-7-50	1510
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-11-50	1-10-50	1353
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	1-30-50	1-26-50	2154
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Springs, Weights, and Horsepower Motors, Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-3-50	1-11-50	1566
29. HABECKER, LEON B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	2-17-50	2-15-50	1976
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Heat Exchange (part); Refrigeration; Illuminating Burners.	4-4-50	4-8-50	2142
31. HUTCHISON, EARL W., Mineral Oils; Carbocyclic or Acyclic Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	3-23-50	3-9-50	2152
32. LESH, KARL R., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	3-23-50	2-3-50	1544
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-23-50	1-24-50	2148
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	12-27-49	1-3-50	1656
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-4-50	1-5-50	1752
36. McFADYEN, A. D., Measuring and Testing; Automatic Weighers; Weighing Scales	12-19-49	12-6-49	1672
37. REYNOLDS, E. R., (Acting), Electricity, Circuit Makers and Breakers	1-25-50	1-4-50	1038
38. ARNOLD, D., Coating Processes and Apparatus; Coating or Plastic Composition (part); Rubber; Preserving Apparatus (part).	4-19-50	3-6-50	1359
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves, Water Distribution	10-8-49	10-14-49	3032
40. DRUMMOND, E. J., Receptacles (part); Packages	2-2-50	1-10-50	3220
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	11-4-49	11-2-49	1617
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Card, Picture and Sign Exhibiting.	1-26-50	1-24-50	2217
43. STONE, I. G., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part)	5-31-50	4-25-50	1095

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 123,724. Date of oldest new application, October 8, 1949; date of oldest amended application, October 6, 1949.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
44. HARVEY, L. P., Beds, Chairs, Seats	11-14-49	11-29-49	1805
45. MANIAN, JACOB A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-29-49	1-3-50	1878
46. O'LEARY, ROBERT A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (doors, windows, awnings and shutters); Kitchen and Table Articles.	1-5-50	1-5-50	1371
47. KANOF, WM. J., Motor Vehicles; Land Vehicles (part); Fluid Pressure Brakes	2-28-50	12-15-49	1875
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters	3-15-50	12-28-49	1150
49. BENDETT, BENJAMIN, Drying and Gas or Vapor Contact with Solids; Ventilation; Textiles, Ironing or Smoothing; Wells; Earth Boring.	12-1-49	12-1-49	2123
50. LEVIN, SAMUEL, Synthetic Resins	5-4-50	3-14-50	1686
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	2-1-50	11-9-49	1512
52. KNOTTS, M. K., Supports; Joint Packing; Pipe and Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	12-2-49	12-13-49	3182
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders, Closures, Partitions and Panels, Flexible and Portable; Harness; Whip Apparatus.	2-23-50	1-30-50	1221
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	2-15-50	2-3-50	1574
55. WOOD, RICHARD, (Acting), Artificial Body Members; Dentistry; Surgery; Toilet	3-14-50	3-15-50	1333
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification	2-15-50	2-15-50	1763
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry.	4-6-50	4-7-50	1384
58. DOWELL, E. F., Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	12-23-49	11-19-49	1461
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	4-11-50	3-18-50	1188
60. LEVY, MAX L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	4-3-50	4-1-50	1160
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-29-49	1-7-50	1842
62. SHAPIRO, A., Games; Toys; Amusement and Exercising Devices; Mechanical Guns and Projectors	12-29-49	1-9-50	2452
63. WINKELSTEIN, A. H., Fermentation; Foods and Beverages, Carbon Chemistry (part)	4-3-50	4-5-50	1619
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and miscellaneous.	5-13-50	5-15-50	1696
65. MORSE, EXCELLENZA L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	3-13-50	3-11-50	1819
66. LISANN, I., Geometrical Instruments	12-30-49	10-19-49	1083
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	3-15-50	3-11-50	1425
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	3-8-50	3-9-50	1544
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording; Recorders.	12-9-49	12-9-49	1972
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	12-14-49	10-6-49	2100
DESIGNS: BREHM, G. L.	1-23-50	5-27-50	3402

Total number of trade-mark applications awaiting action (including renewals and republications), 22,838. Date of oldest new application, Mar. 1, 1950; date of oldest amended application, Feb. 23, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 18, 27, 28, 29, 30, 31, 33, 35, 44, 50, 51, 52	3-10-50	3-11-50	6650
II. SUMMERS, G. S., Classes 19, 21, 22, 23, 24, 25, 26, 34	4-1-50	3-7-50	4099
Renewals (All Classes)	10-6-50	11-8-50	237
Republications (All Classes)	10-19-50	11-8-50	278
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-1-50	3-1-50	5601
IV. KEYS, O. M., Classes 2, 16, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-6-50	2-23-50	5973

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE PORTER ET AL.

No. 5701. Decided June 30, 1950. Petition for rehearing denied Sept. 29, 1950

[184 F.2d 198; 87 USPQ 104]

1. CLAIMS — BROADER THAN DISCLOSURE — SUBSEQUENT DISCOVERY NOT CONSIDERED.
Held that the rights of an applicant must be determined by what he taught in his application and not by some subsequent discovery which contradicts, or runs counter to, the teaching in the application.

2. PATENTABILITY — PARTICULAR SUBJECT MATTER — METHOD OF SHAPING LAMINATED SHEET MATERIAL.
Certain claims to a method of laminating sheet material *Held* properly rejected as broader than the disclosure.

APPEAL from Patent Office. Serial No. 479,150.

AFFIRMED.

Christy, Parmelee & Strickland (*Wm. H. Parmelee* and *Lee L. Townshend* of counsel) for Porter et al.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner.

GARRETT, *Chief Judge:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office, one member dissenting, affirming the rejection by the Primary Examiner, hereinafter usually referred to as the Examiner, of two method claims, numbered respectively 19 and 20, embraced in appellants' application for patent for method of shaping laminated sheet material, on the ground that those claims are broader than the disclosures made in the application as filed.

Seven claims, numbered 7, 8, 9, 15, 16, 17, and 18, to which references are hereinafter made, stand allowed, six by the Examiner and one (No. 17) by the Board.

The appealed claims read as follows:

19. The method of shaping laminated sheet material composed of layers of textile material bonded with a completely reacted thermosetting type of resin, which comprises immersing the material in a liquid bath of high boiling point liquid maintained in an open vessel at a temperature of at least 350° F. and below the boiling point of the liquid until the laminated material softens, and then forming the said material to desired shape before it has again set.

20. The method of shaping laminated flat sheet material having textile sheets bonded with a completely reacted thermosetting type resin, which comprises immersing the laminated sheet material in a bath of high boiling point liquid chemically inert with respect to the laminated sheet material, and which is maintained in an open vessel at a temperature of at least 350° F. and below its boiling point, removing the sheet from the bath as soon as it has softened, and shaping it while still hot.

No prior art was cited, the rejection being based solely upon the view that the claims, because of their breadth, are not supported by the disclosures of the application, and, in view of this ground of rejection, it has been necessary to study the disclosures with much care.

The specification states:

This invention relates to the shaping of laminated sheet material comprised of cloth and a thermosetting resin, and is for a method of bending such material after the resin has been reacted.

It is recited that the material of the class to which the invention pertains is typified by material extensively sold under the trade name "Micarta," which is formed by impregnating cotton duck or similar fabric with a potentially reactive resin such as phenolic or crysylic condensation resin; that layers of the impregnated cloth are superimposed and subjected to heat and pressure in a press, thus producing a flat sheet material which is hard and tough; that thermosetting resins (unlike thermoplastic resins) do not soften under the usual processes of heating; that "there are many instances where it is desirable to shape resin bonded sheets in a 'post-shaping' operation, i. e. after the resin has become thermosetting"; that this has heretofore been regarded as impossible except perhaps for slight deformation; and that appellants "have successfully been able to permanently shape commercial sheets of the 'Micarta' or like type using a duck or other fabric as the base material, enabling it to be bent or molded to a substantial degree of deformation," by a method defined in the specification, along with a statement of results, the parts of which here pertinent read:

• • • by immersing the resinous bonded laminated sheet material in a liquid bath at a temperature above 350° F., particularly if such bath contains a substantial amount of sulphur, that it will be softened to the point where it can be bent and worked and, upon cooling, will hold its form and will not spring back to its original flat shape. As one example of a method of carrying out my invention, mineral oil, such as a lubricating oil having a viscosity of 20 S. A. E. is mixed with powdered sulphur and the mixture is heated to about 375° F. About ten per cent of sulphur will go into solution in the oil. Any excess will remain in the bottom of the bath in a melted state. A standard 'Micarta' type of sheet is immersed in this bath for an appropriate period of twenty to thirty seconds, depending upon the thickness of the laminated material. Upon being withdrawn from the bath, the laminated sheet material may be placed between wooden dies and subjected to moderate pressure. The sheet material will conform to the shape of the dies under moderate pressure. Upon cooling, the sheet will have a permanent set and will not spring back to its original flattened condition. It is possible to stretch the material to a considerable extent in this forming operation and relatively sharp bends can be made without the resin or cloth cracking.

• • • • • • • • •

When the sheet has been pressed in the manner above described, it may be cleaned to remove the oil. There is

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apparently no alteration in the resin and it appears to be as hard and as impermeable as it was originally.

Instead of using oil with sulphur, it is possible, although less satisfactory, to use oil to which no sulphur has been added. * * *.

In lieu of using oil, satisfactory results may be obtained by using molten sulphur at a temperature of around 375° F., or a molten sulphur having sand incorporated therein may be used. The sand acts as an inert filler and, aside from this, appears to have no function in the method. * * * The sulphur appears to have a property of affecting the resinous coating at the temperature above indicated to render the sheet thermoplastic, but this is purely a temporary and transient condition of the plastic and it does not become permanently thermoplastic. Heated vegetable oils, as for example castor oil, might also be employed, except for the solidification which castor oil and similar vegetable oils undergo upon prolonged heating.

The same resin bonded laminated sheet material, if subjected to a much higher degree of dry heat, is not softened. For example, it may be placed in a dry oven and heated to temperatures much above 400° without softening and does not soften even when the flame of a torch is directed against it. The phenomenon is therefore not due merely to heat, but requires the presence of heated liquid having a quality of temporarily affecting the resin and most especially a heated liquid containing sulphur.

While I have illustrated and described certain specific embodiments of my invention, it will be understood that this is merely by way of illustration and that other liquids than those specifically named may be employed, among which are glycerin and some of the more complex alcohols.

From the foregoing it may be seen that the specification teaches the use of a liquid bath containing ingredients as follows:

(1) Mineral oil, such as a lubricating oil having a described viscosity, mixed with powdered sulphur.

(2) Oil to which no sulphur has been added.

(It is assumed that in this respect it was intended by appellants to teach the use of mineral oil only, because there is no teaching that any vegetable oil is so usable. On the contrary, it is said that castor oil might be employed "except for the solidification which castor oil and similar vegetable oils undergo upon prolonged heating."

The specification itself pointed out the disadvantages of using oil without mixing sulphur with it.)

(3) Molten sulphur, used in lieu of oil.

(4) Sulphur mixed with sand, the sand being an "inert filler" and aside from its inertness having no function in the method.

(5) Glycerin.

No claim was presented specifying glycerin as an ingredient.

(6) "Some of the more complex alcohols."

The specification does not define what is meant by "more complex alcohols," nor does it indicate what may be included as complex alcohols by use of the word "some." The brief for appellants states, in substance, that that is a matter easily determinable by those skilled in the art.

The specific liquid bath defined in allowed claims 7, 8, and 17 is composed of oil (presumably mineral) only; that in allowed claims 9 and 16 is composed of a mixture of oil and sulphur; and that defined in allowed claims 15 and 18 is composed of molted (melted) sulphur only.

No claim was presented, so far as the record shows, which called for a liquid bath composed of "glycerin," nor was any presented embracing use of "some of the more complex alcohols."

In our opinion, appellants were allowed claims broad enough to cover every patentable element which they saw fit to disclose and claim in their application. Had they claimed a bath composed of glycerin, it would seem to have been allowable, so far as the record before us shows, but this is purely speculative. Whether, in the absence of a more definite explanation, a claim for a liquid bath composed of "some of the more complex alcohols" would have been allowable is problematical, but we need not dwell upon it, nor speculate about it.

The only reason for referring to those factors—"glycerin" and "some of the more complex alcohols"—recited in the specification is that appellants rely upon them to support the broad claims here on appeal, neither of which specifies any ingredient of a liquid bath in which the laminated sheet material may be immersed.

Claim 19, supra, calls merely for a "liquid bath of high boiling point liquid maintained in an open vessel."

Claim 20, supra, calls for a "bath of high boiling point liquid chemically inert with respect to the laminated sheet material * * *."

It does not seem to us that appellants' specification teaches the utility of any bath which is lacking in qualities that chemically affect the resin in the laminated sheets. On the contrary, it expressly teaches, as quoted supra, that the phenomenon of softening the resin is not due merely to heat, "but requires the presence of heated liquid *having a quality of temporarily affecting the resin and most especially a heated liquid containing sulphur.*" [Italics ours.]

That sulphur has a chemical effect upon substances with which it is used in industry is well known, and, so far as the instant case is concerned, it is not regarded material whether the effect be temporary or permanent. The important question is—What did appellants teach in the application as filed?

It is significant that at the time of filing the application appellants believed that a chemical reaction was present. Aside from what is stated in the specification, there is in the record an admission to this effect. It is contained in their reason of appeal No. 7, when they carried the case before the Board of Appeals. Therein it is said:

> At the time of their application which was made under stress of war conditions and under a peculiar competitive situation, applicants originally thought that the presence of sulphur might be an important factor, which factor is mentioned in their application, but it was later proved that the action was solely physical and not chemical. Under these circumstances the Examiner has erred in requiring that applicants observe the limitations normally imposed only on applicants who make an invention in the chemical field.

[1] An affidavit of joint applicant Porter (who states that he has "no present interest in this application") is invoked by counsel for appellants in the effort to show that appellants were mistaken with respect to the matter of chemical reaction at the time their application was filed.

Assuming that to be true, of what vail is it to appellants? Their rights (or the rights of their assignee, if there be an assignee) must be determined by what they taught in their application—not by some subsequent discovery, particularly where such subsequent discovery contradicts, or runs counter to, the teaching of the application.

[2] The decision of the Board of Appeals is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

KVALNES *v.* WRIGHT

No. 5704. Decided June 30, 1950

[183 F.2d 193; 86 USPQ 403]

1. INTERFERENCE—REDUCTION TO PRACTICE—TESTS MUST SHOW PRACTICAL UTILITY.

Although the dye set forth in the count is not limited by the count to use in connection with nylon hosiery, *Held* that where the evidence shows that practically all nylon produced was converted into hosiery an effective reduction to practice must include a test which demonstrates the successful use of the dye on nylon hosiery.

2. SAME—PRIORITY OF INVENTION—DYE FOR NYLON.

Held that the appellant's proofs fail to show a reduction to practice before that of the appellee and the decision of the Board of Interference Examiners is affirmed.

APPEAL from the Patent Office. Interference No. 81,910.

AFFIRMED.

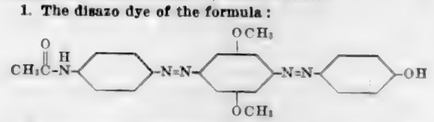
Walter C. Wheeler and *Chester H. Biesterfeld* for Kvalnes.

I. Seltzer and *C. W. Levinson* (*Albert H. Graddis* of counsel) for Wright.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention to the party Wright. Four counts seem to have been involved before the Board, but the appeal to us was taken only as to Count 1, which reads:

1. The disazo dye of the formula:



Wright (who describes himself as a British subject in his application) is the senior party. His application was filed June 25, 1942. The application of Kvalnes, which appears to be assigned to E. I. du Pont de Nemours & Company, was filed June 17, 1943.

The Board awarded Wright constructive reduction to practice as of July 22, 1941, on which date a Provisional Specification of a British application was filed in his behalf. This award is not challenged before us.

In his preliminary statement Kvalnes alleged actual reduction to practice of the count before us "during the month of June 1939."

The Board held, in effect, that the compound of the count had been produced at the time claimed for reduction to practice, but held that the tests made of the compound were not sufficient to demonstrate its utility. Therefore, it was held that appellant could not be awarded actual reduction to practice but was confined to the constructive reduction to practice incident to his filing date of June 17, 1943.

We quote the following from the Board's decision (reference to page numbers of the record being omitted as indicated by asterisks):

> Diazotization requires observance of definite conditions. Equimolecular quantities of nitrite and amine are used and the mineral acid should be in excess, at least 2 to 2½ equivalents being present. Diazotization is always carried out in the cold. Diazonium salts couple readily and easily to phenols and aromatic amines under the proper procedure. Both reactions are the common procedures in the azo dye laboratory and are so well standardized and understood that, taking into consideration also the observable expected phenomena accompanying the reactions, there is no question in the mind of the chemist as to the final product. This is the situation here and the evidence shows the proper procedure was followed. We believe that in the peculiar circumstances of this case, there is reasonable certainty that the compound of count 1 was produced and that analysis was not necessary to establish identification.
>
> The tests with the product of count 1 demonstrated outstanding light-fastness as compared with a selected standard, but the product was somewhat deficient in the important property of transfer in the dyeing of nylon hosiery. Consequently the du Pont Sales Division questioned the practicality of the dye for the dyeing of nylon hosiery and the product was never sold on the market by the du Pont company. * * * However, Kvalnes considered that this deficiency did not rule out the use of the dye in admixture with other dyes under controlled conditions, and tests were requested in this regard. Tests carried out in the fall of 1941 by Hunter (Ex. 16), using the product made by Holeton, were considered by the witness Hunter as satisfactory, as concerns absorption rate and light-fastness when used in mixes, but it is believed clear these factors alone are not determinative of success. Jig dyeing tests were also made by Ryan, but proved unsatisfactory for hosiery dyeing due to poor leveling properties * * *. According to Kvalnes, a mill trial was requested on the final sample in admixture, but this was not done due to unsettled conditions * * *.
>
> It seems clear according to the foregoing summary of events that practical utility of the product of count 1 has not been satisfactorily demonstrated. Practicality of the dye in connection with nylon hosiery was questioned by the du Pont Sales Division because of deficiency in transfer. At the time of the tests practically all of the nylon produced was converted into hosiery * * * and so it was with such products that tests for practicality were concerned. The laboratory dye tests for nylon had not reached a standardized condition at that time * * * and the tests with mixtures obviously were not conclusive, as is apparent from the fact that a mill run was requested, but, as noted above, was never carried out.
>
> With respect to utility, Kvalnes cites the well-known case of *Corona Co.* v. *Dovan Corp.*, 276 U. S. 358, 1928 C. D. 253, for the proposition that "A composition of matter is reduced to practice when it is completely composed." In the present case, however, the problem involved was the suitability of the compound as a dye, and not in merely producing it. In this circumstance, reduction to practice must demonstrate the practical utility as a dye. *Knutson et al.* v. *Gallsworthy*, 164 F.2d 497, 74 USPQ 324, 608 O. G. 215. The case of *Potter* v. *Tone*, 36 App. D. C. 181, 1911 C. D. 295, is also relied upon for the view that a showing of utility for some purpose, such as excellent light-fastness in the present case, is sufficient. In the cited decision, the count did not specify the purpose or field of usefulness. The situation here is different because the count calls for a dye, and practical utility for this purpose must be shown.
>
> We conclude the party Kvalnes has failed to demonstrate practical utility, and actual reduction to practice of the invention of count 1 has not been established.

With respect to conception on the part of Kvalnes the Board seems to have assumed that he conceived prior to the filing date of Wright's British application, but held the record to be "manifestly lacking" in a showing of reasonable diligence on the part of Kvalnes during the critical period beginning just prior to Wright's established record date, July 22, 1941, and extending to his (Kvalnes') own filing date, and the holding as to such lack of diligence is not challenged in the appeal to us.

So, the ultimate question to be determined, stated in simple terms, is whether the record establishes utility of the composition which Kvalnes is accredited by the Board with having produced prior to the date awarded Wright for reduction to practice.

(We hereinafter give attention to a contention made in the brief for Wright to the effect that the record does not justify the holding that Kvalnes produced the composition and the motion of Kvalnes to strike that portion of the Wright brief.)

We deem it proper to quote from the Kvalnes brief the contentions made on his behalf.

Firstly Kvalnes' specification sets forth that the object of the invention is to produce insoluble disazo colors (dyes), and count 1 specifies one of the novel disazo dyes. Therefore it is appellant's position that if Kvalnes establishes utility of the compound defined by count 1 with respect to any use for dyeing, such should be acceptable as proof of utility of count 1 because the count specifies a dye and dyeing is the intended use set forth in appellant's specification.

Secondly Kvalnes contends that his record shows, among other proofs of utility that dyeings were made for him by expert testers working under requests issued by Kvalnes and his superior, Dr. S. S. Rossander of the Jackson Laboratory; and that the making of the dyeings with the dye of count 1 were made by these testers in order to enable them to make their reports on the excellencies and defects of the dye, and that the making of these dyeings is in itself proof of utility of the dye of count 1.

Third, it is here noted that the Board had decided that Kvalnes has proved that he made the compound of count 1 before July 22, 1941, the British filing date of Wright's Convention application.

Fourth, it is appellant's position that proof of utility of a compound, such as that defined by count 1, may not be confined by the Board of Interference Examiners to a use which the Board may arbitrarily select, such as the dyeing of nylon hosiery. The count of appellant's specification is not limited to the dyeing of hosiery. This is clearly evident from the record, and Kvalnes should not be denied the decision of priority on the ground that he did not prove utility with respect to some use to which the count is not limited.

The brief then analyzes in extenso the testimony and other evidence presented at the trial. We have studied all the evidence—that is, the oral testimony and the documentary and physical exhibits—in the light of the analysis and the arguments with the result that we are not convinced that the finding of the Board, the material parts of which are quoted, supra, properly may be held to be against the weight of the evidence.

It may be seen from the position taken in the quotation from the Kvalnes brief, supra, that it is argued that the Board arbitrarily selected the dyeing of nylon hosiery as the use by which utility of the composition should be determined, and it is insisted that this was error, because, it is argued, if Kvalnes established any use of the composition for dyeing (which it is claimed he did as to some other nylon textile) that should be accepted as proof of utility of the count.

[1] We do not think the dyeing of nylon hosiery was arbitrarily selected by the Board as the use for determining utility.

It is observed that what the Board said was:

• • • *At the time of the tests practically all of the nylon produced was converted into hosiery* • • • and so it was with such products that tests for practicality were concerned. [Italics ours.]

In support of this finding the Board cited testimony given by Kvalnes himself, which seems to us fully to justify the Board's statement.

That all, or practically all, of the nylon then being made was then used in the manufacture of hosiery is not questioned, nor is it claimed that the Kvalnes composition was useful for dyeing it. In fact, it seems to us to be well established that it was not useful for dyeing such nylon.

Furthermore, we are unable to find any satisfactory showing that it actually had utility in dyeing any textile not used in the manufacture of hosiery.

All the tests made were laboratory tests and the assignee of the Kvalnes application (E. I. du Pont de Nemours & Company) does not appear to have added the composition to its line of colors offered for dyeing nylon.

Since we find no justification for holding that there was error in the Board's decision, it is not deemed necessary to add to the length of this opinion by entering upon a more detailed review of the evidence than that already given.

In a parenthetical paragraph, supra, reference is made to a contention presented in the brief on behalf of Wright and a motion of Kvalnes to strike that portion of the Wright brief.

It has been recited, supra, that the Board held that the compound, or composition, of Kvalnes was produced prior to the date awarded Wright for constructive reduction to practice and that "analysis was not necessary to establish identification."

Wright having prevailed below did not appeal from the Board's holding, but in his brief before us argued, in effect, that the identity of the Kvalnes product "cannot be held to have been clearly established."

On behalf of Kvalnes a motion to strike that portion of the brief relating to that matter was filed, it being insisted that in the absence of an appeal by Wright he has no right to challenge the Board's finding.

In an action at chambers the motion to strike, which Wright opposed, was denied with the right reserved to Kvalnes to renew it at the final hearing before us. It was so renewed and a very extensive brief and argument was filed in connection with the motion. Wright renewed his opposition and the subject matter was taken under advisement along with the merits of the case.

In view of our decision on the merits, a decision on the motion would have no effect upon the result so far as this case is concerned, and we, therefore, refrain from action upon it on the ground that, under the facts appearing, it is moot.

[2] For the reasons which have been indicated in our discussion on the merits, the decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE EGER ET AL.

No. 5707. Decided June 30, 1950. Petition for rehearing denied Sept. 29, 1950

[184 F.2d 193; 87 USPQ 107]

1. PATENTABILITY—PARTICULAR SUBJECT MATTER—IMPREGNATED FLEXIBLE SHEET.

Certain claims to a flexible sheet impregnated with an unvulcanized copolymer of butadiene and styrene *Held* unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 556,494.

AFFIRMED.

Arnold S. Worfolk (*Edmund H. Parry, Jr.*, of counsel) for Eger et al.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner denying, as unpatentable over prior art cited, four claims, numbered respectively 16, 17, 18, and 19, of appellants' patent application entitled "For Butadiene Copolymer Impregnated Sheet." Two claims, numbered respectively 14 and 15, were allowed by the Primary Examiner. All the appealed claims and both of the allowed claims are product claims.

We quote the following descriptive matter from the decision of the Board:

The claims are directed to a flexible fibrous sheet of web, such as paper, which has been impregnated with an unvulcanized copolymer of butadiene with styrene, acrylonitrile, isobutylene, or methacrylates, which are generally known synthetic rubbers, and (claim 19) to a pressure sensitive tape comprising a backing of such sheet and a pressure sensitive adhesive united thereto. The particular points of novelty urged by appellants as patentable distinctions reside in the use of a butadiene copolymer wherein the copolymerizing agent such as styrene is present to the extent of 35% to 70% of the weight of the copolymer, and in saturating the fibrous web with such copolymer to the extent of 40% to 60% of the weight of the web.

The appealed claims read:

16. A flexible sheet characterized by high tensile strength and great resistance to splitting and to delamination, said sheet comprising a porous fibrous web internally bonded by an agent which is present in the web to the extent of 40 to 60% of its weight and which includes an unvulcanized copolymer of butadiene and styrene present to the extent of 35 to 70% of the weight of the copolymer.

17. A flexible sheet characterized by high tensile strength and great resistance to splitting and to delamination, said sheet comprising a porous fibrous web internally bonded by an agent which is present in the web to the extent of 40 to 60% of its weight and which includes an unvulcanized copolymer of butadiene and an initially unsaturated compound present to the extent of 35 to 70% of the weight of the copolymer and selected from the group consisting of styrene, the unsaturated nitriles, isobutylenes, and the methacrylates, the particles of said copolymer being predominantly less than 4 microns in diameter.

18. A flexible sheet characterized by high tensile strength and great resistance to splitting and to delamination, said sheet comprising a porous fibrous web internally bonded by an agent which is present in the web to the extent of 40 to 60% of its weight and which includes an unvulcanized copolymer of butadiene and an initially unsaturated compound present to the extent of 35 to 70% of the weight of the copolymer and selected from the group consisting of styrene, the unsaturated nitriles, isobutylenes, and the methacrylates.

19. A pressure-sensitive adhesive tape comprising a backing made of sheet material according to claim 18 and a pressure-sensitive adhesive united thereto.

The following references were cited and discussed by both tribunals of the Patent Office: Konrad et al., 2,335,124, Nov. 23, 1943; Fowler, 2,351,498, June 13, 1944; Paper Trade Journal, Nov. 5, 1942, pp. 29–32; Kautschuk Gesellschaft (French patent), 838,906, Mar. 20, 1939.

The French patent and the patent to Fowler are characterized in the brief of the Solicitor for the Patent Office as "only cumulative" on the question of whether it is broadly old to impregnate fibrous material with a dispersion of a butadiene-styrene copolymer, and it is said in the brief:

• • • if the court should consider the appealed claims patentable over the Paper Trade Journal article and Konrad et al., taken singly or in combination, it would necessarily follow that the claims would be patentable over Fowler and the French patent.

We think the position so taken by the Solicitor for the Patent Office is sound and, therefore, we limit our consideration to the Konrad et al. patent, upon which all the appealed claims were rejected, and to the disclosure in the Paper Trade Journal.

There is no contention that any one of the appealed claims contains any limitation which differentiates it patentably from any other appealed claim. So, the four stand or fall together.

Claim 18 appears to be the broadest of the appealed claims. Claim 19 identifies, or names, the product as a pressure-sensitive adhesive tape. In the specification it is said, inter alia:

• • • it is manifest that there has been produced a sheet having many applications which hitherto were barred to the use of internally bonded, fibrous, non-hygroscopic sheets. For instance, in the form of a backing for normally adhesive tapes and in other forms as well, the product can be used in the aircraft, automotive, typewriter, and other machine industries to mask parts during application and high temperature treatment of baked finishes and enamels. The sheets will perform equally well in similar masking operations in finishing electrical, radio, and electronic equipment. The ability of the sheet to resist cold is of great importance in connection with aircraft designed for high altitude flying, and in the locker industry for packaging foods and other perishables for long storage at low temperatures.

This quotation is immediately succeeded by the following:

While the foregoing advantages may be obtained using standard butadiene styrene copolymers as the impregnant for the sheet, the surprising discovery has been made that the tensile and internal strength is vastly improved if butadiene styrene copolymers are used having a higher than conventional ratio of styrene to butadiene. Heretofore, the usually available butadiene styrene copolymers, such as Buna S or GRS had a styrene content of about only 25 per cent by weight. In so far as this invention is concerned, however, it is preferred that the styrene content of the butadiene styrene copolymer range between 35 and 70 per cent by weight. The increased olefin content reduces the elastic properties and improves the plastic properties of the copolymer, thereby rendering the copolymer substantially superior as an impregnant for fibrous sheeting.

As we understand the foregoing, it definitely teaches that, prior to the entrance of appellants into the field, butadiene styrene copolymers having a styrene content of "about only 25 per cent by weight" were available from which there might have been obtained the advantages incident to the sheets developed by appellants, but appellants allege that a better product for the purposes stated results when the styrene content ranges between 35 per cent by weight and 75 per cent by weight. The specification states that "Creamed dispersions of butadiene styrene copolymer suitable for practicing the invention may be obtained commercially."

In the specification of the patent to Konrad et al., application (Serial No. 334,574) for which appears to have been filed May 11, 1940, it is said:

It has now been found that the hitherto unknown products of the conjoint emulsion polymerization of butadiene and styrene, the styrene content of which is between about 45% and about 70%, are distinguished by certain new and unexpected properties. The present invention is based upon the observation that an increase of the styrene content (within distinct limits) brings about an increase of plasticity and, in accordance therewith, of the workability of such products and, moreover, of solubility.

Various examples showing differing proportions of butadiene styrene are given, and four of the claims of the patent recite a range of styrene content "between about 47.5% and about 70%."

With respect to the Konrad et al. patent the Primary Examiner in his statement following the appeal to the Board said:

* * * Since this patent shows the specific butadiene-styrene polymer in form of latex, which is to be used for any purpose for which natural rubber latex has been used, it is held that it is within the scope of any man skilled in the art to use this latex for the impregnation of fibrous products, so that the dried fibrous sheet will contain from 40 to 65% of impregnant solids. In the ordinary impregnation of fibre sheets with a latex, which varies in concentration from 30 to 50% or more, the fibres will usually absorb more than 40% of the latex solids.

In the brief for appellants it is said of the Konrad et al. patent:

This patent discloses a butadiene-styrene copolymer having a styrene content between about 45 and 70% and existing in the form of an emulsion. It further discloses that this copolymer, which is described as a new product, can be dissolved in organic solvents, such as benzene, without the necessity of subjecting the same to a breaking down process and hence can be directly employed for impregnating or coating purposes and the like.

With respect to the Paper Trade Journal reference, the Primary Examiner's statement following the appeal to the Board reads:

The article in the "Paper Trade J." deals with the saturation of paper with any latex, including latex from butadiene-acrylic nitrile interpolymers. The use of this synthetic rubber latex is specifically described in page 31 [of the Journal].

In the course of its decision the Board of Appeals said:

* * * the article in the "Paper Trade Journal" discloses impregnation of paper with synthetic rubber latices. The specific latex employed is disclosed in Konrad et al. and this is apparently agreed to by appellants.

In the brief for appellants, their interpretation of the disclosures of the reference reads:

* * * According to the reference the rubber latex used was always reduced to approximately 12½% solids, and in this form acted as a saturating medium. The usual amount of rubber deposited onto the paper fibers was between 20 to 30%, depending upon the end use of the processed material and type of saturating paper utilized. The reference goes on to mention that for shoe materials the percentage of solids deposited was invariably lower and more in the order of 15%.

This reference also describes paper impregnation with synthetic latex and resin emulsions. The synthetic rubber latex mentioned is of the Buna N (butadiene-acrylonitrile) type mixed with vinyl resins in various proportions. Plasticizers are employed for the synthetic resins which must be compatible with the type of synthetic rubber used. Also, according to the reference, plasticizers are essential for the synthetic rubber, which may be used alone, in order to retard stiffening of the product in freezing temperatures. Vulcanizing ingredients in the synthetic latex bath are favored. The reference also states that the chief drawback in the use of the Buna N latex is its tendency to migrate toward the surface of the paper during the drying operation, resulting in a poorly bound material.

Other than the reference to the Buna N type of rubber latex, no clue is given as to the amount of butadiene or acrylonitrile present in the copolymer, nor does the article specify the extent to which the paper is saturated with the latex.

Appellants' interpretation of the Paper Trade Journal reference appears to be based, in part at least, upon two affidavits made by Dr. Vlon Neilan Morris, who was connected with Industrial Tape Corporation, to which apparently the application here involved belongs, engaged in chemical research and development. There is also in the record an affidavit by Dr. Howard James Billings, who states that he is a research chemist associated with a company of consulting chemists, which is in substantial harmony with the affidavit of Dr. Morris.

We have studied and carefully considered the affidavits and the arguments relative to the Paper Trade Journal reference which seem to be based upon them.

It seems to us that the arguments are fairly answered in that part of the brief of the Solicitor for the Patent Office before us reading (note page references omitted as indicated by asterisks):

The Examiner contended that essentially the same composition [as that of the Konrad et al. patent] was inherently disclosed in the Paper Trade Journal reference since the writer of this article used in the investigation reported the ordinary "Buna N" produced in this country which contains from 30 to 50% of acrylic nitrile * * *. Appellants challenged that statement by presenting an affidavit of one Morris * * * in which the affiant states that at the time the article relied upon was written most "Buna N" was composed of a variety using 75% butadiene and 25% acrylonitrile * * *. The source and authority for the affiant's statement is stated to be a book written by one Dr. Powers at about the time the Paper Trade Journal appeared in print (1942), from which it appears that although the most common copolymer contained about 25% of styrene or acrylonitrile, copolymers containing as high as 40% acrylonitrile were not uncommon * * *. Moreover, it should be noted that at the time appellants filed the application involved in this appeal (1944), such copolymers were readily available * * *. Under these circumstances, it is submitted that there is a reasonable basis in the record for the conclusion reached by the Examiner * * * that copolymers containing acrylic nitrile in amounts within the range defined in the claims could have been and were used in the investigation reported in the Journal article, since such copolymers were old in the art and readily available commercially. In passing, it is necessary to state that the Board of Appeals did not rule specifically upon this issue.

Although appellants admit that the Paper Trade Journal reference describes paper impregnated with a synthetic rubber of the type formed from copolymers of butadiene with styrene or acrylic nitrile * * * it is urged (1) that no clue is given as to the amount of butadiene or acrylic nitrile present in the copolymer, and (2) that the article does not specify the extent to which the paper is saturated with the synthetic rubber latex * * *.

Contention (1) has been fully answered by the preceding paragraph. Contention (2) involves only a noninventive difference, i. e., a difference in degree only. As stated by the Board, differences in extent of impregnation involve no more than matters of degree and choice which would be apparent to the person skilled in the art * * *

We may remark that even were we to conclude that rejection on the Paper Trade Journal standing alone would not be justified, it would not follow from this that the decision appealed from should be reversed. There was a clear-cut rejection by the Primary Examiner of all the appealed claims as presenting nothing patentable over the Konrad et al. patent standing alone, and the Board of Appeals expressed no disagreement with that finding.

Careful consideration has been given such matter relative to the Konrad et al. patent as appears in the affidavits of Messrs. Morris and Billings, but we cannot accept the statements as overcoming what seems to us to be the clearly expressed teaching of appellants' application as originally filed.

For the reasons indicated the decision of the Board of Appeals is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

FLOSDORF ET AL. *v.* SIEDENTOPF

No. 5715. Decided June 30, 1950

[183 F.2d 102; 86 USPQ 413]

1. INTERFERENCE—RIGHT TO MAKE COUNTS—SPECIFIC RECITATION OF DISTINCTIVE FEATURE NECESSARY. Since the appellants' parent application did not recite the necessity for pure gas which is the distinctive feature of the invention, *Held* that the use of pure gas may not be implied, and the decision of the Board of Interference Examiners awarding priority to the appellee on the ground that the appellants' parent application will not support the counts is, accordingly, affirmed.

APPEAL from the Patent Office. Interference No. 82,342.

AFFIRMED.

Adams, Forward and McLean (*Clarence M. Fisher, R. T. McLean,* and *C. Von Boetticher, Jr.,* of counsel) for Flosdorf et al.

Parry & Miller (*Edmund H. Parry, Jr.,* of counsel) for Siedentopf.

WORLEY, *J.*:

This is an appeal in an interference proceeding from a decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention of the subject matter defined in ten counts to appellee.

The invention relates to the desiccation, dehydration, and preservation of biological substances.

The interference involves the application of appellants, Serial No. 635,941, filed December 19, 1945, as a division of a parent application, Serial No. 317,958, filed February 8, 1940, which matured into Patent No. 2,414,940, dated January 28, 1947, and a patent of appellee, No. 2,380,339, which issued July 10, 1945, on an application filed July 10, 1941.

The ten counts in issue were copied by appellants from the patent of appellee to provoke this interference.

Counts 1, 7, and 10 are illustrative and read as follows:

1. A method of preserving a dried biological substance desiccated from the frozen state which is under high vacuum in a container in which it is to be stored for future use, including the steps of replacing the high vacuum by filling the evacuated container with an atmosphere of inert gas uncontaminated by moisture or free oxygen while maintaining the dried biologically active substance in the container immune from moisture and air, and sealing the container with said substance and inert gas atmosphere therein.

7. As a new article of manufacture, a container adapted for storing biologically active substances for future use and having sealed therein under an internal pressure not less than approximately atmospheric pressure a quantity of dried biologically active substance derivative of high vacuum desiccation from the frozen state in an inert gas uncontaminated by free oxygen or moisture.

10. Apparatus for treating a frozen biological substance in a container in which it is to be sealed and stored comprising desiccating means including a source of high vacuum and a chemical drying agent cooperative to desiccate the biological substance in the container from its frozen state, means establishing communication between the container and both the source of high vacuum and the chemical drying agent during drying, a source of inert gas uncontaminated by moisture or free oxygen, and means establishing communication between the container and said gas source after drying of the biological substance is completed to break the high vacuum in the container and fill the container with said inert gas preparatory to sealing of the container.

Within the interlocutory period appellee moved to dissolve the interference on the ground that appellants had no right to make any of the counts. The Primary Examiner denied the motion. Appellee again urged this contention before the Board of Interference Examiners.

There can be no doubt, as was found by the Board of Interference Examiners, that the counts require preservation in an inert gas which is uncontaminated by free oxygen or moisture. Apparently the question as to the disclosure of moisture content is not in issue. The contention of appellee that appellants failed to disclose the preservation of biological substances in an inert gas was properly dismissed by the Examiner and the Board.

Counsel for appellee presented extensive testimony and exhibits for the purpose of showing actual reduction to practice of the invention defined by all the counts during a period from July to September 1939, which was prior to the effective date of the application of appellants, namely, February 8, 1940. The Board rejected this evidence on the grounds that there was insufficient corroboration that appellee used a moisture-free gas; that there was no substantial proof with respect to the laboratory experiments carried out by appellee because the testimony of appellee's witness was too general and vague; and that since the product of appellee's tests (distemper virus) was of known utility, it was not necessary to reestablish its usefulness as such.

Appellants, in an attempt to establish prior reduction to practice of the invention, relied not only on the filing date of their parent application but also on the filing date of an application dated July 18, 1938, which issued as Patent No. 2,388,134, dated October 30, 1945, to Flosdorf, Stokes, and Westin, the latter since deceased. Appellants testified that the third joint inventor had no part in the conception of the use of an inert gas as described and claimed in said patent. No disclaimer as to Westin was presented by anyone on his behalf or by the assignee of record, and the Board in its decision properly stated: "Since the leading case of *In re Roberts*, 1920 C. D. 158, 49 App. D. C. 250, a disclaimer by the misjoined party has been a uniform condition for relying on an earlier joint case. A further condition requires a showing that the original joinder was made by mistake * * *. No such showing has been made here." The Board held, therefore, that appellants are not entitled to the date of the application of the early three-party patent.

As pointed out by the Board, the process of appellants has much in common with that of appellee in that they both disclose the preservation of biological substances, and the vacuum present in both processes is relieved by "gas such as nitrogen or argon."

In pointing out the difficulties encountered in preserving under vacuum, the solution of such difficulties by appellee appears in the specification of his patent as follows:

Initial efforts to overcome this difficulty by storing the product in an atmosphere of inert gas met with failure, and until the development of the present process, which involves the removal of all traces of oxygen and moisture from the inert gas, it was not possible to store biological substances such as complement, viruses and immune sera for long periods of time without degeneration of the product. It appears that oxygen has a degenerating effect on practically all biological substances of this type, although the degeneration is more noticeable and rapid with some of these substances than with others. Commercial nitrogen having an oxygen content of only one-half of one percent was found to be entirely unsatisfactory, even though all moisture was removed. Likewise, the presence of small traces of moisture has a degenerating effect on biological substances and this possibly results from some chemical reaction, the nature of which is not fully understood at the present time.

It has now been found that substantially no degeneration takes place if the substance is sealed in the presence of an inert gas from which *all oxygen* as well as *all moisture* has been removed.

Accordingly the present invention provides a method and apparatus for removal of oxygen and moisture from an inert gas and the introduction of this gas into the evacuated containers to break the vacuum before they are finally sealed. [Italics ours.]

The vital issue before us is whether appellants disclose or teach that the inert gases of their parent application is free of oxygen, as required by the counts. With respect to that issue, the Primary

Examiner and the Board of Interference Examiners disagreed.

In denying appellee's motion to dissolve the interference as to the ten counts in issue, the Examiner held that serums (recited in appellants' application) fall within the category of biological substances, as defined by appellee, and that nitrogen and argon are inert gases; that in reciting nitrogen or argon as the gases used for storing biological substances, appellants meant nitrogen or argon per se and "*not nitrogen plus oxygen.*" [Italics quoted]; that nitrogen free of any oxygen has been available since 1912, as disclosed in the patent to Blagburn, No. 1,036,788; and that the words "air, or other gas such as nitrogen or argon" in appellants' application teaches that if the materials to be preserved call for air (dry and sterilized) as a satisfactory medium for admission into the container, the word "air" should be considered an alternative and not an equivalent to the words "nitrogen or argon," which were intended to be inert and uncontaminated by oxygen, as disclosed by Blagburn, supra.

The Board observed that as a practical matter the ordinary nitrogen of commerce contains some oxygen. This was brought out in the testimony for appellee. The Examiner did not hold to the contrary. His reasoning, as we understand it, is that the nitrogen and argon, as recited in the application of appellants, was intended to mean nitrogen or argon free of oxygen. While it appears that one company, Air Reduction, produced nitrogen practically free of oxygen, such gas was for special purposes. It further appears that the same company, in 1939 and thereafter, sold argon guaranteed to contain less than .008% by volume of oxygen. It must be remembered, however, that the specification of appellants does not recite the necessity for the use of pure gas and, therefore, we cannot agree that pure gas was indicated in their specification. The kind of inert gases (oxygen-free), as is defined in the counts and as may be observed in the quoted portion of the patent, is the distinctive and critical feature of the invention.

Appellants' application, in our opinion, does not distinctly provide for oxygen-free gas and we find in it no implied teaching with respect thereto. Therefore, it is immaterial, as was held by the Board, that "nitrogen free of any oxygen content" was available in the patent literature since 1912 or that oxygen-free gas had been made and sold by Air Reduction, since appellants have shown no appreciation or teaching that such gas should be used in their process.

It is clear to us, from a careful examination, that the parent application of appellants fails to support the counts in issue and, therefore, we are in agreement with the Board of Interference Examiners that since appellee's filing date was prior to the filing date of the involved divisional application, he was properly awarded priority of invention of the subject matter of the counts in issue. Accordingly, the decision of the Board of Interference Examiners is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,993,531, H. J. Shivell, Picker check strap, filed Oct. 24, 1950, D. C., W. D. S. C. (Greenville), Doc. 1108, *Slip-Not Belting Corp.* v. *Johnson Belting Co., Inc.*

2,192,525, Rosaire & Horvitz, Geophysical prospecting method; 2,324,085, same, Geochemical well logging; 2,214,674, J. T. Hayward, Method of logging wells, filed Nov. 1, 1950, D. C., N. D. Okla. (Tulsa), Doc. 2745, *The Hycalog Co. et al.* v. *Hayward-Wolff Research Corp. et al.*

2,211,873, P. Whitcomb, Electric hoist; 2,240,523, C. H. Schramm, Sprocket chain guide for a hoist; 2,245,057, same, Electric hoist; 2,286,388, R. E. Smith, Hoist, D. C., W. D. Mich. (Grand Rapids), Doc. 1424, *Manning, Maxwell & Moore, Inc.* v. *Hayden Supply Co.* Order of dismissal Oct. 19, 1950.

2,214,674. (See 2,192,525.)

2,240,288, Crowe & Hall, Molding, D. C., E. D. Mich. (Detroit), Doc. 9599, *Herron-Zimmers Moulding Co. et al.* v. *Regal Motor Products, Inc.* Stipulation and order of dismissal (notice Oct. 31, 1950).

2,240,523. (See 2,211,873.) 2,245,057. (See 2,211,873.)

2,258,413, M. Koven, Gem setting, filed Oct. 26, 1950, D. C., S. D. N. Y., Doc. 60/399, *Coro, Inc.* v. *R. Pearlman, Inc.*

2,260,703, A. J. Daly, Telephone receiver holder, filed Nov. 2, 1950, D. C., S. D. N. Y., Doc. 62/96, *A. J. Daly* v. *Central Technical, Inc.*

2,281,180, P. Christ, Needle threader, D. C., S. D. Calif. (Los Angeles), Doc. 9796–HW, *Thread-Master, Inc.* v. *Threadrite Corp. et al.* Patent held invalid for want of invention (notice Nov. 30, 1950).

2,286,388. (See 2,211,873.)

2,300,157, G. R. Hunt, Feather-picking apparatus for fowls, appeal filed Sept. 27, 1950, C. C. A., 8th Cir., Doc. 14223, *Priebe & Sons Co.* v. *Greenbrier Co. et al.*

2,324,085. (See 2,192,525.)

2,364,533, A. L. Jackson, Electric meat tenderizer; 2,513,025, same, Meat tenderizer, filed Oct. 31, 1950, D. C. Minn. (Minneapolis), Doc. 3533, *Hobart-Federal Engineering Corp.* v. *Allied Store Equipment Co. et al.*

2,445,467, A. Berke, Shipping container, suit for declaratory judgment, D. C., S. D. N. Y., Doc. 52/360, *Fast Pak Container Corp.* v. *Victory Container Corp.* Stipulation and order of discontinuance (notice Oct. 30, 1950).

2,455,905, Ronning, Martin & Keith, Combine, filed Nov. 3, 1950, D. C. Minn. (Minneapolis), Doc. 3541, *Minneapolis-Moline Co.* v. *The Massey-Harris Co.*

2,510,438, K. M. Tuohy, Contact lens, filed Oct. 25, 1950, D. C., S. D. Calif. (Los Angeles), Doc. 12460–Y, *Solex Laboratories, Inc.* v. *Pacific Contact Laboratories, Inc., et al.*

2,512,694, Stout & Terrill, Automatic drain valve; 2,516,711, D. C. Mansur, Field sprinkling apparatus, filed Oct. 24, 1950, D. C. Oreg. (Portland), Doc. 5794, *Stout Irrigation, Inc., et al.* v. *Irrigation Equipment Co., Inc.*

2,513,025. (See 2,364,533.)

2,513,506, D. Mendelson, Viewer and water sprayer, suit for declaratory judgment filed Oct. 27, 1950, D. C., S. D. N. Y., Doc. 62/16, *Wilson Mfg. Co.* v. *Royal Magic & Novelty Co.*

2,516,711. (See 2,512,694.)

2,518,044, R. E. Mattison, Metal awning, filed Oct. 19, 1950, D. C., W. D. Okla. (Oklahoma City), Doc. 4944, *Aluminum Awning Co.* v. *R. E. Mattison.*

2,518,297, M. D. Ercolino, High-frequency antenna, filed Nov. 2, 1950, D. C., S. D. N. Y., Doc. 62/92, *Telrex, Inc.* v. *H. L. Dalis, Inc.*

2,519,570, B. Hayter, Pilot for vaporizing burners, filed Oct. 31, 1950, D. C., E. D. Mich. (Detroit), Doc. 9920, *Breese Burners, Inc.* v. *Lonergan Mfg Co.*

2,521,621, J. R. Winter, Jr., Rocker arm; 2,522,326, same, Rocker arm for internal combustion engines, filed Oct. 26, 1950, D. C. Ohio (Toledo), Doc. 6375, *J. R. Winter, Sr.* v. *Toledo Stamping & Mfg. Co. et al.*

2,522,326. (See 2,521,621.)

2,524,681, V. D. Roosa, Manicuring device, suit for declaratory judgment Oct. 17, 1950, D. C., S. D. N. Y., Doc. 61/289, *A. Sartorius & Co., Inc.* v. *Pinky Products, Inc., et al.*

Des. 157,269, J. F. Laskowitz, Chair; T. M. 520,737, Contour Chair-Lounge Co., Inc., Upholstered chair, filed Nov. 1, 1950, D. C., S. D. Fla. (Miami), Doc. 3547–M, *Contour Chair-Lounge Co., Inc., et al.* v. *Original Products Corp.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 71,420, A. B. Andrews Co., Hosiery, filed Oct. 27, 1950, D. C., S. D. N. Y., Doc. 62/26, *Ely & Walker Dry Goods Co.* v. *Chester H. Roth Co., Inc., et al.*

T. M. 520,737. (See Des. 157,269.)

T. M. 523,388, Wondercrop, Inc., Fresh fruit and vegetables, filed Oct. 26, 1950, D. C., S. D. N. Y., Doc. 61/397, *Wondercrop, Inc., et al.* v. *Senter Bros., Inc.*

T. M. 527,304, G. N. Coughlan Co., Desiccant and dehumidifier, filed Oct. 27, 1950, D. C., N. J. (Trenton), Doc. 837/50, *G. N. Coughlan Co.* v. *No Moist Sales Co.*

NOTICES

Extension of Patents

VETERANS

PUBLIC LAW 598—*81st Congress*

An application for extension of the following patent has been examined and found to conform to the requirements of section 2 of Public Law 598—81st Congress (636 O. G. 1066):

Brooks Walker 2,136,570 November 15, 1938

Any person who believes that he would be injured by the extension of the above-cited patent may, within 45 days from the date of this publication, oppose the granting of such extension "on the ground that any of the statements in the application for extension is not true in fact" (section 3 of the act).

A notice of opposition must be verified and must be filed in duplicate so that a copy may be sent to the patentee.

JOHN A. MARZALL,
Commissioner.

An application for extension of the following patent has been examined and found to conform to the requirements of section 2 of Public Law 598—81st Congress (636 O. G. 1066):

Ralph W. Lohman 1,739,513 December 17, 1929

Any person who believes that he would be injured by the extension of the above-cited patent may, within 45 days from the date of this publication, oppose the granting of such extension "on the ground that any of the statements in the application for extension is not true in fact" (section 3 of the act).

A notice of opposition must be verified and must be filed in duplicate so that a copy may be sent to the patentee.

JOHN A. MARZALL,
Commissioner.

Erratum

In the OFFICIAL GAZETTE of November 28, 1950, Vol. 640, page 1070, first column, Trade-Mark Decision, Rex Cutlery Corporation v. Louis Eloi Pernet, line 14 thereof, for the words "would be" read *would be no*.

Classification Bulletins Nos. 389–396, Inclusive

The Classification Bulletins containing the definitions of the following patent classes, completed as amended through Classification Order No. 82 of Aug. 30, 1950, are now available and may be obtained from the Commissioner of Patents at the prices indicated:

Class	Title	Bulletin No.	Price
312	Supports, Cabinet Structures	389	$0.25
50	Fluid-Pressure Regulators	390	.10
248	Supports	391	.25
251	Valves	392	.10
264	Speed-Responsive Devices	393	.10
277	Multiple Valves	394	.10
280*	Land Vehicles	395	.30
292	Closure Fasteners	396	.20

* This bulletin amended through Classification Order No. 84 of Oct. 18, 1950.

Adjudicated Patents

(D. C. Mich.) Scott patent No. 2,106,329, for apparatus for treating materials. Claims 1 and 6 *Held* invalid and not infringed. *Andrus* v. *Whitman*, 93 F. Supp. 383; 86 USPQ 194.

(D. C. Mich.) Gelbman patent No. 2,275,676, for concrete block machine. Claims 1–4 *Held* valid and infringed. *Id.*

(D. C. Mich.) Gelbman patent No. 2,366,780, for method for making building blocks. Claims 1 and 2 *Held* not infringed. *Id.*

(D. C. N. Y.) Sobel patent No. 2,435,164, for fluorescent hand lamp. Claims 1–3 *Held* valid and infringed. *Paramount Industries* v. *Solar Products Corp.*, 93 F. Supp. 331; 87 USPQ 8.

Interference Notice

Joseph Domko, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Eagle Roller Mill Co., New Ulm, Minnesota, for registration of a trade-mark and Registration No. 285,985, issued August 11, 1931, to Joseph Domko, 1223 W. Cornell Street, Chicago, Illinois, and the notice of such declaration sent by registered mail to the said Joseph Domko at the said address having been returned by the post office undeliverable, notice is hereby given that unless Joseph Domko, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS F. MURPHY,
Nov. 29, 1950. *Assistant Commissioner of Patents.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,426,628. PNEUMATIC TIRE DEVICE. Patented Sept. 2, 1947. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Mechanical attachment for a wheel upon which a pneumatic tire is mounted automatically operates when the tire is deflated to restore the tire to the same diameter as when inflated. It consists of a series of independently pivoted rocker feet mounted on the wheel, each of which swings outwardly into a radially extended position. This supports the inside of the tire casing against collapse upon accidental deflation of the inner tube. (Owner) Jarly C. Malen, Route 1, Box 169, West Bend, Wis. Group 38—31. Reg. No. 39,153.

Pat. 2,484,043. PULLING AND PUSHING DEVICE. Patented Oct. 11, 1949. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Pliers-like device has a portion consisting of a pair of arms with gripping jaws that exert a pull on the outer edges of an object and a pair of central depending fingers that exert a pushing force. The device may be adapted to many purposes, such as removing bottle caps; inserting keys, pins, and bushings; removing gears or bearings from an associated structure; etc. (Owner) Jarly C. Malen, Route 1, Box 169, West Bend, Wis. Group 33—52. Reg. No. 39,154.

Pat. 2,504,139. AUTOMATIC PILOT. Patented Apr. 18, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) An attachment for controlling the steering mechanism of a ship or aircraft. A bowl-like member filled with a suitable flotation liquid is freely suspended from a support secured on the fore and aft line of a ship or aircraft so that it reacts to pitch and roll. A control bar of low magnetic retentivity is mounted on the bowl and has electrical contacts at each end. Tilting of the craft, etc., from its path of level flight results in movement of one of the conducting means relative to a contact so that the steering mechanism minimizes deviation. (Owner) Jarly C. Malen, Route 1, Box 169, West Bend, Wis. Group 37—22—32. Reg. No. 39,155.

Pat. 2,452,464. MORTAR APPLYING DEVICE. Patented Oct. 26, 1948. In this device for applying mortar to tile, etc., a frame has a horizontal plate with a pair of elongated channels and depending end plates with cut-outs for positioning over a tile. Channels are normally closed by valves pivoted to end plates. A spring handle is pressed downwardly to open the valves as frame is extended into the mortar. Handle is released, trapping the mortar in chamber formed by the channels. Frame is placed over a tile, and handle depressed, forcing the valves open and permitting mortar to drop onto opposite edges of the tile. (Owner) James H. Herman, Jr., 1000 Alta Vista, Austin, Tex. Groups 33—52; 35—69. Reg. No. 39,156.

Pat. 2,509,463. CURVED TOOTH ROLLER TYPE LAND CLEARING MACHINE COMBINED WITH TOOTH CLEANER. Patented May 30, 1950. Machine for uprooting small stumps, roots, etc., may be towed by a tractor. Machine is provided with rotatable drum mounted on a transverse shaft. Surface of drum is provided with a series of curved radially disposed ground-engaging spikes arranged in staggered rows. Spring-pressed stripper members engaging the slots are pivotally mounted on a second transverse shaft so that they will oscillate and follow the slots. In operation drum revolves, forcing the spikes into the ground and bringing up stumps, etc., which are removed from spikes by action of strippers. (Owner) Elmer C. Wade, 2109 North 32nd St., Boise, Idaho. Group 35—21—22. Reg. No. 39,157.

Pat. 2,521,262. ELECTRIC MOTOR-DRIVEN LAWN MOWER. Patented Sept. 5, 1950. Mower may be steered and operated from a remote point by manual control. Has motor positioned in the drum to rotate drum and attached cutter blades. An inner sleeve with a slip movement will break the circuit to the motor when the blades strike an obstruction. Motor has armature shaft with friction bushings at each end for driving the wheels. Solenoids to disengage the friction bushing and engage the brake shoes are mounted on the housing. Arms extending from stub shafts of the wheels are connected through slots to the solenoids and to springs. A cable-carrying arm pivoted to housing may be moved from one side of machine to the other by the solenoids to keep the cable out of the way when the mower turns. (Owner) William T. Smith, P. O. Box 822, Central Station, St. Louis 1, Mo. Group 35—22. Reg. No. 39,158.

Swift & Company has placed the following six patents on the Register in addition to several hundred patents previously registered. Inquiries concerning licenses may be directed to Swift & Company, Union Stock Yards, Chicago 9, Ill.

Pat. 2,416,196. METHOD FOR SOLVENT EXTRACTION OF FATTY MATERIALS. Patented Feb. 18, 1947. Oleaginous substances are extracted from watery slurries (e. g., packing house sludge, fuller's earth used for filtering fats and oils, etc.) in the presence of a solvent while heating the mixture to a temperature below the boiling point of the solvent. When agitation is reduced (without lowering the temperature of the mixture), the solvent layer containing the fatty material separates from the water, after which the solvent is removed to recover the fatty material. Group 28—95. Reg. No. 39,159.

Pat. 2,507,480. MANUFACTURE OF CHEESE. Patented May 9, 1950. Process for producing a cheese product having greater nutrient value, increased yield, and a greater proportion of milk proteins. The process consists of coagulating lactalbumin from whey separated from a previously treated quantity of milk, homogenizing the product, adding it to a milk product in controlled proportions, and curdling the milk with rennet and lactic acid. Group 20—22. Reg. No. 39,160.

Pat. 2,507,482. METHOD OF PRODUCING A LACTEAL BEVERAGE. Patented May 9, 1950. Process for the preparation of a malted milk shake type beverage in which the use of ice cream is eliminated. Dry powdered ice cream mix and the proper proportion of water and ice are mixed in the conventional mixer until a smooth, thick cold beverage is produced. Among advantages claimed are the elimination of extensive equipment, the convenience of handling, etc. Examples of several dry mixes are described in the patent. Group 20—24—25. Reg. No. 39,161.

Pat. 2,509,509. TREATMENT OF SPENT BLEACHING AGENTS. Patented May 30, 1950. Used bleaching agents such as fuller's earth used in the refining of fats and oils

are treated with a hydrocarbon solvent such as liquefied propane to recover valuable oils adsorbed during the refining process. The mixture is heated to 100–130° F., and subjected to fractionation to effect further separation. The agents are recovered free of color bodies, etc., and are available for re-use. Suggested equipment and numerous examples are described in the patent. Groups 20—11; 26—29; 32—95. Reg. No. 39,162.

Pat. 2,515,165. CONVEYING AND RASPING EQUIPMENT FOR LUMPY MATERIAL SUCH AS SUPERPHOSPHATE AND THE LIKE. Patented July 11, 1950. Equipment for moving acid-treated rock used in the manufacture of fertilizer. Material is discharged from a free-swinging end of a conveyor which travels at a relatively slow speed to a rasper attachment moving at a relatively high speed. The arrangement is such that the slow movement of the conveyor causes little wear and the high speed rasper effectively throws material discharged from the conveyor a considerable distance to a bin where the material is evenly distributed. Group 35—22—62. Reg. No. 39,163.

Pat. 2,518,700. COATING COMPOSITION. Patented July 25, 1950. A dispersing agent (such as sodium pentachlorophenolate) incorporated in a casein urea paper or textile coating solution makes possible better control in applying the solution, prevents waste, and acts as a preservative against bacterial destruction. The solution may be diluted infinitely without the precipitation of any casein and does away with formaldehyde as a preservative. Groups 22—54; 26—31—33; 28—81—04—99. Reg. No. 39,164.

Petrolite Corporation, Ltd., has placed 290 patents on the Register, in addition to the more than 400 registered during 1946. Non-exclusive licenses are available on reasonable terms.

Of these patents, 128 were published in the OFFICIAL GAZETTE, Dec. 19, 1950, with Reg. Nos. 39,025 through 39,152.

The following 151 patents relate to certain chemical compositions and to processes for manufacturing certain chemical compositions. Groups 28—29—31—34—89; 29—11. Applications for licenses in this group should be addressed to: Petrolite Corporation, Ltd., 937 Pacific Ave., Webster Groves 19, Mo.

Pat. 2,020,998. New Composition of Matter. Nov. 12, 1935. Reg. No. 39,165.

Pat. 2,020,999. Sulpho Fatty Body. Nov. 12, 1935. Reg. No. 39,166.

Pat. 2,025,803. Oxidized Product of Water-Insoluble Hydroxylated Fatty Acids. Dec. 31, 1935. Reg. No. 39,167.

Pat. 2,025,806. Process for Producing Oxidation Products of Castor Oil and the Like. Dec. 31, 1935. Reg. No. 39,168.

Pat. 2,025,807. Process for Producing Certain Oxidation Products of Castor Oil and the Like. Dec. 31, 1935. Reg. No. 39,169.

Pat. 2,025,808. Process for Producing Certain Oxidation Products of Castor Oil and the Like. Dec. 31, 1935. Reg. No. 39,170.

Pat. 2,025,809. Process for Producing Certain Oxidation Products of Castor Oil and the Like. Dec. 31, 1935. Reg. No. 39,171.

Pat. 2,036,402. Sulpho-Aromatic Derivatives of Hendecenoic Acid and Method of Producing Same. Apr. 7, 1936. Reg. No. 39,172.

Pat. 2,039,083. Polyketo Fatty Acid Body. Apr. 28, 1936. Reg. No. 39,173.

Pat. 2,039,084. Polyketo Fatty Acid Body. Apr. 28, 1936. Reg. No. 39,174.

Pat. 2,081,795. Sulphoaromatic Compound of Certain Higher Aliphatic Ketones. May 25, 1937. Reg. No. 39,175.

Pat. 2,087,506. Quaternary Ammonium Salts of High Molecular Weight Acids. July 20, 1937. Reg. No. 39,176.

Pat. 2,123,718. Esters of Urea-Alkylene Oxide Condensation Products. July 12, 1938. Reg. No. 39,177.

Pat. 2,184,794. Mixed Esters. Dec. 26, 1939. Reg. No. 39,178.

Pat. 2,194,643. Composition of Matter. Mar. 26, 1940. Reg. No. 39,179.

Pat. 2,194,644. Composition of Matter. Mar. 26, 1940. Reg. No. 39,180.

Pat. 2,194,645. Composition of Matter. Mar. 26, 1940. Reg. No. 39,181.

Pat. 2,194,646. Composition of Matter. Mar. 26, 1940. Reg. No. 39,182.

Pat. 2,216,310. Composition of Matter and Method of Manufacturing Same. Oct. 1, 1940. Reg. No. 39,183.

Pat. 2,216,312. Composition of Matter. Oct. 1, 1940. Reg. No. 39,184.

Pat. 2,226,115. New Composition of Matter and Method of Making Same. Dec. 24, 1940. Reg. No. 39,185.

Pat. 2,226,116. New Composition of Matter and Method of Making Same. Dec. 24, 1940. Reg. No. 39,186.

Pat. 2,226,117. Composition of Matter. Dec. 24, 1940. Reg. No. 39,187.

Pat. 2,226,124. Composition of Matter. Dec. 24, 1940. Reg. No. 39,188.

Pat. 2,226,125. Composition of Matter. Dec. 24, 1940. Reg. No. 39,189.

Pat. 2,226,126. Composition of Matter. Dec. 24, 1940. Reg. No. 39,190.

Pat. 2,228,985. Ricinoleic Acid Ester of Triethanolamine. Jan. 14, 1941. Reg. No. 39,191.

Pat. 2,228,986. Wetting, Dispersing, or Emulsifying Agent. Jan. 14, 1941. Reg. No. 39,192.

Pat. 2,228,987. Ethers of Fatty Acid Esters. Jan. 14, 1941. Reg. No. 39,193.

Pat. 2,228,988. Wetting, Emulsifying, and Dispersing Agents. Jan. 14, 1941. Reg. No. 39,194.

Pat. 2,228,989. Ethers of Partially Esterified Alkylolamines. Jan. 14, 1941. Reg. No. 39,195.

Pat. 2,252,957. Process for Producing Petroleum Sulphonates. Aug. 19, 1941. Reg. No. 39,196.

Pat. 2,266,960. Composition of Matter. Dec. 23, 1941. Reg. No. 39,197.

Pat. 2,270,681. Salts of Certain Methylene Diamines With Certain Petroleum Sulphonic Acids. Jan. 20, 1942. Reg. No. 39,198.

Pat. 2,278,163. Aldimine Salts of Petroleum Sulphonic Acids. Mar. 31, 1942. Reg. No. 39,199.

Pat. 2,281,316. Composition of Matter and Method of Producing the Same. Apr. 28, 1942. Reg. No. 39,200.

Pat. 2,282,644. Subresinous Acylation Reaction Compound. May 12, 1942. Reg. No. 39,201.

Pat. 2,282,645. Subresinous Acylation Reaction Compound. May 12, 1942. Reg. No. 39,202.

Pat. 2,282,646. Ricinoleic Acid Ester. May 12, 1942. Reg. No. 39,203.

Pat. 2,290,412. Methylene Diamine Ester and Method of Making Same. July 21, 1942. Reg. No. 39,204.

Pat. 2,292,824. Composition of Matter. Aug. 11, 1942. Reg. No. 39,205.

Pat. 2,293,494. Process for Making Certain Amino Ethers and Various Acylated Derivatives Thereof. Aug. 18, 1942. Reg. No. 39,206.

Pat. 2,300,556. Amino Polyglycol Ether. Nov. 3, 1942. Reg. No. 39,207.

Pat. 2,310,679. Oxyalkylated Lecithin and Method of Making Same. Feb. 9, 1943. Reg. No. 39,208.

Pat. 2,328,062. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Aug. 31, 1943. Reg. No. 39,209.

Pat. 2,329,394. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Sept. 14, 1943. Reg. No. 39,210.

Pat. 2,329,395. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Sept. 14, 1943. Reg. No. 39,211.

Pat. 2,330,472. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Sept. 28, 1943. Reg. No. 39,212.

Pat. 2,330,473. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Sept. 28, 1943. Reg. No. 39,213.

Pat. 2,334,389. Ester and Method of Making Same. Nov. 16, 1943. Reg. No. 39,214.

Pat. 2,334,390. Water-Insoluble Oxyalkylated Drastically Oxidized Castor Oil and Method of Making Same. Nov. 16, 1943. Reg. No. 39,215.

Pat. 2,334,391. Drastically Oxidized Water-Insoluble Oxyalkylated Triricinolein and Method of Making Same. Nov. 16, 1943. Reg. No. 39,216.

Pat. 2,335,489. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Nov. 30, 1943. Reg. No. 39,217.

Pat. 2,342,113. Composition of Matter, Method of Making Same, and Improved Lubricating Oil. Feb. 22, 1944. Reg. No. 39,218.

Pat. 2,342,114. Composition of Matter, Method of Making Same, and Improved Lubricating Oil. Feb. 22, 1944. Reg. No. 39,219.

Pat. 2,344,539. Salts of Certain Methylene Diamines With Certain Petroleum Sulphonic Acids. Mar. 21, 1944. Reg. No. 39,220.

Pat. 2,348,613. Quaternary Ammonium Compound and Method of Making Same. May 9, 1944. Reg. No. 39,221.

Pat. 2,354,578. Method of Manufacturing Certain Acylated Polyamino Ethers. July 25, 1944. Reg. No. 39,222.

Pat. 2,354,579. Method of Manufacturing Certain Acylated Polyamino Ethers. July 25, 1944. Reg. No. 39,223.

Pat. 2,354,580. Method of Manufacturing Certain Acylated Polyamino Ethers. July 25, 1944. Reg. No. 39,224.

Pat. 2,357,933. Composition of Matter and Method of Making Same. Sept. 12, 1944. Reg. No. 39,225.

Pat. 2,357,934. Composition of Matter and Method of Making Same. Sept. 12, 1944. Reg. No. 39,226.

Pat. 2,357,935. Composition of Matter and Method of Making Same. Sept. 12, 1944. Reg. No. 39,227.

Pat. 2,357,936. Composition of Matter and Method of Making Same. Sept. 12, 1944. Reg. No. 39,228.

Pat. 2,357,937. Composition of Matter and Method of Making Same. Sept. 12, 1944. Reg. No. 39,229.

Pat. 2,363,034. Composition of Matter. Nov. 21, 1944. Reg. No. 39,230.

Pat. 2,363,035. Composition of Matter. Nov. 21, 1944. Reg. No. 39,231.

Pat. 2,363,045. Certain Water-Soluble High Molal Oxyalkylated Esters. Nov. 21, 1944. Reg. No. 39,232.

Pat. 2,363,046. Certain Water-Soluble High Molal Oxyalkylated Esters. Nov. 21, 1944. Reg. No. 39,233.

Pat. 2,363,047. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Nov. 21, 1944. Reg. No. 39,234.

Pat. 2,363,048. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Nov. 21, 1944. Reg. No. 39,235.

Pat. 2,363,049. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Nov. 21, 1944. Reg. No. 39,236.

Pat. 2,364,779. Subresinous Acylated Polyamine. Dec. 12, 1944. Reg. No. 39,237.

Pat. 2,366,239. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Jan. 2, 1945. Reg. No. 39,238.

Pat. 2,366,240. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. Jan. 2, 1945. Reg. No. 39,239.

Pat. 2,366,498. New Composition of Matter. Jan. 2, 1945. Reg. No. 39,240.

Pat. 2,369,817. Basic Acylated Cyclic Diamine. Feb. 20, 1945. Reg. No. 39,241.

Pat. 2,369,818. Certain Water-Soluble High Molal Oxyalkylated Esters, and Method of Making Same. Feb. 20, 1945. Reg. No. 39,242.

Pat. 2,371,429. Certain Water Soluble High Molal Oxyalkylated Esters, and Method of Making Same. Mar. 13, 1945. Reg. No. 39,243.

Pat. 2,372,364. Composition of Matter and Method of Making Same. Mar. 27, 1945. Reg. No. 39,244.

Pat. 2,372,365. Composition of Matter and Method of Making Same. Mar. 27, 1945. Reg. No. 39,245.

Pat. 2,372,366. Composition of Matter and Method of Making Same. Mar. 27, 1945. Reg. No. 39,246.

Pat. 2,372,641. Composition of Matter. Apr. 3, 1945. Reg. No. 39,247.

Pat. 2,373,228. Composition of Matter and Method of Making Same. Apr. 10, 1945. Reg. No. 39,248.

Pat. 2,373,229. Esteramides. Apr. 10, 1945. Reg. No. 39,249.

Pat. 2,373,230. Ester Diamides. Apr. 10, 1945. Reg. No. 39,250.

Pat. 2,375,516. Lubricating Oil. May 8, 1945. Reg. No. 39,251.

Pat. 2,375,529. Certain Water-Soluble High Molal Oxyalkylated Esters and Method of Making Same. May 8, 1945. Reg. No. 39,252.

Pat. 2,375,530. Composition of Matter and Method of Making Same. May 8, 1945. Reg. No. 39,253.

Pat. 2,375,531. Composition of Matter and Method of Making Same. May 8, 1945. Reg. No. 39,254.

Pat. 2,375,532. Acylated Hydroxylated Polyamine. May 8, 1945. Reg. No. 39,255.

Pat. 2,375,533. Esters of Hydroxylated Acylated Ureas. May 8, 1945. Reg. No. 39,256.

Pat. 2,375,540. Composition of Matter and Method of Making Same. May 8, 1945. Reg. No. 39,257.

Pat. 2,375,606. Chemical Compound and Method of Producing Same. May 8, 1945. Reg. No. 39,258.

Pat. 2,375,899. Salts of Certain Substituted Aldimines, Etc. May 15, 1945. Reg. No. 39,259.

Pat. 2,381,115. New Chemical Compound and Method of Making Same. Aug. 7, 1945. Reg. No. 39,260.

Pat. 2,381,116. Certain Subresinous Esterification Derivatives of High Molal Hydroxy Acid Amides and Method of Making Same. Aug. 7, 1945. Reg. No. 39,261.

Pat. 2,381,117. Ester-Linked Acyl Amides and Method of Making Same. Aug. 7, 1945. Reg. No. 39,262.

Pat. 2,381,118. Certain Ester-Linked Acylated Derivatives of Polyamino Ether Alcohols and Method of Making Same. Aug. 7, 1945. Reg. No. 39,263.

Pat. 2,381,575. Ester-Linked Acylated Amino Alcohols and Method of Making Same. Aug. 7, 1945. Reg. No 39,264.

Pat. 2,381,576. Certain Subresinous Esterification Derivatives of Acylated Polyamines and Method of Making Same. Aug. 7, 1945. Reg. No. 39,265.

Pat. 2,381,577. Subresinous Esterification Derivatives of Hydroxylated Amides and Method of Making Same. Aug. 7, 1945. Reg. No. 39,266.

Pat. 2,382,612. Esterification Reaction Product and Method of Making Same. Aug. 14, 1945. Reg. No. 39,267.

Pat. 2,384,080. Subresinous Esterification Derivatives of Hydroxylated Acylated Diamides and Method of Making Same. Sept. 4, 1945. Reg. No. 39,268.

Pat. 2,384,081. Esterification Derivatives of Polyacylated Amides and Method of Making Same. Sept. 4, 1945. Reg. No. 39,269.

Pat. 2,384,595. Lubricating Oil. Sept. 11, 1945. Reg. No. 39,270.

Pat. 2,384,605. Derivatives of 5-Amino-1,3-Dioxanes and Method of Making Same. Sept. 11, 1945. Reg. No. 39,271.

Pat. 2,384,606. Derivatives of 5-Amino-1,3-Dioxanes and Method of Making Same. Sept. 11, 1945. Reg. No. 39,272.

Pat. 2,384,607. Derivatives of 5-Amino-1,3-Dioxanes and Method of Making Same. Sept. 11, 1945. Reg. No. 39,273.

Pat. 2,384,608. Acylated Aminoalcohol Esters of Carbonic Acid. Sept. 11, 1945. Reg. No. 39,274.

Pat. 2,386,445. Composition of Matter. Oct. 9, 1945. Reg. No. 39,275.

Pat. 2,386,446. Composition of Matter. Oct. 9, 1945. Reg. No. 39,276.

Pat. 2,386,936. Certain Pyridinium Compounds and Method of Making the Same. Oct. 16, 1945. Reg. No. 39,277.

Pat. 2,386,937. Urea Pyridinium Compounds. Oct. 16, 1945. Reg. No. 39,278.

Pat. 2,394,432. Composition of Matter and Method of Making Same. Feb. 5, 1946. Reg. No. 39,279.

Pat. 2,395,400. Composition of Matter and Method of Making Same. Feb. 26, 1946. Reg. No. 39,280.

Pat. 2,400,393. New Composition of Matter. May 14, 1946. Reg. No. 39,281.

Pat. 2,401,055. Composition of Matter and Method of Making Same. May 28, 1946. Reg. No. 39,282.

Pat. 2,403,343. Composition of Matter and Method of Making Same. July 2, 1946. Reg. No. 39,283.

Pat. 2,403,344. Composition of Matter and Method of Making Same. July 2, 1946. Reg. No. 39,284.

Pat. 2,403,345. Composition of Matter and Method of Making Same. July 2, 1946. Reg. No. 39,285.

Pat. 2,405,737. Certain Sulphosuccinates and Method of Making Same. Aug. 13, 1946. Reg. No. 39,286.

Pat. 2,406,206. Hydroxyacetylated Drastically-Oxidized Ricinoleic Acid Compounds and Method of Making Same. Aug. 20, 1946. Reg. No. 39,287.

Pat. 2,411,029. Subresinous Polyesters. Nov. 12, 1946. Reg. No. 39,288.

Pat. 2,411,957. Esteramides. Dec. 3, 1946. Reg. No. 39,289.

Pat. 2,412,557. Lubricating Oils. Dec. 17, 1946. Reg. No. 39,290.

Pat. 2,412,708. Lubricating Oils. Dec. 17, 1946. Reg. No. 39,291.

Pat. 2,413,814. Composition Containing an Esterified Acidic Sulfo-Polycarboxy Acid Fractional Ester of an Oxyethylated Alcoholiform Polyhydroxy Body. Jan. 7, 1947. Reg. No. 39,292.

Pat. 2,422,881. Lubricating Oils. June 24, 1947. Reg. No. 39,293.

Pat. 2,423,365. Amino-Ester Compounds. July 1, 1947. Reg. No. 39,294.

Pat. 2,426,338. Acylated Amines. Aug. 26, 1947. Reg. No. 39,295.

Pat. 2,426,489. Oxidized Dimer of 9,11-Linolo-Diricinolein and Method of Making Same. Aug. 26, 1947. Reg. No. 39,296.

Pat. 2,426,490. Hydroxyacetylated and Oxidized Dimer of 9,11-Linolo-Diricinolein, and Method of Making Same. Aug. 26, 1947. Reg. No. 39,297.

Pat. 2,430,004. Certain Dicarboxy Acid Esters of Oxyalkylated Polymerized Hydroxyamines. Nov. 4, 1947. Reg. No. 39,298.

Pat. 2,444,328. Composition of Matter. June 29, 1948. Reg. No. 39,299.

Pat. 2,446,045. Composition of Matter and Method of Making Same. July 27, 1948. Reg. No. 39,300.

Pat. 2,450,124. Polyhydric Alcohol Esters. Sept. 28, 1948. Reg. No. 39,301.

Pat. 2,450,332. Polycarboxy Esters of Dimerized 9,11-Linolo-Diricinolein and Method of Making Same. Sept. 28, 1948. Reg. No. 39,302.

Pat. 2,450,333. Polyhydric Alcohol Esters. Sept. 28, 1948. Reg. No. 39,303.

Pat. 2,473,577. Carbonic Acid Amides of Certain Substituted Glyoxalidines. June 21, 1949. Reg. No. 39,304.

Pat. 2,499,360. Oxyalkylated Diphenylolmethanes and Derivatives Thereof. Mar. 7, 1950. Reg. No. 39,305.

Pat. 2,499,361. Oxyalkylated Phenol-Aldehyde Diols and Derivatives Thereof. Mar. 7, 1950. Reg. No. 39,306.

Pat. 2,499,362. Oxyalkylated Phenol-Aldehyde Diols and Derivatives Thereof. Mar. 7, 1950. Reg. No. 39,307.

Pat. 2,499,363. Oxyalkylated Phenol-Aldehyde Diols and Derivatives Thereof. Mar. 7, 1950. Reg. No. 39,308.

Pat. 2,499,364. Oxyalkylated Phenol-Aldehyde Diols and Derivatives Thereof. Mar. 7, 1950. Reg. No. 39,309.

Pat. 2,505,948. Pyridinium Esters. May 2, 1950. Reg. No. 39,310.

Pat. 2,510,335. Certain Oxyalkylated Blown Oils and Method of Making Same. June 6, 1950. Reg. No. 39,311.

Pat. 2,517,091. Monopyridinium Derivatives of Esterified Oxyalkylated Diphenylol Methanes. Aug. 1, 1950. Reg. No. 39,312.

Pat. 2,517,092. Monopyridinium Derivatives of Esters of Oxyalkylated Diphenylol Methanes. Aug. 1, 1950. Reg. No. 39,313.

Pat. 2,517,093. Pyridinium Derivatives of Phenoxyalkanol Esters. Aug. 1, 1950. Reg. No. 39,314.

Pat. 2,517,094. Dipyridinium Derivatives of Esterified Oxyalkylated Diphenylol Methanes. Aug. 1, 1950. Reg. No. 39,315.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING NOVEMBER, 1950

HOLLAND-RANTOS COMPANY, INC. *v.* HENRY LABORATORIES, INC., 173 Ms. D. 30, 87 USPQ 226, November 2, 1950, Opposition No. 28,345.

Examiner-in-Chief Federico reversed the decision of the Examiner of Interferences who had sustained an opposition to the registration of a mark used for a douche powder for feminine hygiene, the mark being as follows:

H.L. Feminine Hygiene Powder

Opposer relied upon its Registration No. 505,674 for a mark used for vaginal jelly, the mark being as follows:

It was held that the products involved are too closely related to permit the registration of the same or confusingly similar marks for them, but that the two marks are totally distinct visually.

EX PARTE BERTICE PAULINE GARRISON (PAULA, INC., ASSIGNEE, SUBSTITUTED), 173 Ms. D. 22, 87 USPQ 252, November 3, 1950.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Marks refusing to register, under the act of 1905, the words "Sleeping is a Serious Business" for night gowns, pajamas, play suits, pajama coats or shirts, bed slippers and boots, bonnets, mittens, bed jackets, and house coats, and robes, for men, women, and children, the word "Sleeping" being disclaimed apart from the mark as shown, on the ground that the expression is merely in the nature of an advertising slogan which is lacking in trade-mark significance because it is incapable of identifying applicant's goods and distinguishing them from those of others.

It was held that the phrase readily suggests to the ordinary individual that applicant's goods are particularly suited for sleeping, so that it is clearly a laudatory or puffing expression indicating quality rather than origin.

AMERICAN TEXTILE COMPANY, INC. *v.* REVELATION BRA CORPORATION, 173 Ms. D. 24, 87 USPQ 253, November 8, 1950, Opposition No. 26,155, Interference No. 4012.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Interferences sustaining the opposition to the registration of the trade-mark "Goddess" for use on brassières and bandeaux. Opposer relied upon use of the same trade-mark "Goddess" on lace piece goods, for which it filed application to register the mark, an interference having been subsequently declared between the parties, and the opposition and interference having been consolidated by agreement.

It was held that the goods in connection with which the marks are used possess the same descriptive properties as to be likely to cause confusion or mistake in the minds of the public.

The undisputed fact being that American adopted and used the trade-mark "Goddess" on lace piece goods prior to adoption of the same mark by Revelation on its goods, in view of the identity of the marks and the likelihood of confusion arising from their use on the goods of the respective parties, it was held that the Examiner of Interferences properly sustained the opposition.

As to the interference, in view of the conclusion reached in the opposition proceedings, it was held that the Examiner rightly ruled that the junior party (American) is entitled to registration for which it has made application and that the senior party (Revelation) is not entitled to the registration for which it has made application.

EX PARTE HELENA RUBINSTEIN, INC., 173 Ms. D. 28, 87 USPQ 257, November 10, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing to register the trade-mark "lipstick four-cast" for use on goods originally defined as lipstick, but later amended to read "combination of four lipsticks, sold as a unit," in view of Registration No. 412,382, "BRIGHT FORECASE," for nail enamel, lipstick, and face powder.

It was held that the goods possess the same descriptive properties, even though they are not pre-

cisely identical, and that the marks, although not identical, considered as a whole, are too nearly alike in sound, particularly with regard to the dominant portion thereof, to warrant registration of applicant's mark.

GENERAL MOTORS CORPORATION *v.* DELCO RUBBER CORPORATION, 173 Ms. D. 35, 87 USPQ 255, November 10, 1950, Opposition No. 27,885.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Interferences sustaining the opposition to registration on the Principal Register under the Act of 1946 of a mark consisting of the notation "DELCO PRODUCTS" reproduced on the application drawing in white letters on a black background of fanciful design for use on rubber and synthetic rubber goods. Opposer relied upon its ownership of the names "DELCO" and "DELCO PRODUCTS" used as the dominant and distinctive word or words in the names of a number of its corporate divisions, and also used in connection with their extensive manufacture, sale, and advertising of a wide and extensive line of goods including rubber separators in sheet form for storage batteries, among a variety of other articles, long prior to any use claimed by the applicant.

It was held that the description of goods as stated in the application is broad enough to include rubber sheets of the character sold by opposer in the form of opposer's battery separator plates.

It was held that the trade-mark "DELCO" when applied to the goods of the applicant would be likely to cause confusion as to the origin of the goods.

SMITH, KLINE & FRENCH LABORATORIES *v.* STUART-CHASE CO., 173 Ms. D. 39, 87 USPQ 252, November 10, 1950, Opposition No. 28,011.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the notice of opposition to an application for registration, on the Principal Register under the Act of 1946, of the words "DISTREX INHALATOR," the word "Inhalator" being disclaimed, as a trade-mark for a medicinal preparation for the treatment of hay fever, head colds, etc. Opposer relied upon its trade-mark "DEXTRETTES" for a medicinal composition for the treatment of obesity, circulatory, and digestive disturbances, Registration No. 287,294.

It was held that the notations "DISTREX" and "DEXTRETTES" contain substantial features of dissimilarity in both appearance and sound, and that the goods of the parties are designed for use in treating unrelated complaints, so that these differences are cumulative in their effect, and are sufficient to obviate any reasonable likelihood of confusion, mistake, or deception of purchasers if the two marks in question were concurrently used on the goods of the respective parties.

EX PARTE CARL GILL, 173 Ms. D. 41, 87 USPQ 274, November 17, 1950.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Marks refusing to register on the Principal Register under the Trade-Mark Act of 1946 the mark "ZURI" as a service mark relating to the painting of automobiles on the ground that applicant's services are not performed "in commerce" within the meaning of the Act.

It was held that applicant has not established that he is in fact engaged in interstate commerce since the painting is done entirely and exclusively in the State of Pennsylvania as far as the record shows.

MCKESSON & ROBBINS, INC. *v.* FISCHER INDUSTRIES, INC., 173 Ms. D. 44, 87 USPQ 272, November 17, 1950, Opposition No. 27,337.

Assistant Commissioner Murphy affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition to the registration, under the Trade-Mark Act of 1946, of the word "ABBOLENE" as applied to a synthetic detergent for glass, chrome, automobile bodies, woodwork, painted and highly lacquered surfaces, and for general cleaning. Opposer is the owner of the Registrations Nos. 56,690 and 412,392, both for the mark "ALBOLENE" as applied to baby powder and to products of petroleum as a medicinal agent for internal and external use, and as a cleansing cream.

After noting that while the marks of the two parties are not identical they are confusingly similar, but no issue is raised on that point, it was held that the goods of the respective parties are not so related that confusion in trade as to origin of goods would be likely to result from the concurrent use of the two marks, since the two products are different in physical characteristics, mode of use and function, and as far as the record shows are sold in different channels of trade.

EX PARTE THE RELIANCE GAUGE COLUMN COMPANY, 173 Ms. D. 46, 87 USPQ 298, November 21, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing to register the mark "Reliance" for goods described in the application as "boiler water column indicators with or without alarms, and boiler water gages and gage cocks, in Class 34, heating, lighting, and ventilating apparatus," on the Principal Register under the Act of 1946.

It was held that the Examiner correctly held that boiler indicators and gages are proper subject matter for Class 26, while gage cocks properly belong in Class 13, and that in order that the mark may be registered in Class 34, it must appear with certainty that the applicant has used the mark on goods classified in that class.

It was held that Registrations Nos. 88,025 and 161,597 cited by the Examiner cannot be considered since the last paragraph of section 46(b) of the Trade-Mark Act of 1946 specifically provides that marks registered under previous acts may also be registered under the new act.

It was held that the mark "Reliance" should not be registered by allowance of this case, in view of certain already existing registrations, obtained under the Act of 1946, owned by the applicant for the same mark applied to the same goods, namely, Registration No. 504,764 for Liquid Level Columns, Liquid Level Controls, Liquid Level Gages in Class 26, Measuring and scientific appliances, and Registration No. 504,578 for Liquid Gage Valves, Gage Cocks and Floats, in Class 13, Hardware and plumbing and steam-fitting supplies, since in the present application applicant would again register its mark by joining two specific types of goods recited in the prior registrations, severally, in a single class; in other words, applicant would combine certain goods of his prior registrations, under the exact same notation, in still another class in which they have not been shown properly to belong.

EX PARTE F. & V. MANUFACTURING CO., INC., 173 Ms. D. 50, 87 USPQ 302, November 22, 1950.

Examiner-in-Chief Federico affirmed the decision of the Examiner refusing to register the mark "FLEX-WEAVE" for metal link ornamental bracelets for wrist watches on the ground that the mark is descriptive of the goods to which it is appropriated, or, if not descriptive, it is misdescriptive of the goods.

It was held that the word "Flex" used in the mark has an obvious descriptive meaning in connection with the goods.

It was held that although applicant's goods may be of a linked variety, the term "weave" is then misdescriptive, for metal mesh wrist watch bracelets having the appearance of woven bands are well known in the trade so that it seems clear that the term "weave" applied to a metal mesh bracelet is descriptive, as the term "weave," or "woven," is applicable to materials other than vegetable or animal fibers and is commonly so used.

THE B. F. GOODRICH COMPANY *v.* POWELL & CAMPBELL, INC., 173 Ms. D. 51, 87 USPQ 300, November 22, 1950, Opposition No. 27,640.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Interferences dismissing the opposition to the application for registration of the words "SHOE KING" as a trade-mark for boots, shoes, slippers, sandals, and rubbers made of leather, rubber, canvas, and fabric, and combinations thereof, for men, women, children, infants, and babies, the generic name "shoe" being disclaimed in the application.

As a first ground of opposition there was pleaded adoption and use for many years of a number of marks embodying the word "KING" for similar goods. A second ground of opposition was that the word "King" is merely a laudatory expression devoid of trade-mark significance.

It was held that the Examiner of Interferences properly dismissed the opposition as to the first ground as being fatally defective because of the failure of the opposer to set up a claim of priority of use, since pleading and proof of use prior to the filing date of the application is not the same as pleading use prior to applicant's use.

It was held that the Examiner of Interferences rightly dismissed the opposition as to the second ground because of failure of opposer to establish the ground, since the large number of registrations to others placed in the record, containing the word "King," not discussed by opposer with none of the marks of others being asserted to be prior to applicant's use, is insufficient to establish opposer's case that the word "King" has lost any trade-mark significance as applied to footwear and that "SHOE KING" is therefore unregistrable.

EX PARTE CLAIRMINT CHEMICAL COMPANY, INC., 173 Ms. D. 55, 87 USPQ 328, November 28, 1950.

Examiner-in-Chief Klinge affirmed the decision of the Examiner of Trade-Marks refusing to register, on the Principal Register under the Trade-Mark Act of 1946, the mark "Tridine" applied to a compound in pills, capsules, tablet, or liquid form containing iodine for use in the treatment and prevention of thyroid and of other diseases. Registration was refused in view of prior Registration No. 257,711 of the composite trade-mark "T-R-I D-Y-N-E," applied to ointment for skin diseases and prior Registration No. 405,297 for the mark "TRIDIONE," applied to an analgesic.

It was held that the Examiner was right in ruling that the similarities between applicant's mark and the prior registrations far outweigh their dissimilarities, and in view of the fact that the goods to which they are applied are medicinal preparations which are sold through the same channels of trade to the same class of purchasers, confusion or mistake would arise in the minds of purchasers.

SEARS, ROEBUCK AND CO. *v.* WILLIAM MCKINLEY BAIRD, 173 Ms. D. 57, 87 USPQ 329, November 29, 1950, Opposition No. 27,990, Cancelation No. 5262.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Interferences dismissing the notice of opposition to the registration of the mark "COLDBLAST" for refrigerated locker units and dismissing the petition to cancel Trade-Mark Registration No. 408,681, under the Act of 1920, for the mark "COLD BLAST" for refrigerated locker units. Opposer and petitioner relied upon its prior use of

the mark "Coldspot," three prior registrations for this mark being recited, viz.: No. 274,445 for electric refrigerators, No. 333,372 for automatic kerosene and gas refrigerators and No. 334,802 specifying the same goods.

After noting that there is no question as to petitioner's priority, it was held that the respective goods of the parties are too closely related for the same or confusingly similar marks to be used on each.

It was held that the examiner was right in holding that the respective marks "Coldspot" and "Coldblast" are not confusingly similar on the ground that the only common part of the marks is the word "cold" which as applied to refrigerators is descriptive and will be so considered by the purchasing public, and that the other part of the marks, "spot" and "blast" are dissimilar in sound, appearance, and suggestive meaning.

After noting that with respect to the question of nonuse and abandonment raised in the cancelation proceeding, the Examiner held that petitioner had not overcome defendant's prima facie case, and the Examiner further held that since the marks involved are not confusingly similar, petitioner could not urge abandonment and nonuse by defendant, the Examiner's holding that petitioner has not overcome defendant's prima facie case, with respect to abandonment and nonuse, was vacated, but the holding that this ground cannot be raised was affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 26, 1950

[VOL. 641. No. 4]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 500,662. Impervious Products Co., Chicago, Ill. Filed Apr. 22, 1946.

HERMO-SEAL

The word "Seal" is disclaimed.

For Water Proofing, Fire Proofing and Sealing Compound in Liquid and Plastic-Like Form Adapted To Be Applied With a Brush or by Dipping and Adapted for Sealing Small Pores or Openings in Porous Fabric Materials.

Claims use since Mar. 4, 1946.

Ser. No. 508,747. The Sight Feed Generator Company, West Alexandria, Ohio. Filed Sept. 9, 1946.

Sight Feed

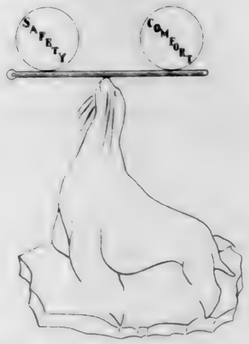
For Welding Fluxes.

Claims use since July 15, 1946.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 521,447. G. Milo Graham, doing business as Thermo-Fluf Insulation Company, Wichita, Kans. Filed Apr. 28, 1947.



The words "Safety" and "Comfort" are disclaimed.

For Building Insulation Material in Loose Form, and Composed of Ground Paper With Fireproofing Added.

Claims use since Apr. 11, 1947.

Ser. No. 522,231. The Martin Tile Company, Kansas City, Mo. Filed May 12, 1947.

StyleTile

The word "Tile" is disclaimed.

For Tile for Covering Wall and Floor Surfaces.

Claims use since Mar. 12, 1947.

CLASS 19

VEHICLES

Ser. No. 520,730. The Lehon Company, Chicago, Ill. Filed Apr. 15, 1947.

For Automobile Floor Covers and Running Board Covers, Cab Curtains for Locomotive Cabs, Curtains for Inspection Cars Used on Railroads by Track Maintenance Officers, Roofs for Railway Cars, Roofs for Trailers and Trailer Trucks, Sound Deadener Felt for Automobiles—Namely, Cut To Fit and Ready for Application Pieces of Sound Deadener Felt for Use on Floors of Automobiles.

Claims use since September 1908.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 504,298. The Sheffield Corporation, Dayton, Ohio. Filed June 20, 1946.

CRUSHTRUE

For Wheel Dressers—Namely, Wheels and Adjusting Mechanism Therefor Used To Impart Form Contours on Abrasive Wheels.

Claims use since Apr. 19, 1946.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 516,545. Joseph Hollinger & Co., Inc., New York, N. Y. Filed Jan. 29, 1947.

BOND-ID

For Eye Glasses, Eye Glass Frames and Eye Glass Lenses.
Claims use since Oct. 1, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 523,723. Warren Webster & Company, Camden, N. J. Filed July 2, 1947. Under 10-year proviso.

Webster

For Heating Apparatus Comprising Thermostats, Control Switches, Wiring, Steam Control Valves, Steam Piping and Radiators; Unit Heaters.
Claims use since Jan. 1, 1888.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 512,468. Joseph L. West, Columbus, Ohio. Filed Nov. 12, 1946.

SPORTRAIT

For Photographic Prints, Drawings, and Sketches Mounted on Wooden Backings.
Claims use since June 1, 1942.

CLASS 39

CLOTHING

Ser. No. 523,178. Dixie Belle Textiles, Inc., Gibsonville, N. C. Filed May 28, 1947.

Dixie Belle

For Ladies' Lingerie—Namely, Panties, Slips and Half Slips, and Children's Panties.
Claims use since Dec. 14, 1946.

CLASS 47

WINES

Ser. No. 520,444. Cyprus Wine and Spirits Company, Ltd., Limassol, Cyprus. Filed Apr. 10, 1947.

The representation of the grapes and the outline of the label are disclaimed.
For Wines.
Claims use since 1927.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 520,445. Cyprus Wine and Spirits Company, Ltd., Limassol, Cyprus. Filed Apr. 10, 1947.

The representation of the grapes and the outline of the label are disclaimed.
For Brandy, Ouzo, Gin, Rum, and Liqueurs.
Claims use since 1927.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 550,924. Irvington Varnish and Insulator Company, Irvington, N. J. Filed Mar. 1, 1948.

Fura-Tone

For Synthetic Resinous Materials in the Form of Powders, Granules, Liquids, Solutions, Slabs and Other Forms for Use in the Industrial Arts and Further Manufacture.
Claims use since Feb. 12, 1948.

Ser. No. 591,745. Master Pad Corporation, New York, N. Y. Filed Jan. 31, 1950.

"PERMEX"

For Batting and Filler Material.
Claims use since Dec. 15, 1949.

Ser. No. 592,273. Limestone Products Corporation of America, Newton, N. J. Filed Feb. 10, 1950.

MICO-FOS

For Ground or Pulverized Limestone for Animal and Poultry Feed Ingredient.
Claims use since June 28, 1949.

Ser. No. 605,703. King Ranch, Kingsville, Tex. Filed Nov. 8, 1950.

For Livestock—Namely, Horses and Cattle.
Claims use since 1885.

CLASS 2

RECEPTACLES

Ser. No. 540,106. Rathborne, Hair & Ridgway Company, Chicago, Ill., assignor to Rathborne, Hair & Ridgway Box Co., Chicago, Ill., a corporation of Illinois. Filed Nov. 4, 1947. (Sec. 2f.)

SUPERSTRONG

Applicant claims ownership of Registrations Nos. 249,538 and 414,846.
For Wooden and Fibreboard Boxes and Crates, and Trays.
Claims use since December 1934.

Ser. No. 576,256. Paul Flato Sales Corporation, New York, N. Y. Filed Mar. 29, 1949.

"STARDUST"

For Unfilled Containers—Namely, Compacts for Both Loose and Caked Powder, Rouge Boxes, Pill Boxes, Lipstick Cases, and Vanity Cases of Semi-Precious Metals, Leather, Plastic Materials, and Combinations Thereof.
Claims use since June 1, 1948.

Ser. No. 594,917. Ohio Valley Bag and Burlap Co., Louisville, Ky. Filed Mar. 30, 1950. (Sec. 2f.)

The representation of the bag is disclaimed. The words "Bag and Burlap Co." are disclaimed. Applicant claims ownership of Registration No. 415,276.
For Cotton and Burlap Bags.
Claims use since 1938.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 581,711. Alfred Dunhill Limited, London, England. Filed July 9, 1949. (Sec. 2f.)

dunhill

Applicant claims ownership of Registrations Nos. 403,661, 404,218, and 406,638.
For Billfolds, Purses, Handbags, Document Cases, and Wallets, All Being Goods Made of Leather.
Claims use since Dec. 5, 1934.

Ser. No. 582,425. Hawley Products Company, St. Charles, Ill. Filed July 23, 1949.

HAWLITE

For Hand Luggage.
Claims use since May 1949.

Ser. No. 588,908. Boyd-Welsh, Incorporated, St. Louis, Mo. Filed Oct. 27, 1949.

A PEACOCK BAG

No claim is made to the word "Bag." Applicant claims ownership of Registration No. 256,559.
For Handbags.
Claims use since Apr. 17, 1928.

Ser. No. 592,350. Thoro'bred Racing Plate Co., Los Angeles, Calif. Filed Feb. 11, 1950.

THORO'BRED

For Horse Shoes for Racing Horses.
Claims use since Dec. 20, 1949.

Ser. No. 598,158. Columbia Products Corporation, Brooklyn, N. Y. Filed May 26, 1950.

Minit-Girl

The picture of the girl is fanciful.
For Bag or Case Comprising a Mirror, Change Dispenser, and Bill and Card Pocket.
Claims use since January 1945.

Ser. No. 599,322. Fran-Stef Manufacturing Company, New York, N. Y. Filed June 17, 1950.

Lord Francis

The name "Lord Francis" is fanciful. Applicant claims ownership of Registrations Nos. 438,386 and 441,086.
For Billfolds and Wallets.
Claims use since 1935.

Ser. No. 599,323. Fran-Stef Manufacturing Company, New York, N. Y. Filed June 17, 1950.

Lady Frances

Applicant claims ownership of Registrations Nos. 438,386 and 441,086.
For Billfolds and Wallets.
Claims use since August 1949.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 550,924. Irvington Varnish and Insulator Company, Irvington, N. J. Filed Mar. 1, 1948.

Fura-Tone

For Synthetic Resinous Materials in the Form of Powders, Granules, Liquids, Solutions, Slabs, and Other Forms for Use in the Industrial Arts and Further Manufacture.
Claims use since Feb. 12, 1948.

Ser. No. 555,758. Richard Laubly, Westport, Conn. Filed Apr. 28, 1948.

LAN-O-WAX

The word "Wax" is disclaimed.
For Softening Preparation for Leather Treatment Having Incidental Cleansing Properties.
Claims use since Apr. 23, 1948.

Ser. No. 577,724. The Charles Marchand Company, New York, N. Y. Filed Apr. 26, 1949. (Sec. 2f.)

MARCHAND'S

Applicant claims ownership of Registrations Nos. 45,205, 144,604, 342,853, 398,114, 18,273, and 141,348.
For Peroxide of Hydrogen.
Claims use since 1890.

Ser. No. 578,794. Jack H. Hill, doing business as Hills Manufacturing Co., St. Paul, Minn. Filed May 13, 1949.

K-DAIR
AS FRESH AS MOUNTAIN AIR

The expression "As Fresh As Mountain Air" is disclaimed.
For Moth Repellent Preparation.
Claims use since Apr. 2, 1949.

Ser. No. 579,337. The Mead Corporation, Dayton, Ohio. Filed May 23, 1949.

MEADTAN

For Powdered Extract Product Containing Tannin for Use as a Water Treating Material as for Boiler Water and the Like.
Claims use since July 18, 1947.

Ser. No. 579,549. Monsanto Chemical Company, St. Louis, Mo. Filed May 26, 1949.

THALAM

For Compound for Use as an Aid in the Vulcanization of Rubber.
Claims use since Apr. 6, 1949.

Ser. No. 581,542. Wagner Electric Corporation, St. Louis, Mo. Filed July 5, 1949. (Sec. 2f.)

Wagner

For Hydraulic Brake Fluid.
Claims use since 1924.

Ser. No. 583,490. Nopco Chemical Company, Harrison, N. J. Filed Aug. 15, 1949.

NOPCO

For Sulfated Fatty Oils, Sulfated Fatty Acids, Fatty Amides, Fatty Amines, Esters of Fatty Acids, Sulfated Waxes, Sulfated Amides, Sulfonated Alkylated Aromatics, Antistatic Compositions for Textiles, Cationic Fabric Treating Compositions, Chemical Defoamers, Mercerising and Carbonizing Assistants, Plasticizers for Warp Sizing, Coning Oils, Kier Boil Assistants, Wax Emulsifiers, Pigment Dispersing Aids, Rayon Crepe Soaking Oils, Silk Soaking Oils, Textile Scouring Compositions, Textile Sizing Compositions, Yarn and Fiber Lubricants, Scrooping Compounds, Viscose Spin Bath Additives, Flameproofing Compounds, Compositions for Rendering Textiles Water Repellant, Wool and Worsted Lubricants, Dye and Finish Assistants and Penetrants, Fat-Liquoring Oils, Alum Stable Leather Oils, Synthetic Neat's-Foot Oil, Leather Finishing Oils, Paper and Pulp Defoamers, Cationic Tissue Softening Compounds, Emulsified Synthetic Resins, Polyvalent Metal Soap Dispersions, Foam Killers and Sheet Foamation Aids, Free Rosin Sizing Agents, Pitch Control Compositions for Use in the Pulp and Paper Industry, Paper Sizes, Cutting Oil Emulsifiers, Mold Lubricants, Rust Inhibitors, Wire Drawing Compounds, Synthetic Drying Oils, Latex Extenders, Linseed Oil and Ester Gum Extenders, Waterproofing Compositions, Agricultural Oil Spray Emulsifiers, Plasticizers for Rubber, Cellulose Derivatives and Synthetic Resins, Other Wetting, Emulsifying, and Dispersing Agents for General Use in the Industrial Arts.
Claims use since Sept. 1, 1917.

Ser. No. 583,492. George H. Parkwah, doing business as Parkwah Chemical Co., Seattle, Wash. Filed Aug. 15, 1949.

PLASTIC-MIST

The word "Plastic" is disclaimed.
For Textile Water-Proofing Agents.
Claims use since June 1, 1949.

Ser. No. 584,227. Farmers' Butane-Propane Service, Modesto, Calif. Filed Aug. 30, 1949.

Therm-O-Tane

For Liquefied Petroleum Fuel Gas.
Claims use since Jan. 25, 1949.

Ser. No. 584,231. Hysan Products Company, Chicago, Ill. Filed Aug. 30, 1949.

CHLORAFAL

For Liquid Deodorant for Household and Industrial Use.
Claims use since March 1939.

Ser. No. 584,466. Research Products Company, Kansas City, Mo. Filed Sept. 3, 1949.

MAX-KILL

The word "Kill" is disclaimed.
For Insecticides, Particularly Grain Fumigants.
Claims use since Aug. 10, 1949.

Ser. No. 584,662. Zimmerman Associates, Guilford College, N. C. Filed Sept. 7, 1949.

ZAVEL

"PERMANENT SOFTNESS"

The words "Permanent Softness" are disclaimed.
For Textile Chemical Specialty for the Treatment of Textiles to Produce Softness and Stain Resistance.
Claims use since Aug. 1, 1949, as to the mark shown, and since February 1948 as to the mark "Zavel."

Ser. No. 584,714. The Davison Chemical Corporation, Baltimore, Md. Filed Sept. 12, 1949.

DAKEM

For Moth-Proofing Compound.
Claims use since Aug. 5, 1949.

Ser. No. 593,052. Godfrey L. Cabot, Inc., Boston, Mass. Filed Feb. 23, 1950.

DI-OA

For Carbon Black as a Plasticizer.
Claims use since May 2, 1949.

Ser. No. 594,276. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Mar. 20, 1950.

SCOTCHLITE

For Liquid for Activating (Making Tacky) Adhesive Coating on Surface of Sheet Material.
Claims use since Feb. 13, 1950.

Ser. No. 597,932. Benjamin D. Smith, Jr., Sanford, N. C. Filed May 10, 1950.

BLACK PANTHER

For Insecticides in the Form of Spray and Dust.
Claims use since February 1949.

CLASS 7
CORDAGE

Ser. No. 590,062. American Stores Company, Philadelphia, Pa. Filed Dec. 29, 1949.

SPEEDUP

For Clothes Line.
Claims use since Nov. 7, 1949.

Ser. No. 592,966. Clement L. Yancey, Jr., doing business as Greensboro Twine Company, Greensboro, N. C. Filed Feb. 23, 1950.

PILOT

For Cotton Twine.
Claims use since Nov. 15, 1949.

Ser. No. 593,719. Facile Corporation, Paterson, N. J. Filed Mar. 10, 1950.

The word "Hank" and the representation of a ribbon are disclaimed. Applicant claims ownership of Registrations Nos. 409,244 and 410,056.
For Ribbons of Acetate Film and Rayon Yarn Laminated Used for Tying Packages and the Like.
Claims use since Jan. 10, 1950.

Ser. No. 598,182. Hooper Paper & Twine Co., Inc., Philadelphia, Pa. Filed May 26, 1950. (Sec. 2f.)

MERIT BRAND

The words "Paper & Twine Co., Inc., Philadelphia, Pennsylvania" and "Brand" are disclaimed. Applicant claims ownership of Registration No. 271,294.
For Twines, Cords, Ropes, and Tape Suitable for Tying Purposes.
Claims use since Jan. 4, 1929.

Ser. No. 602,164. Rocky Mount Cord Company, Rocky Mount, N. C. Filed Aug. 14, 1950.

ROMOCO

For Cord and Rope.
Claims use since Jan. 1, 1943.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 536,323. Weber Showcase & Fixture Co., Inc., Los Angeles, Calif. Filed Sept. 30, 1947.

Slideflex

For Doors for Cabinets and Closures Defined by Walls and of the Sliding Type as Distinguished From Hinge-Supported Doors.
Claims use since Apr. 25, 1947.

Ser. No. 541,141. Edward Hines Lumber Co., Chicago, Ill. Filed Nov. 14, 1947. (Sec. 2f.)

PRECISION

For Yellow Pine, Douglas Fir, and Western Hemlock Lumber.
Claims use since June 1936.

Ser. No. 557,659. Gustav J. Bostrom, doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Filed May 22, 1948.

WESTGRATE

The representation of the goods is disclaimed. Applicant claims ownership of Registration No. 277,408.
For Open-Type Flooring Made of Metal Such as Steel Grating and Treads.
Claims use since June 5, 1944.

Ser. No. 562,627. Gustav J. Bostrom, doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Filed Aug. 2, 1948.

WESTGRATE

Applicant claims ownership of Registration No. 277,408.
For Open-Type Flooring Made of Metal.
Claims use since 1923.

Ser. No. 563,915. Douglas Fir Plywood Association, Tacoma, Wash. Filed Aug. 24, 1948. (COLLECTIVE MARK.)

PLYBASE

Applicant claims ownership of Registration No. 394,128.
For Fir Plywood.
Claims use since Aug. 2, 1948.

Ser. No. 565,712. McKee Door Company, Aurora, Ill. Filed Sept. 23, 1948. (Sec. 2f.)

McKee

For Overhead Type Track Mounted Door Assemblies (Units).
Claims use since 1929.

Ser. No. 570,282. The Techkote Company, Inglewood, Calif. Filed Dec. 9, 1948.

DURAIR

For Air-Entraining Chemical Agent for Mixing With Concrete.
Claims use since Oct. 22, 1948.

Ser. No. 571,501. Binswanger & Co., Richmond, Va. Filed Jan. 3, 1949.

For Windows, Sashes, Transoms, Outside Window Shutters, Panel Doors, Sash Doors, Front Doors, French Doors, Store Doors, Garage Doors, Screen Doors, Combination Storm and Screen Doors, and Disappearing Stairways.
Claims use since Jan. 1, 1948.

Ser. No. 573,077. Copco Steel & Engineering Company, Detroit, Mich. Filed Jan. 31, 1949.

SIMPLITE

For Steel Windows.
Claims use since June 30, 1947.

Ser. No. 578,613. Architectural Porcelain Constructors, Oakland, Calif. Filed Apr. 5, 1949.

APCO

For Porcelain Coated Metal Panels and Veneer for Building Surfaces.
Claims use since January 1945.

Ser. No. 580,035. St. Paul & Tacoma Lumber Co., Tacoma, Wash. Filed June 6, 1949.

PLYGLAZE

For Laminated Composite Boards, Plywood, and Wallboard.
Claims use since May 1948.

Ser. No. 580,458. Walter K. P. Baumann & Co., New York, N. Y. Filed June 15, 1949.

TORCRETE

Applicant claims ownership of Registration No. 242,345.
For Asphalt Mastic Composition for Flooring and Surfacing.
Claims use since Nov. 30, 1927.

Ser. No. 582,605. Hunter Douglas Corporation, New York, N. Y. Filed July 28, 1949.

Flexalum

Applicant claims ownership of Registrations Nos. 427,704 and 522,365.
For Window Awnings Fabricated of Sheet Metal.
Claims use since July 6, 1949.

Ser. No. 583,678. Chapman Manufacturing Co., Corvallis, Oreg. Filed Aug. 19, 1949.

CHAPCO

For Pressed Wood Fiber Board, and Doors Formed From Like Material.
Claims use since January 1947.

CLASS 18
MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 564,083. C. A. Mosso Company, Chicago, Ill. Filed June 28, 1948.

MULT-APLY

Applicant claims ownership of Registration No. 322,176.
For Antiseptics, Bactericides, and Germicides.
Claims use since Jan. 2, 1934.

Ser. No. 573,534. R. G. Dunwody & Sons, Inc., Atlanta, Ga. Filed Feb. 9, 1949.

CETOSAL

For Analgesic Antipyretic.
Claims use since November 1931.

Ser. No. 577,641. Allied Laboratories, Inc., also doing business as Pitman-Moore Co., Indianapolis, Ind. Filed Apr. 25, 1949.

NEOCHOLAN

For Hydrocholeretic, Antispasmodic Preparation.
Claims use since July 2, 1948.

Ser. No. 580,363. Gynecological Specialties, St. Louis, Mo., assignor to Gynecological Specialties, Inc., Alton, Ill., a corporation of Illinois. Filed June 13, 1949.

LAUTRIC

For Trichomonas Vaginalis and Vaginitis.
Claims use since May 1944.

Ser. No. 581,471. Cutter Laboratories, Berkeley, Calif. Filed July 2, 1949.

Alhydrox

Applicant claims ownership of Registrations Nos. 439,299, 515,195, and 516,948.
For the Following Human and Veterinary Biologics: Clostridium Hemolyticum Bacterin, Clostridium Novyi Bacterin, Mixed Bacterin (Bovine), Mixed Bacterin (Ovine), Diphtheria Toxoid, Diphtheria and Tetanus Toxoids, Tetanus Toxoid, Pasteurella-Salmonella Cholerasius Bacterin (Porcine), Pertussis Vaccine, Streptococcus Bacterin (Equine).
Claims use since 1928.

Ser. No. 583,298. Dr. Fritz Silten, doing business as Silbe H. O., Amsterdam, Holland. Filed Aug. 10, 1949.

LEUCOTROPIN

Applicant claims ownership of Netherlands Registration No. 93,170 dated July 13, 1948.
For Medicinal Preparation for Intravenous Therapy of Acute Inflammatory Processes.

Ser. No. 587,514. Vascular Pharmaceutical Company, Inc., Roslyn Heights, N. Y. Filed Nov. 8, 1949.

LIPOTROPIN

For Ethically Sold Preparation for the Treatment of Arteriosclerosis.
Claims use since June 22, 1949.

Ser. No. 588,695. Kenneth G. Mace, doing business under the name and style of Mace Laboratories, Neenah, Wis. Filed Dec. 2, 1949.

HEM-MAC

For Preparation for the Treatment of Coughs.
Claims use since Mar. 1, 1949.

Ser. No. 590,178. The New England Industries, Inc., New York, N. Y. Filed Dec. 30, 1949.

histalgan

For Medicinal Preparation Used for Treatment of a Cold.
Claims use since Dec. 1, 1949.

Ser. No. 592,532. Frank P. Wood, doing business as Wood Chemical Company, Jacksonville, Fla. Filed Feb. 15, 1950.

WOOD'S HISTO

The word "Wood's" is disclaimed.
For Preparation for the Relief of Colds.
Claims use since Jan. 11, 1950.

Ser. No. 594,650. The Dr. J. H. McLean Medicine Co., St. Louis, Mo. Filed Mar. 25, 1950.

MIHISTINO

For Tablets for Symptomatic Relief of Colds and Hay Fever.
Claims use since Feb. 1, 1950.

Ser. No. 594,662. A. F. Russell & Co., Inc., Tuckahoe, N. Y. Filed Mar. 25, 1950.

TINCTURE HEXAPHEN

The word "Tincture" is disclaimed.
For Pharmaceutical Preparation for the Prevention and Treatment of Fungous Infections of the Skin, Especially Dermatomycosis ("athlete's foot").
Claims use since Nov. 21, 1949.

Ser. No. 594,820. Dr. A. Wander, S. A., Berne, Switzerland. Filed Mar. 28, 1950.

Tebacyl

Applicant claims ownership of Swiss Registration No. 131,612, dated Nov. 29, 1949.
For Medicinal Preparation in Tablet Form to be Taken Orally for the Treatment of Tuberculosis.

Ser. No. 594,840. Ives-Cameron Company, Inc., New York, N. Y. Filed Mar. 29, 1950.

MINIHIST

For Antihistamine Compound in Dosage Form.
Claims use since Mar. 8, 1950.

Ser. No. 594,861. Caroline V. Spencer, doing business under the name Spencer Laboratories, Shelby, Mont. Filed Mar. 29, 1950.

"Salvakold"

For Medicinal Preparation for Coughs, Colds, Grippe, Asthma, Laryngitis, Sore Throat, and Lung Congestions.
Claims use since June 1, 1928.

Ser. No. 595,011. Steel Pharmaceutical Co. Inc., New York, N. Y. Filed Mar. 31, 1950.

COMBISED

For Sedative Tablets Containing a Combination of Pentobarbital and Di-Allyl Barbituric acid.
Claims use since March 1949.

CLASS 19
VEHICLES

Ser. No. 533,666. Consolidated Vultee Aircraft Corporation, San Diego, Calif., assignor to Piper Aircraft Corporation, Lock Haven, Pa., a corporation of Pennsylvania. Filed Sept. 6, 1947.

Flying Station Wagon

The word "Flying" is disclaimed.
For Airplanes.
Claims use since Nov. 9, 1946.

Ser. No. 569,164. Lyon, Incorporated, Detroit, Mich. Filed Nov. 20, 1948.

For Wheel Covers.
Claims use since May 11, 1948.

Ser. No. 590,386. Piper Aircraft Corporation, Lock Haven, Pa. Filed Jan. 5, 1950.

Pacer

For Airplane Parts—Namely, Structural and Body Parts.
Claims use since Nov. 4, 1949.

Ser. No. 590,920. Walburn Equipment Company, Cleveland, Ohio. Filed Jan. 14, 1950.

SPOTSY

For Prismatic Refractors for Attachment to Windshields of Automotive Vehicles to Bring Traffic Lights Within the Drivers' Line of Vision.
Claims use since Dec. 28, 1948.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 551,482. Silk-O-Lite Mfg. Corp., New York, N. Y. Filed Mar. 8, 1948. (Sec. 2f.)

Silk-O-Lite

Applicant disclaims the word "Silk." Applicant claims ownership of Registration No. 428,962.
For Fabric Lampshades for Electric Lamps.
Claims use since 1926.

Ser. No. 558,643. Feedrail Corporation, New York, N. Y. Filed June 7, 1948.

FEEDRAIL

For Assemblies for Electric Power Transmission—Namely, Trolley Busways and Trolleys, Bus Bars With Insulation and Housing Therefor, and Parts of Said Assemblies; and Accessories for Said Assemblies—Namely, Coupling Plates, End Caps, End Feed Sets, Current Connection Boxes, Hanger Straps and Supports, Fuse Blocks.
Claims use since June 27, 1935.

Ser. No. 577,826. United Conveyor Corporation, Chicago, Ill. Filed Apr. 27, 1949.

NUVATROL

For Electrically Operated Control Including a Switch for Making and Breaking Contacts in Sequence for Automatically Operating an Ash Conveyor or the Like.
Claims use since Apr. 4, 1949.

Ser. No. 580,286. Carter Parts Company, Chicago, Ill. Filed June 11, 1949.

"IMP"

Applicant claims ownership of Registration No. 211,862.
For Conductor Jacks.
Claims use since Apr. 12, 1922.

Ser. No. 580,716. Califone Corporation, Los Angeles, Calif. Filed June 18, 1949.

Califone

For Electrical Apparatus—Namely, Phonographs and Transcription Players.
Claims use since Jan. 16, 1947.

Ser. No. 581,067. International Business Machines Corporation, New York, N. Y. Filed June 25, 1949.

IBM

For Electrical and Electronic Apparatus—Namely, Annunicator Systems, Particularly for the Calling of Hospital Nurses by Patients; Personnel Registration and Call Systems; Switches; Push-Buttons, Annunicators; Inter-Office Telephonic Communication Apparatus Including Speakers, Amplifiers and Inter-Connecting Circuits Therefor; Fire Alarm Systems; Program Signalling Systems for the Sequential Sounding of Bells, Buzzers, Whistles, Horns, Signal Lights, and the Operation of Other Apparatus at Timed Intervals; Electrical Control and Distribution Panels; Private Exchange Telephone Systems; Centralized Sound Systems for the Broadcasting of Music, Radio Programs, and Speech for Use in Schools, Office Buildings, Factories, and Places of Assembly; Motor Generators.
Claims use since December 1946.

Ser. No. 582,414. Chester Cable Corp., Chester, N. Y. Filed July 23, 1949. (Sec. 2f.)

Plasticote

Applicant claims ownership of Registration No. 408,958.
For Electric Insulated Wire.
Claims use since February 1942.

Ser. No. 588,643. Graybar Electric Company, Inc., New York, N. Y. Filed Dec. 1, 1949.

'AMAZON'

For Electrical Friction Tape and Insulating Rubber Tape.
Claims use since October 1907.

Ser. No. 589,086. Grace Electronics Inc., New York, N. Y. Filed Dec. 9, 1949.

Tape-Riter

The word "Tape" is disclaimed.
For Magnetic Sound Recorders.
Claims use since June 3, 1949.

Ser. No. 592,578. Porta-Cue Corporation, New York, N. Y. Filed Feb. 16, 1950.

PORTA-CUE

For Electric Portable Barbecue Grills for Poultry, Meats.
Claims use since June 1949.

Ser. No. 593,041. National Pressure Cooker Company, Eau Claire, Wis. Filed Jan. 12, 1950.

Vapo-Miser

For Combination Super-Heater and Water Trap for Electrically Heated Hand Pressing Irons.
Claims use since Sept. 2, 1949.

Ser. No. 594,699. Thomas A. Edison, Incorporated, West Orange, N. J. Filed Mar. 27, 1950.

Carbonaire

For Primary Batteries.
Claims use since Feb. 6, 1950.

Ser. No. 595,016. Tela-Tena Company, Evanston, Ill. Filed Mar. 31, 1950.

TELA-TENA

For Television Receiver Antennas.
Claims use since Mar. 29, 1950.

Ser. No. 595,421. Skinner & Pelton, Inc., Chicago, Ill. Filed Apr. 7, 1950.

SILAVOX

For Earphone and Volume Control Attachments for Television Receivers.
Claims use since Mar. 16, 1950.

Ser. No. 595,607. P. R. Mallory & Co., Inc., Indianapolis, Ind. Filed Apr. 12, 1950.

PLASCAP

For Electric Capacitors.
Claims use since Mar. 10, 1950.

Ser. No. 595,690. Sunbeam Corporation, Chicago, Ill. Filed Apr. 13, 1950.

Sunbeam

Applicant claims ownership of Registrations Nos. 263,398 and 318,056.
For Portable Electric Radiant Heaters for General Use.
Claims use since Dec. 1, 1928.

Ser. No. 596,940. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa. Filed May 5, 1950.

CADET

Applicant claims ownership of Registration No. 265,054.
For Storage Batteries, Dry Cell Batteries, Automobile Electric Bulb Kits, and Electric Automobile Bulbs.
Claims use since Jan. 1, 1929.

Ser. No. 597,496. The Whitney Blake Company, Hamden, Conn. Filed May 16, 1950.

TELEFRAME

For Insulated Electric Wire.
Claims use since Mar. 31, 1950.

Ser. No. 597,553. The Superior Electric Company, Bristol, Conn. Filed May 16, 1950.

Stabiline

For Voltage Regulators.
Claims use since July 3, 1947.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 514,798. The Brunswick-Balke-Collender Company, Chicago, Ill. Original filed, act of 1905, Dec. 26, 1946; amended to application under act of 1946, Principal Register, Jan. 26, 1948. (Sec. 2f.)

Brunswick

Applicant claims ownership of Registrations Nos. 286,207, 152,127, and 313,282.
For Machine for Reconditioning Bowling Pins.
Claims use since June 24, 1946.

Ser. No. 523,846. Lima-Hamilton Corporation, Lima, Ohio, by change of name from Lima Locomotive Works, Incorporated. Original filed, act of 1905, June 9, 1947; amended to application under act of 1946, Principal Register, May 18, 1950. (Sec. 2f.)

LIMA

Applicant claims ownership of Registration No. 277,321.
For Material and Load Moving and Handling Equipment, for Digging, Excavating, Dragging, Dredging and Lifting—Namely, Power Shovels, Cranes, Draglines and Pull Shovels; and Various Parts of the Foregoing.
Claims use since Nov. 25, 1916.

Ser. No. 539,904. Rotary Lift Company, Memphis, Tenn. Filed Nov. 1, 1947. (Sec. 2f.)

Rotary Lift

The word "Lift" is disclaimed. Applicant claims ownership of Registration No. 263,646.
For Automobile, Bus, and Truck Servicing Lifts and Parts Thereof.
Claims use since Jan. 1, 1926.

Ser. No. 541,407. Cotta Transmission Corporation, Rockford, Ill. Filed Nov. 17, 1947. (Sec. 2f.)

COTTA

For Change-Speed Transmissions.
Claims use since January 1919.

Ser. No. 544,705. The Clayton Manufacturing Company, Bristol, Conn. Filed Dec. 18, 1947. (Sec. 2f.)

FERRI-STEEL

The word "Steel" is disclaimed.
For Scissors and Shears of General Household Utility.
Claims use since Jan. 11, 1921.

Ser. No. 552,345. Blaw-Knox Company, Pittsburgh, Pa. Filed Dec. 16, 1947. (Sec. 2f.)

BLAW-KNOX

Applicant claims ownership of Registration No. 143,912.
For Clamshell Buckets; Dolomite Machines; Truck Mixers and Agitators for Concrete; Gas Cleaners, Gas-Liquid Contractors, and Gas-Liquid Separators for the Treatment of Natural and Manufactured Fuel Gases; Road Finishers; Concrete Buckets; Evaporators and Autoclaves Equipped With Mechanical Agitators for the Production of Chemical Products; Digesters, De-vulcanizers, and Storage Tanks for the Production of Chemical Products; Extractors, Agitators, and Crystallizers; Pressure Vessels Equipped With Mechanical Agitators; Mixing Kettles Equipped With Mechanical Agitators; Blenders for Divided Solids; Concrete Spreaders; Resin Kettles Equipped With Mechanical Agitators; Revolving-Drum Type Flakers; Road Sub-graders.
Claims use since August 1917.

Ser. No. 557,454. E. H. Jacobs Manufacturing Co., Inc., Danielson, Conn., assignor to The Bullard Clark Company, Danielson, Conn., a corporation of Connecticut. Filed May 20, 1948. (Sec. 2f.)

CASTEEL

Applicant claims ownership of Registration No. 387,430.
For Textile Machinery—Namely, Dobby and Harness Cords.
Claims use since Oct. 1, 1938.

Ser. No. 564,058. Wm. B. Berry Co., Boston, Mass. Filed June 8, 1948.

HEATMASTER

For Popcorn Dispensing Cabinet or Apparatus Combined Therewith Being a Display and Warming Compartment.
Claims use since Aug. 15, 1946.

Ser. No. 568,102. Eversharp, Inc., Chicago, Ill. Filed Nov. 3, 1948.

Twin-jector

The word "Twin" is disclaimed. Applicant claims ownership of Registration No. 384,722.
For Safety Razor Kits.
Claims use since Oct. 7, 1948.

Ser. No. 573,118. Colonial Knife Company, Inc., Providence, R. I. Filed Feb. 1, 1949.

SNAPPY

For Pocket Knives.
Claims use since Dec. 21, 1948.

Ser. No. 581,637. American Steel Foundries, Chicago, Ill. Filed July 8, 1949.

KING

For Metal Working Machine Tools—Namely, Boring and Turning Machines, and Parts Thereof.
Claims use since Sept. 13, 1901.

Ser. No. 582,852. Paper and Industrial Appliances, Inc., New York, N. Y. Filed Aug. 2, 1949.

CHEMI-PULPER

The term "Pulper" is disclaimed.
For Digesters for Lignocellulosic Material.
Claims use since Feb. 20, 1941.

Ser. No. 591,740. Jose Domingo Lavin, Mexico City, Mexico. Filed Jan. 31, 1950.

SIMPLEX

Applicant claims ownership of Mexican Registration No. 57,625, dated Aug. 3, 1948.
For Carburators for Automobiles.

Ser. No. 593,610. Otho M. Otte, Tarentum, Pa. Filed Mar. 8, 1950.

"Darling O'Dreams"

For Metal Tableware for Infants, Particularly Eating Utensil Sets Comprising a Knife, Fork, and Spoon.
Claims use since November 1948.

Ser. No. 601,162. National Silver Company, New York, N. Y. Filed July 24, 1950.

KNIGHT

For Stainless Steel Table Cutlery—Namely, Knives, Forks, and Spoons.
Claims use since May 29, 1950.

CLASS 24
LAUNDRY APPLIANCES AND MACHINES

Ser. No. 589,077. Davis Specialties Incorporated, Chicago, Ill. Filed Dec. 9, 1949.

VANNEY A. RAY

The mark consists of the name of a living individual whose consent is filed as a part of the record.
For Press Plates and Pads for Pressing Clothes.
Claims use since 1932.

Ser. No. 600,205. Worldsbest Industries, Inc., Cudahy, Wis. Filed July 3, 1950.

For Curtain Stretchers.
Claims use since June 26, 1950.

Ser. No. 600,358. Temco, Inc., Nashville, Tenn. Filed July 7, 1950.

TEMCO

Applicant claims ownership of Registration No. 381,703.
For Clothes Dryer.
Claims use since June 23, 1950.

Ser. No. 600,359. Temco, Inc., Nashville, Tenn. Filed July 7, 1950.

SUN

TEMCO

DIAL

For Clothes Dryer.
Claims use since June 23, 1950.

CLASS 25
LOCKS AND SAFES

Ser. No. 555,201. Schlage Lock Company, San Francisco, Calif. Filed Apr. 21, 1948. (Sec. 2f.)

SCHLAGE

Applicant claims ownership of Registration No. 205,373.
For Lock Sets Particularly Door Locks, Cabinet Locks, and Building Locks for Entrance and Interior Doors.
Claims use since Jan. 1, 1924.

CLASS 26
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 550,855. The Tappan Stove Company, Mansfield, Ohio. Filed Feb. 28, 1948. (Sec. 2f.)

TEL·U·SET

For Control Panels for Cooking Ranges Which Comprise Automatic Control Mechanism Operative to Turn the Oven On and Off at Predetermined Times, Signalling Means Which Tell When the Cooking Is Done, and a Cooking Chart Which Gives the Time and Temperature for Cooking Different Food.
Claims use since Jan. 1, 1941.

Ser. No. 582,459. Kooperativa Förbundet, Föreaing U. P. A., Stockholm, Sweden. Filed July 22, 1949.

hugin

Applicant claims ownership of Swedish Registration No. 51,110, dated Dec. 12, 1938.
For Cash Registers, Calculating Machines, Coin Exchanging Apparatus and Machines, and Scales.

Ser. No. 583,074. Barber-Colman Company, Rockford, Ill. Filed Aug. 6, 1949. (Sec. 2f.)

BARBER COLMAN

For Electric Switches Automatically Responsive to Condition Changes Including Temperature, Moisture Content, Pressure, Etc.
Claims use since 1933.

Ser. No. 587,472. Foster Engineering Co., Inc., Chicago, Ill., now by change of name Metrotype Corporation, a corporation of Illinois. Filed Nov. 8, 1949.

Metrotype Systems

For Automatic Printing and Totalizing Metering Apparatus Used for Determining and Recording Characteristics of a Plurality of Electrical Circuits, Such as Current, Voltage, Power, Pulse Frequency, and/or Quantity, Integrated Changes in Voltage or Current, and the Like.
Claims use since Sept. 23, 1949.

Ser. No. 588,734. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Dec. 3, 1949.

For Telescopic Sights for Rifles.
Claims use since Sept. 12, 1949.

Ser. No. 591,844. Ercona Camera Corporation, New York, N. Y. Filed Feb. 2, 1950.

Reflekta

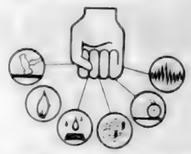
Applicant claims ownership of Registration No. 355,883.
For Cameras.
Claims use since Nov. 30, 1949.

Ser. No. 594,477. Kono Manufacturing Company, Woodside and New York, N. Y. Filed Mar. 23, 1950.

Canasta-Spec

The word "Spec" is disclaimed.
For Spectacle Frames.
Claims use since Feb. 15, 1950.

Ser. No. 595,045. American Brake Shoe Company, New York, N. Y. Filed Apr. 1, 1950.



For Apparatus for Comparing the Speeds of Wheels, Shafts, and Other Rotating Members and for Bringing the Same Into Timed Relation.
Claims use since Jan. 20, 1950.

Ser. No. 597,709. Stereocrafters, Inc., Milwaukee, Wis. Filed May 18, 1950.

Videon

For Cameras.
Claims use since Mar. 26, 1950.

Ser. No. 599,280. Terrytoons, Inc., New Rochelle, N. Y. Filed June 16, 1950.

For Series of Motion Picture Animated Cartoons.
Claims use since June 5, 1950.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 586,093. Lewitt Bros. & Co., Inc., New York, N. Y. Filed Oct. 11, 1949.

The trade-mark consists of a horizontal outline bar having oppositely curved arrowheads at each end. Each arrowhead has a diamond-shaped inner panel. The panel on the left contains the letter "L" and the panel on the right contains the letters "CO."
For Watchcases.
Claims use since Jan. 10, 1922.

Ser. No. 588,167. Dinson Clock Corp., Jamaica, N. Y. Filed Nov. 22, 1949.

DINCO

For Clocks.
Claims use since October 1949.

Ser. No. 588,168. Dinson Clock Corp., Jamaica, N. Y. Filed Nov. 22, 1949.

DITONE

For Clocks.
Claims use since October 1949.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 588,330. Max H. Storch, New York, N. Y. Filed Nov. 25, 1949.

Chase
SWEETHEART

No claim is made to the word "Chase."
For Silverplated and Sterling Silver Knives, Forks, Spoons, and Other Tableware.
Claims use since Oct. 8, 1949.

Ser. No. 588,790. Walter B. Dorrer, doing business under the fictitious name and style of Higbee & Dorrer, Los Angeles, Calif. Filed Dec. 5, 1949.

HD

For Finger Rings.
Claims use since January 1921.

Ser. No. 591,859. Novelty Jewelry Co., New York, N. Y. Filed Feb. 2, 1950.

Snap-Ettes

The word "Snap" is disclaimed.
For Clutch Pins—Namely, Ornamental Pins Comprising an Ornamented Portion Having a Prong for Penetrating the Fabric and a Clutch Portion for Engaging the Prong.
Claims use since Nov. 20, 1949.

Ser. No. 593,637. The Gruen Watch Company, Cincinnati, Ohio. Filed Feb. 17, 1950. (Sec. 2f.)

VERI-THIN

Applicant claims ownership of Registration No. 373,778.
For Bracelets.
Claims use since Oct. 20, 1938.

Ser. No. 594,193. Briggs, Bates & Bacon Company, Attleboro, Mass. Filed Mar. 18, 1950.

CARMELITA

For Expansion Bracelets, Ornamental Pins, Pendants, Earrings, and Watch Bracelets, Not Including Watches.
Claims use since Feb. 16, 1950.

Ser. No. 595,259. The International Silver Company, Meriden, Conn. Filed Apr. 5, 1950.

Blossom Time

For Sterling Silver Table Ware.
Claims use since Feb. 17, 1950.

Ser. No. 595,478. Taunton Pearl Works, Taunton, Mass. Filed Apr. 8, 1950.

Crafters

For Cuff Links, Tie Clips Plated With Precious Metal.
Claims use since Jan. 16, 1950.

Ser. No. 595,479. Taunton Pearl Works, Taunton, Mass. Filed Apr. 8, 1950.

Town & Country

For Cuff Links, Cuff Buttons and Shirt Studs, the Foregoing Items Being Plated With Precious Metal, Tie Holders, Collar Holders, and Scarf Pins.
Claims use since Mar. 29, 1950.

Ser. No. 595,513. R. R. Watch Crystal Corp., New York, N. Y. Filed Apr. 10, 1950.

LUXURIA

For Wrist Watch Straps.
Claims use since Mar. 6, 1950.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 588,800. Haviland & Co., Incorporated, New York, N. Y., by change of name from Theodore Haviland & Co. Inc. Filed Dec. 5, 1949. (Sec. 2f.)

Haviland
France

Applicant claims ownership of Registrations Nos. 221,148 and 277,592.

For Porcelain, China, and Vitrified Dinnerware.
Claims use since 1892.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 560,026. Kerotest Manufacturing Company, Pittsburgh, Pa. Filed June 23, 1948.

KEROTEST

Applicant claims ownership of Registrations Nos. 159,477 and 218,547.

For Refrigeration Accessories—Namely, Fittings With Inspection Windows Mounted Therein, Fittings With Strainers Mounted Therein, Fittings With Filters Mounted Therein, Fittings With Absorbent Drying Material Mounted Therein, Service Kits With Repair Parts for Hermetically Sealed Refrigerating Units, Refrigerant Charging Stands (Each Including a Cylinder and Sight Feed Gauge Glass With Valves and Fittings for Charging Determinable Amounts of Refrigerant), Valves for Refrigerant Compressor Outlets, and Valves With Nozzles for Vaporizing Refrigerant.
Claims use since March 1932.

Ser. No. 596,439. Planco Mfg. Co., Inc., Wichita, Kans. Filed Apr. 27, 1950.

PLANCO

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 533,452. The Land-O-Nod Company, Minneapolis, Minn. Filed July 16, 1947.

LAND-O-CHARM

For Mattresses.
Claims use since Aug. 1, 1942.

Ser. No. 579,992. Nod-A-Way, Inc., San Antonio, Tex. Filed June 4, 1949.

Nites-D-Lite

For Mattresses.
Claims use since Nov. 23, 1948.

Ser. No. 590,966. David Abelson, doing business as Abelson Bedding Co., Brooklyn, N. Y. Filed Jan. 17, 1950.

Sani-Sterilex

For Mattresses and Studio Couches.
Claims use since Dec. 15, 1949.

Ser. No. 591,860. The Ohio Mattress Company, Cleveland, Ohio. Filed Feb. 2, 1950.

Rubberest

For Mattresses.
Claims use since Dec. 1, 1949.

Ser. No. 593,087. Shirley Corporation, Indianapolis, Ind. Filed Feb. 25, 1950. (Sec. 2f.)

SHIRLEY

Ser. No. 594,343. The Vincent-McCall Company, Kenosha, Wis. Filed Mar. 21, 1950.

Dun-Achin'

For Mattresses.
Claims use since Jan. 9, 1950.

Ser. No. 594,566. Namor Products, Inc., Cleveland, Ohio. Filed Mar. 24, 1950.

SELF-MATIC

For Extension Tables.
Claims use since Feb. 18, 1950.

CLASS 33

GLASSWARE

Ser. No. 590,167. Lith-O-Ware Products, Inc., Chicago, Ill. Filed Dec. 30, 1949.

T-V

For Hostess Tray Sets Consisting of Drinking Glasses or Tumblers Made of Glass, and a Tray Made of Steel, the Combination Being Sold as a Set.
Claims use since Dec. 19, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 538,479. John E. Welks, doing business as Wix Cooler Company, Seattle, Wash. Filed Oct. 20, 1947.

wixkuler

For Marine Engine Coolers or Heat Exchange Units Used in Water Cooling Systems of Internal Combustion

Ser. No. 562,865. Macbeth Engineering Corporation, Harrisburg, Pa. Filed Aug. 5, 1948.

MEC

For Continuous and Automatic Deep Fat Food Fryers and Pretzel Cookers, and Attachments Therefor.
Claims use since Nov. 20, 1947.

Ser. No. 575,107. William Adams Limited, Birmingham, England. Filed Mar. 5, 1949.

W A

For Candlesticks, Candelabras, and Candle Snuffers.
Claims use since Dec. 1, 1899, in Great Britain; and first used in commerce between foreign nations and the United States which may lawfully be regulated by Congress on Dec. 1, 1899.

Ser. No. 579,958. Eureka Williams Corporation, Bloomington, Ill. Filed June 3, 1949.

Fifty-Ten

For Oil Burners.
Claims use since first part of April 1949.

Ser. No. 591,509. Orbon Stove Co., Belleville, Ill. Filed Jan. 26, 1950. (Sec. 2f.)

HEATMORE

For Hot Air Furnaces and Heating Stoves.
Claims use since Mar. 1, 1921.

Ser. No. 592,389. Wilbert F. Schaefer, doing business as Schaefer Brass & Mfg. Co., St. Louis, Mo. Filed Feb. 13, 1950. (Sec. 2f.)

S

Ser. No. 592,912. Keystone Manufacturing Company, Schuylkill Haven, Pa. Filed Feb. 23, 1950.

KEYSTOKER

For Anthracite Stokers, Anthracite Stoker-Boiler Units, and Parts Thereof.
Claims use since Feb. 15, 1950.

Ser. No. 594,437. Hardwick Stove Company, Incorporated, Cleveland, Tenn. Filed Mar. 29, 1950. (Sec. 2f.)

HARDWICK

For Gas Stoves and Ranges.
Claims use since 1879.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 593,622. Christian A. Volf, Beverly Hills, Calif. Filed Mar. 8, 1950.

VIBRA-SONIC

The word "Sonic" is disclaimed.
For Phonograph Records Having Recorded Thereon Synthetic Sounds for the Treatment of the Hard of Hearing, for Hearing Rehabilitation and for the Treatment of Those Affected With Sinusitis.
Claims use since August 1948.

CLASS 37

PAPER AND STATIONERY

Ser. No. 546,017. National Blank Book Company, Holyoke, Mass. Filed Jan. 2, 1948. (Sec. 2f.)

YORK

For Loose Leaf Binders.
Claims use since 1916.

Ser. No. 592,703. Erving Paper Mills, Erving, Mass. Filed Feb. 18, 1950.

SHERATON

For Paper Napkins, Toilet Paper and Paper Towels.
Claims use since Dec. 1, 1949.

Ser. No. 592,831. Old Colony Envelope Company, Westfield, Mass. Filed Feb. 21, 1950.

For Writing Paper and Envelopes and Wrapping Paper.
Claims use since Feb. 15, 1950.

Ser. No. 593,200. Leonard G. Yoder, doing business under the name and style of Yoder Instruments, East Palestine, Ohio. Filed Feb. 28, 1950.

MULTI-VIDER

Applicant claims ownership of Registration No. 254,881.
For Pencils.
Claims use since Nov. 2, 1928.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 539,649. Edward H. Butler, doing business as Buffalo Evening News, Buffalo, N. Y. Filed Oct. 31, 1947.

Uncle Ben

For Newspaper Columns or Sections.
Claims use since Sept. 10, 1932.

Ser. No. 543,940. James H. Langtry, doing business under the name and title Langtry Photo Service, Buffalo, N. Y. Filed Dec. 10, 1947.

For Photo Prints Sold as Such.
Claims use since March 1930.

Ser. No. 543,941. James H. Langtry, doing business as Langtry Photo Service, Buffalo, N. Y. Filed Dec. 10, 1947.

TROPHY PRINTS

No claim is made to the word "Prints."
For Photo Prints Sold as Such.
Claims use since July 1937.

Ser. No. 545,965. Doane Agricultural Service, Inc., St. Louis, Mo. Filed Jan. 2, 1948.

All wording shown on the drawing is disclaimed. Applicant claims ownership of Registration No. 507,103.
For Drawings for Constructing Agricultural Buildings.
Claims use since Oct. 20, 1947.

Ser. No. 548,572. Smith H. Cady, Jr., San Jose, Calif. Filed Feb. 2, 1948.

WESTERN
CANDY REVIEW

The words "Candy Review" are disclaimed.
For Confectionary Trade Publication Published Periodically.
Claims use since Jan. 23, 1948.

Ser. No. 560,338. Los Angeles Junior Chamber of Commerce, Los Angeles, Calif. Filed June 28, 1948. (Sec. 2f.)

Los Angeles
Open
GOLF TOURNAMENT

For Program in the Form of a Magazine Published Annually.
Claims use since January 1926.

Ser. No. 577,635. Miller Freeman Publications of California, San Francisco, Calif. Filed Mar. 26, 1949.

the
LOG

Applicant claims ownership of Registration No. 304,892.
For Monthly Publication.
Claims use since April 1923.

Ser. No. 577,705. C & H Supply Company, Seattle, Wash. Filed Apr. 26, 1949.

METAL - CAL

The exclusive right to the use of the term "Metal" apart from the composite mark shown in the drawing is disclaimed.
For Metal Character-Bearing Labels.
Claims use since July 20, 1948.

Ser. No. 578,314. Bliss Display Corp., New York, N. Y. Filed May 6, 1949.

JOLLY JINGLE

For Prepared Advertising Plans, Material, and Layouts Sold and Distributed as Such.
Claims use since Apr. 19, 1949.

Ser. No. 582,811. American Chemical Society, Washington, D. C. Filed Aug. 2, 1949. (Sec. 2f.)

ANALYTICAL
CHEMISTRY

For Periodical.
Claims use since Jan. 1, 1947.

Ser. No. 582,812. Armstrong Cork Company, Lancaster, Pa. Filed Aug. 2, 1949.

Armstrong's Logic

The word "Armstrong's" is disclaimed. Applicant claims ownership of Registration No. 125,953.
For Publications Issued Regularly Monthly.
Claims use since July 1, 1949.

Ser. No. 584,840. The H. A. Seinsheimer Company, Cincinnati, Ohio. Filed Sept. 14, 1949. (Sec. 2f.)

style flash

For Prepared Advertising Sold as Such.
Claims use since October 1930.

Ser. No. 586,506. Charles Warrell, Ruislip, Middlesex, England. Filed Oct. 18, 1949.

Applicant claims ownership of British Registration No. B671,170, dated July 14, 1948.
For Books.

Ser. No. 588,047. Arthur C. Rankin, doing business as Rankin Publications, Ottumwa, Iowa. Filed Nov. 18, 1949.

HELP

For Periodic Pamphlets.
Claims use since July 15, 1949.

Ser. No. 588,143. Prophetic Digest Publishing Company, Collingdale, Pa. Filed Nov. 21, 1949.

Prophetic Digest

The word "Digest" is disclaimed.
For Periodical.
Claims use since July 1948.

Ser. No. 591,778. General Features Corporation, New York, N. Y. Filed Feb. 1, 1950.

VIGNETTES OF LIFE

Applicant claims ownership of Registration No. 190,688.
For Cartoons Appearing in Newspaper Publications.
Claims use since June 1, 1924.

Ser. No. 592,543. Beverley L. Britton, doing business under the name Beverley Britton, Chevy Chase, Md. Filed Feb. 16, 1950.

BALANCING the BOOKS

The word "Books" is disclaimed.
For Newspaper Column Appearing From Time to Time.
Claims use since Sept. 9, 1937.

Ser. No. 593,283. New York Herald Tribune Inc., New York, N. Y. Filed Mar. 2, 1950.

elsworth

For Comic Strip.
Claims use since Nov. 28, 1949.

Ser. No. 593,371. Reynolds Metals Company, Richmond, Va. Filed Mar. 3, 1950.

AL-SEAL

The word "Seal" is disclaimed.
For Printed Strip Labels of Aluminum Foil for Cigarette Packages.
Claims use since Feb. 1, 1949.

Ser. No. 594,117. General Aniline & Film Corporation, New York and Binghamton, N. Y. Filed Mar. 17, 1950.

ANSCONIAN

For Periodical Publications.
Claims use since Jan. 31, 1943.

Ser. No. 594,128. Kappa Beta Pi Legal Sorority, Chicago, Ill. Filed Mar. 17, 1950.

The
KAPPA BETA PI
QUARTERLY

The word "Quarterly" is disclaimed.
For Periodical Publication.
Claims use since December 1916.

Ser. No. 594,194. Buzza-Cardozo, Los Angeles, Calif. Filed Mar. 18, 1950.

"Heart to Heart"

For Greeting Cards.
Claims use since Feb. 20, 1950.

CLASS 39
CLOTHING

Ser. No. 535,174. Joseph Nachman, Philadelphia, Pa. Filed Sept. 20, 1947.

LANA STEPHANS

The name "Lana Stephans" is fanciful.
For Blouses for Use by Women and Girls.
Claims use since Sept. 5, 1947.

Ser. No. 538,920. Hickey-Freeman Company, Rochester, N. Y. Filed Oct. 24, 1947.

Llamando

Applicant claims ownership of Registration No. 237,035.
For Men's Overcoats Made in Whole or a Substantial Part of Llama Hair.
Claims use since Aug. 2, 1927.

Ser. No. 538,923. Hickey-Freeman Company, Rochester, N. Y. Filed Oct. 24, 1947.

Porostyle

Applicant claims ownership of Registration No. 111,730.
For Men's Suits.
Claims use since Oct. 28, 1915.

Ser. No. 543,836. Regal Knitwear Company, Inc., New York, N. Y. Filed Dec. 9, 1947.

Regal
KNIT-WEAR

The use of the words "Knit-Wear" is disclaimed. Applicant claims ownership of Registrations Nos. 188,058 and 433,403.

For Knitted Wear of Cotton and Wool—Namely, Infant's and Children's Bathing Suits; Berets; Bonnets; Bootee Sets Consisting of Bootee Cap and Sacque; Mittens and Gloves; Creepers and Shirts; Panty Suits Consisting of Panty Shorts and Shirts; Kimonos; Legging Sets Consisting of Sweater, Legging, Cap, and Mittens; Sweaters, Sacques, Shawls, Swim Suits, and Sport Shirts; Wrapper Sets Consisting of Wrapper and Bonnet; Boys', Girls', and Misses' Sweaters; Knit Moccasins; Knit Beachwear—Namely, Bathing Suits and Trunks; Knit Headwear—Namely, Infants' and Children's Berets; and Knit Pilchers—Namely, a Knitted Item That Covers a Child's Diaper and Is Sometimes Also Called Soaker.
Claims use since Oct. 16, 1922.

Ser. No. 545,222. A. G. Behn Shoe Company, Arlington, N. J. Filed Dec. 23, 1947.

For Infants', Children's, and Growing Girls' Shoes of Leather, Fabric, Rubber, or Composition Material.
Claims use since Aug. 4, 1947.

Ser. No. 545,506. I. Miller & Sons, Inc., Long Island City, N. Y. Filed Dec. 26, 1947. (Sec. 2f.)

PERUGIA

For Women's and Misses' Shoes of Leather, Fabric, and Combinations of the Same.
Claims use since June 1923.

Ser. No. 554,054. Vivette Foundations, Inc., New York, N. Y. Filed Apr. 7, 1948.

For Girdles and Corsets.
Claims use since Mar. 10, 1948.

Ser. No. 556,539. Belk's Buying Service, Incorporated, Charlotte, N. C. Filed May 8, 1948.

ROMPIN

For Infants' and Children's Wear—Namely, Panties and Slips Made of Nylon, Cotton, or Rayon.
Claims use since Feb. 27, 1948.

Ser. No. 558,323. A. Solomon, New Orleans, La. Filed June 2, 1948.

For Men's, Young Men's and Boys' Trousers, Outer-Wear Suits of Clothing, and Outer-Wear Coats and Jackets.
Claims use since July 28, 1927.

Ser. No. 567,167. American Human Hair Goods Co., Inc., Chicago, Ill. Filed Oct. 19, 1948.

The picture is that of Rochelle Gordon, age eleven years, the daughter of Louis Gordon, president of the applicant corporation.
For Hair Nets.
Claims use since Sept. 15, 1946.

Ser. No. 568,139. Wells Lamont Corporation, Chicago, Ill. Filed Nov. 3, 1948.

WHITE MULE

Applicant claims ownership of Registrations Nos. 251,327, 303,697, 324,700, 342,532, 380,631, 388,057, 388,726, 393,273, 394,723, 399,009, and 405,160.
For Gloves of Leather and of Leather and Fabric.
Claims use since Nov. 1, 1927.

Ser. No. 568,235. Betty Fashions, Inc., New York, N. Y. Filed Nov. 5, 1948.

Betty Fashions

The word "Fashions" is disclaimed.
For Ladies' Coats and Suits.
Claims use since Oct. 8, 1947.

Ser. No. 570,763. Berker Sportcraft Limited, London, England. Filed Dec. 18, 1948.

Berkertex

Applicant claims ownership of British Registration No. 648,772, dated June 13, 1946.
For Women's and Children's Clothing—Namely, Jackets, Coats, Sweaters, Blouses, Dresses, Skirts, Suits, Playsuits, Shorts, and Slacks.

Ser. No. 571,696. The Holtite Manufacturing Company, Baltimore, Md. Filed Dec. 7, 1948.

DICTATOR

Applicant claims ownership of Registration No. 258,370.
For Rubber Heels and Soles for Shoes.
Claims use since Nov. 1, 1928.

Ser. No. 577,374. Jane Engel, Inc., New York, N. Y. Filed Apr. 19, 1949.

Jane engel

"Jane Engel" is the maiden name of the president of applicant corporation.

For Women's and Girls' Clothing for Day, Evening, Beach, Sport, and Maternity Wear—Namely, Coats, Raincoats, Suits, Skirts, Dresses, Shirts, Blouses, Underwear, Slips, Nightgowns, Pajamas, Robes, Bras, Panties, Girdles, Garter Belts, Stockings, Bathing Suits; and Women's and Girls' Accessories—Namely, Gloves, Scarves, Handkerchiefs, Sweaters, Hats, Veils; and Children's and Infants' Coats, Raincoats, Underwear, Dresses, Suits, Blouses, Pants, Panties, Socks, Pajamas, Nightgowns, Robes, and Bathing Suits.

Claims use since January 1935.

Ser. No. 578,431. Zonite Products Corporation, New York, N. Y. Filed May 7, 1949.

Wee-Pads

No claim is made to the word "Pads."

For Disposable Diaper Pads.

Claims use since Mar. 16, 1949.

Ser. No. 579,289. Peck & Peck, New York, N. Y. Filed May 21, 1949.

CLIPPER

For Jackets for Women.

Claims use since 1928.

Ser. No. 580,574. The Cambridge Rubber Company, Taneytown, Md. Filed June 16, 1949.

KORKITE

For Shoe Soles.

Claims use since Apr. 19, 1949.

Ser. No. 581,244. C. & A. Brenninkmeyer, Inc., Brooklyn, N. Y. Filed June 29, 1949.

Applicant claims ownership of Registration No. 441,409.

For Articles of Wearing Apparel—Namely, Women's and Children's Suits, Costumes Consisting of Jackets and Skirts, Over-Coats, Raincoats, Fur Coats, Dresses, Gowns for Outerwear, Lounging Robes, Bath Robes and Beach Robes, Knitted Sweaters and Cardigans, Undershirts and Outer Shirts, Blouses, Skirts, Trousers, Hats, and Bonnets, and Men's Raincoats.

Claims use since Feb. 29, 1948.

Ser. No. 581,245. C. & A. Brenninkmeyer, Inc., Brooklyn, N. Y. Filed June 29, 1949.

Applicant claims ownership of Registration No. 441,409.

For Articles of Wearing Apparel—Namely, Women's and Children's Suits, Costumes Consisting of Jackets and Skirts, Over-Coats, Raincoats, Fur Coats, Dresses, Gowns for Outerwear, Lounging Robes, Bath Robes and Beach Robes, Knitted Sweaters and Cardigans, Undershirts and Outer Shirts, Blouses, Skirts, Trousers, Hats, and Bonnets, and Men's Raincoats.

Claims use since Feb. 29, 1948.

Ser. No. 582,358. The A. S. Kreider & Son Co., Palmyra, Pa. Filed July 22, 1949.

FootKing

For Misses', Girls', Boys', Men's, Women's, and Children's Shoes of Leather, Fabric, or Part Leather and Part Fabric.

Claims use since Aug. 5, 1939.

Ser. No. 583,199. The Hagerstown Rubber Company, Hagerstown, Md. Filed Aug. 9, 1949. (Sec. 2f.)

CARLTON

For Rubber Soles and Heels.

Claims use since July 1, 1943.

Ser. No. 585,032. Sommer & Kaufmann, San Francisco, Calif. Filed Sept. 19, 1949.

The picture of the boys is fanciful.

For Boys' Shoes.

Claims use since Feb. 8, 1948.

Ser. No. 586,450. Aldens, Inc., Chicago, Ill. Filed Oct. 18, 1949.

Aldenaire

Applicant claims ownership of Registrations Nos. 406,733, 405,392, 331,100, 292,207, and 389,319.

For Women's and Misses' Wearing Apparel—Namely, Coats, Scarfcoats, Raincoats, Suits, Dresses, Maternity Dresses, Knit Sweaters, Blouses, Dress Shirts, Skirts, Jumpers, Slacks, Sport Vests, Jeans, Jackets, Toppers, Berets, Hats, Scarfs, Stocking Caps, Neckties, Handkerchiefs, Hoods, Muffs, Leather and Knit Gloves and Mittens, Leather, Cloth and Metal Belts, Shoes of Leather, Rubber and Fabric and Combinations of the Same, Jodhpurs, Leather Boots, Mocs, Snow Boots, Stadium Boots, Rubber Boots, House Slippers, Slipper Sox of Leather and Wool, Rubbers, Gaiters, Galoshes, Garter Belts, Panties, Chemises, Briefs, Knit Union Suits, Slips, Petticoats, Nightgowns, Pajamas, Bath, Lounging and Dressing Robes, Hosiery, Foundation Garments, Brassières, Girdles, Pantee Girdles, and Corsets.

Claims use since June 23, 1947.

Ser. No. 586,795. The Duquesne Manufacturing Company, New Kensington, Pa. Filed Oct. 25, 1949.

A Florence Fashion

The word "Fashion" is disclaimed. Applicant claims ownership of Registrations Nos. 158,664 and 158,665.

For Women's Bungalow Aprons, Dresses, Petticoats, Band Aprons, Nightgowns, Bloomers, and Hooverettes, Pinafore Aprons, Smocks, and Industrial Plant Workers', Maids', Waitresses', and Store Clerks' Uniforms.

Claims use since Apr. 1, 1948.

Ser. No. 586,796. The Duquesne Manufacturing Company, New Kensington, Pa. Filed Oct. 25, 1949.

Florence

Applicant claims ownership of Registrations Nos. 158,664 and 158,665.

For Women's Bungalow Aprons, Dresses, Petticoats, Band Aprons, Nightgowns, Bloomers, and Hooverettes, Pinafore Aprons, Smocks, Industrial Plant Workers', Maids', Waitresses', and Store Clerks' Uniforms.

Claims use since July 1916.

Ser. No. 586,797. The Duquesne Manufacturing Company, New Kensington, Pa. Filed Oct. 25, 1949.

The drawing is lined for shading. The word "Garments" is disclaimed. Applicant claims ownership of Registrations Nos. 158,664 and 158,665.

For Women's Bungalow Aprons, Dresses, Petticoats, Band Aprons, Nightgowns, Bloomers and Hooverettes, Pinafore Aprons, Smocks, and Industrial Plant Workers', Maids', Waitresses', and Store Clerks' Uniforms.

Claims use since August 1921.

Ser. No. 587,179. Corgi Hosiery Limited, Ammanford, Carmarthenshire, South Wales. Filed Nov. 2, 1949.

Applicant claims ownership of United Kingdom Registration No. 643,202 dated Dec. 28, 1945.

For Stockings and Socks (for Wear).

Ser. No. 587,724. Glovecraft, Inc., Johnstown, N. Y. Filed Nov. 14, 1949.

Broadside Stadium

Applicant claims ownership of Registration No. 389,223.

For Gloves Made of Leather and/or Fabric.

Claims use since September 1948.

Ser. No. 587,764. Sterling Belt Co., Inc., New York, N. Y. Filed Nov. 14, 1949.

Sterlining

For Garment Belts.

Claims use since Mar. 8, 1949.

Ser. No. 587,939. Davis & Catterall, New York, N. Y. Filed Nov. 17, 1949.

ELEPHANT

Applicant claims ownership of Registrations Nos. 513,697 and 515,912.

For Handkerchiefs.

Claims use since Jan. 13, 1913.

Ser. No. 587,972. I. M. Roffer Sons Company, Inc., New York, N. Y. Filed Nov. 17, 1949.

Roffa

For Women's Coats and Suits.

Claims use since Nov. 11, 1949.

Ser. No. 589,199. Day's Tailor-D Clothing, Inc., Tacoma, Wash. Filed Dec. 12, 1949. (Sec. 2f as to "Day's.")

Day's
DURAGAB

Applicant claims ownership of Registrations Nos. 120,907, 507,132, 240,724, and 171,901.
For Men's and Boys' Trousers.
Claims use since Apr. 15, 1949, as to the mark shown; and since 1918 as to "Day's."

Ser. No. 589,891. Oma Lee Cooper, doing business as Oma Lee Originals, Kansas City, Mo. Filed Dec. 24, 1949.

Oma Lee Original

The word "Original" is disclaimed. The name "Oma Lee" is fanciful.
For Children's Dresses.
Claims use since Mar. 1, 1945.

Ser. No. 590,370. Karl's Shoe Stores, Ltd., Los Angeles, Calif. Filed Jan. 5, 1950.

Karlene

For Women's Hosiery.
Claims use since Dec. 13, 1949.

Ser. No. 591,902. Amco Athletic Apparel Corp., New York, N. Y. Filed Feb. 3, 1950.

"the FRIGATE"

For Men's and Boys' Jackets.
Claims use since Dec. 20, 1949.

Ser. No. 591,903. Amco Athletic Apparel Corp., New York, N. Y. Filed Feb. 3, 1950.

THE Norvelt

For Men's and Boys' Jackets.
Claims use since Dec. 20, 1949.

Ser. No. 592,231. The Shirtcraft Company, Inc., New York, N. Y. Filed Feb. 9, 1950.

Weathersport

For Men's, Boys', and Ladies' Jackets.
Claims use since July 16, 1943.

Ser. No. 592,326. Sam Landorf & Co., Inc., New York, N. Y. Filed Feb. 11, 1950.

Young Land FASHIONS

The word "Fashions" is disclaimed.
For Children's Dresses.
Claims use since Aug. 25, 1949.

Ser. No. 592,488. Gustinettes, Incorporated, New York, N. Y. Filed Feb. 15, 1950.

BEACH-CHARMERS by Gustinettes

Applicant claims ownership of Registration No. 507,206.
For Women's Slippers and Casuals, Made of Rubber, Leather or Fabric, or Combinations Thereof.
Claims use since Dec. 1, 1949.

Ser. No. 592,575. The Olympic Glove Company, Inc., New York, N. Y. Filed Feb. 16, 1950.

BESARENE

For Protective Apparel for Industrial Workers—Namely, Gloves Made of Fabric, Sleeves, Aprons, and Spats.
Claims use since Dec. 10, 1949.

Ser. No. 592,580. Smith Brothers Manufacturing Co., Carthage, Mo. Filed Feb. 16, 1950.

Octmar

For Denim Garments of Work and Sports Type—Namely, Overalls, Dungarees, Jackets, Pants, and Shirts.
Claims use since Feb. 13, 1950.

Ser. No. 592,725. Sire, Inc., Chicago, Ill. Filed Feb. 18, 1950.

Sire

For Men's Belts and Suspenders.
Claims use since Jan. 24, 1950.

Ser. No. 593,380. Gustave P. Victorson, doing business as Philadelphia Hosiery Company, New York, N. Y. Filed Mar. 3, 1950.

FORTUNE-TELLER

For Ladies' Hosiery.
Claims use since June 1, 1940.

Ser. No. 595,241. The Bearfoot Sole Company, Inc., Boston, Mass. Filed Apr. 5, 1950.

AIRCORK

For Soles and Heels of Rubber Composition or Its Equivalent for Boots and Shoes.
Claims use since Aug. 28, 1939.

Ser. No. 595,892. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Apr. 18, 1950. (Sec. 2f.)

KENT

For Heels and Soles for Boots and Shoes.
Claims use since June 1939.

Ser. No. 595,893. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Apr. 18, 1950.

KORLOK

For Heels for Boots and Shoes.
Claims use since January 1943.

Ser. No. 596,258. H. H. Brown Shoe Co., Inc., Worcester, Mass. Filed Apr. 25, 1950.

AIR-MOC

The term "Moc" is disclaimed.
For Men's and Boys' Shoes.
Claims use since Mar. 16, 1950.

Ser. No. 597,222. New York Girl Coat Co., Inc., New York, N. Y. Filed May 10, 1950.

Custometric

For Coats for Women and Young Women.
Claims use since May 1, 1950.

Ser. No. 597,336. I. C. Isaacs & Co., Inc., Baltimore, Md. Filed May 12, 1950.

"All Ways"

For Women's Sportswear—Namely, Slacks and Shorts.
Claims use since Apr. 28, 1949.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 580,218. E. E. Weller Co., Providence, R. I. Filed June 9, 1949.

PLASTIGILD

For Shoe Ornaments Comprising Buckles, Rings, or Other Strap Fasteners Formed of Base Metal.
Claims use since Mar. 3, 1949.

Ser. No. 585,541. Needle Industries Limited, Birmingham, England. Filed Sept. 29, 1949. (Sec. 2f.)

MILWARD'S

Applicant claims ownership of Registration No. 519,022.
For Needles for Hand Sewing.
Claims use since January 1940 in Great Britain; and first used in commerce between Great Britain and the United States which may lawfully be regulated by Congress in January 1943.

Ser. No. 586,215. F. W. Woolworth Co., New York, N. Y. Filed Oct. 12, 1949.

The drawing is lined for red.
For Common and Safety Pins.
Claims use since 1922.

Ser. No. 596,498. Klik Promotions, Inc., New York, N. Y. Filed Apr. 28, 1950.

Double-Ette

For Device for Attachment to the Handle of a Lady's Handbag or the Like for Clampingly Holding Gloves and Having Means Whereby the Handbag or the Like, Together With the Attached Gloves, May Be Suspended From a Supporting Surface Such as the Edge of a Table or Counter.
Claims use since Apr. 25, 1950.

Ser. No. 596,518. Patons & Baldwins, Inc., New York, N. Y. Filed Apr. 28, 1950.

RED

HEART

Applicant claims ownership of Registrations Nos. 63,527, 159,848, and 364,700.
For Knitting Pins.
Claims use since Mar. 24, 1949.

Ser. No. 596,519. Patons & Baldwins, Inc., New York, N. Y. Filed Apr. 28, 1950.

The drawing is lined to indicate the color red. Applicant claims ownership of Registrations Nos. 63,527, 159,848, and 364,700.
For Knitting Pins.
Claims use since Mar. 24, 1949.

Ser. No. 596,804. Halward I. Risvold, Minneapolis, Minn. Original filed, act of 1946. Supplemental Register, May 3, 1950; amended to application, Principal Register, Oct. 13, 1950.

Northwest

For Shoe Laces.
Claims use since Jan. 1, 1949.

Ser. No. 597,614. Tek Hughes, Inc., New York, N. Y. Filed May 17, 1950. (Sec. 2f.)

Hughes

Applicant claims ownership of Registration No. 424,121.
For Brushes, Comb, and Mirror Sets, Composed of Plastics, Nonprecious Metals, and Other Materials Other Than Precious Metals.
Claims use since February 1918.

Ser. No. 597,995. Amoe Notion Co., New York, N. Y. Filed May 24, 1950.

SAFELINE

For Seam Binding.
Claims use since Feb. 6, 1950.

Ser. No. 598,388. Royal Hair Pin Corporation, New York, N. Y. Filed May 31, 1950.

CUDDLE CLIPS

SET YOUR CURLS WITH A HUG

The words "Set Your Curls With A Hug" and "Clips" are disclaimed.
For Hair Clips.
Claims use since Apr. 10, 1950.

Ser. No. 602,472. Armand Schwab & Co., Inc., New York, N. Y. Filed Aug. 19, 1950.

"PICOLO"

For Millinery Braids.
Claims use since Aug. 3, 1950.

CLASS 41

CANES, PARASOLS, AND UMBRELLAS

Ser. No. 593,930. Arthur P. Pfeil, Buffalo, N. Y. Filed Mar. 14, 1950.

Tubrella

The representation of an umbrella is disclaimed.
For Umbrellas.
Claims use since Nov. 15, 1947.

Ser. No. 599,561. Folding Products Mfg. Corp., New York, N. Y. Filed June 22, 1950.

The representation of the umbrella is disclaimed.
For Umbrellas.
Claims use since June 15, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 567,495. Butler Brothers, Chicago, Ill. Filed Oct. 23, 1948.

Loomcrest

Applicant claims ownership of Registration No. 352,614.
For Sheeting and Pillow Tubing, Mattress Covers, Wool Blankets, Comforters, Tablecloths, and Bedspreads.
Claims use since June 1932.

Ser. No. 570,259. Kanmak Textiles Inc., New York, N. Y. Filed Dec. 9, 1948.

KAN-KORD

The word "Kord" is disclaimed.
For Woolen Piece Goods and Piece Goods Made of Wool Blended With Cotton or Synthetic Fibers.
Claims use since Oct. 21, 1948.

Ser. No. 570,844. Fitts Dry Goods Company, Kansas City, Mo. Filed Dec. 20, 1948.

WARRIOR

For Pillow Cases, Sheets, and Table Cloths.
Claims use since 1926.

Ser. No. 571,113. Chatham Manufacturing Company, Elkin, N. C. Filed Dec. 27, 1948. (Sec. 2f.)

CHATHAM

The representation of fabric is disclaimed. The drawing is lined for shading purposes. Applicant claims ownership of Registrations Nos. 311,097, 325,154, and others.
For Blankets of Wool, Cotton, Rayon, and Combinations Thereof; Suitings of Wool; and Upholstery Fabrics of Cotton, Wool, Rayon, Nylon, and Other Synthetic Fibers, and Combinations Thereof.
Claims use since June 15, 1877.

Ser. No. 571,219. John King & Son Limited, Glasgow, Scotland. Filed Dec. 28, 1948.

KINGSONIA

For Window Hollands, Shade Cloth, Bed Sheets and Sheeting, Pillow Cases and Tubing, Furnishing Fabrics in the Piece, All Said Goods Being Made of Cotton, Rayon, Linen, or Mixtures Thereof.
First used in 1926; and first used in commerce between foreign nations and the United States which may lawfully be regulated by Congress in 1926.

Ser. No. 576,852. Cohn-Hall-Marx Co., New York, N. Y., now by merger, United Merchants and Manufacturers Inc., New York, N. Y., a corporation of Delaware. Filed Apr. 9, 1949.

WASHADAY

For Piece Goods of Wool, Cotton, Rayon, Nylon, and/or Silk or Combinations Thereof.
Claims use since Nov. 29, 1948.

Ser. No. 577,444. Norwich Knitting Company, Norwich, N. Y. Filed Apr. 20, 1949.

NORSET

For Textile Fabric Which Has Been Treated for Shrinkage and Which Is Made of Cotton and Synthetic Fibers.
Claims use since Feb. 3, 1949.

Ser. No. 577,582. Herbert Meyer, New York, N. Y. Filed Apr. 23, 1949.

Inspiration

For Silks, Rayons, Cottons, Woolens, and Linens—Namely, Fabrics in the Piece.
Claims use since May 20, 1948.

Ser. No. 578,771. Crawford Manufacturing Co., Inc., Richmond, Va. Filed May 13, 1949.

CHEMTEX

For Seat Cover Fabrics of Vegetable Fibers.
Claims use since Apr. 26, 1949.

Ser. No. 578,887. Oneida Fabrics Corporation, New York, N. Y. Filed May 14, 1949.

ONEIDA

For Piece Goods of Cotton, Silk, Wool, Linen, and Synthetic Fibers.
Claims use since October 1939.

Ser. No. 580,681. Schneider Silk Mills Inc., New York, N. Y. Filed June 17, 1949.

CLARET

For Piece Goods, Including Crepe, Satin, Twill, and Taffeta of Silk and Synthetic Fibers and Rayon.
Claims use since April 1949.

Ser. No. 580,683. Schneider Silk Mills Inc., New York, N. Y. Filed June 17, 1949.

SHERRY

For Piece Goods, Including Crepe, Satin, Twill, and Taffeta, of Silk and Synthetic Fibers and Rayon.
Claims use since June 1948.

Ser. No. 580,979. The Dayton Company, Minneapolis, Minn. Filed June 24, 1949.

ROYAL HOUSEHOLD

Applicant claims ownership of Registration No. 59,631.
For Table Cloths, Napkins, Sheets, Pillow-Cases, and Towels.
Claims use since Jan. 1, 1906.

Ser. No. 581,114. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Filed June 27, 1949.

CARPETILE

For Textile Rugs.
Claims use since May 27, 1949.

Ser. No. 582,645. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Filed July 28, 1949.

Carvetwist

For Textile Rugs and Carpets.
Claims use since July 11, 1949.

Ser. No. 583,747. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 20, 1949.

NYBLEND

For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibres, and Combinations Thereof Sold in Bolt.
Claims use since Apr. 25, 1949.

Ser. No. 583,749. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 20, 1949.

NYMONT

For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers, and Combinations Thereof Sold in Bolt.
Claims use since Apr. 25, 1949.

Ser. No. 583,751. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 20, 1949.

NYPOINT

For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers, and Combinations Thereof Sold in Bolt.
Claims use since Apr. 25, 1949.

Ser. No. 583,754. Goodall-Sanford, Inc., Sanford, Maine. Filed Aug. 20, 1949.

NYWEAVE

For Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers, and Combinations Thereof Sold in Bolt.
Claims use since Apr. 25, 1949.

Ser. No. 584,627. Leopold Gang, Inc., New York, N. Y. Filed Sept. 9, 1949.

GAR-FIT HAIR CANVAS "It Makes The Garment Fit"

The terms "Fit," "Hair Canvas," or "It Makes The Garment Fit" are disclaimed.
For Garment Interlining Having Animal Hair Content, Sold by the Yard and Roll.
Claims use since July 5, 1949.

Ser. No. 585,606. Shieiana Limited, London, England. Filed Sept. 30, 1949.

For Woolen and Worsted Piece Goods and Piece Goods Comprising Combinations of Wool or Worsted With Cotton, Linen, Rayon, or Nylon.
Claims use since March 1947 in Great Britain; and use in commerce between Great Britain and the United States which may lawfully be regulated by Congress in June 1949.

CLASS 43

THREAD AND YARN

Ser. No. 584,089. Talon, Inc., Meadville, Pa. Filed Aug. 26, 1949.

TALON

Applicant claims ownership of Registrations Nos. 243,746 and 500,160.
For Crocheting and Knitting Yarns.
Claims use since Aug. 10, 1949.

Ser. No. 594,029. Fielding & Johnson Limited, Leicester, England. Filed Mar. 16, 1950.

BOY BLUE

For Hand Knitting and Fingering Yarns, Mending Yarns, Tapestry Yarns, and Yarns for Embroidery Made of Pure Wool Fibre.
Claims use since Jan. 1, 1939; and first used in commerce between foreign nations and the United States which may lawfully be regulated by Congress on Aug. 17, 1946.

Ser. No. 596,516. Patons & Baldwins, Inc., New York, N. Y. Filed Apr. 28, 1950.

RED HEART

Applicant claims ownership of Registrations Nos. 63,527, 159,848, and 364,700.
For Wool Yarn.
Claims use since Sept. 8, 1936.

Ser. No. 596,517. Patons & Baldwins, Inc., New York, N. Y. Filed Apr. 28, 1950.

The drawing is lined to indicate the color red. Applicant claims ownership of Registrations Nos. 63,527, 159,848, and 364,700.
For Wool Yarn.
Claims use since Sept. 8, 1936.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 537,110. The Weber Dental Manufacturing Co., Canton, Ohio. Filed Oct. 7, 1947. (Sec. 2f as to "Weber.")

For Dental Engines, Dental X-Ray Units, Dental Units Each Including a Member Mounting One or More of the Following Articles of Dental Equipment: a Dental Engine, an Instrument Table, a Bunsen Burner, Spray Bottles, and Low Voltage Instruments, Dental Chairs, and Dental Fountain Cuspidors.
Claims use since Sept. 1, 1946, as to the mark shown; since 1898 as to "Weber"; and since Jan. 1, 1937, as to the shield design.

Ser. No. 547,508. Battle Creek Equipment Company, Battle Creek, Mich. Filed Jan. 20, 1948. (Sec. 2f.)

BATTLE CREEK

For Electric-Light-Bath Cabinets and Therapeutic Lamps, Hydrotherapy Apparatus (Water Spray or Shower), Apparatus in the Form of a Portable Light Bath for the Treatment of Diseases, Mechano-Therapy Apparatus (Bicycle-Type Exercisers, Mechanical Horses, Rowing-Type Exercisers, Walking Machines), Electrically Operated Reducing Lounges, Electrical-Treatment Apparatus (Sine-Wave Generators, Short Wave Therapy Equipment), Electric Blankets and Pads for Therapeutic Use, Vibratory Apparatus, and Massage Equipment—Namely, Tables, Exercise Tables, Hand Massage Vibrators, and Belt Exercisers.
Claims use since Jan. 1, 1911.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 504,553. Karl Andrew Hirzel, doing business as Hirzel Canning Company, Toledo, Ohio. Original filed, act of 1905, June 25, 1946; amended to application under act of 1946, Principal Register, Nov. 24, 1948.

STAR CROSS

For Canned Vegetables, Canned Vegetable Juices, Tomato Catsup, and Tomato Puree.
Claims use since November 1924.

Ser. No. 516,013. The Green Spring Co., Inc., Newville, Pa., assignee of The Green Spring Co. Original filed, act of 1905, Jan. 20, 1947; amended to application under act of 1946, Principal Register, Mar. 17, 1948.

The representation of a fish and the words "The Sign of a Feast" are disclaimed.
For Frozen Trout.
Claims use since Oct. 30, 1946.

Ser. No. 539,544. Henry Meltzer, doing business under the name of Popcorn Service Company, New York, N. Y. Filed Oct. 30, 1947.

TIP POP CORN

The words "Pop Corn" are disclaimed.
For Snacks Made of Puffed and Flavored Popcorn—Namely, Already Popped and Caramel Flavored Popcorn, and Already Popped and Sugar-Coated Popcorn.
Claims use since Sept. 30, 1947.

Ser. No. 541,640. Bilah Milling Company, Seymour, Ind., assignor to Acme-Evans Company, Inc., Indianapolis, Ind. Filed Nov. 19, 1947.

HERMES

For Wheat Flour.
Claims use since Feb. 15, 1916.

Ser. No. 549,670. L. D. Schreiber & Co., Inc., Chicago, Ill., and Green Bay, Wis. Filed Feb. 13, 1948.

Applicant disclaims the abbreviation "Co." The lining in the drawing does not represent color.
For Cheese.
Claims use since Apr. 22, 1942.

Ser. No. 551,857. The Colorado Milling & Elevator Co., doing business as The Ft. Collins Flour Mills Co., Denver and Ft. Collins, Colo., and elsewhere. Filed Mar. 13, 1948.

KITCHEN MAID

The drawing is lined for the color red.
For Wheat Flour.
Claims use since 1885.

Ser. No. 552,810. Karl Seiler & Sons, Inc., Philadelphia, Pa. Filed Mar. 23, 1948.

Applicant claims ownership of Registration No. 299,895.
For Liverwurst, Lunch Roll, Olive Loaf, Pimiento Loaf, and Pork Roll.
Claims use since Aug. 11, 1932.

Ser. No. 552,811. Karl Seiler & Sons, Inc., Philadelphia, Pa. Filed Mar. 23, 1948.

Applicant claims ownership of Registration No. 299,895.
For Liverwurst, Lunch Roll, Olive Loaf, Pimiento Loaf, and Pork Roll.
Claims use since Aug. 11, 1932.

Ser. No. 554,142. Nell Products Inc., Los Angeles, Calif. Filed Apr. 8, 1948. (Sec. 2f.)

VITA-NECTAR

No claim is made to the word "Nectar."
For Fruit Concentrate for Food Purposes.
Claims use since Sept. 26, 1941.

Ser. No. 558,490. Gum Products, Inc., Boston, Mass. Filed June 4, 1948.

ITS ITS

For Chewing Gum of the Bubble Gum Type.
Claims use since Sept. 19, 1947.

Ser. No. 558,971. Tobin Packing Co., Inc., Rochester and Albany, N. Y. Filed June 10, 1948. (Sec. 2f.)

GENESEE

For Hams, Bacon, Bologna Sausage, and Pork Sausage.
Claims use since Sept. 4, 1942.

Ser. No. 563,603. Clark Brothers Chewing Gum Company, Pittsburgh, Pa. Filed Aug. 17, 1948. (Sec. 2f.)

TENDERMINT

Applicant claims ownership of Registrations Nos. 415,834 and 371,360.
For Chewing Gum.
Claims use since June 15, 1944.

Ser. No. 565,332. Food Fair Stores, Inc., Philadelphia, Pa. Filed Sept. 17, 1948.

Mayfair

For Fresh Eggs.
Claims use since Aug. 1, 1937.

Ser. No. 579,667. Colonial Provision Co., Inc., Boston, Mass. Filed May 28, 1949.

Faneuil Hall

For Canned Beef With Gravy.
Claims use since Apr. 15, 1947.

Ser. No. 582,804. The Creamette Company, Minneapolis, Minn. Filed Aug. 3, 1949.

JUNIORETTES

For Macaroni Food in the Form of Small Macaroni Rings for Infants and Children.
Claims use since July 26, 1949.

Ser. No. 588,819. J. F. Wise, Mecca, Calif. Filed Dec. 5, 1949.

TA-BAR-ZALS

For Fresh Dates.
Claims use since Nov. 1, 1949.

Ser. No. 589,179. Harry A. Wagner, Hollywood, Calif. Filed Dec. 10, 1949.

TAY-KIT

For Spices, Herbs, Food Seasonings—Namely, Whole Cloves, Stick Cinnamon, Anise Seed, Celery Seed, Mustard Seed, Caraway, Dill Seed, Rosemary, Oregano, Coriander, Bay Leaves, Whole Pepper, and Chili Powder, Dried Mushrooms, Dried Whole Chilis, Fresh Garlic, Ground Chili, Dried Shrimp, Pine Nuts in Their Natural State; Candy, Confections for Bakery Products—Namely, Chocolate and Cinnamon Decorations, Silver Dragées for Decorative Purposes, and Sugar Crystals.
Claims use since Oct. 22, 1948.

Ser. No. 592,209. Kotake Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 9, 1950.

Edko

For Canned Foods—Namely, Shell Fish, Bamboo Shoots, Prepared Vegetables, Black Soy Beans, and "Shirataki," the Latter Being a Type of Alimentary Paste Made From Arum Root Powder.
Claims use since May 1, 1946, in the Territory of Hawaii.

Ser. No. 592,379. H. B. Murphy Company, Brawley, Calif. Filed Feb. 13, 1950.

GOLD HARP

Applicant claims ownership of Registration No. 406,050.
For Fresh Vegetables.
Claims use since Jan. 11, 1950.

Ser. No. 592,514. The Nestlé Company, Inc., New York, N. Y. Filed Feb. 15, 1950.

Eledon

Applicant claims ownership of Registration No. 352,701.
For Specially Prepared Milk Food for Infant Feeding.
Claims use since July 26, 1937.

Ser. No. 592,553. Salvatore Di Mauro, Hawthorne, N. Y. Filed Feb. 16, 1950.

Aunt Millie's

For Spaghetti Sauce.
Claims use since Dec. 22, 1947.

Ser. No. 593,344. General Baking Company, New York, N. Y. Filed Mar. 3, 1950.

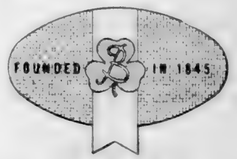
Bondie

Applicant claims ownership of Registrations Nos. 370,780 and 159,357.
For Bread, Bread Crumbs, Coffee Rings, Coffee Cakes, Sweet Buns or Rolls, Kladderdatch Cake, Pastry, Biscuits, Doughnuts, Cookies, Potato Chips, and Pretzels.
Claims use since Sept. 1, 1944.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 583,021. Beverwyck Breweries, Inc., Albany, N. Y. Filed Aug. 5, 1949.



The drawing is lined for the colors green and gold. Applicant claims ownership of Registrations Nos. 28,634, 51,249, and others.
For Ale.
Claims use since Mar. 14, 1949.

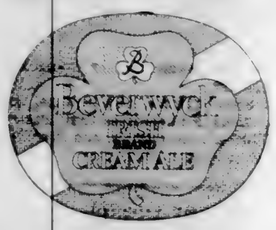
Ser. No. 583,022. Beverwyck Breweries, Inc., Albany, N. Y. Filed Aug. 5, 1949.

The drawing is lined for green and gold. Applicant claims ownership of Registrations Nos. 345,323, 386,531, and others.
For Beer.
Claims use since May 3, 1949.

Ser. No. 583,023. Beverwyck Breweries, Inc., Albany, N. Y. Filed Aug. 5, 1949.

The lining on the drawing represents the colors gold and red. The words "Famous Beer" are disclaimed. Applicant claims ownership of Registrations Nos. 28,634, 51,249, and others.
For Beer.
Claims use since Jan. 5, 1935.

Ser. No. 583,025. Beverwyck Breweries, Inc., Albany, N. Y. Filed Aug. 5, 1949.



The lining represents the colors gold and green. No exclusive rights are claimed in the words "Irish Brand Cream Ale." Applicant claims ownership of Registrations Nos. 28,634, 51,249, and others.
For Ale.
Claims use since Mar. 9, 1949.

Ser. No. 592,805. Duquesne Brewing Company of Pittsburg, Pittsburgh, Pa. Filed Feb. 21, 1950.

SILVER TOP

Applicant claims ownership of Registration No. 395,042.
For Beer.
Claims use since 1904.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 519,924. Nicky Chini, Milan, Italy. Original filed, act of 1905, Apr. 1, 1947; amended to application under act of 1946, Principal Register, Nov. 12, 1947.

NICKY CHINI

For Perfumes.
Claims use since 1936; and use in commerce between Italy and the United Statess which may lawfully be regulated by Congress since 1936.

Ser. No. 555,393. George B. Edmunds, Atlanta, Ga. Filed Apr. 23, 1948.

The words "Composer Of Distinctive Perfumes" are disclaimed. The name "Mozart" refers to the famous Austrian composer, now deceased.
For Perfumes.
Claims use since Mar. 27, 1948.

Ser. No. 557,920. Godefroy Manufacturing Company, St. Louis, Mo. Filed May 27, 1948.

TRESemmé

The word "Tres" is disclaimed.
For Oil Shampoo Tint, Drab Toner (a Dye or Toner That Gives a Drab Color Instead of the Bright Color Frequently Associated With Hair Dye), Hair Bleach Containing Oil, Solvent for Removing Dye Color From Hair, Shampoo, Hair Pencil (a Product Resembling a Lipstick in Appearance Which May be Applied to Grey Hair Near the Scalp as the Dyed Hair Grows Out), and Stain Remover (Used for Removing Dye Stains From Face and Hands).
Claims use since Nov. 28, 1947.

Ser. No. 559,804. Victor Brog, doing business under the trade names of Rene St. Claire Products Co. and The Gintone Laboratories, Memphis, Tenn. Filed June 11, 1948. (Sec. 2f.)

Wav-O-Bob

For Preparation for Removing Dandruff, Hair Oil, Hair Tonics, Liquid Shampoos, and Cream Shampoos.
Claims use since Mar. 3, 1927.

Ser. No. 561,946. Roeding Park Pharmacy, Inc., doing business as Bennette-Barnett Laboratory, Fresno, Calif. Filed July 22, 1948.

BEN-BAR

For Scalp Preparation to Remove Loose Dandruff.
Claims use since June 1, 1948.

Ser. No. 570,616. Helena Rubinstein, Inc., New York, N. Y. Filed Dec. 16, 1948. (Sec. 2f.)

beauty grains

For Skin Cleanser in Powder-Form.
Claims use since January 1934.

Ser. No. 578,676. Bristol-Myers Company, New York, N. Y. Filed May 12, 1949. (Sec. 2f.)

Ingram

Applicant claims ownership of Registrations Nos. 419,106, 136,478, 253,700, and 253,540.
For Tooth Powder.
Claims use since Apr. 6, 1949.

Ser. No. 580,295. Bert Jay Friedman, Santa Monica, Calif. Filed June 11, 1949.

The drawing is lined for the colors red and gold.
For Sun Tan Lotion.
Claims use since May 27, 1949.

Ser. No. 581,491. Virginia Parks, Inc., Chicago, Ill. Filed July 2, 1949.

YP

For Personal Deodorant.
Claims use since June 20, 1949.

Ser. No. 581,492. Virginia Parks, Inc., Chicago, Ill. Filed July 2, 1949.

VIRGINIA PARKS

The name "Virginia Parks" is fanciful and does not refer to any known living person.
For Personal Deodorants.
Claims use since June 20, 1949.

Ser. No. 586,431. Revlon Products Corporation, New York, N. Y. Filed Oct. 17, 1949.

PLUMB BEAUTIFUL

For Nail Enamel, Lipsticks, Face Rouge, Face Powder, Liquid Make-Up, Face Make-Up, Cream Make-Up, Lotions.
Claims use since Aug. 1, 1949.

Ser. No. 587,212. Lionel G. Rothchild, doing business under the Name of Lenel Co., Dallas, Tex. Filed Nov. 2, 1949.

FROSTED COLOGNE

The word "Cologne" is disclaimed.
For Cologne.
Claims use since Oct. 1, 1949.

Ser. No. 595,965. King Research, Inc., Brooklyn, N. Y. Filed Apr. 19, 1950.

DANDRICIDE

For Hair Rinsing Solution.
Claims use since Apr. 15, 1949.

Ser. No. 596,155. Bourjois, Inc., New York, N. Y. Filed Apr. 22, 1950.

Waves of Fragrance

The word "Fragrance" is disclaimed.
For Eau De Cologne.
Claims use since Mar. 23, 1950.

Ser. No. 596,486. Desitin Chemical Co., Providence, R. I. Filed Apr. 28, 1950.

DESITIN

Applicant claims ownership of Registration No. 216,628.
For Nursery and Toilet Powder.
Claims use since Aug. 12, 1932.

Ser. No. 597,115. B. Altman & Co., New York, N. Y. Filed May 9, 1950.

For Perfume, Cologne, Toilet Water, Toilet Lotions, Toilet Creams, Lipsticks, Rouge, Vanity Cases Containing Rouge and Lipstick, Hair Oil, Pomades, Hair Coloring, Hair Rinses, Shaving Preparations for Use After Shaving, Nail Polish, Nail Polish Remover, Cuticle Remover, Nail Enamel, Nail Mending Preparations, Sachet Powder, Sachet Bags, Bubbling Bath Preparations, Bath Crystals, Bath Powder, Face Packs, Dentifrices, and Water Softener for Personal Bathing.
Claims use since 1915.

Ser. No. 597,146. Gillette Safety Razor Company, Boston, Mass. Filed May 9, 1950.

tame

For Creme Hair Dressing.
Claims use since Feb. 9, 1950.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 553,758. Richard Laubly, Westport, Conn. Filed Apr. 28, 1948.

LAN-O-WAX

The word "Wax" is disclaimed.
For Softening Preparation for Leather Treatment Having Incidental Cleansing Properties.
Claims use since Apr. 23, 1948.

Ser. No. 557,920. Godefroy Manufacturing Company, St. Louis, Mo. Filed May 27, 1948. (Classified in Class 51.)
The word "Tres" is disclaimed.

TRESemmé

For Oil Shampoo Tint, Drab Toner (a Dye or Toner That Gives a Drab Color Instead of the Bright Color Frequently Associated With Hair Dye), Hair Bleach Containing Oil, Solvent for Removing Dye Color From Hair, Shampoo, Hair Pencil (a Product Resembling a Lipstick in Appearance Which May be Applied to Grey Hair Near the Scalp as the Dyed Hair Grows Out), and Stain Remover (Used for Removing Dye Stains From Face and Hands).
Claims use since Nov. 28, 1947.

Ser. No. 559,804. Victor Brog, doing business under the trade names of Rene St. Claire Products Co. and the Gintone Laboratories, Memphis, Tenn. Filed June 11, 1948. (Classified in Class 51.) (Sec. 2f.)

Wăv-O-Bob

For Preparation for Removing Dandruff, Hair Oil, Hair Tonics, Liquid Shampoos, and Cream Shampoos.
Claims use since Mar. 3, 1927.

Ser. No. 589,177. R. W. Thomson, doing business as Thomson Chemical Company, Lima, Ohio. Filed Dec. 10, 1949.
The word "Laundr" is disclaimed.

Laundr-eez

For Detergent Laundry Compound Having Incidental Water Softening Properties.
Claims use since Apr. 8, 1948.

Ser. No. 589,560. The Cellowax Company, also trading under the name of The Cellowax Co., Baltimore, Md. Filed Dec. 19, 1949.

Little Tailor

For Dry Cleaning Composition.
Claims use since Dec. 8, 1949.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 556,095. The Garrett Corporation, Los Angeles, Calif. Filed May 3, 1948. (Classified in Class 103.)
Applicant claims ownership of Registrations Nos. 412,094, 501,129, and 501,442.

For Engineering Services in Aircraft, Commercial and Industrial Fields Including Research and Studies Relating to Electrical, Mechanical, Metallurgical, Pneumatic, Aerodynamic and Thermodynamic Problems; and Design, Development and Testing of Equipment Apart From the Manufacture and Sale of Its Products; and the Overhauling, Reconditioning, and Modifying of Aircraft for the Public.
Claims use since August 1942.

Ser. No. 576,527. Diamond Council of America, New York, N. Y. Filed Apr. 2, 1949.

Registered Gemologist

No claim is made to the representation of a diamond or to any of the wording except "Diamontologist."
For Consulting, Advisory, and Supervisory Services Rendered to Retail Jewelers in Connection With Purchasing, Advertising, and Merchandising Activities and Particularly in Connection With the Maintenance of High Standards in Customer Relationships Between Such Retail Jewelers and Their Customers.
Claims use since Jan. 15, 1949.

Ser. No. 587,431. El Chico Cafe, Dallas, Tex. Filed Nov. 7, 1949.

All the wording on the drawing is disclaimed with the exception of the words "El Chico." The drawing is lined to denote shading. The portrait shown in the drawing is purely fanciful.
For Restaurant Services.
Claims use since Jan. 1, 1940.

Ser. No. 591,108. Ruritan National, Wakefield, Va. Filed Jan. 19, 1950.

The word "National" is disclaimed.
For Community Services—Namely, Encouraging the Investment of Capital in Community Industries and Enterprises Through Dissemination of Information Regarding Such Industries and Enterprises to the Public; Promoting the Establishment of New Industries in a Community by Dissemination of Information Regarding the Community Which Fits It for a Given Industry; Aiding Rural Youth Through Sponsorship of Scout Troops, Through Equipping of Athletic Teams, Through Offer of Cash Prizes to Outstanding Students and Athletes, Through Sponsoring of Trips to State Legislatures and the Like; Aiding in Charitable Work Through Distribution of Food and Clothing to the Needy, Through Furnishing Lunches to Underprivileged Children, Through Sponsoring Medical Clinics for the Indigent; Aiding the Educational Program Through Contribution of Books to School and Public Libraries, Through Sponsoring Community Study Groups and the Like.
Claims use since 1928.

Ser. No. 593,560. Pinkerton's National Detective Agency, Inc., New York, N. Y. Filed Mar. 7, 1950.

For Private Detective Investigations and Property Surveillance.
Claims use since 1884.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 535,776. Charles R. Williams, Huntsville, Ala. Filed Sept. 25, 1947.

"GOLDEN WEDDING"

For Advertising and Entertainment Services Through the Medium of a Radio Program in the Nature of Interviews With Couples, Who Have Been Married 50 Years or More.
Claims use since Nov. 15, 1946.

Ser. No. 578,315. Bliss Display Corp., New York, N. Y. Filed May 6, 1949.

JOLLY JINGLE

For Designing and Formulating Retail Store Advertising, Decorations, and Displays.
Claims use since Apr. 19, 1949.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 591,712. Bankers Trust Company, New York, N. Y. Filed Jan. 31, 1950.

The lining is a part of the mark, which is a representation of the Tower of Bankers Trust Company main building at 16 Wall Street, New York, N. Y.
For Banking and Trust Services, Comprising Commercial Banking, Such as Making of Loans and Discounts, Commercial and Individual Checking Accounts, Fiduciary Services Comprising, Acting as Agent and Trustee of Personal and Corporate Trusts Including Pension Trusts and Retirement Plans, Acting as Executor, Administrator, Guardian, Custodian, Registrar, and Transfer Agent, and Dividend Paying Agent on Stocks of Corporations, Acting as Dealer in Government and Municipal Securities; and Other Miscellaneous Financial Services Incident to the Business of Commercial Banks and Trust Companies.
Claims use since May 20, 1912.

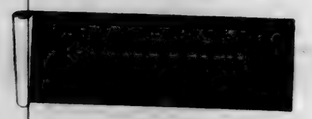
CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 527,396. Weave Masters Incorporated, Cincinnati, Ohio, assignee of Weave Masters. Filed July 5, 1947.

The words "Weave Masters" are disclaimed.
For Reweaving and Restoration of Damaged or Irregular Fabrics.
Claims use since June 1, 1946, as to "Weave Masters"; and since May 1, 1947, as shown.

Ser. No. 556,095. The Garrett Corporation, Los Angeles, Calif. Filed May 3, 1948.



Applicant claims ownership of Registrations Nos. 412,094, 501,129, and 501,442.

For Engineering Services in Aircraft, Commercial, and Industrial Fields Including Research and Studies Relating to Electrical, Mechanical, Metallurgical, Pneumatic, Aerodynamic, and Thermodynamic Problems; and Design, Development, and Testing of Equipment Apart From the Manufacture and Sale of Its Products; and the Overhauling, Reconditioning, and Modifying of Aircraft for the Public.

Claims use since August 1942.

Ser. No. 576,792. Cherokee Electric Company, Fountain City, Tenn. Filed Apr. 8, 1949.

For Electrical Services—Namely, Installing, Servicing, and Repairing Electrical Appliances, and Lighting Fixtures; and Wiring Buildings.

Claims use since Jan. 11, 1946.

Ser. No. 585,494. Belson Company, Inc., Worcester, Mass. Filed Sept. 16, 1949.

BELSONIZE

For Surfacing and Resurfacing Exterior and Interior Surfaces of Buildings and Dwellings With Waterproof Permanent Plastic Coatings.

Claims use since Apr. 14, 1949.

Ser. No. 586,575. Charles D. Verde, doing business as Hairspring Vibrating Co., Union City, N. J. Filed Oct. 19, 1949.

VIBRA-PAC

For Watch Repairing and Adjusting.

Claims use since June 15, 1949.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 586,425. Northwest Airlines, Inc., St. Paul, Minn. Filed Oct. 17, 1949.

SKY CAP

For General Porter Service—Namely, the Handling of Passengers' Baggage, Rendered at Air Terminals.

Claims use since June 1, 1949.

Ser. No. 591,942. Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn. Filed Feb. 3, 1950.

SOO LINE

The word "Line" is disclaimed.

For Railroad Passenger and Freight Transportation Service.

Claims use since June 12, 1888.

Ser. No. 592,887. Erie Railroad Company, Cleveland, Ohio. Filed Feb. 23, 1950. (Sec. 2f.)

ERIE

For Railroad, Highway, and Marine Transportation of Passengers, Mail, and Property.

Claims use since 1886.

Ser. No. 594,297. Transcontinental & Western Air, Inc., Kansas City, Mo. Filed Mar. 20, 1950.

TWA

Applicant claims ownership of Registrations Nos. 390,227 and 391,192.

For Air Transportation of Persons, Property and Mail.

Claims use since August 1931.

CLASS 106

MATERIAL TREATMENT

Ser. No. 532,261. Alrose Chemical Company, Cranston and Providence, R. I. Filed Aug. 25, 1947.

PROTONIZED

For Treating Woolen or Worsted Yarn, in That Form or Prior to Spinning to Increase Resistance to Felting and Felting-Shrinkage.

Claims use since July 10, 1947.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 535,776. Charles R. Williams, Huntsville, Ala. Filed Sept. 25, 1947. (Classified in Class 101.)

"GOLDEN WEDDING"

For Advertising and Entertainment Services Through the Medium of a Radio Program in the Nature of Interviews With Couples, Who Have Been Married 50 Years or More.

Claims use since Nov. 15, 1946.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,365. Medicinal Preparation in Liquid Form for the Treatment of Warts. Vance Laboratories, San Francisco, Calif.
Filed Oct. 8, 1945, Serial No. 489,629. Published Jan. 25, 1949. Class 18.

444,366. Locks, Latches, Parts to Door Locks and Latches, Mortise Bolts, Barrel Bolts, Secret Gate Latch, Chain Bolts, Keys, and Padlocks. National Brass Company, Grand Rapids, Mich.
Filed Mar. 18, 1946, Serial No. 498,439. Published Aug. 29, 1950. Class 25.

444,367. Hydrocarbon Plasticizing Ingredient for General Use in the Industrial Arts Such as the Preparation and Plasticizing of Rubber, Resins, Molding Clay, and the Like. Standard Alcohol Company, New York, N. Y., now by change of name Enjay Company, Inc.
Filed Oct. 3, 1946, Serial No. 510,211. Published Sept. 19, 1950. Class 6.

444,368. Costume Jewelry—Namely, Brooches, Pins, Bracelets, Necklaces, Pendants, Compacts, and Cigarette Cases, Etc. Ingenue, Inc., New York, N. Y.
Filed Oct. 21, 1946, Serial No. 511,222. Published Oct. 3, 1950. Class 28.

444,369. Bakery Equipment—Namely, Machines for Icing of Cakes. Consolidated Equipment Company, Incorporated, Wichita, Kans.
Filed Dec. 7, 1946, Serial No. 513,877. Published Sept. 19, 1950. Class 23.

444,370. Paper Bands for Paper Money. Fas-Cash System, Inc., Detroit, Mich.
Filed Dec. 16, 1946, Serial No. 514,335. Published Sept. 5, 1950. Class 37.

444,371. Plows and Parts Thereof. The Oliver Corporation, Chicago, Ill.
Filed Dec. 31, 1946, Serial No. 515,129. Published Sept. 12, 1950. Class 23.

444,372. Chewing Gum. Harry A. Gasberg, Los Angeles, Calif.
Filed Mar. 3, 1947, Serial No. 518,398. Published Aug. 15, 1950. Class 46.

444,373. Olive Oil. Albert N. Cory, Inc., New York, N. Y.
Filed Mar. 26, 1947, Serial No. 519,571. Published Sept. 6, 1949. Class 46.

444,374. Engine-Powered Tractors and Cultivators. Gardeneer, Inc., Minneapolis, Minn.
Filed May 12, 1947, Serial No. 522,228. Published Nov. 8, 1949. Class 23.

444,375. Textile Ribbons. Wasserstein Brothers, New York, N. Y.
Filed July 3, 1947, Serial No. 525,993. Published Sept. 19, 1950. Class 42.

444,376. Paper Tablets. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed July 3, 1947, Serial No. 526,136. Published Oct. 3, 1950. Class 37.

ACT OF 1946, PRINCIPAL REGISTER

535,123. Gasoline and Hydrocarbon Fuels for Internal Combustion Engines. Mid-West Refineries, Inc., Grand Rapids, Mich.
Original filed, act of 1905, Sept. 20, 1945; amended to application under act of 1946, Principal Register, Sept. 22, 1949, Serial No. 488,767. CONCURRENT USE. Published Oct. 3, 1950. Class 15.

535,124. Gasoline, Kerosene, Lubricating Greases and Oils for Motor Vehicles and Parts, and Petroleum By-Products—Namely, Naptha. Egbert Leslie Lantron, Mesa, Ariz.
Original filed, act of 1905, Nov. 15, 1945; amended to application under act of 1946, Principal Register, Oct. 10, 1949, Serial No. 491,648. CONCURRENT USE. Published Oct. 3, 1950. Class 15.

535,125. Prepared Stereotype Dry Matrices. Brooks Paper Company, St. Louis, Mo.
Original filed, act of 1905, Apr. 6, 1946; amended to application under act of 1946, Principal Register, Dec. 31, 1947, Serial No. 499,763. Published Aug. 29, 1950. Class 50.

535,126. Mixture of Fruits and Nuts Used in Making Confections and Cakes. Wiltz W. Wagner, doing business as Charles P. Wagner and Brother, New Orleans, La.
Original filed, act of 1905, May 13, 1946; amended to application under act of 1946, Principal Register, July 14, 1948, Serial No. 502,045. Published Aug. 15, 1950. Class 46.

535,127. Atomizers, Breast-Pipes, Breast-Pumps, Breast-Shields, Rectal, Fountain and Vaginal Syringes, Etc. Davol Rubber Company, Providence, R. I.
Original filed, act of 1920, May 14, 1946; amended o application under act of 1946, Principal Register, Mar. 4, 1949, Serial No. 502,063. Published Sept. 19, 1950. Class 44.

535,128. Foot Cream; Glycerine; Skin Lotions; Castor Oil; Disinfectants; Etc. Mario Products Co., Cleveland, Ohio.
Original filed, act of 1905, Sept. 27, 1946; amended to application under act of 1946, Principal Register, May 3, 1948, Serial No. 509,858. Published Sept. 12, 1950. Class 51.

535,129. Monosodium Glutamate, a Seasoning Material for Enhancing the Natural Flavor of Foods. A. E. Staley Manufacturing Company, Decatur, Ill.
Original filed, act of 1905, Nov. 23, 1946; amended to application under act of 1946, Principal Register, Apr. 5, 1948, Serial No. 513,139. Published Nov. 29, 1949. Class 46.

535,130. Candy. Norris Inc., Atlanta, Ga.
Original filed, act of 1905, Jan. 22, 1947; amended to application under act of 1946, Principal Register, Nov. 5, 1947, Serial No. 516,163. Published July 4, 1950. Class 46.

535,131. Non-Alcoholic Maltless Carbonated Soft Drinks. Sol Lenzer Corporation, Buffalo, N. Y.
Original filed, act of 1905, Feb. 24, 1947; amended to application under act of 1946, Principal Register, Nov. 14, 1949, Serial No. 518,052. Published Oct. 10, 1950. Class 45.

535,132. Metallic Dies Used in the Powdered Metallurgy Art. Merriman Bros. Inc., Boston, Mass.
Original filed, act of 1905, Feb. 27, 1947; amended to application under act of 1946, Principal Register, Apr. 8, 1948, Serial No. 518,243. Published Oct. 25, 1949. Class 23.

535,133. Textile Carpets and Rugs. The Magee Carpet Company, Bloomsburg, Pa.
Original filed, act of 1905, Mar. 19, 1947; amended to application under act of 1946, Principal Register, May 14, 1948, Serial No. 519,280. Published Sept. 19, 1950. Class 42.

535,134. Cake. Drake Bakeries Incorporated, Brooklyn, N. Y.
Original filed, act of 1905, Apr. 16, 1947; amended to application under act of 1946, Principal Register, July 27, 1948, Serial No. 520,799. Published Aug. 15, 1950. Class 46.

535,135. Spices. Furst-McNess Company, Freeport, Ill.
Original filed, act of 1905, May 21, 1947; amended to application under act of 1946, Principal Register, Dec. 5, 1947, Serial No. 522,766. Published Aug. 8, 1950. Class 46.

535,136. Fancy Printed and Embossed Papers, Paper Box Covers and Paper Wraps. C. H. Forsman Company, New York, N. Y.
Orignal filed, act of 1905, June 3, 1947; amended to application under act of 1946, Principal Register, May 6, 1948, Serial No. 523,464. Published Sept. 12, 1950. Class 37.

535,137. Paper Towels. Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif.
Filed July 5, 1947, Serial No. 527,128. Published Aug. 22, 1950. Class 37.

535,138. Estrogenic Hormone Compositions. Armour and Company, Chicago, Ill.
Filed July 5, 1947, Serial No. 527,776. Published Mar. 9, 1948. Class 18.

535,139. Fresh Vegetables and Fresh Melons. Joe Maggio, doing business as Joe D. Maggio, Holtville, Calif.
Filed July 28, 1947, Serial No. 529,791. Published Jan. 31, 1950. Class 46.

535,140. Electrical Goods—Namely, Switches. Alcor Manufacturing Company, Chicago, Ill.
Filed July 31, 1947, Serial No. 530,049. Published Oct. 10, 1950. Class 21.

535,141. Shave Soap, Solidified Shave-Cream, Lather Shave-Cream, and Brushless Shave-Cream. Rawlings International, Inc., New York, N. Y.
Filed July 31, 1947, Serial No. 530,120. Published Mar. 9, 1948. Class 51.

535,142. Fresh and Dried Garlic. Pacific Produce Company, San Francisco, Calif.
Filed Aug. 5, 1947, Serial No. 530,556. Published Aug. 8, 1950. Class 46.

535,143. Component Parts of Radio Communication Receivers and Transmitters—Namely, Variable Air Capacitors, Etc. James Millen Manufacturing Company, Inc., Malden, Mass.
Filed Aug. 6, 1947, Serial No. 530,667. Published Oct. 10, 1950. Class 21.

535,144. Prepared Sandwiches Each Composed of a Roll Containing a Ground Beef Patty, and Known as Hamburgers; Bakery Products—Namely, Pies, Buns, Cakes. White Castle System, Inc., Columbus, Ohio.
Filed Aug. 14, 1947, Serial No. 531,402. Published Aug. 15, 1950. Class 46.

535,145. Wallpaper and Borders. United Wallpaper, Inc., Chicago, Ill.
Filed Sept. 10, 1947, Serial No. 534,068. Published Sept. 5, 1950. Class 37.

535,146. Sterile Disposable Venoclysis Sets Consisting of a Rubber Tubing Connector, Plastic Tubing, and a Needle Adapter. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 18, 1947, Serial No. 534,857. Published Jan. 13, 1948. Class 44.

535,147. Ladies' and Misses' Slips and Nightgowns. Du Benay Undergarment, Inc., New York, N. Y.
Filed Sept. 18, 1947, Serial No. 534,884. Published Dec. 21, 1948. Class 39.

535,148. Canned Vegetables. Tendersweet Sales Corporation, Cedar Rapids, Iowa, assignee of Iowa Canning Company.
Filed Sept. 19, 1947, Serial No. 535,040. Published Aug. 8, 1950. Class 46.

535,149. Heddle Frames, Heddles, Twine Harnesses, Reeds, Dents for Reeds, and Strapping, All for Textile Looms. Emmons Loom Harness Co., Lawrence, Mass.
Filed Sept. 26, 1947, Serial No. 535,836. Published Aug. 22, 1950. Class 23.

535,150. Text and Cover Papers, for Use in the Printing Industry and Art Field. Curtis Paper Company, Newark, Del.
Filed Oct. 2, 1947, Serial No. 536,502. Published Sept. 5, 1950. Class 37.

535,151. Combination Key Holders and Key Cases, Made of Metal, Plastic, and Similar Materials Other Than Leather. Raymond P. McNeil, doing business as McNeil Machine & Tool Company, Stratford, Conn.
Filed Oct. 7, 1947, Serial No. 537,060. Published Sept. 19, 1950. Class 13.

535,152. Non-Alcoholic Maltless Beverages Used in Mixing Alcoholic and Non-Alcoholic Drinks. Beverage Distributors, Inc., doing business under the name Marlboro Beverage Company, San Francisco, Calif.
Filed Oct. 9, 1947, Serial No. 537,283. Published Aug. 15, 1950. Class 45.

535,153. Waterproof Paper Rolls, Greaseproof Paper Rolls, Etc. Protective Papers, Inc., Elgin and Union, Ill.
Filed Oct. 9, 1947, Serial No. 537,356. Published Sept. 19, 1950. Class 37.

535,154. Index-Bristol Paper. American Writing Paper Corporation, Holyoke, Mass.
Filed Oct. 10, 1947, Serial No. 537,395. Published Sept. 26, 1950. Class 37

535,155. Table Cloths, Napkins, Runners, and Doilies. James G. Hardy & Co., Inc., New York, N. Y.
Filed Oct. 11, 1947, Serial No. 537,586. Published Sept. 19, 1950. Class 42.

535,156. Lawn Tools Comprising Grass Shears, Hedge Shears, and Pruning Shears. The Lewis Engineering and Manufacturing Company, Alliance, Ohio.
Filed Oct. 17, 1947, Serial No. 538,152. Published July 4, 1950. Class 23.

535,157. Locks and Keys. The Yale & Towne Manufacturing Co., New York, N. Y.
Filed Oct. 17, 1947, Serial No. 538,220. Published Sept. 26, 1950. Class 25.

535,158. Fountain Pens, Ball Pens, and Mechanical Pencils. Penguin Pens, Inc., New York, N. Y.
Filed Oct. 25, 1947, Serial No. 539,077. Published Sept. 26, 1950. Class 37.

535,159. Varnish. Stetson Paint & Varnish Company, Chicago, Ill.
Filed Oct. 31, 1947, Serial No. 539,783. Published Sept. 5, 1950. Class 16.

535,160. Canned Grapefruit Juice for Food Purposes. L. F. Drake, Mercedes, Tex.
Filed Nov. 1, 1947, Serial No. 539,858. Published Aug. 8, 1950. Class 46.

535,161. Beer. A. Gettelman Brewing Company, Milwaukee, Wis.
Filed Nov. 5, 1947, Serial No. 540,186. Published Sept. 19, 1950. Class 48.

535,162. Collars, Negligee and Dress Shirts, and Pajamas for Men. Carmi-Feature Underwear, Incorporated, Carmi, Ill.
Filed Nov. 8, 1947, Serial No. 540,520. Published Sept. 12, 1950. Class 39.

535,163. Tape and Label Holders, Moisteners, and Activators, Apart From Driven Feeding and Cutting Means, and Label Dispensing Packages. Nashua Gummed and Coated Paper Company, Nashua, N. H.
Filed Nov. 8, 1947, Serial No. 540,551. Published Sept. 5, 1950. Class 37.

535,164. Tape and Label Holders, Moisteners, and Activators, Apart From Driven Feeding and Cutting Means, and Label Dispensing Packages. Nashua Gummed and Coated Paper Company, Nashua, N. H.
Filed Nov. 8, 1947, Serial No. 540,553. Published Sept. 5, 1950. Class 37.

535,165. Tympan Overlay Paper Consisting of Special High Tensil Strength Paper Covered With Rubber, Used in Printing Processes. Rapid Roller Co., Chicago, Ill.
Filed Nov. 19, 1947, Serial No. 541,708. Published Oct. 3, 1950. Class 37.

535,166. Honey. The Morey Mercantile Company, Denver, Colo.
Filed Nov. 22, 1947, Serial No. 542,045. Published Aug. 15, 1950. Class 46.

535,167. Mailing Envelopes, File Folders, and File Pockets. Ames Safety Envelope Company, Somerville, Mass.
Filed Nov. 24, 1947, Serial No. 542,060. Published Sept. 26, 1950. Class 37.

535,168. Textile Piece Goods Made of Cotton. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Nov. 25, 1947, Serial No. 542,297. Published Sept. 19, 1950. Class 42.

535,169. Expansion Shields, Toggle Bolts, Screw Anchors, Bolt Anchors, and Turnbuckles. Arro Expansion Bolt Company, Marion, Ohio.
Filed Nov. 28, 1947, Serial No. 542,430. Published Sept. 19, 1950. Class 13.

535,170. Apparatus for the Treatment of Solids Suspended in Liquids—Namely, for Apparatus or Equipment Known as Thickeners or Clarifiers. The Dorr Company, New York, N. Y.
Filed Oct. 24, 1947, Serial No. 542,739. Published Sept. 5, 1950. Class 23.

535,171. Dentists' Record and Account Book. Colwell Publishing Company, Champaign, Ill.
Filed Nov. 29, 1947, Serial No. 542,747. Published Sept. 26, 1950. Class 37.

535,172. Corduroy Fabrics in the Piece Composed of Cotton. Crompton Company, Crompton, R. I.
Filed Dec. 3, 1947, Serial No. 543,107. Published Sept. 19, 1950. Class 42.

535,173. Hand Fire Extinguisher Supported Upon a Bracket and Featuring a Tube Filled With a Chemical Which Is Released by an Operating Valve Through a Funnel at the End of the Tube. Tel-O-Post Company, Akron, Ohio.
Filed Dec. 4, 1947, Serial No. 543,337. Published Sept. 19, 1950. Class 23.

535,174. Cigars. I. Lewis Cigar Manufacturing Company, Newark, N. J.
Filed Dec. 5, 1947, Serial No. 543,495. Published Sept. 26, 1950. Class 17.

535,175. Plain and Stuffed Olives Packed in Bottles or Cans. James P. Smith & Company, Inc., New York, N. Y.
Filed Dec. 17, 1947, Serial No. 544,616. Published Feb. 22, 1949. Class 46.

535,176. Apple Brandy. Henry Kelly Importing & Distributing Co. Inc., New York, N. Y.
Filed Dec. 23, 1947, Serial No. 545,258. Published Aug. 15, 1950. Class 49.

535,177. Whiskey. Henry Kelly Importing & Distributing Co. Inc., New York, N. Y.
Filed Dec. 23, 1947, Serial No. 545,260. Published Aug. 15, 1950. Class 49.

535,178. Extract for Non-Alcoholic Maltless Soft Drinks and Soft Drinks Made Therefrom. Edward H. Magnus, doing business as Henry Magnus, Chicago, Ill.
Filed Dec. 29, 1947, Serial No. 545,633. Published Aug. 15, 1950. Class 45.

535,179. Rye Flour. Van Dusen Harrington Co., doing business under the name of King Midas Flour Mills, Minneapolis, Minn.
Filed Dec. 29, 1947, Serial No. 545,672. Published Aug. 1, 1950. Class 46.

535,180. Paper Napkins. American Lace Paper Company, Milwaukee, Wis.
Filed Jan. 2, 1948, Serial No. 545,933. Published Aug. 22, 1950. Class 37.

535,181. Fresh Vegetables. California Vegetable Growers, Guadalupe, Calif.
Filed Jan. 10, 1948, Serial No. 546,647. Published Aug. 1, 1950. Class 46.

535,182. Partially Printed Stationery in Reel-Wound and Flat Pack Form for Use in Autographic Registers. The Hamilton Autographic Register Co., Hamilton, Ohio.
Filed Sept. 9, 1947, Serial No. 547,380. Published Sept. 5, 1950. Class 37.

535,183. Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same. Harry Sachs, doing business as Flavorex Company, Baltimore, Md.
Filed Jan. 23, 1948, Serial No. 547,841. Published Aug. 22, 1950. Class 45.

535,184. Fresh Oranges. C. H. Withers, Niland, Calif.
Filed Jan. 26, 1948, Serial No. 548,037. Published Aug. 1, 1950. Class 46.

535,185. Paper—Namely, Bond, Ledger, Duplicating, Manifold Onion Skin, Bristol, Cover, Offset, Vellum, Printing, Writing, Blotting, Gummed in Sheet Form, and Mailing and Correspondence Envelopes. H. P. Andrews Paper Company, New York, N. Y.
Filed Feb. 4, 1948, Serial No. 548,710. Published Sept. 12, 1950. Class 37.

535,186. Manually Adjustable Indicia Charts. Motivation Charts Inc., Jewell, Iowa.
Filed Feb. 7, 1948, Serial No. 549,085. Published Sept. 26, 1950. Class 37.

535,187. Loose Leaf and Bound Book Paper. National Blank Book Company, Holyoke, Mass.
Filed Feb. 13, 1948, Serial No. 549,649. Published Sept. 12, 1950. Class 37.

535,188. Women's and Children's Frocks, Blouses, Suits, Aprons and Overalls; Men's Suits, Trousers, Nightgowns, Pyjamas, Dressing Gowns, Vests, Pants, Knickers, Etc. Tootal Broadhurst Lee Co. Limited, Manchester, England.
Filed Mar. 1, 1948, Serial No. 550,967. Published Sept. 12, 1950. Class 39.

535,189. Writing and Ledger Paper. Hurlbut Paper Company, South Lee, Mass.
Filed Mar. 4, 1948, Serial No. 551,177. Published Sept. 12, 1950. Class 37.

535,190. Wheat Flour. The Colorado Milling & Elevator Co., Denver Colo., and elsewhere, doing business as The Salt Lake Flour Mills, Salt Lake City, Utah.
Filed Mar. 5, 1948, Serial No. 551,242. Published Aug. 15, 1950. Class 46.

535,191. Rubber Baby Pants, Rubber Aprons and Bibs, and Rubber and Rubberized Rain Garments—Namely, Coats, Suits, Jackets, Shirts, Pants, Leggings, and Hats. Archer Rubber Company, Milford, Mass.
Filed Mar. 11, 1948, Serial No. 551,676. Published Aug. 29, 1950. Class 39.

535,192. Rubber Baby Pants, Rubber Aprons and Bibs, and Rubber and Rubberized Rain Garments—Namely, Coats, Suits, Jackets, Shirts, Pants, Leggings, and Hats. Archer Rubber Company, Milford, Mass.
Filed Mar. 11, 1948, Serial No. 551,678. Published Aug. 29, 1950. Class 39.

535,193. Wines. Fruit Industries, Ltd., doing business as California Wine Association, San Francisco, Calif.
Filed Mar. 16, 1948, Serial No. 552,050. Published Sept. 12, 1950. Class 47.

535,194. Artificial Fish Lure. Timcor, Inc., Cleveland, Ohio.
Filed Mar. 18, 1948, Serial No. 552,288. Published Sept. 19, 1950. Class 22.

535,195. Canned Fruits, Canned Berries, Canned Vegetables, Canned Fruit Juices for Food Purposes, Etc. Knoebel Mercantile Company, Denver, Colo.
Filed Mar. 22, 1948, Serial No. 552,667. Published Aug. 8, 1950. Class 46.

535,196. Brandy. Fruit Industries, Ltd., San Francisco, Calif.
Filed Mar. 26, 1948, Serial No. 553,095. Published Sept. 26, 1950. Class 49.

535,197. Coin Operated Milk Vending or Dispensing Machines. Samuel D. Polsen, Bridgeport, Conn.
Filed Mar. 27, 1948, Serial No. 553,216. Published Sept. 12, 1950. Class 23.

535,198. Blank and Partially Printed Leaflets for Loose Leaf Binders, Order Pad Covers, Album Sheet Holders, Filing Books, Loose-Leaf Binders, Celluloid Indexes, Photograph Albums, Counter Catalogue Holders. The Heinn Company, Milwaukee, Wis.
Filed Apr. 2, 1948, Serial No. 553,700. Published Sept. 26, 1950. Class 37.

535,199. Canned Tomatoes. Albert W. Sisk & Son, Preston, Md.
Filed Apr. 13, 1948, Serial No. 554,523. Published July 11, 1950. Class 46.

535,200. Insulated Electric Wires and Insulated Electric Cables. Essex Wire Corporation, Detroit, Mich.
Filed Apr. 20, 1948, Serial No. 555,090. Published Sept. 26, 1950. Class 21.

535,201. Paints and Painters' Materials for Interior and Exterior Use—Namely, Paints, Etc. The Martin-Senour Company, Chicago, Ill.
Filed Apr. 22, 1948, Serial No. 555,281. Published Sept. 12, 1950. Class 16.

535,202. Beer. Oshkosh Brewing Company, Oshkosh, Wis.
Filed Apr. 22, 1948, Serial No. 555,347. Published Aug. 22, 1950. Class 48.

535,203. Imitation Flavor Concentrates Used in the Preparation of Non-Alcoholic Maltless Soft Drinks. The Perfection Company, Ltd., Waco, Tex.
Filed Apr. 23, 1948, Serial No. 555,443. Published Sept. 26, 1950. Class 45.

535,204. Comforters. American Feather Products, Chicago, Ill.
Filed May 3, 1948, Serial No. 556,050. Published Sept. 19, 1950. Class 42.

535,205. Wallpaper. United Wallpaper, Inc., Chicago, Ill.
Filed May 5, 1948, Serial No. 556,298. Published Sept. 26, 1950. Class 37.

535,206. Medicinal Compound for Use in Relieving the Symptoms of Colds, Etc. Alfred Chester Hemmingsen, doing business as Hemmingsen Drug Store, Marshall, Mich.
Filed May 6, 1948, Serial No. 556,337. Published Mar. 21, 1950. Class 18.

535,207. Fresh Melons. Griffin and Busch, Mendota, Calif.
Filed May 15, 1948, Serial No. 557,130. Published Aug. 8, 1950. Class 46.

535,208. Synthetic Detergent for Cleaning Metal and Non-Metal Surfaces. Chester Whitfield Smith, doing business under the name Whitfield Chemicals, Detroit, Mich.
Filed May 15, 1948, Serial No. 557,169. Published Sept. 19, 1950. Class 52.

535,209. Incandescent and Fluorescent Lamps. Duro-Test Corporation, North Bergen, N. J., and elsewhere in the United States.
Filed May 25, 1948, Serial No. 557,736. Published Sept. 26, 1950. Class 21.

535,210. Alcoholic Beverage Composed of Distilled Gin and Blackberry Wine. London & Company Inc., Elizabeth, N. J.
Filed May 26, 1948, Serial No. 557,852. Published Sept. 12, 1950. Class 49.

535,211. Printed Stationery—Namely, Letterhead Paper and Envelopes, Partially Printed Prescription Blanks, Appointment Cards and Memorandum Pads for the Medical Profession. A. & A. W. Ehmling, Upper Darby, Pa.
Filed May 28, 1948, Serial No. 558,020. Published Sept. 26, 1950. Class 37.

535,212. Lawn Mowers. The E. T. Rugg Company, Newark, Ohio.
Filed June 1, 1948, Serial No. 558,247. Published Sept. 12, 1950. Class 23.

535,213. Cleaner, Used Primarily for Cleaning and Maintaining Floors in Industrial Plants. The Cudahy Packing Company, Chicago, Ill.
Filed June 3, 1948, Serial No. 558,364. Published Sept. 12, 1950. Class 52.

535,214. Dressing for Water-Proofing Flylines and Flies. The Silicote Corporation, Oshkosh, Wis.
Filed June 4, 1948, Serial No. 558,525. Published Mar. 28, 1950. Class 6.

535,215. Fishing Reels. Langley Corporation, San Diego, Calif.
Filed June 7, 1948, Serial No. 558,657. Published Sept. 12, 1950. Class 22.

535,216. Firecrackers. Wilfong Fireworks & Specialties Co., Fort Worth, Tex.
Filed June 7, 1948, Serial No. 558,677. Published Sept. 12, 1950. Class 9.

535,217. Firecrackers. Wilfong Fireworks & Specialties Co., Fort Worth, Tex.
Filed June 7, 1948, Serial No. 558,678. Published Sept. 12, 1950. Class 9.

535,218. Liquid Cleanser for Leathers and Simulated Leathers. Kurt Lehmann, Jr., doing business as Leathercraft Process, New York, N. Y.
Filed June 9, 1948, Serial No. 558,796. Published Mar. 1, 1949. Class 4.

535,219. Polyvinyl Chloride Resins and Compounds in the Form of Powder and Granules. Omni Products Corporation, New York, N. Y.
Filed June 15, 1948, Serial No. 559,239. Published Sept. 19, 1950. Class 6.

535,220. Polyvinyl Chloride Resins and Compounds in the Form of Powder and Granules. Omni Products Corporation, New York, N. Y.
Filed June 15, 1948, Serial No. 559,240. Published Sept. 19, 1950. Class 6.

535,221. Mailing Envelopes and Pocket Labels Comprising a Label To Be Affixed to a Package and Having a Pocket for Receiving a Packing Slip or Invoice for the Addressee. Gaw-O'Hara Envelope Co., Chicago, Ill.
Filed May 18, 1948, Serial No. 559,472. Published Oct. 3, 1950. Class 37.

535,222. Sardines, Spanish Bristling Sprats, Filets of Anchovies, Calamares (Devilled Fish), Tuna Fish, Shell Fish, in Olive Oil, Tomato Sauce, and Brine. Massó Hermanos, S. A., Vigo, Spain.
Filed June 25, 1948, Serial No. 560,212. Published July 25, 1950. Class 46.

535,223. Blankets and Rugs of Wool or Cotton or of Mixtures of These Materials. Wormalds & Walker Limited, Dewsbury, England.
Filed June 25, 1948, Serial No. 560,243. Published Sept. 19, 1950. Class 42.

535,224. **Modified Fatty Oils and Blends of Modified Fatty Oils.** Archer-Daniels-Midland Company, Minneapolis, Minn.
Filed June 28, 1948, Serial No. 560,311. Published Sept. 19, 1950. Class 6.

535,225. **Draperies and Fabric Wall Coverings Made of Rayon and Cotton.** Trimz Company, Inc., Chicago, Ill.
Filed June 30, 1948, Serial No. 560,505. Published Sept. 12, 1950. Class 42.

535,226. **Dressed Dolls.** Ruth Gibbs, Inc., Flemington, N. J.
Filed July 3, 1948, Serial No. 560,692. Published Sept. 19, 1950. Class 22.

535,227. **Stands for Holding a Shaving Brush, and Stands for Holding a Shaving Brush and a Safety Razor and Incorporating a Used Razor-Blade Receptacle or Bank.** Maxwell-Phillip Co., Inc., New York, N. Y.
Filed July 3, 1948, Serial No. 560,720. Published Sept. 19, 1950. Class 13.

535,228. **Waterproof Sheeting and Shower Curtains Made Thereof.** The Stork Company, Weymouth, Mass.
Filed July 13, 1948, Serial No. 561,269. Published Sept. 19, 1950. Class 42.

535,229. **Various Paper Office Supplies—Namely, Stenographers' Notebooks, Etc.** Ennis Tag & Salesbook Company, Ennis, Tex.
Filed July 14, 1948, Serial No. 561,302. Published Sept. 5, 1950. Class 37.

535,230. **Plastic-Toys—Namely, Birds, Animals, Whales, Dolls, Water Wings, Balls, Airplanes, and Wading Pools.** Doughboy Industries, Inc., New Richmond, Wis.
Filed July 15, 1948, Serial No. 561,450. Published Sept. 12, 1950. Class 22.

535,231. **Electric Cut Outs Composed of Slate or Porcelain, and Electric Circuit Breakers.** Heinemann Electric Company, Trenton, N. J.
Filed July 15, 1948, Serial No. 561,463. Published Sept. 26, 1950. Class 21.

535,232. **Crib Blankets.** Beacon Manufacturing Company, Swannanoa, N. C.
Filed July 21, 1948, Serial No. 561,796. Published Sept. 19, 1950. Class 42.

535,233. **Tape Dispensers, Sold Empty, Made Partly of Metal, Etc.** Dage, Inc., Cincinnati, Ohio.
Filed July 21, 1948, Serial No. 561,808. Published Aug. 29, 1950. Class 23.

535,234. **Inorganic Detergent Having Water Softening Properties for General Washing Purposes.** Diamond Alkali Company, Cleveland, Ohio.
Filed July 22, 1948, Serial No. 561,892. Published Sept. 19, 1950. Class 52.

535,235. **Non-Saponaceous Detergent Material Having Water Softening Properties Especially for Cleansing Metal Dairy Equipment.** Diamond Alkali Company, Cleveland, Ohio.
Filed July 22, 1948, Serial No. 561,895. Published Sept. 12, 1950. Class 52.

535,236. **Sleeping Bags of the Mattress or Bed Type.** Jerome H. Weiss, doing business as Alaska Sleeping Bag Company, Portland, Oreg.
Filed July 22, 1948, Serial No. 561,962. Published Sept. 12, 1950. Class 22.

535,237. **Peat Moss Used as a Fertilizer.** Atkins & Durbrow, Inc., New York, N. Y.
Filed Aug. 10, 1948, Serial No. 563,098. Published Oct. 3, 1950. Class 10.

535,238. **Peat Moss Used as a Fertilizer.** Atkins & Durbrow, Inc., New York, N. Y.
Filed Aug. 10, 1948, Serial No. 563,099. Published Oct. 3, 1950. Class 10.

535,239. **Bingo Boards.** Moore & Hansen, Englewood, Colo.
Filed Aug. 16, 1948, Serial No. 563,486. Published Sept. 12, 1950. Class 22.

535,240. **Lingerie—Namely, Nightgowns, Pajamas, Petticoats, Slips, and Panties.** Symphony Lingerie Co., Inc., New York, N. Y.
Filed Aug. 17, 1948, Serial No. 563,644. Published Sept. 26, 1950. Class 39.

535,241. **Dresses for Women and Girls.** Max Wiesen & Sons Co., Inc., New York, N. Y.
Filed Aug. 24, 1948, Serial No. 563,962. Published Sept. 12, 1950. Class 39.

535,242. **Frozen Applesauce, Frozen Berries, Frozen Fruits, Frozen Rhubarb, and Frozen Mixed Fruits.** Deerfield Packing Corporation, Upper Deerfield, N. J., now by change of name Seabrook Farms Co., a corporation of New Jersey.
Filed Apr. 5, 1948, Serial No. 563,990. Published July 18, 1950. Class 46.

535,243. **Toy Scales.** Al-Vern Corporation, Jerome, Mich.
Filed Aug. 26, 1948, Serial No. 564,179. Published Sept. 19, 1950. Class 22.

535,244. **Golf Balls.** Mercantile Stores Company, Inc., Wilmington, Del.
Filed Aug. 26, 1948, Serial No. 564,209. Published Oct. 3, 1950. Class 22.

535,245. **Children's or Sidewalk Bicycles, and Children's Scooters, Sleds, and Wagons.** Aldens, Inc., Chicago, Ill.
Filed Aug. 31, 1948, Serial No. 564,421. Published Sept. 12, 1950. Class 22.

535,246. **Piece Goods of Cotton, Rayon, Linen, Nylon, Silk, and Combinations Thereof.** A. Steinam Company, Inc., New York, N. Y.
Filed Aug. 31, 1948, Serial No. 564,471. Published Sept. 19, 1950. Class 42.

535,247. **Electrical Warning Signals, Etc.** The Sparks-Withington Company, Jackson, Mich.
Filed Sept. 8, 1948, Serial No. 564,843. Published Oct. 10, 1950. Class 21.

535,248. **Men's Underwear.** Lewis Knitting Company, Janesville, Wis.
Filed Sept. 15, 1948, Serial No. 565,192. Published Sept. 19, 1950. Class 39.

535,249. **Bond Paper.** Groveton Papers Company, Groveton, N. H.
Filed Sept. 22, 1948, Serial No. 565,620. Published Sept. 5, 1950. Class 37.

535,250. **Bond Paper.** Groveton Papers Company, Groveton, N. H.
Filed Sept. 22, 1948, Serial No. 565,621. Published Sept. 5, 1950. Class 37.

535,251. **Racquet Strings and Fishing Leader Materials.** Reelon Corporation, South San Francisco, Calif.
Filed Sept. 24, 1948, Serial No. 565,813. Published Sept. 12, 1950. Class 22.

535,252. **Hydraulic Laminating Presses.** Plastic Laminating Corporation, Union, N. J.
Filed Sept. 29, 1948, Serial No. 566,099. Published Sept. 5, 1950. Class 23.

535,253. **Maltless Soft Drinks.** Leroy O. Schneeberger, doing business as The Shakolet Company, St. Louis, Mo.
Filed Oct. 1, 1948, Serial No. 566,247. Published Nov. 1, 1949. Class 45.

535,254. **Oat Flour, a Specially Milled Flour to be Used as a Stabilizer and Gum Constituent, Principally for Food Products.** The Quaker Oats Company, Chicago, Ill.
Filed Sept. 10, 1948, Serial No. 566,279. Published Aug. 8, 1950. Class 46.

535,255. **Non-Alcoholic, Uncarbonated and Maltless Beverage Sold as a Soft Drink.** Canadian Food Products Limited, Toronto, Ontario, Canada.
Filed Oct. 4, 1948, Serial No. 566,378. Published Sept. 26, 1950. Class 45.

535,256. **Locking Relays and Electrical Apparatus for Operating Same.** Johnson Fare Box Company, Chicago, Ill.
Filed Oct. 13, 1948, Serial No. 566,942. Published Sept. 26, 1950. Class 21.

535,257. **Handles for Hand and Power Mowers.** The Eclipse Lawn Mower Co., Prophetstown, Ill.
Filed Oct. 11, 1948, Serial No. 567,112. Published Aug. 22, 1950. Class 23.

535,258. **Pearl Jewelry for Personal Wear and Adornment—Namely, Finger Rings, Earrings, Pins and Tie Pins, and Necklaces.** James J. Boutross, doing business under the fictitious name and style of Empress Pearl Syndicate, Los Angeles, Calif.
Filed Oct. 28, 1948, Serial No. 567,753. Published Oct. 3, 1950. Class 28.

535,259. **Soap.** Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Nov. 3, 1948, Serial No. 568,096. Published Sept. 12, 1950. Class 52.

535,260. **Locks, Excepting Those Incorporating a Timing Movement or Timing Mechanism or Having a Timing Function.** Victor M. Carter, doing business as Vimcar Sales Company, Los Angeles, Calif.
Filed Nov. 5, 1948, Serial No. 568,238. Published Dec. 20, 1949. Class 25.

535,261. **Domestic Clothes Washing Machines, Clothes Ironers, and Mechanical Clothes Driers.** George M. Gibson, Bellevue, Iowa.
Filed Nov. 20, 1948, Serial No. 569,151. Published Oct. 10, 1950. Class 24.

535,262. **Plastic Film in Rolls or Pieces for Use in Making Raincoats, Etc.** The Barr Company, Washington, D. C.
Filed Nov. 30, 1948, Serial No. 569,589. Published Sept. 19, 1950. Class 42.

535,263. **Covers and Pads for Ironing Machines, Pressing Machines, Puff Irons, Steam Boards, Steam Finishers, and Ironing Boards.** Quality Products Company, Chicago, Ill.
Filed Nov. 30, 1948, Serial No. 569,638. Published Oct. 10, 1950. Class 24.

535,264. **Synthetic Latex and Resin Composition.** United States Rubber Company, New York, N. Y.
Filed Dec. 14, 1948, Serial No. 570,528. Published Sept. 19, 1950. Class 6.

535,265. **Textile Fabrics of Nylon Yarn.** Peerless Mills Co. of New York, Inc., New York, N. Y.
Original filed, act of 1946, Supplemental Register, Dec. 17, 1948; amended to application, Principal Register, March 18, 1950, Serial No. 570,716. Published Sept. 19, 1950. Class 42.

535,266. **Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.** Peerless Mills Co. of New York, Inc., New York, N. Y.
Filed Dec. 17, 1948, Serial No. 570,717. Published Sept. 20, 1949. Class 42.

535,267. **Fabrics of Silk, Wool, Cotton, Linen, Acetate, Mohair, Rayon, Worsted, or Mixtures Thereof, Sold in the Piece.** Stanley H. Goldsmith, Inc., Philadelphia, Pa.
Filed Dec. 20, 1948, Serial No. 570,848. Published Sept. 19, 1950. Class 42.

535,268. **Textile Fabrics of Nylon Yarn.** Peerless Mills Co. of New York, Inc., New York, N. Y.
Original filed, act of 1946, Supplemental Register, Dec. 20, 1948; amended to application, Principal Register, Mar. 18, 1950, Serial No. 570,881. Published Sept. 19, 1950. Class 42.

535,269. **Petroleum or Mineral Jelly for Industrial Use.** Freedom-Valvoline Oil Company, Freedom, Pa.
Filed Dec. 23, 1948, Serial No. 571,023. Published Sept. 12, 1950. Class 6.

535,270. **Prepared Table Salt.** International Salt Co., Inc., Scranton, Pa.
Filed Dec. 30, 1948, Serial No. 571,329. Published Aug. 8, 1950. Class 46.

535,271. **Decorated and Printed Plastic Films for Making Into Shower Curtains, Raincoats, Tablecloths, and the Like.** Velveray Corporation, New York, N. Y.
Filed Dec. 31, 1948, Serial No. 571,473. Published Sept. 19, 1950. Class 42.

535,272. **Decorated and Printed Plastic Films for Making Into Shower Curtains, Raincoats, and the Like.** Velveray Corporation, New York, N. Y.
Filed Dec. 31, 1948, Serial No. 571,474. Published Sept. 19, 1950. Class 42.

535,273. **Braided Rugs.** Troy Yarn & Textile Co., Pawtucket, R. I.
Filed Jan. 3, 1949, Serial No. 571,587. Published Sept. 19, 1950. Class 42.

535,274. **Hard Rubber Parts of Telephone Receivers or Transmitters; Etc.** Pirelli Societa per Azioni, Milan, Italy.
Filed Dec. 27, 1948, Serial No. 571,686. Published Sept. 26, 1950. Class 21.

535,275. **Desk Calendars.** Carroll N. Cross, doing business as Ad-A-Day Company, Taunton, Mass.
Filed Jan. 7, 1949, Serial No. 571,793. Published Sept. 26, 1950. Class 37.

535,276. **Desk Calendars.** Carroll N. Cross, doing business as Ad-A-Day Company, Taunton, Mass.
Filed Jan. 7, 1949, Serial No. 571,794. Published Sept. 26, 1950. Class 37.

535,277. **Amusement Devices, Consisting of Toy Pianographs.** The Gar-Mar Company, Dallas, Tex.
Filed Jan. 8, 1949, Serial No. 571,857. Published Sept. 19, 1950. Class 22.

535,278. **Carbonated water.** The Shasta Water Company, San Francisco, Calif.
Filed Jan. 10, 1949, Serial No. 571,937. Published Aug. 29, 1950. Class 45.

535,279. **Food Savoring Powders Comprising Principally Mono Sodium Glutamate.** International Minerals & Chemical Corporation, Chicago, Ill.
Filed Jan. 15, 1949, Serial No. 572,248. Published Aug. 15, 1950. Class 46.

535,280. **Electric Switches and Electric Relay Controls.** Cook Electric Company, Chicago, Ill.
Filed Jan. 21, 1949, Serial No. 572,486. Published Oct. 10, 1950. Class 21.

535,281. **Kraft Wrapping Paper, Both Plain and Treated To Make It Water Resistant for Meat Packing.** Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed Jan. 21, 1949, Serial No. 572,524. Published Sept. 26, 1950. Class 37.

535,282. **Dry Cleaning Soap Compound for Use in Connection With a Dry Cleaning Solvent.** Takamine Laboratory, Inc., Clifton, N. J.
Filed Jan. 21, 1949, Serial No. 572,529. Published Sept. 12, 1950. Class 52.

535,283. **Plant Food.** Agricultural Laboratories, Inc., Columbus, Ohio.
Filed Jan. 22, 1949, Serial No. 572,543. Published Oct. 3, 1950. Class 10.

535,284. **Canned Foods—Namely, Vegetables, Fruits, Fish; Cocoa, Table Syrup, Catsup, Pickles, Prepared Mustard, Vinegar, Peanut Butter, Food Flavoring Extracts, Jellies.** S. Kahn's Sons, Inc., Evansville, Ind.
Filed Jan. 25, 1949, Serial No. 572,746. Published Aug. 15, 1950. Class 46.

535,285. Built In Wall Radio Receiving Set. Wallmaster Radios, Inc., San Francisco, Calif.
Filed Jan. 25, 1949, Serial No. 572,786. Published Sept. 26, 1950. Class 21.

535,286. Canned Crabmeat. Bay State Crabmeat Co., Boston, Mass.
Filed Jan. 26, 1949, Serial No. 572,825. Published Aug. 15, 1950. Class 46.

535,287. Concrete Products Machinery—Namely, Concrete Block Making Machines, Concrete Mixers (Batch and Continuous), Concrete Tile and Pipe Making Machines, and Concrete Block Handling Machines. Gene Olsen Corporation, Adrian, Mich.
Filed Jan. 27, 1949, Serial No. 572,915. Published Aug. 29, 1950. Class 23.

535,288. Fire Extinguishing Compositions, Insecticides, and Room Deodorants. Bostwick Laboratories, Inc., Bridgeport, Conn.
Filed Feb. 3, 1949, Serial No. 573,227. Published Sept. 19, 1950. Class 6.

535,289. Electric Floor and Table Lamps. Paul C. Calisal, doing business as Calpa Products Company, Philadelphia, Pa.
Filed Feb. 8, 1949, Serial No. 573,471. Published Oct. 10, 1950. Class 21.

535,290. Metal Bromates Sold as Chemical Reagents, Chemical Raw Materials, or Chemical Processing Agents. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Feb. 13, 1949, Serial No. 574,110. Published Sept. 19, 1950. Class 6.

535,291. Candy. Henry Gonzalez, doing business as Paulsom Candies, Woodhaven, N. Y.
Filed Feb. 23, 1949, Serial No. 574,359. Published Aug. 15, 1950. Class 46.

535,292. Wheeled Mechanical Toys, Sand Boxes, Scooters, Coasters, Children's Lawn Swings, Wagons, Sleds, Children's Sidewalk Bikes, Velocipedes, Monkey Bars, and Games Played With Rolling or Movable Pieces. The May Department Stores Company, St. Louis, Mo., doing business as Kaufmann Department Stores, Pittsburgh, Pa.
Filed Feb. 24, 1949, Serial No. 574,438. Published Sept. 12, 1950. Class 22.

535,293. Resorcinol-Formaldehyde Material Used as Adhesives. Koppers Company, Inc., Pittsburgh, Pa.
Filed Feb. 26, 1949, Serial No. 574,583. Published Aug. 15, 1950. Class 5.

535,294. Brackets for Hanging Draperies and the Like. Halbert Lynn White, Kansas City, Mo.
Filed Feb. 28, 1949, Serial No. 574,650. Published Sept. 26, 1950. Class 13.

535,295. Abrading, Grinding, and Lapping Machines and Attachments Therefor, and Labeling Machines. Norton Company, Worcester, Mass.
Filed Mar. 1, 1949, Serial No. 574,723. Published Sept. 12, 1950. Class 23.

535,296. Preparations for Fire Extinguishers; Insecticides; Disinfectants for Household, Industrial and Agricultural Use; Etc. R. M. Hollingshead Corporation, Camden, N. J.
Filed Mar. 2, 1949, Serial No. 574,773. Published Sept. 19, 1950. Class 6.

535,297. Detergent for General Cleaning Purposes. Armour and Company, Chicago, Ill.
Filed Mar. 3, 1949, Serial No. 574,807. Published Sept. 12, 1950. Class 52.

535,298. Wine. The Brotherhood Corporation, New York, N. Y.
Filed Mar. 3, 1949, Serial No. 574,817. Published Sept. 12, 1950. Class 47.

535,299. Canned Fruits, Canned Vegetables, Canned Fish, and Canned Shrimp. Carpenter Cook Company, Menominee, Mich.
Filed Mar. 23, 1949, Serial No. 575,886. Published Aug. 15, 1950. Class 46.

535,300. Cigars, Cigarettes, Smoking Tobaccos, Chewing Tobaccos, and Snuffs. Charles Odence Company, Boston, Mass.
Filed Mar. 23, 1949, Serial No. 575,920. Published Sept. 26, 1950. Class 17.

535,301. Pyrophoric Cigarette Lighters. Richard Spencer, Chicago, Ill.
Filed Mar. 24, 1949, Serial No. 576,021. Published Oct. 10, 1950. Class 8.

535,302. Piece Goods, Table Cloths, Table Napkins, Tray Cloths, Etc. William Ewart & Son Limited, Belfast, Northern Ireland.
Filed Mar. 30, 1949, Serial No. 576,322. Published Sept. 19, 1950. Class 42.

535,303. Archery Bows. Park Tool & Die Co., Jackson, Mich.
Filed Mar. 30, 1949, Serial No. 577,009. Published Sept. 19, 1950. Class 22.

535,304. Watches. Chalet Swiss Watch & Jewelry Company, New York, N. Y.
Filed Apr. 13, 1949, Serial No. 577,039. Published Oct. 3, 1950. Class 27.

535,305. Radio Antenna. Motorola, Inc., Chicago, Ill.
Filed Apr. 13, 1949, Serial No. 577,065. Published Oct. 10, 1950. Class 21.

535,306. Dehydrated Cow Manure, a Biological, Physical, and Organic Soil Improver. Walker-Gordon Laboratory Company, Plainsboro, N. J.
Filed Apr. 13, 1949, Serial No. 577,085. Published Oct. 3, 1950. Class 10.

535,307. Paper Napkins. Fort Howard Paper Company, Green Bay, Wis.
Filed Apr. 20, 1949, Serial No. 577,428. Published Oct. 3, 1950. Class 37.

535,308. Corrugated Paper. The Hinde & Dauch Paper Company, Sandusky, Ohio.
Filed Apr. 22, 1949, Serial No. 577,531. Published Oct. 3, 1950. Class 37.

535,309. Electrical Sleevings Formed From Textile Fiber for Insulation. Providence Braid Company, Pawtucket, R. I.
Filed Apr. 23, 1949, Serial No. 577,591. Published Oct. 10, 1950. Class 21.

535,310. Fertilizers. Tennessee Corporation, New York, N. Y.
Filed Apr. 23, 1949, Serial No. 577,621. Published Oct. 3, 1950. Class 10.

535,311. Pressure Type Filters for Clarifying Liquids. Bowser, Inc., Fort Wayne, Ind.
Filed Apr. 29, 1949, Serial No. 577,938. Published Sept. 19, 1950. Class 31.

535,312. Highly Albuminous Non-Fat Dried Milk Solids Used as a Binder in Connection With the Manufacture of Meat Products. First Spice Mixing Company, Inc., New York, N. Y.
Filed May 11, 1949, Serial No. 578,579. Published Aug. 8, 1950. Class 46.

535,313. Educational Toy for Teaching Arithmetic Consisting of a Plurality of Denominational Pegs With Counter Disks. Alfred Hooper, Dorset, Vt.
Filed May 11, 1949, Serial No. 578,594. Published Sept. 12, 1950. Class 22.

535,314. Soap and Detergent Used as a Deodorant Cleanser. Emil C. Horn, Milwaukee, Wis.
Filed May 19, 1949, Serial No. 579,101. Published Sept. 19, 1950. Class 52.

535,315. Medicinal Preparation for Treating Athlete's Foot and Other Fungus Infections Common to the Feet and Hands. T. F. Richason, doing business as Madison Pharmacal Co., Anderson, Ind.
Filed May 19, 1949, Serial No. 579,134. Published Sept. 12, 1950. Class 18.

535,316. Popcorn in the Natural State for Use in Making Confections. Glen A. Beard, doing business as Glen A. Beard Popcorn Company, Plainview, Tex.
Filed May 20, 1949, Serial No. 579,164. Published Aug. 15, 1950. Class 46.

535,317. Revolvers, Pistols, Rifles, and Shotguns. Harrington & Richardson Arms Company, Worcester, Mass.
Filed May 23, 1949, Serial No. 579,370. Published Sept. 19, 1950. Class 9.

535,318. Toilet Preparations, Perfumery, and Cosmetics—Namely, Perfume, Toilet Waters, Lipsticks, Face Powders, Toilet Creams, and Rouge. Les Parfums de Dana, Inc., New York, N. Y.
Filed June 2, 1949, Serial No. 579,875. Published Aug. 29, 1950. Class 51.

535,319. Rayon Gabardine Piece Goods, Gray Finished or Otherwise Processed. Greenwood Mills, Inc., New York, N. Y.
Filed June 3, 1949, Serial No. 579,929. Published Sept. 19, 1950. Class 42.

535,320. Alcoholic Cordials, Alcoholic Liqueurs, and Flavored Gins, Whiskey, Brandy, Flavored Brandies, Gins, Rum, and Alcoholic Cocktails. Popper-Morson Corp., Jersey City and Newark, N. J., and New York, N. Y., assignor to Popper-Morson Company, New York, N. Y.
Filed June 3, 1949, Serial No. 579,942. Published Sept. 19, 1950. Class 49.

535,321. Dish Cloths. Granite Looms, Inc., Fall River, Mass.
Filed June 7, 1949, Serial No. 580,060. Published Sept. 19, 1950. Class 42.

535,322. Laminated Paper in Sheet or Roll Form. Westfield River Paper Co., Inc., Russell, Mass.
Filed June 7, 1949, Serial No. 580,110. Published Sept. 5, 1950. Class 37.

535,323. Woolen and Worsted Textile Fabrics in the Piece. William A. Landry, doing business as W. A. Landry, New York, N. Y.
Filed June 10, 1949, Serial No. 580,248. Published Sept. 19, 1950. Class 42.

535,324. Cam Shaft Bearings. Dura-Bond Bearing Company, Palo Alto, Calif.
Filed June 13, 1949, Serial No. 580,355. Published Aug. 29, 1950. Class 23.

535,325. Cleaning, Cleansing, and Detergent Chemical Compounds in Liquid, Powder, and/or Paste Form of General Utility. Ciba Limited, Basel, Switzerland.
Filed June 23, 1949, Serial No. 580,923. Published Sept. 19, 1950. Class 52.

535,326. Electric Motors. Howell Electric Motors Company, Howell, Mich.
Filed June 27, 1949, Serial No. 581,131. Published Oct. 10, 1950. Class 21.

535,327. Canned Minestrone Soup. Budrell Packers, Inc., Everett, Mass.
Filed June 30, 1949, Serial No. 581,316. Published Oct. 10, 1950. Class 46.

535,328. Fountain Pens. Universal Fountain Pen & Pencil Co., New York, N. Y., assignor to Universal Fountain Pen & Pencil Co., Inc., New York, N. Y., a corporation of New York.
Filed July 2, 1949, Serial No. 581,509. Published Sept. 5, 1950. Class 37.

535,329. Fountain Pens. Universal Fountain Pen & Pencil Co., New York, N. Y., assignor to Universal Fountain Pen & Pencil Co., Inc., New York, N. Y., a corporation of New York.
Filed July 2, 1949, Serial No. 581,510. Published Sept. 5, 1950. Class 37.

535,330. Butter and Ice Cream. Golden State Company, Ltd., San Francisco, Calif.
Filed July 12, 1949, Serial No. 581,808. Published Aug. 8, 1950. Class 46.

535,331. Storage Batteries. Richfield Oil Corporation, Los Angeles, Calif.
Filed July 13, 1949, Serial No. 581,897. Published Oct. 10, 1950. Class 21.

535,332. Upper Leather. Beggs & Cobb, Incorporated, Boston, Mass.
Filed July 14, 1949, Serial No. 581,931. Published July 4, 1950. Class 1.

535,333. Automotive Electrical System Parts—Namely, Distributor Parts, Generator Parts, Starter Parts, Electrical Switches, Magneto Parts, and Ignition Coils. C. E. Niehoff & Co., Chicago, Ill.
Filed July 14, 1949, Serial No. 581,972. Published Sept. 26, 1950. Class 21.

535,334. Lipstick, Face Powder, Perfume, Cologne, and Brilliantine. Consolidated Cosmetics, Chicago, Ill.
Filed July 15, 1949, Serial No. 582,027. Published Aug. 1, 1950. Class 51.

535,335. Washing Machine Soap. Continental Soap Corporation, Chicago, Ill.
Filed July 16, 1949, Serial No. 582,072. Published Sept. 12, 1950. Class 52.

535,336. Beer. Miller Brewing Company, Milwaukee, Wis.
Filed July 16, 1949, Serial No. 582,094. Published Sept. 19, 1950. Class 48.

535,337. Writing Paper, Typewriter Paper, Stencil Sheets, Etc. Kores Carbon Paper & Ribbons Mfg. Corporation, New York, N. Y.
Filed July 20, 1949, Serial No. 582,230. Published Oct. 3, 1950. Class 37.

535,338. Friction Catches and Master Keys. E. H. Tate Company, Boston, Mass.
Filed May 31, 1949, Serial No. 582,373. Published Aug. 29, 1950. Class 25.

535,339. Bracelets, Wrist Watch Bracelets. Bruner-Ritter, Inc., New York, N. Y.
Filed July 23, 1949, Serial No. 582,410. Published Oct. 3, 1950. Class 28.

535,340. Locksets and Keys Therefor. Kwikset Locks, Inc., Anaheim, Calif.
Filed July 25, 1949, Serial No. 582,486. Published Sept. 26, 1950. Class 25.

535,341. Shirts for Under or Outer Wear. Cooper's, Incorporated, Kenosha, Wis.
Filed July 26, 1949, Serial No. 582,520. Published Sept. 5, 1950. Class 39.

535,342. Brandy. De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif.
Filed July 23, 1949, Serial No. 582,548. Published Sept. 12, 1950. Class 49.

535,343. Ice Trays Formed of Moulded Plastic Material. Bridgeport Moulded Products, Inc., Fairfield, Conn.
Filed July 28, 1949, Serial No. 582,596. Published Jan. 3, 1950. Class 31.

535,344. Air Compressors. Gilbert & Barker Manufacturing Company, West Springfield, Mass.
Filed July 28, 1949, Serial No. 582,613. Published Sept. 12, 1950. Class 23.

535,345. Deodorizer Consisting of a Louvered Body Member Having Positioned Therein a Cake of Deodorizing Material and an Electrically Operated Suction Fan. Y & Y Deodorizer Co., Philadelphia, Pa.
Filed July 29, 1949, Serial No. 582,715. Published Sept. 26, 1950. Class 21.

535,346. Paper Towels. Crown Zellerbach Corporation, also doing business as National Paper Products Company, San Francisco, Calif.
Filed July 30, 1949, Serial No. 582,723. Published Sept. 5, 1950. Class 37.

535,347. Flashlights and Dry Cell Batteries. Ray-O-Vac Company, Madison, Wis.
Filed Aug. 2, 1949, Serial No. 582,856. Published Oct. 10, 1950. Class 21.

535,348. Dry Cells for Flashlights and Dry Cell Batteries. Ray-O-Vac Company, Madison, Wis.
Filed Aug. 2, 1949, Serial No. 582,857. Published Oct. 10, 1950. Class 21.

535,349. Dry Cells for Flashlights and Dry Cell Batteries. Ray-O-Vac Company, Madison, Wis.
Filed Aug. 2, 1949, Serial No. 582,858. Published Oct. 10, 1950. Class 21.

535,350. Dry Cells for Flashlights and Dry Cell Batteries. Ray-O-Vac Company, Madison, Wis.
Filed Aug. 2, 1949, Serial No. 582,859. Published Oct. 10, 1950. Class 21.

535,351. Dry Cells for Flashlights and Dry Cell Batteries. Ray-O-Vac Company, Madison, Wis.
Filed Aug. 2, 1949, Serial No. 582,860. Published Oct. 10, 1950. Class 21.

535,352. Ash Trays. Harry D. Miller, Sandwich, Ill.
Filed Aug. 6, 1949, Serial No. 583,104. Published Sept. 19, 1950. Class 8.

535,353. Combined Golf Bag, Cart, and Chair. El Roy L. Payne, Beverly Hills, Calif.
Filed Aug. 6, 1949, Serial No. 583,114. Published Sept. 12, 1950. Class 22.

535,354. Canned Dog and Cat Food Composed of Fresh Meat By-Products, Cracked Hulled Barley, Cracked Wheat, Soybean Meal and Wheat Bran. Acme Packing Company, San Francisco, Calif.
Filed Aug. 8, 1949, Serial No. 583,137. Published Aug. 8, 1950. Class 46.

535,355. Scotch Whiskey. Geeting & Fromm, Inc., Chicago, Ill.
Filed Aug. 10, 1949, Serial No. 583,258. Published Sept. 12, 1950. Class 49.

535,356. Hand-Operated Compression Sprayers Used for Spraying Whitewash, Cold Water Paints, Curing Compounds, Insecticides, and DDT Emulsions and Solutions. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Aug. 10, 1949, Serial No. 583,265. Published Aug. 29, 1950. Class 23.

535,357. Ladies' and Men's Berets. Oceana Imports Inc., New York, N. Y.
Filed Aug. 10, 1949, Serial No. 583,280. Published Sept. 5, 1950. Class 39.

535,358. Mechanically Operated Agricultural Implements—Namely, Milking Machines, Etc. Gamble-Skogmo, Inc., Minneapolis, Minn.
Filed Aug. 10, 1949, Serial No. 583,422. Published Sept. 12, 1950. Class 23.

535,359. Binders for Photographic and Similar Material. The American Binder Company, Inc., New York, N. Y.
Filed Aug. 18, 1949, Serial No. 583,633. Published Oct. 3, 1950. Class 37.

535,360. Fresh Sweet Potatoes. Pittsburg Storage Company, Pittsburg, Tex.
Filed Aug. 15, 1949, Serial No. 583,670. Published Aug. 8, 1950. Class 46.

535,361. Electrical Apparatus—Namely, Recessed Lighting Fixtures, Border Lighting Fixtures, and Spot Light Fixtures; Switchboards, Stage Lighting Equipment—Namely, Footlights, Flood Lights, Stage Pockets, Batten Raceways, and Beam Projectors; and Parts Thereof. Associated Lighting Service, San Francisco, Calif.
Filed Aug. 24, 1949, Serial No. 583,906. Published Oct. 10, 1950. Class 21.

535,362. Refrigerators for Use in the Home. Apex Refrigerator Sales Corp., New York, N. Y.
Filed Aug. 25, 1949, Serial No. 583,979. Published Sept. 12, 1950. Class 31.

535,363. Flashlight Cases. Juliana Export and Import Corp., New York, N. Y.
Filed Aug. 27, 1949, Serial No. 584,132. Published Oct. 3, 1950. Class 21.

535,364. Automatic Control Means for Electric Power Supply Units—Namely, D. C. to A. C., A. C. to D. C. Converters and Transformers. Cornell-Dubilier Electric Corporation, South Plainfield, N. J.
Filed Sept. 1, 1949, Serial No. 584,321. Published Sept. 26, 1950. Class 21.

535,365. Liquid Disinfectant Preparation Having Germicidal and Fungicidal Properties, for Use on the Skin of Athletes and Also on the Surfaces of Athletic Apparatus or Equipment. The Cramer Chemical Company, Gardner, Kans.
Filed Sept. 1, 1949, Serial No. 584,323. Published Sept. 12, 1950. Class 18.

535,366. Miniature Farm Implements for Use as Toys. AVCO Manufacturing Corporation, Cincinnati, Ohio.
Filed Sept. 2, 1949, Serial No. 584,382. Published Sept. 12, 1950. Class 22.

535,367. Corn, Bunion, and Callus Pads. The Kendall Company, Boston, Mass.
Filed Sept. 2, 1949, Serial No. 584,403. Published Aug. 15, 1950. Class 44.

535,368. Leather Gloves. Albert Jonquet, Millau (Aveyron), France.
Filed Sept. 3, 1949, Serial No. 584,457. Published Sept. 19, 1950. Class 39.

535,369. Lathe Centers. Lorin F. Treichler, North Plainfield, N. J.
Filed Sept. 6, 1949, Serial No. 584,515. Published Sept. 19, 1950. Class 23.

535,370. Brassières. Miriam Gates Incorporated, Buffalo, N. Y.
Filed Sept. 9, 1949, Serial No. 584,616. Published Oct. 10, 1950. Class 39.

535,371. Non-Alcoholic Maltless Beverages in the Nature of Soft Drinks. Big Top Beverages, Inc., Dallas, Tex.
Filed Sept. 16, 1949, Serial No. 584,891. Published Aug. 22, 1950. Class 45.

535,372. Combination Toy Savings Bank and Action Toy. Crest Specialties, Chicago, Ill.
Filed Sept. 16, 1949, Serial No. 584,895. Published Sept. 19, 1950. Class 22.

535,373. Paper Used in Making Laundry and Dry Cleaning Tags. Shapiro Paper Corporation, New York, N. Y.
Filed Sept. 16, 1949, Serial No. 584,926. Published Sept. 5, 1950. Class 37.

535,374. Chemical Test Set for Determining Pregnancy by Means of a Series of Chemical Reagents Added to the Urine. Westerfield Pharmacal Co. Inc., Dayton, Ohio.
Filed Sept. 16, 1949, Serial No. 584,938. Published Aug. 15, 1950. Class 44.

535,375. Vaginal Douche Syringe. Mam-Zelle Corporation, Gardena, Calif.
Filed Aug. 23, 1949, Serial No. 584,952. Published Aug. 15, 1950. Class 44.

535,376. Pearl Necklaces, Pearl Earrings, Pearl Bracelets, Strings of Pearls, All Pearl Jewelry for Personal Wear and Adornment Not Including Watches. Weinreich Brothers Company, New York, N. Y.
Filed Sept. 17, 1949, Serial No. 585,003. Published Oct. 10, 1950. Class 28.

535,377. Ice Trays Formed of Moulded Plastic Material. Bridgeport Moulded Products, Inc., Fairfield, Conn.
Filed July 28, 1949, Serial No. 585,041. Published Jan. 3, 1950. Class 31.

535,378. Fibrous Absorbent Protective Underpads for Dressing Uses in Medicine and Surgery. Johnson & Johnson, New Brunswick, N. J.
Filed Sept. 21, 1949, Serial No. 585,123. Published Aug. 15, 1950. Class 44.

535,379. Candy. Jamie A. Goggin, doing business as The J. A. Goggin Candy Company, Stillwater, Minn.
Filed Sept. 23, 1949, Serial No. 585,224. Published July 18, 1950. Class 46.

535,380. Toy Dump Truck. Louis Marx & Company, Inc., New York, N. Y.
Filed Sept. 24, 1949, Serial No. 585,291. Published Sept. 12, 1950. Class 22.

535,381. Fresh Vegetables and Fresh Melons. McDonald Vegetable Company, Glendale, Ariz.
Filed Sept. 24, 1949, Serial No. 585,292. Published Aug. 8, 1950. Class 46.

535,382. Note Paper. Abraham S. Cooper, New York, N. Y.
Filed Sept. 30, 1948, Serial No. 585,569. Published Sept. 19, 1950. Class 37.

535,383. Non-Alcoholic, Maltless Soft Drinks and Syrups, Concentrates, and Compounds for Making the Same. Orange-Crush Company, Chicago, Ill.
Filed Oct. 1, 1949, Serial No. 585,680. Published Sept. 26, 1950. Class 45.

535,384. Men's Hats. The Frank H. Lee Company, Danbury, Conn.
Filed Oct. 4, 1949, Serial No. 585,755. Published Sept. 5, 1950. Class 39.

535,385. Ale. Kuebler Brewing Co., Inc., Easton, Pa.
Filed Oct. 5, 1949, Serial No. 585,800. Published Sept. 26, 1950. Class 48.

535,386. Electric Phonograph Pickups. Lindberg Instrument Co., Berkeley, Calif.
Filed Oct. 5, 1949, Serial No. 585,801. Published Sept. 26, 1950. Class 21.

535,387. Laundry Pad Used in Laundry Power Pressing Machines. Arrow Manufacturing Company, Kansas City, Mo.
Filed Oct. 6, 1949, Serial No. 585,823. Published Oct. 10, 1950. Class 24.

535,388. Men's, Women's, and Children's Neckties. Dimple Tie Corporation, New York, N. Y.
Filed Oct. 6, 1949, Serial No. 585,835. Published Sept. 5, 1950. Class 39.

535,389. Men's Sport and Dress Shirts and Sport Jackets. Mal Marshall, Inc., Miami, Fla.
Filed Oct. 6, 1949, Serial No. 585,854. Published Sept. 5, 1950. Class 39.

535,390. Gloves Made From Rubber or Rubber-Like Material, and Suitable for Household and Light Industrial Use. The Pioneer Rubber Company, Willard, Ohio.
Filed Oct. 6, 1949, Serial No. 585,859. Published Oct. 10, 1950. Class 39.

535,391. Antacid in Tablet and Powder Form. United American Company, also doing business as United American Co., Inc., Louisville, Ky., and New York, N. Y., assignor to Drug Laboratories, Inc., New York, N. Y., a corporation of Delaware.
Filed Oct. 7, 1949, Serial No. 585,962. Published Sept. 12, 1950. Class 18.

535,392. Antacid in Tablet and Powder Form. United American Company, also doing business as United American Co., Inc., Louisville, Ky., and New York, N. Y., assignor to Drug Laboratories, Inc., New York, N. Y., a corporation of Delaware.
Filed Oct. 7, 1949, Serial No. 585,963. Published Sept. 12, 1950. Class 18.

535,393. Pin-Up Electric Wall Lamps. Hunter Douglas Corporation, New York, N. Y.
Filed Oct. 11, 1949, Serial No. 586,085. Published Oct. 10, 1950. Class 21.

535,394. Finger Rings. A. Hirsch Company, doing business as Hirsch & Oppenheimer, Chicago, Ill.
Filed Oct. 12, 1949, Serial No. 586,163. Published Oct. 10, 1950. Class 28.

535,395. Capillary Tube and Strainer Combination for Refrigerators. Wagner Tool & Supply Corp., Long Island City, N. Y.
Filed Oct. 12, 1949, Serial No. 586,212. Published Sept. 19, 1950. Class 31.

535,396. Radio Receiving Sets, Radio Tubes, and Electric Vacuum Cleaners. Gamble-Skogmo, Inc., Minneapolis, Minn.
Filed Oct. 8, 1949, Serial No. 586,225. Published Sept. 26, 1950. Class 21.

535,397. Termite Solutions and Other Insecticides. Chemtox Company, Ltd., Honolulu, Territory of Hawaii.
Filed Oct. 13, 1949, Serial No. 586,235. Published Sept. 19, 1950. Class 6.

535,398. Loose-Leaf Notebook Fillers, Composition Books, Wire Bound Books, Etc. Montag Brothers, Inc., Atlanta, Ga.
Filed Oct. 13, 1949, Serial No. 586,250. Published Sept. 26, 1950. Class 37.

535,399. Preparation of Procaine Penicillin G in Aqueous Suspension. Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J.
Filed Oct. 13, 1949, Serial No. 586,255. Published Sept. 12, 1950. Class 18.

535,400. Toilet Paper. Leonard Tissue Corp., Cambridge, Mass.
Filed Oct. 14, 1949, Serial No. 586,291. Published Sept. 5, 1950. Class 37.

535,401. Bathing Caps. Pretty Products, Inc., Coshocton, Ohio.
Filed Oct. 14, 1949, Serial No. 586,309. Published Sept. 12, 1950. Class 39.

535,402. Medicinal Preparation for the Alleviation of Coughs. The Upjohn Company, Kalamazoo, Mich.
Filed Oct. 15, 1949, Serial No. 586,383. Published Sept. 12, 1950. Class 18.

535,403. Milk Coolers. Wilson Cabinet Co., Inc., Smyrna, Del., now by merger and change of name Wilson Refrigeration, Inc., a corporation of Delaware.
Filed Oct. 17, 1949, Serial No. 586,448. Published Aug. 15, 1950. Class 31.

535,404. Children's Wearing Apparel—Namely, Suits; Etc. Aldens, Inc., Chicago, Ill.
Filed Oct. 18, 1949, Serial No. 586,453. Published Sept. 12, 1950. Class 39.

535,405. Earrings. Hattie Carnegie, Inc., New York, N. Y.
Filed Oct. 18, 1949, Serial No. 586,467. Published Oct. 3, 1950. Class 28.

535,406. Agricultural Fertilizer. Lyons Fertilizer Company, Tampa, Fla.
Filed Nov. 8, 1949, Serial No. 586,557. Published Oct. 3, 1950. Class 10.

535,407. Air Blast Machine Used as a Tractor Attachment. A. R. Nisbet & Sons, San Angelo, Tex.
Filed Oct. 21, 1949, Serial No. 586,649. Published Sept. 12, 1950. Class 23.

535,408. Hats and Caps for Men, Women, and Children. John B. Stetson Company, Philadelphia, Pa.
Filed Oct. 22, 1949, Serial No. 586,711. Published Sept. 12, 1950. Class 39.

535,409. Live Bait Buckets. The Tesco Corporation, Cleveland, Ohio.
Filed Oct. 27, 1949, Serial No. 586,946. Published Sept. 19, 1950. Class 22.

535,410. Hosiery for Men, Women, and Children. Textile Distributors, Inc., Thomasville, N. C.
Filed Oct. 27, 1949, Serial No. 586,947. Published Sept. 26, 1950. Class 39.

535,411. Women's and Children's Blouses and Skirts and Knitted Clothing—Namely, Knitted Jumpers, Cardigans, Blouses, Dresses, and Skirts. Murdoch, Hillson Limited, Glasgow, Scotland.
Filed Oct. 28, 1949, Serial No. 586,984. Published Oct. 10, 1950. Class 39.

535,412. Cleansing Tissue. Butler Brothers, Chicago, Ill., assignor to The Procter & Gamble Company, Cincinnati, Ohio.
Filed Oct. 29, 1949, Serial No. 587,013. Published Sept. 5, 1950. Class 37.

535,413. Electric Floor and Table Lamps. Clover Lamp Co., Inc., Philadelphia, Pa.
Filed Oct. 31, 1949, Serial No. 587,074. Published Sept. 26, 1950. Class 21.

535,414. Cigarette Holders. Klik Promotions, Inc., New York, N. Y.
Filed Nov. 3, 1949, Serial No. 587,269. Published Sept. 19, 1950. Class 8.

535,415. Electric Flatiron Cord Holders. Leonard Johnson, Chicago, Ill.
Filed Nov. 7, 1949, Serial No. 587,440. Published Oct. 10, 1950. Class 21.

535,416. Finger Rings. J. R. Wood & Sons, Inc., New York, N. Y.
Filed Nov. 8, 1949, Serial No. 587,517. Published Oct. 3, 1950. Class 28.

535,417. Ladies' and Children's Chemises, Princess Slips, Bloomers, Dresses, Step-Ins, Nightgowns, Pajamas, and Step-In Drawers of a Textile Fabric. I. Schneierson & Sons, Inc., New York, N. Y.
Filed Nov. 10, 1949, Serial No. 587,655. Published Oct. 10, 1950. Class 39.

535,418. Silverplated Flat Tableware. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed Nov. 14, 1949, Serial No. 587,741. Published Oct. 3, 1950. Class 28.

535,419. Air Purifying, Deodorizing, Medicating, or Perfuming Cakes or Tablets for Use in a Vaporizing Device. Costello-Mausure, Inc., Detroit, Mich.
Filed Nov. 12, 1949, Serial No. 587,839. Published Sept. 26, 1950. Class 6.

535,420. Washing Machines, Driers, Ironers and Wringers, and Combinations of the Same, and Parts Thereof. Easy Washing Machine Corporation, Syracuse, N. Y.
Filed Nov. 16, 1949, Serial No. 587,856. Published Oct. 10, 1950. Class 24.

535,421. Scale Tickets Used To Indicate the Weight of Livestock. Printing Supply Corporation, Morristown, Tenn.
Filed Nov. 16, 1949, Serial No. 587,912. Published Sept. 5, 1950. Class 37.

535,422. Beer and Ale. F. W. Cook Company, Inc., Evansville, Ind.
Filed Nov. 18, 1949, Serial No. 588,006. Published Oct. 10, 1950. Class 48.

535,423. Paper Products—Namely, Facial Tissues and Napkins. Northern Paper Mills, Green Bay, Wis.
Filed Nov. 18, 1949, Serial No. 588,041. Published Sept. 12, 1950. Class 37.

535,424. Writing Paper and Envelopes. Old Colony Envelope Company, Westfield, Mass.
Filed Nov. 22, 1949, Serial No. 588,181. Published Sept. 5, 1950. Class 37.

535,425. Writing Paper and Envelopes. Old Colony Envelope Company, Westfield, Mass.
Filed Nov. 22, 1949, Serial No. 588,182. Published Sept. 5, 1950. Class 37.

535,426. Writing Paper and Envelopes. Old Colony Envelope Company, Westfield, Mass.
Filed Nov. 22, 1949, Serial No. 588,183. Published Sept. 5, 1950. Class 37.

535,427. Toilet Tissue and Paper Towels. The Diamond Match Company, New York, N. Y.
Filed Nov. 25, 1949, Serial No. 588,281. Published Sept. 26, 1950. Class 37.

535,428. Laundry Presses. The Unipress Company, Incorporated, Minneapolis, Minn.
Filed Nov. 28, 1949, Serial No. 588,464. Published Oct. 10, 1950. Class 24.

535,429. Fertilizer. Grocery Store Products Co., New York, N. Y.
Filed Nov. 29, 1949, Serial No. 588,487. Published Oct. 3, 1950. Class 10.

535,430. Table Knives, Forks, and Spoons, Sugar Dredgers, Tumbler Cups, Tea Sets, Coffee Sets, and Sugar and Cream Sets, All of Which Are Made of Sterling Silver. Marshall Field & Company, Chicago, Ill.
Filed Nov. 29, 1949, Serial No. 588,501. Published Oct. 3, 1950. Class 28.

535,431. Milk Cooler—Namely, a Machine for Cooling Milk Contained in a Milk Can. Globe Milker Company, Des Moines, Iowa.
Filed Nov. 30, 1949, Serial No. 588,576. Published Sept. 19, 1950. Class 31.

535,432. Wines. The Madera Bonded Wine and Liquor Company, doing business as Wine Associates, Baltimore, Md.
Filed Dec. 2, 1949, Serial No. 588,696. Published Sept. 26, 1950. Class 47.

535,433. Base Exchange Water Treatment Apparatus, Water Filters, and Parts Thereof. Red Jacket Manufacturing Co., Davenport, Iowa.
Filed Dec. 2, 1949, Serial No. 588,708. Published Sept. 19, 1950. Class 31.

535,434. Light Sensitive Cells. Weston Electrical Instrument Corporation, Newark, N. J.
Filed Dec. 2, 1949, Serial No. 588,722. Published Sept. 26, 1950. Class 21.

535,435. Maltless Soft Drinks. R. C. Bellows, doing business as The Mineral Springs Bottling Company, Humboldt, Iowa.
Filed Dec. 3, 1949, Serial No. 588,735. Published Oct. 10, 1950. Class 45.

535,436. Pen Points for Fountain Pens. Radiant Pen Corp., New York, N. Y.
Filed Dec. 3, 1949, Serial No. 588,770. Published Oct. 3, 1950. Class 37.

535,437. Decorative Inserts for Jewelry. Rochester Button Company, Rochester, N. Y.
Filed Dec. 5, 1949, Serial No. 588,812. Published Oct. 10, 1950. Class 28.

535,438. Decorative Inserts for Jewelry. Rochester Button Company, Rochester, N. Y.
Filed Dec. 5, 1949, Serial No. 588,813. Published Oct. 10, 1950. Class 28.

535,439. Bond, Ledger, Mimeograph, and Duplicator Paper Sheets. Monadnock Paper Mills, Inc., Boston, Mass.
Filed Dec. 6, 1949, Serial No. 588,875. Published Sept. 19, 1950. Class 37.

535,440. Hand and Motor Driven Non-Commercial Ice Cream Freezers. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 6, 1949, Serial No. 588,898. Published Sept. 19, 1950. Class 31.

535,441. Butylated Hydroxyanisole. Universal Oil Products Company, Chicago, Ill.
Filed Dec. 7, 1949, Serial No. 588,983. Published Sept. 19, 1950. Class 6.

535,442. Photo-Electric Cells, Cathode Ray Tubes, and Radio and Television Receiving and Transmitting Apparatus. Cinema-Television Limited, Lower Sydenham, London, England.
Filed Nov. 8, 1949, Serial No. 588,995. Published Sept. 26, 1950. Class 21.

535,443. Ash Trays. Anchor Hocking Glass Corporation, Lancaster, Ohio.
Filed Dec. 8, 1949, Serial No. 589,000. Published Oct. 10, 1950. Class 8.

535,444. Halogenated Organic Compounds for General Use in the Industrial Arts. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 8, 1949, Serial No. 589,031. Published Sept. 19, 1950. Class 6.

535,445. Pearl Jewelry—Namely, Necklaces, Bracelets, Finger Rings, Jewelry Clips, Brooches, and Earrings. Joseph H. Meyer Bros., Brooklyn, N. Y.
Filed Dec. 10, 1949, Serial No. 589,163. Published Oct. 10, 1950. Class 28.

535,446. Matches. The American Tobacco Company, New York, N. Y.
Filed Dec. 12, 1949, Serial No. 589,187. Published Sept. 26, 1950. Class 9.

535,447. Emulsifiable Concentrate of Chlordane. E. J. Wolf, doing business under the name and style of U. S. Insecticides Company, Seattle, Wash.
Filed Dec. 13, 1949, Serial No. 589,290. Published Sept. 19, 1950. Class 6.

535,448. Price Marking Labels. The Monarch Marking System Company, Dayton, Ohio.
Filed Dec. 9, 1949, Serial No. 589,359. Published Sept. 19, 1950. Class 37.

535,449. Sake. Kotake Company, Limited, Honolulu, Territory of Hawaii.
Filed Dec. 16, 1949, Serial No. 589,452. Published Sept. 12, 1950. Class 47.

535,450. Silverplated Flat and Hollow Tableware. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed Dec. 17, 1949, Serial No. 589,523. Published Oct. 10, 1950. Class 28.

535,451. Ash Trays Made of Glass. Imperial Glass Corporation, Bellaire, Ohio.
Filed Dec. 19, 1949, Serial No. 589,576. Published Sept. 19, 1950. Class 8.

535,452. Paper Napkins, Paper Towels, Waxed Paper, and Toilet Tissue. The Diamond Match Company, New York, N. Y.
Filed Dec. 20, 1949, Serial No. 589,651. Published Sept. 26, 1950. Class 37.

535,453. Corrugated Wrapping Paper. Sherman Paper Products Corporation, Newton, Mass.
Filed Dec. 21, 1949, Serial No. 589,747. Published Sept. 26, 1950. Class 37.

535,454. Electrically Operated Dish Washers. Cory Corporation, Chicago, Ill.
Filed Dec. 22, 1949, Serial No. 589,772. Published Sept. 26, 1950. Class 21.

535,455. Electric Clocks. Hammond Instrument Company, Chicago, Ill.
Filed Dec. 30, 1949, Serial No. 590,156. Published Oct. 3, 1950. Class 27.

535,456. Piece Goods of Cotton, Rayon, Wool, and Synthetic Fibres. Reeves Brothers, Inc., New York, N. Y.
Filed Jan. 14, 1950, Serial No. 590,913. Published Aug. 29, 1950. Class 42.

535,457. Combination Bar Utensil Embracing a Tool Capable of Being Used as a Pick, Cracker, and Opener. G. M. Co Manufacturing Inc., Long Island City, N. Y.
Filed Jan. 17, 1950, Serial No. 590,975. Published Aug. 22, 1950. Class 23.

535,458. Chocolate Malt Flavored Milk. Maple Island Farm, Inc., Stillwater, Minn., now by change of name Maple Island, Inc.
Filed Jan. 20, 1950, Serial No. 591,177. Published Oct. 10, 1950. Class 46.

535,459. Fertilizer. Atlas Chemical Company, San Francisco, Calif.
Filed Jan. 24, 1950, Serial No. 591,342. Published Sept. 26, 1950. Class 10.

535,460. Girdles. Lily of France, Inc., New York, N. Y.
Filed Jan. 25, 1950, Serial No. 591,424. Published Oct. 3, 1950. Class 39.

535,461. Ladies' Cotton Work Gloves. Good Luck Glove Company, Carbondale, Ill.
Filed Feb. 24, 1950, Serial No. 592,996. Published Oct. 10, 1950. Class 39.

535,462. Duplicating, "Mimeographing" and Similar Machines Reproducing Typed, Drawn or Lettered Matter Through the Medium of the Spirit and Offset Reproducing Processes. Goldsmith Bros., New York, N. Y.
Filed May 11, 1950, Serial No. 597,271. Published Sept. 19, 1950. Class 23.

535,463. Pistols and Parts Therefor. The High Standard Manufacturing Corporation, Hamden, Conn.
Filed July 20, 1950, Serial No. 600,246. Published Sept. 12, 1950. Class 9.

Service Marks

535,464. Restaurant Services. Pick Hotels Corporation, Chicago, Ill.
Filed Oct. 14, 1947, Serial No. 537,822. Published Sept. 19, 1950. Class 100.

535,465. Restaurant Services. Pick Hotels Corporation, Chicago, Ill.
Filed Oct. 14, 1947, Serial No. 537,823. Published Sept. 19, 1950. Class 100.

535,466. Underwriting of Life Insurance. Reliance Life Insurance Company of Pittsburgh, Pittsburgh, Pa.
Filed Nov. 12, 1947, Serial No. 540,876. Published Oct. 3, 1950. Class 102.

535,467. Surveys of Merchandise Methods, Sales Personnel Analysis, and Investigation of Employee Conduct to Detect Irregularities. Merit Protective Service, Inc. of Illinois, Chicago, Ill.
Filed June 11, 1948, Serial No. 559,038. Published Sept. 26, 1950. Class 101.

535,468. Informational Services to the Southern Pine Lumber Industry, Etc. Southern Pine Association, New Orleans, La.
Filed July 27, 1948, Serial No. 562,281. Published Sept. 26, 1950. Class 101.

535,469. Central Billing and Collection Service. The Boyd System, Incorporated, Princeton, N. J.
Filed Jan. 13, 1949, Serial No. 572,081. Published Sept. 26, 1950. Class 101.

535,470. Book Binding. The Boehm Bindery Company, Milwaukee, Wis.
Filed Apr. 7, 1949, Serial No. 576,740. Published Sept. 26, 1950. Class 106.

535,471. Rendering Elastic Yarn Goods Satisfactory for Swim Suits by Special Process Which Preserves the Elasticity of the Rubber and Precludes Excessive Stretching and Shrinking. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y.
Filed Sept. 23, 1949, Serial No. 585,213. Published Sept. 26, 1950, Serial No. 585,213. Published Sept. 26, 1950. Class 106.

535,472. Structural Restoration and Waterproofing of Masonry Walls. William H. Walter, doing business as The Trisco Waterproofing Company, Lima, Ohio.
Filed Oct. 8, 1949, Serial No. 586,026. Published Oct. 3, 1950. Class 103.

Certification Mark

535,473. All Bakery Goods—Namely, Bread, Biscuits, Crackers, Cakes, Cookies, Pies, Rolls; Confectionery Products—Namely, Candy; and Paste Products—Namely, Macaroni and Spaghetti. Bakery and Confectionery Workers' International Union of America, Chicago, Ill.
Filed Sept. 29, 1947, Serial No. 536,036. Published Aug. 15, 1950. Class 46.

Collective Mark

535,474. Electrical Cords, Wires, and Cables, Spark Plug Wires, Primary Wires, Lighting Wires, Battery Cables, Etc. National Automotive Parts Association, Detroit, Mich.
Filed Feb. 24, 1949, Serial No. 574,452. Published Oct. 10, 1950. Class 21.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

535,475. (Class 44. Dental, Medical, and Surgical Appliances.) Parke, Davis & Company, Detroit, Mich. Original filed, act of 1905, May 5, 1947; amended to application under act of 1946, Supplemental Register, Feb. 15, 1949, Serial No. 521,923.

READI-CAST

For Bandage Gauze Impregnated With Powdered Plaster of Paris.
Claims use since Apr. 4, 1947.

535,476. (Class 44. Dental, Medical, and Surgical Appliances.) J. G. Ingram & Son Limited, London, England. Filed Dec. 31, 1947, Serial No. 545,854.

Ingrams LONDON.

Applicant claims ownership of British Registrations Nos. B. 409,358, dated Nov. 20, 1920, and B. 413,823, dated Mar. 30, 1921.

For Feeding Bottle Teats, Teething Pads, Teething Soothers and Teething Rings, Inhaler Bags, Umbilical Belts, Tourniquets, Trachea Tubes, Surgical Trusses, India-Rubber Urinals, Valgus Pads, Wristlets, Powder Blowers, Bandages, Breast Bottles and Rellevers, Breast Shields, Count Drop Tubes, Crutch Boots, Cupping Glasses, Dilator Bags, Douches, Nasal Syringes, Nasal Plugs, Ear Plugs, Rectal Enemas, Empyema Tubes, Syringes, Rubber Plugs, Evacuator Bottles, Douche Tubing, Finger Stalls, Thumb Stalls, X-Ray Protective Gloves and Sheeting, Ice Bags and Caps, Mouthpieces for Inhalers, Perineal Belts, Pessaries, Prolapsus Belts, Rubber Spray Balls, Rubber Bulbs and Rubber Bellows, All Being Instruments, Apparatus and Contrivances Not Medicated, of India-Rubber, for Surgical or Curative Purposes or in Relation to the Health of Men or Animals, and Hot-Water Bottles, Rubber Water Pillows, Air Cushions for the Support of the Human Body, Rubber Hot-Water Beds, Gloves for Surgical Purposes and for Use When Handling Electrical Medical Apparatus, All Being India-Rubber Goods.

535,477. (Class 52. Detergents and Soaps.) Doyle Ingram, doing business as Car Washing Supplies Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 3, 1948; amended to application, Supplemental Register, Nov. 26, 1948, Serial No. 553,778.

The drawing is lined for color, however color is disclaimed.

For Washing Compound Adapted for Use in Washing Dishes and the Like, Chrome and Metal Cleaner, White Wall Tire Cleaner, Tar Solvent, Dry Cleaner and Spot Remover.
Claims use since Aug. 12, 1946.

535,478. (Class 6. Chemicals and Chemical Compositions.) Industrial Paint Manufacturing Company, Birmingham, Ala. Original filed, act of 1946, Principal Register, Sept. 13, 1948; amended to application, Supplemental Register, Oct. 13, 1949, Serial No. 565,055.

ROT NOT

For Liquid Preservative—Namely, a Chemical Compound for Use on Wood, Canvas, and Rope to Prevent Rot, Mildew or Decay.
Claims use since Aug. 1, 1947.

535,479. (Class 4. Abrasives and Polishing Materials.) The Kiwi Polish Company Proprietary Limited, Richmond, near Melbourne, Victoria, Australia. Original filed, act of 1946, Principal Register, Sept. 15, 1948; amended to application, Supplemental Register, Mar. 16, 1950, Serial No. 565,189.

THEY'RE WELL WORN - BUT THEY'VE WORN WELL

Applicant claims ownership of Registrations Nos. 294,323 and 294,324.

For Polishing Preparations for Boots, Shoes and Leather Goods.
Claims use since Mar. 10, 1949.

535,480. (Class 12. Construction Materials.) The Carter-Waters Corp., Kansas City, Mo. Original filed, act of 1946, Principal Register, Sept. 16, 1948; amended to application, Supplemental Register, Aug. 17, 1950, Serial No. 565,234.

BLOK-MESH

For Welded Wire Reinforcements for Embodying in Concrete or Mortar of Walls of Buildings and the Like.
Claims use since Dec. 31, 1946.

535,481. (Class 51. Cosmetics and Toilet Preparations.) C. I. Rudinger, doing business under the fictitious name and style of Kooltone Mfg. Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, May 31, 1949; amended to application, Supplemental Register, Sept. 21, 1950, Serial No. 579,760.

Kool-Tone

For Soothing Lotion To Be Applied to the Feet and to Tone and Refresh the Skin.
Claims use since May 20, 1949.

535,482. (Class 18. Medicines and Pharmaceutical Preparations.) Mineralac Electric Co., Chicago, Ill. Filed June 28, 1949, Serial No. 581,201.

EDISON OINTMENT

For Medicinal Ointment for the Treatment of Burns and All Inflammatory Conditions of the Skin.
Claims use since Nov. 1, 1898.

535,483. (Class 19. Vehicles.) Bostrom Manufacturing Company, Milwaukee, Wis. Filed Aug. 23, 1949, Serial No. 583,856.

BOSTROM

For Vehicles, and Seat Cushion Especially Adapted for Such Mountings and Suspensions for Use on Trucks and Heavy Earth-Moving Equipment.
Claims use since Dec. 15, 1945.

535,484. (Class 28. Jewelry and Precious-Metal Ware.) Max H. Storch, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 25, 1949; amended to application, Supplemental Register, Oct. 21, 1950, Serial No. 588,328.

Chase
DA VINCI

For Silverplated and Sterling Silver Knives, Forks, Spoons and Other Tableware.
Claims use since Oct. 8, 1949.

535,485. (Class 28. Jewelry and Precious-Metal Ware.) Max H. Storch, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 25, 1949; amended to application, Supplemental Register, Oct. 21, 1950, Serial No. 588,329.

Chase
DANISH ROSE

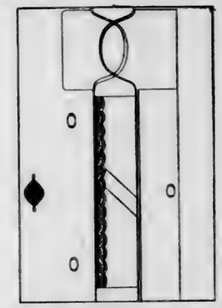
For Silverplated and Sterling Silver Knives, Forks, Spoons and Other Tableware.
Claims use since Oct. 8, 1949.

535,486. (Class 28. Jewelry and Precious-Metal Ware.) Max H. Storch, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 25, 1949; amended to application, Supplemental Register, Oct. 24, 1950, Serial No. 588,331.

Chase
VENETIAN ROSE

For Silverplated and Sterling Silver Knives, Forks, Spoons and Other Tableware.
Claims use since Oct. 8, 1949.

535,487. (Class 46. Foods and Ingredients of Foods.) Bonner Packing Co., Fresno Calif. Filed Feb. 6, 1950, Serial No. 592,013.



For Dried Fruits.
Claims use since June 1, 1948.

535,488. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Lewis-Shepard Products, Inc., Watertown, Mass. Filed Feb. 16, 1950, Serial No. 592,571.

JACKSTACKER

Applicant claims ownership of Registration No. 119,194.
For Materials-Handling Trucks Actuated Horizontally and With Pick-Up, Discharge, Lifting, and Lowering Equipment Utilizing Mounted Power Units.
Claims use since Sept. 16, 1947.

Service Mark

535,489. (Class 100. Miscellaneous.) Schwerin Research Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, May 3, 1948; amended to application, Supplemental Register, Aug. 16, 1949, Serial No. 556,131.

SCHWERIN SYSTEM

For Research Service Devoted to the Testing, Analyzing and Reporting on Audience Reaction to Radio and Television Programs and Commercials; and to Motion Pictures
Claims use since June 18, 1946.

TRADE-MARK REGISTRATIONS RENEWED

79,937. "S" AND DRAWING. Registered Oct. 18, 1910. The Singer Manufacturing Company, New York, N. Y., and Elizabeth, N. J. Re-renewed Oct. 18, 1950, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey. Hand Sewing-Needles. Class 40.

80,004. SEBCO. Registered Oct. 25, 1910. Star Expansion Bolt Company. Re-renewed Oct. 25, 1950, to Star Expansion Bolt Company, New York, N. Y., a corporation of Delaware. Expansion Bolts, Expansion Shields, Bolt and Screw Anchors, Concrete Anchors, Etc. Class 13.

80,236. NATCO. Registered Nov. 22, 1910. National Fire Proofing Company. Re-renewed Nov. 22, 1950, to National Fireproofing Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Structural Blocks and Tiles of Terra-Cotta and Clay. Class 12.

80,446. SEBCO. Registered Dec. 20, 1910. Star Expansion Bolt Company. Re-renewed Dec. 20, 1950, to Star Expansion Bolt Company, New York, N. Y., a corporation of Delaware. Brick and Stone Drills, Pipe Drills, Extension Drills, and Screw Drivers. Class 23.

80,684. SEBCO. Registered Jan. 17, 1911. Star Expansion Bolt Company. Re-renewed Jan. 17, 1951, to Star Expansion Bolt Company, New York, N. Y., a corporation of Delaware. Cable Clamps, Cable Clips, Cable Dogs, Aerial Rings, Bridle Rings, Etc. Class 21.

80,717. THIOCOL. Registered Jan. 24, 1911. The Hoffmann-La Roche Chemical Works, New York, N. Y. Renewed Jan. 24, 1951, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Potassium Guiacol-Sulfonate, a Remedy for Phthisis. Class 18.

80,719. ASTEROL. Registered Jan. 24, 1911. The Hoffmann-La Roche Chemical Works, New York, N. Y. Renewed Jan. 24, 1951, to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. A Product Having Antiseptical Properties. Class 18.

81,180. DAMOSELLE. Registered Mar. 7, 1911. Trippe Barker & Company. Re-renewed Mar. 7, 1951, to William Lind, doing business as William Lind Co., New York, N. Y. Cotton and Linen Piece Goods. Class 42.

268,390. "ADMIRATION SUDAN FABRIQUE" ETC. AND DRAWING. Registered Mar. 11, 1930. P. Feinstein & Sons. Renewed Mar. 11, 1950, to P. Feinstein & Sons, New York, N. Y., a partnership. Men's Clothes—Namely, Overcoats. Class 39.

270,186. "CRITERION" AND DESIGN. Registered Apr. 29, 1930. P. Feinstein & Sons. Renewed Apr. 29, 1950, to P. Feinstein & Sons, New York, N. Y., a partnership. Men's Clothes—Namely, Suits and Overcoats. Class 39.

270,187. LUXURA. Registered Apr. 29, 1930. P. Feinstein & Sons. Renewed Apr. 29, 1950, to P. Feinstein & Sons, New York, N. Y., a partnership. Men's Clothes—Namely, Linings for Suits and Overcoats. Class 39.

270,232. SPECIA. Registered Apr. 29, 1930. Société Parisienne d'Expansion Chimique, Paris, France, a societe anonyme organized under the laws of France. Renewed Apr. 29, 1950. Chemical Substances Used for Acetyl Salicyclic Acid, Pyrazolone, Etc. Class 18.

272,928. VORTOX. Registered July 15, 1930. Vortox Manufacturing Company. Renewed July 15, 1950, to H. H. Garner, do'ng business as Vortox Company, Claremont, Calif. Air Cleaners and Crank-Case Breathers for Internal-Combustion Engines. Class 23.

274,900. ZENITA. Registered Sept. 9, 1930. Forstmann & Huffmann Company. Renewed Sept. 9, 1950, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

275,114. STONEMO. Registered Sept. 16, 1930. Stone Mountain Grit Company, Inc. Renewed Sept. 16, 1950, to Stone Mountain Grit Company, Lithonia, Ga., a firm. Poultry Grit. Class 1.

275,117. "FLORAGREEN" AND DESIGN. Registered Sept. 16, 1930. Florida Greens Corporation, Leesburg, Fla. Renewed Sept. 16, 1950, to Florida Greens Corporation, Okahumpka, Fla., a corporation of Florida. Natural Asparagus Plumosus Sprays and Prepared Natural Plumosus Sprays. Class 1.

275,177. M METAL. Registered Sept. 16, 1930. Meehanite Metal Corporation, Chattanooga, Tenn. Renewed Sept. 16, 1950, to Meehanite Metal Corporation, New Rochelle, N. Y., a corporation of Tennessee. Forgings and Castings of Iron and Iron Alloys. Class 14.

275,837. MOTOROLA. Registered Sept. 30, 1930. Galvin Manufacturing Corporation. Renewed Sept. 30, 1950, to Motorola, Inc., Chicago, Ill., a corporation of Illinois. Radio Receiving Sets and Parts Thereof. Class 21.

276,095. LIGNASAN. Registered Oct. 7, 1930. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Oct. 7, 1950. Disinfectant Useful for Preserving Wood and Controlling the Fungous Growths of Lumber Which Are Commonly Known as Stains, Particularly Blue Stain. Class 6.

276,104. SAVOSS. Registered Oct. 7, 1930. Troy Chemical Co., Inc., Binghamton, N. Y. Renewed Oct. 7, 1950, to The Troy Chemical Co., Inc., New York, N. Y., a corporation of New York. Liniment for the Treatment of Bruises, Sprains, and Injuries Which May be Reached and Treated Externally With a Liquid Medicament. Class 18.

276,261. "ADMIRATION CLOTHES THE NATION" AND REPRESENTATION OF MAP OF U. S. Registered Oct. 14, 1930. P. Feinstein & Sons. Renewed Oct. 14, 1950, to P. Feinstein & Sons, New York, N. Y., a partnership. Men's Clothes—Namely, Overcoats, Topcoats, and Suits. Class 39.

276,473. "THE BROADCASTER" ETC. AND DRAWING. Registered Oct. 21, 1930. McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware. Renewed Oct. 21, 1950. Periodical Publications Relating to the Manufacture, Merchandising, and Use of Automotive Parts and Methods of Installing Them. Class 38.

276,533. REPRESENTATION OF CAMEL AND NEEDLE. Registered Oct. 21, 1930. Henry Wilkes & Co., Limited, Studley, England. Renewed Oct. 21, 1950, to Needle Industries Limited, Birmingham, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Needles for Hand Use, Bodkins, Crochet Hooks, and Pins Not Made of Precious Metal. Class 40.

277,171. LUXOL. Registered Nov. 11, 1930. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Nov. 11, 1950. Dyes and Dyestuffs. Class 6.

277,397. BLAECAN. Registered Nov. 11, 1930. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Nov. 11, 1950. Dyes and Dyestuffs. Class 6.

278,320. NUF SED. Registered Dec. 16, 1930. Newbry & Sons, Talent, Oreg. Renewed Dec. 16, 1950, to Newbry Orchards, Ashland, Oreg., a copartnership. Fresh Deciduous Fruits. Class 46.

278,346. "TRUWEAVE" AND DESIGN. Registered Dec. 16, 1930. Textile Specialty Co., Inc., Greensboro, N. C., a corporation of North Carolina. Renewed Dec. 16, 1950. Loom Reeds. Class 23.

278,390. I R G A. Registered Dec. 16, 1930. Geigy Company, Inc., New York, N. Y., a corporation of New York. Renewed Dec. 16, 1950. Mixtures of Tar, Asphalt, Pitch, Gravel, and Broken Stones for the Construction, Treatment, and Building of Roads. Class 12.

278,477. COLUMBIAN CLASP. Registered Dec. 16, 1930. United States Envelope Company, Springfield, Mass., a corporation of Maine. Renewed Dec. 16, 1950 (Supplemental Register). Merchandise Envelopes. Class 2.

278,814. CORBESTOS. Registered Dec. 30, 1930. Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois. Renewed Dec. 30, 1950. Gaskets. Class 35.

279,066. EVERYBODYS. Registered Jan. 6, 1931. The Styron-Beggs Company, Newark, Ohio, a corporation of Ohio. Renewed Jan. 6, 1951. Bluing and Talcum Powder. Class 51.

279,198. PRESENTATION. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,203. THRIFT. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,204. TOUCHDOWN. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,205. SENIOR. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,206. PROMENADE. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,207. PROFESSIONAL. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,208. CELEBRITY. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,209. AMERICAN BEAUTY. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watch Cases. Class 27.

279,210. FORGET-ME-NOT. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,211. FRAT. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,212. CLUBMAN. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,213. COLLEGIATE. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,254. CAMPUS. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watchcases. Class 27.

279,255. COMRADE. Registered Jan. 13, 1931. Elgin National Watch Company, Chicago and Elgin, Ill. Renewed Jan. 13, 1951, to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois. Watches, Watch Movements, and Watch-Cases. Class 27.

279,300. DIAMOND. Registered Jan. 13, 1931. Diamond Power Specialty Corporation, Detroit, Mich. Renewed Jan. 13, 1951, to Diamond Power Specialty Corporation, Lancaster, Ohio, a corporation of Michigan. Gauge Glasses, Water Columns, and Water Gauges. Class 26.

279,344. INDUSTRIALITE. Registered Jan. 13, 1931. Bond Electric Corporation, Jersey City, N. J. Renewed Jan. 13, 1951, to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware. Electric Flash Lights. Class 21.

279,378. "DOBBS" AND DRAWING. Registered Jan. 13, 1931. Dobbs & Co., New York, N. Y. Renewed Jan. 13, 1951, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Canes, Umbrellas, Etc. Class 41.

279,558. SULTANA. Registered Jan. 20, 1931. The Great Atlantic and Pacific Tea Company, New York, N. Y., a corporation of New Jersey. Renewed Jan. 20, 1951. Canned Salmon. Class 46.

279,559. "IONA" AND DRAWING. Registered Jan. 20, 1931. The Great Atlantic and Pacific Tea Company, New York, N. Y., a corporation of New Jersey. Renewed Jan. 20, 1951. Canned Salmon. Class 46.

279,576. "DOBBS" AND DRAWING. Registered Jan. 20, 1931. Dobbs & Co., New York, N. Y. Renewed Jan. 20, 1951, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Hats and Caps for Men, Women, and Children; Leather Gloves, Fabric Gloves, Etc. Class 39.

279,689. "J & K FITS THE ARCH" AND DRAWING. Registered Jan. 20, 1931. The Julian & Kokenge Company, Cincinnati, Ohio. Renewed Jan. 20, 1951, to The Julian & Kokenge Company, Columbus, Ohio, a corporation of Ohio. Men's, Women's, and Children's Shoes Made of Leather, Fabric, Rubber, and Combinations of These Materials. Class 39.

279,695. "THE J & K SHOE" ETC. AND DRAWING. Registered Jan. 20, 1931. The Julian & Kokenge Company, Cincinnati, Ohio. Renewed Jan. 20, 1951, to The Julian & Kokenge Company, Columbus, Ohio, a corporation of Ohio. Men's, Women's, and Children's Shoes Made of Leather, Fabric, Rubber, and Combinations of These Materials. Class 39.

280,068. CELARANDOM. Registered Feb. 10, 1931. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Feb. 10, 1951. Yarns or Threads. Class 43.

280,522. BAGATELLE. Registered Feb. 17, 1931. Dobbs & Co., New York, N. Y. Renewed Feb. 17, 1951, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Hats for Women. Class 39.

280,648. PILOT'S PAL. Registered Mar. 3, 1931. Charles N. Miller Co., Boston, Mass., a corporation of Massachusetts. Renewed Mar. 3, 1951. Candy. Class 46.

280,870. REPRESENTATION OF CENTAUR. Registered Mar. 3, 1931. Chase Brass & Copper Co. Incorporated. Renewed Mar. 3, 1951, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut. Closet Screws for Toilet Bowls, Sink Plugs, Plumbing Traps, Etc., All Made of Metal. Class 13.

280,894. "KNIGHTHOOD" AND DESIGN. Registered Mar. 3, 1931. Reeves Parvin & Co., Philadelphia, Pa., a corporation of Delaware. Renewed Mar. 3, 1951. Catsup, Honey, Alimentary Paste, Etc. Class 46.

280,953. DURANESE. Registered Mar. 3, 1931. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Mar. 3, 1951. Yarns or Threads. Class 43.

280,954. CELADORE. Registered Mar. 3, 1931. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Mar. 3, 1951. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

281,177. ELKALOY. Registered Mar. 10, 1931. P. R. Mallory & Co. Incorporated. Renewed Mar. 10, 1951, to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware. Electrode Material for Manual Spot Welding. Class 14.

TRADE-MARK REGISTRATIONS AMENDED, SURRENDERED, DISCLAIMED, CORRECTED, ETC.

235,923. SUNLIGHT. Registered Nov. 29, 1927. Sunlight Milling Company, Mount Vernon, Ind. Plain Flour. Class 46. Restricted under the provisions of Section 18 of the Trade-Mark Act of 1946 for the area comprising the States of Alabama, Georgia, Mississippi, South Carolina, and Tennessee by order of the Commissioner dated Nov. 21, 1950, following decision in Concurrent Use Proceeding No. 33, Van Dusen Harrington Co. v. Home Mill and Grain Company, Inc.

278,177. REX. Registered Dec. 9, 1930. Chain Belt Company, Milwaukee, Wis. Liquid Pumps of the Centrifugal, Diaphragm, Etc. Class 23. Amended as follows: In the statement, line 10, "and saw tables and saw rigs," is deleted.

415,574. ERICSSON. Registered Aug. 7, 1945. Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Electric Generators, Motors and Transformers, Etc. Class 21. Amended as follows: In the statement, line 13, after "telegraph lines" *and not including couplings and electric conduits* is inserted.

530,185. F A. Registered Sept. 5, 1950. The Quaker Oats Company, Chicago, Ill. Furfuryl Alcohol. Class 6. Corrected as follows: In the statement, lines 6 and 7, for "FURFURAL ALCOHOL" read *FURFURYL ALCOHOL*.

531,118. CARD-PAK. Registered Sept. 19, 1950. E. J. Wilkins Company, Gloversville, N. Y. Card Cases. Class 3. Corrected as follows: In the certificate, line 3, after "a corporation of New York," insert *now by change of name St. Thomas Inc.*,; line 13, strike out "E. J. Wilkins Company" and insert instead *St. Thomas Inc.*; in the heading to the printed statement and declaration, line 1, after "N. Y." insert , *now by change of name St. Thomas Inc.*

531,925. KOROMEX. Registered Oct. 10, 1950. Holland-Rantos Company, Inc., New York, N. Y. A Kit Consisting of a Plastic Traveling Case Containing Hygienic and Prophylactic Medical Articles. Class 44. Corrected as follows: On the page containing the statement, in the mark, for the word "KOROMIX" read *KOROMEX*.

531,964. FYERWALL. Registered Oct. 17, 1950. Richards-Wilcox Manufacturing Company, Aurora, Ill. Sheet Steel Doors With or Without Asbestos Filler, for Use in Building Construction. Class 12. Corrected as follows: In the statement, second column, line 2, for "July 1, 1946" read *July 5, 1946*.

532,217. PRESIDENT. Registered Oct. 17, 1950. E. J. Wilkins Company, Gloversville, N. Y. Billfolds. Class 3. Corrected as follows: In the certificate, line 3, after "a corporation of New York," insert *now by change of name St. Thomas Inc.*,; line 13, strike out "E. J. Wilkins Company" and insert instead *St. Thomas Inc.*; in the heading to the printed statement, line 1, after "N. Y." insert , *now by change of name St. Thomas Inc.*

532,225. SENSIBLE. Registered Oct. 17, 1950. E. J. Wilkins Company, Gloversville, N. Y. Leather Purses. Class 3. Corrected as follows: In the certificate, line 3, after "a corporation of New York," insert *now by change of name St. Thomas Inc.*,; line 13, strike out "E. J. Wilkins Company" and insert instead *St. Thomas Inc.*; in the heading to the printed statement, line 1, after "N. Y." insert , *now by change of name St. Thomas Inc.*

533,495. WILBERT. Registered Nov. 14, 1950. Wilbert W. Haase Co., Forest Park, Ill. Burial Vaults. Class 2. Corrected as follows: In the statement, second column, line 22, strike out "or" and insert instead *of applicant and*; same column, line 9, beginning with "The applicant" strike out all to and including the word and period "commerce." in line 23, and insert the same before "The applicant," line 1, same column.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

511,493. "GRENALD'S SHUTTLE LOTION" AND DESIGN. Registered June 21, 1949. Pepper-Grenald Labs. Medicinal Preparation in Liquid Form Used for the Treatment of Minor Skin Irritations, Etc. Class 6. New certificate under section 7(c) issued Dec. 26, 1950 to Ben Z. Grenald, Miami Beach, Fla.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 277,972. Registered Dec. 2, 1930. Kelco Company, San Diego, Calif., a corporation of Delaware. Republished by registrant.

KELCO

For Alginic Acid, Sodium Alginate, Ammonium Alginate, and Dry Powdered Kelp for Use as and in Medicinal Preparations and Chemical Compositions and Processes and Also Incidentally in Food Preparations.
Claims use since about Feb. 1, 1930.

CLASS 11

INKS AND INKING MATERIALS

Reg. No. 211,785. Registered Apr. 20, 1926. H. M. Storms Company, New York and Brooklyn, N. Y., a corporation of New York. Republished by registrant, present address Brooklyn, N. Y.

"Whiteface Efficiency"

The word "Efficiency" is disclaimed apart from the mark as shown.
For Carbon Paper.
Claims use since May 17, 1913.

Reg. No. 427,075. Registered Jan. 28, 1947. H. M. Storms Company, Brooklyn, N. Y., a corporation of New York. Republished by registrant.

Immaculate

For Carbon Paper.
Claims use since June 27, 1945.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 277,972. Registered Dec. 2, 1930. Kelco Company, San Diego, Calif., a corporation of Delaware. Republished by registrant.

KELCO

For Alginic Acid, Sodium Alginate, Ammonium Alginate, and Dry Powdered Kelp for Use as and in Medicinal Preparations and Chemical Compositions and Processes and Also Incidentally in Food Preparations.
Claims use since about Feb. 1, 1930.

CLASS 39

CLOTHING

Reg. No. 378,025. Registered May 21, 1940. The Tailored Woman, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Carrie Career

For Women's Dresses, Coats, Suits, Hats, Bathing Suits, Gloves Made of Leather, Fabric, and Rubber, and Combinations Thereof, Underwear, Negligees, Handkerchiefs, Shoes Made of Leather, Fabric, and Rubber, and Combinations Thereof, Play Suits, Sweaters, Outer Shorts, and Outer Skirts.
Claims use since Apr. 7, 1938.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 124,394. Registered Feb. 11, 1919. Kohrs Packing Company, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

KOHRS DAVENPORT

For Ham, Bacon, Lard, Skinned Hams, Picnic, Boiled Hams, Boiled Picnics, Hocks, Pig-Snouts, Boneless Pigs' Feet, Pig-Hearts, and Pig-Tongues.
Claims use since Apr. 1, 1880.

Reg. No. 124,395. Registered Feb. 11, 1919. Kohrs Packing Company, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

CROWN

For Ham, Bacon, Skinned Hams, Picnic, Boiled Hams, Boiled Picnics, Hocks, Pig-Snouts, Boneless Pigs' Feet, Pig-Hearts, and Pig-Tongues.
Claims use since Apr. 1, 1880.

Reg. No. 126,709. Registered Sept. 30, 1919. Kohrs Packing Company, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

The word "Dainty" is disclaimed apart from the mark as shown. The drawing is lined for blue and red.
For Cured and Smoked Clear-Plate Pork.
Claims use since July 21, 1917.

Reg. No. 202,889. Registered Sept. 8, 1925. Kohrs Packing Company, Davenport, Iowa. Republished by Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois.

SPRING BROOK

For Sausage.
Claims use since January 1924.

Reg. No. 277,972. Registered Dec. 2, 1930. Kelco Company, San Diego, Calif., a corporation of Delaware. Republished by registrant.

KELCO

For Alginic Acid, Sodium Alginate, Ammonium Alginate, and Dry Powdered Kelp for Use as and in Medicinal Preparations and Chemical Compositions and Processes and Also Incidentally in Food Preparations.
Claims use since about Feb. 1, 1930.

Reg. No. 406,300. Registered Mar. 21, 1944. Bozeman Canning Company, Mt. Vernon, Wash. Republished by Pictsweet Foods, Inc., Mt. Vernon, Wash., a corporation of Montana.

SWEET PICKIN'S

The word "Sweet" is disclaimed apart from the mark as shown.
For Canned Corn.
Claims use since Aug. 21, 1943.

CLASS 47

WINES

Reg. No. 317,372. Registered Sept. 25, 1934. California Growers Wineries Inc., Fresno, Calif. Republished by California Growers Wineries, Cutler, Calif., a non-profit cooperative association incorporated under the laws of California.

CAMEO

For Wines.
Claims use since Feb. 1, 1934.

Reg. No. 335,567. Registered June 9, 1936. California Growers Wineries Inc., Fresno, Calif. Republished by California Growers Wineries, Cutler, Calif., a non-profit cooperative association incorporated under the laws of California.

The words "Invalid Wine," "Quality," "California" and "Growers," and the outline of the label are disclaimed apart from the mark as shown.
For Wine.
Claims use since Nov. 20, 1935.

Reg. No. 337,084. Registered July 28, 1936. California Growers Wineries, Inc., Fresno, Calif. Republished by California Growers Wineries, Cutler, Calif., a non-profit cooperative association incorporated under the laws of California.

IVESTA

For Wine.
Claims use since Feb. 1, 1936.

Reg. No. 359,652. Registered Aug. 30, 1938. California Growers Wineries, Inc., Fresno, Calif. Republished by California Growers Wineries, Cutler, Calif., a non-profit cooperative association incorporated under the laws of California.

CARNATION

For Wines.
Claims use since Sept. 27, 1934.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 359,444. Registered Aug. 23, 1938. California Growers Wineries, Inc., Fresno, Calif. Republished by California Growers Wineries, Cutler, Calif., a non-profit cooperative association incorporated under the laws of California.

CARNATION

For Brandy.
Claims use since Sept. 27, 1934.

Reg. No. 365,528. Registered Mar. 14, 1939. Maryland Distillery, Inc., Relay, Md., assignor to The Calvert Distilling Co. Republished by The Calvert Distilling Co., New York, N. Y., a corporation of Maryland.

MARYLAND CLUB

For Whiskey.
Claims use since the year 1870.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 275,470. Registered Sept. 23, 1930. Leigh Chemist, Inc., New York, N. Y. Republished by Shulton, Inc., Clifton, N. J., and New York, N. Y., a corporation of New Jersey.

Poetic Dream

For Perfumes.
Claims use since May 22, 1930.

REISSUES

DECEMBER 26, 1950

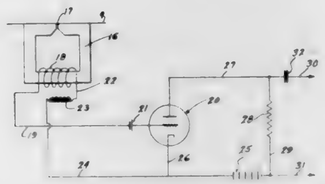
23,311

METHOD OF AND MEANS FOR NEUTRALIZING INDUCTIVE DISTURBANCES IN MAGNETIC REPRODUCERS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, a corporation of Illinois

Original No. 2,351,008, dated June 13, 1944, Serial No. 465,967, November 18, 1942. Application for reissue January 12, 1949, Serial No. 70,567

2 Claims. (Cl. 179—100.2)



2. In a magnetic reproducing device, a panel, a pair of spaced reels thereon, an elongated recording medium on said reels, a reproducing head including an electromagnet [between said reels in the path of said recording medium] *having a pair of poles spaced longitudinally of said medium and both on the same side thereof and across which said medium travels* and a pick-up coil on said panel immediately adjacent the coil of said electromagnet in *permanent* circuit connection therewith and orientable to substantially neutralize the effects of stray voltages induced in said electromagnet regardless of the general location of said device.

23,312

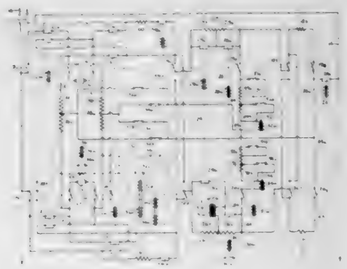
CONTROL MEANS FOR DYNAMIC BRAKING

Alvin C. Dyer, Shaker Heights, Ohio, assignor to The Electric Controller & Manufacturing Co., Cleveland, Ohio, a corporation of Ohio

Original No. 2,497,492, dated February 14, 1950, Serial No. 759,817, July 9, 1947. Application for reissue April 12, 1950, Serial No. 155,541

21 Claims. (Cl. 318—57)

1. A dynamic braking control system comprising a plurality of direct current motors each having an armature winding and a series field winding, switching means for connecting the windings of each motor in series with each other and said motors in parallel with each other across a source of power for operation thereof as series machines with terminals of like polarity of said armature windings at substantially the same potential and terminals of like polarity of said field windings at substantially the same potential, said switching means including means for reversing said motors concurrently, armature cross connections connecting said armature terminals of like polarity to common armature junction points, respectively, field cross connections connecting said field terminals of like polarity to common field junction points, respectively, a first pair of dynamic braking connections respective to said common field junction points and independently connecting their associated field junction points with one of said common armature junction points, a second pair of dynamic braking connections respec-



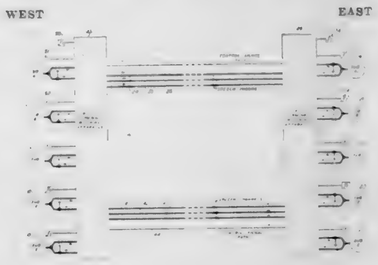
tive to said common field junction points and independently connecting their associated field junction points with the other one of said common armature junction points, and control means for making and breaking said dynamic braking connections selectively.

23,313

TRANSMISSION SYSTEM

Doren Mitchell, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original No. 2,301,223, dated November 10, 1942, Serial No. 393,196, May 13, 1941. Application for reissue February 9, 1950, Serial No. 143,311

9 Claims. (Cl. 179—1.5)

1. In a speech transmission system, a plurality of transmitters, an equal number of receivers, a plurality of speech transmission channels, means for applying a speech fragment of a duration equal to a vocal interval produced by one of said transmitters to a selected one of said speech transmission channels, and means operated by energy resulting from production of a speech fragment of vocal interval duration by

one of said transmitters to preselect both the sending end and the receiving end of an idle speech channel for transmission of the next succeeding speech fragment of such duration.

23,314

GENERATOR-MOTOR DRIVING SYSTEM

Paul T. Nims, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Original No. 2,506,809, dated May 9, 1950, Serial No. 768,118, August 12, 1947. Application for reissue June 9, 1950, Serial No. 167,168

18 Claims. (Cl. 318—145)

1. In an electrical network, an alternator having a plurality of pairs of phase windings, a unidirectional current electric motor, circuit means including rectifying means and an electric switch connecting said motor to said alternator, said switch means being positioned intermediate said rectifying means and said alternator and operable to connect each of said pairs of phase windings in series circuit at back electromotive forces of said motor above a predetermined value and to connect each of said pairs of phase wind-

ings in parallel circuit at back electromotive forces of said motor below said value.

PATENTS

GRANTED DECEMBER 26, 1950

2,535,024

LUBRICATING COMPOSITIONS

Charles Earle Funk, Jr., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 13, 1948, Serial No. 2,132

3 Claims. (Cl. 252—32.7)

1. Process for preparing a solution in mineral oil of a heavy metal salt of an oil-soluble ester of dithiophosphoric acid which comprises the steps of adding an oil-soluble ester of dithiophosphoric acid to a dispersion in mineral oil of a member of the group consisting of the oxide and hydroxide of barium, said dispersion containing from about 0.5% to about 5.0% of methanol, reacting the said materials at a temperature of from about 20° C. to about 90° C. while retaining in the solution an amount of methanol sufficient to carry out complete neutralization of the acid dithiophosphoric ester, and removing the oil-soluble reaction salts by filtration.

2,535,025

PROCESS OF TREATING FERRITES

Ernst Albers-Schoenberg, Metuchen, N. J., assignor to Steatite Research Corporation, Keasbey, N. J., a corporation of Delaware

No Drawing. Application October 6, 1949, Serial No. 120,001

4 Claims. (Cl. 25—157)

1. In a method of manufacturing shaped ferromagnetic oxide products from trivalent ferric oxide together with at least one bivalent metallic oxide in which the said oxides are intimately mixed together, molded to form an article of the desired shape and then fired to produce a compact coherent matured product having the said desired shape, the improved firing process which comprises first ceramically maturing the shaped article by firing in a ceramic kiln in the normal atmosphere of the kiln which consists essentially of air mixed with carbon oxides and water vapor and subsequently refiring the ceramically matured product at a temperature below the ceramic maturing temperature in a protective gas atmosphere.

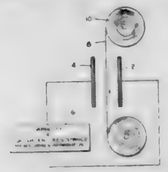
2,535,026

MOISTURE DETERMINATION

Wilmer Clayton Anderson, Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York

Application February 21, 1947, Serial No. 730,154

7 Claims. (Cl. 175—183)



1. The method of determining moisture content of a definite type of material which comprises, first obtaining a relationship for that type of material between the per cent moisture content and the ratio of change in equivalent series resistance to change in capacity of a condenser occasioned by insertion of such material between the condenser electrodes, and thereafter using such relationship for determining moisture content of material of the same type but not necessarily of the same dimensions or weight from ratios of equivalent series resistance and capacity measurements of the condenser with the latter material between the electrodes.

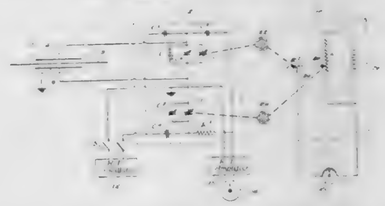
2,535,027

APPARATUS FOR MEASURING AND CONTROLLING MOISTURE CONTENT OR THE LIKE

Wilmer Clayton Anderson, Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a trust of New York

Application March 27, 1947, Serial No. 737,464

15 Claims. (Cl. 34—52)



1. A meter comprising in combination a balancing network including at least two adjustable elements, a condenser for reception of material to be tested between the electrodes thereof connected across one of said elements, a source of alternating potential for said network, a device so connected to the network as to be energized only when said network is out of balance, means for adjusting said elements to restore balance of said network upon unbalance thereof, a computing network having a pair of adjustable elements operatively connected with said last mentioned means so as to be adjusted simultaneously with the first pair of elements, and an indicating device connected to said computing network for indicating the condition thereof.

2,535,028

SPEED VARIATOR

Jakob Arter, Oberengstringen, Switzerland, assignor, by mesne assignments, to Olkon Research Corporation, New York, N. Y., a corporation of Delaware

Application February 18, 1948, Serial No. 9,245

In Switzerland January 2, 1941

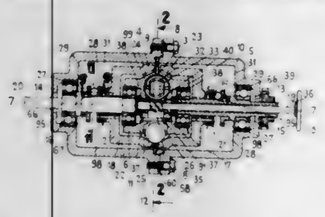
Section 1, Public Law 690, August 8, 1946

Patent expires January 2, 1961

30 Claims. (Cl. 74—796)

1. Apparatus for transmitting motion from a driving shaft to a driven shaft provided with a common axis in a region of space having, in combination, a plurality of balls disposed about the said region symmetrically with respect to the said common axis, two members respectively provided with surfaces of revolution about the said common axis to form ball races for engaging the

balls, means for maintaining the balls and the ball races in engagement, one of the members being rotatable with one of the shafts, means whereby rotation of either shaft is transmitted through the ball races and the balls to the other shaft, a plurality of freely rotatable rolls disposed



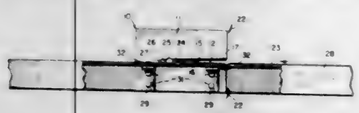
about the said region symmetrically with respect to the said common axis, means for maintaining each roll between and rotatably engaging two adjacently disposed balls, and means disposed in the said region for simultaneously adjusting the rolls to vary the transmission of the rotary movement between the ball races.

2,535,029

METHOD AND APPARATUS FOR CUTTING FUSIBLE FABRICS

John V. Atanasoff, Silver Spring, Md., and Lloyd H. Kaltenberger, Wichita Falls, Tex.

Application August 13, 1946, Serial No. 690,201
6 Claims. (Cl. 164—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



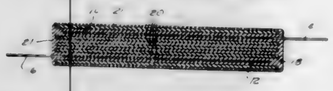
1. An apparatus of the character disclosed for separating fusible fabrics by heat and pressure and comprising a heat conducting plate having a slot therein, a heating element disposed in said slot for heating the plate, a pair of knife edges arranged in the same plane and formed in said plate in predetermined spaced relation in such a manner as to form an elongated tapered opening therebetween, said plate having an enlarged opening formed therein in communication with and abutting said tapered opening at a point where the separation of the knife edges is a minimum, and a wedge in said plate having the apex edge thereof arranged in the plane of said knife edges.

2,535,030

ELECTRICAL CONDENSER

Jayson C. Balsbaugh, Newton Center, Mass., assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa.

Application May 4, 1944, Serial No. 534,076
5 Claims. (Cl. 175—41)



4. A high-frequency, high-voltage electrical condenser having spaced conductive electrodes characterized by at least one sheet of homogeneous, non-porous, non-ionizable material interposed between and extending beyond the edges of adjacent ones of said electrodes, said sheet and said electrodes having micro-smooth, non-porous surfaces and being in excess of 0.0005 inch in thickness and less than 0.005 inch, a film of thermoplastic dielectric adhesive to the adjacent sheet throughout its facing surface and conforming accurately to minute surface irregularities thereof, said film being less than 0.0003 inch in thickness and uniform throughout the area between the electrodes and thicker in the peripheral portions beyond the edges of the electrodes.

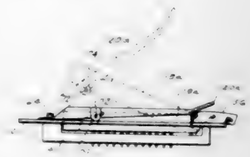
5. A high-frequency, high-voltage electrical condenser having spaced plates characterized by dielectric material made up of refractory, non-absorbent, air-free layers made from a hydrous gel of a fine, white California bentonite of particle-size in the range 10 to 200 millimicrons, and high molecular weight salt, said layers being of uniform thickness and spaced from each other, and thermoplastic resinous dielectric films adherent to the entire facing surfaces of said layers and filling the spaces therebetween and of such thinness that the overall breakdown strength in volts per mil of the dielectric between said plates is at least as great as that of said bentonite layers alone, said layers and said resinous films being combined into a dense integral structure having sharply defined homogeneous layers.

2,535,031

COMBINATION PLUG, SOCKET, AND PANEL ASSEMBLY

John W. Beatty, Dayton, Ohio

Application October 6, 1948, Serial No. 53,014
5 Claims. (Cl. 173—328)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



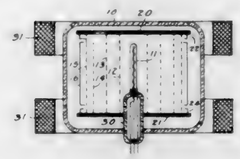
1. In a device of the character described, a panel having an opening therethrough, a multiple contact member secured to the underside of said panel in register with said opening, a multiple cable, a second multiple contact member having its contacts electrically joined, one to each of the several wires of said cable and in removable engagement with the contacts of said first multiple contact member, fulcrum prongs on said second multiple contact member extending from one end downward through said opening and lying against the underside of said panel when said second multiple contact member is fully entered in said opening, a cover hinged at the end of said opening opposite to that at which the second multiple contact member is fulcrumed, adapted to close over said second multiple contact member when the contacts of said second multiple contact member are in engagement with the contacts of said first multiple contact member, and adapted to close over said opening when said second multiple contact member is withdrawn from said panel, a cam on each side of the said second multiple contact member and a cam engaging lug movable inwardly on each side of the said cover, both positioned near the end to which the lid is hinged, and a spring for each lug urging said lugs inwardly toward each other, the inner ends of said lugs being beveled from the upper edge downwardly and outwardly, whereby when said cover is closed after the said second multiple contact member is in the engaged position, the lugs will spread apart, pass over the cams and lie along the underside thereof positioned for a subsequent opening.

2,535,032

RADIO-FREQUENCY MASS SPECTROMETER

Willard H. Bennett, Washington, D. C.

Application August 19, 1948, Serial No. 45,163
6 Claims. (Cl. 250—41.9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



5. In combination, a cathode, four grids and an anode, said grids being placed in order between said cathode and anode, the first grid being adjacent the cathode, the fourth grid being adjacent the anode, a first unidirectional potential applied between said cathode and said first grid, an alternating potential applied between said first and second grids and between said second and third grids so that the alternating fields produced between said first and second grids are 180 degrees out of phase with the alternating field produced between said second and third grids, a second unidirectional potential applied between the first and second grids, a third unidirectional potential applied between said second and third grids, said second and third potentials being each in series with said alternating potentials and each producing a field in opposition to the field of said first unidirectional potential, said second and third unidirectional potential being approximately .730 times the peak value of the alternating potential with which they are in series, a fourth unidirectional potential applied between said cathode and fourth grid of such polarity that its field opposes the field of said first unidirectional potential, and having a magnitude a little less than .730 times the peak of said alternating potential, a fifth unidirectional potential applied to the anode, said potential being a polarity that its field aids that of the first unidirectional potential, and having a magnitude greater than the sum of the first potential plus twice .740 times the peak of the alternating potential.

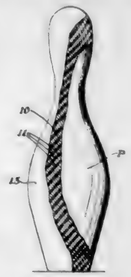
2,535,033

BOWLING PIN HAVING PLASTIC-IMPREGNATED FABRIC COATING

Emric W. Bergere, San Diego, Calif.

Application May 17, 1946, Serial No. 670,635
3 Claims. (Cl. 273—82)

1. In combination, a bowling pin, a surface finish therefor comprising an envelope of elastic rib-stitched fabric stretched tightly about the pin, the ribs of the fabric extending spirally



around the pin, and one or more coats of a nitrocellulose lacquer applied to the fabric.

2,535,034

PRODUCTION OF SHEET MATERIAL FROM RUBBER

Bruce R. Billmeyer, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application October 24, 1946, Serial No. 705,475
6 Claims. (Cl. 18—53)

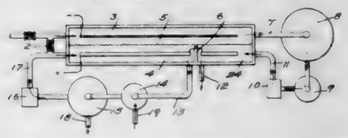
1. A process of preparing flexible, smooth surfaced sheets containing a rubber which comprises forming a rubber compound, including an unvulcanized rubber, a plasticizer, a filler, a vulcanizing agent, and an activator for vulcanization, in a mixing zone maintained at elevated temperature, extruding the resulting plastic mass at a higher temperature, cutting the extruded material, subdividing the extruded and cut material into particles the bulk of which are between sieve numbers 10 and 30 on the standard screen scale, forming a sheet from said particles, and curing said sheet in air at a temperature of approximately 180° F. to 200° F. and at substantially atmospheric pressure.

2,535,035

METHOD OF ELECTROLYTIC WATER SOFTENING AND pH ADJUSTMENT

Robert E. Briggs, La Verne, Calif.

Application April 30, 1945, Serial No. 591,195
3 Claims. (Cl. 204—151)



1. The method of softening hard water by treatment in the cathode compartment of a diaphragm electrolytic cell having a cathode positioned in a cathode compartment and an insoluble anode positioned in an anode compartment, which process comprises, flowing said hard water as a catholyte through said cathode compartment in contact with said cathode, recirculating a separate aqueous anolyte through said anode compartment in contact with said anode, passing direct current between said anode and cathode whereby the pH of said anolyte decreases and the pH of said catholyte increases, discharging a portion of said anolyte to waste, adding make-up water to said anolyte and adding an alkaline

material to said anolyte during said recirculation in addition to any seepage of catholyte through said diaphragm and sufficient to maintain the pH of said anolyte in said anode compartment above approximately 2, and subjecting said catholyte to treatment in said cathode compartment for sufficient time to cause precipitation of insoluble alkaline compounds of hardness producing materials.

2,535,036

MANUFACTURE OF FINELY DIVIDED SILICA

Donald B. Broughton, Boston, Mass., assignor to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts

No Drawing. Application September 3, 1946, Serial No. 694,680
1 Claim. (Cl. 23—182)

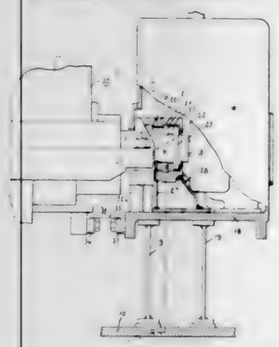
The process of producing an amorphous and finely divided silica which comprises reacting SiF_4 and H_2O in vapor phase and at a temperature which prevents the formation of moisture, collecting said silica after its formation separate from the reaction and maintaining said collected silica at a sufficiently high temperature to prevent the formation of moisture therein, maintaining said temperature until the HF has substantially separated therefrom, and then lowering the temperature of the collected silica.

2,535,037

TURBINE PEDESTAL ARRANGEMENT

Ozro N. Bryant, Prospect Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 2, 1947, Serial No. 745,421
2 Claims. (Cl. 253—39)



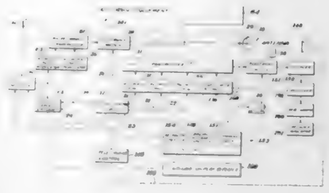
1. In a turbine, wherein a foundation carries a cylinder enclosing a rotor, a pedestal structure carried by the foundation adjacent to the high pressure end of the cylinder; said pedestal structure including a horizontal platform; bearing means carrying radial and thrust loads imposed thereon by the rotor; means for connecting the bearing means to the platform so that the center of the bearing means is held against vertical, horizontal and axial movements with respect to the platform while it is movable angularly in all directions with respect to said center to maintain alignment of the bearing with the rotor; means for supporting the weight of the high-pressure end of the cylinder on the platform and accommodating for radial expansion of the cylinder horizontally; and a plate connected to the high-pressure end of the cylinder and to the platform; said plate being horizontal so as to be elastically deformable vertically to accommodate for vertical expansion of the cylinder and so as to be stiff horizontally to hold the cylinder axis horizontally with respect to the platform; said pedestal structure also including vertical plates for supporting the platform from the foundation and which plates extend normally with respect to the rotor axis so as to be elastically deformable axially of the turbine to accommodate for axial expansion and contraction of the rotor and cylinder and to be stiff transversely of the rotor axis to hold the latter against transverse displacement vertically and horizontally.

2,535,038

POSITION INDICATOR SYSTEM

Henri G. Busignies, Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application January 26, 1946, Serial No. 643,701
16 Claims. (Cl. 343—6)



10. In a radio indicating system wherein a plurality of objects about a predetermined location are indicated at said location, certain of said objects being provided with means for transmitting predetermined characteristic signals responsive only to predetermined individual signals; a system for obtaining a response at said location from a selected one of said objects comprising means for transmitting to said one object an individual signal in an angularly moving directive pattern characterized with said one object's distance with respect to said location, and means for receiving said predetermined characteristic signal, and means for translating said predetermined characteristic received signal.

2,535,039

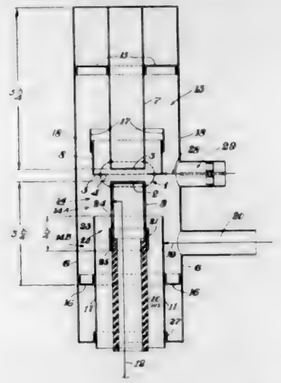
HIGH-FREQUENCY ELECTRON DISCHARGE DEVICE

Benjamin Malcolm Charchian, New York, N. Y., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware

Application April 19, 1947, Serial No. 742,531
8 Claims. (Cl. 315—39)

1. A high frequency electron discharge device for broad band operation comprising a cathode, a grid, an anode, a cathode cavity resonator connected between said cathode and said grid for applying input signals to said device, an anode cavity resonator for obtaining output signals comprising an extension of said anode and an outer conductor positioned concentrically thereabout coupled to said grid, an intermediate cavity resonator coupled to said anode cavity resonator, said intermediate cavity resonator comprising said outer conductor and an intermediate conductor concentrically positioned between said outer conductor and said anode extension and overlapping said anode extension a length equal to an odd integral number of quarter-wave lengths at the operating frequency of

the device whereby radio frequency energy developed in said anode cavity resonator is effectively blocked from passing between said anode extension and said intermediate conductor.

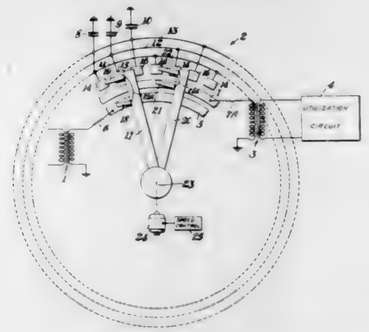


2,535,040

SYNCHRONOUS FILTER

Gilbert R. Clark, Nutley, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application April 24, 1946, Serial No. 664,483
13 Claims. (Cl. 178—44)



6. A rotary wave filter for the selection of a single frequency from a source of oscillatory energy of more than one frequency comprising three energy storage means, a first movable contact for applying energy successively and cyclically from a given source to each of said storage means in synchronism with the recurring portions of a wave of a given frequency, a second movable contact for successively obtaining signals from each of said storage means in synchronism with said given frequency, an annular conductor connected to each of said energy storage means, each said annular conductor having a plurality of contact members connected thereto and circumferentially arranged, said contact members of all said storage means being disposed in successively recurring groups with respect to one another, said first and second movable contacts being mounted to contact said contact members.

2,535,041

BATTERYLESS FLASHLIGHT

Joseph C. Clark, Merchantville, N. J., assignor to Jeny Corporation, Merchantville, N. J., a corporation of New Jersey

Application February 14, 1948, Serial No. 8,417
10 Claims. (Cl. 171—76)

1. A hand operated portable generator for resistance units comprising a stator core, a coil embracing a portion of the stator core, a magnetized flywheel disc forming the armature of the generator, means mounting the flywheel for rotation, manually operated means biased in one direction arranged for bidirectional movement, gearing operatively associating the manually operated means and the flywheel for unidirectional movements of the latter and comprising a rack on said manually operated means, a bodily fixed gear in driving relation to said flywheel, a bodily movable gear biased toward the bodily fixed gear, means guiding said bodily movable gear for translational movement between positions respectively of meshing and unmeshing relation between the gears while constantly maintaining meshing engagement between the bodily movable gear and said rack, said meshing relation between said gears being automatically effected upon movement of said manual means in one direction and said unmeshing relation being effected against the bias upon movement of said manual means in the other direction and also as a result of torque from the bodily fixed gear in the inertial running of the flywheel.

2,535,042

PREPARATION OF IRON CARBIDES

Ernst M. Cohn and Lawrence J. E. Hofer, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Interior

No Drawing. Application January 5, 1950, Serial No. 137,042
11 Claims. (Cl. 23—208)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for the preparation of cementite comprising the steps of carburizing iron at a temperature of from 100° C. to 350° C., discontinuing said carburizing treatment before the atom ratio of carbon to iron reaches 1:2, and then annealing said carburized iron at a temperature of from 250° C. to 700° C. to convert at least a portion of the iron carbides present in said carburized iron to cementite.

2,535,043

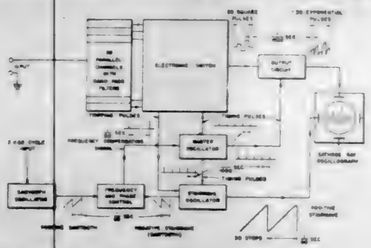
WAVE ANALYZER

George W. Cook, Washington, D. C.

Application January 27, 1943, Serial No. 473,711
19 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An electronic switching circuit comprising a plurality of high-vacuum electron tubes arranged functionally in rows and columns, each of said tubes including an anode, a cathode and control electrode means, said tubes being normally in non-conducting conditions, means cooperating with said control electrode means of tubes in each row for partially biasing rows of tubes suc-

cessively and cyclically, and means cooperating with said control electrode means of tubes in each column for partially biasing columns of tubes successively and in timed relation to the



cyclic partial biasing operations of said first mentioned means, a tube being adapted to conduct when concurrently acted upon by the first mentioned means and the second mentioned means.

2,535,044

SPINNING OF VISCOSE

Norman Louis Cox, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application April 26, 1947, Serial No. 744,068
24 Claims. (Cl. 18—54)

1. A method of producing regenerated cellulosic structures which comprises spinning viscose containing at least one millimole per 100 grams of viscose of an aliphatic monoamine having at least four carbon atoms but containing no radical of more than six carbon atoms and being soluble in 6% aqueous sodium hydroxide to the extent of at least 0.3% in an aqueous sulfuric acid spinning bath containing from 1% to 15% zinc sulfate.

2,535,045

SPINNING OF VISCOSE

Norman Louis Cox, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application April 26, 1947, Serial No. 744,069
24 Claims. (Cl. 18—54)

1. A method of producing regenerated cellulosic structures which comprises the step of spinning viscose into an aqueous 4 to 12% sulfuric acid spinning bath containing at least 2% of zinc sulfate and at least 0.2% of a bath-soluble monoamine which contains from 4 to 10 carbon atoms and which contains no radical having more than 6 carbon atoms.

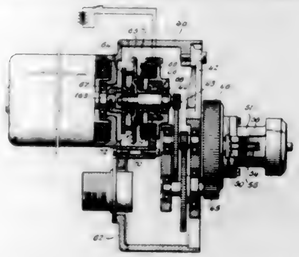
2,535,046

SERVOMOTOR

Robert S. Curry, Jr., Baldwin, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application October 25, 1945, Serial No. 624,441
10 Claims. (Cl. 192—.02)

1. In aircraft servomotor apparatus for the operation of an aircraft control element such as a rudder, a base, means for securing the base to an aircraft, control-element operating means movably mounted on the base, a motor, speed reduction means in driven relation to the motor, clutch means having two substantially completely separable portions one in driven relation to the low-speed end of the reduction means and the other in driving relation to the control-element operat-



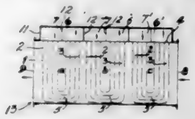
ing means, means for detachably securing the motor and the first part of the clutch means in driving engagement with the second part of the clutch means, and means constructed and arranged on actuation thereof to operate the clutch means so as to disengage the control-element operating means from the speed reduction means and motor.

2,535,047

AIR PREHEATER FOR STEAM GENERATING PLANTS

David Dalin, Ronninge, and Gustav Vilhelm Hagby, Ostertalje, Sweden

Application November 22, 1944, Serial No. 564,584
In Sweden November 6, 1943
1 Claim. (Cl. 257—235)



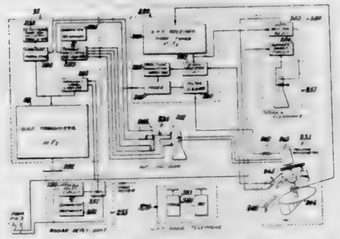
An air preheater for steam generating plants comprising: a duct through which hot gases are adapted to flow, said duct having a flat top wall at one portion thereof; two groups of U-shaped tubes wholly inside the duct and one downstream from the other, said tubes having the extremities of their legs fixed to said flat top wall portion and opening therethrough, and each group of tubes extending across the duct from side to side thereof with the legs of the tubes of each group lying at opposite sides of a plane transverse to the duct so that the tubes occupy planes extending substantially in the direction of gas flow in the duct; a housing connected to said top wall portion at the exterior of the duct; spaced apart straight walled partitions in said housing extending transversely of the duct and located between the groups of tubes and substantially in said transverse planes between the legs of the tubes of each group, said partitions defining two pairs of separate but adjacent headers, each header extending transversely across said flat top wall portion of the duct over and in communication with the open ends of the tubes at one side of said transverse plane; an air inlet chamber communicating with one set of alternate headers at one side of the duct; and an air outlet chamber communicating with the other set of alternate headers at the opposite side of the duct.

2,535,048

COMMUNICATION AND RADIO GUIDANCE SYSTEM

Edmond M. Deloraine, Paris, France, and Paul R. Adams, Cranford, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Original application April 29, 1944, Serial No. 533,322. Divided and this application December 15, 1945, Serial No. 635,340
6 Claims. (Cl. 343—6)



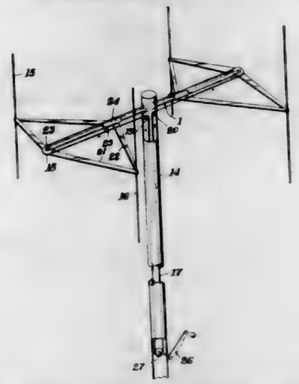
1. In an aircraft traffic control system having two terminals and a chain of multi-channel relay stations disposed along a given course between said terminals, means at one of said terminals for transmitting a plurality of groups of pulses for relay transmission through a given carrier medium along said train of stations, each group of pulses representing a different channel, means for transmitting pulse signals from aircraft in flight along said course, inserter means at at least certain of said stations for receiving and inserting said pulse signals into said carrier medium, means to control said inserter means for inserting in said carrier medium only those of said pulse signals received during predetermined time intervals, whereby at least a given percentage of said pulse signals is inserted in said carrier medium for transmission to the other of said terminals.

2,535,049

ANTENNA STRUCTURE

Louis A. de Rosa, Bloomfield, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application November 14, 1945, Serial No. 628,609
4 Claims. (Cl. 250—33.53)



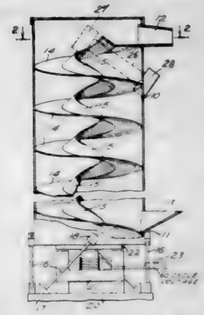
1. An antenna array comprising a supporting member, two pairs of radiators, the pairs being disposed adjacent opposite ends of said supporting member, the two radiators of each pair being oppositely disposed about an end of said supporting member and parallel to one another, link means for effecting movement of each radiator in an arc about its respective end of said supporting member, and means connected to all said link means for simultaneously moving said radiators towards or away from the two ends of said supporting member, whereby the distance between said radiators of each pair and between corresponding radiators of the two pairs may be varied.

2,535,050

VIBRATORY CONVEYER

Lee Devol, West Hartford, Conn., assignor to Anthracite Equipment Corporation, Wilkes-Barre, Pa., a corporation of Delaware

Original application July 13, 1945, Serial No. 604,768. Divided and this application August 24, 1948, Serial No. 45,925
7 Claims. (Cl. 198—220)



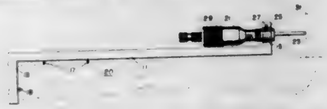
6. In a helical conveyor device, the combination of a vertically disposed helical conveyor member, a plurality of spring means disposed about a common axis and mounted to support and guide said helical conveyor member for reciprocation in a confined inclined arcuate path of movement about said axis, driving means mounted to be effective in imparting energy impulses to said helical conveyor member causing it to reciprocate in its confined path of movement and in synchronism with the frequency of said energy impulses, and weight means free to vibrate relative to the helical conveyor member for maintaining uniform reciprocation of the conveyor member throughout its length, said weight means being resiliently attached to said conveyor member intermediate the length thereof.

2,535,051

ADJUSTABLE CENTERING GAUGE

John F. Donohue, Philadelphia, Pa.

Application November 7, 1946, Serial No. 708,367
6 Claims. (Cl. 33—180)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



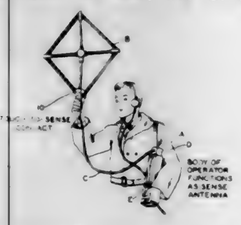
1. A centering gauge comprising a bar having a body portion, a plurality of contact points lying in a common plane on an edge of said body portion, and first and second leg portions extending

oppositely from opposite ends of said body portion, said first leg portion extending at an angle from said edge and said second leg portion mounting a micrometer scale that is extensible beyond and parallel to said body portion.

2,535,052
INSECT REPELLENTS
Nathan L. Drake, College Heights, Md., and Charles M. Eaker, Affton, Mo., assignors to the United States of America as represented by the Secretary of the Army
No Drawing. Application January 11, 1949, Serial No. 70,391
5 Claims. (Cl. 167—30)

1. An insect repellent composition comprising the cyclopentyl ester of 2-oxo-cyclopentanecarboxylic acid in a non-gaseous inert organic carrier.

2,535,053
PORTABLE RADIO COMPASS
Michael D. Ercolino, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War
Application June 5, 1945, Serial No. 597,682
5 Claims. (Cl. 343—113)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

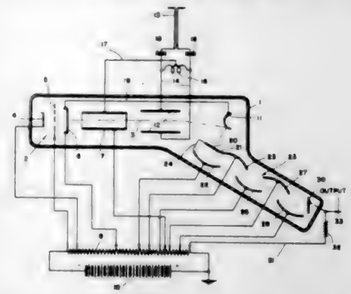


1. A radio compass attachment for a portable receiver comprising a portable antenna having a figure-of-eight response pattern and having a handle adapted to be grasped by one hand of the operator to hold the antenna aloft in operating position, and a metallic contact coupled to the circuit of said antenna and located adjacent said handle whereby said contact can be conveniently touched by the thumb of said hand to couple the body of the operator to the loop antenna circuit, whereby said operator functions as a vertical sense antenna.

2,535,054
BRUSH PULLER
Walter Ernst, Mount Gilead, and Dick Franklin Boyd, Dayton, Ohio, assignors to Institute of Industrial Research, San Antonio, Tex., a foundation of Texas
Application April 30, 1947, Serial No. 744,900
20 Claims. (Cl. 254—132)

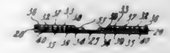
1. In a brush or stump puller; a frame having a vertical pivot at one end; a pair of jaws mounted on said pivot and movable for gripping brush or stumps therebetween, said jaws opening away from said frame; vertically actuated jack means carried at the jaw end of said frame; and power means also carried by the said frame at the jaw end thereof and connected with said jaws and with said jack means for actuating the same in their working movements, said jack means including ground pads directly beneath said jaws and being arranged and constructed to exert a separating thrust on said jaws and pads whereby the pulling force on an article is confined to said jaws and jack means and is not exerted on said frame.

2,535,055
SPACE DISCHARGE DEVICE
Joseph C. Ferguson, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application January 4, 1945, Serial No. 571,265
8 Claims. (Cl. 250—150)



1. A space discharge device including means for developing an electron beam, means for deflecting said electron beam in accordance with a signal to be amplified, an element having a secondary electron emissive convex surface interposed into the path of said electron beam to obtain a cumulative deflection of the said beam, means for collecting secondary electrons liberated by said beam from said surface, and means interposed between said surface and said collecting means for selecting a number of secondary electrons varying in accordance with the deflection of said beam and with the angular distribution of said secondary electrons.

2,535,056
CARTON
William P. Frankenstein, Cincinnati, Ohio
Original application May 7, 1945, Serial No. 592,371. Divided and this application October 22, 1947, Serial No. 781,291
10 Claims. (Cl. 229—34)



1. In a carton part of the class described, formed from a single blank comprising a base member, side walls at opposite sides of the base member each inwardly spaced from its base side and including an outer wall member, an inner wall member spaced from the outer wall member and a top wall member between said inner and outer wall member, a glue flap for hingedly securing the lower end of the inner wall member to the base, a panel portion between each side wall outer wall member and its base side overlying the base with the glue flap between the panel portion and base to form an extending flange beyond the side wall outer wall member and the panel portion hingedly connecting the side wall outer wall member to the base whereby the side walls may be folded flat, and end walls extending from the remaining sides of the base.

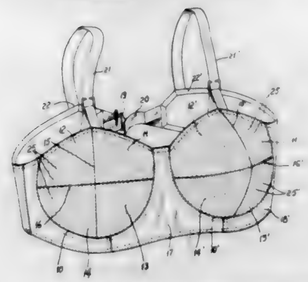
2,535,057
PROCESS FOR MAKING ULTRAMARINE
Albert E. Gessler, Scarsdale, and Charles A. Kumins, Brooklyn, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application October 8, 1947, Serial No. 778,728
12 Claims. (Cl. 106—305)

1. The method of obtaining an ultramarine blue which comprises heating an intimate mixture in proportions sufficient to produce an ultramarine blue, of artificial zeolite, a material selected from the group consisting of sodium sulfide and sodium polysulfides and an excess of sulfur under reducing conditions for 2 to 4 hours at 750° C. to 850° C., lowering the temperature of the mass to from 475° C. to 625° C., and maintaining it at such temperature in an oxidizing atmosphere and in the presence of oxides of sulfur for at least 1 hour, cooling the mass and washing.

2,535,058
STABILIZATION PROCESS
William K. T. Gleim, Chicago, and Joseph A. Chenicek, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 3, 1947, Serial No. 732,142
13 Claims. (Cl. 44—63)

7. Cracked gasoline containing from about 0.001% to about 0.1% by weight of 2,2-dimethyl-6-tertiary-butyl-5-hydroxy-coumaran.

2,535,059
BRASSIÈRE
Gerald W. Gluckin, New York, N. Y., assignor to William Gluckin & Co., Inc., New York, N. Y., a corporation of New York
Application July 17, 1948, Serial No. 39,222
2 Claims. (Cl. 2—42)

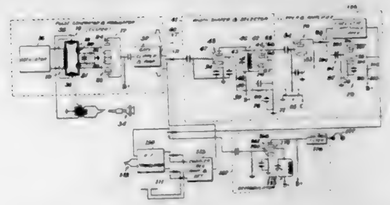


1. A brassière of the class described comprising a pair of pockets, means joining the pockets and supporting the same upon the body of the wearer, each pocket being formed from a plurality of sections, joined by cross-seams, one seam being disposed horizontally and the other seam being disposed vertically on the pocket, the pocket sections at the vertical seams having straight edges, all sections of the pocket having parallel stitchings arranged over the area thereof, and said stitchings being substantially parallel to the vertical seams.

2,535,060
CATALYTIC PROCESS FOR PREPARING ALCOHOLS
William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 15, 1949, Serial No. 99,343
9 Claims. (Cl. 260—449)

1. A process for preparing alcohols which comprises introducing into a reaction vessel a mixture of carbon monoxide, hydrogen, a hydroxylated solvent of the class consisting of water and primary hydroxyalkanes having from one to ten carbon atoms per molecule, heating the said mixture in the presence of a ruthenium-containing substance and an alkaline reagent which controls and maintains the pH within the range of 7.0 to 11.5, at a temperature within the range of 150° to 300° C. under a pressure within the range of 200 to 1000 atmospheres, the mol ratio of hydrogen to carbon monoxide being initially from 0.1:1 to 10:1, whereby a reaction occurs resulting in the formation of a mixture of straight chain primary hydroxyalkanes in which the number of carbon atoms per molecule is from 2 to 10 as the chief reaction products, and thereafter separating from the resulting mixture hydroxyalkanes in which the number of carbon atoms per molecule is within the range of from 2 to 10.

2,535,061
ELECTRICAL PULSE WIDTH SHAPER AND SELECTOR
Donald D. Grieg, Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application August 19, 1944, Serial No. 550,183
13 Claims. (Cl. 250—27)

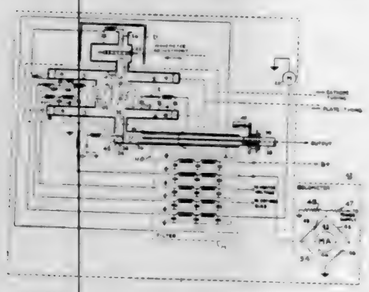


4. In a system for selecting wave energy pulses of different widths, means for translating pulses of various widths into pulses of various amplitudes, said translating means being adjustable to translate pulses of a desired width into pulses of the greater amplitude, and a peak following threshold clipper, having means responsive to the amplitude of the pulses from said translating means for varying its clipping level, to select pulses of the greater amplitude present.

2,535,062
ULTRA HIGH FREQUENCY SIGNAL GENERATOR
Andrew V. Haeff and Thure E. Hanley, Washington, D. C., and Charles B. Smith, Silver Spring, Md.
Application April 28, 1945, Serial No. 590,854
14 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

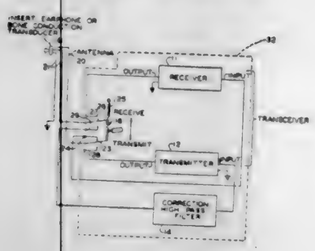
1. In combination, an oscillator of radio frequency oscillations including a vacuum tube hav-

ing anode, cathode and control electrodes, and an oscillatory circuit comprising a pair of independently tunable resonant cavities; an adjustable attenuator system; means coupling said attenuator system to one of said cavities; said coupling means including means providing a



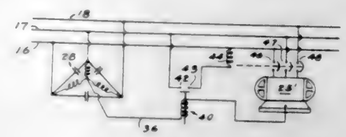
transfer of energy from said one of said cavities to said attenuator system at a point of low voltage; and a bolometer element capacitively connected across the R. F. oscillation circuit near the input to said attenuator system, said bolometer element being connected to and forming one arm of a four-arm balanced bridge circuit.

2,535,063
COMMUNICATING SYSTEM
William S. Halstead, Purchase, N. Y., assignor, by mesne assignments, to Farnsworth Research Corporation,, a corporation of Indiana
Application May 3, 1945, Serial No. 591,742
2 Claims. (Cl. 250—13)



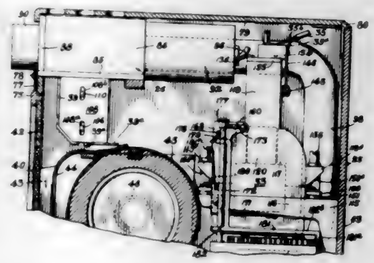
1. A combination transmitter-receiver, including a transmitter proper, a receiver proper, a transducer adapted to be positioned adjacent the entrance of the ear of an operator, a cord alternatively leading low frequency energy to and from said transducer, a layer of relatively low dielectric material surrounding said cord, a layer of conductive material embracing said dielectric layer and functioning as antenna means, switching means connecting said transducer alternatively to the input of the transmitter proper and to the output of the receiver proper, said switching means simultaneously connecting said antenna means alternatively to the output of the transmitter proper and to the input of the receiver proper, said combination also including speech frequency corrective means connected between said transducer and the input of said transmitter proper, whereby the distortion of acoustical energy reaching said transducer via the ear is compensated.

2,535,064
RESONANT GROUNDING DEVICE FOR ALTERNATING-CURRENT CIRCUITS
Lawrence H. Harrison, Birmingham, Ala.
Application February 24, 1948, Serial No. 10,551
8 Claims. (Cl. 175—294)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. The combination of claim 2 in which there is a safety device connected between said electrical component and said conductors, said safety device operating to disconnect said electrical component from said conductors when the current flowing from said conductors to said electrical component exceeds a predetermined value.

2,535,065
GALVANOMETER
Carl A. Heiland, Denver, Colo., assignor to Heiland Research Corporation, Denver, Colo., a corporation of Colorado
Application August 11, 1944, Serial No. 549,105
14 Claims. (Cl. 171—95)

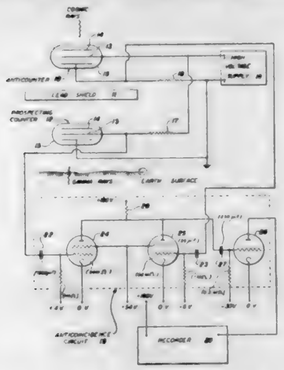


11. An electrical galvanometer comprising, a field structure having pole pieces and a source of magnetic lines of force, a ribbon fixed at its ends with respect to said field structure, a coil mounted on said ribbon for oscillatory movement between said pole pieces, a concave cylindrical mirror mounted with its axis extending vertically and parallel to the axis of said ribbon for movement with said coil, and means for adjusting said galvanometer bodily about the center of said mirror.

2,535,066
PROSPECTING
Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 9, 1948, Serial No. 13,843
19 Claims. (Cl. 250—83.6)

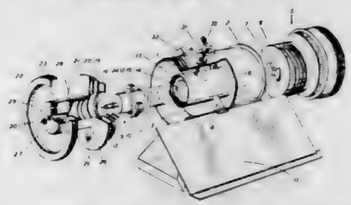
1. In prospecting, involving the detection of the intensity of gamma radiation from the earth with a first radiation detector in the presence of cosmic rays to which it is sensitive, the improvement which comprises interposing at least

one additional detector sensitive to cosmic rays in the path of the cosmic rays passing to the



first detector, and observing only those rays which are detected by the first detector alone.

2,535,067
ULTRA HIGH FREQUENCY RADIO TRANSMITTER
Ronald Springford Hope, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 7, 1947, Serial No. 753,305
In Great Britain March 15, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 15, 1966
10 Claims. (Cl. 250—17)



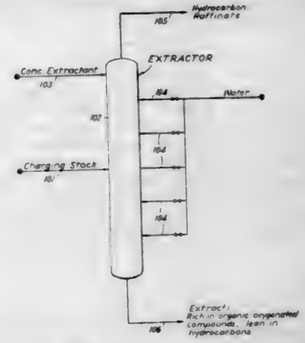
1. An ultra high frequency radio transmitter unit comprising a resonant section of a coaxial transmission line, a screening header closing each end of said section, a thermionic valve having at least a cathode, an anode, and a control grid electrode energised from external sources, said anode and grid electrodes having disc seals coupled respectively to the inner and outer conductors of said resonating section at one end, and a transverse slot aerial in said outer conductor arranged parallel to and adjacent the connection between said grid disc seal and said outer conductor.

2,535,068
SUBMARINE DETECTING DEVICE
Ellis A. Johnson, Chevy Chase, Md.
Application September 6, 1941, Serial No. 409,774
20 Claims. (Cl. 89—1.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a system of the character disclosed for detecting and recording signals indicative of the presence of a submarine, a gradient device including a pair of opposedly connected non-rotating search coils adapted to generate said signals in response to variations in the intensity of the magnetic field within each of the coils, an electro-responsive device operatively connected to said coils and having an element adapted to be actuated to settings corresponding to the difference between the instant values of the flux through each of said coils, and means controlled by said element for recording said signals.

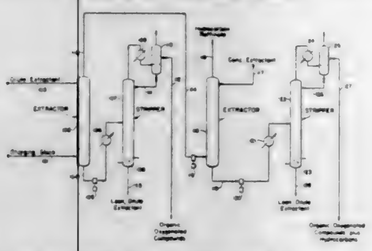
10. In a system of the character disclosed for attacking a submarine from an aircraft in flight, a pair of non-rotating opposedly connected search coils arranged in predetermined space relation on said aircraft and adapted to generate variable signal indications of opposite polarity in accordance with variations in the intensity of the earth's magnetic field within each of the coils, an explosive depth charge releasably supported by said aircraft, and means including a voltage integrating device operatively connected to said coils and responsive to the gradient of the magnetic field of the submarine detected by the coils for releasing the depth charge as the polarity of said signal indications is reversed during the passage of the aircraft over the submarine.

2,535,069
SEPARATION OF ORGANIC OXYGENATED COMPOUNDS FROM HYDROCARBONS
Everett A. Johnson, Park Ridge, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 12, 1948, Serial No. 43,888
11 Claims. (Cl. 260—450)



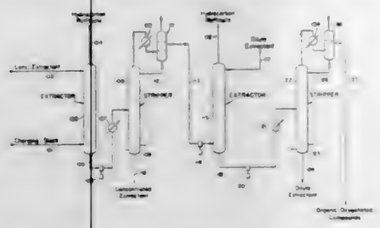
1. In a process for separating a preferentially oil-soluble organic oxygenated compound selected from the group consisting of alcohols, aldehydes, and ketones from a solution thereof comprising predominantly hydrocarbons by contacting said solution with an aqueous extractant solution containing a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, and withdrawing an aqueous extract containing said preferentially oil-soluble organic oxygenated compound, the improvement which comprises effecting said contacting in a plurality of stages in countercurrent flow while progressively diluting said extractant solution with water, said extractant solution initially containing more than 30 percent by weight of said salt, and finally containing less than 30 percent by weight of said salt.

2,535,070
SEPARATION OF ORGANIC OXYGENATED COMPOUNDS FROM HYDROCARBONS
Scott W. Walker and James E. Latta, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 12, 1948, Serial No. 43,946
8 Claims. (Cl. 260—450)



1. In a process for separating a preferentially oil-soluble organic oxygenated compound selected from the group consisting of alcohols, aldehydes, and ketones from a solution thereof comprising predominantly hydrocarbons, the steps which comprise contacting said hydrocarbon solution with a first aqueous extractant solution containing less than 30 percent by weight of a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, withdrawing an aqueous extract containing said organic oxygenated compound and a hydrocarbon raffinate containing a diminished proportion of said organic oxygenated compound, and contacting said hydrocarbon raffinate with a second aqueous extractant solution containing above 30 percent by weight of a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, whereby an additional quantity of said organic oxygenated compound is removed from said hydrocarbon raffinate.

2,535,071
SEPARATION OF ORGANIC OXYGENATED COMPOUNDS FROM HYDROCARBONS
Scott W. Walker, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 12, 1948, Serial No. 43,947
12 Claims. (Cl. 260—450)



1. In a process for separating a preferentially oil-soluble organic oxygenated compound selected from the group consisting of alcohols, aldehydes, and ketones from a solution thereof comprising predominantly hydrocarbons, the steps which comprise contacting said hydrocarbon solution with a first aqueous extractant solution containing above 30 percent by weight of a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, withdrawing a first aqueous extract phase containing said organic oxygenated compound and a hydrocarbon, separating from said first aqueous extract phase an organic mixture consisting essentially of said organic oxygenated compound and said hydrocarbon, contacting said organic mixture with a second aqueous extractant solution containing less than 30 percent by weight of a substantially non-surface-active salt of a preferentially oil-soluble carboxylic acid, withdrawing a second aqueous extract phase containing said organic oxygenated compound in increased ratio to said hydrocarbon, and separating said organic oxygenated compound from said second aqueous extract phase.

2,535,072
ANTENNA GUY FITTING
Robert Katz, Yellow Springs, Ohio
Application March 1, 1945, Serial No. 580,452
5 Claims. (Cl. 174—73)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

5. A static electrical energy discharge minimizing electrical coupling, comprising the combination of a first plug having a slot in one end remote from a depression in its opposite end with a circumferentially disposed groove interposed therebetween, a pin extending transversely of the slot in said first plug, a first plug flange at the edge of the plug groove remote axially from the plug slot, a hollow cylinder attached at one end by overlying said first plug flange and entering the groove in said first plug, an open ended cap for disposition outwardly of said first plug and adjustable axially thereof so that the edge of the open end of the said cap substantially engages said cylinder overlying said first plug flange to impart a substantially smooth external surface to the junction therebetween, a second plug secured in the end of said cylinder remote from the first plug, a link shank slidable axially of said cylinder through an aperture in said second plug and bearing a link at one end and threaded at its opposite end, a head mounted on the threaded end of said link shank, a nut on the threaded end of said link shank for securing the head thereon, and a compression spring restrained between said second plug and said head within said cylinder for imparting resilience between said pin and said link on said link shank.

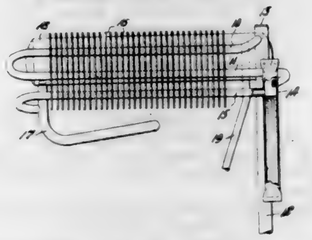
2,535,073
PRODUCTION OF PSEUDO-KRYPTOGENINS FROM KRYPTOGENINS
Stephen Kaufmann and George Rosenkranz, Mexico City, Mexico, assignors to Syntex, S. A., Mexico City, Mexico, a corporation of Mexico
No Drawing. Application September 19, 1949, Serial No. 116,623
4 Claims. (Cl. 260—239.55)

1. A process for the production of a cyclopentanophenanthrene compound selected from the group consisting of pseudo-kryptogenin diacetate and pseudo-5,6 dihydrokryptogenin diacetate comprising reacting a compound selected from the group consisting of kryptogenin diacetate and 5,6 dihydrokryptogenin diacetate, with acetic anhydride under reflux conditions in the presence of a catalytic amount of an aromatic sulphonic acid.

2,535,074
SKIRT MARKER
Aurelia Relia Koch, West Hollywood, Calif.
Application March 2, 1948, Serial No. 12,631
2 Claims. (Cl. 33—9)

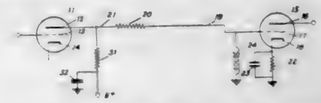
1. In a skirt marker having a base adapted to be placed on a level reference surface, and said base being provided with a socket, in which is mounted a vertical standard having a series of vertically and equi-distantly spaced transverse openings, the improvement comprising a U-shaped marker frame forming a pair of prongs adapted to be received in alternate sets of said openings, a marker supporting arm pivotally attached to the curve of said U-shaped frame in alinement with the intermediate opening of said alternate sets and a series of marking pins supported on the end of said marker arm adapted to penetrate the fabric of a garment to form a hem line indicating mark and the marking pins being arranged to extend radially with relation to said marking arm.

2,535,075
ABSORPTION REFRIGERATION
Wilhelm Georg Kögel, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application May 4, 1945, Serial No. 592,001
In Sweden May 9, 1944
5 Claims. (Cl. 62—119.5)



1. In an absorption refrigeration system of the type using a pressure equalizing gas, a condenser, a vapour conduit for supplying vapour to the condenser, a vessel in heat exchange relation with the vapour conduit and connected between the condenser and a delivery pipe to cause a continuous flow of condensate therethrough, said delivery pipe being so connected to the vessel as to maintain a body of liquid condensate in the vessel to cool and separate absorbent from refrigerant in the vapour conduit and deliver condensate above a predetermined level adjacent the top of the vessel, and said vapour conduit being disposed exteriorly of and in heat exchange relation only with the outer peripheral surface of said vessel at one side of the latter along a vertically extending region thereof to transfer heat to the body of liquid condensate asymmetrically to cause an upward flow of liquid at said one heated side and a downward flow at the opposite side whereby to cause a continuous circulation and mixing of the liquid condensate in the vessel.

2,535,076
RADIO AMPLIFIER CIRCUITS
Clarence E. Koontz, Jr., Washington, D. C.
Application May 4, 1942, Serial No. 441,733
4 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

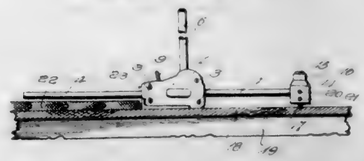


1. A radio pulse amplifier having quick recovery characteristics from the receipt of recurrent, saturating impulses, comprising at least two electron amplifier tubes each having anode, grid and cathode electrodes, a critically damped signal coupling network including a first shunt arm forming the anode load for one tube and a second shunt arm forming an alternating current grid return for the next tube, and a series arm connecting the anode of said one tube to the grid of said next tube, one shunt arm of said network comprising a high impedance radio frequency inductance coil and the other a resistance, said series arm consisting of a resistance, the resistances of said network having values relative to the impedance of said inductance to provide critical damping of said inductance.

2,535,077
GERMICIDAL SOAPS CONTAINING HALOGENATED DIHYDROXY DIPHENYL METHANES
Eric C. Kunz and William S. Gump, Montclair, N. J., assignors, by mesne assignments, to Sindar Corporation, a corporation of New Jersey
No Drawing. Application January 20, 1944, Serial No. 519,000
14 Claims. (Cl. 252—107)

1. A germicidal detergent soap comprising soap and a minor proportion of 2,2'-dihydroxy halogenated diphenyl methane.

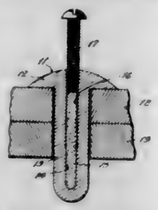
2,535,078
EXPANSION AND CONTRACTION TOOL
Herbert D. La Mont, Huntington, Ind.
Application September 10, 1947, Serial No. 773,204
5 Claims. (Cl. 254—106)



2. An expansion and contraction tool comprising a rod member, headers attachable to opposite ends of said rod member one of said headers including means for adjustably gripping said rod member comprising a housing for the pas-

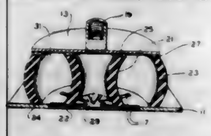
sage of said rod member, an operating lever fulcrum in said housing, an operating lever extending into said housing and around said rod member and pivoted on said operating lever fulcrum on the side opposite its point of entry into said housing, a gripping member surrounding said rod member and actuated by said operating lever, spring means interposed between said housing and said gripping member, and an auxiliary gripping member surrounding said rod member and separated from said operating lever fulcrum by a separate spring, said auxiliary gripping member engaging said rod member at a position spaced longitudinally from the position at which said first-mentioned gripping member engages said rod member.

2,535,079
METHOD OF UPSETTING A HOLLOW RIVET
Herbert A. Lebert, Cheyenne, Wyo., assignor to United Air Lines, Inc., Chicago, Ill., a corporation of Delaware
Application May 2, 1944, Serial No. 533,781
3 Claims. (Cl. 218—29)



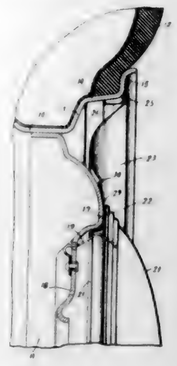
1. The method of riveting which comprises providing a rivet having in the shank portion thereof a fluid-tight cavity provided with a single access internally screw-threaded opening, screwing a closely fitting screw-threaded nozzle into said opening to close the same, and setting said rivet by forcing fluidic material into the cavity through said nozzle under sufficient pressure to expand said rivet shank portion beyond its yield point.

2,535,080
MOUNTING
Norman E. Lee, Forest Hills, N. Y.
Application June 7, 1945, Serial No. 598,197
5 Claims. (Cl. 248—22)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A mounting comprising a base plate; a load plate substantially parallel thereto; a pair of inner and outer concentric tubular spring members, disposed intermediate said plates and substantially normal thereto, the said spring members being of springy flexible material, and the opposite ends thereof being secured respectively to the base and load plates; said inner and outer spring members respectively being bowed inwardly and outwardly at their central portions; so as to form two enclosed hydraulic chambers, one chamber being within the inner spring member and the other chamber being outside the inner spring member and within the outer spring member; a restricted orifice connecting said chambers; a hydraulic medium within raid chambers; so that upon movements of the plates, relative to each other and substantially longitudinal of the spring members, the spring members will be subjected to flexure and the hydraulic medium will be caused to flow between the chambers aforesaid through the orifice aforesaid.

2,535,081
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application July 29, 1947, Serial No. 764,353
3 Claims. (Cl. 301—37)

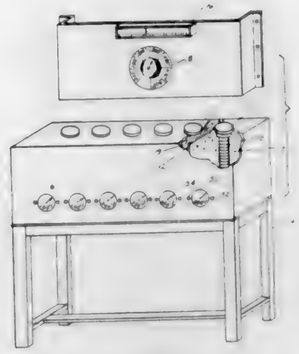


1. In a wheel structure including a multi-flange, drop center type of tire rim having an intermediate generally axially extending flange and a load sustaining body part having a dished central bolt-on portion covered by a hub cap, a trim ring member formed to extend radially from a substantially concealing relation to the outer side of the tire rim to the body part of the wheel and clamped to the body part by the hub cap, the radially outer margin of the trim ring being turned inwardly upon itself to extend generally radially inwardly and then axially inwardly and formed with a reinforcing out-turned marginal bead engageable in slidable frictional relation with the opposing intermediate flange of the tire rim for holding the trim ring in a self-centered, self-tensioned, adjusted and self-retained relation to the wheel structure.

2,535,082
ACETONITRILE PRODUCTION
John E. Mahan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application December 15, 1947, Serial No. 791,932
14 Claims. (Cl. 260—465.3)

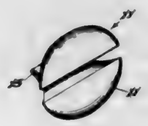
1. A process for the preparation of acetonitrile which comprises reacting an aliphatic monoolefin having at least three and not more than five carbon atoms per molecule with ammonia in vapor phase at a temperature within the range of from 900 to 1400° F. in the presence of a catalytically active solid contact material comprising an association of a major proportion of silica and a minor proportion of at least one oxide of a metal selected from the class consisting of the metals aluminum, indium and thallium of group IIIB and titanium, zirconium and thorium of group IVA of the periodic system.

2,535,083
APPARATUS FOR CALIBRATING DISTANT-READING TEMPERATURE DEVICES
Philip Martin, New York, N. Y.
Application June 21, 1946, Serial No. 678,178
1 Claim. (Cl. 73—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



Thermometer-testing apparatus comprising a plurality of tubular housings defining a series of thermometer-testing chambers, electrical-resistance windings about each tube for heating the chambers each to a different temperature to form a series of graduated-temperature chambers, an adjustable resistor connecting each winding with an electrical source for regulating current flow through each winding to regulate the temperature of each chamber, a first signal light in series with each resistor, a shunt for by-passing each resistor and first signal light, a second signal light in series with each shunt, a switch for selectively connecting each winding with the corresponding resistor and first signal light or the corresponding shunt and second signal light, a thermocouple connected with each chamber, a pyrometer, and a selector switch for connecting the pyrometer with a selected thermocouple.

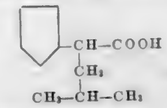
2,535,084
LIP GUARD
Edward J. Meunier, Johnston, R. I.
Application April 1, 1948, Serial No. 18,440
3 Claims. (Cl. 2—174)



1. A guard for the lips comprising a pair of members each being of a size to cover one of the lips and each member being arcuate lengthwise and laterally thereof to receive the lips therein and an integral connecting strip adapted to be inserted in the mouth when folded and having its opposite ends attached to said members.

2,535,085
CYCLOPENTYL-ISOBUTYL-ACETIC ACID
Robert B. Moffett, Kalamazoo, Mich., and Charlotte Anne Hart, Kansas City, Mo., assignors to George A. Breon and Company, Kansas City, Mo., a corporation of Missouri
No Drawing. Application February 8, 1949, Serial No. 75,302
2 Claims. (Cl. 260—514)

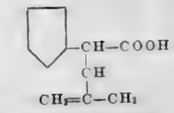
1. A member of the group consisting of cyclopentyl-isobutylacetic acid having the formula



and non-toxic salts thereof.

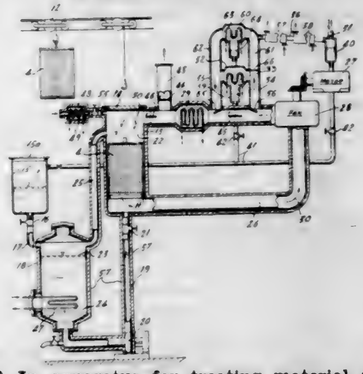
2,535,086
CYCLOPENTYL-(2-METHYLALLYL)-ACETIC ACID
Robert B. Moffett, Kalamazoo, Mich., and Charlotte Anne Hart, Kansas City, Mo., assignors to George A. Breon and Company, Kansas City, Mo., a corporation of Missouri
No Drawing. Application February 8, 1949, Serial No. 75,303
2 Claims. (Cl. 260—514)

1. A member of the group consisting of cyclopentyl-(2-methylallyl)-acetic acid having the formula



and non-toxic salts of said acid.

2,535,087
APPARATUS FOR IMPREGNATING HEAT INSULATING MATERIAL
Carl Georg Munters, Stocksund, Sweden
Application July 20, 1945, Serial No. 606,199
In Sweden June 6, 1940
19 Claims. (Cl. 91—55)



19. In apparatus for treating material with an impregnating agent dissolved in a solvent, means including a chamber providing a closed circuit for solvent containing gas, means for circulating gas through said circuit, said chamber being located on the suction side of said circulating means to be maintained thereby at subatmospheric pressure, heating means for the gas in the circuit located between said circulat-

ing means and said chamber, means for admitting air to said chamber to mingle with the gas circulating in said circuit, conduit means communicating with said circuit between said circulating means and said heating means for flow of excess gas from the circuit to prevent rise of gaseous pressure in the circuit above substantially atmospheric pressure, and condensing means in said conduit means for condensing solvent vapor from the gas passing therethrough.

2,535,088
RASP UNIT
Peter C. Neilsen, Chicago, Ill.
Application August 8, 1947, Serial No. 767,587
1 Claim. (Cl. 29—78)

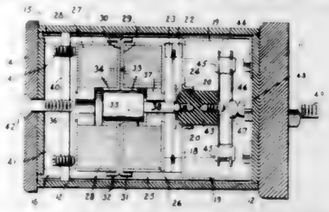
A rasp unit comprising a strip of steel having a plurality of elongated, sharp pointed cutting and abrading prongs projecting upwardly therefrom and spaced along opposite longitudinal edges thereof, the prongs along one edge being staggered with respect to the prongs along the other edge, each prong on each side of the strip having a sharp cutting edge which extends along the full length thereof, the cutting edges of the prongs along one edge of the strip being oppositely facing with respect to the cutting edges of the prongs along the other edge of the strip, each facing outwardly of the strip in a direction transversely of the length thereof, the side face of each prong opposite said cutting edges being flat and positioned inwardly of said strip, said cutting edge of each prong lying along the outer edge of the strip, each prong being curved in a direction outwardly of the strip, whereby as the strip is moved transversely of its length in a cutting operation, the prongs positioned along the leading edge of the strip present their cutting edges to the work and lean into it to cut, and the prongs along the following edge of the strip present their flat faces to the work and lean away from it so that the trailing cutting edges are buffed by it.

2,535,089
INSECT REPELLENTS
Melvin S. Newman, Columbus, Ohio, and Barney J. Magerlein, Kalamazoo, Mich., assignors to the United States of America as represented by the Secretary of the Army
No Drawing. Application December 29, 1948, Serial No. 68,044
7 Claims. (Cl. 167—33)

1. An insect-repellent fabric comprising fabric impregnated with the allyl ester of alpha-methyl-epoxy-cyclohexylidene-acetic acid.

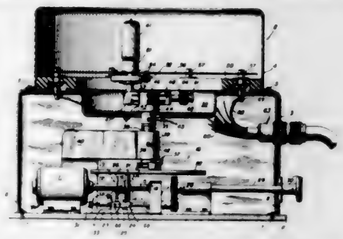
2,535,090
SNAP SPRING OPERATED SWITCH
Joseph F. O'Brien, Lebanon, and Earl S. Boynton, East Orange, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Original application October 30, 1943, Serial No. 508,298. Divided and this application March 4, 1947, Serial No. 732,307
6 Claims. (Cl. 200—67)

1. For bridging the fixed contacts of an open electrical circuit, movable contacts disposed adjacent the fixed contacts for movement thereagainst, a metallic contact bridge carrying said movable contacts, and means for moving said movable contacts into engagement with the fixed contacts of the circuit, said means comprising a rim-confined snap spring, a flat spring spaced apart from and fixed to said contact bridge at



points thereon spaced angularly from said movable contacts, and a rigid member centrally connecting said snap spring centrally with said flat spring, whereby said movable contacts will have a substantial measure of self-adjustability in their engagement with the fixed contacts, and whereby engagement of said movable contacts with said fixed contacts will be dampened by the resiliency of said flat spring.

2,535,091
CENTRIFUGAL VACUUM TUBE TESTER
Robert G. Quick, Silver Spring, Md.
Application September 21, 1949, Serial No. 116,883
14 Claims. (Cl. 315—364)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

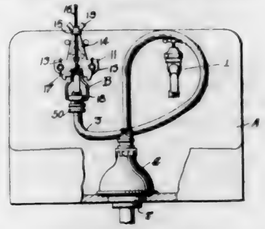


1. A vacuum tube tester of the character disclosed and adapted to apply controlled acceleration shock to an electronic tube under test including, in combination, a fixed support, a receptacle for receiving therein the tube to be tested, a support for said receptacle mounted for rotary movement about the axis of said tube, a rotatable driving shaft, an arm adjustable laterally from the axis of rotation of said shaft and adapted for supporting thereon said receptacle, driving means operatively connecting said shaft and including a variable speed source for applying rotation thereto thereby to cause said receptacle to prescribe a circular orbit about said shaft at a velocity controlled by said source, and yieldable means operatively connecting said receptacle to said fixed support for preventing rotation of the tube about its axis as it is moved about the axis of the shaft.

2,535,092
SINK, LAVATORY, AND COMMODE CLEANER
Frederick S. Rettinger, Battle Creek, Mich.
Application June 9, 1948, Serial No. 31,865
2 Claims. (Cl. 285—108)

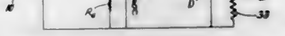
1. A sink and commode drain cleaner comprising, a head, a flexible hose secured to and

communicating with the interior of the head, a hose coupling secured to the other end of the hose, an externally threaded adaptor adapted to be secured over a spigot outlet to receive the hose coupling externally thereon, clamping means for securing the adaptor to the spigot outlet, and said clamping means comprising a circular clamp adapted to securely engage the valve



body of the spigot fixture, a short leg supported from the clamp horizontally above the spigot, an elongated bar vertically adjustably supported from the horizontal leg, a bifurcated member suspended from the bottom of the vertical bar, and an adaptor pivotally supported between the bifurcations of the bifurcated member for the purpose described.

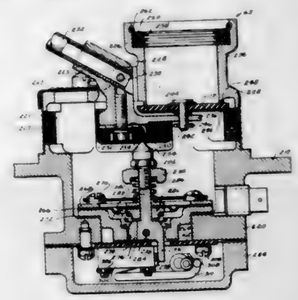
2,535,093
IMPULSE GENERATING SYSTEM AND NETWORK THEREFOR
Preston Robinson, Williamstown, William M. Allison, North Adams, and Nelson E. Beverly, Williamstown, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application August 25, 1945, Serial No. 612,690
6 Claims. (Cl. 178—44)



4. An electrical network comprising two cascades of series-inductance, shunt-capacitance meshes, with all inductances of both cascades connected in series, input terminals connected to the extreme ends of the inductances and to the junction of inductances between the two cascades, and a separate output terminal connected to the common shunt capacitance lead of each cascade, said cascades possessing different impedance values.

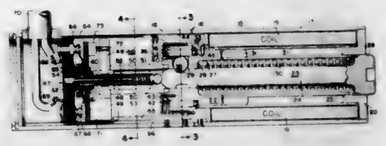
2,535,094
CONTINUOUS FLOW MULTIPLE TANK FUEL SYSTEM
David Samiran, Fort Wayne, Ind.
Original application August 1, 1945, Serial No. 608,348, now Patent No. 2,516,150, dated July 25, 1950. Divided and this application December 23, 1949, Serial No. 134,795
3 Claims. (Cl. 177—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a continuous flow fuel system for an aircraft, a main tank, a drop tank, a fuel outlet control means at the outlet of the drop tank through which the fuel flows from the drop tank to the main tank, a signal associated with said control means, means in the drop tank operative at a predetermined low level of the fuel in the drop tank to operate said signal, and means op-



erative upon an empty tank condition in said drop tank to discontinue said signal and close said fuel outlet control means.

2,535,095
BOMB SHACKLE RELEASE
Daniel E. Schwartz, Narrowsburg, and Robert E. Kemelhor, Bronx, N. Y.
Application July 23, 1948, Serial No. 40,413
16 Claims. (Cl. 74—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

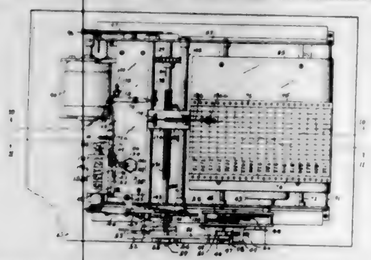


1. A bomb release mechanism actuated by an electrical impulse, said mechanism comprising: a loaded member; locking means for retaining said member in cocked position; means energizable by the impulse for generating a magnetic field; and biased rotatable means positioned coaxial with said member and rotatably actuated by the magnetic field against said bias for releasing said locking means from said loaded member, said loaded member being arranged to move into operative position upon release of said locking means.

2,535,096
WELL LOGGING RECORDER
Herschell R. Scivally, Shreveport, La.
Application August 23, 1946, Serial No. 692,503
5 Claims. (Cl. 346—39)

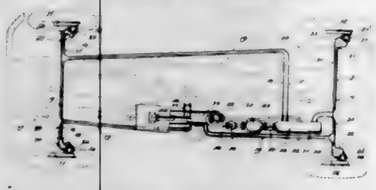
1. A well logging machine for use in connection with rotary drilling equipment having a rotatable drill stem, which comprises, means holding and advancing a movable record receiving element, said means connecting with said rotary drilling equipment in a manner to advance said record receiving element at a rate of speed determined by the speed of the downward movement of said drill stem, a stylus movably positioned above and adapted to mark said record receiving element, a power driven screw shaft and gearing connecting the latter with said stylus, a movable clutch and gearing connecting said screw shaft with a driving means to rotate the latter at selected rates of speed, linkage and gear-

ing connecting said clutch with said means for holding and advancing said record receiving element, said linkage and gearing operative with said advancing means to move said movable clutch and reverse the direction of rotation of



said screw shaft and the direction of movement of said stylus, and providing thereby a marked record of the time consumed for a predetermined increment of downward movement of said drill stem.

2,535,097
BRAKE MECHANISM
Paul D. Seghers, New York, N. Y.
Application March 22, 1945, Serial No. 584,121
11 Claims. (Cl. 188—92)

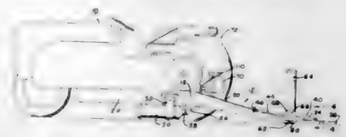


1. Brake mechanism for a wheeled vehicle comprising a rotary pump continuously operated by a wheel of the vehicle, a closed liquid circulating system including a low pressure conduit carrying liquid to the inlet port of said pump and a high pressure conduit carrying liquid from the outlet port of said pump, an air dome, means for connecting the high pressure conduit of said liquid circulating system with said air dome, and means for throttling the liquid circulating system on the low pressure side of said air dome to brake the vehicle.

2,535,098
GAMMA - VALEROLACTONE AND GAMMA - BUTYROLACTONE AS DYEING ASSISTANTS FOR CELLULOSE ESTER AND ETHER YARNS AND FABRICS
Seth U. Shorey, Oakland, Mo., and George W. Wright, Boston, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 13, 1947, Serial No. 754,602
18 Claims. (Cl. 8—59)

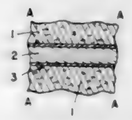
3. The process of dyeing a synthetic textile in the form of yarns and fabrics made of a substance selected from the group consisting of cellulose esters and water-insoluble cellulose ethers comprising contacting said textile with a dye liquor comprising a dyestuff which when applied from said dye liquor has an affinity for said textile, 5–35% by volume of a lactone selected from the group consisting of gamma-valerolactone and gamma-butyrolactone, and water, said dye liquor being maintained at a temperature in the range of 20–45° C., and subsequently washing the textile substantially free from residual dye liquor, the period of time from the initial contact of said textile with said dye liquor until the washing of said textile being less than 50 seconds.

2,535,099
BRUSH PULLER
Thomas Slick, San Antonio, Tex., assignor to Institute of Industrial Research, San Antonio, Tex., a foundation of Texas
Application August 9, 1947, Serial No. 767,783
15 Claims. (Cl. 254—132)



6. In combination with a tractor; a first frame pivoted at one end on transverse axis means at one end of said tractor; jaw members vertically pivotally mounted at the other end of said first frame; motor means selectively energizable for actuating said jaw members; a second frame also pivotally mounted at one end on said axis means and having a pad at its other end extending across beneath said other end of the first frame and between said jaw members and said tractor; motor means selectively energizable for urging the said other ends of said frames apart; arms extending downwardly from the said one end of said second frame adjacent said axis; and motor means connected between said arms and said tractor and selectively energizable for elevating said frames about their pivotal connection with said tractor into carrying position.

2,535,100
PROCESS FOR PRESTRESSING CEMENT PRODUCTS
James A. Sourwine, Washington, D. C.
Application January 17, 1949, Serial No. 71,401
7 Claims. (Cl. 25—154)

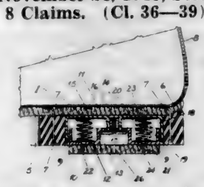


1. A method for making a prestressed metal-reinforced cement product unit of methyl-benzene cementitious mix, comprising precoating the metal reinforcement units with a coating material which is slowly soluble in the liquid constituent of the cement product mix, whereby the surface bond between each metal reinforcement unit and the cement body will be destroyed during the hardening of said cement body, allowing said cement mix to harden, prestressing in tension the debonded metal reinforcement units after the said cement body has hardened into unit form, and prestressing in compression the said hardened cement body, thereafter securing the ends of the several prestressed metal reinforcement units to the said hardened cement body unit.

2,535,101
SULFONATE BASE LUBRICATING GREASE
Lorne W. Sproule and Warren C. Pattenden, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 18, 1948, Serial No. 15,747
9 Claims. (Cl. 252—33)

1. A grease composition consisting essentially of mineral lubricating oil containing 5 to 25% by weight, based on the total composition, of an oil soluble sulfonate having a sulfonate radical molecular weight of more than 300 and not substantially greater than about 500, and 3 to 20% of a non-oil soluble sulfonate of a sulfonic acid having a molecular weight between 96 and 250, the combined sulfonates being effective to impart a grease-like consistency to said oil.

2,535,102
SHOE HEEL
James Walton Taylor, Los Angeles, Calif.
Application November 24, 1945, Serial No. 630,622
8 Claims. (Cl. 36—39)



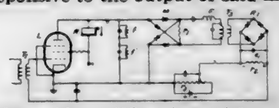
1. A cushion insert for a shoe heel, comprising upper and lower telescoping cylindrical members separated by springs, and connected by a stop screw, said upper member having a central depending boss containing a threaded hole to receive said stop screw, and said lower member having a raised central boss to accommodate the head of said stop screw.

2,535,103
METHOD FOR IMPROVING THE STRENGTH OF ARTIFICIAL INSOLUBILIZED PROTEIN FILAMENTS
David Traill, Ardrossan, and George K. Simpson, Fairlie, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 23, 1948, Serial No. 45,794. In Great Britain December 22, 1947
8 Claims. (Cl. 8—127.6)

1. A method for improving the strength of artificial insolubilized filaments obtained from coagulated wet spun protein filaments which comprises treating the insolubilized filaments while under tension with an aqueous solution of an ionizable mercuric salt.

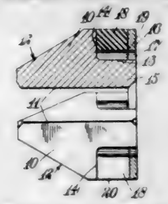
2,535,104
SELECTIVE SIGNALING EQUIPMENT ONLY OPERATIVE BY TWO-VOICE FREQUENCIES
Stanislas Van Mierlo, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1947, Serial No. 726,379
In Switzerland December 26, 1944
9 Claims. (Cl. 179—84)

1. Voice frequency signaling equipment comprising an amplifying circuit having an amplifier element therein, means for normally maintaining said amplifier element in a low condition of conduction, means for simultaneously applying to the input of said amplifier element, when in said low condition of conduction, incoming signals having different frequencies therein, frequency selective means in the said amplifying circuit for selecting a predetermined plurality of said different frequency signals, a modulator in the output of said amplifying circuit for intermodulating the plurality of selected signal frequencies, means responsive to the output of said modulator



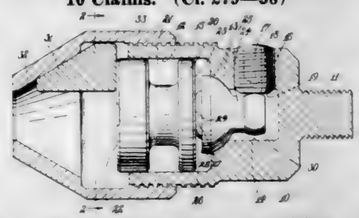
for changing said amplifier element from said low condition of conduction to a high condition of conduction, and signal operative means in the output of said amplifying circuit means whereby said signal operative means is responsive to the output of said amplifier element only during the operation of said element in said high condition of conduction.

2,535,105
COLLET AND CHUCK JAWS
Charles Henry Vidal, London, England; Eileen Mavis Vidal executrix of said Charles Henry Vidal, deceased
Application June 30, 1947, Serial No. 758,164
In Great Britain November 15, 1946
9 Claims. (Cl. 279—46)



7. A unit assemblage of jaws for a chuck comprising a ring, a number of jaws extending away from said ring and grouped around an axis transverse thereto, each of which jaws has a face inset from the end thereof so as to provide a part which projects into the ring while the inset face is arranged opposite the face of the ring and a separate rubber portion bonded between the inset face of each jaw and the opposed face of the ring leaving the other faces of the jaws unconnected so as to permit movement of the jaws towards and away from said axis.

2,535,106
SELF-CENTERING CHUCK
Charles Henry Vidal, London, England; Eileen Mavis Vidal executrix of said Charles Henry Vidal, deceased
Application June 30, 1947, Serial No. 758,165
In Great Britain October 10, 1946
10 Claims. (Cl. 279—58)



10. A self-centering chuck comprising a hollow chuck body having an internal camming face, a number of jaws engaging said face, a plunger engaging said jaws and movable along the axis

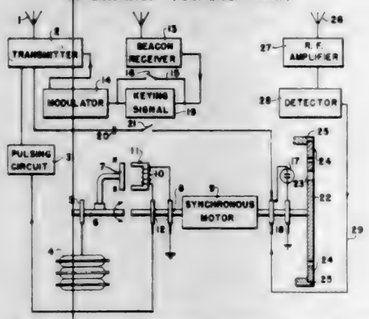
of rotation of the chuck, a lever mounted in said chuck body so that a part thereof pivots on a part of the chuck body about an axis transverse to and fixed against movement along the rotation axis, the longitudinal axis of which lever is inclined to said rotation axis and the end of which lever abuts and rocks against said plunger and means for imparting pivotal movement to said lever.

2,535,107

NAVIGATIONAL SYSTEM

Marcel Wallace, Fairfield County, Conn., assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y., a corporation of New York

Application April 19, 1946, Serial No. 663,316
26 Claims. (Cl. 343—112)



1. A navigational system comprising unitary means for indicating the altitudes of each of a plurality of craft, and said unitary means comprising further means for indicating the lateral positions of said plurality of craft with respect to a predetermined course.

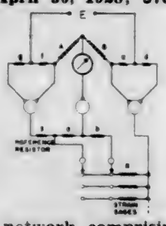
13. A navigational system for aircraft comprising a transmitter aboard an aircraft, means for pulse modulating said transmitter with pulses timed to represent altitude of said aircraft, means for modulating said pulses with signals significant of course flown by said aircraft, remote means for receiving said pulses and for providing altitude significant indications in response thereto, and means for modifying said altitude significant indications to indicate said course.

2,535,108

MULTIPLE BRIDGE CIRCUIT

Isidore Warshawsky, Rocky River, Ohio

Application April 24, 1947, Serial No. 743,579
2 Claims. (Cl. 323—75)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



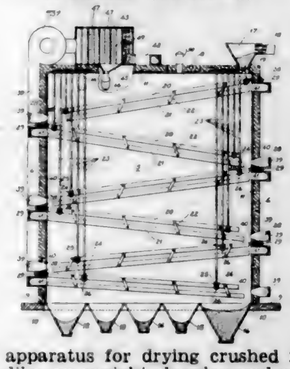
1. A bridge network, comprising: an electrical bridge having four impedance arms, two arms comprising a shunt path of said bridge consisting of a reference resistor and at least one impedance strain gage selectively connected into said bridge thru means including a pair of synchronously rotatable slip-rings, a switch having a pair of input contacts rotatable therewith one being connected to a slip-ring thru said reference resistor said slip-ring being connected to an adjacent arm of said bridge thru a brush and the other input contact being connected to said reference resistor thru a pair of series connected auxiliary impedances the common connection between said auxiliary impedances being connected to the other of said paired slip-rings, which is provided with a brush adapted for an electrical connection thereto, at least a pair of interconnected output contacts complementary to said input contacts connected to synchronously rotatable third slip-ring thru said strain-gage said third slip-ring being connected to the remaining bridge arm thru a brush, and a second pair of series connected auxiliary impedances connecting each of the adjacent arms to the first and third slip-rings thru brushes, the common connection between said auxiliary impedances of each of the second pairs being adapted for electrical connection to opposite terminals of the bridge, respectively.

2,535,109

DRYING APPARATUS

Paul L. Wigton, Denver, Colo.

Application September 5, 1944, Serial No. 552,729
12 Claims. (Cl. 209—3)



1. In apparatus for drying crushed minerals, and the like, an upright chamber and a series of conduits connected therewith; a series of elongated perforated conveyors mounted transversely within said chamber, each said conveyor being inclined from one end downwardly toward the other; means for supplying material to be dried to said one end; means for heating air and discharging said heated air through said conduits and into said chamber and toward each said conveyor through openings in said chamber adjacent the lower end of each said conveyor thereof; means for vibrating each said conveyor; and means for collecting dried material at the bottom of said chamber and affording removal of the material therefrom.

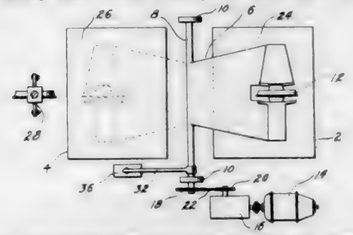
2,535,110

METHOD OF HEAT-TREATING WHEELS

Harold B. Wishart, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application February 28, 1946, Serial No. 650,987
3 Claims. (Cl. 148—21.55)

1. The method of heat-treating steel railway wheels which comprises heating a wheel throughout to a temperature above its transformation point, seizing the wheel hub between opposed, horizontally aligned gripping heads, manipulating said heads to lower the rim of the wheel only into a quenching liquid and rotating the wheel while maintaining the hub and web plate of the wheel above said transformation point, and then quenching the entire web plate and rim of the wheel substantially simultaneously by contact with a quenching medium while maintaining engagement of said heads with the hub, thereby shielding the hub at least in a substantial zone adjacent the axis thereof from contact with the quenching medium.

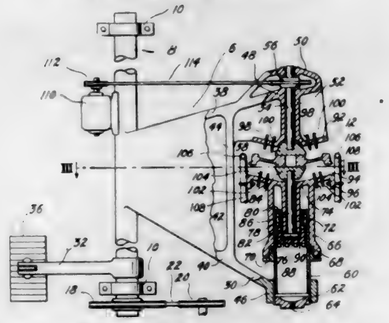


2,535,111

APPARATUS FOR HEAT-TREATING WHEELS

Harold B. Wishart, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Original application February 28, 1946, Serial No. 650,987. Divided and this application October 11, 1946, Serial No. 702,623
14 Claims. (Cl. 134—105)



1. In railway-wheel heat-treating apparatus, a tilting manipulator arm having a gripper head at the outer end for holding the wheel and rotating it while it is subjected to quenching, said gripper head including spaced opposed wheel-engaging members journaled in the head, one of said members being slidable toward and from the other, said members engaging the wheel on opposite sides thereof at the hub and being adapted to shield the hub from contact with the quenching medium, and means for tilting said arm toward and from a quenching bath.

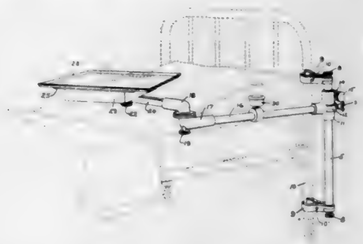
2,535,112

ADJUSTABLE BEDSIDE STAND AND TRAY

Ross B. Woody, Los Angeles, Calif.

Application August 14, 1946, Serial No. 690,508
1 Claim. (Cl. 5—317)

An adjustable bedside stand comprising a bracket adapted to be clamped to a supporting post, a support embodying pivotally connected tubular members mounted on the bracket, a box-like body secured to one end of the support, the front only of the box-like body being open, a hinged closure normally closing the open front of the box-like body, a tray pivotally connected to the upper front edge of the box-like body, a marginal inclined flange formed on the tray and extending laterally beyond the edges of the tray, the top of the body having a recess formed therein, the recessed portion of the top having notches formed in spaced relation with respect to each other, a prop pivotally connected to the bottom of the tray, and the free end of the prop engaging within the notches supporting the tray in various inclined positions with respect to the top of the box-like body, said prop folding into the recessed portion of the top when the tray is swung downwardly into engagement with the top of the box-like body.

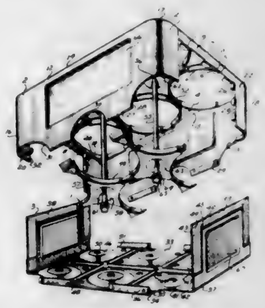


2,535,113

BOTTLE CARRIER

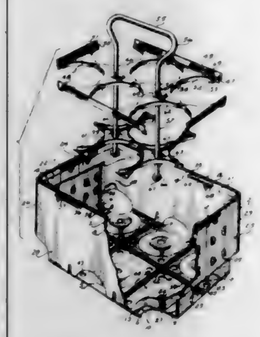
Grant M. Acton, Arkansas City, Kans., assignor to Acton Manufacturing Company, Inc., Arkansas City, Kans., a corporation of Kansas

Application March 28, 1949, Serial No. 83,789
5 Claims. (Cl. 224—48)



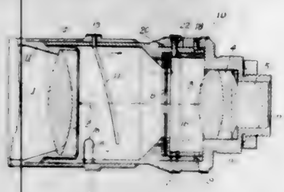
1. A bottle holder and carrier of the character described including, a bottom member, end members on said bottom and extending upwardly therefrom, an upper spacer having a plurality of apertures for receiving and substantially engaging bottles, side members on the upper spacer and extending downwardly therefrom, end portions on the side members and extending inwardly therefrom with the terminal edges overlying the adjacent edges of the end members, end flanges on the upper spacer and extending downwardly therefrom, said end flanges overlying the upper edge of the end members, means on the end portions and end flanges securing the end portions and end flanges to the end members, and a bail engaging the upper spacer for supporting the bottle carrier.

2,535,114
BOTTLE HOLDER AND CARRIER
Grant M. Acton, Arkansas City, Kans., assignor to Acton Manufacturing Company, Inc., Arkansas City, Kans., a corporation of Kansas
Application March 28, 1949, Serial No. 83,790
3 Claims. (Cl. 224—48)



1. A bottle holder and carrier of the character described including, a bottom, end members integral with said bottom and extending upwardly therefrom, side members integral with the bottom and extending upwardly therefrom, end portions integral with the side members, and extending laterally thereof to overlie the end members, means securing said end member and end portions together, an upper spacer above the bottom, said upper spacer having a plurality of apertures for receiving and substantially engaging bottles, upwardly directed flanges at sides and ends of the upper spacer, inwardly folded flanges on the upper edges of the side members and end portions thereof, said inwardly folded flanges overlying the flanges of the upper spacer, means in said flanges keying same together, and a bail for supporting the bottle carrier.

2,535,115
LENS FOR MOTION-PICTURE CAMERAS
Frank G. Back, New York, and Herbert Lowen, Forest Hills, N. Y.; said Lowen assignor to said Back
Application October 14, 1948, Serial No. 54,482
1 Claim. (Cl. 88—57)

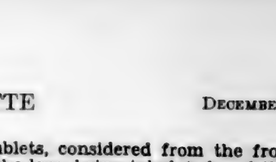


A lens unit which includes a lens tube, a series of positive doublets therein, each formed of an abutting positive crown and a negative flint with all the crowns facing the object and all the flints facing the other way, said series comprising a front doublet and two closely spaced rear doublets, the front doublet being spaced relatively a larger distance from the nearest rear doublet, the specifications of the glasses forming the several doublets, considered from the front to the rear of the lens, being tabulated as follows:

Len	Glass	Radii	Thickness and Separation
L_1	BSC–2 N_D=1.517 ν=64.5	R_1=+95.76 R_2=+87.04	T_1=17.56
L_2	DBF–1 N_D=1.617 ν=38.5	R_3=−87.04 R_4 plane	S_1=0 T_2=2.60 S_2=62
L_3	BSC–2 N_D=1.517 ν=64.5	R_5=+69.40 R_6=+69.40	S_2=25.16 T_3=18.21
L_4	DBF–1 N_D=1.617 ν=38.5	R_7=−69.40 R_8=−977.39	S_4=0 T_4=5.20
L_5	BSC–2 N_D=1.517 ν=64.5	R_9=+69.40 R_{10}=+69.40	S_5=2.60 T_5=18.21
L_6	DBF–1 N_D=1.617 ν=38.5	R_{11}=−69.40 R_{12}=−977.39	S_6=0 T_6=5.20

in which certain of the above terms are defined as follows:
R equals radius of curvature.
T equals thickness.
S equals axial spacing.
N equals index of refraction.
ν equals Abbe's dispersion number (a glass characteristic well known in the art of optics and glass making).
BSC equals borosilicate crown.
DBF equals dense barium flint.

2,535,116
DOLL JOINT
Herbert R. Beebe, Brooklyn, N. Y., assignor to American Character Doll Company, New York, N. Y., a firm
Application March 19, 1947, Serial No. 735,578
2 Claims. (Cl. 46—173)

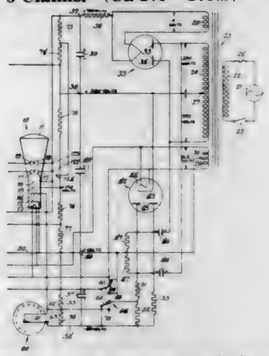


1. In a joint construction of the indicated character, a body for a toy figure, a limb member therefor having a peripheral wall inturned at its inner end, a connecting member having a dish-shaped wall and a plane rim extending peripherally about said wall and connected therewith in sharp angular relation, said peripheral rim being split at circumferentially spaced locations to provide segmental rim sections, a flat apertured member located in said connecting member within the peripheral rim thereof, said connecting member being located within the limb member with the inturned end thereof extending over said segmental sections of said peripheral rim and between the same and the peripheral edge of said flat apertured member, and said connecting member being arranged when in unconnected relation with the dish-shaped wall disposed in inwardly dished relation and the peripheral rim in outwardly flared condition and being adapted to be arranged with said dish-shaped wall disposed in outwardly dished formation to thereby effect inward movement of the segmental rim sections to secure the inturned end of the limb member between said segmental sections and the peripheral edge of said flat apertured member, an apertured backing member located within said body in engagement with the inner face thereof with the opening therein disposed in alignment with the opening in said flat apertured member, a stud extending through said aligned openings pivotally connecting the limb member to said body and provided with a series of longitudinally spaced undercut portions forming peripheral shoulders, and a locking member having spring tongues adapted to engage behind any one of said shoulders for securing the parts together.

2,535,117
PROCESS FOR RECOVERY OF GLUTAMIC ACID AND OTHER VALUES FROM STEFFEN WASTE WATER
Arthur N. Bennett, Denver, Colo., assignor to The Great Western Sugar Company, Denver, Colo., a corporation of New Jersey
No Drawing. Application June 15, 1948, Serial No. 33,228
5 Claims. (Cl. 260—527)

1. In a process for the recovery of glutamic acid from Steffen waste water, wherein Steffen waste water is maintained at elevated temperatures to hydrolyse pyrrolidone carboxylic acid therein and then is carbonated and filtered to remove calcium compounds, the steps which comprise concentrating the carbonated hydrolysed waste water until a partially concentrated liquid having a dry substance content of from 20% to 40% is obtained, acidifying the partially concentrated waste water to a pH of about 3.2, removing the solids that precipitate, and further concentrating the acidified partially concentrated liquor until its dry substance content is about 67 to 70% to precipitate a further crop of solids and obtain a liquor containing the recoverable glutamic acid with little contamination by humic substances.

2,535,118
TELEPHONE DIAL TESTING BY MEANS OF AN OSCILLOSCOPE PATTERN
William H. Blashfield, Galion, Ohio, assignor to The North Electric Manufacturing Company, Galion, Ohio, a corporation of Ohio
Application February 14, 1947, Serial No. 728,464
5 Claims. (Cl. 179—175.2)



1. In apparatus for testing the dialing contacts of an automatic telephone dial which are intended to have a predetermined pulsing rate of a certain number of make-break operations per second and are also intended to have a predetermined ratio of make interval to break interval in each make-break operation, the combination of a cathode ray tube comprising a screen rendered luminous by an electron beam, two pairs of deflecting plates located on axes normal to each other for determining the pattern produced by the electron beam, and a control electrode for interrupting or diminishing the beam, sweep control means for energizing said pairs of plates by the application thereto of sine waves of potential about ninety degrees in time phase apart for producing a substantially circular pattern on said screen, spot control means comprising a source of blocking potential for connection with said control electrode, a pair of connector terminals for connection with the telephone dial, and means interconnecting said source of potential with said connector terminals and dial contacts whereby when the dial contacts are closed a negative blocking potential is applied to said control electrode to substantially block said electron beam and create a gap in said circular pattern, and frequency control means coacting with said sweep control means for controlling the frequency of said sweep sine waves to cause said electron beam to rotate the same number of revolutions per second as the intended pulsing rate per second of the dial contacts, whereby forward or backward rotation of said gap in said circular pattern indicates variations of dial speed from the intended pulsing rate, and whereby the length of said gap in the circular pattern indicates the make-break ratio of said dial contacts.

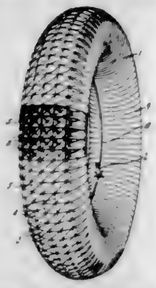
2,535,119
CALCULATOR
William E. Bush, Shell Beach, Calif.
Application December 23, 1949, Serial No. 134,694
5 Claims. (Cl. 235—64.7)

1. A calculator for determining the gamma to which a photographic negative must be developed with reference to contrast grade of paper of specified scale, as a function of high-light and shadow brightness of the subject being photographed, said calculator comprising a base, an upper sector mounted on said base for movement relative thereto; said base having delineations thereon defining a logarithmic scale of exposure meter readings co-ordinated with the specified scale of the contrast grade of paper, and said upper sector having delineations thereon defining a gamma scale correlated to said logarithmic scale with respect to high-light and shadow brightness of the subject for proper development of the negative.

2,535,120
INNER TUBE
John E. Cady and Francis A. Mulbarger, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application September 24, 1947, Serial No. 775,822
5 Claims. (Cl. 152—348)

5. A circular hollow inner tube for inflating a

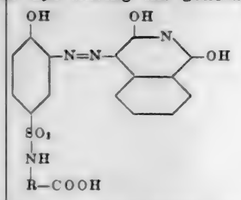
pneumatic tire casing, a portion of the wall of the tube having a series of intersecting waves forming a gridwork of isolated depressions covering said portion of said tube wall which flatten out upon inflation of the tube, ridges formed



along the crests of said waves for venting air, additional ridges formed in the walls of said depressions for venting air from the depressions upon inflation of the inner tube, and means formed in the tube wall for conducting the vented air to the exterior of the tire casing.

2,535,121
MONAZO DYE
Boyce Galloway Carson, Mission, Kans., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 12, 1949, Serial No. 87,139
4 Claims. (Cl. 260—155)

1. As a new composition of matter the chromable monazo dye having the general formula:



in which R is an organic radical of the group consisting of phenylene and chlorophenylene and in which the —COOH group is located ortho to the above shown

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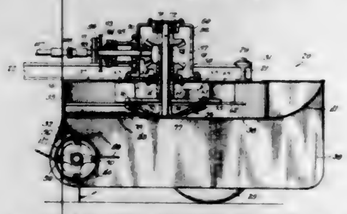
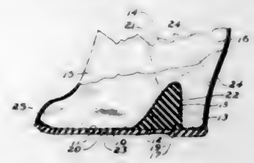
2,535,122
CROP COMMINUTING MACHINE
James Russell Day, Ottumwa, Iowa, assignor to Deere Manufacturing Co., a corporation of Iowa
Application November 30, 1946, Serial No. 713,264
9 Claims. (Cl. 55—118)



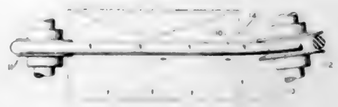
1. A crop treating machine comprising a mobile frame, a housing carried thereon in elevated position above the ground and having a feed opening in the bottom thereof, a pair of upper and lower rotors mounted in said housing by means providing for rotation about generally vertical axes, cooperative cutting elements on said rotors, respectively, means disposed beneath said housing for feeding crops upwardly through said feed opening, and feed members on said lower rotor for urging the crops upwardly from said feed opening to said cooperative cutting elements.

2,535,123
OVERSHOE WITH SHANK FILLER PIECE THEREIN
Kenneth C. Demick, Cambridge, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application November 23, 1946, Serial No. 712,033
2 Claims. (Cl. 36—7.3)



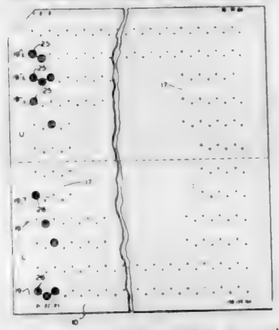
1. A unitary overshoe comprising a generally flat outsole extending from the toe end to the heel end of the overshoe, a generally wedge-shaped shank filler member having a forwardly sloping upper face and a generally vertical rear face and having its bottom face secured to the upper face of said outsole in the shank portion thereof, an inner sole secured throughout the major central portion of its extent to the upper face of the assembled outsole and shank filler member and to the vertical rear face of said member, and a foot-enclosing upper having its lower margin inturned under and secured along the extent thereof to the margin of said inner sole throughout its extent.

2,535,124
METHOD OF PRODUCING STABILIZED DRIVE BELTS
Laurence Edland, Glen Ridge, N. J., assignor to Rodic Rubber Corporation, New Brunswick, N. J., a corporation of Delaware
Application July 11, 1947, Serial No. 760,241
8 Claims. (Cl. 18—53)



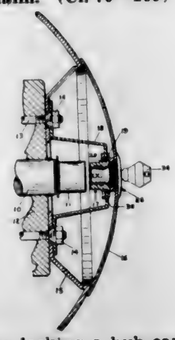
1. The process of producing an endless rubber ring free from contortive action induced by a rolling motion of the ring body about its own longitudinal axis under working conditions, which consists in first curing the ring to provide in the structure thereof a condition of initial stability, rotating the structure of the ring about the longitudinal axis of said body through substantially 180° and then subjecting the ring, while held in said rotated condition, to a second curing to provide in the structure thereof a condition of normal stability.

2,535,125
PERFORATED RECORD CARD
John T. Ferry, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 9, 1945, Serial No. 627,610
10 Claims. (Cl. 235—61.12)



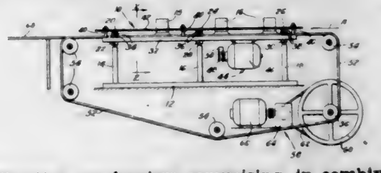
1. A card for controlling the operation of a business machine adapted to be governed by cards of either the round or slotted hole type, said card presenting horizontal rows of hole index positions, the positions in each row being disposed sequentially at opposite sides of an imaginary line constituting the horizontal axis of a row of slot positions in a registering card of the slotted type, and said hole positions falling within the slot areas of said slot positions.

2,535,126
HUB CAP LOCKING DEVICE
Luther W. Flowers and Hice J. Green, Wichita, Kans.
Application January 7, 1948, Serial No. 956
1 Claim. (Cl. 70—169)



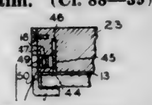
Mechanism for locking a hub cap on a wheel, comprising: an outwardly projecting spider anchored concentrically on the wheel hub and having a concentric perforation therein; a substantially cylindrical sleeve having an externally threaded surface, having an enlarged right angled flange at one end, and having its bore bevelled outwardly at that end nearest said flange, the main body portion of said sleeve being adapted to fit tightly within the concentric perforation in said spider; a nut on said sleeve cooperating with said flange to rigidly secure the sleeve to said spider; an annular groove cut into the inner wall of said sleeve; a key controlled substantially cylindrical lock assembly having an enlarged threaded shoulder near one end and an integral right angled flange projecting outwardly adjacent the outermost end of said threaded shoulder; a concentric perforation in the hub cap of a size to snugly receive the enlarged threaded shoulder on the lock assembly; a nut for said threaded shoulder cooperating with the adjacent flange to rigidly secure the lock assembly concentrically to the hub cap with the flange abutting the exterior surface thereof; outwardly spring pressed key retractable dogs normally projecting outwardly beyond the surface of the cylindrical portion of said lock assembly, said cylindrical portion being adapted to be received complementally in the bore of said sleeve with the threaded shoulder of the lock assembly abutting the outer surface of the flange on the sleeve to limit penetration of the lock assembly, said dogs adapted to be forcibly retracted by contact with the bevelled portion of the sleeve bore as the lock assembly is manually pushed into said sleeve, and to seat in the annular internal groove in said sleeve, and thereby prevent withdrawal of the lock assembly until such time as the dogs are key retracted, whereby when the lock assembly is locked in said sleeve removal of the hub cap from the wheel is positively prevented.

2,535,127
VIBRATORY CONVEYER FOR PACKING
John Frei, Jr., Chicago, Ill.
Application May 2, 1947, Serial No. 745,665
1 Claim. (Cl. 259—1)



Vibrating mechanism comprising, in combination, a longitudinally extending plate adapted to be vibrated, a retainer rail along each side of the plate, supporting posts positioned adjacent the ends and the middle of the plate and having threaded extensions of reduced diameter passing through apertures in the margins of the plate, adjustable nuts carried on said extensions to control vertical movement of the plate on the extensions of the supporting posts, said nuts being adjusted to permit greater vibratory movement of said plate at its one end than at its other end, vibrating means for vibrating the plate, and an endless conveyor passing over the plate between the retainer rails and adapted to carry objects to be vibrated along said plate from the end having the greater vibratory movement to the end having the lesser vibratory movement.

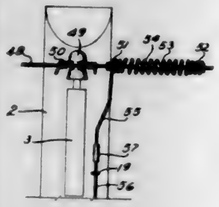
2,535,128
MECHANICAL STAGE FOR MICROSCOPES
Bernhardt George Gallasch, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 24, 1946, Serial No. 718,233
1 Claim. (Cl. 88—39)



A mechanical stage positioned on the upper surface of a microscope stage comprising an overhanging arm having a free end adapted to be moved along said surface, a rotatable bearing

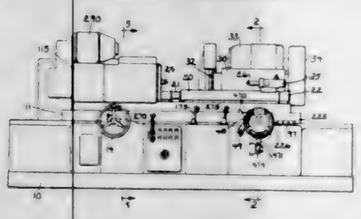
member projecting from said arm and contacting said surface to space the arm from said surface, a journal pin on which said bearing member rotates, said pin having a cylindrical eccentric surface integral therewith by which said pin is mounted within a bore in the arm, and locking means for holding said eccentric surface and pin in a stationary position longitudinally and rotationally.

2,535,129
LIGHTNING ARRESTER
Merle A. Gill, Rantoul, Kans., assignor to Harold D. Manuel, Kansas City, Mo.
Application January 16, 1950, Serial No. 138,785
2 Claims. (Cl. 175—30)



1. A lightning arrester for wire lines supported above ground by poles or the like comprising, spaced pieces of insulating material on said line adjacent said pole, a wire having one end wound tightly around the insulator spaced farthest from said pole, said wire being loosely coiled around said line between said insulators and spaced from said line and the turns of the coils being spaced from each other, said wire being tightly wound around said insulator adjacent to said pole, and means for attaching one free end of said wire to a ground wire.

2,535,130
CAMSHAFT GRINDING MACHINE
Clarence J. Green and Oiva E. Hill, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application October 19, 1948, Serial No. 55,382
27 Claims. (Cl. 51—72)

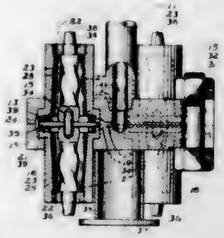


1. In a cam grinding machine having a longitudinally movable table, a piston and cylinder to move said table, a reversing valve therefor, a solenoid-actuated valve to control the admission to said cylinder, a second solenoid-actuated valve to control the exhaust of fluid from said cylinder, a rotatable grinding wheel, a transversely movable slide therefor, means including a piston and cylinder to feed said slide, a third solenoid-actuated control valve therefor, a pivotally mounted rock bar on said table, a rotatable work support including a master cam spindle having a plurality of master cams thereon mounted on said rock bar, a follower roller associated therewith to oscillate said rock bar, means including a piston and cylinder to rock said bar to and from an operative position, an electric counter actuated by oscillation of the rock bar, means including an electric motor to rotate the master cam spindle and the cam shaft to be ground, and a table indexing control means including a plurality of table index dogs, a movable stop plunger associated therewith, yieldable means normally to maintain said plunger in the path of said dogs, a piston and cylinder automatically to withdraw said plunger to an inoperative position after each cam has been ground, and a fourth solenoid valve actuated by said counter to control the admission of fluid to said cylinder so as to withdraw said plunger and thereby start an indexing movement of the table.

2,535,131
PROCESS FOR BROMINATING p-TOLUYL BENZOIC ACID
Ivan Gubelmann, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 17, 1949, Serial No. 128,020
2 Claims. (Cl. 260—517)

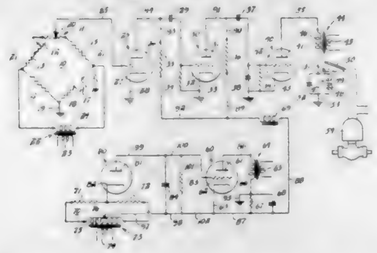
1. A process for preparing 3'-bromo-4'-methyl-2-benzoyl benzoic acid which comprises dissolving p-toluyl benzoic acid as an alkali metal salt in a non-acid aqueous solution in which a mixture of an alkali metal bromide and an alkali metal bromate is dissolved in an amount sufficient to effect monobromination of the p-toluyl benzoic acid with an excess of from 20% to 50%, slowly adding this solution to a dilute mineral acid under good agitation and at such a rate and temperature that bromination is essentially completed at the time of contact of the solution with the acid.

2,535,132
INJECTION MOLD
Otto E. Hermanns, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 9, 1947, Serial No. 767,790
6 Claims. (Cl. 18—34)



6. A mold comprising a plurality of mold members, each said mold member having an open-faced molding chamber, a pair of clamping members for clamping pairs of said mold members together with their open faces in opposing relationship and with said pairs of mold members disposed radially equi-distant from a common axis passing through said clamping members, the parting line of said mold lying between said opposed chambers and between said clamping members, separator means for separating each said chamber from its opposed chamber to permit the formation of an individual molded article in each said chamber, a port in one of said clamping members disposed at said common axis, and a gate extending along the parting line of said mold from said port to each said pair of opposed molding chambers at their junction for supplying molding to both said opposed chambers simultaneously.

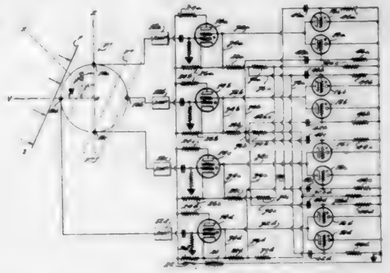
2,535,133
LIMIT CONTROL APPARATUS
Robert G. Hoch, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 28, 1947, Serial No. 771,116
8 Claims. (Cl. 177—311)



4. Control apparatus, comprising, electrical means to be controlled, an electron discharge device having a control electrode, a source of power connected in circuit with said device, an impedance connected at one end to said control electrode so that normally said control electrode will assume a potential at which said discharge device will be conductive, means connecting said discharge device to maintain said electrical means operative while said device is conductive, condition responsive means having electrical circuit means connected thereto, said responsive means having output terminals with a voltage thereon only when the condition responded to lies outside of predetermined limits, and means connecting said terminals to said impedance to apply a voltage thereto with the end thereof connected to said control electrode being negative when said terminals have a voltage thereon, said discharge device being rendered nonconductive when said control electrode is negative to render inoperative said electrical means.

2,535,134
SOUND LOCATING EQUIPMENT
Robert R. Howard, Oak Park, Ill., and Robert N. Himmel, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 27, 1948, Serial No. 40,914
10 Claims. (Cl. 177—352)

1. In an apparatus for indicating the order of operation of a plurality of signal voltage sources, in combination, a signal channel for each of said sources including (1) a trigger device responsive to signal voltages from its associated source and (2) a pair of indicating elements each responsive only to simultaneously applied energizing voltage and trigger voltage, a source of energizing voltage, means coupled between said energizing source and said trigger devices to supply energizing voltage to the indicating elements in any given channel in response to triggering of the trigger device in that channel by a signal voltage, and means coupling the trigger device in each channel to one indicator in each of two other of said channels to furnish a triggering voltage to said other channel indicators so that any given



indicator will respond only after the trigger device in its own channel and the trigger device in another of said channels have both been triggered in predetermined sequence.

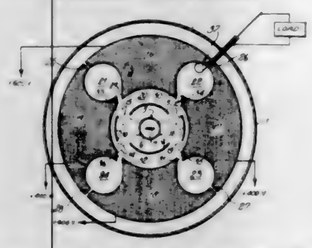
2,535,135
PARTING STRIP ASSEMBLY FOR HIGHWAYS AND THE LIKE
James H. Jacobson, Chicago, Ill.
Application April 17, 1948, Serial No. 21,616
6 Claims. (Cl. 94—17)

1. In combination, a parting strip having its body offset to provide upper and lower oblique walls in connection with a vertical wall therebetween, there being formed two slots opposite each other, one each in the upper and lower oblique walls close to the strip body and other slots extending lengthwise of the strip, one through the offset vertical wall adjacent the upper oblique wall and the other through the strip body adjacent the lower oblique wall, a spring clip plate contoured in general conformity with the offset portion of the strip body and entered through the two slots last named to lie in part adjacent the under face of the upper oblique wall of the strip, in part upon the opposite side of the strip adjacent the offset vertical wall, and in part adjacent the under face of the lower oblique wall of the strip, the clip plate being formed therethrough with two spaced slots each adjacent the strip body, a stake pin entered through the two first named slots of the oblique walls and through the two slots of the clip plate to lie adjacent the strip body while disposed transversely of its length, and means integral with the clip engaging the stake pin with pressure at spaced points, one adjacent each slot in the parting strip through which the stake pin is passed.

2,535,136
COLLAPSIBLE HAT HOLDER
Morris Jacobson, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application November 19, 1945, Serial No. 629,654
1 Claim. (Cl. 211—32)

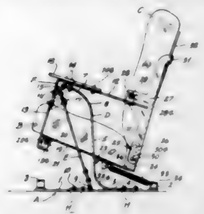
In a collapsible hat holder adapted to be suspended in a vertical plane, a plurality of similar back sections in the form of flat blanks of cardboard of greater length than width arranged end-to-end, each back section being formed adjacent each end thereof with a pair of apertures, each back section being pivotally connected to its adjacent back section for movement through an arc of approximately 360° by means of rings disposed in said apertures, a plurality of similar hat receiving members in the form of flat blanks of cardboard, one end of each hat receiving member being formed with a pair of apertures to receive a pair of said rings whereby said member may be suspended for pivotal movement along a single axis toward and away from the face of its respective back section, said hat receiving members and back sections being substantially coextensive in length, the width of said hat receiving members being greater than the width of said back sections, each hat receiving member being formed with an opening to receive the bowl of a hat, and a hanger section pivotally connected to one of said back sections.

2,535,137
MICROWAVE DYNATRON OSCILLATOR
Ernest R. Jervis, South Orange, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application September 28, 1949, Serial No. 118,219
8 Claims. (Cl. 315—39)



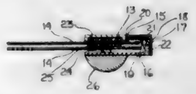
1. An electron tube of the dynatron type comprising an evacuated enclosing envelope, a central primary electron emitting cathode, means defining a plurality of cavity resonators symmetrically surrounding said cathode each of said resonators being formed of a pair of spaced adjacent grooved blocks with one set of adjacent edges of each pair of blocks forming a respective passageway extending parallel to the length of said cathode, one wall of each passageway being an emitter of secondary electrons, and electrostatic electron deflector means located between the cathode and said blocks to form the primary electrons from the cathode into a series of discrete beams having curved trajectories which terminate at said one wall of a respective passageway.

2,535,138
RESILIENTLY SUPPORTED RECLINING CHAIR
Arthur E. Johnson, St. Louis, Mo., assignor of forty one-hundredths to Dorothy K. S. Johnson, St. Louis, Mo.
Application March 12, 1945, Serial No. 582,217
4 Claims. (Cl. 155—54)



1. A reclining chair comprising upwardly and forwardly inclined side members pivotally supported at their lower ends for forward and backward swinging movement, upstanding spring plate members located rearwardly of said side members and having fixed lower ends and free upper ends located adjacent to the upper ends of said side members, supporting members secured to the upper ends of said side members and said spring plate members, said supporting members having upper portions that extend rearwardly of the upper end portions of said spring plate members and depending front end portions located in front of said side members, a seat movably supported from the depending front end portions of said supporting members, a back movably supported from the rear end portions of the rearwardly extending top portions of said supporting member, and connections between said seat and back providing for joint forward and backward movement thereof.

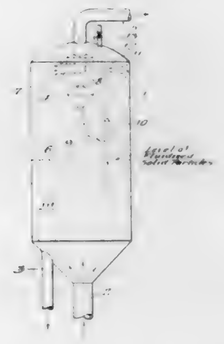
2,535,139
SHIRT CUFF FASTENING DEVICE
Joseph S. Kanarek, Chicago, Ill.
Application October 28, 1948, Serial No. 57,057
1 Claim. (Cl. 24—102)



A fastening device for shirt cuffs including a pair of relatively flat parallelly extending clamping arms having corresponding end portions at one end thereof hingedly connected together and between which confronting edge portions of a shirt cuff are adapted to be clamped, means providing said hinged connection, one of said clamping arms having in its surface confronting the surface of the other arm a recess adapted to receive and cover a button preattached to the shirt cuff, a shank carried by the other of said arms and extending laterally from the surface of said arm confronting the surface of said one arm and adapted to be projected through a preformed

button hole formed in the shirt cuff for said button and having an enlarged head thereon to provide a connection between said cuff and said clamping arms when said button is not projected through said button hole, and spring means having opposite end portions connected to the clamping arms for yieldably holding such arms in clamping position upon the shirt with the button disposed in the recess and the shank projected through the button hole.

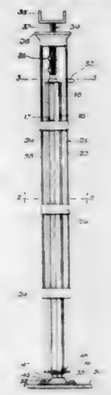
2,535,140
CENTRIFUGAL SEPARATOR
Louis S. Kassel, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 13, 1946, Serial No. 696,790
2 Claims. (Cl. 183—83)



1. Apparatus of the type described comprising in combination a contact chamber, said chamber having inlet and outlet means and being arranged for contacting gases and finely divided solid particles, a centrifugal type separator at the gas outlet of said contact chamber, a solid particle return line passing from said separator to the interior of said contact chamber, a standpipe communicating at an intermediate point in the height thereof with the lower end of said solid particle return line, jet pumping means mounted across the upper end of said standpipe, a conduit connecting to said pumping means with the latter adapted to receive and pass a flow stream therethrough and operating to withdraw gas flowing upwardly through said solid particle return line while permitting gravity descent of solid particles through said return line and said standpipe to the interior from said contact chamber.

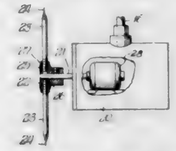
2,535,141
ADJUSTABLE SHORE
William H. Kenney and Forrest C. Newburg, Teaneck, N. J.
Application November 20, 1946, Serial No. 711,088
1 Claim. (Cl. 248—354)

In an adjustable shore, in combination, a substantially X-shaped central support member, a swivel unit thereunder, a top member comprising two spaced angle irons joined at suitable intervals by horizontal straps, said member substantially conforming to and slidably mounted upon the support member and a jacking device comprising a plate, an internally threaded bore therein, a worm receivable within the bore and a



support device secured to the said worm attached to the said top member.

2,535,142
LIQUID LEVEL CONTACTOR
Sverre Kongelbeck, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application October 7, 1947, Serial No. 778,344
12 Claims. (Cl. 200—152)



1. A contact member for a liquid level meter of the type described comprising a rotatable shaft mounted for vertical movement with respect to the liquid surface to be measured, a revolvable member carried at the end of said shaft, a contact mounted on said revolvable member, means for continuously revolving said shaft and said member, said contact alternately engaging and disengaging the liquid surface upon rotation of said revolvable member, and means operative to raise and lower said shaft in response to variations of said liquid surface to maintain a constant distance between said liquid surface and said shaft.

2,535,143
STRING FOR MUSICAL INSTRUMENTS
Jan Kosmis, Jr., Amsterdam, Netherlands
Application March 10, 1948, Serial No. 14,055
In the Netherlands March 13, 1947
1 Claim. (Cl. 84—297)

A string for a musical instrument comprising, a core generally made of steel wire, and a covering over said core, said covering being formed of pliable metal spirally wound, and an attaching formation at one end of said string, said attach-

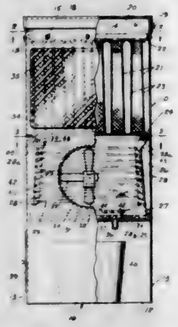
ing formation including a portion of said core extended away from the normal continuation thereof in the form of a bend, said spiral covering continuing over said bend of said core and covering said core around said bend, and a collapsible element having an opening in one face thereof wherein said string is passed through said opening with said attaching formation received within the body of said element, whereby on collapse of said element by compression said attaching formation will be enclosed within the body of said element.

2,535,144

AIR DEHUMIDIFYING APPARATUS WITH HYGROSCOPIC MATERIAL SPREADING MEANS

Frank G. Kovacs, Caldwell, and Frederic Arnault Seidler, South Orange, N. J.

Application January 22, 1949, Serial No. 72,128
4 Claims. (Cl. 183—40)



1. In a dehumidifying apparatus of the class described having a housing, porous containers for hygroscopic material within said housing, and a moisture absorbing chamber located beneath said porous containers, a frame within said chamber and located beneath said porous containers and having vertical front and back portions and an up and down line of horizontal rods mounted between each of the side portions of said front and back portions, and a strip of porous adsorbent material mounted in zig-zag fashion on said rods from the top rods back and forth extending downwards forming superimposed layers in order that said layers are formed from a continuous strip of material, means for circulating a current of air which is to be dehumidified through said housing and around said superimposed layers and around said porous containers, said up and down lines of rods being located along downwardly and slightly outwardly inclined lines in order that said superimposed layers are progressively wider from the top to the bottom, and the top layer of said porous material being located beneath said porous containers.

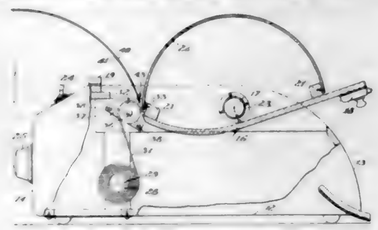
2,535,145

CONTACT PRINTING MACHINE

Samuel W. Langdon, Rochester, N. Y., assignor to Marks & Fuller, Inc., Rochester, N. Y., a corporation of New York

Application April 29, 1948, Serial No. 23,922
3 Claims. (Cl. 95—73)

1. A photographic printer comprising, in combination, a supporting structure forming a substantially complete enclosure, a cover pivoted to the supporting structure and forming with the supporting structure a light tight enclosure when the cover is closed, a curved light transmitting work receiver secured to said member approximately concentric with said pivots and forming with the cover a movable assembly, a light source within the work receiver, a flexible sheet of material having one end attached to the movable assembly, a roll having spring winding means normally retaining said flexible material wound thereon when the cover is open, and means exerting a wedging action when the cover is shifted to a closed position and the subject and the sensitized material are applied to said work receiver, said wedge action being applied to said flexible material so as to smooth out the subject and the sensitized material and apply them in intimate relation with each other and the work receiver.

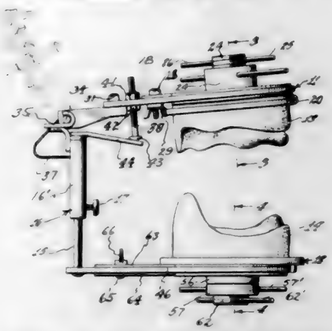


2,535,146

DENTAL ARTICULATOR

Benjamin Lyons, Brooklyn, N. Y.

Application January 11, 1949, Serial No. 70,178
8 Claims. (Cl. 32—32)



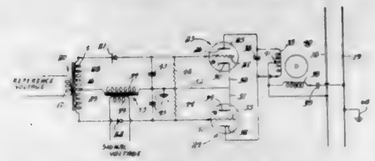
1. A dental articulator comprising upper and lower jaw model supports, a frame connecting said supports together, means for hingedly connecting the upper support to said frame, one of said supports comprising a main plate with a large opening therein, clamping plates disposed on the opposite sides of said opening and adjustably movable thereover, a threaded shank extending from one of said clamping plates through the main plate opening and through the other clamping plate, and a clamping nut connected to said shank to releasably secure the clamping plates to the main plate in any of their horizontal adjusted positions thereover, a supporting plate, a jaw model having a retainer plate releasably secured to said supporting plate, a rod adjustable through the clamping plates and the shank of the one clamping plate, said rod being of polygonal section, separable lock elements having rounded top and bottom external surfaces and adapted to grip the rod, socket means engageable with said surfaces from above and below and a clamping element operable within said shank for bringing said socket means into engagement with the lock elements.

2,535,147

ELECTRONIC CONTROL CIRCUITS

David L. Markusen, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application May 29, 1948, Serial No. 30,130
17 Claims. (Cl. 315—201)



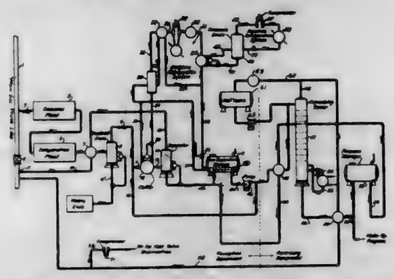
1. An electronic amplifier having in combination: a first and a second circuit each having an electron discharge device including an anode, control element and cathode, a source of alternating voltage, and a rectifier; means in each circuit electrically connecting said alternating voltage and rectifier in series with the control element and cathode of that circuit in such a manner that the potentials on said control elements are out of phase; a source of alternating voltage common to both of said circuits and connected into said circuits in such a manner as to add to the potential across the voltage source in one of said circuits and subtract from the potential across the voltage source in the other of said circuits, one of the two alternating voltages in each circuit being of constant magnitude and phase and the other of variable magnitude and phase; a resistance and capacitance network in each circuit electrically connected in parallel with the voltage sources and rectifier; means electrically connecting said cathodes; and means for applying a source of alternating voltage to said anodes in such a manner that the potentials on said anodes will be in phase.

2,535,148

METHOD OF STORING NATURAL GAS

Henry Arthur Martin, Kansas City, Kans., Alexander Russell Young, Kansas City, Mo., and Henry M. Nelly, Jr., Houston, Tex., assignors to J. F. Pritchard & Co., Kansas City, Mo., a corporation of Missouri

Application April 18, 1946, Serial No. 663,232
5 Claims. (Cl. 48—190)



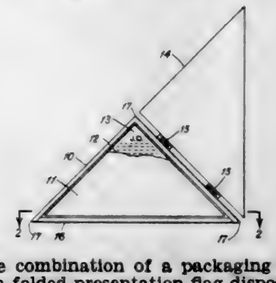
1. The method of storing natural gas in liquid form at a temperature substantially higher than the normal liquefaction temperature of said natural gas including, absorbing the natural gas in a normally gaseous hydrocarbon maintained at low temperature and in liquid state during said absorption and desorption of the natural gas, storing the liquid absorbent containing the natural gas at a temperature sufficiently low to retain said hydrocarbon in liquid state and the natural gas in absorption, withdrawing the liquid absorbent containing the natural gas from storage when natural gas is needed, and vaporizing the natural gas from the absorbent while maintaining the absorbent in liquid state to effect separation of the natural gas from the absorbent.

2,535,149

PRESENTATION FLAG PACKAGE

Edward T. McBride, Hawthorne, N. J.

Application May 28, 1947, Serial No. 750,939
2 Claims. (Cl. 206—47)



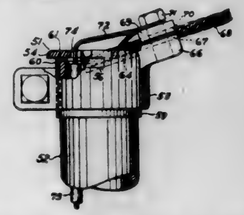
1. The combination of a packaging container having a folded presentation flag disposed therein in the triangular form in which such flags are presented to the recipients said container having a transparent lid and being of a size and isosceles form suitable to receive said flag, said folded flag containing entirely between its folds a substantially rigid triangular stiffening member substantially the size of said triangularly folded flag.

2,535,150

OUTLET CONNECTOR HEAD

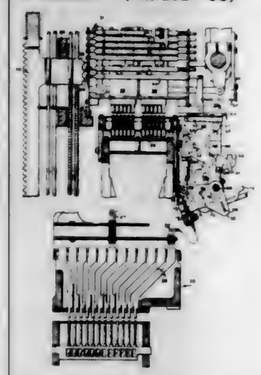
George A. Mead, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application June 21, 1946, Serial No. 678,216
11 Claims. (Cl. 174—75)



3. An outlet head comprising a body, means to secure the body to a support, the body provided with an open top cavity to receive molten solder metal, the cavity formed with walls free from openings and the bottom wall sloping upward whereby the cavity is deeper at one end than at the other end, holding means associated with the body and projecting laterally therefrom adjacent the shallow end of the cavity to secure a conductor to the body with its end projecting into the cavity.

2,535,151
SELECTIVE NAUGHT BLOCK MECHANISM FOR CARD OPERATED MACHINES
Harold P. Mixer, Rockville Centre, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application October 14, 1948, Serial No. 54,388
2 Claims. (Cl. 101—93)

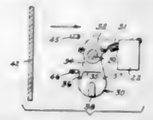


1. In a machine of the class described, the combination of a sensing mechanism, type racks advanced differentially under control of said sensing mechanism, normally disabled stops to prevent advance of said type racks, means including a first plunger to enable one or more of said stops, a sliding member actuated by said plunger, a push link operated by said member and a plate cooperating with one or more of said stops and actuated by said push link, a bar to actuate said first plunger, a series of interponents each manually settable active or inactive to operate said bar, and a series of second plungers each actuated under control of said sensing mechanism to operate one of said interponents.

2,535,152
CAMERA CARRYING CASE
Erdick H. Nelson, Walworth, Wis., assignor to Furnel, Incorporate, Chicago, Ill., a corporation of Illinois
Application June 7, 1950, Serial No. 166,692
11 Claims. (Cl. 95—86)

1. A carrying case for a camera comprising a base member having fastening means connectable with said camera, closure members hinged to said base for pivotal movement between a first position wherein said closure members are positioned uprightly on said base member and together with said base member form a camera enclosure and a second position wherein said closure members generally depend from said base member and together with one another form a handle with which to support a camera connected to said base member, latching means to lock said closure members in said first position, said latching means including a lens enclosing door pivotally mounted on said base member to swing through a plane generally normal to the plane of movement of said closure members from a first position wherein said door cooperates with said closure members to latch same in closed position and a second position wherein said door is swung clear of the camera.

2,535,153
SELF-ALIGNING LATCHING DEVICE
Ralph K. Nottingham, Portland, Oreg., assignor to Phillips Tutch-Latch Company, New York, N. Y., a corporation of Delaware
Application July 7, 1947, Serial No. 759,326
7 Claims. (Cl. 292—341.17)

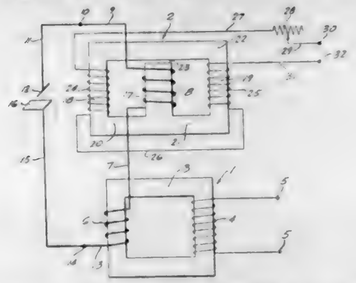


1. In a latching device for a pair of relatively movable members, a latch adapted to be mounted on one of said members, said latch including a latch prong, a keeper mounting adapted to be mounted on the other of said movable members, a keeper pivotally mounted on said keeper mounting upon an axis normal to the direction of relative movement of said member, a spring tensioned between said keeper and keeper mounting and biasing said keeper to a neutral position transversely of the direction of relative movement of said members, said keeper being pivotally movable in either direction against the force of said spring in a plane parallel to said direction of relative movement and comprising a shoulder abutment facing away from the pivoted end thereof and a projecting lip at each side of said abutment, said latch prong being engageable with said keeper upon relative closing movement of said members to swing said keeper in the direction of closing movement until said prong passes beyond the lip at the engaged side whereupon said spring may return said keeper toward said neutral position, said keeper comprising means engageable with said prong to limit returning movement of said keeper under the influence of said spring whereby upon subsequent opening movement of said members to a slight extent said prong engages behind said shoulder abutment to restrain said members in latched position, said prong upon subsequent relative closing movement of said members beyond said latched position disengaging said shoulder abutment and permitting said spring to return said keeper to neutral position whereupon said members may be separated.

2,535,154
VARIABLE OUTPUT TRANSFORMER
Sol Oestreicher, Milwaukee, Wis., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application July 8, 1947, Serial No. 759,553
4 Claims. (Cl. 323—60)

1. In an apparatus adapted to furnish a regulated supply of arc welding alternating current a transformer having a primary winding adapted to be connected to a source of alternating current and an output circuit including a secondary winding adapted to furnish alternating current

suitable for welding; means adapted to regulate the reactance of the output circuit of said transformer, said means including a three legged reactor frame having side legs and a central leg interrupted by an air gap, a reactance winding



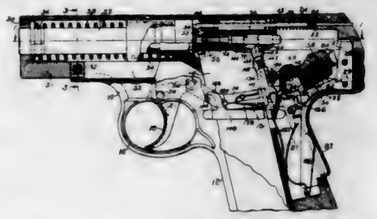
connected in said output circuit surrounding said central leg, direct current magnetizing control windings surrounding said side legs, and a controllable source of direct current for exciting said windings.

2,535,155
NASAL FILTER
Victor H. Pandorf, Cincinnati, Ohio
Application November 28, 1947, Serial No. 788,761
6 Claims. (Cl. 128—148)

6. A nasal filter comprising a frame member composed of a pair of spaced substantially oval rings, a number of spacing members joined to said rings and holding them in substantially parallel relation, one of said rings being slightly smaller than the other whereby said frame member is shaped to substantially fit a human nostril, a filter holding member hingedly secured to the lower of said rings and comprising a pair of substantially oval rings secured together in spaced, substantially parallel relation with a major portion of their peripheries free from securing means whereby said filter holding member is susceptible to ready insertion or removal of a filter pad, or the like, said last mentioned pair of rings being slightly smaller respectively than the said first mentioned pair of rings, whereby in one position said filter holding member is substantially contained within said frame member.

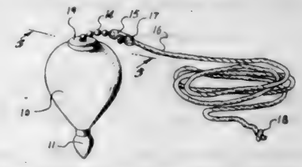
2,535,156
SEMIAUTOMATIC FIREARM WITH TRIGGER OPERATED COCKING MECHANISM
Michael W. Pastore, Hartford, and John C. Rothwell, Bolton, Conn., assignors to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application April 8, 1948, Serial No. 19,696
34 Claims. (Cl. 89—196)

1. In a semiautomatic firearm, the combination of a frame, a barrel, a reaction spring, a reciprocable breech bolt normally connected with the reaction spring to enable the said spring to resist rearward movement of the bolt upon firing and to thereafter move it forward, the said bolt being disconnectible from the spring for independent reciprocable movement, a separate spring serving to resist independent rearward movement of the bolt and to thereafter move it forward, devices for extracting and ejecting a cartridge shell during rearward bolt movement, a magazine for supplying a cartridge to a position for insertion into the barrel during forward bolt movement, a firing pin, a spring-biased mechanism for actuating the pin to effect firing, which



mechanism is movable to cocked position by the bolt upon rearward movement thereof, a sear biased to retain the firing mechanism in cocked position, a trigger, a mechanism operable by the trigger for disconnecting the bolt from the reaction spring and for then moving the bolt rearward independently of the said reaction spring so as to move the firing mechanism to cocked position, and a trigger operable connection for moving the sear to release the firing mechanism.

2,535,157
SPINNING TOP WITH ATTACHED FLEXIBLE BALL CHAIN MEMBER
Joseph T. Radovan, Long Island City, N. Y.
Application August 13, 1948, Serial No. 44,050
2 Claims. (Cl. 46—70)

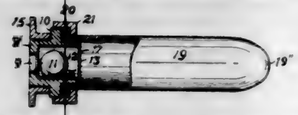


1. A spinning top comprising a top body, said top body having a pointed end upon which the body is rotated, said top body having an opening in the upper end, a raised portion about the opening, a flexible ball chain, a retaining member having a depending flange adapted to surround the raised portion about the opening, said retaining element having a central opening for rotatably receiving and retaining the ball chain, said retaining member having depending projections extending into the top body for fixing the same thereto, a fastener element on the outer end of the ball chain, and a cord detachably connected to the fastener element.

2,535,158
CALF WEANER
John R. Rhinehart, Fort Wayne, Ind.
Application November 19, 1945, Serial No. 629,568
1 Claim. (Cl. 119—71)

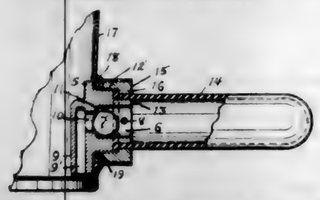
A fixture for attaching a flexible nipple to a feed pail, consisting of an anchor ring attachable to said pail, a chambered coupling threaded in the outer end of said ring provided with a threaded shoulder that abuts said ring and having in its chamber an outflow valve, a thimble

disposed on the distal end of said coupling provided with outlet passageways, and a flanged



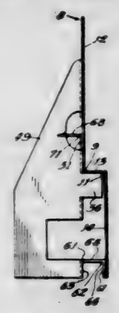
ring threaded on said shoulder for securing a flexible nipple about said thimble on the coupling.

2,535,159
NIPPLE ATTACHMENT FOR FEED PAILS
John R. Rhinehart, Fort Wayne, Ind.
Application September 16, 1948, Serial No. 49,575
2 Claims. (Cl. 119—71)



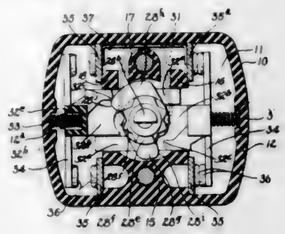
1. An attachment for securing a nipple to a feed pail, said attachment consisting of a chambered body having an outflow check-valve therein, said body being removably positioned within a feed pail and having a threaded shoulder extending outwardly through an apertured embossment therein, and provided on its inner end with an enlargement having a portal between the bottom of said pail and the outflow opening in said body, and a lock ring engaging said shoulder for securing a nipple on said body and having clamping engagement against said embossment.

2,535,160
COLLAPSIBLE STEP DISPLAY
Earl M. Roach, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application April 6, 1946, Serial No. 660,171
2 Claims. (Cl. 248—195)



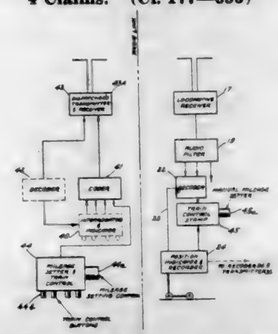
1. A collapsible step display comprising a sheet of material scored to form hingedly connected panel, step and riser sections, a pair of easel wings hingedly connected in spaced parallel relation to said panel section, a tongue formed on each easel wing for supporting engagement under said step section, a hinge section pivotally connected to said easel wings and disposed in the plane of said panel section, a spacing section pivotally connected to said hinge section, said spacing section being equal to said step section in width, a bottom locking flap hinged to said spacing section and secured to said riser section, said spacing section being foldable downwardly against the front side of said hinge section and against the back side of said riser section, and a locking tongue formed with locking recesses for securing said easel wings in their extended positions, said locking tongue being pivotally movable from against the back side of the panel section to an easel wing engaging position at substantially right angles to said panel section.

2,535,161
ELECTRIC SWITCH
Clyde F. Robbins, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 8, 1946, Serial No. 660,334
20 Claims. (Cl. 200—16)



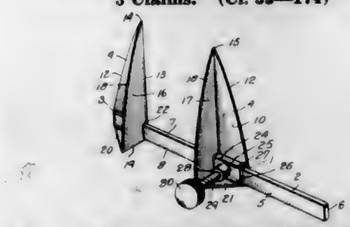
13. In a rotary electric switch, in combination, a one-piece molded insulating base having a recess opening to the lower end thereof, the upper end wall of said recess having a bearing opening formed therein centrally thereof, a shaft insertable into said recess and having a portion formed of insulating material adapted to bear within said opening, said shaft also having a star-wheel portion and a pair of cam portions formed integrally with said portion first mentioned, a substantially U-shaped spring interlocked with said base and said shaft for cooperation with said star-wheel portion on opposite sides of the latter, a pair of insulating slide members having portions underlying said cam portions and vertical shoulders to be respectively engaged with the latter, spring means for continuously biasing said vertical shoulders toward the respective cam portions, a pair of bridging contactors respectively attached to the slide members at the outer ends of the latter and adapted to have a predetermined degree of tilting movement relatively thereto, two pairs of stationary contacts seated in said recess inwardly of the respective contactors and into and out of engagement with which said contactors are respectively adapted to be moved upon predetermined degrees of rotary movement of said shaft in opposite directions, a flat plate of insulating material underlying the open end of said recess, a pair of bolts penetrating said plate and said base, said bolts having threaded engagement with headed nuts at the upper surface of said base, whereby said insulating plate and all of said switch parts are retained in assembled relationship to said base, a non-magnetic plate overlying a portion of the upper surface of said base and adapted to be clampingly engaged by the heads of said nuts, and a pair of permanent magnets underlying said last mentioned plate at opposite ends of the latter.

2,535,162
POSITION INDICATION AND CONTROL SYSTEM FOR MOVING OBJECTS OR VEHICLES
Lionel M. Rodgers, Springfield Township, Montgomery County, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 4, 1945, Serial No. 608,952
4 Claims. (Cl. 177—353)



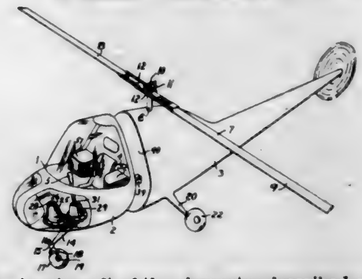
1. In a system for indicating, at a remote point the location of a moving object, a network adapted to establish communication between said object and said remote point, said network including transmitting apparatus carried by said object and so responsive to the progression of the object as to be conditioned to transmit a signal characteristic of the position of the object, means at said remote point effective to receive said signal and to utilize its positional characteristic to indicate the location of said object, control apparatus carried by said object and indicative of the position thereof, apparatus at said remote point effective to transmit a control signal, and means carried by said object and responsive to said control signal to provide a clearance or proceed indication at said object when the positional indication of said control apparatus coincides with the position of the object as transmitted to said remote point.

2,535,163
INSTRUMENT FOR DETERMINING SIZE AND LOCATION OF ANTERIOR TEETH
Joseph Earl Scott, Pratt, Kans.
Application August 18, 1948, Serial No. 44,826
3 Claims. (Cl. 33—174)



1. An instrument for determining width of the anterior teeth on bite plates while contained in a patient's mouth including, a substantially flat transverse bar adapted to rest within the sulcus and below the vermillion of the lower lip of the patient, gauge elements carried by said transverse bar, each including a relatively thin blade-like portion extending upwardly from the bar and having a planar surface extending across the corners of the patient's mouth, said blade portions of the respective gauge elements having straight parallel facing side edges terminating in points in plane with said planar surfaces at the ala of the patient's nose and having opposite side edges diverging downwardly and outwardly from said points to provide relatively wide base portions, said gauge elements also including right angular blade portions in plane with said straight edges of the first-named blade portions and having edges diverging outwardly from said points to provide relatively wide base portions and flat guide surfaces in plane with said points adapted for guiding a heated spatula for marking the bite plates, and means mounting the gauge elements on the transverse bar with one movable toward the other.

2,535,164
CONTROL MECHANISM FOR HELICOPTERS
Charles M. Seibel, Wichita, Kans.
Application May 31, 1947, Serial No. 751,589
11 Claims. (Cl. 244—17.11)



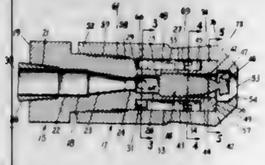
10. An aircraft of the character described comprising, a fuselage having forward and rear sections, a boom, means for rigidly supporting the rear fuselage section on said boom, links having one end pivotally secured to said boom and their other end to the forward fuselage section for pivotally mounting the forward fuselage section to said boom, means pivotally connecting the forward fuselage section to the rear fuselage section, and means for moving said forward section relative to the rear section.

2,535,165
ACCESSORY FOR FLOWN KITES
Charles H. Shoemaker, Glendale, Calif.
Application September 15, 1948, Serial No. 49,392
10 Claims. (Cl. 244—155)

2. A load carrying and releasing accessory for use with flown kites comprising a body member

having means for being mounted in free sliding engagement on a kite string, a pair of flexible and resilient wings each having one end thereof rigidly attached to said body member and normally disposed in planes substantially parallel to the kite string, means for releasably locking said wings in spread position and means operable upon contact with a stop on the kite string to release the wings with incident return of the wings to their normal position by reason of their resilience.

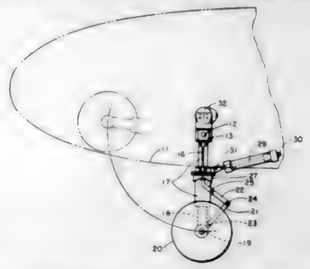
2,535,166
BURNER NOZZLE WITH FLAME CONTROL MEANS
Cecil W. Smith, Waterman, Ill.
Application September 29, 1947, Serial No. 776,662
3 Claims. (Cl. 299—120)



1. A nozzle for an oil burner comprising a body member formed with an axial bore having an internally threaded portion at its rear end for connection with a fuel supply pipe, and a horizontal transverse passage extended through said body member, with the outer peripheral surface of said body member being formed with a pair of oppositely arranged longitudinal grooves, and a pair of circumferentially extended grooves open at one of their ends to the outer ends of said transverse passage, and at their opposite ends open to the rear ends of said longitudinal grooves, with the front ends of said longitudinal grooves being connected with openings arranged tangential to said bore at a position adjacent to the front end of said body member, a plug member positioned within the forward end of said bore having its rear end spaced forwardly from said transverse passage, with the front end portion of said plug being of a reduced section opposite the inner ends of said tangential openings, a head portion on said plug member projected forwardly from the front end of said body member, and a cap member overlying said body member and plug having a fuel discharge opening opposite the front end of said plug member and covering said grooves so as to form fluid passages therewith.

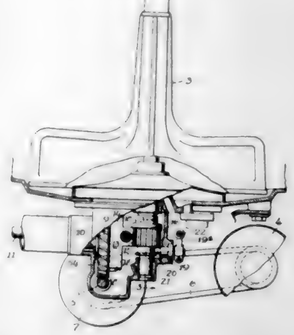
2,535,167
AIRCRAFT WHEEL CENTERING MECHANISM
Clovis W. Smith, Worthington, and John E. Warner, Columbus, Ohio, assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application June 11, 1948, Serial No. 32,346
9 Claims. (Cl. 244—50)

1. In a steerable and retractable aircraft landing gear, a yoke pivoted about a transverse axis to the aircraft, a shock strut having an upper section journalled in the yoke for turning about an axis that is substantially upright when the gear is lowered, said shock strut also having a lower section telescoping with respect to said upper section and carrying a landing wheel at the lower end thereof, a scissors linkage comprising pivotally connected links one of which is pivoted to the lower strut section and the other of which is pivoted to the upper strut section, a roller carried by the last mentioned one of the links, a wheel aligning cam mounted on said yoke and engaged by said roller when said shock strut is extended by the removal of ground load from the gear, a motor for turning the strut in the yoke for steering the aircraft on the ground, said motor comprising a cylinder and piston unit connected



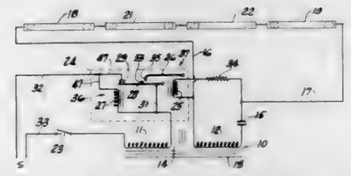
to and arranged to act between the yoke and the upper strut section, and means connecting and acting between the aircraft and said yoke for swinging the latter as a unit with said motor and shock strut and wheel about said transverse axis to raise the gear into retracted position within the aircraft.

2,535,168
TIMING DEVICE FOR WASHING MACHINES
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application March 29, 1946, Serial No. 658,177
4 Claims. (Cl. 161—1)



1. Timing mechanism for disengaging the power drive to a washing machine operated from any suitable power source, comprising a driven shaft, a clutch secured to the driven shaft, a pinion loose on the driven shaft but connected to the power drive, a shifter rod for moving the pinion longitudinally of the driven shaft and into and out of engagement with the clutch, a timer adapted to be set for any predetermined period of operation of the driven shaft, a bracket mounted about the shifter rod, a latch supported by and rotatably mounted in the bracket and spring-biased to latching position, a collar attached to the shifter rod adjacent the latch and when engaged by the latch retaining the shifter rod in operative position in which the power drive supplies power to the driven shaft, means for connecting the timer to the latch for rotating the latter and thereby automatically disengaging it from the collar when the timer has reached the end of the predetermined period for which it is set, and tension means connected to the collar and to a fixed part of the machine for returning the shifter rod to its inoperative position in which it disengages the pinion from the clutch.

2,535,169
ALTERNATING CURRENT SUPPLY SYSTEM
Joseph G. Sola, River Forest, Ill., assignor to Sola Electric Company, Chicago, Ill., a corporation of Delaware
Application February 26, 1948, Serial No. 11,021
14 Claims. (Cl. 323—61)



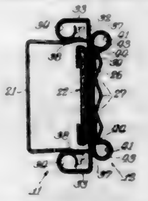
1. Alternating current supply apparatus for discharge apparatus having relatively high starting and low operating voltages comprising, a transformer having input and output circuits, said output circuit being adapted to be connected to said discharge apparatus, circuit interrupting means connected in series with said input circuit, responsive means connected across said output circuit for opening said circuit interrupting means, and second responsive means having relatively high impedance connected across said circuit interrupting means for holding said circuit interrupting means open.

2,535,170
BOBBY PIN OPENER
Doris G. Stephenson, Denver, Colo.
Application July 29, 1948, Serial No. 41,216
1 Claim. (Cl. 132—1)

A bobby pin opener comprising: a relatively thin plate; a mounting pad joined to and extending rearwardly from the lower edge of said plate at an acute angle to said plate; and an arcuate upper edge joined to and extending across the upper edge of said plate and arcing downwardly therefrom, there being a horizontally elongated, transversely extending slot formed substantially in the middle of said plate.

2,535,171
HEAT SEALING DEVICE
Harold C. Sundstrom, Chicago, Ill.
Application January 31, 1950, Serial No. 141,515
10 Claims. (Cl. 154—42)

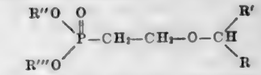
1. A heat sealing device of the character described comprising a pair of heated clamping jaws adapted to be clamped over the edges of a container comprising a heat sealable packaging material, cooperating clip means detachably securable to said jaws, and a protective fabric disposed over the contact surfaces of said clip means and retained in place thereon by said clip means whereby direct contact of said surfaces with the



packaging material is avoided during use of the device.

2,535,172
DIALKYL 2-ALKOXY-ETHANEPHOSPHONATES AND PROCESS OF PREPARING
Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 25, 1949, Serial No. 78,459
5 Claims. (Cl. 260—461)

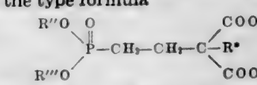
1. The process which comprises effecting addition reaction of an aliphatic saturated monohydric non-tertiary alcohol and a dialkyl ester of ethenephosphonic acid in the presence of a basic catalyst and thereby forming a compound having the type formula



where R and R' are selected from the class consisting of hydrogen and alkyl groups and R'' and R''' are alkyl groups.

2,535,173
3 - PHOSPONOPROPANE - 1,1, - DICARBOXYLIC ACID ESTERS AND METHOD OF PREPARATION
Pliny O. Tawney, Passiac, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application February 25, 1949, Serial No. 78,460
5 Claims. (Cl. 260—461)

1. The process which comprises effecting addition reaction of a dialkyl ester of an acid selected from the group consisting of malonic acid and mono-alkyl malonic acids and a dialkyl ester of ethenephosphonic acid in the presence of a basic catalyst and thereby forming a compound having the type formula

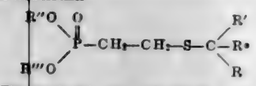


where R, R', R'' and R''' are alkyl groups and R* is selected from the group consisting of hydrogen and alkyl groups.

2,535,174
MERCAPTOETHANEPHOSPHONATES
Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 7, 1949, Serial No. 86,109
9 Claims. (Cl. 260—461)

1. The process which comprises effecting heating a mixture of a saturated aliphatic mercap-

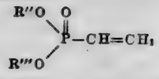
tan, a dialkyl ester of ethenephosphonic acid and a basic catalyst and thereby forming a compound having the formula



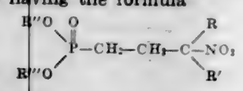
where R, R° and R′ are selected from the group consisting of hydrogen and alkyl groups, and R″ and R‴ are alkyl groups.

2,535,175
NITROALKANEPHOSPHONATES
Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 11, 1949, Serial No. 92,740
7 Claims. (Cl. 260—461)

1. The process which comprises effecting addition reaction of a compound selected from the group consisting of primary and secondary nitroalkanes with an ester of ethenephosphonic acid having the formula

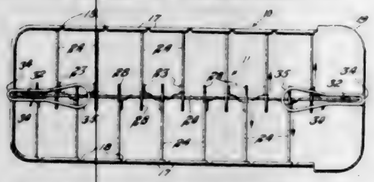


where R″ and R‴ are selected from the class consisting of alkyl, aryl, alkaryl and aralkyl groups in the presence of a basic catalyst selected from the group consisting of the alkali metal salts of said nitroalkane, alkali metal oxides and hydroxides, alkaline earth metal oxides and hydroxides, pyridine, piperidine, and quaternary ammonium hydroxides and thereby forming a compound having the formula



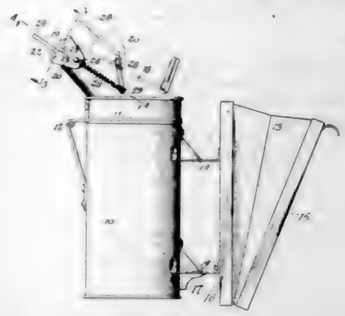
where R and R′ are selected from the group consisting of hydrogen and alkyl groups and R″ and R‴ are as before.

2,535,176
ICE TRAY
Robert S. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application February 28, 1946, Serial No. 650,827
10 Claims. (Cl. 62—108.5)



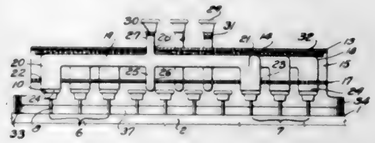
1. The method of freeing ice cubes bonded to the continuous longitudinal and articulated lateral partitions of a grid in an ice freezing tray which comprises moving the grid relative to the tray, restraining the movement of the lateral partitions at fixed points during such movement to cause them to pivot with respect to the longitudinal partition, and applying a series of force couples at spaced points along the longitudinal partition to cause it to warp sinuously throughout its length.

2,535,177
CLOSURE FOR BEEHIVE SMOKERS
Robert H. Volgenau, Buffalo, and John M. Hooe, Ogdensburg, N. Y.
Application July 11, 1946, Serial No. 682,853
1 Claim. (Cl. 222—512)



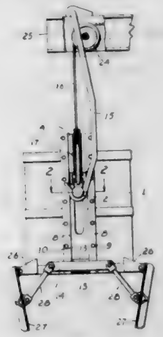
A closure for the outlet spout of a beehive smoker, comprising a transverse head of sheet metal movable toward and from the front end of said spout and having its central part deflected backwardly and forming on the rear side thereof a convex stopper adapted to extend over the front end of said spout and a concave seat on the front side of said head, sheet metal attaching arms formed integrally with said head at opposite ends thereof and normally arranged on opposite sides of said spout and each arm provided at its rear end with an opening, a wire handle having a helical finger-piece which engages with said concave seat, two legs formed integrally with said finger piece at opposite ends thereof and said arms and each leg provided at its rear end projecting rearwardly along the outer sides of with a hook which engages with the opening of the respective arm, and two helical springs normally arranged along opposite sides of said arms and spout and each spring being connected at its front end with the hook of one of said legs and adapted to be connected at its rear end with the corresponding side of said spout.

2,535,178
AUXILIARY KEYBOARD
Wilbur E. Walker, Wichita, Kans.
Application March 15, 1948, Serial No. 14,885
5 Claims. (Cl. 235—146)



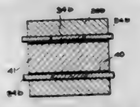
1. An attachment for calculating machines having related banks of tabulating keys arranged in parallel columns with the columns in one bank corresponding to the columns in the other bank, said attachment comprising a unitary actuating means for simultaneously actuating the corresponding keys of each of the corresponding columns of keys and having portions adapted to engage said keys, and means for removably supporting said actuating means on said calculating machine.

2,535,179
CUPOLA CHARGING BUCKET
Allan G. Wallsworth and Edwin C. Nielson, Milwaukee, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 20, 1946, Serial No. 671,036
4 Claims. (Cl. 294—71)



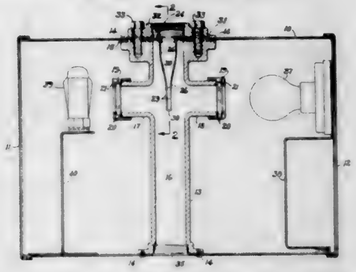
1. In a cupola charging bucket an open ended bucket body, door means hingedly attached near the bottom of said bucket body at a hinge line disposed exterior to the bottom opening of said body, said door means being adapted to be raised to close said bottom opening, door-controlling suspension-means vertically movable with respect to said bucket body and cooperatively engaging said door means adapted to cause and maintain closure of said door means when a suspending force is applied thereto, detachable hoisting means adapted to be secured to said door-controlling suspension-means, trunnions secured to and extending laterally from the sides of said bucket body, and a discharging bail having hooked lower free ends spaced to engage said trunnions independently supported at a pre-determined elevation in the path of vertical movement of said bucket and being swingable from a position in which said trunnions are engaged to a position beyond the path of vertical movement of said trunnions, said bail being adapted when in engagement with said trunnions to support said bucket body at a pre-determined elevation and while so supporting said bucket body to permit lowering of said door-controlling suspension-means and the opening of said doors.

2,535,180
METHOD OF MOLDING HOLLOW ARTICLES FROM REFRACTORY MATERIALS UNDER HEAT AND PRESSURE
George R. Watson, Chippawa, Ontario, Canada, assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application February 5, 1947, Serial No. 726,469
5 Claims. (Cl. 25—156)



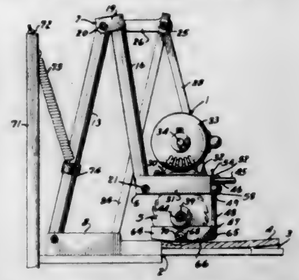
1. Method of molding hollow bodies from refractory material comprising filling a mold cavity with a core and with the material to be molded, simultaneously heating and pressing until the material is sintered and compacted and then, before the material has had a chance to cool substantially, removing the core.

2,535,181
TURBIDITY DETECTOR
Arnold D. Way, Bronxville, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
Application July 21, 1947, Serial No. 762,227
2 Claims. (Cl. 88—14)



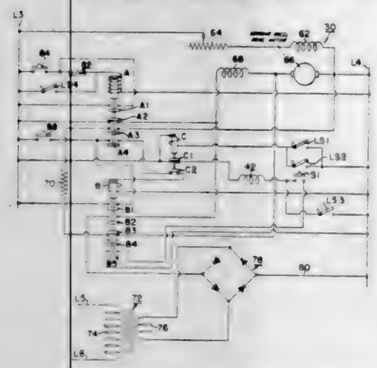
1. A turbidity detector guide tube having a straight vertical passageway therein, the lowermost portion of said guide tube being flattened to provide two parallel sides and reduce said passageway to uniform thickness, two wedge shaped filler pieces within said flattened portion so placed as to make the width of said passageway downwardly converging in width, matching cut-outs in both said parallel sides, and means for admitting liquid to the upper end of said vertical passageway.

2,535,182
UNIFORM DEPTH OF CUT WOODGROOVING MACHINES
Levi A. Weaver, Kansas City, Kans.
Application July 29, 1948, Serial No. 41,190
5 Claims. (Cl. 144—136)



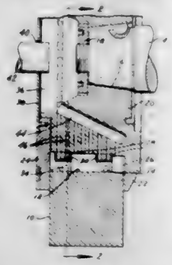
1. In a woodworking machine, a table for supporting material for woodworking operations, a carriage, means on the table for supporting the carriage for movement transversely and vertically relative to the table, a circular cutter, means mounted under said carriage for rotatably mounting the circular cutter, a motor on the carriage and having driving connection with the cutter for rotating the same, gauge means on the carriage having work-engaging portions extending alongside of the cutter to limit the depth of a cut made by the cutter, and rollers mounted on the gauge means below the axis of the cutter with the lowermost point of said roller slightly below said work-engaging portion.

2,535,183
GRINDING WHEEL DRESSING APPARATUS
John C. Wilson, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application September 7, 1946, Serial No. 695,382
7 Claims. (Cl. 125—11)



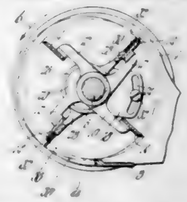
1. In combination; a direct current motor; a high voltage and a low voltage direct current supply means for said motor; a braking resistor connected in circuit across the armature of the motor, means connecting the motor with the high voltage supply including a first contactor means selectively operable to connect the armature with the high voltage supply means and to disconnect the armature of the motor from the high voltage supply and for connecting the braking resistor thereacross; second contactor means connected in circuit with said braking resistor and connected with said low voltage supply means and selectively operable to open the braking circuit across the armature and to connect the armature to the low voltage supply, and a normally open switch in series with said second contactor means and arranged to be closed by said first contactor upon energization thereof.

2,535,184
METHOD AND APPARATUS FOR SUPPLYING COOLANT TO GRINDING WHEELS
John C. Wilson, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application April 13, 1949, Serial No. 87,226
16 Claims. (Cl. 51—267)



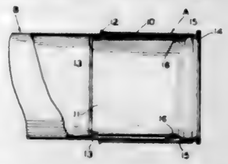
1. In combination with a grinding wheel having a central axial cavity, a hub in said cavity of smaller diameter than the cavity to form therewith an annular chamber, flange means on said hub engaging opposite faces of the wheel and supporting the wheel on the hub, said hub having a central recess, said hub having a plurality of circumferentially spaced substantially axial passage means extending from said recess partway through said hub, and said hub also having a plurality of substantially radial passage means connecting each said axial passage means with said chamber.

2,535,185
LAWN MOWER REEL
Edward Adamczyk, Indian Orchard, Mass.
Application November 14, 1949, Serial No. 127,149
1 Claim. (Cl. 56—294)



The combination with the longitudinal stationary cutter bar and rotatable shaft extending from the end frame of a lawn mower having a spider fixed on said shaft provided with radial arms having elongated rotatable spiral cutter bars thereon with means for engaging grass and the like for the cooperative action of said cutter bars and stationary bar comprising, a bracket oscillatable on said shaft adjacent said end frame, means for securing said bracket to said frame in adjusted position, said bracket provided with a cylindrical journal on an inner side thereof having a longitudinal axis disposed parallel to and at a side of the longitudinal axis of said shaft, a comb bar spider freely rotatable on said journal having radially extending arms, elongated comb bars having ends thereof fixed against movement to outer portions of the arms of the comb bar spider for engagement by said rotatable cutter bars and provided with outwardly extending projections along outer longitudinal edges thereof, said comb bar spider and arm thereof being unconnected to the cutter bar spider and arms for relative movements of said comb bar and cutter bar spiders on their respective axes and movement of said comb bars between and towards and away from said rotatable cutter bars, all adapted and arranged whereby as the said rotatable cutters bars are rotated by said shaft and cutter bar spider said comb bars are engaged and rotated by and in contact with said cutter bars.

2,535,186
STOVEPIPE CONNECTOR FOR CHIMNEYS AND THE LIKE
Joel F. Anderson, Minneapolis, Minn.
Application December 11, 1946, Serial No. 715,525
2 Claims. (Cl. 285—185)



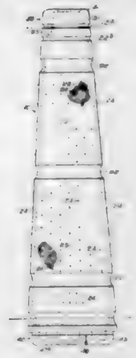
1. A device for connecting stove pipes to a chimney comprising an outer tubular pipe embracing member having one end thereof outwardly flared to guide the initial thrust of a pipe therein and adapted to receive and tightly embrace a portion of said pipe, an inner sleeve concentrically disposed within said outer tubular member and extending at least the full length thereof in concentrically spaced relation thereto to form an air space therewith to prevent excessive heating of the outer tubular member, an inwardly extending peripherally formed sealing bead securely joining the other end portion of said sleeve and said outer tubular member to form a peripheral recess in the outer circumference of said joined portions to receive the sealing mortar forming the connection between the outer member and the chimney and interlock said connector to the chimney.

2,535,187
LIQUID COOLED CABLE FOR WELDING EQUIPMENT
Nelson E. Anderson, Scotch Plains, and Stephen L. Sullivan, Red Bank, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1947, Serial No. 782,898
7 Claims. (Cl. 174—15)

1. A cable for electric welding equipment comprising a pair of flexible tubes twisted about each other longitudinally of the cable, a braid of conducting metal, and a casing of flexible material disposed about and enclosing the braid and twisted tubes and affording a space for cooling water.

2,535,188
TUBULAR WINDING CORE
Donald O. Beckner, South Lancaster, Mass.
Application May 4, 1948, Serial No. 24,943
11 Claims. (Cl. 242—122)

1. A tubular winding core for packaging textile strands, cordage and the like comprising a plurality of component parts individually integrally molded of plastic material and including two semi-round trough-like half sections defining in mated opposition a conical tubular shell having reduced longitudinal terminal rims at the opposite ends, and annular base and head members of outer diameter respectively conforming them to the shell outer circumference at the corresponding ends, each of said members having a centrally apertured transverse portion providing an outer end wall for the corresponding end of the core, a sleeve marginal to the central aperture and extending inwardly from the end wall to define with the aperture a circumferential bearing for a spindle, and at the inner face of the transverse portion an annular channel with



parallel cylindrical lateral walls of a diameter and radial spacing for direct telescoping enclosure and rigid interlocking reception of the corresponding shell terminal rims abuttively inserted therein.

2,535,189
POLYMERIZING VINYL ACETATE IN GRANULAR FORM
Gwyn Benson and Robert L. Perks, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application May 23, 1949, Serial No. 94,932
9 Claims. (Cl. 260—89.1)

1. A process for preparing polyvinyl acetate in granular form which comprises (A) dispersing vinyl acetate in an aqueous medium containing, (1) as emulsifying agent, a material of the group consisting of (*a*) a polyvinyl alcohol that is derived from polyvinyl acetate having a viscosity of about 600–800 centipoises at 20° C. in a molar benzene solution and contains 15–30% acetate groups by weight calculated as polyvinyl acetate, (*b*) a polyvinyl alcohol that is derived from polyvinyl acetate having a viscosity of 2–15 centipoises at 20° C. in a molar benzene solution and contains 30–45% acetate groups by weight calculated as polyvinyl acetate, (*c*) a mixture of two polyvinyl alcohols, one of which is derived from polyvinyl acetate having a viscosity of 40–80 centipoises at 20° C. in a molar benzene solution and contains 5–20% acetate groups by weight calculated as polyvinyl acetate and the other is derived from polyvinyl acetate having a viscosity of 2–15 centipoises at 20° C. in a molar benzene solution and contains 20–50% acetate groups by weight calculated as polyvinyl acetate, (2) a peroxide polymerization catalyst, and (3) 0.05% to 1.0%, by weight of the total dispersion of vinyl acetate and aqueous medium, of a dispersing agent of the group of dispersing agents made by condensing sulfonic acids of aromatic hydrocarbons with formaldehyde and neutralizing to obtain a salt, said dispersing agent being one whose 1% aqueous solution has a surface tension of not less than about 50 dynes/cm. at 25° C., (B) heating and agitating the resulting mixture to polymerize the vinyl acetate, and (*c*) recovering the resulting granular polyvinyl acetate.

2,535,190
MANUFACTURE OF ALKYLLEAD COMPOUNDS
George Calingaert and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 1, 1949, Serial No. 85,053
4 Claims. (Cl. 260—437)

1. A process for making alkyllead compounds which comprises alkylating free lead in the presence of free magnesium and a catalyst.

2,535,191
MANUFACTURE OF ALKYLLEAD COMPOUNDS
George Calingaert and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 28, 1949, Serial No. 107,385
7 Claims. (Cl. 260—437)

1. In a process for making lead alkyl compounds by reacting a alkylating agent with a sodium-lead alloy, the improvement comprising first alloying at least about 2.5% by weight of magnesium with such sodium-lead alloy to activate it and then reacting said ternary alloy in the presence of an alkylating catalyst having an atom which chemically coordinates with magnesium.

2,535,192
MANUFACTURE OF ALKYLLEAD COMPOUNDS
George Calingaert and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 28, 1949, Serial No. 107,386
2 Claims. (Cl. 260—437)

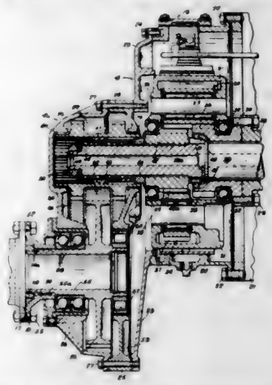
1. A process for making lead alkyl compounds which comprises alkylating a sodium-magnesium-lead alloy in which the percentages by weight are between about 0.5 and 15 sodium, between about 3 and 19.5 magnesium, and between about 80 and 95 lead.

2,535,193
PROCESS FOR MAKING HYDROCARBON-LEAD COMPOUNDS
George Calingaert and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 24, 1949, Serial No. 135,021
7 Claims. (Cl. 260—437)

7. A dual process for making tetraethyllead comprising treating a sodium-lead alloy with ethyl chloride, and reacting ethyl chloride and ethylmagnesium chloride with the free lead so formed.

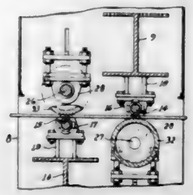
2,535,194
FORWARD AND REVERSE TRANSMISSION GEARING
John H. Carpenter, Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application June 1, 1949, Serial No. 96,509
5 Claims. (Cl. 74—355)

1. Transmission mechanism for interchangeable assembly with a clockwise or counter-clockwise driven shaft comprising: a spur gear removably secured to said shaft; a pair of spaced pinions in mesh with said gear; an intermediate pinion engaged with said pinions; said pinions having journals located on a common arc centered on the axis of the spur gear; a drive shaft; means for removably securing said intermediate pinion to said drive shaft for rotation of said



driven shaft in one direction; means for relocating the pinions on the arc, and means to removably secure one of the spaced pinions to the drive shaft for rotation of said spur gear and said driven shaft in the opposite direction.

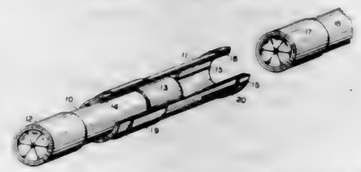
2,535,195
APPARATUS FOR TREATING WOOD VENEER BY FORMING SPACED INCOMPLETE SLITS THEREIN
John Colucci, Jr., and Robert G. Redmayne, Wilmington, N. C.
Application July 30, 1948, Serial No. 41,438
2 Claims. (Cl. 144—2)



1. Apparatus for treating wood veneer comprising a frame, an upper beam, a lower beam, said beams being supported in the frame and offset from one another vertically, a plurality of hangers spaced longitudinally along each beam, the hangers extending downwardly from the upper beam and upwardly from the lower beam, the hangers extending from each beam having aligned bearings for a shaft, an upper shaft extending through the aligned bearings of the hangers depending from the upper beam, a lower shaft extending through aligned bearings of the hangers extending upwardly from the lower beam, said shafts being substantially parallel, a plurality of knives mounted in spaced relation on each shaft, spacers between the knives, holding the knives, including those adjacent the hangers, in substantially equally spaced relation, a platen above the knives on the lower shaft, a platen below the knives on the upper shaft, supports for holding said platens spaced from the knives on the respective shafts, the planes of the knives on the respective shafts being in non-alignment in a direction normal to the axes of the shafts, the

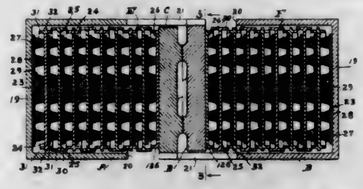
platens being so positioned, vertically, that horizontal planes tangent to the lowermost part of the periphery of the upper platen and the uppermost part of the periphery of the lower platen are spaced from one another, whereby a veneer passed horizontally between the respective knives and cooperating platens will have slits formed in its upper and lower surfaces of a depth less than the thickness of the veneer with the lines of slits in the upper surface being between the lines of slits in the lower surface.

2,535,196
EXPLOSIVE CARTRIDGE UNIT
Lewis B. Counterman, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application April 19, 1946, Serial No. 663,297
7 Claims. (Cl. 102—24)



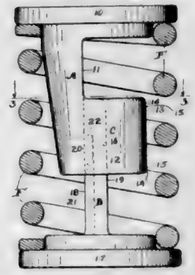
1. An explosive cartridge unit adapted to be connected to a similar unit comprising a cylindrical explosive cartridge; a leading collar formed on the exterior peripheral portion of one end of said cartridge; a retaining collar formed on the exterior peripheral portion of said cartridge and on the end opposite to said leading collar; a hollow cylindrical connecting sleeve; a slidable collar formed on the interior peripheral portion of said sleeve and slidably retained on the cartridge between said leading and retaining collars; a locking collar formed on the interior peripheral portion of said sleeve which extends substantially beyond said cartridge and on the end opposite said slidable collar; a slot substantially parallel to the central axis and extending from the projecting end of said sleeve to a point forward of the locking collar; a sliding sleeve slidably mounted on the connecting sleeve and adapted to be positioned over said slots; and a stop collar whereby the movement of said sliding sleeve is limited.

2,535,197
SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application November 14, 1946, Serial No. 709,809
3 Claims. (Cl. 213—45)



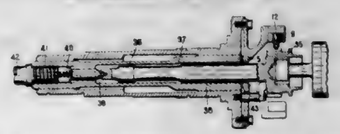
1. In a cushioning unit for shock absorbing mechanisms, the combination with a series of rubber mats; of a plate bearing on the mat at one end of said series; and a series of spacing plates alternated with said mats, one of said plates of said series being interposed between the rubber mat at said end of the series and the remaining mats of said series, each plate of said series having flanges at opposite sides thereof overhanging the adjacent mats, the flanges of the plates of said series being telescoped with each other, and said first named plate having a flange overhanging the adjacent mat and telescoped with the corresponding flange of the adjacent plate of said series of plates.

2,535,198
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application January 13, 1949, Serial No. 70,690
6 Claims. (Cl. 267—9)



1. In a friction shock absorber, the combination with a friction post; of a friction shoe and post embracing said first named post on opposite sides in lengthwise sliding engagement therewith, said first named post and said second named post and shoe being relatively movable lengthwise toward each other; a lateral abutment; yielding means between said abutment and shoe, said means being under lateral compression for pressing said shoe against said first named post and the latter against said second named post; and spring means shouldered at opposite ends against said posts respectively for yieldingly opposing relative lengthwise movement of said first named post and said second named post and shoe toward each other.

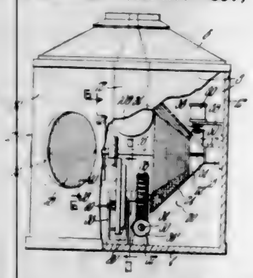
2,535,199
GEAR HOLDING DIAPHRAGM CHUCK
Bernard C. Day, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Application May 28, 1947, Serial No. 751,071
10 Claims. (Cl. 279—1)



8. A chuck comprising a supporting member, a diaphragm fixed to said supporting member about its margin and extending perpendicular to and concentric with the axis of rotation of said chuck, a plurality of fingers angularly spaced about said axis and projecting forwardly from said diaphragm, a pin projecting inwardly from the outer portion of each finger and having a tapered inner end portion for engagement between adjacent teeth of a gear held between said

pins, said supporting member being tubular, said gear having a coaxial shaft portion extending into the tubular portion of said supporting member, a sleeve in said tubular portion within which said shaft is positioned, and a cone center carried by said sleeve for engaging and centering the inner end of said shaft.

2,535,200
TRAFFIC SIGNAL
Walter F. Freeman, Springfield, Mass.
Application October 4, 1948, Serial No. 52,671
2 Claims. (Cl. 177—337)

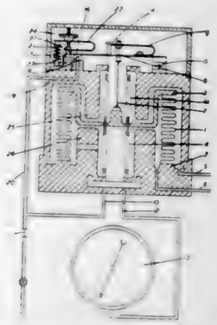


1. Signal apparatus comprising in combination, a housing having bottom and side walls extending vertically upwardly therefrom and an upper wall secured to upper ends of the side walls, said side walls arranged in opposite pairs thereof, the walls of each pair disposed in diverging relation and extending towards the walls of the other pair, each of said side walls provided with windows therethrough, a shaft extending between and having opposite ends journalled for rotation in said side walls, signal devices fixed to said shaft adjacent opposite ends thereof, each said signal device including a plurality of circumferentially arranged colored transparent members, the transparent members of each said signal device diverging inwardly towards the members of the other said signal device and on an angle substantially similar to the angle of divergence of the walls of the pairs thereof whereby the members may be disposed inwardly of the windows, operating means to rotate said shaft in a step-by-step manner to position different transparent members of said signal devices adjacent the windows, a light bulb depending from said upper wall and disposed between said signal devices, and means to lock said shaft against rotation.

2,535,201
MAGNETICALLY ACTUATED DIRECTION INDICATOR
Charles A. Gossett, Portland, Oreg.
Application December 20, 1948, Serial No. 66,391
1 Claim. (Cl. 33—222)

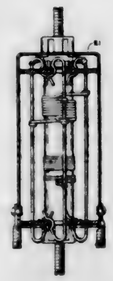
A magnetically actuated direction indicator comprising in combination an elongated cylindrical vertical housing closed at its bottom end and flanged inwardly at its upper end, a vertical pin secured to the bottom end of the housing and pointed at its upper end, a vertically disposed inverted U-shaped magnet disposed within said housing, a jewel bearing secured to the closed or upper end of said magnet and rotatably mounted on the pointed end of said vertical pin, a collar surrounding said pin and secured between the open bottom ends of said magnet, an indicating pin secured to one side of said magnet at the upper end thereof and extending upwardly and outwardly over said flanged upper end of the housing and adapted for contact with a finger of the user, and nodules formed about said flanged end of the housing corresponding with the points of a compass whereby the user may determine by the sense of touch the location of said indicating pin with respect to said nodules and the points of a compass represented thereby.

2,535,202
INDICATING, RECORDING, AND CONTROLLING APPARATUS
Charles Henry Gregory, Eaglescliffe, and John Hall, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application February 27, 1945, Serial No. 579,982
In Great Britain March 7, 1944
2 Claims. (Cl. 137—153)



1. In apparatus whereby the difference between two fluid pressures which may vary can be indicated, recorded or controlled, the combination of: a simple lever; a flexible strip suspending the lever; a metallic bellows of substantially cylindrical form, anchored at its bottom end and situated within a space closed except for an aperture, having a wide diameter relative to its height and to the interior of which one of the aforesaid fluid pressures and to the exterior of which the other aforesaid fluid pressure can be applied, whereby a differential pressure tending to cause the bellows to move is set up; a second strip connecting the upper end of the bellows to the lever for the purpose of applying to the latter a force varying with the aforesaid pressure differential; a second substantially cylindrical metallic bellows situated within and rigidly connected at its upper end to the upper end of the first metallic bellows and of narrower diameter than, and isolated interiorly from it; a duct; a source of substantially constant fluid pressure connected to said duct and to the interior of said second metallic bellows; a horizontally arranged seating at the end of the said duct; a sphere cooperating with the seating and controlling the egress of the last mentioned fluid from the duct, and hence the supply thereof to the inside of the second metallic bellows, whereby the latter exerts a force tending to bring the lever into equilibrium; and an abutment for said sphere connected to said lever so as to move normally to said lever as it moves under the action of the aforesaid applied force.

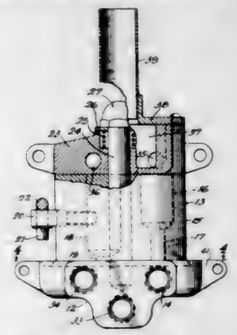
2,535,203
HIGH-FREQUENCY TRANSFORMER CONSTRUCTION
Edwin I. Guthman, Chicago, Ill., assignor to Edwin I. Guthman & Co., Inc., Chicago, Ill., a corporation of Illinois
Application April 6, 1949, Serial No. 85,765
1 Claim. (Cl. 171—242)



A transformer or the like for high frequencies comprising an insulating tube, windings disposed upon said tube, insulating plates at the ends of said tube, said plates having aligned apertures, conductors having spring loops, there being one conductor threaded through a pair of aligned apertures in the plates with the spring loops disposed in said apertures, said spring loops having hooked portions for locking the conductors in the insulating plates, connections from said windings to said conductors, a metal shielding can disposed over said insulating tube and insulating plates, and means for retaining said tube and plates within said can, said spring loops extending out of said can at the end thereof for establishing circuit connections, said apertures being arranged in said plates so that the conductors are disposed generally symmetrically around the insulating tube and said shielding can being disposed generally symmetrically with respect to said tube whereby substantially equidistant spacing of said conductors from said windings and from the walls of the shielding can is secured.

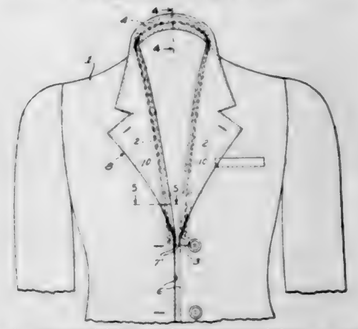
2,535,204
MEASURED LIQUID FEED
Emil E. Hageline, Chicago, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois
Application May 13, 1947, Serial No. 747,871
7 Claims. (Cl. 222—277)

1. In apparatus for intermittently supplying a measured quantity of liquid, a supply container of the liquid supported at one level, a measuring device supported at a lower level, said device comprising fixed end closure members and a rotatably-mounted body therebetween providing at least one chamber on one side, an actuating arm connected to said body between said closure members, a conduit from said container to the lower end closure, a conduit extending upwardly from said upper closure, and ports in said closures establishing communication between said conduits and chamber when the rotatably-mounted body is moved to one position, said lower closure having a discharge port communicating with said



chamber when the body is rotated to a second position and out of contact with said conduits.

2,535,205
CONVERTIBLE JACKET
Tom C. Harry, New Orleans, La.
Application May 7, 1949, Serial No. 91,923
3 Claims. (Cl. 2—98)

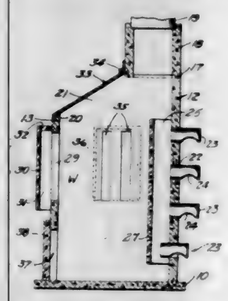


2. A convertible jacket comprising a collarless, open front jacket having a continuous finished, unfolded edge about the neck and the breast and front portions of the jacket, the opposing edges of the breast portions converging from the neck toward and merging at a tangency into the edges of the front portions, a zipper strip secured about said unfolded edge and spaced from the edge on the inner face thereof, a folded unitary combined collar and lapel member shaped to embrace and fit about said edge and of a length to merge tangentially into the front portions, the outer fold of said member constituting the collar and lapels and the inner fold terminating with the lower extremities of the lapel portions, and a cooperative zipper strip on the inner face of the inner fold spaced from the edge thereof so as to be outwardly invisible, whereby the jacket presents but a single layer on each front edge below the terminus of each lapel when the collar is attached.

2,535,206
INCINERATOR
Harlow H. Hathaway, Los Angeles, Calif.
Application January 10, 1948, Serial No. 1,639
4 Claims. (Cl. 110—18)

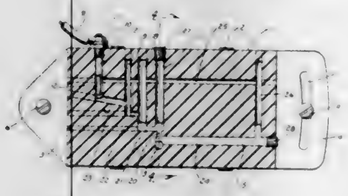
1. In a refuse burning incinerator comprising a base slab, enclosing side walls connected thereto

by substantially airtight joints, and an upper closure member connected to the side walls to enclose a combustion chamber having a flue outlet and a charging door opening through an upper portion thereof, with a door covering said latter opening; a pair of oppositely positioned angle members mounted vertically and in laterally spaced apart relation to each other on the inner side of a combustion chamber wall, the angle members terminating at bottom and top respectively short of



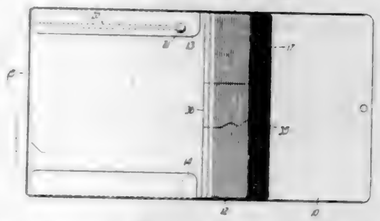
the bottom slab and the upper closure member thereby to support refuse in the combustion chamber in inwardly spaced relation to the wall, the wall having a draft opening therethrough in communication with the space between the said angle members, and draft control means mounted to control air flow through said draft opening thereby to introduce controlled amounts of draft air into and over refuse matter in the combustion chamber for drying refuse matter and supporting combustion from the top and sides only thereof.

2,535,207
SAFETY SWITCH
Cecil E. Hook and Zenus E. Hook, Des Moines, Iowa
Application December 3, 1948, Serial No. 63,248
6 Claims. (Cl. 200—52)



6. A safety switch comprising a body member having a pair of terminals mounted therein, said body member being formed with a series of upright channels of progressively increasing length and a corresponding series of vertically spaced horizontal channels, with said upright channels having the lower ends thereof terminating at their corresponding horizontal channels and with each horizontal channel being extended between adjacent upright channels, with one of said terminals being positioned within the upper end of the shortest one of said upright channels, and the other terminal within the lower end of the longest one of said upright channels, and mercury within said channels normally contacting said other terminal.

2,535,208
MOMENT OF INERTIA CALCULATING DEVICE
Richard L. Hoover, Buffalo, N. Y.
Application December 17, 1949, Serial No. 133,549
10 Claims. (Cl. 35—19)



10. Means for graphically producing the moments of inertia of areas comprising a holder, a plurality of superposed sheets mounted on said holder for guided lineal movement longitudinally of the holder, said sheets having a predetermined initial position wherein a relatively narrow transverse edge portion thereof of predetermined longitudinal extent projects beyond the corresponding edge of the sheet above, a stop on said holder and elongate graduated recesses formed in said sheets to provide gauging edges for engagement with said stop means, said recesses being so proportioned that when said sheets are moved to dispose said gauging edges against the stop on said holder the sheets are relatively shifted longitudinally so that the longitudinal extent of each projecting edge portion is adjusted to equal the predetermined initial extent of exposure multiplied by the square of its mean distance from an assumed axis of rotation.

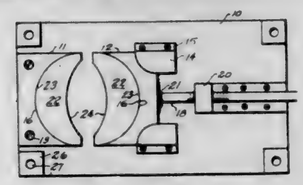
2,535,209
SELECTIVE TREE BANDING COMPOSITION
Bert Hubert, Batavia, Dutch East Indies, assignor, by mesne assignments, to N. V. D. de Wit Hzn, Rijswijk, Netherlands, a corporate body of the Netherlands
No Drawing. Application November 26, 1946, Serial No. 712,254. In the Netherlands April 19, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 19, 1964
8 Claims. (Cl. 167—49)

1. A tree banding composition for controlling insects such as the winter butterfly, which has an adhesive power sufficient to hold permanently members of one sex but not to hold permanently larger members of the other sex of an insect species and which comprises chlorinated paraffin as the principal adhesive component, a quantity not exceeding about 10% of a normally solid aliphatic hydrocarbon that raises the melting point of the chlorinated paraffin, and a small quantity of an oleophilic fatty acid substance.

2,535,210
JAR CLAMP
Foyster R. Jackson, Hazel Park, Mich.
Application September 4, 1947, Serial No. 772,188
1 Claim. (Cl. 81—3.32)

A jar clamp comprising a base, complementary jaws thereon, one of which is fixed thereto and the other of which is slidably mounted thereon, said jaws being in the form of wooden blocks having facing semi-circular edges, and liners for such edges comprising rubber pads, screw means for moving the slidable block and its pad towards

and away from the fixed block and its pad, said liners having semi-circular edges engaging the semi-circular edges of the blocks and having arcuate work engaging edges of a radius of curvature greater than the radius of curvature of their

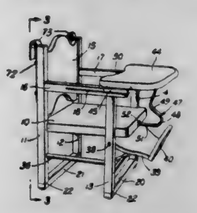


semi-circular edges, the centers of curvature of the block and pad edges being on the same straight line, coincident with the axis of the screw means, whereby the pads are wider at their centers than at their ends.

2,535,211
FISH LURE
James F. Jelinek, Milwaukee, Wis.
Application April 15, 1949, Serial No. 87,607
3 Claims. (Cl. 43—42.5)

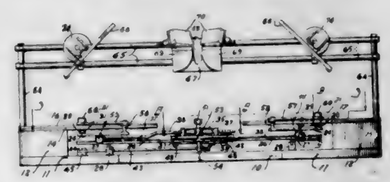
1. A reversible fish lure comprising a diamond-shaped body, a plurality of hooks attached to adjacent corners of said body, said body having means for receiving a line, said body having a slightly bowed transverse rib and a substantially straight longitudinal rib, said transverse and longitudinal ribs dividing said body into a first pair of wings and a second pair of wings of triangular contour, said first pair of wings being longitudinally shorter than said second pair of wings and being dished and oppositely slanting and said second pair of wings being dished and oppositely slanting.

2,535,212
INFANT'S CHAIR
Everard L. Johnson, Patchogue, N. Y.
Application June 26, 1946, Serial No. 679,443
5 Claims. (Cl. 155—127)



1. A stub-highchair comprising a seat, back and front leg members, a backrest joining upper ends of the back leg members, a pair of arms joining the back leg members with upper ends of the front leg members, said arms having longitudinal recesses, a tray, side portions of the tray having channel members slidably engaging the recesses of said arms in adjusting the position of the tray on said arms, rigid means extending from the tray and slidably engaging said seat for further guiding the tray in its adjustable movement on the chair, means on said seat cooperating with said last named means for retaining the tray in different positions of adjustment on said arms, said last named means comprising a cam lock element slidably mounted in the chair seat, a plate engaged by said element in movement of the element into operative positions, and a lever coupled with said element and extending beyond a peripheral portion of the chair seat for moving said element into operative and inoperative positions.

2,535,213
STEREOSCOPIC PLOTTING MACHINE
Philip B. Kail, Denver, Colo.
Application June 27, 1947, Serial No. 757,531
14 Claims. (Cl. 33—20)

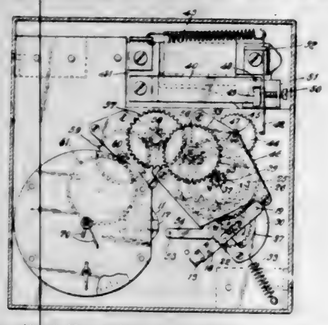


1. A planimetric plotting device comprising: two spaced-apart photo plates; an aerial photograph on each plate, said photographs being stereoscopically related; a pivot member mounted at the center of each photograph; a radial arm extending from each pivot member, said arms being rotatable about their pivot members over the surface of said photographs; a line carried by each arm intersecting the pivot thereof; slidable means arranged to move along the axis of each arm; a cross bar connecting the slidable means of one arm to the same means on the other arm, said cross bar having two-dimensional movement; means maintaining said cross bar in fixed relation to a line connecting said centers; a movable map-marking device; and means for transmitting the movements of said marking device to said cross bar.

2,535,214
ELECTRICALLY SYNCHRONIZED TIMING MECHANISM
Jesse J. Kennedy, San Bernardino, Calif., and Robert Olinger, La Salle, Ill., assignors to General Time Corporation, a corporation of Delaware
Application August 13, 1945, Serial No. 610,500
10 Claims. (Cl. 58—26)

1. A clock of the character described comprising, in combination, clock mechanism having an oscillating regulating device carrying an armature, an oscillatable magnet associated with the armature on said device and adapted to act on the armature to control the oscillation of the regulating device, a movable frame on which said magnet is pivotally supported, a synchronous motor for oscillating said magnet at synchronous frequency to cause said timing device to maintain said frequency, and means operative on

failure of motor driving current for moving said frame to separate said magnet and regulating



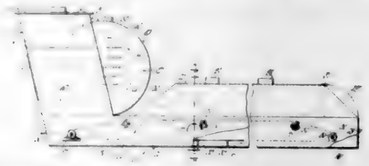
device so that the latter is not influenced by said magnet.

2,535,215
GRIPPING OR CUTTING HAND TOOL
Karl J. Klenk, Wilmington, Del.
Application December 27, 1948, Serial No. 67,390
3 Claims. (Cl. 81—44)

1. A tool of the hand grip type comprising hand levers having hand grip handles at the outer ends thereof, a swinging link pivotally connecting said levers intermediate their ends and companion jaws pivotally connected intermediate their ends and having their inner ends pivotally connected with the inner ends of said hand levers, one of said jaws being longer and having its inner end extended a greater distance than the other jaw whereby to offset the pivotal connections between the jaws and hand levers and to enable the jaws to swing into different angular relations in respect to the hand levers.

2,535,216
APPARATUS FOR DRYING
Walter W. Letts, Northville, N. Y.
Application August 10, 1949, Serial No. 109,449
6 Claims. (Cl. 34—57)

1. Drying apparatus comprising in combination, a vertically disposed receiving compartment having lower, side, front and rear and upper walls, said upper wall having an outlet on the upper side thereof and said forward wall having a hot air inlet on the forward side thereof adjacent the lower side thereof, an elongated conduit extending horizontally from the rear side thereof having a discharge outlet at its rear end, a semi-circular circulator wall on the rear side of said compartment having an inlet for sawdust in the upper side thereof and arranged and disposed

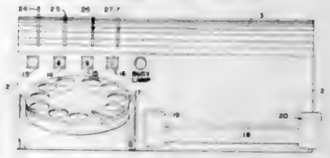


whereby hot air from said hot-air inlet is directed outwardly, upwardly and rearwardly into the receiving compartment below said sawdust inlet, and movable conveying means for conveying sawdust from the receiving chamber along said conduit to the discharge outlet thereof.

2,535,217
TREATMENT OF MATERIALS CONTAINING TUNGSTEN COMPOUNDS
Kuo Ching Li and Carl Marion Dice, Glen Cove, N. Y., assignors to Wah Chang Trading Corporation, New York, N. Y., a corporation of New York
No Drawing. Application August 24, 1948, Serial No. 45,982
7 Claims. (Cl. 75—122)

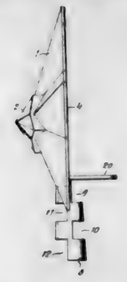
1. The process of recovering tungsten from tungsten oxide bearing materials which includes reducing said oxide with carbon at temperatures in excess of 2500° Fahrenheit in the presence of iron-tin alloy containing between about 5 to 75 per cent by weight of tin, the total amount of such alloy being such that it composes at least about 10 per cent of the total weight of said alloy and the tungsten containing product of said reduction.

2,535,218
AUTOMATIC CHARGE ACCOUNTING SYSTEM
Clarence Marble, Middlesex, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 11, 1945, Serial No. 572,407
11 Claims. (Cl. 235—61)



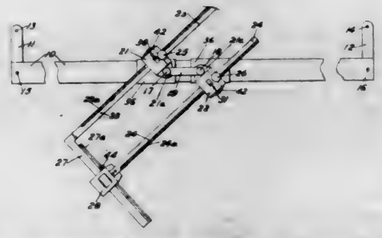
9. In an authorizing system, a plurality of sending stations, a plurality of registers, means controlled from any one of said stations for selecting and connecting with any desired one of said registers, means for transmitting numerical data from said connected station over said established connection to said connected register, means in said connected register for registering said data in response to said transmission, limiting means in said register normally effective until the data registered in said connected register exceeds a predetermined amount, recording means at the connected station controlled over said established connection by said limiting means at said connected register for making approval recordings of the transmitted data, and means for making said limiting means ineffective to control said recording means in response to the registered data on said register reaching or exceeding said predetermined amount to thereby prevent the making of the approval recordings.

2,535,219
CHRISTMAS TREE ORNAMENT
Ely S. Margolis, New York, and Hilbert A. Wachtel, White Plains, N. Y.
Application November 2, 1948, Serial No. 57,924
3 Claims. (Cl. 41—10)



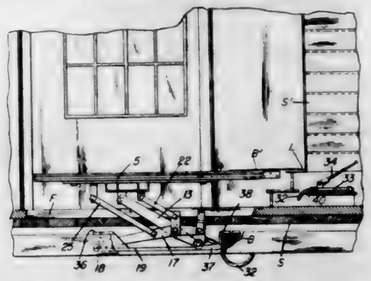
1. An ornament comprising an ornamental body at least partly translucent, a support formed integrally therewith, said support being tubular and depending from the lower edge of said body, said support consisting essentially of a series of substantially semi-cylindrical sections which are staggered and oppositely disposed with substantially semi-cylindrical openings opposite each said section, said sections being joined together along a longitudinal line, a bracket at the upper end of said tube and integral with said body and tube, the plane of said bracket being substantially at right angles to the axis of said support and having a key-hole slot therein to receive a lamp base for holding a lamp behind said body to illuminate it.

2,535,220
APPARATUS FOR SOLVING SEISMIC PROBLEMS FOR LOCATION AND DIP OF REFLECTING BEDS
Glenn M. McGuckin, Corpus Christi, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application December 10, 1946, Serial No. 715,212
16 Claims. (Cl. 33—76)



10. An instrument for contour plotting of subsurface strata comprising a pair of members having pivotal supports at points spaced in correspondence with the distance between seismic datum points and slidable in parallelism with each other, means interconnecting said members for maintaining them parallel, a scale on each of said members calibrated in terms related to seismic-reflection times, and a dip-bar extending at right angles to both of said members for all positions thereof.

2,535,221
LIFT
Otto Merkel, Hawthorne, N. Y.
Application June 11, 1949, Serial No. 98,587
5 Claims. (Cl. 187—19)

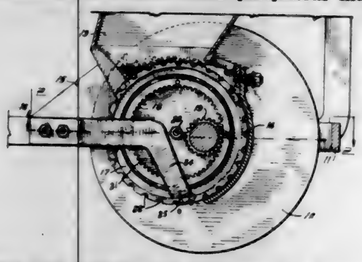


5. A lift for positioning in the same plane as and beneath a floor having floor beams therebeneath, including: a support having a pair of flanges at one end and a flange at the other end, said flanges adapted to rest on and be secured to structure attachable to but not extending below the floor beams; a pair of arms each having one end pivotally secured to one end of the support and a yoke secured to the other ends of said pair of arms; another pair of arms rigidly joined together by braces, one of said braces having a rod journalled therethrough and having the other pair of arms pivoted thereon intermediate their ends; the second mentioned pair of arms having pivoted thereto at one end a frame and base thereabove carrying a platform, the other end having journalled thereon a pair of rollers and a plate secured between the end; a fluid operated cylinder and cooperating piston between the yoke and base plate; linkage between both pairs of arms and the said frame and support; connecting means operable remote the lift to extend the piston whereby the yoke and base plate carrying one of the ends of both pairs of arms are spread apart to cause the other ends of one pair of arms carrying the frame, base and platform, to lift, the linkage between both pairs of arms and the said frame and support maintaining the platform level as it is lifted.

2,535,222
SEED EJECTOR FOR ROTARY TRAP CHAMBER TYPE SEED PLANTERS
Paul E. Milton, Johnstown, Colo.
Application May 5, 1947, Serial No. 745,987
2 Claims. (Cl. 222—218)

1. In a seed planter, a circular seed distributing wheel rotatably mounted about a horizontal axis and adapted to have rotary motion imparted to it, the peripheral marginal portion of said wheel having a rim formed with a laterally offset circumferentially extending internal channel, said channel having side walls and an outer marginal wall and being open along its inner margin said rim being formed with seed-receiving recesses spaced from each other circumferentially of the rim and communicating with the channel through the side walls and the outer marginal wall thereof for the full width of the rim, and an ejector arm free from said wheel and extend-

ing along the channeled side of the wheel and having a free end portion fitting into the channel through the open inner peripheral margin



thereof and held therein between the side walls of the channel in position for engaging seeds in the recesses and expelling the seeds from the recesses during turning of the wheel.

2,535,223
HAIR CURLING UNIT
Martha O. Montgomery, Independence, Mo.
Application April 18, 1949, Serial No. 88,184
3 Claims. (Cl. 132—33)

1. A hair curling unit comprising an elongated member having a number of pairs of longitudinally disposed slots formed therein and extending inwardly from one end thereof, the slots of each pair thereof being diametrically opposed; a collar circumscribing the member and freely slidable along the length thereof, said collar having a slit formed therein for each of said slots respectively and in register therewith when the collar is adjacent said one end of the member; and an out-turned flange on that end of the collar proximal to said one end of the member, said flange having an elongated aperture formed therein for each of said slits respectively, in register therewith, and extending radially inwardly from the periphery of the flange.

2,535,224
HEM CONSTRUCTION
Samuel Nachem, New York, N. Y.
Application March 16, 1948, Serial No. 15,163
2 Claims. (Cl. 2—232)

2. A garment having a folded hem, a lining fabric folded inside said hem, said lining fabric being stitched at one edge to the outer face of said hem, said lining fabric being stitched at its other edge to the inner face of the hem, the sides of said lining fabric being stitched together at a location near its last edge, whereby there is left an appreciable length of loop of lining fabric below said last stitching and independent of said folded hem to enable regulation of the length of the folded hem upon detachment of said last stitching.

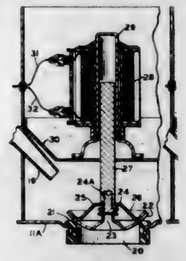
2,535,225
BASKETBALL TOY
Constantine L. Oczkowski, Chicago, Ill.
Application June 11, 1947, Serial No. 753,884
1 Claim. (Cl. 124—1)

A toy of the class described comprising a housing including a top wall, a lever pivotally supported therebelow, a lug rigidly affixed to one end of said lever, said top wall being provided with apertures therein, said lug entering and being normally retained in the lower portion of one of said apertures, the upper unfilled portion of said aperture providing a space for the reception of a missile, and a plurality of pegs rigidly affixed to said lever adjacent the opposite end thereof and extending through the apertures provided in said top wall, the apertures in said top wall being positioned to cooperate with the lug and pegs to maintain the lever substantially in its normal longitudinal alignment in said housing, said pegs being adapted to be hit selectively one at a time for predetermining the leverage of said lever and the striking force of said lug at the missile.

2,535,226
WATER INLET AND VACUUM RELEASE FOR COLLAPSIBLE BAG TYPE WASHERS AND EXTRACTORS
Wallace F. Oliver, South Bend, Ind., assignor to Bendix Home Appliances, Inc., South Bend, Ind., a corporation of Delaware
Application June 15, 1948, Serial No. 33,184
7 Claims. (Cl. 68—21)

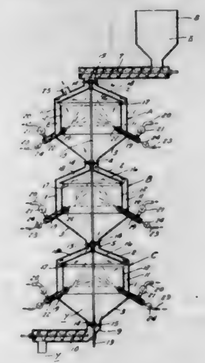
1. In a vacuum breaking and water inlet system for a washing machine having a liquid container with an opening to receive water, a water inlet tube positioned to direct water into said opening, a primary closure member for said opening, a lifting unit for lifting said primary closure member away from said opening a distance sufficient to leave a clear path for water from said water inlet tube into said opening, a secondary smaller opening in said primary closure member, a secondary closure for said secondary

opening, and connections from said lifting unit to said secondary closure providing opening of said secondary closure on initial lifting movement of said lifting unit whereby vacuum in



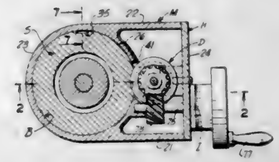
said container will be broken by initial lifting movement and opening of said secondary closure followed by opening of said primary closure leaving said liquid container opening free to receive water from said inlet tube.

2,535,227
APPARATUS FOR GENERATING ACETYLENE GAS
Friedrich Ott, Frankfort-on-the-Main, Germany, assignor of fifty per cent interest to Paul E. Quintus, Arlington, Va.
Application December 16, 1949, Serial No. 133,346
8 Claims. (Cl. 48—38)



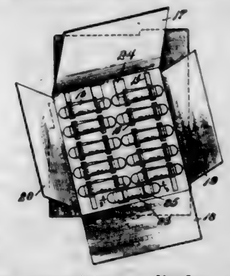
1. In a device of the class described, a casing having inlet and outlet openings in its upper and lower ends respectively, an annular carbide-receiving chamber concentrically disposed within said casing, a raker plate mounted for rotation in said casing below said opening and adapted to receive carbide entering said inlet opening and deposit same in said annular receiving chamber, said raker plate and the inner wall of said annular chamber being vertically spaced to provide a gas passage therebetween, an air injector nozzle in the lower portion of said casing, said nozzle communicating with the lower end of said annular chamber and adapted to pick up carbide therefrom and project same upwardly into said casing toward the axis thereof, a fluid injector nozzle in said casing adapted to project a spray of atomized fluid into said casing in the general direction of the carbide, and means in the upper portion of said casing for removing therefrom gas generated by the union of said carbide and said fluid.

2,535,228
FEED ADJUSTMENT DEVICE
Raymond C. Palmer, Chicago, Ill.
Application August 25, 1949, Serial No. 112,355
8 Claims. (Cl. 74—409)



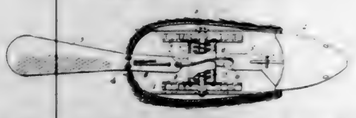
1. In a machine tool embodying a housing, and an elongated spindle reciprocably mounted in said housing for longitudinal adjustment therein, a pair of bearings mounted on said housing in spaced relation to each other, a second pair of bearings mounted in said first mentioned bearings, each of said second bearings being movably mounted on a corresponding one of said first mentioned bearings for movement in a predetermined range toward and away from said spindle, a shaft rotatably mounted in said second pair of bearings, a gear mounted on said shaft for rotation therewith, said gear having tapered teeth operatively engaged with said spindle for moving said spindle longitudinally in said housing during rotation of said gear with said shaft, and means for moving said second bearings in said predetermined range of movement on said first mentioned bearings to thereby adjust the position of said shaft relative to said spindle and thereby adjust the operative engagement of said gear teeth with said spindle.

2,535,229
PACKAGE FOR KNIVES
Antonio Paolantonio, Johnston, R. I., assignor to Colonial Knife Company, Inc., a corporation of Rhode Island
Application March 2, 1949, Serial No. 79,293
1 Claim. (Cl. 206—78)



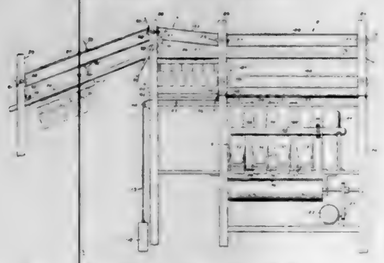
A package comprising a display card, a plurality of article retaining means in spaced relation on the outer surface of said card, a frangible sheet over the outer surface of said card having a plurality of spaced elongated openings registering with said retaining means and through which said retaining means extend, articles engaging said sheet, said retaining means extending through the sheet and about the article to hold said sheet against said outer surface of said card, said frangible sheet having portions extending beyond the edges of said display card, said portions being folded at the edges of said display card to cover the outer surface of said articles.

2,535,230
ANIMATED TOY
Genevieve A. Purdum, Boring, Oreg.
Application August 17, 1948, Serial No. 44,687
1 Claim. (Cl. 46—92)



An animated toy, comprising a hollow body member made of buoyant material, a head swingably mounted at the forward end of the body member, a tail pivotally and hingedly mounted at the opposite end of the body member for movement in a vertical and horizontal plane, supporting wheels attached to a drum rotatably carried by the body member, a coil spring disposed within the drum and having one of its ends attached to the body member and its opposite end to said wheels for imparting rotation thereto, means carried by the drum and frictionally engaged with said head and tail to impart intermittent lateral and vertical movement thereto, said means comprising a wobble plate formed around the drum and bifurcated projections formed on said head and tail and embracing said wobble plate, and vanes carried by said wheels for propelling said body member along the surface of the water.

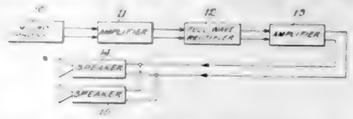
2,535,231
METHOD AND APPARATUS FOR MAKING FROZEN CONFECTIONS
Marlin R. Rasmusson, Sacramento, Calif., assignor to Vitafreze Equipment, Inc., Sacramento, Calif., a corporation of California
Application May 13, 1944, Serial No. 535,502
21 Claims. (Cl. 107—54)



13. In a method of making frozen confections, the steps of suspending the frozen confections in a group in a predetermined pattern, moving said suspended group of confections over a predetermined path, simultaneously treating said moving group of confections, simultaneously dropping the treated group of confections, supporting the dropped confections from the bottom while still arranged in the same pattern in said group, horizontally moving said bottom supported confections, rocking a part of said group of bottom supported confections while they are moving, and depriving said part of said group of confections of bottom support after it has been rocked.

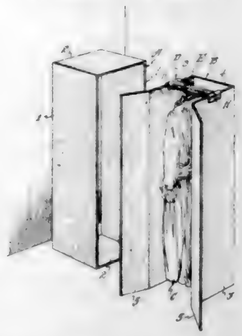
2,535,232
ELECTRICAL APPARATUS
Joseph Razek, Havertown, Pa., assignor to Robert L. Kahn, trustee, Chicago, Ill.
Application April 16, 1947, Serial No. 741,716
5 Claims. (Cl. 179—1)

1. In an audio frequency communication channel including at least one stage of amplification, said channel having an audio frequency input and an audio frequency output with the input and output having some unavoidable coupling therebetween tending to cause oscillation and



full-wave rectifying means forming part of the communication channel through which all audio frequency energy in the channel passes for substantially doubling the audio frequencies.

2,535,233
SHIPPING CASE
Alfred Ross, Bloomfield, N. J., assignor to Allcraft Corrugated Corporation, Harrison, N. J., a corporation of New Jersey
Application March 24, 1948, Serial No. 16,739
4 Claims. (Cl. 206—7)

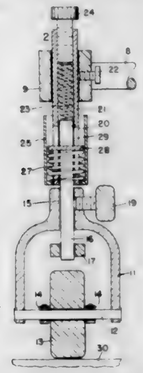


1. A shipping case having at least portions of the edges of two opposed walls exposed, and a bar-like unit having a main bar portion formed at each end to straddle one of said wall edge portions in abutting relation to the corresponding edge and to the inner and outer surfaces of the corresponding wall, said wall edge portions having notches, and said unit comprising two elongate thicknesses of stiff foldable material of substantially greater width than thickness connected by a fold along one longitudinal edge and each connected by a fold at its other edge to another thickness, and the end portions of each of the first-named thicknesses and the corresponding second-named thickness being folded away from the end portions of the other of the first-named and second-named thicknesses, whereby said end portions are inverted channel-shaped, and said two first-named thicknesses are seated in said slots with said inverted channel-shaped end portions in straddling relation to the corresponding wall edge portions.

2,535,234
FABRIC GUIDE FOR SEWING MACHINES
Leo Schwartz, New York, N. Y.
Application March 7, 1946, Serial No. 652,685
9 Claims. (Cl. 112—214)

1. A fabric guide for sewing machines comprising a base, an arm extending therefrom, a wheel mounted on a horizontal axis for rotation, said wheel being in contact with and in line with

the direction of travel of said fabric, a depending support having two parts including a sleeve and a rod operable in said sleeve, one of said parts being held on said arm and the other of which has said wheel axis mounted thereon, a spring in



said sleeve bearing on said rod for yieldingly pressing said wheel against said fabric, a counterspring having its ends in operative contact with said sleeve and rod, respectively, said counterspring being biased against said first spring for balancing the weight of said wheel.

2,535,235
MANUFACTURE OF TETRAALKYLLEAD
Hymin Shapiro, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 29, 1948, Serial No. 30,191
6 Claims. (Cl. 260—437)

1. A process for making tetraalkyllead comprising alkylating lead in an alloy consisting of lead and magnesium in the preseuce of an alkylating catalyst containing an atom which chemically coordinates with magnesium.

2,535,236
PREPARATION OF TETRAALKYLLEAD
Hymin Shapiro, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 29, 1948, Serial No. 30,192
4 Claims. (Cl. 260—437)

1. In the process for making tetraalkyllead by reacting a lower alkyl chloride with an alloy consisting of lead and magnesium in the presence of an alkylating catalyst containing an atom which chemically coordinates with magnesium, the step comprising conducting said reaction in the presence of a lower alkyl iodide.

2,535,237
PREPARATION OF TETRAALKYLLEAD
Hymin Shapiro, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 29, 1948, Serial No. 30,193
6 Claims. (Cl. 260—437)

1. A non-catalytic process for making tetraalkyllead comprising reacting an alloy consisting of lead and magnesium with a lower alkyl halide selected from the group consisting of alkyl iodides and alkyl bromides.

2,535,238
CURTAIN CONSTRUCTION
Harry Sheinman, Laurelton, N. Y.
Application February 12, 1947, Serial No. 728,057
2 Claims. (Cl. 160—387)

2. A curtain comprising a panel formed of soft fabric, reinforcements formed of sheets of stiff fabric secured against the rear surface of the upper end portion of said panel and spaced from each other transversely of the panel, said panel being folded rearwardly and downwardly along lower ends of the reinforcements and secured along the lower edge of the folded portion and thereby provide the curtain with front and rear portions between which the reinforcements are located, portions of the panel between the reinforcements retaining their original softness and adapted to be crimped transversely together with corresponding portions of the downwardly folded portion and form a plurality of longitudinally extending pleats, the curtain being provided with means forming a rod-receiving pocket extending continuously transversely of the curtain parallel to the lower edge of the said folded portion and open at its opposite ends.

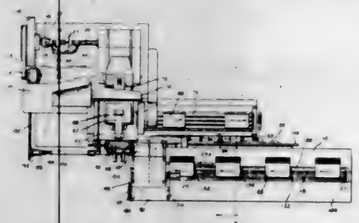
2,535,239
CASTOR OIL-ORGANO SILICON REACTION PRODUCTS AND METHOD FOR THE PRODUCTION THEREOF
Frank J. Sowa, Cranford, N. J.
No Drawing. Application January 10, 1947, Serial No. 721,477
10 Claims. (Cl. 260—398)

1. A reaction product of castor oil and an organosilicon compound of the class R_ySiX_z, in which R is an alkyl radical, X is a radical selected from the group consisting of halides and alkoxy radicals, y is an integer from one to two, and z is an integer from two to three, the fourth silicon valence, if not occupied by R or X, being occupied by hydrogen.

2,535,240
FEEDING MECHANISM
William R. Spiller and Edwin W. Bradmiller, Dayton, Ohio, assignors to Harris-Seybold Company, a corporation of Delaware
Application January 20, 1945, Serial No. 573,748
28 Claims. (Cl. 164—48)

1. A feeding device of the character described for the feeding of groups of sheets of paper material to a trimmer which comprises a base, a trough for receiving a group of said sheets, feeding fingers movable through said trough to feed said groups of sheets, adjustable means for supporting said trough and said feeding fingers in predetermined relation with respect to said base to vary the spacing thereof relative to an operating position of said trimmer to accommodate

sheets of different size, and drive means carried by said device and movable with said trough for



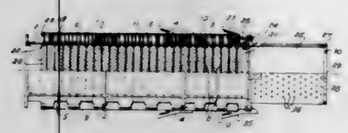
feeding said sheets toward and into said predetermined operative position of said trimmer.

2,535,241

METHOD AND APPARATUS FOR PRODUCING TILES

Daniel Wallace Stewart, Jr., Renfrew, John Mitchell, Toronto, and Cecil V. Matthews, Calabogie, Ontario, Canada, assignors to Calabogie Floors Limited, a corporation of Canada

Application February 20, 1950, Serial No. 145,152
9 Claims. (Cl. 25—42)



4. Apparatus for producing tiles comprising an open-ended die loader having a major section and a minor section, means detachably securing said sections together, a plurality of spacer plates arranged to separate said loader into a plurality of substantially equal compartments, means for releasably holding said plates in equally spaced relation within the loader, an open-ended die, and means for detachably securing said die to said minor section.

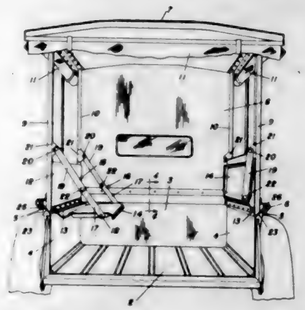
2,535,242

AUXILIARY TOP WITH FOLDING SEATS

Clarence C. Stuart, Dearborn, Mich., assignor to Traffic Transport Engineering, Inc., Dearborn, Mich., a corporation of Michigan

Application January 10, 1948, Serial No. 1,522
4 Claims. (Cl. 296—63)

1. An auxiliary top adapted to be removably mounted upon the box of a pick-up delivery truck, said box being of the type having upwardly and outwardly inclined flanges along the upper edges of the side walls thereof, comprising a pair of front pillars, a pair of rear pillars, a panel extending between and connecting said front pillars and forming a front wall for said top, a panel extending between and connecting the front and back pillars at each side of the top and forming side walls for the top, a pair of folding seats hinged to the side walls of the top adjacent the lower edges and on the inner side thereof, clamp members shaped to engage around the outer free edge of said upwardly and outwardly inclined flanges for clamping the top to the truck box, and locking means on said pillars for detachably engaging said clamps, said locking means being positioned on said pillars such that when the clamps are engaged with said flanges and said locking means, the lower edges of the side walls



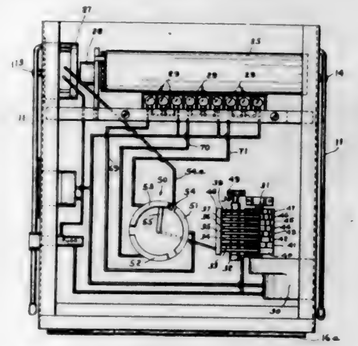
of the top overlie the upper edges of the side walls of the box.

2,535,243

TIMED READING DEVICE

Stanford E. Taylor, Levittown, N. Y.

Application November 14, 1949, Serial No. 127,178
5 Claims. (Cl. 35—35)



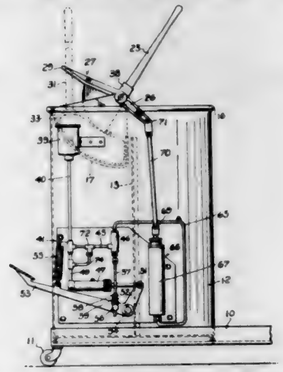
1. A device of the character described, a casing, a viewing aperture in the front wall of said casing adapted to allow the viewing of only one line of reading material therethrough at a time, obscuring means overlying said viewing aperture and adapted to normally obscure vision therethrough, said obscuring means comprising a plurality of superimposed light polarizing members with their axes so related as to normally prevent viewing therethrough except when illuminated from behind, a plurality of light sources within said casing and aligned with said aperture and adapted to progressively illuminate sections of said aperture and allow vision through said obscuring means, a roll within said casing and adapted to support a sheet of material within said casing with a line of said material aligned with said aperture and between said light sources and said obscuring means, automatic means for periodically rotating said roll to align a new line of material on said sheet with said aperture, and automatic means for illuminating said light sources progressively to allow viewing of that portion of material on said sheet aligned with said aperture and illuminated portion of said light source.

2,535,244

HYDRAULICALLY-ACTUATED APPARATUS FOR EXPRESSING LIQUIDS FROM FLOOR MOPS

William G. Van Voorhis and Albert J. Heider, Columbus, Ohio

Application June 9, 1947, Serial No. 753,406
5 Claims. (Cl. 15—261)



1. In a press for expelling soil-laden water from the yarn body of a floor mop, a wheeled base, a liquid-receiving receptacle mounted on said base, a press arranged within and adjacent to the top of said receptacle for the reception of the yarn body of a floor mop, said press including a pivotally movable pressing head, a fluid pump supported externally of said receptacle, foot-actuated means for operating said pump, a hydraulic ram including a sliding plunger, means for transferring fluid under pressure from said pump to said ram, and motion transmitting means uniting said plunger with the movable head of said press for imparting pivotal movement thereto in response to the introduction of pressure fluid to said ram.

2,535,245

PROCESS FOR PREPARING ACRYLAMIDE

Cyrus A. Weisgerber, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 11, 1948, Serial No. 64,897
5 Claims. (Cl. 260—561)

1. A process for preparing a compound selected from the group consisting of acrylamide and methacrylamide comprising treating the corresponding nitrile with hydrogen chloride in an amount of at least two molecular parts hydrogen chloride for each molecular part of the nitrile in the presence of between 1.0 and 2.0 molecular parts water for each molecular part nitrile and treating the resulting reaction mixture at a temperature under 35° C. with strong aqueous caustic solution.

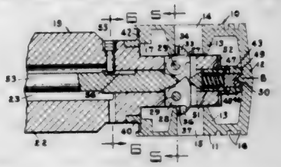
2,535,246

CHUCK ASSEMBLY

Lewis W. Welch, Detroit, and Alfred F. Millington, Northville, Mich., assignors to Novi Equipment Company, Novi, Mich., a corporation of Michigan

Application February 10, 1947, Serial No. 727,570
18 Claims. (Cl. 279—2)

15. A chuck assembly for pistons of the type having a head, a generally cylindrical skirt, pin receiving bores in the skirt and a centering projection on the underside of said head, comprising: a body having a seat on which the piston is supported, a reduced pilot portion extending beyond said seat, a pair of dogs pivoted to said pilot portion and movable into and out of the piston bores and having their pivot axes located such that the engagement between said dogs with the piston



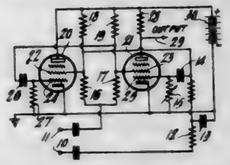
bores applies pressure toward said seat, a pilot plug at the end of said pilot portion engageable with the centering projection, a spring urging said plug outwardly, and mechanism effective to swing said dogs to piston engaging position and simultaneously to increase the force of the spring acting on said plug.

2,535,247

SYNCHRONIZING CIRCUIT

Eric Lawrence Casling White, Iver, and Edward Arthur Newman, Ealing, London, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application June 9, 1947, Serial No. 753,510
In Great Britain April 20, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 20, 1966
4 Claims. (Cl. 178—69.5)



1. In television apparatus, a circuit for generating frame keying impulses which comprises a pair of valves, means interconnecting said valves for making one valve non-conducting when the other valve becomes conducting, a source of line synchronizing impulses, a source of frame synchronizing impulses, means for applying said line synchronizing impulses simultaneously to both of said valves, means for applying said frame synchronizing impulses to one of said valves to condition it to be made non-conducting by one of said line synchronizing impulses, the other valve being made conducting thereby, and means for causing a subsequent line impulse to reverse the conducting and non-conducting conditions of the respective valves.

2,535,248

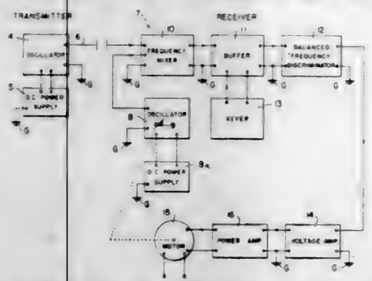
FREQUENCY RESPONSIVE MEASURING AND CONTROLLING APPARATUS

Rudolf F. Wild, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application July 29, 1944, Serial No. 547,253
14 Claims. (Cl. 318—28)

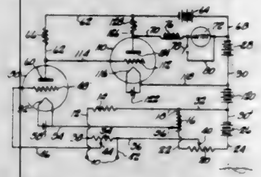
2. In combination, first and second means to generate separate oscillations of relatively high frequency, frequency mixing means to heterodyne

said oscillations to derive a resultant oscillation of a frequency equal to the difference of the frequencies of said separate oscillations, voltage producing frequency discriminating means responsive to the frequency of said resultant oscillation to produce a voltage of one polarity or the other depending upon the direction of departure of



the frequency of said resultant oscillation from a predetermined value, and means to effect modification of the amplitude of said resultant oscillation before application thereof to said frequency discriminating means during predetermined time intervals of a relatively low frequency to cause said frequency discriminating means to produce a voltage undulating at said low frequency.

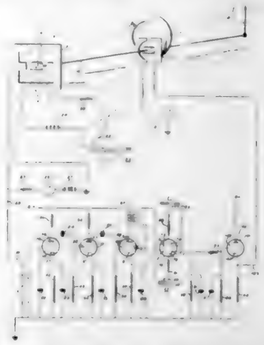
2,535,249
ELECTRIC PSYCHOMETER
Paul L. Wilhelm, Michigan Township, and Frank Donald Burns, Michigan City, Ind.
Application February 26, 1948, Serial No. 11,264
9 Claims. (Cl. 128—2.1)



1. An electric psychometer comprising an electric circuit, a Wheatstone bridge connected in said circuit and including input and output leads and a plurality of resistors forming legs of said bridge, electrode means adapted for engagement with the skin of a person and so connected with said bridge that the resistance of the skin forms one leg of said bridge, an amplifier in said circuit and connected with the output leads of said bridge, and a meter in said circuit for measuring the output of said amplifier, a normally open shunt connected in said circuit around said meter, and a relay responsive to the flow of current to said meter and adapted to close said shunt when current flow reaches a predetermined value.

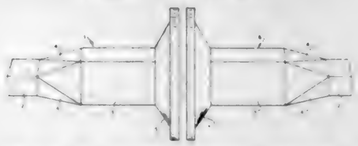
2,535,250
COMPUTING SYSTEM
James S. Allen, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 18, 1944, Serial No. 531,615
5 Claims. (Cl. 235—61)

1. A system of the character described comprising a dynamometer type meter and a d'Arsonval type meter, means for rigidly coupling the movable coils of said meters together, means for passing direct currents through the coils of said dynamometer meter, said means comprising separate circuits for each coil and separate means for adjusting the current in each coil to a predetermined value, said dynamometer coils undergoing rotation one with respect to the other due to said direct currents, means for impressing an alternating current on one of said dynamometer coils, means for amplifying and detecting only



the alternating potentials induced in the other dynamometer coil, means for feeding a current through the d'Arsonval meter directly proportional to said detected current, for generating a torque in said d'Arsonval meter equal and opposed in direction to the force causing said dynamometer movable coil to rotate, and means for applying through said rigid coupling said mechanical d'Arsonval meter torque to said dynamometer coil.

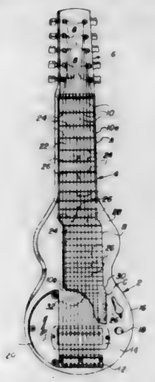
2,535,251
ROTATABLE WAVE GUIDE JOINT
Andrew Alford, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War
Application April 9, 1946, Serial No. 660,602
1 Claim. (Cl. 178—44)



A device for coupling linearly-polarized electromagnetic waves from a fixed to a rotatable rectangular wave guide over a broad operating frequency band comprising first and second rectangular wave guides for translating linearly-polarized electromagnetic waves, one of said wave guides being fixed and the other being rotatable, first and second rectangular wave guide sections having their surfaces displaced 45° from the surfaces of said first and second wave guides, respectively, first and second wave guide transformer sections coupled between said first and second wave guides and said first and second wave guide sections, respectively, and shaped to transform linearly-polarized electromagnetic waves into a pair of waves linearly-polarized perpendicularly to one another, said wave guide sections having cross-sectional dimensions large enough to propagate said pair of waves polarized perpendicular to one another and having a length to provide a 90° phase shift between said pair of

waves, and first and second tapered horns coupled respectively to said first and second wave guide sections and tapered to a substantially square open end which is substantially impedance-matched to space over a broad operating frequency band, said horns being mounted with said open ends adjacent one another.

2,535,252
MUSICAL INSTRUMENT
Elbern H. Alkire, Easton, Pa.
Application April 12, 1949, Serial No. 86,925
9 Claims. (Cl. 84—267)

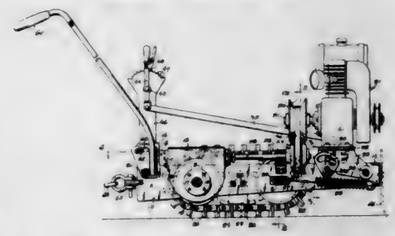


1. In a stringed instrument, a fingerboard having a musical length of more than one octave, said fingerboard comprising a plurality of successive lengthwise portions, the length of said first portion corresponding to the first octave, the next portion being laterally offset from the first.

2,535,253
SIDEWALK AND FLOOR SCRAPER
William M. Anderson, Virginia, Minn.
Application February 17, 1948, Serial No. 8,933
1 Claim. (Cl. 30—128)

An impact cutting tool of the character described, comprising a tubular handle, a shank telescopically arranged with said handle, the upper end of the shank being circular in cross-section and the lower end of the shank being square in cross-section, upper and lower guide bushings in said handle for slidably mounting the shank in said handle, the upper bushing conforming to the shape of the circular portion of the shank, and the lower body conforming to the square-shaped portion of the shank, a collar on said shank intermediate said square-shaped portion and said circular portion, a spring on the circular portion of said shank engaging the upper bushing at its upper end and the collar on the shank at its lower end, a flange on the lower bushing forming an impact imparting member, a blade on the lower end of the shank, said blade having an impact receiving seat formed thereon to be engaged by said impact imparting member, whereby movement of the handle on said shank will cause the blade to be forced forwardly of the handle in proportion to the impact imparted to said handle, and a cleaning block is joined to said handle and is adapted for sliding engagement with the blade on the end of the shank during the movement of the handle.

2,535,254
GARDEN TRACTOR
James F. Attwell, Seattle, Wash., assignor to Windolph Tractor Company, Portland, Oreg., a copartnership
Application July 21, 1947, Serial No. 762,433
4 Claims. (Cl. 180—9.1)

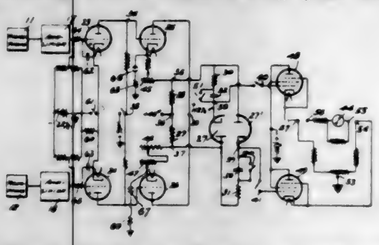


1. A garden tractor comprising, in combination: a vehicle frame presenting a plow-tail handle at its rear end, a gear box rigidly supported by the frame to lie at one end thereof, an engine supported by the frame to lie at the other end of the frame, driving connection from said engine to the gears of the gear box, a transverse live axle driven from the gears of the gear box and extending by its ends laterally beyond the frame, driver sprocket wheels upon said exposed axle ends, a transverse dead axle supported by the frame to lie intermediate the gear box and the engine and likewise extending by its ends laterally beyond the frame, idler sprocket wheels journaled on the exposed ends of said dead axle, and an endless crawler chain for each side of the tractor working about said driver and idler sprocket wheels.

2,535,255
ELECTRICAL SYSTEM FOR LOCATING A SOUND SOURCE
Thomas G. Barnes, Durham, N. C., and Michael J. Burger, Murray Hill, N. J., assignors to the United States of America as represented by the Secretary of War
Application May 23, 1945, Serial No. 595,352
7 Claims. (Cl. 177—352.6)

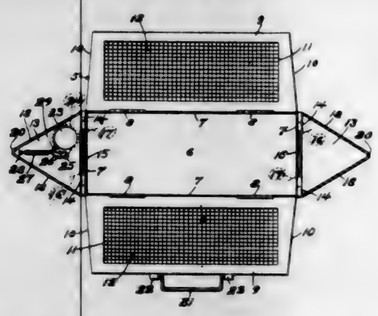
1. A device for measuring the time interval between the arrival of a pulse of sound wave energy at two separated sound sensitive means from a distant sound source, comprising means for converting said pulse of sound wave energy into an equivalent pulse of electrical energy at each sound sensitive means, means for initiating a flow of electrical energy at instant of first pulse, means

for stopping said flow at instant for second pulse so that the duration of flow is equal to the difference in the sound arrival times at the said sound sensitive means, means to produce a voltage whose magnitude is proportional to said difference in sound arrival times, and means for indicating the magnitude of said voltage, said initiating means including a gas discharge tube responsive to said first pulse having a grid biased beyond cut-off and an anode resistor connecting the anode to a source of positive potential, said stopping means including a similar biased gas tube responsive to said second pulse; said voltage producing means including a pair of normally conducting vacuum tubes having grids direct



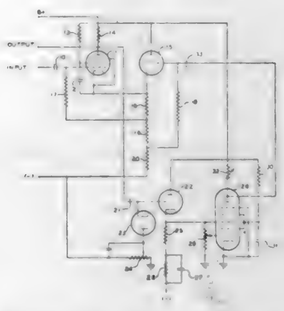
coupled to the anodes of said gas tubes respectively, cathode resistors connected to a point of predetermined positive potential less than aforesaid anode potential source, and anode connected to a common point of potential higher than said predetermined potential; a pair of timing circuits bridged from cathode to cathode of said vacuum tubes to receive the output thereof, each circuit including in series a resistor, a condenser and a diode having its cathode connected to the condenser, one circuit having the sequence of elements arranged in reverse order, whereby a charge proportional to the difference of arrival times is accumulated on one of said condensers; said indicating means including a vacuum tube voltmeter having input terminals connected to the cathodes of said diodes respectively.

2,535,256
BAIT BOX
Earl L. Benson, Horace G. Young, and Roy B. Hunt, Sioux Falls, S. Dak.; said Young assignor to said Hunt and said Benson
Application April 5, 1946, Serial No. 659,908
1 Claim. (Cl. 220—7)



A collapsible bait box of the character described, including a base member having side and end edges, a pair of inwardly folding side walls each having side and end edges, said end edges being inclined inwardly toward the free edge thereof and each being pivotally secured along one side edge to a side edge of the base member, a pair of inwardly folding flanged end walls of substantially triangular shape each being pivotally secured to an end edge of the base member, and spring means for normally biasing each of the end walls into overlapping retentive engagement with each of the side walls when the latter are moved to set-up position with their free side edges in contacting relation with each other, and for causing the end walls to overlie the side walls when the latter are folded inwardly over the base member and to retain the same in said last named position, the spring means constituting the sole means for maintaining the side and end walls in set-up or collapsed position with respect to said base member.

2,535,257
ELECTRICAL CIRCUIT
France B. Berger, Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application May 3, 1945, Serial No. 591,747
2 Claims. (Cl. 250—27)



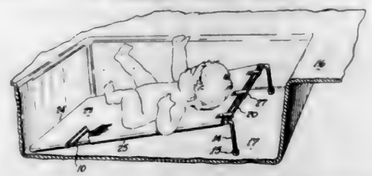
1. An electronic circuit comprising differential amplifier means, cathode follower means containing grid bias means, means connecting the output of said differential amplifier means to said cathode follower means, diode means to hold the grid bias of said cathode follower above a predetermined level, multigrid thermionic tube means containing two grids characterized by the fact that they have substantially equal controlling effect upon the space current of said multigrid thermionic tube means, means connecting the output of said cathode follower means to said grids, the output of said multigrid thermionic tube means being connected to said differential amplifier means, and means to hold the output potential of said multigrid thermionic tube means at substantially the same potential as the input of said differential amplifier means, thereby causing the input potential of the cathode follower means to be substantially equal to the square root of the input potential of the differential amplifier means.

2,535,258
EARPIECE WITH INFLATABLE SEALING MEANS
Reginald B. Bland, Newport News, Va.
Application December 5, 1947, Serial No. 790,002
10 Claims. (Cl. 181—23)

1. An ear piece having an ear tip adapted to enter the auditory canal of the ear, and inflatable hollow flexible sealing means fixed surroundingly

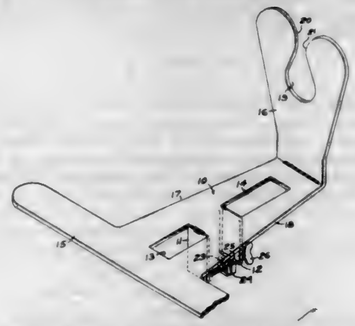
on said ear tip to prevent leakage of air between said ear tip and said auditory canal.

2,535,259
BATHING RACK FOR INFANTS
Verlyn E. Boyington, Portland, Oreg.
Application September 7, 1948, Serial No. 47,987
2 Claims. (Cl. 4—185)



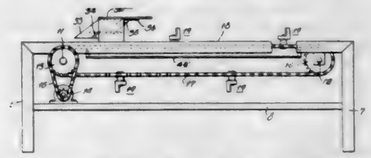
1. A device of the class described, consisting of a U-shaped tubular frame having L-shaped legs extending from the open ends of said frame, said legs as well as the open ends of said frame having holes extending therethrough, a cross brace having reduced ends adapted to extend through the holes in said tubular frame and said legs and a fabric covering in the form of a bag adapted to enclose said frame and to be secured to the cross brace thereof.

2,535,260
PAINTBRUSH HOLDER
Reuben A. Braswell, Decatur, Ga.
Application January 6, 1948, Serial No. 694
1 Claim. (Cl. 220—90)



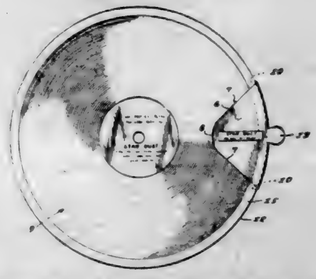
A paint brush holder and scraper comprising an elongated base provided with a transversely positioned bar at one end and having an upwardly extending web at the other end thereof, said web having a socket therein with ears in the upper edges of the socket providing a restricted throat, a pair of plates struck from aligned openings medially of said base and extending from adjacent ends of the openings downwardly at right angles to the base, said plates providing jaws, the jaw nearest the web having an integrally extending flange on its lower end, there being an opening in that jaw having the flange thereon, a nut contacting said flange and having an opening in alignment with the opening in said jaw, and a thumb screw projecting through the aligned opening and extending toward the jaw nearest the bar.

2,535,261
POTATO SEED CUTTING MACHINE
Kenneth G. Brown, Mattituck, N. Y.
Application February 17, 1949, Serial No. 76,981
2 Claims. (Cl. 146—163)



1. A machine of the class described, comprising a rectangular frame, a pair of sprockets spaced apart for substantially the width of the frame and disposed near each end thereof, endless chains trained over each set of sprockets and operating adjacent opposite sides of the frame, a source of power for driving the sprockets, gang carriers arranged transversely and connected to the chains, each carrier consisting of a rigid, integral member including a plurality of contiguous pockets, the pockets being of graduated sizes, the smallest pocket having a single slot projecting outwardly of the carrier and the largest pocket having a pair of intersecting slots, a bank of knives at one end of the frame, the knife in the path of the smallest pocket comprising a single blade projecting inwardly toward the carrier, the knife in the path of the largest pocket having a blade projecting inwardly toward the carrier and a pair of laterally projecting blades, the pockets adapted to support small and large potatoes, and the carrier designed to be advanced against the knives, whereby, in a single operation, the potatoes are cut, according to their size, into two or four pieces.

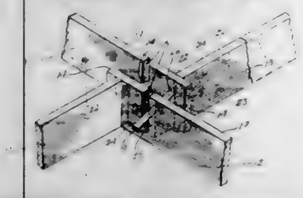
2,535,262
PHONOGRAPH RECORD IDENTIFICATION TAB
Everett L. Brownsey, La Porte, Ind.
Application January 20, 1948, Serial No. 3,255
2 Claims. (Cl. 40—23)



1. A detachable identification tab for a phonograph record having on either side thereof a smooth outer annular surface band with no sound grooves formed therein comprising in combina-

tion, a thin flat relatively stiff tab body arranged in face adjacency with respect to one side of said record and having side edges converging inwardly from the peripheral edge of the record substantially beyond the inner diameter of the surface band on said one side of the record, a thin flat relatively stiff flap arranged on the opposite side of the record in face adjacency therewith and substantially parallel to the plane of said tab body, said flap having an outer curved edge corresponding to the peripheral edge of the record and an inner curved edge corresponding to the inner edge of the surface band adjacent thereto, a U-shaped end interconnecting the outer edges of said tab body and said flap and having a substantially continuous curved shoulder in engagement with the peripheral edge of the record, and a tab handle comprising a portion of said tab body projected outwardly therefrom beyond the peripheral edge of the record, said tab body having markings thereon for identifying said record.

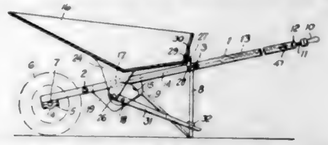
2,535,263
BUILDING JOINT CONNECTOR
Thomas A. Budne, Brooklyn, N. Y.
Application February 3, 1948, Serial No. 6,085
10 Claims. (Cl. 189—36)



4. A building joint connector, comprising four arms connected together with two of said arms disposed in spaced parallel and partially overlapped relation and connected to the other two of said arms disposed in spaced parallel and partially overlapped relation and at right angles to the first two of said arms, each of said first named two of said arms comprising a separate and substantially identical plate and each of said second named two of said arms comprising a separate and substantially identical plate, each of said plates including a free end and top and bottom edges, each top edge being formed with an upwardly-directed notch in inwardly-spaced relation to said free end, each bottom edge being formed with a downwardly-directed notch in inwardly-spaced relation to said free end and in offset relation to said upwardly-directed notch, each of said notches having vertical side walls spaced apart a distance substantially equal to the thickness of one of said plates, and at least one of said plates being formed with downwardly and upwardly-inclined upper and lower edges respectively between said notches and said free end providing upper and lower cam tracks leading to said notches, and said side walls of said notches adjacent said tracks being lower than the side walls remote therefrom.

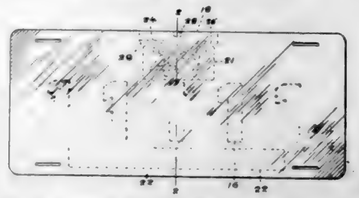
2,535,264
WHEELBARROW WITH WEIGHING MEANS
Carl Ove Bull, Ulvsunda, Sweden, assignor to Fastighetsaktiebolaget Lubo, Boras, Sweden, a corporation of Sweden
Application September 24, 1945, Serial No. 618,125
In Sweden September 27, 1944
8 Claims. (Cl. 265—42)

1. In combination with a wheel-barrow consisting of a frame provided at one end with a single wheel and at the other end with handles and supporting legs having a graduated scale thereon, and a barrow platform above the frame; a weighing device comprising a pair of spring-controlled elements pivotally mounted in said frame and supporting the platform of the barrow,



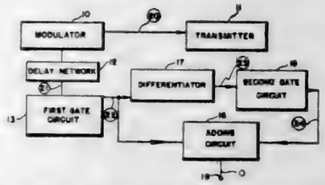
a pointer arm connected to one of the spring-controlled elements and adapted to indicate the weight of the load on the graduated scale, and arresting means adapted to catch said pointer arm so as to rigidly lock said weighing device including said platform in the zero or initial position.

2,535,265
VEHICLE LICENSE PLATE WITH RENEWABLE TAB
Howard E. Caffrey, Tucson, Ariz.
Application February 17, 1948, Serial No. 8,926
5 Claims. (Cl. 40—125)



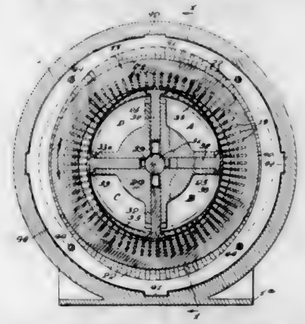
1. In a license plate construction, a housing including a back plate and a transparent front plate arranged in superposed relation with respect to said back plate and secured thereto, there being a recess arranged in each of said plates, said recesses coacting to define a socket, a transparent holder seated in said socket and provided with a slot, a tab having indicia thereon removably positioned in said slot, a pair of sealing beads projecting from said holder, there being an opposed groove arranged in each of said plates for receiving therein said beads.

2,535,266
BLANKING PULSE GENERATING CIRCUIT
Britton Chance, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 3, 1945, Serial No. 620,131
6 Claims. (Cl. 250—27)



1. A radiant energy system, comprising a source for providing a series of input pulses, a means for delaying said input pulses, supplied from said source, a first gate circuit receiving said delayed pulses, said first gate circuit producing a series of first gate pulses whose leading edges coincide with each of said series of input pulses, the duration of each of said gate pulses being less than the period between any two succeeding pulses in said series of input pulses, a differentiating circuit receiving the output of said first gate circuit, said differentiating circuit acting to produce a series of alternating trigger pulses coincident with the leading and trailing edges of said first gate pulses, a second gate circuit receiving the output of said differentiating circuit, said second gate circuit being responsive only to those trigger pulses which coincide with the trailing edges of said first gate pulses, said second gate circuit producing a series of second gate pulses of the same polarity as said first gate pulses, the leading edges of which coincide with the trailing edges of said first gate pulses, and the trailing edges of which occurs immediately prior to the leading edges of said input pulses, and a means fed from said gate circuits to combine said first and second series of gate pulses to produce a series of blanking pulses.

2,535,267
ROTARY VANE PUMP
Cranmore W. Cline, Jacksonville, Fla.
Application April 9, 1945, Serial No. 587,298
15 Claims. (Cl. 103—120)



1. In a rotary pump, the combination with a rotary housing, of a series of radially disposed vanes mounted for radial movement therein, an annular cam ring surrounding said housing and controlling the radial movement of said vanes, the contour of the inner surface of said ring varying continuously from one side face of the ring to the other, and means for shifting said ring axially.

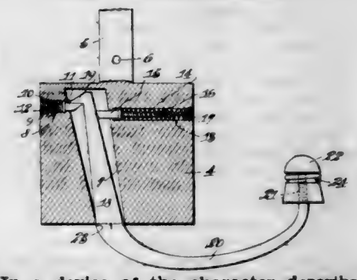
2,535,268
INFRARED GENERATOR
Judson M. Coats, Seattle, Wash., assignor to Merco Industries Inc., Seattle, Wash., a corporation of Washington
Application March 13, 1948, Serial No. 14,757
5 Claims. (Cl. 201—67)

1. An infra-red generator comprising a coil of filament wire jacketed with an insulator coating of cement and encased and sealed within a glass tubular container having an inside diameter approximating the outside diameter of the jacketed coil to establish touching engagement as between the jacketed coil and the inside surface of the tubular container throughout substantially the entire length of the coil.

2,535,269
HEAD SUPPORT FOR TELEPHONES
William Roy Cole, Des Moines, Iowa
Application September 13, 1946, Serial No. 696,693
1 Claim. (Cl. 179—156)

In a head support for telephones, the combination of a frame adapted for positioning on the head of a user, a downwardly extending link provided with a longitudinal slot, a clamping bolt positioned in the upper portion of said slot and adjustably attaching said link to said frame, an L-shaped bracket affording a downwardly extending long arm and a laterally projecting short arm, said long arm being provided with a longitudinally extending slot, a second clamping bolt positioned in said last-mentioned slot and extending through the lower portion of the first slot to adjustably connect said bracket to said link, and a pair of coacting clamp sections secured to opposite surfaces of said short arm and adapted to receive a telephone therebetween.

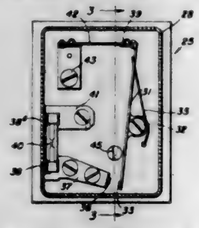
2,535,270
DEVICE TO PREVENT BREAKAGE OF POLES AND WIRES
Vernon Carroll Davis, Hoisbird, S. Dak.
Substituted for abandoned application Serial No. 543,475, June 10, 1931. This application March 5, 1948, Serial No. 13,118
4 Claims. (Cl. 174—158)



2. In a device of the character described, a fixed block to be mounted on the cross arm of a pole, an insulator carrying lever arm, and means detachably mounting said arm in said block for release upon overloading the insulator carrying part of the arm, said block having a socket into which one end of said arm projects, the other end of the arm carrying the insulator, means engaging that end of said arm which is within the socket to hold the same therein, said arm functioning as a lever to rock when the insulator

carrying end thereof is mechanically overloaded to release itself from the holding means, and adjustable resistance means engaging said arm and tending to prevent its release below a predetermined load.

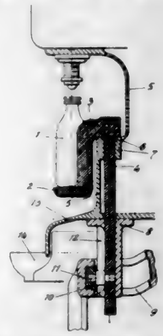
2,535,271
SAFETY SWITCH FOR THE LIGHT SYSTEMS OF VEHICLES
Ralph E. Denslow, Salem, Oreg.
Application February 5, 1948, Serial No. 6,518
2 Claims. (Cl. 200—117)



1. A safety switch for the lights of automotive vehicles adapted to switch connections between a source of current and a main light circuit on one hand and a separate additional supply circuit for auxiliary lights arranged in parallel to a normal supply circuit provided with a switch and fuse on the other hand, comprising a closed casing, a pivot pin therein, a rigid switch blade within said casing with a bent end and with a contact knob at the other end, mounted on and swingable around said pivot pin, means for connecting said blade with the source of current, a fixed contact strip with a fixed contact knob in said casing, the said knob facing the contact knob on the switch blade, a coiled spring around said pivot pin, urging the end of the switch blade carrying the contact knob towards the fixed contact, a terminal post in said casing adapted to be connected with the main light circuit, a straight strip of fusible material fixedly attached to said terminal post and to the bent end of the switch blade, the length of said strip being selected, so as to hold the other end of the switch blade at a distance from the fixed contact knob against the spring tension, said fusible strip being part of the connection leading from the source of current connected to the switch blade to the main headlights, a fuse contact holder for a removable fuse on said contact strip, a binding post provided with a second fuse contact holder near said contact strip within the casing, said binding post being connectable with the auxiliary light circuit and a removable fuse for the auxiliary light circuit held within said fuse contact holders for independent protection of the auxiliary circuit switched in when the strip of the fusible material in the main light circuit has been melted and has released the switch blade.

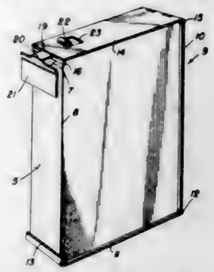
2,535,272
SUPPORTING DEVICE FOR BOTTLES AND OTHER RECEPTACLES ON FILLING, STOPPERING, CAPSULING, AND THE LIKE MACHINES
René Détrez, Nogent, France
Application February 12, 1945, Serial No. 577,546
In Switzerland January 22, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 22, 1964
6 Claims. (Cl. 226—129)

1. In a machine of the character described, an inverted U-shaped reciprocating member having opposed branches, a bottle supporting platform carried by one of said branches, and



a bearing guide slidably engaged by the other branch and displaced laterally from the platform and the bottle supported thereon.

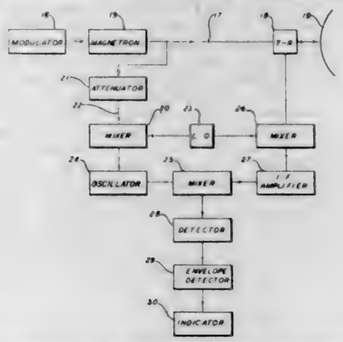
2,535,273
VALVED PROTECTOR FOR CARTONS
Rudolph A. Deutschman, Hawarden, Iowa
Application May 14, 1948, Serial No. 27,051
4 Claims. (Cl. 222—183)



4. An attachment for a soap box of the class shown and described comprising an adaptor frame embodying a connecting and assembling strap adapted to be fitted against one vertical edge portion of said box, a horizontal bottom strap adapted to fit beneath and cover the bottom edge portion of said box having one end hinged to the lower end of said assembling strap, the opposite free end of said bottom strap terminating in a box engaging and retaining clip, a top strap in spaced parallelism above said bottom strap and hinged at one end to the upper end of said assembling strap, the opposite free end of said top strap being flanged and formed with a bend underlying said free end in spaced parallelism and providing a box gripping clasp, and valve means carried by said flanged end.

2,535,274
MOVING TARGET INDICATOR
Robert H. Dicke, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 24, 1945, Serial No. 590,052
12 Claims. (Cl. 343—9)

4. In a coherent pulse echo radio object-location system, of the character described, means for transmitting a series of short duration, high carrier-frequency pulses of radiant energy, means for receiving object-returned echo-pulses, means for generating reference oscillations synchronized with said transmitted pulses, means for combining said echo-pulses and said reference oscillations to produce a series of video echo-pulses having a modulation envelope, the frequency of said modulation envelope being determined by



the velocity of the object, a cathode ray tube having a screen comprising a range and azimuth zone and a velocity indication zone, means for indicating range and azimuth of moving and fixed objects on said range and azimuth zone, and means for indicating velocity of a moving object on said velocity indication zone.

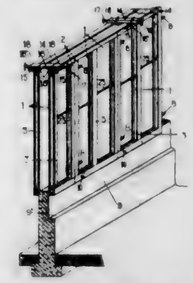
2,535,275
MANHOLE LID CLAMP
Frank Thomas Dixon, Altoona, Pa.
Application January 28, 1946, Serial No. 643,891
2 Claims. (Cl. 94—35)

1. In a structure of the character disclosed, a circular manhole cover provided with a pair of rectangular apertures in a diameter thereof and in spaced relation to the center thereof, a pair of alined elongated latches slidably supported by the cover on the underside thereof in said diameter and provided with locking tongues on their opposite ends, the adjacent ends of said latches being in spaced relation and positioned between said apertures, a spring supported by said cover and disposed between said adjacent ends for forcing said latches apart to locking position, and a rectangular aperture in each latch of the same dimensions as the apertures in the cover, the latter apertures being normally displaced in said diameter relative to the first apertures but lapping same whereby providing through openings for the insertion of the wedged tools for driving the latches toward each other against the action of said spring.

2,535,276
RHODANIC ACID AND OXARHODANIC ACID DERIVATIVES
Harry Derek Edwards and John David Kendall, Ilford, England, assignors to Ilford Limited, Ilford, Essex, England, a British company
No Drawing. Application January 2, 1948, Serial No. 379. In Great Britain January 9, 1947
13 Claims. (Cl. 260—302)

1. Process for the production of dyestuff intermediates which comprises reacting with carbon disulphide under substantially anhydrous conditions an alkali-metal salt of a compound selected from the class consisting of the N-hydrocarbon-substituted derivatives of rhodanic acid and of oxarhodanic acid and reacting the resulting product with a compound selected from the class consisting of the 1 to 18 carbon atom alkyl and benzyl sulfates, chlorides, bromides, iodides and p-toluene sulfonates.

2,535,277
SHUTTER FOR USE IN BUILDING CONSTRUCTIONS
Bernard Augustine Fama, Te Awamutu, New Zealand
Application August 17, 1945, Serial No. 611,067
In New Zealand August 25, 1944
2 Claims. (Cl. 25—131)

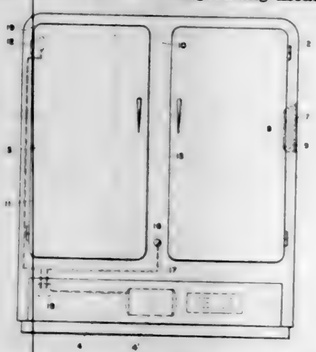


1. A shutter arrangement for use in molding concrete comprising opposed shutters arranged in rows above a wall of preformed concrete, means in the form of tie bolts for maintaining the shutters spaced apart at their lower edges and resting on the wall to support the shutters in clamping relation therewith, an elongated and rigid horizontal shutter aligning bar extending along the length of each row and supported thereby and detachably engaged with the outer sides of the shutters, relatively adjustable ties and spreaders extending across the upper edges of the rows and separately clamping the aligning bars and also engageable between the inner sides of the rows, and means for securing the abutting edges of shutters together comprising bolts having threaded shanks adapted to screw into one of the abutting edges, the other of the abutting edges having keyhole shaped slots enlarged at one end, elongated pointed heads on said bolts adapted to be passed through the enlarged ends of the slots and operable when the shutters are relatively displaced to engage behind the small ends of the slots to secure the shutters together, said heads provided with means for enabling said bolts to be screwed inwardly or outwardly of the shutter edge in which they are held, for the purpose of tightening or loosening the joint between the shutters, and the larger diameter portion of each keyhole shaped slot increasing in diameter inwardly of the shutter.

2,535,278
REFRIGERATOR CABINET
James Loren Fletcher, Fayetteville, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application June 21, 1946, Serial No. 678,324
3 Claims. (Cl. 62—89)

1. In a refrigerator including a storage compartment, the combination of a metal stile having an exposed surface, a plurality of doors ad-

jacent said stile closing openings in the storage compartment, exposed edges of said doors and the exposed surface of said stile forming a vertically extending channel, refrigerating means for refrigerating the storage compartment to a desired temperature, a warning device placed on the lower portion of said stile for signalling to an observer failure of said refrigerating means, said



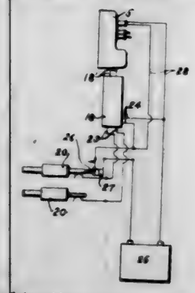
device serving to generate heat during the operation of the refrigerating means to warm the exposed surface of said stile by conduction and to warm ambient air in the channel, at least some portion of the warmed air passing upward along the channel, thereby warming the exposed surface of the stile to an extent sufficient to prevent substantial collection of moisture thereon.

2,535,279

ELECTRICAL APPARATUS FOR SERVICING AUTOMOBILES

Irvin W. Folk, Belleville, N. J., assignor to Atlas Supply Company, Newark, N. J., a corporation of Delaware

Application February 4, 1946, Serial No. 645,439
8 Claims. (Cl. 175—183)



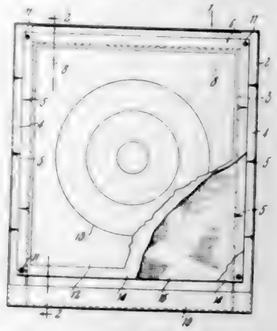
1. The combination of an instrument panel for an electrical testing apparatus of the kind described, a hand operable switching means made as a plug-in switch and carried on said panel for cable connection, an electrical testing circuit connected to said plug-in switch, a meter having a meter movement for the measurement of the characteristics of an electric current, said meter adapted to be put into and taken out of the electrical testing circuit by the plug-in switch, the movement of said meter to be energized through said testing circuit, a meter casing mounted on and positioned behind said panel, one wall of said casing being made of light passing material, said light passing portion of the casing wall forming the meter face and visible on the front of the instrument panel through a window provided in the panel, a testing scale band carried on the lower portion of said meter face, a reading hand connected to the meter movement and caused to move when said movement is energized through the testing circuit, a lamp and lamp shading receptacle mounted in the meter casing immediately behind the portion of the meter face bearing said testing scale band to illuminate only that portion, a lighting circuit for said lamp, a manually operable switch for said lighting circuit, said switch being interlocked with the said plug-in switch carried on the instrument panel for simultaneous opening and closing of both switches to cause illumination of the meter scale band only when the meter is in said electrical testing circuit, and together with the foregoing structure, another testing scale band and lamp and lamp shading receptacle for such band and these mounted above the first mentioned ones in the same way on the meter face to form with them box-like compartments, each with its scale for the meter casing, a separate lamp circuit and manually operable switch for the lamp of the second receptacle, another plug-in switch carried on the instrument panel and another electrical testing circuit connected to such plug-in switch, said second testing circuit leading to the one meter to put the meter in said second testing circuit by its plug-in switch, the plug-in switch of the second named electrical testing circuit being interlocked with the manually operable switch for the added lamp, all constructed as stated to provide individually illuminated scale bands each lighted only when the corresponding selected testing circuit is connected to the one meter through the plug-in connection on the instrument panel and the meter is thus made ready to show the results of individual tests.

2,535,280

SELF-SEALING RIFLE TARGET

Robert D. Gartrell, Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application November 8, 1946, Serial No. 708,732
2 Claims. (Cl. 273—102.4)



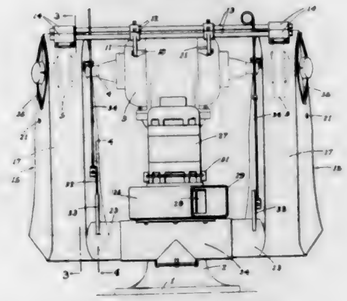
1. A target including a flexible, resilient self-sealing rubber diaphragm which itself seals an opening formed by passage of a bullet therethrough, said diaphragm being of such thickness that it is deflectable under impact of a bullet to absorb the kinetic energy thereof so that a bullet passing therethrough becomes substantially spent, said diaphragm having a fabric backing to limit the deflection thereof, and an impact plate spaced from said diaphragm a distance greater than the normal deflection of the diaphragm upon being struck by a bullet, said resilient diaphragm preventing return passage therethrough of spent bullets which have been deflected from said impact plate.

2,535,281

DUST COLLECTOR

Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California

Application June 22, 1948, Serial No. 34,426
1 Claim. (Cl. 51—273)



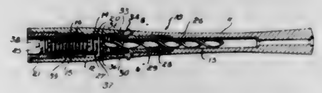
In combination: a vertically disposed pedestal, a motor supported on the upper end of the pedestal, a horizontally disposed driven spindle projecting from each end of the motor, a rotatable abrading element fixed on the end of each spindle, means on the pedestal for supporting and moving an object into and out of engagement with the abrading elements, a pair of longitudinally spaced apart bosses on the motor, a pair of collars on each boss, such collars being spaced apart circumferentially with respect to the spindle axes and the axis of the collars being parallel with the axes of the spindles, a rod fixed in each collar and projecting outwardly in overhanging relation to the abrading elements, an attachment bracket supported at the outer end of each of the rods and a hood supported on each attachment bracket, each hood partially enclosing one of the abrading elements with the exposed portions of the abrading elements facing the object supporting and moving means.

2,535,282

SMOKE FILTERING DEVICE

Joseph Goch, Chicago, Ill.

Application May 24, 1946, Serial No. 672,040
2 Claims. (Cl. 131—188)



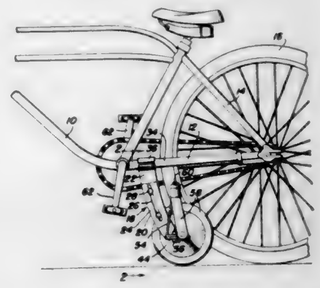
2. In a smoke filtering device, a filtering element comprising in combination, a plurality of spaced, axially aligned discs each provided with a central aperture, an eccentrically disposed longitudinal means securing said discs one to another, a cap at each end of said element, and a centrally disposed neck securing each of said caps to the adjacent of said discs, said apertures constituting a smoke passage, said caps and said necks being provided with further smoke passages, said further smoke passages in said necks merging into and being in alignment with the apertures of the adjacent discs, and one of said caps having a ball shaped terminal adapted to be inserted into the end of a cigar or cigarette held by said device.

2,535,283

BICYCLE STABILIZING ATTACHMENT

Max M. Groom, Perry, Okla.

Application October 4, 1948, Serial No. 52,646
1 Claim. (Cl. 280—293)



A stabilizing attachment for bicycles, comprising an inverted U-shaped bracket including a bight portion and a pair of downwardly extending side members, said bight portion being provided with a pair of spaced grooves to receive respective side pieces of a bicycle rear wheel supporting fork, a clamping screw extending upwardly through said bight portion, a grooved fork clamping plate provided on said screw, a complemental bracket having a U-shaped configuration and including a bight portion and a pair of upwardly extending side members, said last mentioned side members overlapping the respective side members of the first mentioned bracket and being provided with longitudinally extending slots, locking screws provided in the side members of the first bracket and slidably adjustable in said slots whereby the complemental bracket may be adjusted vertically relative to the first bracket, a leaf spring secured intermediate the ends thereof to the bight portion of the complemental bracket and projecting laterally to both sides thereof, a pair of upwardly and outwardly extending wheel supports provided at the opposite ends of said spring, and a pair of swivel casters attached to the respective wheel supports.

2,535,284

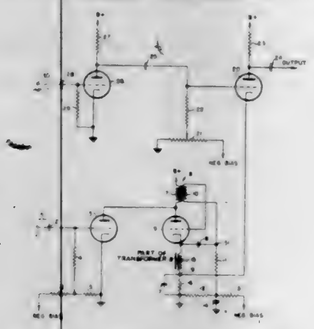
COLD-DRAWING STEEL WIRE

Arch W. Harris, Euclid, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

No Drawing. Application September 30, 1947, Serial No. 777,119
5 Claims. (Cl. 148—6.11)

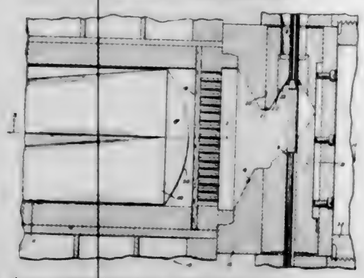
4. A method of cold-drawing steel wire comprising annealing substantially scale-free wire in a reducing atmosphere at a temperature between 1450° and 1900° F. and then without exposure to oxidizing influences immediately quenching the annealed wire in a lead bath containing lead oxide maintained at a temperature between 800° and 1100° F. to produce a film of ferrous oxide thereon and cold drawing the wire with said oxide film thereon.

2,535,285
ELECTRON TUBE CIRCUIT
Roy G. Heaton, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application September 14, 1945, Serial No. 616,381
8 Claims. (Cl. 250—36)



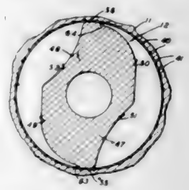
1. A blocking oscillator comprising a vacuum tube having an anode, a cathode and at least one grid, a transformer, a first winding of said transformer for electrically connecting the anode of said tube to a source of positive potential, a second winding of said transformer for electrically connecting a grid of said tube to a source of negative potential, a third winding of said transformer electrically connected to the cathode of said tube, a capacitor electrically connecting the cathode of said tube to said second winding, and resistor means electrically connecting said third winding to a source of reference potential.

2,535,286
APPARATUS FOR WORKING AND ADVANCING PLASTIC MATERIAL
George E. Henning, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 13, 1946, Serial 709,480
6 Claims. (Cl. 18—13)



1. An apparatus for advancing and working insulating and jacketing plastic material, which comprises an imperforate conduit having a uniform diameter, and a member rotatably mounted in the conduit, said member being provided with means for forcing plastic material through the conduit and also being provided with an extension having a plurality of sharp-edged, convex blades extending substantially parallel to the longitudinal axis of the extension for kneading and milling the plastic material, the cross-sectional area of the space between the extension and the conduit decreasing from the start thereof toward the delivery end thereof.

2,535,287
APPARATUS FOR ADVANCING AND WORKING PLASTIC MATERIAL
George E. Gliss, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 13, 1946, Serial No. 709,529
3 Claims. (Cl. 18—13)

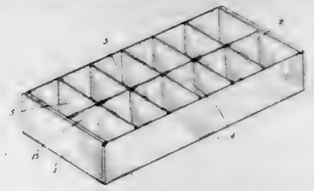


2. An apparatus for advancing and working plastic material in a hollow cylinder, which comprises a stock screw having at least one helical thread extending along a predetermined portion of the length thereof for advancing plastic material along a hollow cylinder, said stock screw also being provided with at least one blade extending along a portion of the stock screw other than the portion thereof along which the helical thread extends, said blade being provided with a concave face on one side thereof and a convex face on the other side thereof, and means for rotating the stock screw in a direction in which the convex face of the blade is in advance of the concave face thereof, whereby the convex face kneads the plastic material and the concave face beats the material.

2,535,288
PRESSURE SEAL
Eric G. Honkanen, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application September 12, 1947, Serial No. 773,719
9 Claims. (Cl. 286—15)

1. A sealing unit comprising a generally cup-shaped housing having a centrally apertured base portion, a centrally apertured sealing assembly disposed within said housing and transversely and rotatively movable therein, and a centrally apertured cover means to maintain said sealing assembly within said housing, said sealing assembly comprising a first member having a centrally apertured base portion and an annular wall portion, a second member having an apertured base portion and an annular wall portion which wall portion is positioned spaced from said first member's annular wall portion and cooperates therewith to form an annular groove, with said base portion of said second member positioned spaced from a part of said first member's base portion and cooperating therewith to provide a second annular groove, one of said grooves opening onto the base portion of the housing and the other of said grooves opening onto the aperture through the sealing assembly, and an elastic sealing ring provided in each of said annular grooves, the sealing ring in said groove opening onto the base portion of the housing having a sealing engagement with said base portion and the sealing ring disposed in the groove opening onto the aperture through the sealing assembly having a sealing engagement with a member passed through said aperture.

2,535,289
DIVISION PLATE
Leo Hopp, New York, and Estelle Mallman, Forest Hills, N. Y., assignors to The Hopp Press Inc., New York, N. Y., a corporation of New York
Application February 7, 1948, Serial No. 6,864
5 Claims. (Cl. 229—42)



1. A member for dividing the interior of a receptacle into cells, comprising a piece of sheet material bent to form transverse ribs on its upper face, another piece of sheet material bent to form a longitudinal rib on its upper face, the longitudinal rib having notches in its upper edge, the first piece having cuts therein running the length thereof and extending up into the transverse ribs, said pieces being assembled by superposing the first-named piece upon the other piece, with the transverse ribs inserted into said notches and the longitudinal rib inserted into said cut.

2,535,290
PLASTIC COMPOSITION
Reginald W. Ivett and William Koch, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 26, 1947, Serial No. 731,040
17 Claims. (Cl. 106—189)

1. A composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of diisobutylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said diisobutylphenol.

2,535,291
LADDER JACK
Zigman J. Jagiel, Toledo, Ohio
Application November 14, 1945, Serial No. 628,549
1 Claim. (Cl. 248—238)

A ladder jack comprising a support, a yoke formed at one end of said support to engage a ladder upright, a brace for said support, and a hook means connected to said brace and having binding engagement with said ladder upright, the connection between said hook means and said brace being adjacent one side of the ladder upright whereby the binding engagement of said hook is caused as a reaction to the forces in said brace, and means formed on said hook to draw

said brace against a ladder upright for lateral stability.

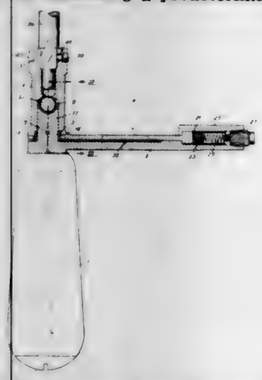
2,535,292
VALVE SEAT GRINDER
Joseph S. Klein, Jr., Plymouth, Mich.
Application June 17, 1947, Serial No. 755,071
1 Claim. (Cl. 51—58)

A device for the purpose described, comprising a frame having parallel side members and a base, a shaft having its ends supported in the respective side members of the frame, a second shaft at a right angle to the first shaft rotatably supported in the base of the frame, means between the shafts whereby rotation of the first shaft causes an oscillation of the second shaft, said means comprising an element having a grooved cylindrical periphery, a ring like element having an inner grooved periphery positioned in parallel spaced relation with the periphery of the grooved element, the grooves providing a circular raceway, balls in the said raceway, a yoke at a right angle to the first shaft having eyed end portions, a pin on each of the diametrically opposite sides of the yoke positioned in the respective eyed ends thereof, and a grinding element at the end of the second shaft.

2,535,293
TORQUE SCREW DRIVER OR THE LIKE
Frederick P. Kruse, deceased, late of Vallejo, Calif., by Jeannette S. Kruse, executrix, Albany, Calif., assignor, by direct and mesne assignments, of twenty per cent to Fred N. Kruse, Albany, Calif., forty per cent to Jeannette S. Kruse, and forty per cent to Charles O. Bruce
Application November 21, 1944, Serial No. 564,537
10 Claims. (Cl. 81—52.4)

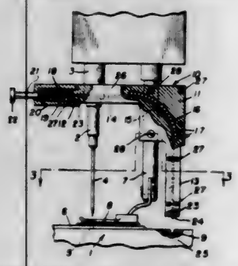
10. A torque screw driver or the like requiring combined pressure and rotational forces in the use thereof, comprising a handle and a work end, means intermediate said handle and work end for separating said rotational forces from said pressure forces, and means responsive to said

rotational forces to the exclusion of said pressure forces for indicating a predetermined limit



of said rotational forces when reached in the use of said screw driver or the like.

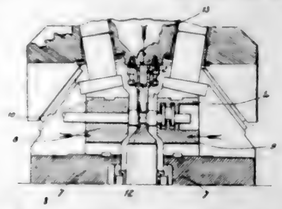
2,535,294
THREAD CUTTER
George N. Kumbera, St. Louis, Mo.
Application April 10, 1947, Serial No. 740,643
7 Claims. (Cl. 112—252)



1. In combination with a sewing machine having a pressure foot supporting bar, a thread cutter detachably supported by said bar, said cutter including an L-shaped housing having a first downwardly depending leg and a second leg carried by the upper end of said first leg, said housing having a longitudinally curved passage extending through said first and second legs thereof, a flexible operating band slidably and guidably mounted in said passage, a thread cutter blade on the lower end of said band, and manually operable means for selectively reciprocating said band in said passage to move said cutter blade into and out of operating position.

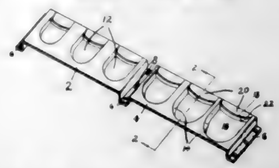
2,535,295
FORGING APPARATUS
Jean Lafont, Saint-Chamond, France, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France, a joint-stock corporation
Application June 30, 1947, Serial No. 758,131
In France July 5, 1946
2 Claims. (Cl. 29—6)

1. In an apparatus for forging a crank shaft from a cylindrical blank the combination comprising spaced lateral swages which lock the blank on both sides of the site of the crank to be forged, means for guiding said lateral swages along the longitudinal axis of said blank, a central divided swage for locking said blank at the site of the crank pin to be forged, means guiding said central swage transversely to the longitudinal axis of



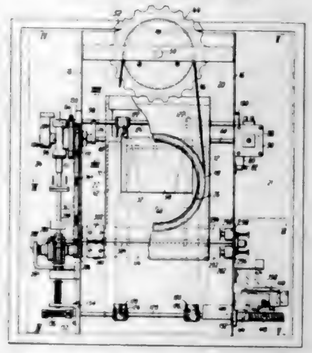
said blank, means operatively connecting said lateral swages to said central swage and a lost motion connection between said central swage and said lateral swages.

2,535,296
HEEL SIZE SELECTOR
Charles W. Laing, Spokane, Wash.
Application June 7, 1947, Serial No. 753,247
2 Claims. (Cl. 33—3)



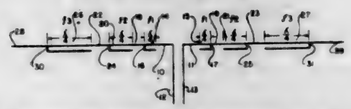
1. A heel size selector comprising an integral elevated plate having depending end flanges and graduated depressions in the plate, said depressions each having a bottom wall vertical side walls and a vertical rear wall, a foreshortened vertical front wall, and an entry wall declining from the front edge of the plate and merging with the vertical front wall.

2,535,297
CAMERA FOR MULTIPLE EXPOSURES
Lars Henrik Larsson, Uppsala, Sweden
Application March 27, 1947, Serial No. 737,442
In Sweden September 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires September 21, 1964
2 Claims. (Cl. 95—37)



1. In a camera, mechanism for the displacement of a negative holder in a camera for the exposure of several photographic images beside and beneath each other on the same sensitive sheet carried by the negative holder; said mechanism comprising a support for the negative holder, a movable slide on which said support is mounted for displacement at right angles to the path of movement of said slide, a driving motor, a transmission with a certain transmission ratio driven by said motor and a transmission with another transmission ratio driven by the same motor, and manually controlled coupling means for selectively connecting said slide with one or the other of said transmissions in accordance with the desired larger or smaller image size and thus of a larger or a smaller step of displacement necessary after each exposure.

2,535,298
RADIO ANTENNA SYSTEM
William J. Lattin, Owensboro, Ky.
Application February 13, 1948, Serial No. 8,132
5 Claims. (Cl. 250—33)

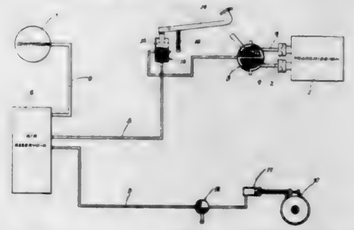


2. An antenna adapted to resonate at a multiplicity of frequencies comprising a doublet adapted to resonate at the highest fundamental frequency of the multiplicity of frequencies, a pair of quarter wave sections measured at the said highest fundamental frequency, said quarter wave sections each consisting of a pair of conductors positioned side by side and spaced from each other, one of the conductors of one of said quarter wave sections being connected to one of the remote ends of said doublet and substantially colinear therewith and one of the conductors of the other of said quarter wave sections being connected to the other remote end of said doublet and substantially colinear therewith, and means for connecting the remote ends of the said pair of conductors together in each of said quarter wave sections, said quarter wave sections and said doublet functioning as an antenna resonate at another frequency.

2,535,299
TIRE TRACTION COVER
Albert Leach, Guelph, and James Leach, Hamilton, Ontario, Canada
Application September 26, 1947, Serial No. 776,388
3 Claims. (Cl. 152—186)

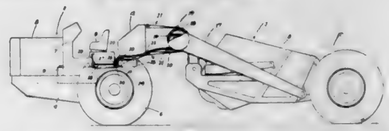
3. A tire traction cover comprising a flexible band formed in a plurality of sections adapted to be applied to a tire over the tread thereof, means secured to said sections for holding same in tire-engaging relation, a plurality of studs extending through each of said sections each stud having an enlarged base arranged against the inner face and a locking shoulder arranged against the outer face of its section, and reinforcing means separate from the material of said band running lengthwise of said sections and clamped between said enlarged stud bases and the inner faces of said sections to interconnect said studs in rows extending lengthwise around the tire to transmit strain applied to individual studs in the direction of the strain around the tire.

2,535,300
FLUID PRESSURE CONTROL SYSTEM FOR VEHICLES
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application July 6, 1948, Serial No. 37,283
6 Claims. (Cl. 192—13)



1. A fluid pressure control system for a vehicle having a transmission including fluid pressure controlled clutches, and a brake normally fluid pressure released; said system comprising a fluid pressure source, a clutch control valve operatively connected to the clutches of the transmission in selective actuating relation, a fluid pressure supply conduit between said source and valve, another fluid pressure supply conduit between said source and the brake, and normally open valve means arranged to meter the fluid flow in a clutch engaging direction and close said first named conduit preparatory to operation of the clutch control valve, so as to prevent fluid pressure drop at said source and at the brake upon clutch changing.

2,535,301
AUXILIARY FUEL TANK FOR TRACTOR-IMPLEMENT COMBINATION
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application November 19, 1948, Serial No. 60,898
3 Claims. (Cl. 280—5)

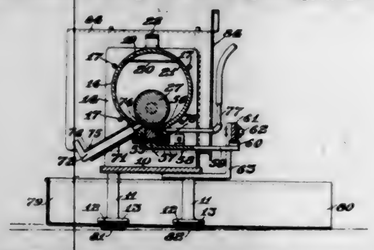


1. An auxiliary fuel tank assembly for an implement which includes a pulling tractor and a pulled vehicle which vehicle includes a draft yoke coupled to the tractor in steerable relation; such auxiliary fuel tank assembly consisting of a tubular cross beam incorporated as an integral part of the draft yoke, a fuel inlet means connected with the tubular cross beam at the top and a valved fuel outlet means connected with the tubular cross beam at the bottom, and valve controlled conduit means interposed between said valved outlet and the primary fuel tank on the tractor.

2,535,302
DISINTEGRATOR OF LABORATORY TEST SIZE FOR WET DISINTEGRATION OF CELLULOSIC PULP SAMPLES
Robert M. Levy and Ward D. Harrison, Brevard, N. C., assignors to Ecusta Paper Corporation, a corporation of Delaware
Application May 3, 1944, Serial No. 533,982
2 Claims. (Cl. 92—22)

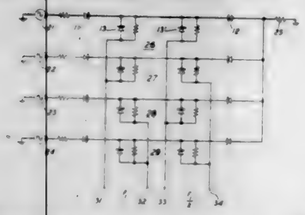
1. A disintegrator of laboratory test size

adapted for wet disintegration of cellulosic pulp samples for dispersc viscosity determinations, comprising a cylindrical chamber for containing said wet pulp samples, a grooved rotor member disposed for rotation in said chamber in peripherally-opposed relation to an internal wall portion of said chamber, said chamber being formed with a recess at said wall portion and said recess having a lateral opening, a grooved



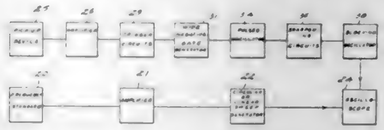
block removably positioned in said recess in opposed relation to said rotor member, said grooved block being transversely removable from said recess through said lateral opening without disturbing said rotor member, a resilient diaphragm closing the bottom of said recess and supporting said grooved block, and a weighting means bearing externally on said diaphragm for biasing said grooved block against said rotor member under a predetermined constant pressure.

2,535,303
ELECTRONIC SWITCH
Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 21, 1949, Serial No. 122,765
20 Claims. (Cl. 171—97)

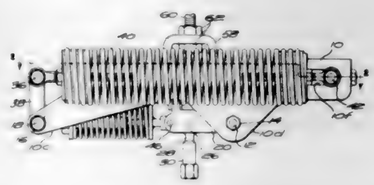


16. Switching means to control the flow of energy between an energy source and a load comprising in combination a pair of asymmetrically conducting devices connected in series between said source and said load, a plurality of similar asymmetrical devices each having one electrode connected to a point between the devices of said pair, the said pair and said plurality of asymmetrical devices having one set of like electrodes connected together, a resistance in parallel with each of said plurality of asymmetric devices, and control means, one for each of said plurality of devices, comprising a voltage source connected to the electrode of each of said plurality of devices other than the said like electrode.

2,535,304
ELECTRONIC DEVICE FOR PERIODIC TIMING
Oscar O. Lindborg, Charlestown, Mass.
Application August 18, 1947, Serial No. 769,111
7 Claims. (Cl. 73—6)

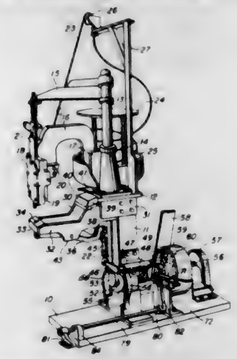
1. A periodic timing device comprising an oscilloscope, means producing a trace on said oscilloscope at a known frequency, a pick-up device actuated by a source of an unknown frequency, an amplifier for said pick-up device for amplifying the pulses therefrom, a trigger generator connected to said amplifier to generate a trigger coincident with each of said pulses, a negative gate generator connected to said trigger circuit for generating a negative gate initiated by said trigger, an oscillator connected to said negative gate generator for generating an undamped series of oscillations during the duration of said negative

gate the beginning of said series of oscillations occurring coincident with the pulse from said pick-up device, and means connecting said oscillator to said oscilloscope for deflecting said trace in timed relation to the unknown frequency and each of said oscillations, whereby the deflection is sustained substantially through the interval between successive cycles of the unknown frequency thus providing an image of an intensity substantially equivalent to that of said trace for facilitating the observation thereof.

2,535,305
SPRING SUPPORT
Albert J. Loepsinger, Providence, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware
Application September 2, 1949, Serial No. 113,817
5 Claims. (Cl. 248—54)



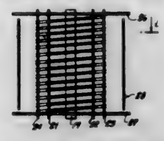
1. A spring support for a load of known value subject to displacement within a predetermined range, comprising a fixed element; a rotatable element pivotally mounted on said fixed element close by the middle thereof to which rotatable element the load is connected at substantially the middle of the support and on which rotatable element the load exerts a turning moment in one direction; a second rotatable element pivotally mounted on the fixed element near one end thereof; main spring means connected to the opposite end of said fixed element and to said second rotatable element and exerting a turning moment on the latter element in direction opposite to that of the moment exerted by the load on the first said rotatable element; and linkage connecting said rotatable elements for transmitting unchanged to the first said rotatable element the moment exerted by the main spring means; and compensating spring means interposed between the said fixed element and the first said rotatable element for exerting a turning moment thereon which substantially compensates for any variation between the main spring moment and the load moment.

2,535,306
STAPLING MACHINE
Joseph R. Mackey, Longview, Tex., assignor to Cummer-Graham Company, Longview, Tex., a corporation of Texas
Application August 22, 1949, Serial No. 111,602
6 Claims. (Cl. 1—13.6)



1. A stapling machine including, an upright support, a stapling head, an angular bracket connecting the stapling head to the support, a bracket mounted on said support, in spaced relation to the angular bracket for positioning an assembled basket and its flat bottom in angular relation to said stapling head, the spacing between the brackets being sufficient to permit insertion of the basket and its bottom therebetween and the driving of staples from within and angularly relative to said basket for attaching the bottom thereto, and means for actuating said head.

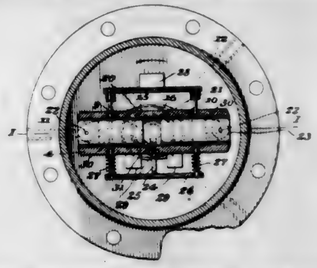
2,535,307
GRID-CONTROLLED ELECTRON TUBE
Arthur H. Mankin, Philadelphia, and David E. Sunstein, Cynwyd, Pa., assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application April 5, 1946, Serial No. 659,684
17 Claims. (Cl. 250—27.5)



1. A grid system for electron tubes and the like, comprising main grid wires defining a main grid opening through which a stream of charged particles is to pass, and means to maintain the potential field in the plane of said opening substantially uniform throughout, the last-mentioned means consisting of a group of auxiliary grid wires mounted on each side of the main grid wires and insulated therefrom.

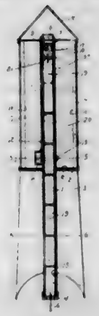
2,535,308
COMPRESSOR
Svend Axel Jørgen Mansted, Hellerup, near Copenhagen, Denmark
Application October 13, 1949, Serial No. 121,116
In Denmark November 10, 1947
4 Claims. (Cl. 230—29)

1. An opposed-piston compressor comprising a cylinder block journalled for revolution around an axis and having a through-going cylinder bore perpendicular to said axis of revolution, a pair of opposed pistons in said cylinder bore, oppositely directed stationary eccentric means positioned in the vicinity of said axis of revolution, eccentric rods operatively connecting either of said pistons to one of said eccentric means respectively, each



rod being pivotally connected to the pertaining piston in the vicinity of the outer end thereof, a conduit emerging from the cylinder space confined between the opposed piston surfaces and opening out on one side surface of said cylinder block, and a stationary annular slide valve face concentric with the axis of revolution for cooperation with said conduit opening.

2,535,309
ROCKET
Charles Napoleon Marl, New York, N. Y.
Application March 4, 1947, Serial No. 732,165
7 Claims. (Cl. 102—34.4)

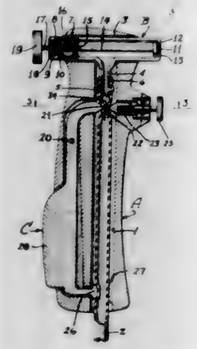


1. A rocket including a barrel, a series of rocket propelling cartridges in said barrel having provisions for igniting the same one at a time, a dust container carried by said barrel and including cylindrical segments having top and bottom segments shaped to fit said barrel and means to hold the same assembled, an explosive in said barrel located in cooperative relation to said segment-holding means for releasing the same when the explosive is ignited to release said segments to free the dust, and means to ignite said explosive from the last cartridge of the series.

2,535,310
VALVE
Ralph W. Mattison, Vallejo, Calif.
Application August 14, 1945, Serial No. 610,706
1 Claim. (Cl. 251—5)

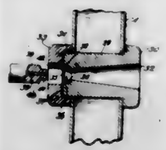
A valve for a clothes sprinkler comprising a body adapted to be grasped in one hand and enclosing a flexible tube connectible to a source

of water supply under pressure, the body having an outlet communicating with the tube, an adjustable support concealed in the body and contacting the tube, a hand lever pivotally carried by the body and having a short arm enclosed by the body whose end is designed to compress the tube against the concealed support for cutting off the water supply to the outlet, and a manually depressible long arm whose end bears against the tube, the water pressure exerting



sufficient force and the ratio of the lengths of the arms being such that a freeing of the long arm from manual depression by the same hand will permit it to move under the pressure of water and cause the short arm to press the tube against the support for cutting off the flow of water to the outlet, and manually adjustable means for adjusting the support toward and away from the short arm to regulate the valve effect produced by the support and short arm.

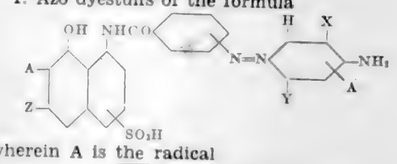
2,535,311
FIRE EXTINGUISHING DEVICE
Joseph Henry McGann, Jr., Washington, D. C.
Application January 12, 1948, Serial No. 1,677
3 Claims. (Cl. 169—1)



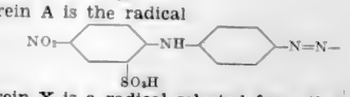
1. In a fire fighting device adapted for insertion in a wall structure, a body member having a longitudinal passageway therethrough provided with integral retaining means at one end thereof, removable retaining means at the opposite end thereof, a vent for the discharge of extinguisher fluids, clamping means to maintain an extinguisher nozzle in place in said member, said nozzle having a bulbous nipple provided with a peripheral groove adjacent thereto, said clamping means comprising an imperforate membrane at one end of said passageway, said membrane being adapted to be ruptured by said nozzle upon the application of pressure thereto, said passageway having a peripheral ridge adapted to engage said membrane in said groove to maintain said nozzle in said passageway.

2,535,312
AZO DYESTUFFS
Mordecai Mendoza, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 22, 1949, Serial No. 111,771. In Great Britain September 8, 1948
3 Claims. (Cl. 260—173)

1. Azo dyestuffs of the formula



wherein A is the radical

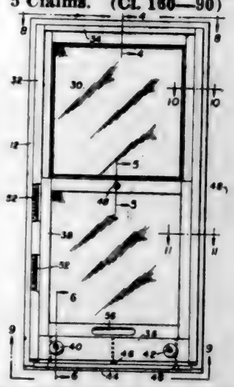


wherein X is a radical selected from the group consisting of H and CH_3, wherein Y is a radical selected from the group consisting of NH_2 and OH and wherein Z is a radical selected from the group consisting of H and SO_3H.

2,535,313
PREPARATION OF FLOUR BLEACHING COMPOSITIONS
William A. Mitchell, Cedar Grove, N. J., assignor to General Foods Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 18, 1946, Serial No. 648,569
5 Claims. (Cl. 99—232)

1. The process of preparing a finely divided bleaching composition for dry admixture with flour to be bleached which comprises forming a solution of benzoyl peroxide, diluting the solution with a precipitant for benzoyl peroxide which is miscible with the peroxide solvent while suspending finely divided starchy material in the liquid mixture to cause precipitation of the peroxide in the presence of the suspended starchy material, and then separating the starchy material and the precipitated peroxide from the liquid suspension and drying the same.

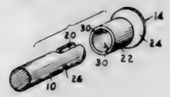
2,535,314
STORM WINDOW AND SCREEN ASSEMBLY
Willard W. Moore, Scottsbluff, Nebr.
Application December 14, 1948, Serial No. 65,116
5 Claims. (Cl. 160—90)



1. A storm window and screen assembly securable on the outside of a window frame comprising

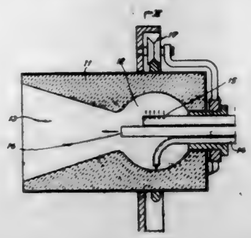
a frame having stiles and top, center and bottom rails, a glass fixed between outer portions of said top and center rails and the upper portions of said stiles, a screen fixed to outer portions of the center and bottom rails and the lower portions of said stiles, the inner portions of said stiles having vertical sash guides, a glazed sliding sash in said guides covering said screen when lowered and exposing said screen when raised, said lower rail comprising a fixed portion adjacent said screen and a removable portion under said sliding sash to allow the glazed sash to be slid downwardly out of said stiles when necessary.

2,535,315
KNITTING NEEDLE
Bert Morrison, Detroit, Mich.
Application April 7, 1948, Serial No. 19,561
9 Claims. (Cl. 66—117)



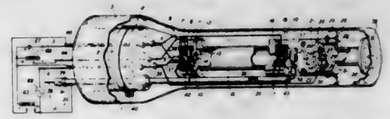
1. A knitting needle having a detachable cap on one end thereof and a transverse hole therethrough adapted to be covered by the cap, and a longitudinal groove associated with each opening end of the hole and extending from the hole to said end of the needle.

2,535,316
ROTARY VAPORIZING TYPE BURNER WITH CARBON REMOVAL MEANS
Olof Axel Ohlsson, Stockholm, Sweden, assignor to Aktiebolaget Cryptoteknik, Stockholm, Sweden, a company of Sweden
Application December 6, 1946, Serial No. 714,426
In Sweden July 29, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires July 29, 1960
2 Claims. (Cl. 158—28)



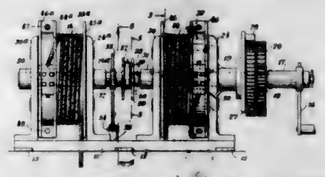
1. A burner for liquid fuel including a hollow body mounted to rotate around a substantially horizontal axis and having a gas chamber therein provided with an outlet opening at one end of the body, means for supplying fuel to the bottom of said chamber at a predetermined rate, means for directing an air stream for burning off the coke produced during the combustion of the fuel against the wall of the chamber located above the place of supplying the fuel, and means for rotating said body and chamber slowly so as to permit the coke formed at the inner surface of the chamber to be burnt off before said surface returns to the place of supplying the fuel.

2,535,317
HIGH-SPEED OSCILLOSCOPE
John R. Pierce, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 26, 1949, Serial No. 72,799
11 Claims. (Cl. 250—156)



1. An oscilloscope comprising an evacuated envelope containing a cathode, means for producing a beam of electrons along a path from the cathode, electron beam deflecting means located along said electron path remote from the cathode, said deflecting means comprising a high frequency transmission circuit extending adjacent to said electron path for several wavelengths at the highest frequencies used and having a wave propagation velocity substantially equal to the velocity of the electrons in said beam, whereby the electric field of said circuit is impressed upon said adjacent electron path and said beam is cumulatively deflected therealong when the circuit is energized, means for energizing said circuit at the end nearer the cathode and a viewing screen located in the path of the electron beam beyond said deflecting means.

2,535,318
MECHANISM FOR WINDING AND PAYING OUT CABLES AND THE LIKE
John Telford Ratcliffe, Frinton-on-Sea, England
Application August 4, 1947, Serial No. 766,073
In Great Britain February 8, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1966
7 Claims. (Cl. 254—185)



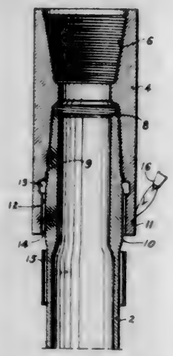
2. A cable winding mechanism comprising a main cable drum of hollow cylindrical shape, a ring of internal gear teeth formed within said drum, two internal circular races formed within said drum, one on each side of the ring of gear teeth, a driving shaft extending into said drum adjacent one side thereof, a toothed pinion which is fast on said shaft and meshes with the gear teeth, a pair of rollers mounted upon said shaft and freely rotatable thereon, said rollers being gripped radially between the shaft and the respective races when the pinion teeth are meshing to the correct depth with the internal ring of teeth, a plurality of guide spindles disposed within the drum at the side thereof remote from the driving shaft, guide rollers on said spindles also engaging with the circular tracks, an auxiliary drum disposed coaxially with respect to the main drum, a driving shaft for the auxiliary drum disposed axially in line with the driving shaft of the main drum, a ratchet coupling between the two driving shafts, a ring of internal gear teeth and a circular race formed within the auxiliary drum, a pinion on the corresponding driving shaft in engagement with said teeth, and rollers

on said shaft engaging the race and holding the pinion correctly in mesh with the ring of gear teeth of the auxiliary drum.

2,535,319
METHOD OF MAKING ORNAMENTAL CAKES
Clarence V. Redinger, San Bernardino, Calif., assignor of forty-nine per cent to Delanoy E. Roode, Highland, Calif.
Application October 28, 1949, Serial No. 124,081
2 Claims. (Cl. 107—54)

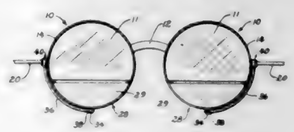
1. The method of making ornamental cakes which consists of depositing a quantity of unbaked cake batter of one color in the bottom portion of a baking pan, placing a number of lightly baked wafer-like pieces of cake of a different color vertically upon said batter in face to face relation and from end to end of the pan as well as centrally between and in spaced relation to the sides of the pan, filling the spaces between said pieces of cake and the sides of the pan with more of the same batter, and then baking the batter and completing baking of the pieces of cake in the pan so that the batter rises and covers said pieces of cake.

2,535,320
TOOL JOINT
Julius Ray Richardson, Wichita Falls, Tex., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application April 7, 1944, Serial No. 529,971
7 Claims. (Cl. 285—146)



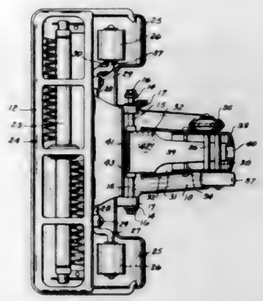
1. In a drill pipe connection, a tool joint and a drill pipe, said tool joint having an internally threaded socket with a surrounding skirt extending outwardly from said socket, said drill pipe extending through the skirt into the socket and having threaded connection in the socket with the tool joint, said skirt having an internal diameter appreciably greater than the external diameter of the drill pipe within the skirt, and a sleeve fitting between the skirt and drill pipe and closely fitting the drill pipe and having an external diameter greater than the internal diameter of the skirt, whereby the sleeve may be assembled between the skirt and the pipe when said skirt is expanded by heat and is held therebetween by a shrunk fit upon cooling of the skirt.

2,535,321
ADJUSTABLE EYEGLASSES
John L. Rooney, Chicago, Ill.
Application September 22, 1948, Serial No. 50,573
2 Claims. (Cl. 88—41)



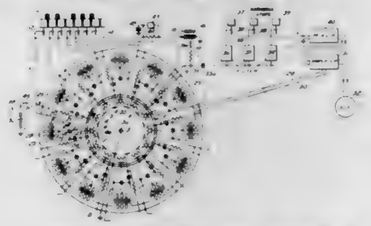
1. Eyeglasses comprising a pair of normally subtantially planar lenses, separate upper and lower sections forming said lenses, separate frames for said upper and lower sections, and connecting means secured to adjacent upper and lower frames for supporting said lower sections for angular movement relative to said upper sections.

2,535,322
VACUUM CLEANER WITH AUTOMATIC NOZZLE HEIGHT ADJUSTMENT
Arthur William Seyfried, Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application September 12, 1946, Serial No. 696,429
7 Claims. (Cl. 15—319)



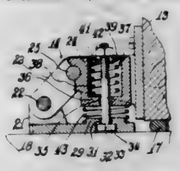
1. A vacuum cleaner comprising a motor and nozzle unit, means extending transversely between the nozzle and the center of weight of the cleaner pivotally supporting the motor and nozzle unit, and means yieldingly connected to the rearward portion of the cleaner for supporting said portion and for automatically adjusting the position of the nozzle relatively to the surface to be cleaned, said means comprising a pivotally mounted bracket, a plurality of rotatable members of different tread areas mounted on the bracket and spaced apart longitudinally of the cleaner, the member of greater tread area being rearmost, a biasing member pivotally mounted on the motor and nozzle unit and having its free end bearing on the pivotally mounted bracket, and resilient means bearing on the biasing member, whereby the rearward supporting means is resiliently urged downwardly, said resilient means being of such strength that the bracket will yield upwardly against said biasing means as the effective fulcrum of the rearward supporting means is shifted rearwardly due to variations in the relative degrees of sink of said rotatable members.

2,535,323
ELECTRONIC ORGAN
Albert M. Skellett, Madison, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application June 9, 1949, Serial No. 97,953
14 Claims. (Cl. 84—1.21)



1. An electronic instrument, comprising, an electron tube having an electron-emitting cathode, a plurality of discrete electron tube sections surrounding said cathode each section including in radial sequence an anode and a control grid and a slat electrode, an audio frequency oscillatory circuit coupling each grid to its associated anode, each oscillatory circuit being tuned to a different frequency, a keyboard having a series of keys one for each of said tube sections for controlling the regenerative feedback action of each section to cause a sustained audio frequency electric wave to be produced at the output of each section, an audio frequency transducer connected in common to all said sections and means connected in common to all the slat electrodes to selectively apply to said transducer any desired harmonics of the audio frequency wave.

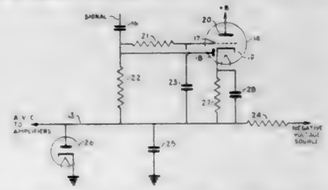
2,535,324
COMPENSATING HINGE
George W. Slopa, Chicago, Ill.
Application February 17, 1948, Serial No. 8,939
8 Claims. (Cl. 16—131)



5. A hinge comprising a mounting plate and a door carrying member, a link pivotally connected at one end to said plate and intermediate its ends to said door carrying member, resilient means connecting the free end of said link to the mounting plate effective to urge said end towards said plate, and means to limit movement of the free end towards said plate.

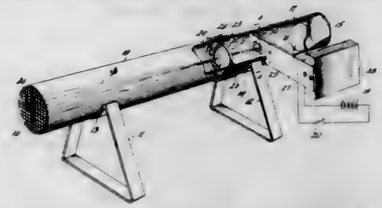
2,535,325
AUTOMATIC VOLUME CONTROL
Raymond F. Smeltzer, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application February 25, 1946, Serial No. 650,062
3 Claims. (Cl. 179—171)

1. In a system for the automatic volume control of a radio receiver: a control channel; a source of negative potential of a magnitude sufficient to provide the maximum desired control action; means applying said negative potential to said channel; a source of positive potential; a control tube comprising an anode, a cathode, and a control grid, said cathode being connected to said control channel and said anode being connected to said source of positive potential; said source of negative potential presenting to said control channel an impedance of such value that normal space current flow through said control tube in the quiescent state thereof will substantially nullify the application of said negative potential to said channel; a second anode in said control tube; a rectifying circuit; means for applying a signal voltage derived from said receiver



to said rectifying circuit, said rectifying circuit including said second anode and said cathode; means applying the average product of said rectification to said grid; and self-biasing means for said control tube comprising a resistor in the circuit of said cathode connected between said cathode and said channel, and a condenser shunting said resistor, said biasing means establishing a bias on said grid and second anode with respect to said cathode due to grid controlled space current flow and rectification in said control tube.

2,535,326
PROJECTION VIBRATION INDICATOR
Bernard William Smith, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 14, 1948, Serial No. 54,547
12 Claims. (Cl. 88—24)

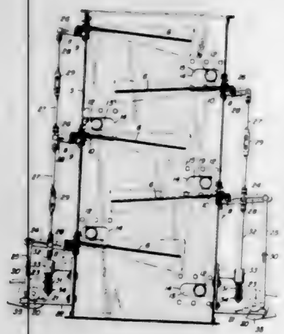


1. In a vibration testing apparatus, a light source, a viewing screen, a movable member having one end adapted to contact and vibrate with a unit to be tested, the other end of said member having an aperture adapted to be interposed and vibrate between the light source and the viewing screen, and means for projecting an image of said aperture upon said screen whereby a movement of the unit being tested will be transmitted through the vibrating aperture into a movement of an image of the aperture upon the viewing screen.

2,535,327
DRIER
Cornelius C. Smith, Slocomb, Ala.
Application August 10, 1949, Serial No. 109,527
7 Claims. (Cl. 34—164)

1. A drier comprising a vertical casing, means to discharge air into the casing, a plurality of

vertically spaced screens in the casing disposed in transversely staggered relation and adapted to successively discharge material onto each other from the uppermost one down, pivot mounting means for the screens at their opposite ends in alternating order, and mechanisms at opposite



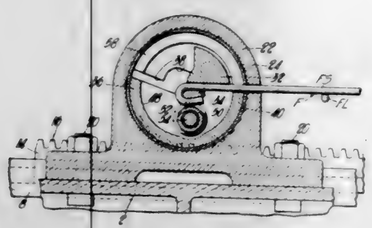
sides of the casing connected to the pivoted ends of the screens to oscillate the latter about their pivots through a vertical arc, said mechanisms including adjusting means to turn the screens on their pivots and set them at different maximum slopes.

2,535,328

HOOK FORMING APPARATUS FOR RODS AND WIRE

Thomas S. Somerville, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application August 23, 1949, Serial No. 111,875
5 Claims. (Cl. 153—15)



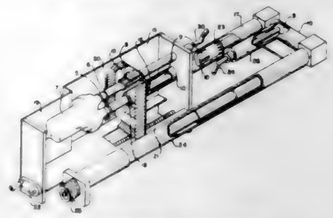
1. Apparatus for forming hooks on the ends of rods comprising a housing, a housing cap attached to said housing, a cylinder rotatably mounted in said housing, means for rotating said cylinder, a hook mandrel fastened to said cap and extending inside said cylinder, a holding mandrel fastened to said cap and extending inside said cylinder, said mandrels being spaced apart to permit insertion of said rod therebetween, and a roller mounted in said cylinder for movement therewith, the axis of said roller being parallel to the cylinder axis, said roller being adapted to contact the end of the rod and bend it around the hook mandrel when the cylinder is rotated.

2,535,329

ARRANGEMENT FOR COUPLING A PARALLEL RESONANT LINE TO A COAXIAL LINE LOAD

Oliver I. Steigerwalt, Niagara Falls, N. Y., assignor to United States of America as represented by the Secretary of War

Application March 26, 1946, Serial No. 657,300
3 Claims. (Cl. 178—44)



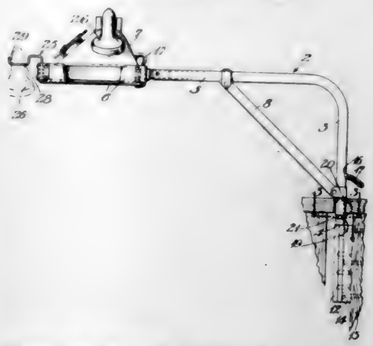
1. A resonant parallel line and load coupling structure, including two parallel resonant lines, a movable metallic plate having two apertures through which said lines extend, metallic members extending from said plate and providing contact with one of said lines, an annular dielectric member about the other of said lines insulating and spacing said other line within one said aperture, an inner coaxial conductor connected to and constituting a continuation of said other line, a section of coaxial tubing attached to said plate and extending about a portion of said inner coaxial conductor, a quarter wavelength stationary outer coaxial conductor extending about said section of coaxial tubing and said inner coaxial conductor, sliding contact means between said section of coaxial tubing and said outer coaxial conductor, and a coaxial transformer section electrically connected at one end to said outer and inner coaxial conductors and adapted at its other end to be connected to a load.

2,535,330

SWINGING TELEPHONE BRACKET

Warren B. Stone, Phoenix, Ariz.

Application March 28, 1947, Serial No. 737,951
1 Claim. (Cl. 179—149)



A pivotally swinging bracket for a telephone instrument of the French type having a removable transmitter-receiver joined by a handle, and a rectangular base with attaching cords extending from the back edge thereof, comprising in combination, a bracket element composed of a metal tube, bent at right angles to provide a horizontal arm and adjoining vertical arm with the

lower end thereof constituting a bearing and provided with a transverse slot extending throughout approximately 240 degrees of the periphery thereof; a vertical hollow pivot journalled in the lower end of said bracket arm having a radially extending stop screw with its outer end positioned in engagement with said transverse slot on said vertical arm, to retain said arm on said pivot; a horizontal tray attached to the outer end of said horizontal arm adapted to receive and retain the base of said telephone instrument; said bracket element having openings adjacent the edge of said telephone base to admit said telephone instrument cord into the tubular portion thereof; and a shelf-like hook bracket attached to the front of said tray adapted to receive and retain the handle portion of said telephone instrument transmitter-receiver in horizontal position.

2,535,331

WAVE GUIDE ANTENNA

Lewis E. Swarts, Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application February 27, 1945, Serial No. 580,015
1 Claim. (Cl. 250—33.63)

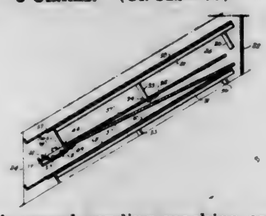
In an electrical apparatus for the conduction and radiation of electromagnetic energy, a wave guide; a radiating means coupled to said wave guide, said radiating means comprising a circular back plate having two lateral apertures and a central aperture fitting over and attached to the end of said wave guide; a second circular plate having a circumferential threaded flange, said second circular plate having two lateral apertures so placed as to coincide with the lateral apertures of said circular back plate and a central aperture fitting over said wave guide; a sheet of insulating material and a sealing gasket placed between said back plate and said second circular plate; a circular front plate placed opposite the open end of said wave guide and having a circumferential threaded flange adapted to screw onto said flange of said second circular plate, said circular front plate having further a circumferential slot; and a sealing annulus fitting into said circumferential slot.

2,535,332

DISK RECORD VENDING MACHINE

John F. Sweeney, Edward T. Able, and Irwin A. MacKay, Denver, Colo., assignors to B. K. Sweeney Manufacturing Company, Denver, Colo., a corporation of Colorado

Application February 24, 1947, Serial No. 730,384
3 Claims. (Cl. 312—70)



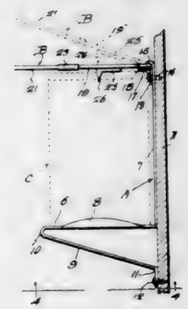
3. A disk record vending machine comprising a housing, a storage chamber in the housing, said housing having a record dispensing slot opposite said chamber and an opening for receiving records opposite said slot, a floor inclined downwardly toward said slot, removable means for releasably supporting a plurality of records comprising a track spaced from the floor and extending longitudinally between the slot and receiving opening, a record carrier slidably and removably mounted in the track, said carrier including a depending holder, and a handle on the carrier accessible through said receiving opening in the housing.

2,535,333

CAN PUNCTURING DEVICE

Carl Swyers, St. Albans, W. Va.

Application March 25, 1946, Serial No. 656,921
2 Claims. (Cl. 30—10)



2. A milk can basing, holding and top puncturing device of the type shown and described comprising a sheet material wall fixture, said fixture being of a single piece of material and embodying a horizontally disposed shelf provided at one end with an upstanding wall, said wall terminating at its upper end in spaced bearings and being provided, between said bearings with a lateral and downwardly bent detent, said detent overlying said shelf and being at right angles to said wall and having an upturned free end portion, the end of the shelf opposite to the end carrying said wall being provided with a down bent diagonally disposed bracing leg terminating in an attaching ear, said ear being in an approximate plane with said upstanding wall, opposed longitudinal edge portions of said shelf having upstanding lips providing can confining flanges, said flanges serving to embrace diametrically opposite portions of the base part of the milk can and said detent being adapted to rest resiliently upon the top of the can, and a wire frame having journals hingedly mounted in said bearings and provided with can puncturing elements and further including a finger ring.

2,535,334

DEVICE FOR MAINTAINING A SECTION OF A BAND IN LATERAL POSITION WHILST BEING SUBJECTED TO A FORWARD MOVEMENT

Jean Thévenaz, Sainte-Croix, Switzerland, assignor to Paillard S. A., a corporation of Switzerland

Application July 7, 1948, Serial No. 37,376
In Switzerland July 29, 1947
2 Claims. (Cl. 88—17)

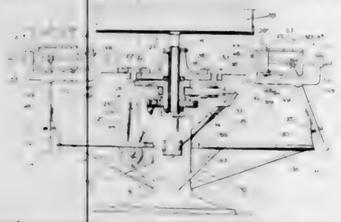
1. In combination with a lens device having a passage for a band such as a film and two spools

for said film, one of said spools being in advance of said passage and the other beyond said passage and means moving said film, one of the sides of said passage being defined by a lateral stationary wall perpendicular to the transverse plane of the passage, a second side for said passage, said second side being stationary and inclined relatively to said first side, a fixed support rigid with the inner lower side of the first passage wall and engaging the band adjacent an edge thereof, and guide means for said band and having a band engaging planar surface of a height less than that of the fixed support, said guide means serving to direct said band toward said passage and to maintain one of the edges of said band in permanent contact with said sup-

port, said support fixing the position in depth of said one edge of said band in said passage and automatically maintaining the two edges of said band in contact with the two sides of said passage, and wherein said means are formed by a guide passage for guiding said band, a lens in said lens device, said band being guided in front of said lens by said guide passage, said guide passage being so located that in a tangential plane said band at the height of a loop formed in advance of the said passage and at the top of the said passage, passes above the end of the passage defined by said first mentioned support in such a manner that the natural elasticity of the band automatically maintains its two lateral edges in permanent contact with the two lateral sides of said passage.

2,535,335
APPARATUS FOR CHILL CASTING
Marcel Thevenin, Champagnole, France
Application March 19, 1948, Serial No. 15,902
In France March 21, 1947
6 Claims. (Cl. 22—77)

2. In a casting apparatus comprising a moving



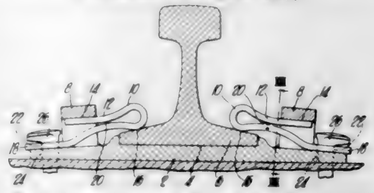
support carrying a plurality of separable molds and adapted to successively position each of said molds under a tap-hole, the combination with said support of means for moving said support intermittently comprising a continually moving member associated with said moving support and having a projection, lugs slidably mounted in said support and normally projecting into the path of said projection, there being a lug for each mold on the support and a fixed cam in the path of travel of said lugs out of engagement with said projection, said tap-hole and said cam being so positioned with respect to each other that said cam is operative to disconnect a lug from driven engagement with the said projection when its related mold reaches a position under said tap-hole.

2,535,336
IRRIGATION TRAY FOR ADMINISTERING ENEMAS TO BABIES
Virginia C. Thompson, Arlington, Va.
Application June 16, 1947, Serial No. 754,980
2 Claims. (Cl. 4—112)

2. In a tray for use in administering enemas to babies, a structure comprising an elongated plate that is substantially straight in its longitudinal dimension and concave in its lateral dimension and of a length and width to support the entire body of a baby, the forward end of said plate merging into a bulbous body, said body comprising curved front and side walls, said front and side walls of the bulbous body merging into the forward end of the plate along curved lines which present concave curved surfaces toward the plate

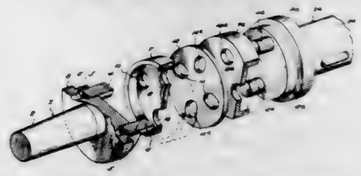
at all points, the front wall being inclined rearwardly and being at least as high as the plate is wide, the side walls inclining toward each other toward their top portions, and members projecting downwardly from the underside of the plate far enough to engage in and anchor the tray against slipping with respect to a pillow upon which the tray is supported.

2,535,337
RAIL FASTENING DEVICE
Frank G. Wertz, Cambria, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application June 5, 1947, Serial No. 752,663
7 Claims. (Cl. 238—349)



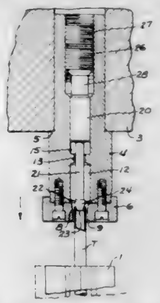
1. Rail fastening means comprising a tie plate having a seat portion for the base of the rail, an inverted substantially U-shaped member secured to said tie plate at a point intermediate the seat portion and the edge of the plate, an elongated spring bent to form a two-leaf spring clip with the free end of the top leaf bearing against the under side of the inverted U-shaped member, the other end of the top leaf being bent and joined to one end of the bottom leaf, said end of the bottom leaf bearing on the top of the rail flange, the other end of the bottom leaf being free and bearing on the top of the tie plate, said bottom leaf being bent concave upwardly to space the top and bottom leaves a short distance apart for a short portion of their length so that initial movement of the rail is against slight spring pressure and further movement is against high spring pressure.

2,535,338
FLEXIBLE COUPLING
John C. Wilcox, Erie, Pa.
Application March 23, 1945, Serial No. 584,374
3 Claims. (Cl. 64—31)



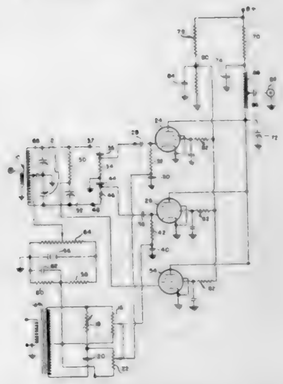
1. In a flexible coupling, the combination of driving and driven elements, each comprising a shank and an enlarged head at one end thereof, diametrically opposed keys carried by each head and projecting longitudinally therefrom, the keys of one head being angularly displaced substantially ninety degrees with respect to the keys of the other head, a cap affixed to each head and through which the keys pass, a member interposed between the driving and driven elements provided with a plurality of radially elongated openings angularly disposed to receive the keys of each of said elements, and a flexible body bonded to each cap and said member whereby said elements are connected as a unit operable to compensate for relative misalignment affecting the driving and driven elements.

2,535,339
DEVICE FOR SIZING THE ENDS OF TUBING
Erich O. Woeller, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan
Application March 7, 1949, Serial No. 79,933
2 Claims. (Cl. 153—80.5)



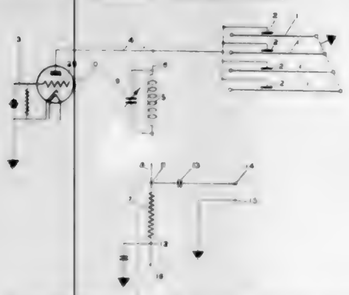
1. A device for expanding the end of a length of tubing comprising, a relatively fixed die member with a die opening therein, the die opening having a diameter greater than the outside diameter of the tubing and adapted to have the end of a length of tubing projected thereinto from one side thereof, a mandrel member having a work part, the mandrel member being slidably mounted with respect to the die member so that in one extreme position the working part is on the opposite side of and out of cooperating relationship with the die opening, and in the other extreme position the working part lies in the die opening, the mandrel member being engageable by the tubing as it is projected, the operating part having a diameter greater than the inside diameter of the tubing, whereby the tubing, as it is projected through the die opening and then over the operating part of the mandrel is thereby expanded, the mandrel, upon withdrawal of the tubing, being shifted by the tubing to a position where its operating part lies in the die opening, whereby the expanded wall of the tubing, upon withdrawal of the tubing is engaged between the operating part of the mandrel and the walls of the opening and thereby accurately sized as to interior and exterior diameter.

2,535,340
SINGLE SIDE BAND MODULATOR
Russell R. Yost, Jr., Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of War
Application November 27, 1945, Serial No. 631,180
5 Claims. (Cl. 332—45)



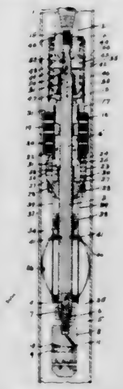
1. A single sideband modulator circuit comprising a first tuned transformer for introducing a first signal, a first and a second phase shifter connected to a first and a second half of the output of said transformer for providing a second and a third signal in phase quadrature, a third phase shifter connected to the entire output of said tuned transformer for providing a fourth signal mutually shifted in phase with respect to the three above mentioned signals, a second transformer means for introducing a fifth signal, a fourth phase shifter connected to the output of said second transformer for providing a sixth signal mutually shifted in phase with respect to said fifth signal, first and second potentiometer means for adjusting the amplitudes respectively, of said fifth and said sixth signals, a first vacuum tube modulator circuit providing means for modulating said second signal with said fifth signal, a second vacuum tube modulator circuit providing means for modulating said third signal with said sixth signal, a vacuum tube amplifier circuit providing means for amplifying said fourth signal, means for controlling the gain of said amplifier circuit and means for combining the outputs of said first modulator circuit, said second modulator circuit and said amplifier circuit in a common impedance whereby the amplitude of a seventh signal having the same frequency as said first signal, an eighth signal having a frequency equal to the sum of the frequencies of said first signal and said fifth signal and a ninth signal having a frequency equal to the difference of the frequencies of said first signal and said fifth signal may be selectively and individually varied in amplitude through a range of values including zero.

2,535,341
TRANSLATION SYSTEM
Jack R. Zeckman, Centralia, Wash.
Application July 14, 1947, Serial No. 760,740
3 Claims. (Cl. 84—1.14)



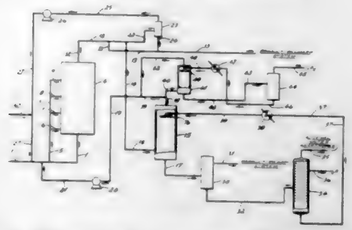
2. A translation system for reproducing sounds from the vibrations of musical instruments comprising vibratory sound producing means, grounded at one end, plate means each adjacent one of the vibratory means and constituting therewith a condenser, an oscillator including an output plate connected to the plate means, tuning means at one end connected to the plate means and oscillator, a resistance having one of its terminals connected to the other end of the tuning means and the other terminal to ground, and terminals connected to an amplifier, one of said amplifier terminals being connected to the first resistance terminal and the other amplifier terminal being connected to ground.

2,535,342
FORMATION TESTER
Erick L. Ahlgren, Houston, Tex.
Application November 3, 1944, Serial No. 561,744
3 Claims. (Cl. 166—12)



1. In a tester for wells, a bar, tubular means for connecting the upper end of the bar to a tubular operating string and communicating therewith, a jaw expander around and slidable on the bar, means on the bar for supporting the jaw expander for limited downward movement relative to the bar, casing engaging jaws on and surrounding the bar, means frictionally engageable with a surrounding casing releasably connecting the jaws to the bar in retracted position, said jaws being engaged and expanded into engagement with the casing by said jaw expander upon release of said jaw connecting means and downward movement of the bar and jaw expander relative to the jaws, an annular packer assembly including an annular packer around the bar and supported by the jaw expander, an annular packer expander around the bar on the packer assembly and having an upwardly facing valve seat, said packer assembly and expander having a passageway therethrough with an opening in each expander through which fluid may flow from beneath upwardly through them around the bar, a valve around, and slidable on, the bar above the packer expander, means on the bar for supporting the valve in a lower position on the bar spaced above the packer expander seat, said bar having a main duct with its lower end leading from an opening in the outside surface on the bar below said tubular means and upper end opening into said tubular means connected into said string, the lower end of said main duct being closed by said valve when the valve is in said lower position and said bar having a by-pass duct whose ends terminate above and beneath said valve, respectively, when the valve is in said lower position, yieldable means surrounding said bar and engaging and urging the valve downwardly on the bar, the valve being movable downwardly by said bar into contact with the valve seat on said packer expander, to close the opening in said packer expander and expand the packer assembly, said bar being movable further downwardly relative to said valve to carry the lower end of the main duct beneath the valve and into communication with said passageway and to carry the upper end of the by-pass duct within said valve to close the upper end of said by-pass duct.

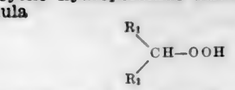
2,535,343
METHOD OF SYNTHESIZING GASOLINE AND THE LIKE
Harold V. Atwell, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application July 27, 1946, Serial No. 686,655
10 Claims. (Cl. 260—449.6)



1. In the catalytic conversion of synthesis gas comprising carbon monoxide and hydrogen into hydrocarbons, oxygen-containing compounds and the like wherein heat of reaction is removed by evaporation of a finely dispersed coolant in direct contact with the catalyst, the method which comprises contacting synthesis gas in a conversion zone with a catalyst under suitable conditions to effect conversion into desired compounds, removing an effluent comprising normally gaseous and normally liquid products of conversion from said conversion zone, diverting a portion of said effluent to a product recovery system, dividing another portion of said effluent into two streams, cooling one of said streams to remove normally liquid constituents, combining cooled uncondensed gas from said cooling treatment with hot gases containing higher boiling components of the other of said streams so as to effect condensation of higher boiling components of said other stream in the form of a fog, recycling said combined stream retaining fog therein to said conversion zone to supply said coolant, and retaining a recycle ratio of recycle gas to fresh feed between 0.5 to 1 and 4 to 1.

2,535,344
FLOTATION OF MINERALS WITH HYDROPEROXIDE FROTHERS
William T. Bishop and Eugene J. Lorand, Wilmington, Del., and John E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 26, 1949, Serial No. 129,691
9 Claims. (Cl. 209—166)

1. In the method of beneficiating ores by froth flotation, a step which comprises aerating a pulp of the ore containing a collector and a secondary cyclic hydroperoxide having the structural formula

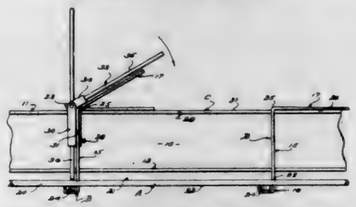


wherein R_1 is a cyclic radical and R_2 is a radical selected from the group consisting of alkyl and cyclic radicals.

2,535,345
FLOTATION OF MINERALS WITH HYDROPEROXIDE FROTHERS
William T. Bishop and Eugene J. Lorand, Wilmington, Del., and John E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 26, 1949, Serial No. 129,692
12 Claims. (Cl. 209—166)

1. In the method of beneficiating ores by froth flotation, a step which comprises aerating a pulp of the ore containing a collector and a secondary cyclic hydroperoxide having the structural formula >CH—OOH where C is a carbon atom in a carbon ring.

2,535,346
METHOD FOR APPLYING A FORM MEMBER TO A BEAM OR THE LIKE
Fredwill Bittner, Los Angeles, Calif.
Application October 18, 1948, Serial No. 55,126
4 Claims. (Cl. 153—2)

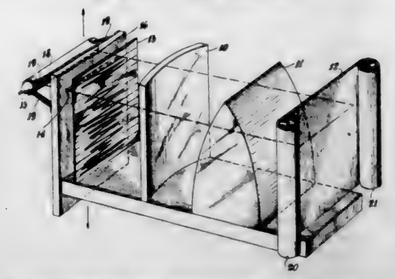


1. The method of applying a form member including an upstanding hanger to an elongate beam so said member is spaced beneath the beam including, arranging the hanger at one side of the beam with aligned body and head portions extending vertically and then bending it where the body and head adjoin so the head portion is moved to a horizontal position parallel with the beam, then twisting the body of the hanger to position the head transversely of the beam, and then bending the end of the head portion around the beam at the other side thereof.

2,535,347
AUTOMOBILE DOOR CONSTRUCTION
Edward L. Blackman, Greenwich, Conn.
Application May 3, 1947, Serial No. 745,705
10 Claims. (Cl. 296—44)

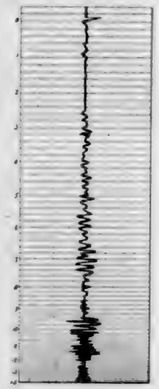
1. In a device of the character described, in combination with a door, a frame for said door, a hinge on which said door is mounted in said frame and a fixed top having a recess above the door, a top section of the door corresponding to said recess and hingedly mounted on the top of the door near one edge thereof and constructed and arranged to open and close said recess and to swing up and down when the door is opened and closed respectively, and laterally movable means mounted on said door operable by contact with the frame of the door and connected with said section for swinging said section, said means operable by the movement of said door on its hinge, said means comprising a member movable with respect to said door and operatively associated with said frame only when the door is closed or in proximity to its closed position in the frame therein.

2,535,348
OPTICAL RECORDING APPARATUS FOR SEISMIC WAVES
Albert J. Z. Caan, New York, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 8, 1949, Serial No. 80,155
2 Claims. (Cl. 346—33)



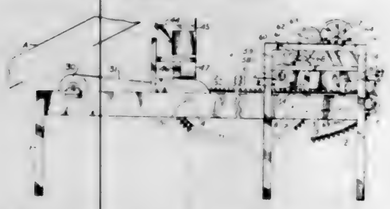
1. Apparatus for converting seismic recordings in terms of time to seismic recordings in terms of depth consisting of a lamp emitting light rays, a member attached thereto possessing a slit opening adjacent to said lamp, said lamp and said member being capable of reciprocation in a vertical direction to cause substantially parallel rays of energy to pass through said slit, a stationary seismic recording in terms of time aligned with said slit so as to receive said rays over its length during said reciprocation, a collimating lens for preventing the natural distortion of said rays passing through said seismic recording in terms of time, a distortion lens for distorting the rays thus corrected by said collimating lens from a time scale to a depth scale, said distortion lens

having a shape determined by the time-depth curve of the area being surveyed, stationary detection means to receive the rays after they have



passed through said distortion lens, said collimating lens and said distortion lens being positioned between said seismic recording in terms of time and said detection means.

2,535,349
BULK FEED FISH MACHINE
Andrew L. Christiansen, Willowbrook, Calif.
Application May 23, 1945, Serial No. 595,423
19 Claims. (Cl. 17—2)

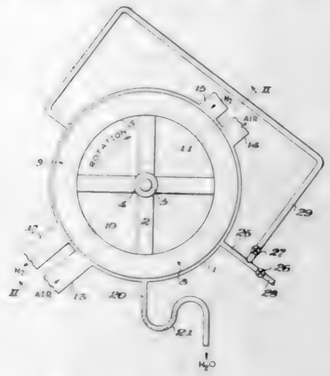


7. In a means of the class described, a fish processing unit having a conveyor provided with transverse pockets, means for supplying fish to said unit, said means comprising a receptacle containing water in which fish are adapted to float and provided with a discharge opening, a gate for the receptacle opening adapted to uncover the opening to permit the discharge of fish, and fish distributing means having a hopper for receiving water and fish suspended therein from said supply means, said distributing means connecting said supply means with the processing unit for directing fish to successive pockets of the conveyor and at opposite ends of the pockets.

2,535,350
RECOVERY OF CYCLOTRIMETHYLENE-TRINITRAMINE
Willard de C. Crater, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 10, 1948, Serial No. 20,362
4 Claims. (Cl. 260—248)

1. A process for the recovery of cyclonite crystals from explosive mixtures containing cyclonite crystals and at least one of the group consisting of mononitrotoluene, dinitrotoluene, trinitrotoluene, nitrocellulose, and tetryl which comprises mixing together the explosive mixture and a member of the group of solvent mixtures consisting of a mixture of ethyl ether and ethyl alcohol, a mixture of ethyl ether, ethyl alcohol, and chloroform, and a mixture of acetone with an aliphatic alcohol having from 2 to 4 carbon atoms; agitating the mixture of explosive and solvent at a temperature of from room temperature to the reflux temperature of the solvent until substantially all of the explosive mixture except the cyclonite crystals is in solution; and separating the cyclonite crystals from the solution.

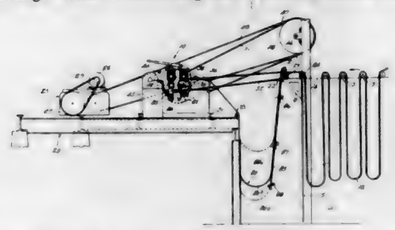
2,535,351
GAS PURIFYING APPARATUS
Duffer B. Crawford, Jeannette, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania
Application September 10, 1948, Serial No. 48,725
5 Claims. (Cl. 62—122)



1. In a rotary type heat exchanger having a conduit for a gaseous mixture that is to be cooled and purified by giving up heat to cold regenerative heat transfer material travelling through the conduit in a direction opposite to the flow of gaseous mixture so as to cool the mixture and condense low volatile impurities therein as a solid on the surface of the regenerative material, apparatus comprising a discharge pipe connected to the conduit at a place where the temperature of the adjacent regenerative material is at about the fluidifying temperature of a given low volatile impurity previously condensed thereon as a solid in colder regions of the conduit, whereby said condensed impurity having been carried by the regenerative material to warmer regions of the conduit adjacent to said pipe will be fluidified and at least some of the impurity in the fluid state will be discharged through said pipe.

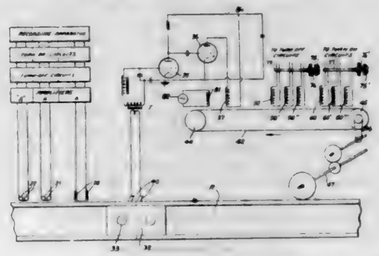
2,535,352
LOOP CONTROLLED VARIABLE-SPEED DRIVE
Donald A. Cumfer, Elmhurst, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application June 1, 1945, Serial No. 597,123
4 Claims. (Cl. 271—2.3)

1. In a coating machine for making roofing felt including a looper for freshly impregnated roofing felt and means for feeding said felt to a winding reel, the improvement which comprises the combination of means for positively driving said feeding means, means intermediate said looper and feeding means for forming a downwardly dependent slack loop of roofing felt, said means comprising a roller for impelling roofing felt into said slack loop, a differential gear and driving means connecting said feeding means and



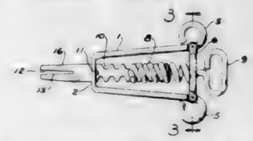
said impelling roller, means for angularly supporting one side of said slack loop, a plurality of spaced contact switches on said supporting means actuatable by contact with said supported side of said slack loop, and a motor controlled by said switches for operating said differential gear whereby to control the speeds of said impelling roller to vary the length of the roofing felt in said slack loop.

2,535,353
RAIL FLAW DETECTOR MECHANISM
Harcourt C. Drake, Hempstead, N. Y., and Waldemar I. Bendz, Ridgefield, and William E. Mesh, Brookfield, Conn., assignors to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application September 29, 1949, Serial No. 118,562
21 Claims. (Cl. 175—183)



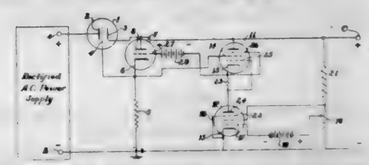
1. In a rail flaw detector car having driving means adapted to move the car over rails connected by joints, said car having means for energizing the rail with flux, means responsive to variations in said flux caused by defects in the rail, indicating means actuated by said flux responsive means, said responsive means responding also to variations in flux caused by the joint, means responsive to the rail joint and positioned in advance of said flux responsive means, a magnetizable member, means for driving said member by said car driving means, means whereby said second rail joint responsive means generates an electrical pulse in response to the joint, impressor means adapted to be energized by said pulse to magnetize said member, a receiver for picking up the magnetization of said member caused by the pulse, and means whereby the output of the receiver in response to the magnetization of the member by said pulse renders the indicating means ineffective.

2,535,354
CAN OPENER
John B. Flynn, Detroit, Mich.
Application September 20, 1948, Serial No. 50,074
4 Claims. (Cl. 220—52)



4. A tool for opening cans comprising a frame, a sliding key bar non-rotatably guided in the frame in longitudinal reciprocating movement, the said key bar being provided with a slot to engage a tab on the can, and means for reciprocating the key bar back and forth in the frame by the aid of devices affording a mechanical advantage, the said means comprising a wire screw coil journaled in the frame and notches on the key bar engaged with the coil to provide a screw action between the wire coil and the sliding bar, the said frame comprising a wire bent to U shape with a flattened bottom having a guide slot for the sliding notched key bar and a pair of arcuate channel strips welded to the ends of the U frame to form a journal in which the outer coil of the wire screw may turn but the screw is restricted against longitudinal movement.

2,535,355
VOLTAGE REGULATION AND SUPPLY
Darol K. Froman, Denver, Colo., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 8, 1944, Serial No. 567,285
5 Claims. (Cl. 323—22)



1. In a voltage regulating system, a supply circuit, a load circuit, a variable resistance electron discharge device having at least a cathode and control electrode interposed therebetween for controlling the voltage of said load circuit, a second discharge device and a resistance in series connected between terminals of said load circuit, means connecting the junction between said second discharge device and resistance to said control electrode whereby said last-mentioned discharge device operates as a cathode-follower, an electrical connection between the anode of the said cathode-follower and the cathode of said first discharge device, circuit means for varying the resistance of said cathode follower in accordance with voltage variations of said load circuit, whereby the effective resistance of said first discharge device is varied in accordance with the voltage on the cathode of said cathode-follower.

2,535,356
SOCKET RECEPTACLE HAVING BODY AND CLOSURE MEMBER THEREFOR
Charles E. Gilbert, New York, N. Y.
Application October 19, 1948, Serial No. 55,257
9 Claims. (Cl. 173—328)

1. A female electrical connector adapted to be connected to a two-wire line and comprised of

a hollow rigid body of insulating material having a top and bottom opening therein, and having two walls extending across and the length of the interior of said body in spaced parallel relation to each other and having longitudinally extending adjacently positioned slots formed between the adjacent faces thereof, a third wall positioned between and extending at right angles to said spaced walls, a pair of two legged electrical contact members, each having one leg thereof seated in a slot formed adjacent the walls of said body and when so seated adapted to contact and clamp in said slot the bare ends of the

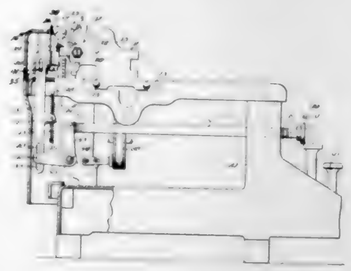
wires of a two-wire line, and having the other leg thereof projecting across the next adjacent slot formed between said spaced walls, and a closure member made of insulating material seated in the top opening of said body and having contact prong receiving openings therethrough which are aligned with the slots across which the projecting legs of said contact members extend, said closure member being provided with means which are engaged with said third wall in said body and which hold said closure member in locked position with respect to said body.

2,535,357
STABILIZED THERMOPLASTIC CELLULOSE ETHER COMPOSITION
Walter E. Gloor, Wilmington, Del., and George H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1948, Serial No. 51,321
10 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of p-tert-amylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said p-tert-amylphenol.

2,535,358
TYPEWRITER TABULATOR STOP MECHANISM
James F. Hoca, Woodstock, Ill., assignor to R. C. Allen Business Machines, Inc., Grand Rapids, Mich., a corporation of Michigan
Application March 15, 1946, Serial No. 654,621
14 Claims. (Cl. 197—179)

1. A typewriter embodying a shiftable carriage, a plurality of shiftable stops for the carriage, arranged lengthwise of and movable with and with respect to said carriage, means disposed adjacent the path of movement of the stops with the carriage for selectively rendering the stops active or inactive, the said means embodying vertically spaced alined fingers bodily movable with respect



to each other and between which fingers the stops are successively moved, and means common to the fingers for selectively and bodily shifting them, one with respect to the other.

2,535,359
STABILIZED THERMOPLASTIC CELLULOSE ETHER AND A PROCESS OF MAKING IT
William Koch and Alfred L. Rummelsburg, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 26, 1947, Serial No. 737,418
15 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether, a sulfur dioxide producing compound which is substantially colorless, which does not discolor under heat, which does not in itself function as an acid stronger than sulfurous acid and which releases sulfur dioxide at 200° C., in an amount at least about 0.005% and not more than 2% of the weight of the cellulose ether on the basis of the content of combined sulfur dioxide, and from about 0.5% to about 5% of para-cyclohexylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said para-cyclohexylphenol and said sulfur dioxide-releasing compound.

2,535,360
STABILIZED THERMOPLASTIC CELLULOSE ETHER COMPOSITION
William Koch, Wilmington, Del., and George H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1948, Serial No. 51,322
10 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of di-tert-amylphenol having the tertiary amyl groups substituted in the ortho and para positions relative to the hydroxyl group, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said di-tert-amylphenol.

2,535,361
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No Drawing. Application September 25, 1948, Serial No. 51,323
10 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of di-sec-amylphenol having the secondary amyl groups substituted in the ortho and para positions relative to the hydroxyl group, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said di-sec-amylphenol.

2,535,362
STABILIZED THERMOPLASTIC CELLULOSE ETHER COMPOSITION
William Koch, Wilmington, Del., and George H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1948, Serial No. 51,324
10 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of o-sec-amylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said o-sec-amylphenol.

2,535,363
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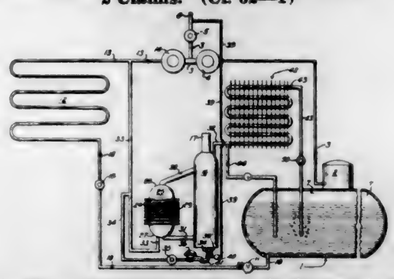
William Koch, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 25, 1948, Serial No. 51,325
10 Claims. (Cl. 106—176)

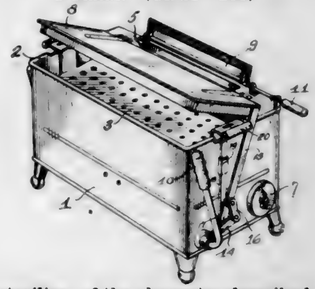
1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of p-sec-amylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said p-sec-amylphenol.

2,535,364
LIQUEFIED GAS STORAGE SYSTEM
Maurice W. Lee, Boley City, Okla.
Application July 26, 1946, Serial No. 686,376
2 Claims. (Cl. 62—1)



1. The combination with a tank for storing liquefied petroleum gas and with an outlet line for evaporated gas leading from the upper portion of the tank to a fuel gas service line, of: an evaporator having one end connected to said tank below the liquid level therein; a flow line leading from the other end of said evaporator to said service line; means for conveying gas from said flow line when the service line is closed; means for increasing the pressure of said gas; an oil bath for absorbing the gas; a unit for heating the gas entraining oil to cause the gas to be released from the oil at an increased pressure; means for converting said gas into liquid form; and means for returning the liquid to said tank.

2,535,365
STERILIZER
Charles Marshall, London, England
Application June 28, 1945, Serial No. 601,991
In Great Britain December 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires December 31, 1963
1 Claim. (Cl. 21—100)



In a sterilizer of the character described having a sterilizing chamber and an instrument tray adapted to be raised and lowered therein, a hinged cover to close the chamber, an arm secured to the side of said cover, a crank pivoted to the chamber, a hand lever projecting from said crank for actuating same, a link connecting the free ends of both the crank and arm, a vertically guided bar on both sides of the chamber for raising the tray, a second link connecting together the lower end of the bar and the free end of the arm, angularly bent handles on the sides of the tray, said handles projecting outside the chamber, said chamber being notched for allowing passage of the handles for closing the cover, the guided bar acting on said handles for raising the tray, and an extension on the hand lever extending to both sides of the chamber for operating simultaneously the cover and tray actuating mechanisms on both sides of the chamber.

2,535,366
ANTITHEFT SWITCH APPARATUS
Elmer J. Mead, Pittsburgh, Pa.
Application May 29, 1946, Serial No. 673,196
1 Claim. (Cl. 200—98)

An anti-theft device for vehicles comprising apparatus for opening the circuit between a storage battery and the ignition system of the vehicle, and a tamper-proof box containing and isolating said apparatus, said apparatus comprising a main switch in the battery circuit, a bar pivotally mounted in said box for closing and opening said switch, a spring connected to said bar for urging it toward switch opening position, an electromagnet for attracting said bar toward switch closing position, an arm pivotally mounted at one end in the box and extending across said bar, an armature pivotally mounted in the box, means

a hollow rigid body of insulating material having a top and bottom opening therein, and having two walls extending across and the length of the interior of said body in spaced parallel relation to each other and having longitudinally extending adjacently positioned slots formed between the adjacent faces thereof, a third wall positioned between and extending at right angles to said spaced walls, a pair of two legged electrical contact members, each having one leg thereof seated in a slot formed adjacent the walls of said body and when so seated adapted to contact and clamp in said slot the bare ends of the

wires of a two-wire line, and having the other leg thereof projecting across the next adjacent slot formed between said spaced walls, and a closure member made of insulating material seated in the top opening of said body and having contact prong receiving openings therethrough which are aligned with the slots across which the projecting legs of said contact members extend, said closure member being provided with means which are engaged with said third wall in said body and which hold said closure member in locked position with respect to said body.

2,535,357

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Walter E. Gloor, Wilmington, Del., and George H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 25, 1948, Serial No. 51,321

10 Claims. (Cl. 106—176)

1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether and from about 0.5% to about 5% of p-tert-amylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said p-tert-amylphenol.

2,535,358

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James F. Koca, Woodstock, Ill., assignor to R. C. Allen Business Machines, Inc., Grand Rapids, Mich., a corporation of Michigan

Application March 15, 1946, Serial No. 654,621

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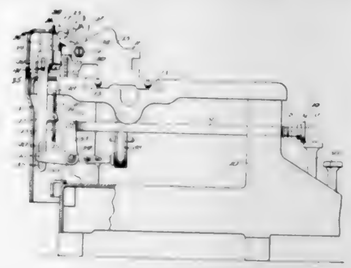

to each other and between which fingers the stops are successively moved, and means common to the fingers for selectively and bodily shifting them, one with respect to the other.

2,535,359

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William Koch and Alfred L. Rummelsburg, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

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1. A stabilized cellulose ether composition comprising a thermoplastic cellulose ether, a sulfur dioxide producing compound which is substantially colorless, which does not discolor under heat, which does not in itself function as an acid stronger than sulfurous acid and which releases sulfur dioxide at 200° C., in an amount at least about 0.005% and not more than 2% of the weight of the cellulose ether on the basis of the content of combined sulfur dioxide, and from about 0.5% to about 5% of para-cyclohexylphenol, said composition being stabilized with respect to viscosity and color during and after exposure to heat, light, oxidation, and weathering by virtue of the presence therein of said para-cyclohexylphenol and said sulfur dioxide-releasing compound.

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2,535,361
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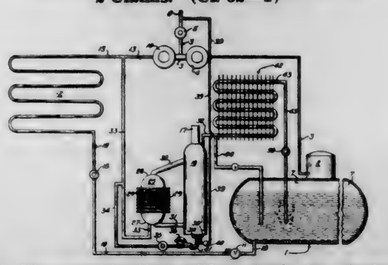
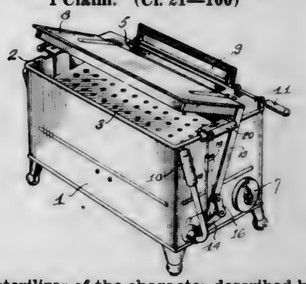
2,535,364
LIQUEFIED GAS STORAGE SYSTEM
Maurice W. Lee, Boley City, Okla.
Application July 26, 1946, Serial No. 686,376
2 Claims. (Cl. 62—1)



1. The combination with a tank for storing liquefied petroleum gas and with an outlet line for evaporated gas leading from the upper portion of the tank to a fuel gas service line, of: an evaporator having one end connected to said tank below the liquid level therein; a flow line leading from the other end of said evaporator to said service line; means for conveying gas from said flow line when the service line is closed; means for increasing the pressure of said gas; an oil bath for absorbing the gas; a unit for heating the gas entraining oil to cause the gas to be released from the oil at an increased pressure; means for converting said gas into liquid form; and means for returning the liquid to said tank.

2,535,365
STERILIZER
Charles Marshall, London, England
Application June 28, 1945, Serial No. 601,991
In Great Britain December 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires December 31, 1963
1 Claim. (Cl. 21—100)

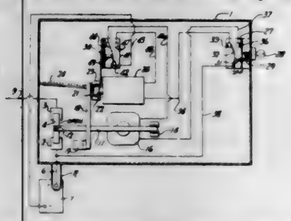


In a sterilizer of the character described having a sterilizing chamber and an instrument tray adapted to be raised and lowered therein, a hinged cover to close the chamber, an arm secured to the side of said cover, a crank pivoted to the chamber, a hand lever projecting from said crank for actuating same, a link connecting the free ends of both the crank and arm, a vertically guided bar on both sides of the chamber for raising the tray, a second link connecting together the lower end of the bar and the free end of the arm, angularly bent handles on the sides of the tray, said handles projecting outside the chamber, said chamber being notched for allowing passage of the handles for closing the cover, the guided bar acting on said handles for raising the tray, and an extension on the hand lever extending to both sides of the chamber for operating simultaneously the cover and tray actuating mechanisms on both sides of the chamber.

2,535,366
ANTITHEFT SWITCH APPARATUS
Elmer J. Mead, Pittsburgh, Pa.
Application May 29, 1946, Serial No. 673,196
1 Claim. (Cl. 200—98)

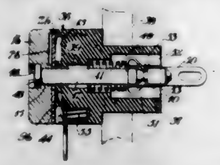
An anti-theft device for vehicles comprising apparatus for opening the circuit between a storage battery and the ignition system of the vehicle, and a tamper-proof box containing and isolating said apparatus, said apparatus comprising a main switch in the battery circuit, a bar pivotally mounted in said box for closing and opening said switch, a spring connected to said bar for urging it toward switch opening position, an electromagnet for attracting said bar toward switch closing position, an arm pivotally mounted at one end in the box and extending across said bar, an armature pivotally mounted in the box, means

urging one end of the armature into contact with the free end of said arm after the switch is closed to lock the arm in switch-closing position, a second electromagnet to move the armature away from the arm to permit said spring to move the bar to switch-opening position, an automatic switch having a movable contact arm adapted to be electrically connected to one pole of the battery and engageable alternately with a pair of fixed contacts each electrically connected to a different one of said magnets, a pin engaging said last-mentioned arm and actuated by the move-



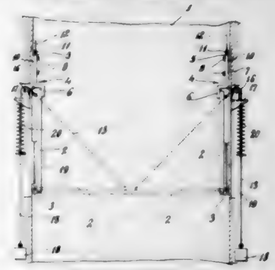
ments of said armature for shifting the contact arm of the automatic switch from one fixed contact to the other, the movement of said armature to arm-locking position when the first magnet is energized causing said pin to shift the automatic switch arm to open the circuit through the first magnet, and the movement of the armature in the opposite direction when the second magnet is energized causing said pin to shift the automatic switch arm to open the circuit through the second magnet, whereby neither magnet remains energized for more than a moment.

2,535,367
VARIABLE CONDENSER
Byron B. Minnium, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania
Application December 21, 1945, Serial No. 636,455
14 Claims. (Cl. 175—41.5)



1. In a variable condenser, a stator element comprising a dielectric disk having one face finished flat and a conductive plate disposed on the opposite face thereof, a rigid rotor element having on a surface thereof a flat conductive portion comprising a rotor electrode, said surface of said rotor element being disposed in frictional contact with said finished face of said stator element and rotatable with respect thereto, so that said rotor electrode electrostatically cooperates with the conductive plate of said stator element, said disk being of brittle material and so thin as to be subject to fracture if bent, a substantially rigid insulating backing member for said disk, and pressure means cooperating with said backing member for urging said rotor element and disk toward each other, the surface of said rotor element having an effectively continuous circular frictional engagement with at least the central portion and the periphery of said disk, whereby pressure is applied uniformly from said rotor element and from said backing member to said disk at all positions of adjustment of said rotor element.

2,535,368
DRAFT TRAP
Sterling E. Norcross, Bloomfield, N. J.
Application November 21, 1946, Serial No. 711,367
1 Claim. (Cl. 189—50)

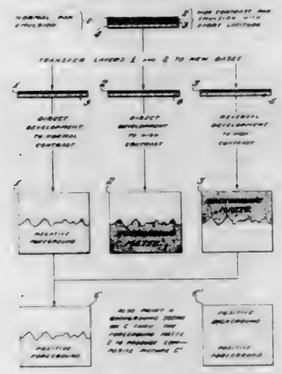


In combination with a vertical shaft having opposed side walls formed with vertically extending pockets, plates mounted against said side walls and covering said pockets, doors hinged to said walls for vertical movement from a raised position close to the walls to a closed position in which they extend towards each other in closing relation to the shaft with their free ends meeting midway the width of the shaft, latches carried by said plates and movable into and out of position to engage said doors and releasably hold the doors in the raised position, brackets extending from said plates into said pockets, pulleys carried by said brackets and disposed over the brackets opposite openings in the plates, helical springs carried by and extending downwardly from said brackets and disposed vertically in the pockets, cables attached to said doors and passing through the openings in the plates and about said pulleys and downwardly through the brackets and the springs towards lower ends of the pockets, and weights carried by lower ends of said cables and constituting counterbalance weights for said doors and serving to engage lower ends of the springs and compress the springs and thereby check closing movement of the doors when pull is exerted upon the cables by the doors during closing movement of the doors.

2,535,369
DEVICE RESPONSIVE TO THE UNWINDING OF A WEFT THREAD
Henri Pelcé, Paris, France, assignor to Société dite: Saint Freres, Societe Anonyme, Paris, France
Application April 5, 1948, Serial No. 18,977
In France January 31, 1948
3 Claims. (Cl. 139—371)

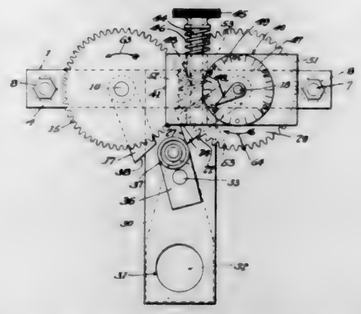
1. In a circular loom, a device responsive to the unwinding of the weft thread from a cop contained in a shuttle, which comprises a small-power electric generator carried by the shuttle and actuated by the weft thread as the same unwinds from the cop so that the current generated will be cut off whenever the thread ceases to unwind, and means to stop the loom whenever the current thus generated is cut off.

2,535,370
CINEMATOGRAPHIC MATTE PRINTING
Wadsworth E. Pohl, Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine
Application September 28, 1945, Serial No. 619,121
5 Claims. (Cl. 88—16)



1. In the art of matte printing in which a composite picture is printed from separate records of the foreground and background respectively, the method which comprises exposing a film having a plurality of emulsion layers to the foreground and background parts of a scene in which one part reflects much more light than the other to form latent images in different layers respectively, separating the layers by transferring a layer to an individual support, developing one layer to normal contrast, developing one layer to high contrast to produce a matte, separately developing another layer to high contrast by reversal development to produce a matte, and printing the composite picture by blocking out the parts with the respective mattes.

2,535,371
TIMING MECHANISM
Theodore Rapp, Los Angeles, Calif.
Application December 9, 1946, Serial No. 715,023
9 Claims. (Cl. 74—25)



1. A timing mechanism as disclosed including a drive shaft, a driven shaft, a drive gear secured on said drive shaft, a driven gear turnable on said driven shaft in mesh with said drive gear, an actuating arm secured on said driven shaft, a timing device connected to said driven gear and to said driven shaft for adjusting the position of the actuating arm on said driven shaft with relation to said driven gear and to the actuating arm on said drive shaft, an actuated shaft, an actuated arm secured on said actuated shaft, and a roller on said actuated arm to be engaged successively by said actuating arm on said driven shaft and by said actuating arm on said drive shaft.

2,535,372
MULTIPLE BULB FLOODLIGHT MOUNTING FOR CAMERAS
Gerald Schaeffer and Sam Schaeffer, Chicago, Ill.
Application August 25, 1947, Serial No. 770,542
3 Claims. (Cl. 240—1.3)

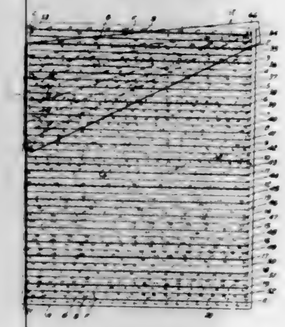
3. A multiple bulb floodlight mounting for cameras adapted to provide variable lighting for indoor photography comprising a stationary member, said stationary member having means for removably holding a camera thereon, a pair of movable arms having their ends pivotally attached to said stationary member at opposite ends thereof, each of said movable arms adapted to be pivoted independently from the other of said movable arms through an arc of substantially 180° from vertically upward to vertically downward with respect to said stationary member, means for fixedly holding each of said movable arms at any position within said arc to provide any desired angle of photographic lighting, each of said movable arms having an electric light socket adapted to receive a photographic floodlight bulb, said sockets adapted to face the same direction at all times, regardless of the positioning of said arms, electric wiring contained within said stationary member and movable arms to operate the floodlight bulbs in said sockets and means for connecting said wiring to a suitable source of electrical supply.

2,535,373
MOLDED OBJECTS
Howard E. Shearer, Swarthmore, and Albert R. Martin, Springfield, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 8, 1944, Serial No. 562,568
1 Claim. (Cl. 18—48)

A method of making molded articles which are convertible by mechanical working from a condition in which the surfaces of the individual fibers are not discernible under ordinary conditions and the article has the appearance of a unitary transparent film to a condition in which the surfaces of the individual fibers in at least a portion of the article are discernible under ordinary conditions and the article has the appearance of a unitary film which is of greater light-reflective capacity and reduced light-transmitting capacity at the portion occupied by the fibers the surfaces of which are discernible under ordinary conditions than at any portion thereof occupied by fibers the surfaces of which are not discernible under ordinary conditions, the steps comprising

providing fibers of a nonhomogeneous polymeric thermoplastic material consisting of a mixture of polymers having different molecular weights and softening temperatures, forming the polymeric fibers into a web, molding the web to desired predetermined shape by heating the fibers in the web to a temperature in the neighborhood of the lower limit of the range between the softening temperatures for the mixed polymers comprising the fibers to thereby soften the fibers, while subjecting the web to pressure such that the softened fibers are forced into close proximity to each other to produce a web in which the distances between the individual fibers approach intermolecular distances, cooling the web while retaining it under pressure to set the fibers in the molded condition, subjecting the transparent article thus obtained to mechanical working to convert at least some of the fibers to a condition in which the surfaces thereof are discernible under ordinary conditions, and fusing any fibers not so converted to permanently set them in a condition in which the surfaces thereof are not discernible under ordinary conditions.

2,535,374
CALCULATOR
Samuel Skolnik, Los Angeles, Calif.
Application June 15, 1946, Serial No. 676,871
6 Claims. (Cl. 235—61)

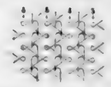


5. A chart having a plurality of sectional, uniformly spaced parallel scale lines of equal lengths, the ends of the lines falling on a common straight line perpendicular to the parallel scale lines; there being two sets of scale divisions for each line, the first of said scale divisions having numbered spacings corresponding in length from the beginning of the first line to the logarithm of the number; the successive scale sections forming a continuous uninterrupted logarithmic scale; the other of said scale divisions having numbered logarithmic scale lines, the numbers thereon corresponding to the squares of the numbers of the first scale divisions; there being another set of sectional scale lines equally spaced between the lines of the first set and subdivided and numbered in accordance with said other scale divisions, the beginning point of the first scale section of said second set corresponding to the center of the first sectional line of the first set; and a pointer member having a point of origin and a series of spaced curves forming a constant angle with any line drawn from the origin, the alternate curves dividing a line from the origin into equal parts, the origin and the pointer lines being adapted to overlie selected scale divisions.

2,535,375
PLIERS
Harold W. Stark and Roy A. Grant, Marinette, Wis.
Application November 17, 1947, Serial No. 786,358
2 Claims. (Cl. 32—62)

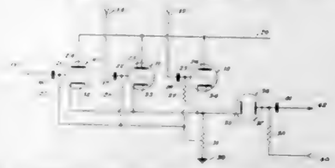
1. A pliers comprising a pair of elongated handles, means pivotally securing the outer ends of said handles together, a pair of elongated clamping members having opposed clamping jaws on the outer ends thereof, means pivotally securing the inner ends of said members to said handles in offset relation with respect to said first named pivot means, and adjustable fulcrum means including a bolt of adjustable effective length extending through said members outwardly of the inner ends thereof and in the plane of swinging of said clamping members whereby rocking of said handles toward each other will move said clamping jaws toward each other, and whereby adjustment of the effective length of said bolt will vary the limits of movement of said clamping jaws in both the opening and closing directions relative to each other.

2,535,376
TWISTED YARN-LIKE STRUCTURE AND METHOD FOR PRODUCING IT
Wirt L. Thompson, Jr., Fairfield, Conn., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application November 30, 1948, Serial No. 62,605
22 Claims. (Cl. 57—143)



1. A yarn-like structure comprising a tricot knit fabric having from one to four central wales extending longitudinally of the structure and having yarn loops extending laterally from the central portion of the fabric, said fabric unit being twisted at least one turn per inch.

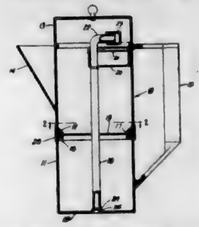
2,535,377
COINCIDENCE CIRCUIT
Ernest William Titterton, Harwell, Didcot, England, assignor to the United States of America as represented by the United States Atomic Energy Commission
Application October 20, 1948, Serial No. 55,621
2 Claims. (Cl. 250—27)



1. A multiple coincidence circuit for receiving signals coincident in time and for producing a large single signal, comprising at least two electron discharge devices each including an anode, cathode and control electrode, said cathodes being connected to each other and to a common cathode resistive load, said cathode resistive load being divided to furnish bias potential for said

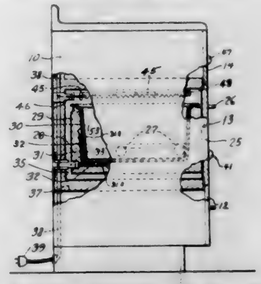
control electrodes, means for impressing said bias potential on said control electrodes, input means applied to each of said control electrodes, output means including a diode having an anode and a cathode, said cathode being connected to said first mentioned cathodes; a positive potential source connected to said diode anode whereby the simultaneous impression of negative pulses on all of said input means decreases the positive potential on said cathode and thereby results in the creation of an output pulse.

2,535,378
COFFEE MAKER
John Vinton, San Francisco, Calif.
Application November 1, 1948, Serial No. 57,747
2 Claims. (Cl. 99—314)



1. In a coffee maker, a vessel having a bottom, sides and a removable cover, an annular shoulder in the sides spaced from the bottom of the vessel and lugs above the sides of the shoulder; and a water-transfer unit consisting of a disc adapted to seat on the shoulder to divide the vessel into upper and lower chambers and a plurality of deformable spring fingers adapted to engage the lugs upon rotation of the disc to hold the disc in a water-tight relation to the shoulder and to permit the disc to move with respect to said vessel to release a pressure in excess of that required to flex said spring fingers from said lower chamber, a continuous tube passing through said disc and extending on each side thereof to provide the only communication between the lower and the upper chamber; a foraminous coffee holding means supported on said tube to receive below the upper end of said tube water issuing from the upper end of said tube for gravital flow through said foraminous coffee holder.

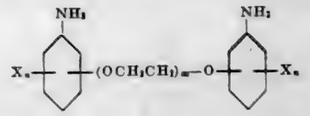
2,535,379
ELECTRIC COOKING UNIT
Richard F. White, Salem, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application December 30, 1944, Serial No. 570,581
4 Claims. (Cl. 219—35)



1. In a kitchen cabinet, an electric roasting and broiling unit comprising a drawer slidably mounted in said cabinet and including a removable food receptacle in said drawer, a heating unit for roasting embedded in one wall of said drawer, a broiling heating unit positioned in said cabinet above said drawer in a manner not to interfere with the movement of the drawer in and out, and a drawer cover and broiling rack pan supported alternatively at the top of said drawer for the respective uses of said device.

2,535,380
THERMOSETTING FORMALDEHYDE RESIN MODIFIED WITH A POLYETHYLENE GLYCOL BIS-(AMINOPHENYL) ETHER
Kenneth H. Adams, Fenton, and George L. Doelling, St. Louis, Mo., assignors to Mississippi Valley Research Laboratories, Inc., St. Louis, Mo., a corporation of Missouri
No Drawing. Application July 20, 1949, Serial No. 105,890
33 Claims. (Cl. 260—45)

5. A shaped article which comprises an inert filler and a substantially insoluble heat-hardened resin comprising the product of reaction under heat and in the presence of a substance selected from the group consisting of formaldehyde and a formaldehyde-yielding substance of a heat-hardenable resin composition selected from the group consisting of phenolformaldehyde, melamineformaldehyde, ureaformaldehyde, and mixed melamine-ureaformaldehyde, and a diamine having the formula:

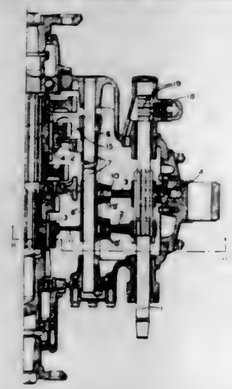


in which X is selected from the group consisting of chlorine and bromine, m is an integer greater than 3 and not more than approximately 150, and n is an integer including zero and not greater than 3.

2,535,381
CHANGE-SPEED MECHANISM
Alfred Andrews, Penn, Wolverhampton, England, assignor to Guy Motors Limited, Fallings Park, Wolverhampton, England
Application August 20, 1946, Serial No. 691,804
In Great Britain August 29, 1945
2 Claims. (Cl. 74—473)

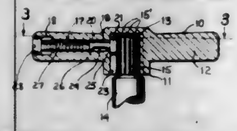
1. Change speed operating mechanism for gearing comprising in combination a gear box casing; a plurality of guide members mounted in said casing, said guide members being parallel to one another and in the same plane; a plurality of members slidably mounted on said guide members; gear striking forks connected to said slidably mounted members; operating members and selector members projecting from each of said slidably mounted members; a shaft slidably and rotatably mounted in said gear box casing; a selector plate mounted on said shaft for rotary movement therewith, said plate having a single gap therein and being disposed for engagement with the selector members not in axial alignment with said gap so that only a selector member disposed in axial alignment with said gap can pass therethrough; means maintaining said plate in fixed axial position in said casing; and a single operating arm secured to said shaft for axial movement and rotary

movement therewith and in alignment with the gap of said plate to engage the operating mem-



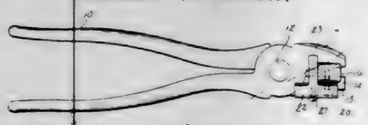
bers of the selected slidably mounted member for effecting the required gear change.

2,535,382
HANDLE
Herman Bachli and Harry S. Shapiro, Chicago, Ill., assignors to Chicago Specialty Mfg. Co. Inc., Chicago, Ill., a corporation of Illinois
Application April 22, 1949, Serial No. 89,084
1 Claim. (Cl. 287—53)



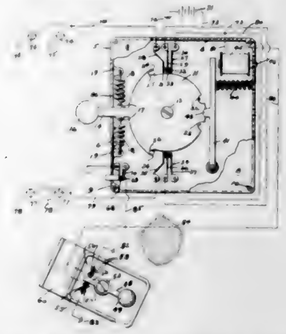
For a combination comprising a handle having a central hub and a plurality of arms radially extending from said hub with one of said arms provided with a tapered bore, the hub of said handle being provided with a socket communicating with the inner end portion of the bore, a wedge block having a shank slidably arranged in the inner end portion of the bore and provided with an enlarged head having a V-shaped groove formed therein, said shank being provided with a groove extending longitudinally of the long axis of the shank, said shank providing at one end of said groove a stop lug, a complementary stop lug provided by said hub and extending into the groove of the shank, and a clamping bolt threaded into said bore into bearing engagement with respect to said shank.

2,535,383
DOVETAIL TOOL
William A. Barnes, Utica, N. Y., assignor to Utica Drop Forge & Tool Corporation, a corporation of New York
Application October 5, 1945, Serial No. 620,584
4 Claims. (Cl. 30—229)



1. In a tool having co-acting jaw members for partially cutting a blank from sheet material to form a dovetail, the improvement of shearing elements for said jaws, comprising, a first jaw member having a die holding top surface and a bottom surface including a guide clamp surface and a die stamp surface in stepped relationship with an elongated slot extending from the die holding top surface to the die clamp surface, a die member having a first channel therein of diverging dovetail longitudinal configuration comprising a female shearing member and a second channel therein to form a slip fit with said first jaw member, screw means extending through the elongated slot of the first jaw member and engaging the die member and the said die clamp surface to clampingly hold said die member on said first jaw die holding surface; a second jaw member having a diverging dovetail longitudinal formation comprising a male shearing member, said male and female shearing members having cooperating shearing surfaces on the diverging sides thereof, said die member being shiftable by relative longitudinal movement of said die second channel upon said first jaw member to shift the die in relation to said second jaw member and maintain said shearing surfaces in shearing relationship, and stop means comprising substantially U-shaped member having an elongated slot at the bottom thereof, screw means extending through the elongated slot and movably clamping said guide to said first jaw guide clamp surface, said stop member being movable in relation to said first jaw member and extendable past said die holding screw means.

2,535,384
INERTIA CUTOFF SWITCH FOR VEHICLES
Kenneth R. Batt, North Tonawanda, N. Y.
Application June 2, 1949, Serial No. 96,683
13 Claims. (Cl. 171—97)



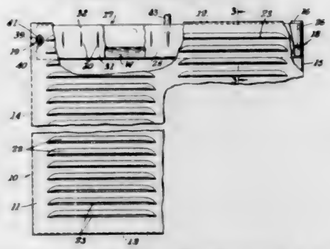
1. An inertia cut-off switch for a vehicle signal light system comprising a plurality of switches adapted for operative connection to said light system, a manual circuit-closer arranged to operate the switches, spring means normally biasing the circuit-closer in open circuit relation relative to the switches, latch means adapted to engage and maintain the circuit-closer in circuit-closing relation with the switches against the energy of the biasing means, an auxiliary circuit including an electro-magnet for releasing the latch means from its engagement with the circuit-closer and a pair of spaced apart circuit-closing switches connected to the first mentioned switches, and a dependent inertia member freely mounted for oscillation between the spaced apart switches, said inertia member being responsive to the turning movement of the vehicle to engage one of the spaced apart switches to close the auxiliary circuit and energize the electro-magnet, whereby the latch means is released and the circuit-closer is surrendered to the energy of the biasing means to be returned to its normal open circuit relation.

2,535,385
DIRIBOFLAVIN ESTER OF PYROPHOSPHORIC ACID AND ITS PREPARATION
Philip J. Breivogel, Glen Ridge, N. J., assignor to White Laboratories, Incorporated, Newark, N. J., a corporation of New Jersey
No Drawing. Application January 9, 1947, Serial No. 721,159
16 Claims. (Cl. 260—211.3)

1. The process which comprises reacting riboflavin and pyrophosphoric acid in an acidic medium to form a phosphorylated riboflavin.

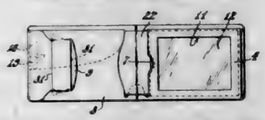
16. A compound selected from the group consisting of diribofiavin pyrophosphoric acid ester and the disodium salt thereof.

2,535,386
EVAPORATIVE COOLER
Richard N. Brookins, South Gate, Calif., assignor to Bryant Essick, Los Angeles, Calif.
Application May 21, 1945, Serial No. 596,579
8 Claims. (Cl. 299—58)



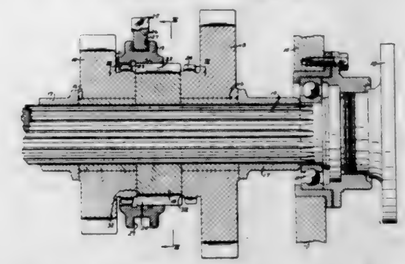
2. An evaporative cooler including a housing having a front wall with an opening and defining the front of the cooler and spaced sides adjoining and extending rearwardly from the front wall, an elongate water distributing trough behind the front and between the sides of the housing, means fixing one end of the trough to one side of said housing, and means for adjusting the position of said trough with relation to said housing including a releasable clamp member engaged through the opening in the front wall of said housing with a part operable from the exterior of the housing and a part engaging the trough at a point spaced a substantial distance from said end.

2,535,387
BILLFOLD ADAPTED TO RECEIVE A REMOVABLE PASS CASE
Douglas J. Broughton, Springfield, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application August 17, 1949, Serial No. 110,729
1 Claim. (Cl. 150—38)



In a billfold of the type having a rear wall and a front wall, the latter including spaced panel members extending from the end portions of the lower edge of the rear wall, said panel members being folded upwardly onto the rear wall and being provided at their upper edges with panel flaps folded downwardly between the adjacent panel member and the rear wall, end-flaps extending from each end edge of the rear wall, the end-flap at one end of the billfold being folded onto the outer face of the adjacent panel and secured thereto, the end-flap at the opposite end of the billfold being folded freely between the adjacent panel and the panel flap carried thereby; a bridging member having its end portions extending between the panel members and their respective panel flaps, that end of the bridging member adjacent the secured end-flap being provided adjacent its upper outer corner with a U-shaped cut forming a downwardly extending tongue, the adjacent panel flap being provided with a horizontal slit into which said tongue extends, that end of the bridging member adjacent the free end-flap being reduced in width to form a narrow headed tongue, the free end-flap being formed with a transverse slot in which the head of said tongue is interlocked.

2,535,388
TRANSMISSION COUPLING DEVICE
George E. Burks, John W. Bridwell, George T. Lundberg, and Alfred W. Sieving, Peoria, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application January 22, 1947, Serial No. 723,514
7 Claims. (Cl. 192—67)

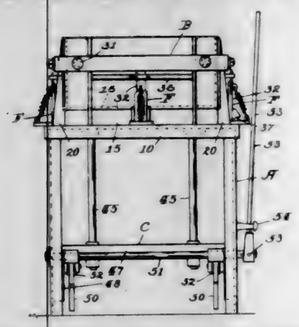


1. In a transmission which comprises a shaft, a transmission gear rotatable thereon, a coupling member fixed thereon, and a coupling collar for connecting the coupling member and transmission gear, interengageable helically formed clutch teeth on the coupling collar and the transmission gear with the helix angle inclined inwardly away from the leading ends of the teeth to prevent accidental separation thereof.

2,535,389
MACHINE FOR MOLDING CONCRETE BLOCK, BRICK, OR TILE
Audley R. Canfield, Lake Elmo, Minn.
Application March 8, 1948, Serial No. 13,656
2 Claims. (Cl. 25—41)

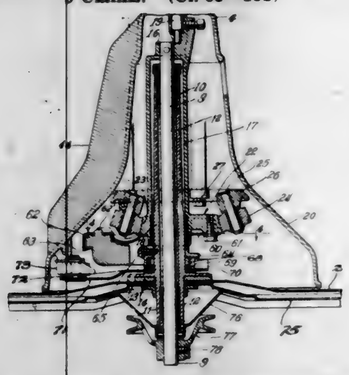
1. In a machine for molding articles, the combination with a supporting frame, a mold carried thereby comprising a stationary back, laterally extended pintles at opposite end portions of said back, a removable mold board, front and end plates hinged and removably connected to said frame above said mold board so as to tilt and spread outwardly and release a molded article from within, and a lock yoke for engaging and holding said front and end plates respectively of different lengths in closed mold forming position above said mold board, said lock yoke having a pair of side arms and a plurality of longitudinally

spaced pairs of pintle receiving key slots in the outer end portions of said arms whereby the lock yoke can be readily detached and selectively hinged on said stationary back so as to engage



and hold substitute side and end mold plates varying in length and to permit replacement of front and end plates suitable to produce molded articles varying in size.

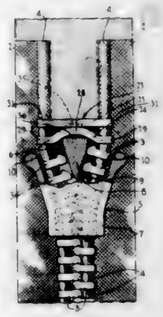
2,535,390
CLOTHES-WASHING MACHINE
John A. Castricone, Peoria, Ill., assignor to Altorfer Bros. Company, Peoria, Ill.
Application August 20, 1946, Serial No. 691,688
9 Claims. (Cl. 68—131)



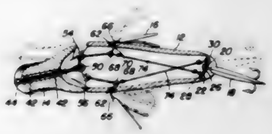
1. In a washing machine, the combination with a receptacle adapted to contain a body of liquid for washing fabrics therein, a drive shaft, a dasher in the receptacle, means journaling the dasher on the drive shaft for rotation about an axis offset eccentrically of the axis of the drive shaft for movement of the dasher bodily through an orbit upon rotation of the drive shaft, an arm connected with the dasher and extending laterally of the drive shaft approximately in the opposite direction from the direction of the offset relation of the dasher relative to the drive shaft, and a counterweight carried by said arm.

2,535,391
END STOP FOR SLIDE FASTENERS
Frank W. Clarke, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 23, 1946, Serial No. 656,691
6 Claims. (Cl. 24—205.11)

1. In combination, a series of interlocking fastener elements arranged along the opposed edges of a pair of stringer tapes, a slider movable longitudinally of said elements for engaging and disengaging the same, said slider comprising a pair of spaced-apart wing portions connected together at one end by a neck portion so as to define an interior substantially Y-shaped channel, a bridge top stop extending between the opposed edges of said stringer tapes at a point beyond the endmost fastener elements, said stop having means arranged at each end thereof for attaching the same to the opposed edges of said stringer tapes, and means carried by said slider engaging said top stop so as to prevent any hinging movement of said top stop relative to said slider consisting of a pair of spaced-apart substantially parallel portions extending forwardly of the slider adjacent the neck portion thereof so as to define a transverse slot therebetween in which the stop is disposed when the slider is moved to its fully closed position with the extending portions straddling said stop.

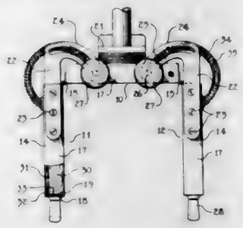


2,535,392
MINNOW FISH BAIT
Charles F. Dale, Mayhill, N. Mex.
Application October 31, 1949, Serial No. 124,603
3 Claims. (Cl. 43—26.2)



1. An animated artificial fish lure comprising a body portion, tail, head and fins, all configurated to simulate a fish, means for attaching said head to a line, and means operatively interconnecting said head, tail and fins whereby said head, tail and fins wiggle in unison in response to a side pull on said head, said means including a first vertical pin extending through said body portion at its front end and receiving said head at its ends for pivotal movement of said head in a horizontal plane, a second vertical pin extending through the rear end of said body portion, said tail being pivoted on said second pin for pivotal movement in a horizontal plane, and link means interconnecting said head, tail and fins.

2,535,393
THERAPEUTIC LAMP AND BAKER
Peter Charles Daugert, Wilkes-Barre, Pa., assignor to Infra Appliances Corporation, Wilkes-Barre, Pa., a corporation of Delaware
Application February 24, 1948, Serial No. 10,389
1 Claim. (Cl. 219—34)

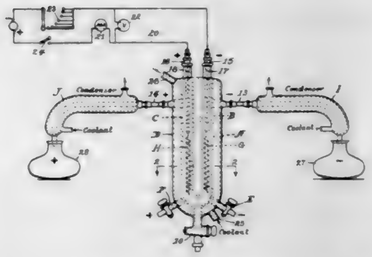


A radiant heat oven for therapeutic treatment of portions of the human body comprising, casing means formed of a rectangular central section adapted to be suspended over the area to be treated and a pair of lateral rectanguluar sections, each of said sections housing radiant heating means comprising a heat transmitting glass plate of substantially the size of said section disposed with its inner surface in the plane of the inner surface of said section and having means coated over the rear surface thereof operative to generate on electrical energization and uniformly radiate heat from the area subtended by the glass plate inwardly of said casing section, hinge means securing said lateral sections to said central section to permit the inner surfaces of said casing sections to be disposed substantially equidistant from the incident surface of the area of the body to be treated to radiate heat uniformly over said incident surface, a coupling arm secured to each of said lateral sections having a sector extending adjacent a side of said central section formed with an arcuate slot therein centered on said hinge means and extending over the angular range of movement of said lateral sections, and clamping bolts threadedly mounted in the side of said central section and extending through each of said slots operative to manually clamp said coupling arm and its associated lateral section in adjusted angular relation with said central section.

2,535,394
SHOE FOR HUNTING DOGS
Hosea B. Davis, San Antonio, Tex.
Application March 25, 1949, Serial No. 83,419
2 Claims. (Cl. 36—2.5)

1. A shoe for a hunting dog comprising a casing of a flexible non-elastic material adapted to snugly receive the foot and to engage around the lower portion of the leg, said casing having an open toe portion adapted to expose the two front claws, a pad secured to the outer side of the bottom portion of the shoe and adapted to be disposed beneath the dog's foot, said pad being formed of a flexible material, said casing including an upper portion having a slit therein extending longitudinally thereof from near the toe opening to the opposite open upper end of the shoe, and a slide fastener connected to said upper portion of the casing for closing the opening formed by the slit, the forward part of the slit portion of the casing being disposed above and extending to adjacent the forward end of the pad.

2,535,395
ELECTROPHORETIC APPARATUS FOR RESEARCH
Alfred Dinsley, La Canada, Calif.
Application November 4, 1947, Serial No. 784,065
1 Claim. (Cl. 204—299)

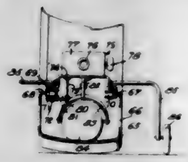


Apparatus for subjecting pathological specimens in solution to electrophoresis, which consists of the following elements in combination: a U-tube having a pair of connected, vertically disposed arms for holding said solution, solution inlets entering the upper portions of each of said arms, a concentric cooling jacket hermetically sealed about said U-tube, cooling fluid inlet means near the bottom of said cooling jacket, cooling fluid outlet means near the top of said cooling jacket, a positive electrode exposed in the solution contained in one of said arms, a negative electrode exposed in the solution in the other of said arms, means for connecting the electrodes to a source of direct current so that the solution in said U-tube is subjected to electrophoresis and fractionation between said arms, valved outlet conduits near the lower portions of each arm and passing through said cooling jacket by means of which fractions of the solution in said arms are removed separately from the bottom of each of said arms, a common-drain, valved outlet conduit connected with the lower median line of the U-tube and passing through said cooling jacket for completely evacuating said tube, egress ducts near the upper portions of each of said arms extending from said tube outwardly through the walls of said cooling jacket for egress of gases produced during electrophoresis, and condensers connected with each of said egress ducts effective to remove from each arm and to condense and collect separately therefrom further fractions in liquid form.

2,535,396
WHEELED TOY
Aimee J. Dube, Troy, N. Y.
Application December 6, 1946, Serial No. 714,572
3 Claims. (Cl. 46—100)

1. A toy comprising an annulus and a traveling unit at the inner circumference of the annulus for imparting rotary motion to the annulus, said annulus being provided with spaced coplanar flanges at its inner circumference, said

unit being provided with rollers for riding said flanges, said rollers being circumferentially



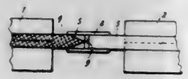
grooved to receive the edge portions of said flanges.

2,535,397

METHOD FOR ELECTRICALLY INTERCONNECTING WIRES, CABLES, TUBES, PLATES, AND OTHER METALLIC ELEMENTS

Gabriel Victor Alphonse Duch and Marie Adrienne Duch, nee Bernelin, Lyons, France

Application April 5, 1949, Serial No. 85,602
In France April 8, 1948
3 Claims. (Cl. 219—12)



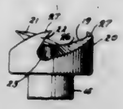
1. A method for electrically butt-soldering copper and aluminum conductors comprising the steps of cutting the end portion of one conductor so as to provide a reduced contact interface, interposing between said end portion and the end portion of the other conductor a disc of tin solder, maintaining said end portions in contact with said disc, protecting said disc and the end portions of said conductors from the influence of outer air, and causing a low voltage electric current of high intensity to flow through said disc and said conductors during a time sufficient to bring about a coalescence along said interface while holding said disc and said conductors together under pressure, so as to form a copper-tin-aluminum ternary alloy in the soldering zone.

2,535,398

BOLT POINTER

William Economous, Chicago, Ill., assignor of one-fourth to Lee M. Reibstein and one-fourth to Harvey W. Rupnow, both of Chicago, Ill.

Application April 20, 1946, Serial No. 663,650
2 Claims. (Cl. 29—103)



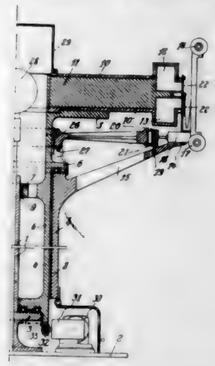
1. A pointing tool for bolts and the like, comprising a cylindrical cutter having an end face formed with a plurality of identically shaped cutting blades, each having a cutting edge extending radially from the axis of said end face to the periphery of said end face and curving in a cutting direction, the points on each curve projecting progressively further forward axially as said points approach said periphery, said end face sloping away from each end axially rearwardly on either side thereof into axially extending grooves for the escape of cuttings.

2,535,399

METHOD AND MEANS FOR PRINTING PHOTOGRAPHIC OR KINEMATOGRAPHIC FILMS

Ferdinand Eichinger, Asnieres, France

Application November 22, 1946, Serial No. 711,550
In Luxemburg November 23, 1945
6 Claims. (Cl. 95—75)



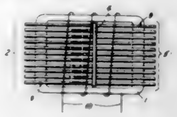
1. A printing machine for photographic and kinematographic films comprising a rotary hollow drum, a source of light inside same, an at least part cylindrical optical member lying substantially in a plane perpendicular to the drum and passing through the source of light, means for engaging the films to be printed over the periphery of the drum in front of the optical element, a feed and a take up spool for said films in front of the corresponding ends of the passage thereof in front of the optical element, means whereby the rotation of the drum controls the unwinding of the film to be printed from one spool to the other in at least one selected direction, a series of couples of feed and take up spools arranged on opposite sides of the path of the film to be printed in front of the optical element and adapted to provide for the unwinding and rewinding of corresponding unimpressed films in front of corresponding short lengths of the film to be printed and means whereby the rotation of the drum provides for the operation of said series of couples of spools.

2,535,400

MULTICONTACT DRY REED RELAY

Walter B. Ellwood, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 25, 1949, Serial No. 112,190
6 Claims. (Cl. 200—104)



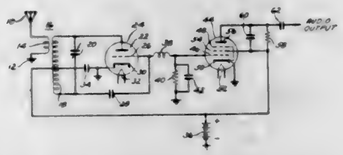
2. A multicontact relay comprising a plurality of magnetic reed contacts sealable to a formable insulating material, a base plate of said insulating material having preformed ridges for spacing and aligning said reed contacts, and a cover plate of said insulating material hermetically sealed to said base plate, said reed contacts being within the combination of said base plate and said cover plate.

2,535,401

SUPERREGENERATIVE RECEIVER

Richard Carlisle Emerson, Glendale, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application April 13, 1944, Serial No. 530,894
10 Claims. (Cl. 250—20)



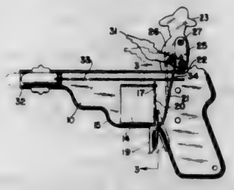
1. In signal responsive apparatus, a circuit resonant to a predetermined frequency, means for impressing a modulated signal at substantially said predetermined frequency on said circuit, an electric discharge device having a cathode, a control grid and an anode, a capacitor connecting said control grid with a first point on said circuit, means connecting said anode and said cathode with said circuit in oscillating relationship, a first impedance having high impedance to currents at said predetermined frequency and low impedance to currents of modulation frequency, a second impedance having low impedance to currents at said predetermined frequency, and high impedance to currents at said modulation frequency, means connecting one terminal of said first impedance to said control grid, means connecting said second impedance between the other terminal of said first impedance and a point on said circuit other than said first point, and polarity-sensitive detecting means connected across said second impedance and so poled as to be responsive to positive excursions of the potential at the said other terminal of said first impedance and non-responsive to negative excursions thereof.

2,535,402

TOY PISTOL

Myron Fleishman, New York, N. Y., assignor to All Metal Products Company, Wyandotte, Mich., a corporation of Delaware

Application April 27, 1946, Serial No. 665,479
5 Claims. (Cl. 46—118)



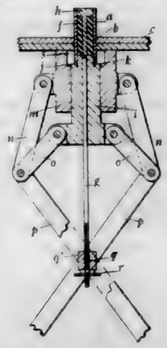
3. A toy firearm construction including a casing, a diaphragmlike spring metal noise-making element therewithin of the type having a portion movable with an overcenter spring action to produce an audible report, a trigger connected to said movable portion to actuate the same, an animated figure including a part movably carried by the exterior of the casing, and an actuating arm operatively connecting said part of the animated figure to said trigger and to said movable portion of the noise-making element.

2,535,403

APPLIANCE FOR DUAL HEADING OF HOLLOW RIVETS

Robert E. Froggatt, Erdington, England

Application July 23, 1947, Serial No. 762,938
In Great Britain August 20, 1946
4 Claims. (Cl. 218—19)



1. An appliance for inserting and securing a flangeless, cylindrical hollow rivet within an aperture in at least one stationary work piece, comprising a pair of coaxially disposed, oppositely movable pressure exerting members, one of said members constituting a stem insertable within the rivet and the other of said members constituting a sleeve of a diameter at least slightly in excess of the diameter of the rivet, said sleeve being slidable on said stem, means carried by the stem and cooperable with the rivet for securing the rivet to the stem exteriorly of the aperture so that the outer end portion of the stem together with the rivet secured thereto can be inserted through the aperture in the work piece, toggle mechanism connected to said stem and sleeve so that actuation thereof effects opposite relative movements of said stem and sleeve, so that this movement due to the cooperation of the means carried by the stem and the sleeve effects expansion of the rivet, an annular member surrounding said sleeve and having its outer end projecting forwardly of the outer end of the sleeve and engageable with the work piece when the stem and rivet are inserted through the aperture to limit the amount or rivet initially protruding through the aperture, and said toggle mechanism including means connected to said annular member to constrain the movements of the stem and sleeve to simultaneous movements in opposite directions, so that actuation of the toggle mechanism with the rivet inserted through the aperture and secured to the stem and with the annular member in continuous contact with the work piece effects continued opposite movements of the stem and sleeve to buckle portions of the rivet over the edges of both ends of the aperture to secure the rivet in place.

2,535,404

FISHING ROD HANDLE

Harry J. Fry, Sault Ste. Marie, Ontario, Canada

Application October 9, 1946, Serial No. 702,257
6 Claims. (Cl. 43—20)

3. In a fishing rod handle, a reel support, a reel rotatably mounted thereon, a hand grip extended outwardly of said reel support having an axial opening therein and also having guide slots therein, said guide slots communicating with said axial opening and being open to opposite sides

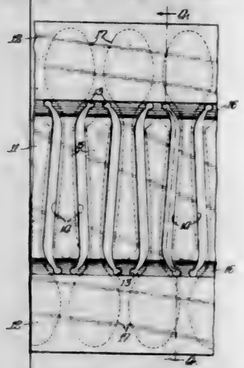
of said hand grip, a rod guidably extending into said axial opening, a brake shoe connected to said rod at the inner end of said hand grip and having a friction face for engaging said reel, a coil spring encircling said rod and seated at one end for urging said shoe into engagement with the reel, a feed screw seating the other end of said

spring and non-rotatably contained in said guide collar threadedly engaged with said feed screw on said hand grip and connected to said rod for spring on the shoe, and a hand lever fulcrumed slots for movement axially of said rod, and a and shouldered on said grip against endwise movement whereby to adjust pressure of the disengaging the shoe from the reel.

2,535,405
PREPARATION AND PACKING OF CHOPPED MEATS
Robert R. Fulton, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application February 8, 1947, Serial No. 727,309
8 Claims. (Cl. 99—187)

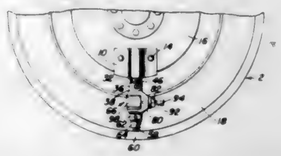
1. In a process for the preparation and packing of chopped meats, the steps of grinding meat to a coarse size, braising the meat without the addition of water at a temperature of about 170–200° F. for a period in the neighborhood of 20 minutes, regrinding the cooked meat to a finer size, packing the cooked meat with its juices in a container, sealing the container under vacuum, and processing the meat thus in the absence of air at a temperature of about 212–240° F.

2,535,406
METHOD OF MANUFACTURING SPOONS OR THE LIKE
Jerome N. Gehred, Park Ridge, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application April 10, 1948, Serial No. 20,332
1 Claim. (Cl. 76—105)



The method of manufacturing spoons or the like from a strip of metal having a thickness equal to the thickness of the handle of the spoon and a width slightly greater than the length of a spoon plus the length of a bowl, which comprises slitting and punching the strip centrally to provide a plurality of transverse slits with enlarged holes punched at the opposite ends thereof for preventing splitting of the metal during subsequent operations, said holes being spaced from both edges of the strip a distance slightly greater than the length of the bowl to provide unslitted marginal portions on the strip and said slits being spaced longitudinally of the strip a distance slightly greater than the width of the handle, rolling the strip longitudinally along both marginal portions to reduce the thickness and increase the length thereof and to widen the slits without changing the cross-sectional form of the metal between the slits, and by said longitudinal rolling simultaneously tapering the thickness of said strip transversely thereof from said holes inwardly a substantial distance beyond the holes whereby the rolled marginal portions of the strip are gradually tapered to the full thickness of the slitted central portion of the strip and punching transversely extending spoon blanks from the strip after such rolling with the bowl portions of the blanks punched from said marginal portions and the handle portions of the blanks punched from the metal between the slits.

2,535,407
STATIONARY SAFETY JACK
Charles L. Genesen, Argo, Ill.
Application November 26, 1947, Serial No. 788,197
2 Claims. (Cl. 254—86)

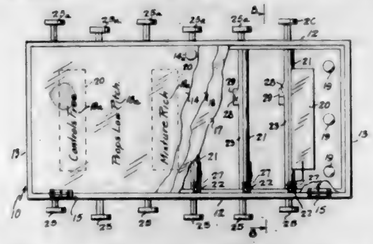


1. A jack attachment for vehicles comprising a base, means for removably fixing said base relative to a brake drum housing, said base having an internally threaded bore, a support threaded at one end for adjustably engaging said bore, a journal bearing embracing said support, means connecting said journal bearing to said base, a housing in which said support is rotatably mounted, said housing being movable vertically with said support, a removable closure for said housing, a driven gear fixed on said support and disposed within said housing, an actuating shaft rotatably mounted on said housing and movable with said housing, a drive gear carried by said shaft operatively engaging said driven gear, and a bearing element carried by the lower end of said support and adapted to engage the ground when the support is rotated in one direction.

2,535,408
MECHANICAL CHECK LIST
William H. Grace, Stamford, Conn.
Application February 5, 1947, Serial No. 726,481
6 Claims. (Cl. 40—132.1)

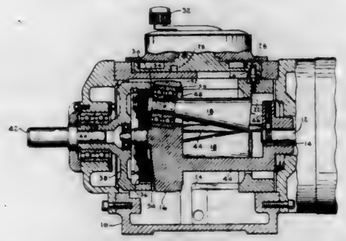
1. A checking device of the character described comprising a support adapted to hold a light transmitting sheet on which various items are marked, means for illuminating said sheet, a colored light transmitting strip associated with each item, a shaft mounting each strip so that it may be swung to and from positions over and away from its item to impart contrasting appearances thereto, and manually operable means

controlling the position of each strip including a slidable rod provided with means for shift-



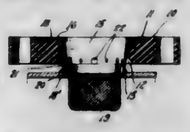
ing said rod in opposite directions to control the position of the strip.

2,535,409
VARIABLE-SPEED TRANSMISSION
Louis A. Graham, Milwaukee, Wis., assignor to Graham Transmissions, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application June 5, 1948, Serial No. 31,245
13 Claims. (Cl. 74—796)

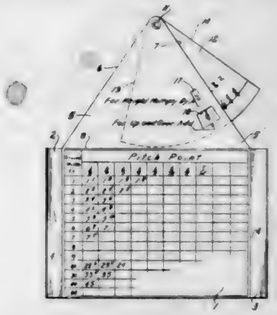


1. A variable speed transmission including an input shaft, a rotary carrier joined to said shaft, a planetary roller, bearing means at one end only of said roller mounting said roller on said carrier for rotation therewith and with respect thereto while maintaining said carrier and said roller substantially fixed against relative axial displacement with respect to each other, and an axially movable rigid control ring encircling said roller, said bearing means being disposed in said carrier in position to hold said roller in frictional contact with said ring at all times.

2,535,410
GASEOUS FLUID VAPORIZER AND MIXING DEVICE
Steve P. Grevas, Nameoki, Ill.
Application August 28, 1947, Serial No. 770,995
1 Claim. (Cl. 48—180)



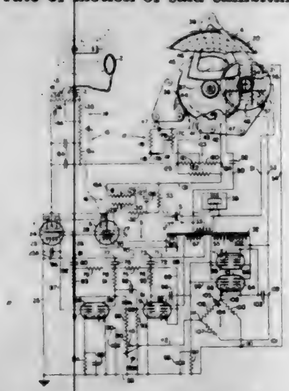
A gaseous fluid vaporizer and mixing device adapted to be interposed between a carburetor and an intake manifold, comprising: a tube connected to the carburetor and the manifold, a flange on one end of said tube, a screen attached to said tube, an annular row of holes being provided in said tube intermediate said flange and said screen, a plate adapted to be secured to said carburetor and spaced from said manifold, whereby said tube is held in position, and a beveled portion on said plate adjacent to the holes, so that air is admitted to said holes from the space between the plate and the intake manifold.

2,535,411
ROOF PITCH SIGHT GAUGE
Fred Hansen, White Plains, N. Y.
Application February 27, 1948, Serial No. 11,702
4 Claims. (Cl. 33—64)

1. A roof pitch sight gauge comprising a straight edged sighting member, two adjacent edges thereof defining a substantially angular silhouette when held in sighting relation to a roof to be measured, a sector shaped member pivotally joined to said sighting member, said sector shaped member being rotatable in a plane parallel with said sighting member and adapted to form with said sighting member a composite angular silhouette adjustable in conformance with the peak angle of said roof being measured, and graduated markings arranged on one of said members circumferentially to the rotatable axis thereof for indicating values corresponding to the angle formed by the composite silhouette of said members in each adjusted position thereof.

2,535,412
MEASURING AND CONTROL METHOD AND APPARATUS
Thomas R. Harrison, Wyncote, and Lloyd B. Cherry, Philadelphia County, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 31, 1944, Serial No. 528,866
26 Claims. (Cl. 175—183)

1. The method of obtaining a measure of the strength of a magnetic field which consists of the steps of relatively moving a magnetic field and an exploring device to derive an electrical effect the direction of which corresponds to the direction of said magnetic field and the magnitude of which is a function of the strength of said magnetic field and also of the rate of relative movement of said magnetic field and said exploring device, applying said electrical effect to motor means to control the energization of said motor means for operation of the latter in a direction corresponding to that of said electrical effect for a period the duration of which corresponds to that of said electrical effect and at a speed which is in substantially linear accordance with the magnitude of said electrical effect, utilizing the operation of said motor means for moving an exhibiting member from a predetermined position

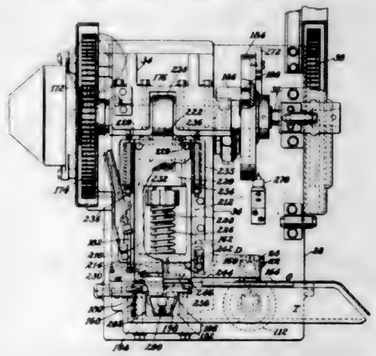
in a direction corresponding to the direction of operation of said motor means for a period the duration of which corresponds to that of the operation of said motor means and at a rate which corresponds to the speed of operation of said motor means, utilizing the operation of said motor means for deriving a second electrical effect the magnitude of which is a function of the speed of operation of said motor means, opposing said second electrical effect and the first mentioned electrical effect in the control of the energization of said motor means to suppress the increase in the rate of motion of said exhibiting member



tending to be effected by operation of said motor means as said first mentioned electrical effect increases in magnitude, thereby to expand the range of variation of said first mentioned electrical effect over which the rate of movement of said exhibiting member varies from zero to a maximum, and additionally controlling the energization of said motor means in accordance with the position of said exhibiting member as required to restore and maintain said exhibiting member in said predetermined position when the magnitude of said first mentioned electrical effect decreases below a predetermined value.

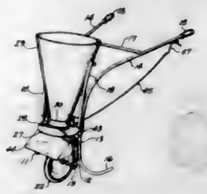
2,535,413
BOX FORMING MACHINE
George T. Hart, Lynn, and Malcolm Seymour, Cohasset, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 9, 1945, Serial No. 581,794
2 Claims. (Cl. 93—49)

1. In a semi-automatic box-end-forming machine, a guide positioned in unobstructed relation to the front of the machine so that the operator may move a partially formed box manually along said guide, box-end-forming means positioned along said guide for performing successive operations upon a blank previously coated with thermoplastic adhesive and advanced by the operator from one means to another, one of said forming means having relatively movable pressers provided with electrode plates, at least one of said pressers being mounted for movement into and out of a partially formed box, rotary power means operating in a cycle to move said movable presser back and forth, connections between said electrodes and a source of high-frequency electric power, said connections including sliding contacts for the movable electrode thereby to pass an electrostatic field through the end of the box to activate the adhesive, a clutch constructed and arranged to control the movement of said movable presser, and a cam switch



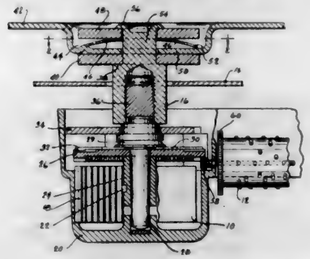
on said power means included in said connections for energizing said electrodes during said cycle of movement.

2,535,414
MATERIAL SPREADER
Leonard Heidger, Hales Corners, Wis., assignor to R. O. Coburn, O. A. Coburn, and D. A. Coburn, doing business as Coburn Manufacturing Company, Whitewater, Wis.
Application September 6, 1946, Serial No. 695,237
5 Claims. (Cl. 275—8)



1. A material spreader comprising a steel channel provided with a bridge and legs, axle bearings carried by said legs, an axle rotatively mounted in said axle bearings and restrained from longitudinal movement, a traction wheel mounted on said shaft and provided with a driving bevel gear, a shaft bearing rigidly supported by said bridge, a shaft rotatively mounted in said shaft bearing, a driven bevel gear meshing with said driving gear mounted on said shaft, a spreader disk mounted on said shaft above said shaft bearing, said driven gear and said disk being in abutting relationship with said shaft bearing to restrain longitudinal movement of said shaft, a pair of members secured to said legs having upwardly and outwardly projecting arms and downwardly and outwardly projecting legs, hopper supports carried by said members, an inverted cone-shaped hopper secured to said supports, a bottom member for said hopper provided with a central opening and a discharge opening, said shaft projecting up through said central opening into said hopper, an eccentric on the upper end of said shaft, radially extending fingers on said shaft above said bottom member and below said eccentric, and an agitator rotatively mounted on said eccentric and provided with upwardly projecting fingers adjacent to but spaced from the wall of said hopper.

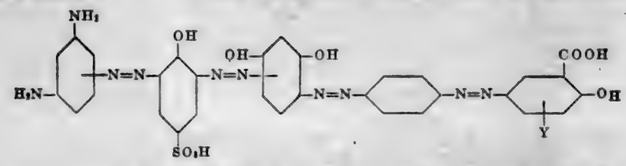
2,535,415
CLUTCH MECHANISM FOR SPRING WOUND MOTORS
Michael Heller, Port Chester, N. Y.
Application May 27, 1949, Serial No. 95,593
1 Claim. (Cl. 64—30)



In a clutch mechanism for connecting a winding member to a spring wound motor, a winding member, a winding shaft having a shoulder, an upper washer, a lower washer, a lug on the winding member, a spring washer convex in shape and having a plurality of spaced slots extending inward from the periphery, said lower washer mounted on the shoulder of the winding shaft, said winding member positioned on said lower washer and said spring washer positioned between the upper washer with the lug positioned in a slot, and means on the winding shaft forcing the upper washer against the spring washer to urge the winding member against the lower washer and the lower washer against the shoulder with a selected pressure less than the maximum torsion of the spring wound motor.

2,535,416
POLYAZO DYESTUFFS
Peter Hindermann, Basel, and Werner Bossard and Adolf Krebser, Riehen, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application April 28, 1949, Serial No. 90,272. In Switzerland November 9, 1945
6 Claims. (Cl. 260—166)

2. The tetrakisazo dyestuff which, in the free state, corresponds to the general formula

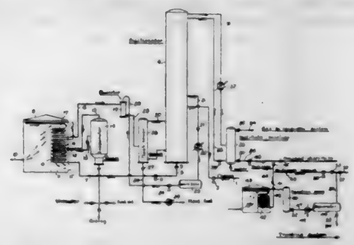


wherein Y stands for a member of the group consisting of H and CH_3.

2,535,417
PROCESS FOR THE PRODUCTION OF 1,10-PHENANTHROLINE
Ernst Hodel, Birsfelden, near Basel, and Hans Gysin, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application February 27, 1950, Serial No. 146,628. In Switzerland March 4, 1949
5 Claims. (Cl. 260—288)

1. Process for the manufacture of 1.10-phenanthroline by condensation of a starting material selected from the group consisting of o-phenylenediamine and 8-aminoquinoline together with glycerine in the presence of a Skraup dehydrogenating agent selected from the group consisting of nitrobenzene sulphonic acid and arsenic acid, characterised in that the condensation is carried out in 60–70% sulphuric acid as condensing agent at a temperature of about 120–140° C. and in the presence of an inorganic salt of bivalent copper sufficient in amount to transform all phenanthroline into its copper complex compound, isolating the phenanthroline copper complex and separating the 1,10-phenanthroline by decomposition of the complex.

2,535,418
PROCESS FOR THE PRODUCTION OF VAPOR PHASE CONVERTED HYDROCARBONS
William W. Holland, Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan
Application July 17, 1947, Serial No. 761,516
6 Claims. (Cl. 196—61)



5. A process for converting hydrocarbons, comprising passing vapors of the hydrocarbons to be converted through a converter zone in which the vapors are heated to temperatures within the range of 1000° to 1550° F., immediately thereafter and substantially instantaneously shock-chilling the cracked vapors to a temperature below that at which active vapor phase cracking takes place, fractionating the vapors and subjecting the same to condensation to produce a highly unsaturated distillate of motor fuel boiling range and cracked hydrocarbon gases under normal conditions of temperature and pressure, reducing partially the degree of unsaturation by subjecting the unsaturated distillate to mild non-destructive hydrogenation, and thereafter treating the hydrogenated products with sulphuric acid to remove therefrom objectionable gum-forming and color-imparting compounds.

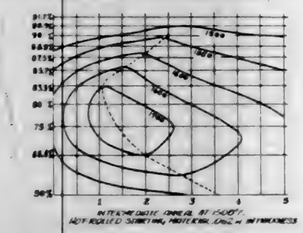
2,535,419
MANUALLY PROPELLED IMPLEMENT HANDLE
Robert E. Huston, Henderson, Tex.
Application November 15, 1946, Serial No. 710,054
1 Claim. (Cl. 16—111)

An attachment for the elongated handle shank of a lawn mower, garden implement or the like, comprising a pair of plates adapted to be detach-

ably secured to opposite surfaces of an elongated handle shank adjacent one of the ends of the handle shank, a pair of bars secured to the exposed sides of the said plates, intermediate of the ends of the bars and transversely of the plates

and handle shank, and a hand grip detachably mounted between each pair of complementary ends of said bars, said hand grips being disposed in laterally spaced relationship to one another and to the handle shank and with their axes perpendicular to the axis of the handle shank.

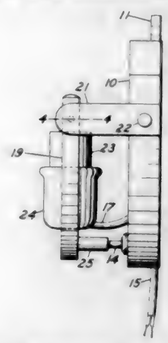
2,535,420
PROCESS OF PRODUCING SILICON STEEL OF HIGH-DIRECTIONAL PERMEABILITY
John M. Jackson, Middletown, Ohio, assignor to Armco Steel Corporation, a corporation of Ohio
Application September 10, 1947, Serial No. 773,162
5 Claims. (Cl. 148—12.5)



1. A process of producing silicon steel of high and highly directional permeability which comprises the steps of hot rolling electrical steel containing substantially 2% to 4.5% silicon to a thickness of substantially .074 inch, cold rolling the steel with a reduction in thickness of substantially 73% to 84% varying substantially directly with the temperature of the next mentioned continuous anneal, continuously annealing the steel at a temperature substantially in the range of 1500° to 2100° F., again cold rolling the steel with a reduction in thickness of substantially 1.0% to .4% varying substantially inversely with the temperature of the said continuous anneal, and subjecting the steel to a box anneal at a temperature of substantially 2200° F.

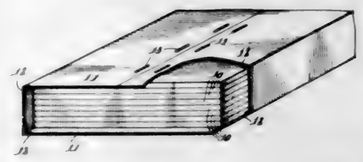
2,535,421
ELECTRICAL WALL LAMP WITH SWITCH OPERATED BY LAMP MOVEMENT
Howard M. Jensen, Huntington, and Wilbur B. Young, Bayport, N. Y.
Application June 4, 1948, Serial No. 31,136
2 Claims. (Cl. 240—73)

1. A lamp construction including a base adapted to be secured to a wall, supporting arm means rigid with said base and extending outwardly from said base adjacent the upper portion thereof, a ball member pivotally supported on said arm means in spaced relation to said base and freely depending therefrom, an electrical lamp socket supported by said ball adjacent the lower end thereof and within said ball, an electrical switch mechanism carried by said base adjacent the lower end thereof and having a switch operating plunger extending from said base adjacent the lower end thereof and having its end in proximity to the lower end portion of said ball, a spring device for urging said plunger toward said ball, and a wire connecting said lamp socket



to said switch mechanism and resiliently urging the lower end portion of said ball toward said switch operating plunger.

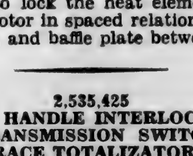
2,535,422
BOARD BUNDLE
William R. Jones, Metuchen, N. J., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application March 1, 1947, Serial No. 731,887
2 Claims. (Cl. 206—60)



1. A package of rectangular substantially flat sheets of building material of greater length than width comprising in combination, a plurality of such sheets each comprising a fiberboard core having an adhered surfacing of grit on one face and an asphaltic coating on the opposite face and in pairs with the gritted faces together substantially superposed and forming a stack, a rectangular sheet form fibrous wrapper folded about the stack of sheets and substantially enclosing opposite faces and two opposite long edges of the stack and securing means positioned along the contiguous edges of the wrapper and securing the wrapper to the outer face of a surface sheet of the stack together with securing means securing the wrapper to the outer surface of the other surface sheet of the stack.

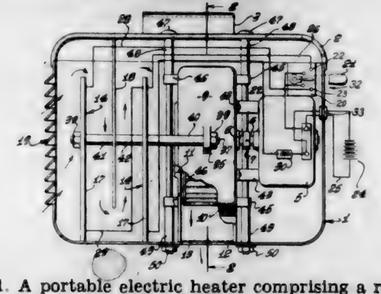
2,535,423
EXCESS VOLTAGE CUTOUT FOR LOW-VOLTAGE SYSTEMS
Karl Valdemar Jørgensen, Kaerby, Aalborg, Denmark
Application January 11, 1946, Serial No. 640,601
In Denmark January 25, 1945
3 Claims. (Cl. 174—140)

2. An excess voltage cut-out for low tension electric lines comprising a wire for binding the line to an insulator, mounted on a grounded metal support, said wire being secured about the insulator and having at least one end helically wound about the line, and a straight conductor formed as a continuation of said helically wound portion, and extending from the end of said helically wound portion remote from the insulator at an



acute angle to said line to a point spaced from the insulator support to form a spark gap between the free end of the straight conductor and said support.

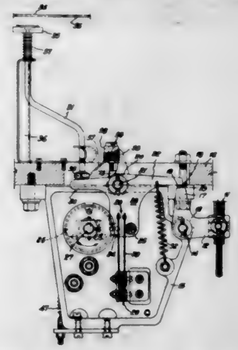
2,535,424
CAR HEATING ATTACHMENT
Archie Josephson, Hollywood, Calif., assignor to National Heaters, Inc., Glendale, Calif., a corporation of California
Application August 31, 1948, Serial No. 47,103
4 Claims. (Cl. 219—39)



1. A portable electric heater comprising a rectangular casing, an electric motor in the casing the casing having an air discharge opening in the bottom thereof and an air inlet in the wall directly opposite said motor, a blower in the casing having its air inlet in registration with said casing inlet and its outlet in line with said discharge opening of the casing, said blower having perforated lugs projecting from the sides thereof, a screen at the discharge outlet from the blower, heat elements between the blower air inlet and the said inlet opening of the casing, the heat elements having perforations through the side edges thereof in axial alignment with said lug perforations, bolts extending through said aligned perforations to lock the heat elements in position on the motor in spaced relation thereto and to each other, and baffle plate between said heat elements.

2,535,425
OPERATING HANDLE INTERLOCK AND IMPULSE TRANSMISSION SWITCH ASSEMBLY FOR RACE TOTALIZATORS
Awdry Francis Julius, Sydney, New South Wales, Australia, and George Alfred Julius, deceased, late of Sydney, New South Wales, Australia, by Eva Dronghsia Odierna Julius, Killara, near Sydney, New South Wales, Australia, and Awdry Francis Julius and Russell Stuart Hicks, Sydney, New South Wales, Australia, executors, assignors to Automatic Totalisators, Limited, Sydney, New South Wales, Australia
Application June 30, 1948, Serial No. 36,163
In Australia June 30, 1947
10 Claims. (Cl. 235—91)

2. An interlock unit for a race totalisator ticket issuer, comprising, an interlock lever able to assume either a locking position or an unlocking position, a biasing spring which influences said interlock lever to assume and remain in its locking position, a ticket issuer hand piece means operable on depression of the ticket issuer handpiece to allow said interlock lever to assume its locking position and thereby hold said handpiece depressed, a thrust rod which is movable towards said interlock lever, a movable packing member spring biased to assume a working position directly between said thrust rod and said interlock lever, a lever having said packing member mounted thereon, a trip lever able to assume either an integrator position or an issuer position,



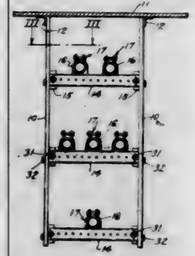
biasing means which influence said trip lever to assume and remain in its issuer position, means for keeping said packing member lever in touch with said trip lever, an interlock switch which is closed by said interlock lever when in its locking position, and electrically operable latch means which on closure of said interlock switch and contingently upon current flow therethrough, allow said biasing means to move said trip lever into its issuer position, and separate electrical means controlled by said electrically operable latch means to revert said interlock lever to its unlocking position, and then revert said trip lever to its integrator position.

2,535,426
METIER
Albert W. Keight, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application June 15, 1948, Serial No. 33,021
8 Claims. (Cl. 18—8)

1. In a filament treating apparatus having an opening in a wall thereof for the passage of filaments, the combination with a door pivotally mounted to close said opening, of means including a filament aperture intersecting the lower edge of said opening, filament guide means cooperating with said opening to guide filaments through said opening when said door is opened

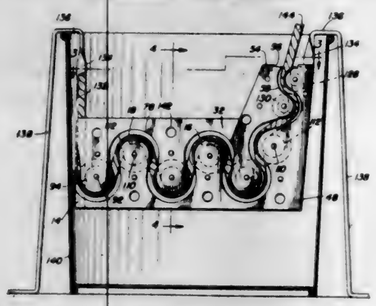
and other filament guide means cooperating with said filament aperture to guide the same filaments through said filament aperture when said door is closed, the construction and arrangement of said filament guide means being such that the filaments are in operative contact with only one of said filament guide means at any one time.

2,535,427
CONDUIT SUPPORTING FRAME
Harry L. Kindorf, San Francisco, Calif., assignor, by mesne assignments, to The Kindorf Co., San Francisco, Calif., a corporation of California
Application April 2, 1946, Serial No. 658,985
5 Claims. (Cl. 248—68)



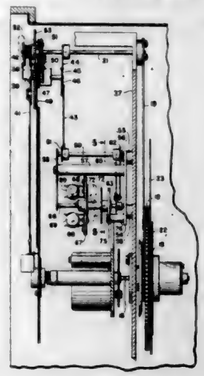
1. A conduit supporting frame comprising channel beams of identical cross section, and connecting members adapted to be disposed between two of said beams adjacent their ends for holding them in spaced relation and for connecting them with an adjacent beam, all of said beams having perforations disposed at spaced intervals throughout the length of their web portions, and said connecting members having perforations for the reception of bolts passed through perforations in the channel beams.

2,535,428
CLOTHESLINE WASHER
John J. Kubiak, Brooklyn, N. Y.
Application March 15, 1948, Serial No. 15,015
4 Claims. (Cl. 68—175)



1. A clothesline cleaner comprising a roller support, said roller support being constructed from a single blank of material and including a first side wall, a pair of extensions adapted to form a second side wall, strips securing said extensions to said first side wall, said strips forming an upper wall and lower wall respectively, a pair of ears carried by each of said extensions, the ears of one extension being staggered with respect to the ears of the other extension, a plurality of shafts carried by said ears and said first side wall and a further extension integrally formed with said first side wall, and having first and second portions and a strip joining said portions, said second portion being secured to said first side wall and coplanar with said pair of extensions, said second portion including an ear disposed adjacent one ear of one of said pair of extensions, further shafts carried by said first and second portions, and rollers mounted on said plurality of shafts and said further shafts.

2,535,429
CONTROL INSTRUMENT
Gregor W. Kuntny, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 31, 1945, Serial No. 625,853
6 Claims. (Cl. 200—56)

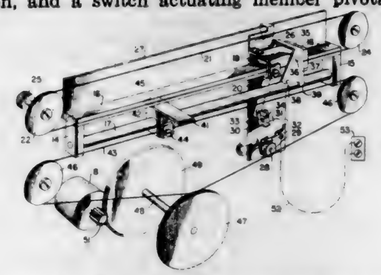


6. A mercury switch operating mechanism including, a mercury switch, a pivotal mounting for said mercury switch, a spring tending to turn said mounting in one direction about its pivot, a pair of arms one of which is secured to said pivotal mounting and one of which has a slot therein, an anti-friction roller pivotally mounted on the other of said arms and rolling in said slot so as to rotate the slotted arm, a driving link pivotally secured to that arm which is not secured to said pivotal support, a differential lever mechanism to which the opposite end of said link is pivotally secured, a manually operable knob secured to said mechanism so as to adjust said link, and a measuring instrument responsive to the movements of a variable to which it is desired to have the mercury switch respond and connected to said mechanism so as to move said link.

2,535,430
CONTROL INSTRUMENT
Gregor W. Kuntny, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 20, 1945, Serial No. 636,219
4 Claims. (Cl. 200—56)

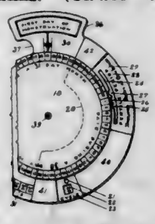
2. In a potentiometer having a motor responsive to the variations of a variable under control, means for actuating electric control switches including, a carriage mounted in said potentiometer for straight line movement, a cable driven by the motor of the potentiometer and connected to said carriage so as to drive it, a control table mounted

in said potentiometer adjacent the straight path of motion of said carriage, a control switch pivotally mounted on said control table for movement into circuit-making and circuit-breaking position, and a switch actuating member pivotally



mounted on said control table and having a portion extending into the path of motion of said carriage so as to be engaged thereby and having driving engagement with said switch to move it to one of its various positions when said actuating member is engaged by said carriage.

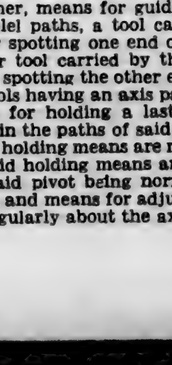
2,535,431
MENSTRUAL CYCLE INDICATING DEVICE
John B. Lancaster, Philadelphia, Pa.
Application May 23, 1949, Serial No. 94,870
2 Claims. (Cl. 235—83)



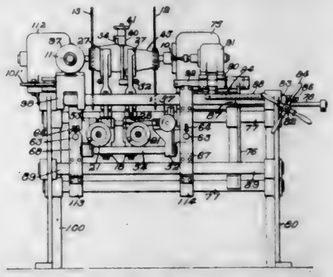
1. A menstrual cycle indicating device comprising a base plate having arcuately disposed indicia corresponding to the normal ranges of menstrual cycles and a fixed indicator for the first day of menstruation spaced circumferentially therefrom, a disc rotatably mounted on said base plate and spaced inwardly with respect to said arcuately disposed indicia to provide a marking space on said base plate between the peripheral edge of said disc and said arcuately disposed indicia, said disc having a plane ring thereon equally divided radially into sixty-one divisions corresponding consecutively to the number of days in two calendar months of thirty and thirty-one days and indicia identifying each of said days, and a separable pattern key plate adopted for alinement with the peripheral edge of said disc, said key plate having a window for alinement with one of the cycle range indicia and a corresponding marking opening alined with said marking space, and said key plate having an additional marking opening alined with said marking space corresponding to the fertile period.

2,535,432
CONTROL FOR WATER SOFTENING APPARATUS
Lynn G. Lindsay, St. Paul, Minn.
Application June 28, 1946, Serial No. 680,311
2 Claims. (Cl. 210—24)

1. In water softening apparatus having a tank containing a body of water softening material and means for admitting regenerating material to said tank, the improvements which comprise, upper and lower two-way, three-port valves having ports communicating respectively with the upper and lower portions of said tank, said upper valve having a second port for discharging soft water and said lower valve having a second port constituting a drain outlet and means for supplying hard water to a third port of each of said valves, said valves being selectively operable to a first position to cause the flow of water to be softened through the softening material in said tank and through the second port of the upper valve and in another position to cause regenerating material and flushing water to flow through said softening material to the drain outlet port.

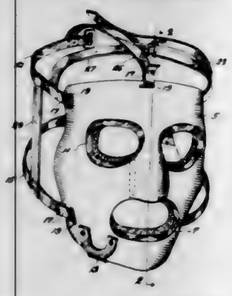


2,535,433
LAST BLOCK CENTERING APPARATUS
Henry F. Loewer, Rochester, N. Y., and Oscar S. Porter, Shrewsbury, Mass., assignors to United Last Company, Portland, Maine, a corporation of Maine
Application December 20, 1946, Serial No. 717,428
8 Claims. (Cl. 144—1)



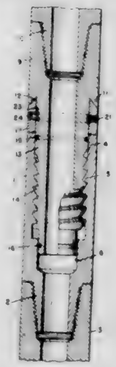
1. An apparatus for preparing a last-block comprising two tool-slides movable toward and from each other, means for guiding them along straight parallel paths, a tool carried by one of said slides for spotting one end of a rough last-block, another tool carried by the other one of said slides for spotting the other end of the block, one of said tools having an axis parallel with said paths, means for holding a last-block with its ends exposed in the paths of said tools, a support on which said holding means are mounted, a pivot connecting said holding means and said support, the axis of said pivot being normal to the axis first specified, and means for adjusting said holding means angularly about the axis of said pivot.

2,535,434
PLASTIC FOOTBALL PLAYER'S MASK
Michael T. Marietta, Dallas, Tex.
Application December 29, 1949, Serial No. 135,777
1 Claim. (Cl. 2—9)



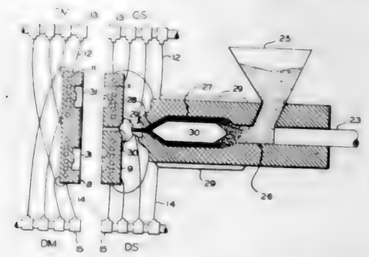
In an athlete's mask the combination comprising an exterior plastic section having a hole for the mouth of the wearer, two eye holes and a protuberance with an interior cavity for the nose of the wearer, the cavity opening to the space exterior to the mask at the lower end of the protuberance and a one-piece pad of foam rubber having a single cutout partly receiving the nose of the wearer and partly registering with the cavity, the mouth hole and the eye holes, the part of the cutout receiving the nose and registering with the cavity having straight and parallel edges each aligned with an intersection of the cavity surface and the remaining interior surface of the plastic section.

2,535,435
COUPLING
Dulas L. Massey, Houston, Tex.
Application June 7, 1948, Serial No. 31,512
6 Claims. (Cl. 285—146)



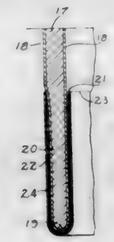
1. A coupling for tubular sections comprising, a box member having internal threads, a pin member having external threads adapted to be screwed into said internal threads and having an external, tapering groove, a ring around the pin member one end of which is tapering and arranged to wedge in said groove and whose other end abuts the opposing end of the box member, when said members are screwed together to home position, cams on the abutting parts having faces pitched reversely of the pitch of the threads and arranged to contact when the sections are screwed together and whose other faces have the same pitch as the threads.

2,535,436
ART OF MOLDING THERMOPLASTIC MATERIAL BY THE INJECTION MOLDING METHOD
Charles Edgar Maynard, Florence, Mass., assignor to The Pro-Phy-Lac-Tic Brush Company, Florence, Mass., a corporation of Delaware
Application November 28, 1947, Serial No. 788,486
3 Claims. (Cl. 18—55)



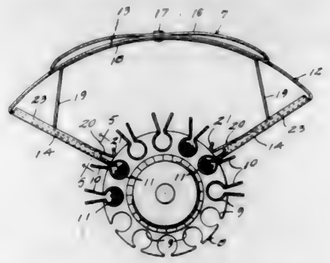
1. The improvement in the art of molding thermo-plastic material by the injection molding method such as commonly includes the following cycle of steps: closing the mold, injecting the heat plasticized material under pressure to fill the closed mold, holding the mold closed and holding the material in the mold under hydraulic pressure long enough for it to set to molded form retaining condition, opening the mold, removing the piece and repeating such steps in their cycle all by the use of an injection holding machine; which improvement consists in heating the mold to a temperature above the setting temperature of the heat plasticized material when the material is injected into the mold to avoid setting any portion of the material until the mold is filled and thus avoid weld lines, holding such high mold temperature until the mold is filled and all portions of its contents are in quiescent condition for setting, artificially chilling the mold to start the mold temperature falling toward the setting temperature of the material, substantially at the time the injection step is finished and continuing such chilling step to lower the mold temperature substantially below the temperature at which the material will begin setting in the mold, holding the mold closed and its contents under hydraulic pressure for the time required for setting such material to molded form retaining condition, which is necessarily much longer than the sum of the time periods of all other steps in the aforesaid cycle, beginning another mold heating step when the mold is near its said low chilling temperature, carrying on said heating step for a substantial part of said material setting period of time, opening the mold at the end of such setting period, removing the molded material, and closing the mold, while continuing said mold heating step to continue the temperature rise in the mold during the time periods of said mold opening step, said material removing step and said mold closing step to have the mold heated and ready at such aforesaid high temperature to start the injection step of the next cycle at the high temperature of the mold and substantially as soon as the last mentioned mold closing step is completed.

2,535,437
DIP PIPE FOR PROCESSING CONTAINERS
Sidney W. McCann, Irondequoit, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application November 25, 1949, Serial No. 129,240
6 Claims. (Cl. 138—47)



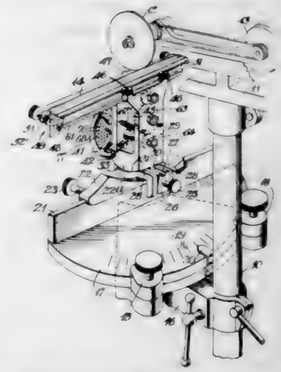
1. A dip pipe for supplying materials to and withdrawing the same from a container below the upper surface of the contents thereof comprising a metal pipe, a corrosion-resisting glass coating covering the inner and outer surfaces of said pipe and a ferrule of corrosion-resisting metal covering said coating at the dipping end and over the adjacent side wall portions of said coated pipe to shield and protect the same.

2,535,438
ARMATURE WINDER
Loran D. McCollom, Oklahoma City, Okla.
Application December 5, 1947, Serial No. 789,825
3 Claims. (Cl. 242—13)



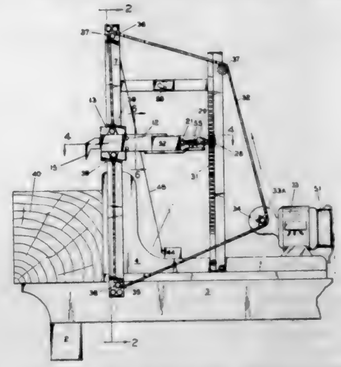
1. In a tool or implement for winding armatures, an elongated strip of resilient material having an arcuate, outwardly bowed intermediate portion and inturned substantially straight ends forming jaws disposed in inwardly converging relationship, said jaws being resiliently supported relatvely to one another by said resilient intermediate portion and the inner terminals thereof being adapted to extend into and engage selective slots of an armature for attaching the tool or implement thereto so that the armature can be revolved and wound by torsional force exerted on the tool or implement, and leg members disposed on the inner sides of the jaws in outwardly diverging relationship relatively thereto and having foot portions at their free ends adapted to engage portions of the periphery of the armature when the jaws are disposed for engagement with the selective slots thereof, said leg members extending longitudinally of the jaws and the foot portions thereof being spaced a greater distance apart than the jaw terminals.

2,535,439
SAW SHARPENER
James McEwan, San Jose, Calif.
Application May 27, 1949, Serial No. 95,729
11 Claims. (Cl. 76—43)



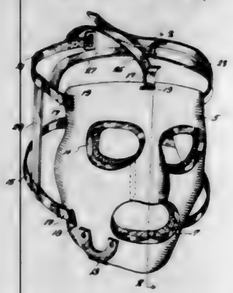
1. In a saw sharpener, a sharpening element, a clamp for presenting a saw to the sharpening element, support means mounting the clamp for movement relatively thereto and for angular adjustment of the clamp about axes at an angle to each other and intersecting at a center coinciding with the point of engagement of the sharpening element with the saw and for adjustment about a third axis passing through said point, and intermeshing gearing carried by said clamp and support means for effecting step-by-step movement of said clamp past said sharpening element.

2,535,440
POWER-OPERATED DOG FOR SAWMILL CARRIAGES
Douglas R. McFeron, Eugene, Oreg.
Application November 27, 1945, Serial No. 631,038
7 Claims. (Cl. 143—125)



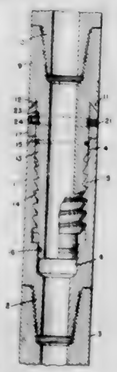
1. A sawmill dog mechanism comprising a stationary frame, an elongated vertically positioned guide frame movably mounted on said stationary frame, a dog slidably mounted on said guide frame, means for moving said dog vertically along said guide frame, means for driving said moving means, means for starting said driving means, means operated by said moving means and operative upon the stoppage of movement of

2,535,434
PLASTIC FOOTBALL PLAYER'S MASK
Michael T. Marietta, Dallas, Tex.
Application December 29, 1949, Serial No. 135,777
1 Claim. (Cl. 2—9)



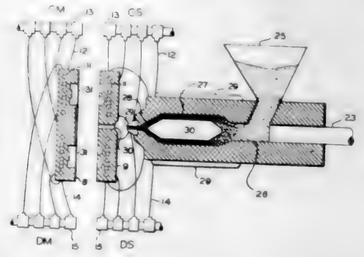
In an athlete's mask the combination comprising an exterior plastic section having a hole for the mouth of the wearer, two eye holes and a protuberance with an interior cavity for the nose of the wearer, the cavity opening to the space exterior to the mask at the lower end of the protuberance and a one-piece pad of foam rubber having a single cutout partly receiving the nose of the wearer and partly registering with the cavity, the mouth hole and the eye holes, the part of the cutout receiving the nose and registering with the cavity having straight and parallel edges each aligned with an intersection of the cavity surface and the remaining interior surface of the plastic section.

2,535,435
COUPLING
Dulas L. Massey, Houston, Tex.
Application June 7, 1948, Serial No. 31,512
6 Claims. (Cl. 285—146)



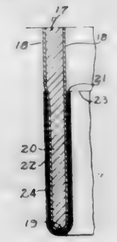
1. A coupling for tubular sections comprising, a box member having internal threads, a pin member having external threads adapted to be screwed into said internal threads and having an external, tapering groove, a ring around the pin member one end of which is tapering and arranged to wedge in said groove and whose other end abuts the opposing end of the box member, when said members are screwed together to home position, cams on the abutting parts having faces pitched reversely of the pitch of the threads and arranged to contact when the sections are screwed together and whose other faces have the same pitch as the threads.

2,535,436
ART OF MOLDING THERMOPLASTIC MATERIAL BY THE INJECTION MOLDING METHOD
Charles Edgar Maynard, Florence, Mass., assignor to The Pro-Phy-Lac-Tic Brush Company, Florence, Mass., a corporation of Delaware
Application November 28, 1947, Serial No. 788,486
3 Claims. (Cl. 18—55)



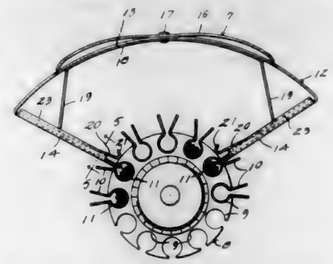
1. The improvement in the art of molding thermo-plastic material by the injection molding method such as commonly includes the following cycle of steps: closing the mold, injecting the heat plasticized material under pressure to fill the closed mold, holding the mold closed and holding the material in the mold under hydraulic pressure long enough for it to set to molded form retaining condition, opening the mold, removing the piece and repeating such steps in their cycle all by the use of an injection holding machine; which improvement consists in heating the mold to a temperature above the setting temperature of the heat plasticized material when the material is injected into the mold to avoid setting any portion of the material until the mold is filled and thus avoid weld lines, holding such high mold temperature until the mold is filled and all portions of its contents are in quiescent condition for setting, artificially chilling the mold to start the mold temperature falling toward the setting temperature of the material, substantially at the time the injection step is finished and continuing such chilling step to lower the mold temperature substantially below the temperature at which the material will begin setting in the mold, holding the mold closed and its contents under hydraulic pressure for the time required for setting such material to molded form retaining condition, which is necessarily much longer than the sum of the time periods of all other steps in the aforesaid cycle, beginning another mold heating step when the mold is near its said low chilling temperature, carrying on said heating step for a substantial part of said material setting period of time, opening the mold at the end of such setting period, removing the molded material, and closing the mold, while continuing said mold heating step to continue the temperature rise in the mold during the time periods of said mold opening step, said material removing step and said mold closing step to have the mold heated and ready at such aforesaid high temperature to start the injection step of the next cycle at the high temperature of the mold and substantially as soon as the last mentioned mold closing step is completed.

2,535,437
DIP PIPE FOR PROCESSING CONTAINERS
Sidney W. McCann, Irondequoit, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application November 25, 1949, Serial No. 129,240
6 Claims. (Cl. 138—47)



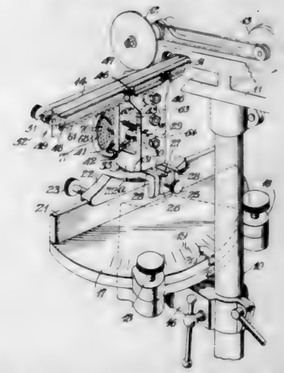
1. A dip pipe for supplying materials to and withdrawing the same from a container below the upper surface of the contents thereof comprising a metal pipe, a corrosion-resisting glass coating covering the inner and outer surfaces of said pipe and a ferrule of corrosion-resisting metal covering said coating at the dipping end and over the adjacent side wall portions of said coated pipe to shield and protect the same.

2,535,438
ARMATURE WINDER
Loran D. McCollom, Oklahoma City, Okla.
Application December 5, 1947, Serial No. 789,825
3 Claims. (Cl. 242—13)



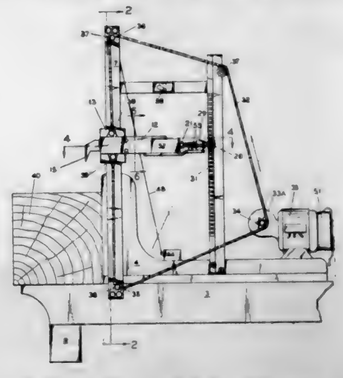
1. In a tool or implement for winding armatures, an elongated strip of resilient material having an arcuate, outwardly bowed intermediate portion and inturned substantially straight ends forming jaws disposed in inwardly converging relationship, said jaws being resiliently supported relatvely to one another by said resilient intermediate portion and the inner terminals thereof being adapted to extend into and engage selective slots of an armature for attaching the tool or implement thereto so that the armature can be revolved and wound by torsional force exerted on the tool or implement, and leg members disposed on the inner sides of the jaws in outwardly diverging relationship relatively thereto and having foot portions at their free ends adapted to engage portions of the periphery of the armature when the jaws are disposed for engagement with the selective slots thereof, said leg members extending longitudinally of the jaws and the foot portions thereof being spaced a greater distance apart than the jaw terminals.

2,535,439
SAW SHARPENER
James McEwan, San Jose, Calif.
Application May 27, 1949, Serial No. 95,729
11 Claims. (Cl. 76—43)



1. In a saw sharpener, a sharpening element, a clamp for presenting a saw to the sharpening element, support means mounting the clamp for movement relatively thereto and for angular adjustment of the clamp about axes at an angle to each other and intersecting at a center coinciding with the point of engagement of the sharpening element with the saw and for adjustment about a third axis passing through said point, and intermeshing gearing carried by said clamp and support means for effecting step-by-step movement of said clamp past said sharpening element.

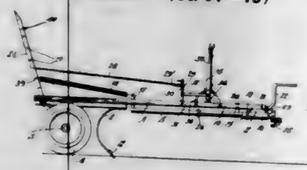
2,535,440
POWER-OPERATED DOG FOR SAWMILL CARRIAGES
Douglas R. McFeron, Eugene, Oreg.
Application November 27, 1945, Serial No. 631,033
7 Claims. (Cl. 143—125)



1. A sawmill dog mechanism comprising a stationary frame, an elongated vertically positioned guide frame movably mounted on said stationary frame, a dog slidably mounted on said guide frame, means for moving said dog vertically along said guide frame, means for driving said moving means, means for starting said driving means, means operated by said moving means and operative upon the stoppage of movement of

the dog by abutment with a log for moving said guide frame, and means operative by the movement of said guide frame for stopping said driving means.

2,535,441
DELAYED ACTING POWER LIFT
David K. McGehee, Canyon, Tex.
Application August 23, 1946, Serial No. 692,414
1 Claim. (Cl. 97—75)

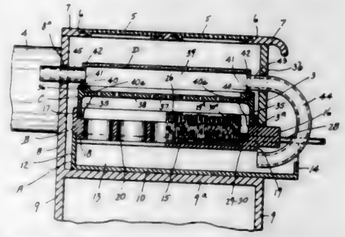


A delayed acting power lift for a ground working machine having ground engaging wheels and a raising and lowering tool-carrying frame vertically shiftable relative to the wheels for bringing the machine into and out of ground working positions comprising: a movable arm connected to the frame and the wheels for vertically shifting said frame, a displaceable draw bar forwardly of the arm, guide means on the frame for supporting the bar, hand controlled means for adjusting the arm to regulate the ground working position of the frame, an expansible and retractible tensioning element adjustably connected to the arm and fixedly attached to the bar for tensioning the arm on the bar being displaced when the frame is in ground working position and resultant from abnormal resistance thereto for automatically effecting delayed vertical shifting action of the frame to bring the machine out of ground working position, cushioning means for coaction with the guide means and the draw bar, and a latch for the draw bar to hold it in displaced position for retracting the tensioning element.

2,535,442
HETERODYNE ELIMINATOR COMMUNICATION SYSTEM
James L. A. McLaughlin, La Jolla, Calif.
Application July 26, 1949, Serial No. 106,943
18 Claims. (Cl. 250—6)

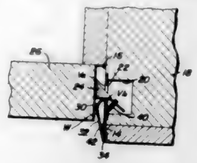
1. Communication apparatus of the character described for eliminating an undesired signal closely adjacent a desired signal, including: means for providing a desired signal comprising a frequency band of waves bearing intelligence to be communicated and a plurality of carrier waves provided in alternating sequence respectively on opposite sides of the center of said band to provide a plurality of groups of segments, the segments of each group recurring cyclically in timed sequence, and each segment including intelligence bearing waves; receiving means including a plurality of signal channels each passing a different group of segments and frequencies comprising only a portion of the intelligence bearing waves in such segments; and means coupled to the output of all of said channels for providing a combined indication of intelligence borne by said portions of the band.

2,535,443
OIL BURNER AND MIXER
John F. Meyer, Indianapolis, Ind.
Application May 7, 1948, Serial No. 25,750
2 Claims. (Cl. 158—94)



1. A liquid fuel burner unit adapted for disposition within the casing of a stove and adapted to be supported thereby, said burner unit comprising a walled open top base, one end of which opens to the atmosphere and providing a lower air chamber, a fuel receptacle having burner wicks supported on the walls of said base, a plate supported on said receptacle in spaced relation above said wicks and having air supply ports therethrough, the ports being disposed in alignment with said wicks, and a canopy above said plate and having an air intake opening therein.

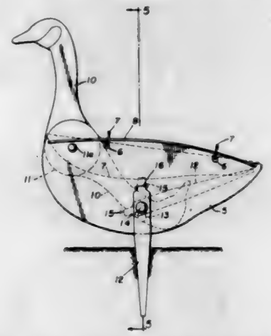
2,535,444
DOOR STRIKE PLATE ADJUSTER
Clarke E. Miller, Johnstown, Pa.
Application September 17, 1948, Serial No. 49,823
3 Claims. (Cl. 292—341.18)



1. In combination with a door latch keeper including a strike plate having a lateral projection and a latch bolt opening adjacent said projection, of a means for yieldingly retaining a latch bolt in said opening, said means comprising an arcuate resilient member including inner and outer portions, and means at the outer portion of said member receiving and gripping the projection, the inner portion of said member extending through said opening, and means supported solely by the inner portion of said member for spacing the same relative to said strike plate.

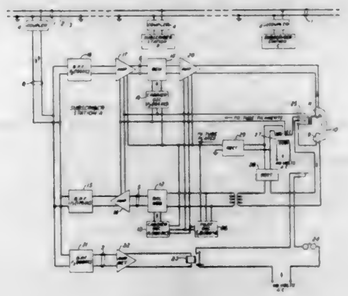
2,535,445
GOOSE DECOY
William Miller and Edward W. Biermann, Ritzville, Wash.
Application February 19, 1947, Serial No. 729,450
2 Claims. (Cl. 43—3)

1. A foldable sheet material decoy of the class shown and described comprising a relatively flat body of sheet material of requisite shape and form, a pair of projectible and retractible wings hingedly connected to the upper edge portion of said body, said wings being metal and being lon-



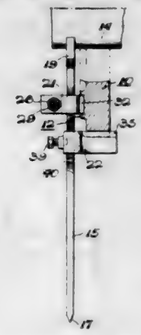
gitudinally bowed whereby the forward and rearward ends rest against the body and serve as supports and whereby the wings remain in outspread positions.

2,535,446
CARRIER COMMUNICATION SYSTEM
Doren Mitchell, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 16, 1948, Serial No. 33,410
10 Claims. (Cl. 179—2.5)



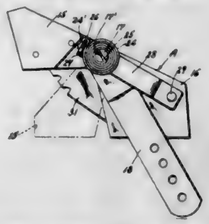
1. In combination with a carrier telephone system comprising a wave transmission medium and a plurality of subscriber carrier telephone stations and a common carrier terminal having an associated central switching office, connected over said medium, said subscriber stations and said carrier terminal including means for enabling the transmission in opposite directions therebetween over said medium of voice signals on carrier waves of respectively different high frequencies; manually operable means at each subscriber station for conditioning the station for transmitting a call and for sending out a pilot tone of a frequency slightly above the voice frequency range and different for each station over said medium to said carrier terminal and means including means at said carrier terminal responsive to the pilot tone received thereat over said medium for indicating the call at said associated central office and for identifying the calling subscriber station thereat.

2,535,447
FLYWHEEL TURNING LEVER
Ives W. Nelson, East Baton Rouge, La.
Application August 26, 1947, Serial No. 770,610
6 Claims. (Cl. 81—90)



1. A tool for turning a flywheel or the like mounted on a crankshaft, comprising an elongated handle having an arcuate head portion engageable with said crankshaft, said flywheel having in one face an annular groove bounded by inner and outer cylindrical side walls and peripheral gear teeth, and upper and lower adjustable members mounted on said handle adapted to operatively engage with the walls of said groove and said teeth respectively for angularly adjusting the flywheel and its crankshaft.

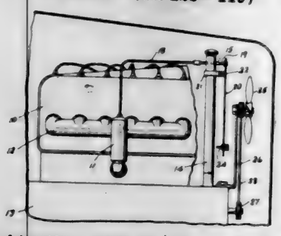
2,535,448
COUNTERBALANCED HINGE STRUCTURE
Richard A. Nowell, Los Angeles, Calif., assignor to Metal Products, Inc., Los Angeles, Calif., a corporation of California
Application April 2, 1948, Serial No. 18,538
7 Claims. (Cl. 5—57)



4. In a multiple position hinge structure, a pair of hinge leaves, a hinge pin pivotally joining said leaves, a pin-supporting arm adapted to be fixed to a support and on which said pin is fixed as a non-rotatable and substantially horizontal axis around which said leaves may be swung upwardly and downwardly, a locking means which holds said leaves against relative hinge movement and which when released allows said leaves to be relatively moved, a flat spiral spring coiled around said pin to one side of said leaves and fixed at its inner end to said pin, a lever arm fixed adjacent one end to one leaf of said pair of leaves and having an opening intermediate its ends through which said pin extends so that said lever arm may turn around said pin, and coacting portions on the outer end of said spring and on the outer end of said lever arm for securing the spring to the lever arm so that when said one leaf is swung upwardly said spring will unwind and assist in

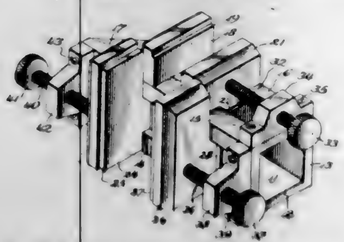
such movement of said leaf and on downward swinging of said one leaf will wind up so as to resist such downward movement.

2,535,449
GAS SAVING DEVICE
Allan Charles Olan, Niagara Falls, Ontario, Canada
Application September 20, 1948, Serial No. 50,142
1 Claim. (Cl. 123—119)



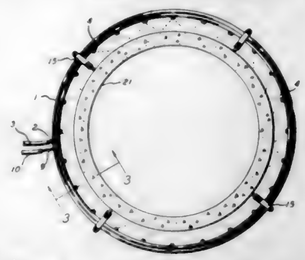
In combination with the breather pipe of an internal combustion engine, a valve comprising a tubular body having an inlet port communicating with the breather pipe, a discharge port communicating with the intake manifold of said engine, a member reciprocably mounted in said body for opening and closing the inlet port, a plate adapted to be pivotally mounted on the breather pipe and having its upper end connected to said member, a blower adjacent said plate for directing an air current against said plate to move it and actuate said member, said blower being driven by the engine and a spring acting on said plate urging it towards a vertical position and resisting movement under the force of the air current.

2,535,450
VISE TYPE FIXTURE HAVING TWO PAIRS OF JAWS
Charles E. O'Malley, Chicago, Ill.
Application May 25, 1948, Serial No. 29,045
5 Claims. (Cl. 81—33)



1. A vise type fixture for positioning and clamping material to be worked upon comprising a body member, a pair of rail means on said body member, said rail means including first and second guide surfaces having respective planes at an angle to each other, a pair of movable jaws cooperable to clamp a work piece, each of said jaws having a non-clamping side surface slidably supported on said first guide surface and extending beyond said second guide surface, a single movable jaw slidably supported on said second guide surface, said single jaw having a non-clamping side surface coplanar with said first guide surface, and a fixed jaw having a non-clamping side surface coplanar with said first guide surface and being cooperable with said single movable jaw to clamp a work piece, whereby the side surface of one of the pair of movable jaws and the side surface of said single movable jaw are slidable in adjacent parallel planes so as to be movable across each other, and the side surface of the other of the pair of movable jaws is slidable in a plane parallel to an adjacent plane containing the side surface of the fixed jaw so as to be movable across the latter surface.

2,535,451
PAINTING DEVICE FOR ROUND SURFACES
Festus C. Phillips, Granbury, Tex.
Application November 5, 1947, Serial No. 784,234
3 Claims. (Cl. 91—45)

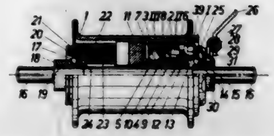


1. A device for painting a cylindrical surface, comprising a flexible annular paint supplying tube, the ends of which are arranged in overlapping relation with respect to each other, inwardly directed nozzles supported by and communicating with the said tube, and roller means supported by the said tube for spacing the said nozzles from the surface to be painted.

2,535,452
LIGHTER USING GASEOUS FUEL
Marcel Quercia, Paris, and Georges Ferdinand, Nogent/Marne, France
Application June 26, 1947, Serial No. 757,314
In France May 6, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires May 6, 1962
9 Claims. (Cl. 67—4.1)

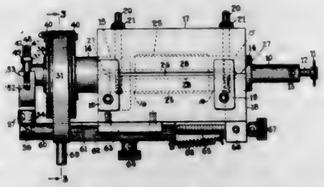
3. A fuel storage and discharge unit for a lighter, comprising in combination, a closed storage container; solid absorbent material within said closed storage container; liquified butane absorbed by said solid absorbent material; an outlet conduit connected at one end to said closed storage container communicating with the space within the same and being open at its other end; and adjustable flow-restricting means arranged in said outlet conduit spaced from the open end of the same and said solid absorbent material in said closed storage container, so as to form two gas expansion chambers, one located between said solid absorbent material in said closed storage container and said flow-restricting means, and the other located in said outlet conduit between said flow-restricting means and said open end of said outlet conduit.

2,535,453
BICYCLE HUB DYNAMO
Alfred Rabl, Vienna, Austria
Application May 11, 1949, Serial No. 92,539
In Austria May 13, 1948
13 Claims. (Cl. 171—209)



1. A bicycle hub dynamo provided with a multistage transmission gearing consisting of axial thrust ball bearings arranged between the dynamo armature and the driving part, and adapted to be selectively thrown in and out, comprising: pressure means for exercising axial pressure in opposite directions upon the races and balls of two adjacent gear stages, and an axial thrust bearing for holding said two gear stages together against the pressure exercised upon them by said pressure means.

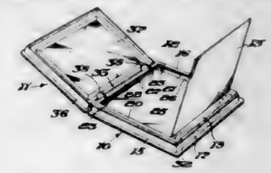
2,535,454
AIR LUBRICATED THRUST BEARING
Joseph A. Rawlins, Tenafly, N. J., assignor to The Sperry Corporation, a corporation of Delaware
Original application October 5, 1945, Serial No. 620,523. Divided and this application June 17, 1948, Serial No. 33,532
2 Claims. (Cl. 308—161)



1. A gas lubricated thrust bearing for a high speed rotary spindle comprising a disc mounted on said spindle, a spacing ring surrounding the disc, means independent of the disc supporting the ring radially spaced from the disc while permitting relative universal movement of the ring, a pair of annular plates slidably mounted on the spindle on opposite sides of the disc and ring, and spring means bearing on the outer faces of the plates and axially urging them toward the disc and ring while permitting movement of the plates to increase the normal spacing between the plates and disc in response to pressure developed therebetween.

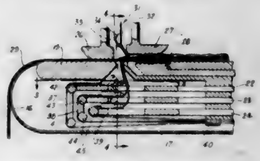
2,535,455
COMPACT
Alfred F. Reilly, North Attleboro, Mass., assignor to Evans Case Co., a corporation of Massachusetts
Application June 10, 1948, Serial No. 32,145
1 Claim. (Cl. 220—36)

A receptacle comprising a body having bottom and side walls, one of said side walls having spaced slots therein, a cover hinged to the slotted side wall to provide a closure therefor, a container slidably mounted in said body, a spring acting between said container and body to urge the container in the direction of said slotted side wall, spaced cams fixed to the cover and acting



through said slots, said cams contacting the adjacent wall of the container for urging the container in the other direction against the action of said spring, a door on said container and means responsive to the movement of the container relative to the body for actuating the door on the container.

2,535,456
EMBROIDERING MACHINE
Pedro Valls Rius, Igualada, Spain
Application March 23, 1946, Serial No. 656,708
5 Claims. (Cl. 112—98)

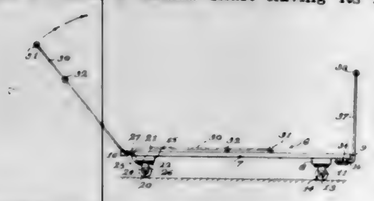


1. An embroidery machine comprising a fabric-support, said fabric support having an outer face along which fabric is moved and also having an inner face, said fabric being forwardly movable across said outer face, means for moving said fabric forwardly and intermittently along said outer face in a selected longitudinal direction, said support having an opening therein, movable clamping means for clamping said fabric to said support forwardly and rearwardly of said opening between intermittent movements of said fabric, an embroidery needle which has a shank and an engaging end at the tip of said shank, said engaging end being shaped and adapted to engage an embroidery thread, said needle being transversely movable to and fro relative to said fabric support through said opening in a respective inserting movement in which said engaging end of said shank is inserted through said opening and in a respective reverse movement in which said engaging end of said shank is moved out of said opening, a carrier-plate located at said inner face, an embroidery thread-distributor fixed to said carrier plate, operating means for moving said carrier plate longitudinally forwardly and rearwardly and for moving said carrier plate laterally back and forth relative to said longitudinal direction.

2,535,457
MOVING TRUCK
William F. Roberts, Crawford, Nebr.
Application August 5, 1949, Serial No. 105,815
4 Claims. (Cl. 280—47)

1. A moving truck for heavy articles comprising an elongated platform having a front end and a rear end, bearing means secured to and

depending from said platform adjacent its rear end and transversely thereof, an elongated roller, a shaft extending axially therethrough and having ends protruding from the ends thereof and journaled in said bearing means and transversely of the platform for supporting the rear end of the truck platform, a truck element swivelly mounted intermediate of its ends on the underside of said platform adjacent its forward end and centrally of its side edges, a bearing bracket secured to and depending from said truck element adjacent each of its ends, said bearing brackets having aligned bearings, a second elongated roller, a second shaft having its inter-



mediate portion extending axially through said second roller and fixed therein and having its ends journaled in the bearings of said bearing brackets, each of said bearing brackets including a forwardly extending upwardly curved arm, and a substantially U-shaped handle having terminal portions of the legs thereof pivotally connected to said arms, said handle being adapted to be manually engaged for pulling and steering the truck, the corners of the forward end of said platform being cut away to provide notches into which the free ends of said arms extend for limiting the swivel movement of the truck element relatively to the platform.

2,535,458

PRODUCTION OF FORMALS

Max O. Robeson, Corpus Christi, Tex., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 29, 1948, Serial No. 30,181

10 Claims. (Cl. 260—615)

1. Process for the production of formals by the reaction of an alcohol with formaldehyde in the presence of an acid catalyst, which comprises mixing the alcohol and acid catalyst with a water-immiscible entraining agent forming a constant boiling azeotrope with water, heating the mixture to about reflux temperature, slowly adding aqueous formaldehyde to the mixture while refluxing the latter and continuously removing the water of reaction as formed from the reaction mixture with the aid of said entraining agent.

2,535,459

PETTICOAT

Sylvia Roodner, New York, N. Y.

Application February 3, 1950, Serial No. 142,250

2 Claims. (Cl. 2—211)

1. A petticoat garment made of woven fabric, said garment having a vertical axis, said body having a main body-portion which comprises a main body pattern-piece having a bottom edge and a top edge and side-edges which are inclined to said bottom edge and said top edge, said pattern-piece having a vertical pattern-axis, the warp-threads of said vertical pattern piece being substantially perpendicular to said vertical pattern-axis, said body also comprising a tapered insert which tapers downwardly at its side edges from the top edge of said insert, said insert having a vertical insert-axis, the insert having its warp threads inclined to said insert axis, the side edges of said insert being fixed to the upper portions of the side edges of said main body pattern-

piece, said side edges of said main body pattern-piece being fixed to each other below the bottom of said insert, the warp threads of said main body being inclined to the vertical axis of said garment at one side of the garment and being perpendicular to said vertical axis at the opposite side of said garment.

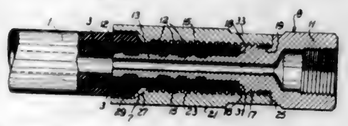
2,535,460

HOSE COUPLING

Lutwin C. Rotter, Maplewood, and Albert T. Laspe, Normandy, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application February 17, 1947, Serial No. 728,972

6 Claims. (Cl. 285—84)



1. A hose coupling for a resilient hose having a deformable metal core spaced from its inside and outside resilient surfaces; comprising a hollow nipple having a threaded shoulder and a tubular stem from the shoulder inserted within the end of the hose, said hose at its end having its core exposed, the inside diameter of the threads of the shoulder being greater than the outside diameter of the exposed core, and an internally threaded ferrule threaded to the shoulder and having part of its threads swedged to the exposed core.

2,535,461

ARTICLE DISPENSING SYSTEM

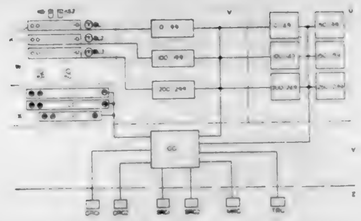
Thomas S. Skillman, Mosman, near Sydney, New South Wales, Australia, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company of New South Wales, Australia

Application October 6, 1947, Serial No. 778,195

In Australia October 14, 1946

11 Claims. (Cl. 235—61)

1. A system for dispensing articles of varied character, comprising: a plurality of storage devices, each including an electrically operated releasing means for dispensing stored articles from said storage devices; switching means, selectively actuatable for actuating any said releasing means; registering means and electrical connections therefrom to said releasing means and operable by said releasing means to register the value of each article selected; adding means and electrical connections therefrom to said registering means and controlled thereby to totalize the values of a plurality of articles selected; indicating means and connections therefrom to said adding means, for indicating



the totalized values thereof; and means including an electrical contact device, operably for actuating said indicating means.

2,535,462

CONTINUOUS FREEZING MACHINE

Carl R. Stoelting, Oconomowoc, Olof E. Stamberg, Waukesha, and Ernest F. Vilter, Milwaukee, Wis., assignors to Industrial Research Laboratories, Milwaukee, Wis., a corporation of Wisconsin

Application August 4, 1948, Serial No. 42,404

6 Claims. (Cl. 62—114)

1. In a continuous freezer, a freezing cylinder adapted to continuously receive a mix at one end and discharge a frozen product at the other end, an evaporator surrounding a portion of said cylinder and adapted to receive compressed liquid refrigerant, and a coil around another portion of the cylinder and connected to the evaporator to receive and superheat the gaseous refrigerant leaving the evaporator.

2,535,463

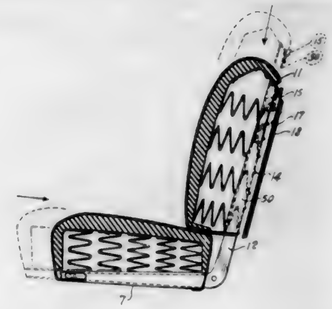
AUTOMOBILE SEAT

Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan

Application October 23, 1947, Serial No. 781,671

3 Claims. (Cl. 155—184)

1. A seat assembly in combination, a seat back frame having secured along the back near the top a strip with an offset portion to form a receiving groove, a seat bottom frame adapted to be assembled into a unit with the seat back frame, and a trim panel comprising a base of sheet material with the top edge turned over to form a hook, and trimming secured over the sheet material base and concealing the turned over edge, the said trimming panel assembly being secured to the seat assembly by hooking the turned over edge in the groove formed in the offset strip at



the top of the seat back and the forwardly extending ends of the trim panel at the bottom lapping over the ends of the seat bottom and secured thereto.

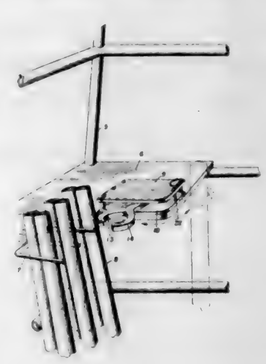
2,535,464

AUTOMATIC ROTARY DRILL PIPE HOLDER

Shirley T. Tisdale, Ada, Okla., assignor, by mesne assignments, of five per cent to Claude V. Thompson, and five per cent to Mack M. Braly, both of Ada, Okla.

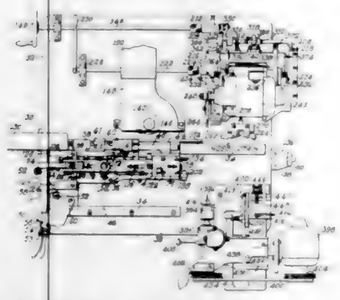
Application April 7, 1947, Serial No. 739,934

3 Claims. (Cl. 214—1)



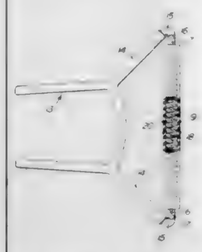
1. A drill pipe holder comprising upper and lower spaced apart plates, a pair of jaws pivoted to each other and also pivoted between the plates for swinging horizontally from a position at one side edge of the plates toward the front edge thereof, said jaws having diverging edges at their outer ends to automatically open and guide a pipe section into the jaws, spring means closing the jaws, a plurality of registering apertures in said plate, a stop receivable in selected of said apertures to limit forward swinging movement of the jaws, spring means returning the jaws to a position at the side of the plates, and resilient means urging said jaws in cooperative relation against said lower plate.

2,535,465
APPARATUS FOR FORMING A HINGE SURFACE ON A LAST BLOCK
Laurence E. Topham, Wenham, and Garrett P. S. Cross, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 14, 1945, Serial No. 577,750
2 Claims. (Cl. 144—136)



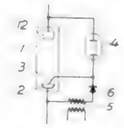
1. An apparatus for operating on a last-part block, the apparatus comprising relatively movable units, one a cutting unit and the other a work-holder, and guiding means by which their relative feeding movement is constrained to a straight path, the work-holder including cooperative coaxial trunnions the axis of which is parallel with said path, said trunnions being arranged to project into the ends of a hole extending widthwise through a work block, and the cutting unit having a rotary formed cutter for generating a cylindrical hinge surface on the block in consequence of relative feeding movement of the units along said path.

2,535,466
SHOCK ABSORBING HANDLE FOR POWER MOWERS
C. Neal Turner, Prophetstown, Ill., assignor to The Eclipse Lawn Mower Co., Prophetstown, Ill., a corporation of Illinois
Application August 24, 1948, Serial No. 46,831
2 Claims. (Cl. 16—111)



1. In a power mower handle divided at both ends and having cross-bars connecting the two sides of the handle; the handle extremities remote from the mower being hollow and having hook-shaped attaching members having one end extending into the extremities of the sides of the handle, a coil spring under tension connected to the hook members, said coil spring being surrounded by a hollow flexible member, and said spring and hollow flexible member serving to prevent transmission of vibrations from the power unit to the hands of the user.

2,535,467
IONIC VALVE WITH RESISTANCE IGNITER
Erich Uhlmann, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application December 24, 1948, Serial No. 67,233
In Sweden December 31, 1947
5 Claims. (Cl. 315—261)

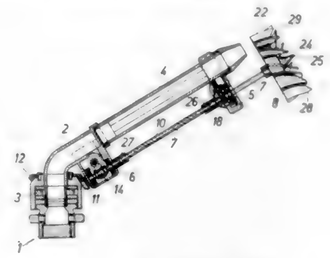


1. An ionic valve comprising an evacuated vessel having a liquid cathode and at least one main anode therein, a resistance igniter permanently immersed in said cathode, at least one current source, means for periodically connecting a current source to said igniter for imparting ignition voltage impulses thereto, and additional means for connecting a current source to said igniter and cathode, said last means furnishing a unidirectional current from said igniter to said cathode.

2,535,468
COMBINATION COUPLING PIN AND LIFTING HOOK
Albert J. Von Bank, Armstrong, Iowa
Application June 10, 1949, Serial No. 98,367
3 Claims. (Cl. 280—33.15)

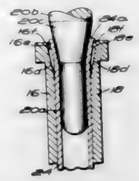
3. A combination coupling pin and lifting hook comprising a rod having a lower portion defining a coupling pin, a hook pivotally connected to the rod above the coupling pin for swinging movement in a plane substantially parallel to the axis of the pin, said hook being gravity urged to swing toward the pin for positioning the free end of the hook in a position adjacent the coupling pin, said hook functioning as a stop means to releasably retain the coupling pin in engagement with openings of elements to be coupled thereby, and said pin functioning as a closure for the hook opening for retaining the hook in engagement with elements to be lifted thereby, said rod having a laterally projecting opposite, upper end disposed remote to the hook and coupling pin and forming a handle, a manually actuated lever element pivotally mounted on the rod adjacent said handle, a link pivotally connected to the lever element and to said hook for swinging the hook on its pivot upwardly and away from the coupling pin when said lever element is swung toward the handle, and a collar fixed to said rod between the coupling pin and the pivoted end of said hook and forming a stop for limiting the downward swinging movement of the hook toward the coupling pin and additionally functioning as a stop for supporting the coupling pin applied to openings of elements to be coupled thereby.

2,535,469
SPRAYER
Karl G. Wanke, Vienna, Austria
Application December 23, 1947, Serial No. 793,389
In Austria October 5, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 5, 1966
2 Claims. (Cl. 299—18)



1. In a wide angle sprinkler head of the type including a rotatable spray nozzle adapted to issue a jet, an axially impacted free jet turbine including a hub carrying a plurality of blades arranged in the path of the jet, said blades being curved and developed in the portions projecting forward of the turbine hub as right-angled triangles the hypotenuse of which is formed by the edges of the blades opposite the direction of motion.

2,535,470
METHOD OF FLARING TUBING
James R. Welshman, Cranston, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware
Original application November 11, 1943, Serial No. 509,931, now Patent No. 2,437,285, dated March 9, 1948. Divided and this application February 26, 1948, Serial No. 11,120
1 Claim. (Cl. 153—79)

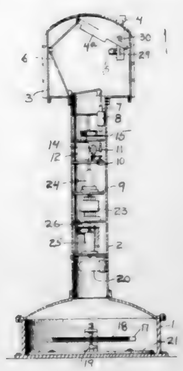


The method of forming a tapering flared portion on tubing which comprises holding an unflared portion of the tubing on one side of the portion to be flared against displacement in the direction of the axis of the tubing and holding the external surface of the tubing on the other side of said portion to be flared against displacement in direction radial to said axis, applying an increasing frictional force solely to the inner surface of the tubing between its end and the unflared surface, the axial components of said force simultaneously displacing in direction along the axis a portion of the wall of the tubing whose external surface is being held against radial displacement, and the radial components of said force displacing the wall of said tubing at said portion to be flared outward progressingly from the said unflared portion to form the desired tapering flared portion.

2,535,471
TELEVISION TRANSMITTER SWITCHING APPARATUS
Eric Lawrence Casling White, Iver, and Frank Runcorn Trott, Burnham, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application February 12, 1947, Serial No. 728,120
In Great Britain January 15, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires January 15, 1966
5 Claims. (Cl. 179—7.1)

1. A television transmitter system including a plurality of pick-up devices for individually producing a corresponding plurality of video signals and wherein all of the pick-up devices are operated synchronously to simultaneously scan target electrodes contained therein in a succession of frame scanning cycles and a single transmission channel for the transmission of only one of the produced plurality of video signals at any time, comprising switching means for selectively connecting the transmission channel to a desired one of the pick-up devices, said switching means being adapted to be manually conditioned for operation, and means for confining the actual switching operation to intervals between successive frame scanning cycles.

2,535,472
DELAYED-ACTION ZERO SET FOR PARKING TIME METERS
Straud K. Wood, Hutchinson, Kans.
Application November 14, 1949, Serial No. 127,091
5 Claims. (Cl. 161—15)



1. In a parking meter, a zero set mechanism indicating violation or expiration of parking time, a magnetic switch closed by movement of a vehicle from a parking space, a timing device actuated by closing of the magnetic switch to operate the zero set mechanism, and a master switch opened by the zero set mechanism to de-energize the magnetic switch and timing device.

2,535,473
APPARATUS FOR APPLYING BOTTLE COLLARS
Walter L. Wolford, Oakland, Calif., assignor to Clorox Chemical Co., Oakland, Calif., a corporation of Delaware
Application October 11, 1947, Serial No. 779,379
7 Claims. (Cl. 216—61)

7. Apparatus for applying perforated paper blanks to cased bottles to serve as collars thereon comprising, a rack to support blanks in stacks spaced to correspond to the spacing of bottles in a case, means on the rack to hold the blanks in curved position for ready application to bottles, a transfer member adapted to be lowered over the rack, means on the transfer member to lift a single blank from each stack, and means on the transfer member to hold the lifted blanks in their curved positions and to release the blanks when the transfer member is lowered over a case of bottles and the blanks are engaged with the bottle necks.

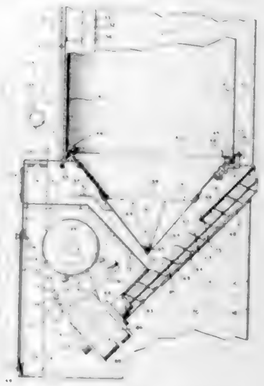
2,535,474
ROTATABLE CHANCE DEVICE
Anselmo Rodriguez Zerpa, Habana, Cuba
Application March 19, 1946, Serial No. 655,514
2 Claims. (Cl. 273—143)

1. A game apparatus including a base, a rod of uniform diameter carried by and extending upward from the base, a series of disk-like elements slidably mounted on the rod, the periphery of each element being formed with angularly related faces, each angular face bearing indicia, a vertically disposed guide secured to the base and parallel with and spaced from the upwardly extended portion of the rod and terminating at its upper end approximately half-way up the length of the rod, the face of the guide spaced from the rod corresponding to at least one of the faces of the periphery of the disks, so that parts of the peripheries of the disks will fit in the guide and prevent said disks from turning when dropped down from the top part of the rod.

2,535,475
UREA FORMALDEHYDE RESINOUS PRODUCT
Bruce E. Anderson, Atlanta, Ga., assignor to Don Gavan Company, Atlanta, Ga.
No Drawing. Application December 14, 1945, Serial No. 635,106
4 Claims. (Cl. 260—29.4)

4. A method of preparing a moldable plastic composition comprising grinding a solid methylolurea having the least possible degree of polymerization with a filler material in the presence of a methylolurea solvent selected from the group consisting of ethylene diamine, mixtures of ethylene diamine and isopropyl alcohol and mixtures of ethylene diamine and water.

2,535,476
MATERIAL HANDLING APPARATUS
Clifford H. Anderson, Minneapolis, Minn.
Application March 7, 1947, Serial No. 733,006
5 Claims. (Cl. 214—1.1)



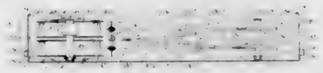
2. In material handling apparatus a support, a cradle, means on said cradle for securing thereto a container having an opening at the upper portion of the same, a conical hood adapted to overlie said opening and close the same, said hood having an opening therein extending along an element of the same, a valve member pivoted to said hood at the apex thereof and rotatable to cover or uncover said opening, means acting between said cradle and support for raising and inverting said container, and a hopper carried by said support and positioned below said hood when the container is inverted to receive the material discharged therefrom through said opening in the hood.

2,535,477
METHOD OF FABRICATING THERMOMETERS
Ernst Carl Andrae, Stockholm, Sweden
Application April 24, 1946, Serial No. 664,579
In Sweden October 19, 1944
7 Claims. (Cl. 29—148.2)

1. A method of fabricating a thermometer containing hydrogen under pressure wherein a first reactant comprising water and a second reactant comprising a hydrogen-replacing metal capable of reacting with the water to form hydrogen are added to thermometer tube, which comprises adding one of the reactants to the tube, constricting the internal diameter of the tube at a point in the tube above the location of said reactant, adding the other reactant into said tube above said constriction, sealing the tube at a point in the tube above the other reactant, and

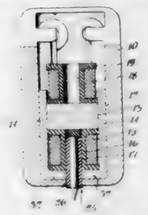
bringing the two reactants into proximity so that the reaction proceeds and the hydrogen is generated in the tube.

2,535,478
MAGNETIC RECORDING AND REPRODUCING APPARATUS
John P. Arndt, Jr., Euclid, and Cary B. Jones and Semi Joseph Begun, Cleveland Heights, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application August 22, 1944, Serial No. 550,571
26 Claims. (Cl. 179—100.2)



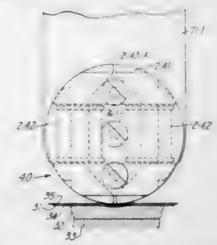
1. In a magnetic record transducing apparatus for transducing magnetic signals on a moving magnetic record track by magnetic flux interlinkage between a magnetic record transducer structure and successive elemental portions of the track: two revolvably mounted reels; an elongated filamentary magnetic record track having its end portions held respectively on said two reels and an intermediate portion extending between said reels so that when said track is wound on one reel it is unwound from the other reel, the change in the amount of track wound on a reel changing the diameter of the winding on the reel and the required relative speed of rotation of the reels; said reels forming part of guide means including impelling means for guiding and impelling an intermediate track portion of said record track along a predetermined path past said magnetic transducer structure and level wind guide structure for cyclically winding the record track turns on the reels in level layers of turns; said filamentary record track being of small cross section and having a tendency to break under the action of impelling forces; a drive unit including a motor and rotatable power take-off elements for supplying power to the said impelling means; a restorably-yieldable, reversible energy transmitting interlinkage between said reels for causing the rotation of one reel to drive the other reel at such differential speed correlated to the diameters of the reel windings as to reel the record track from one reel to the other and maintain the intermediate track portion under tension during the reeling of substantially the entire length of said track; the revolvable mountings of the two reels being readily detachable from the drive unit and arranged for quickly and easily removing both reels together, and the restorably-yieldable, reversible energy transmitting interlinkage including restraining means for preventing the dissipation of energy by the interlinkage when the reels are disengaged from the drive unit.

2,535,479
MAGNETIC PICKUP
Robert J. Aust, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application May 20, 1947, Serial No. 749,271
3 Claims. (Cl. 179—100.41)



1. In an electric pickup, a pair of parallel, spaced, generally L-shaped pole pieces having their bases arranged to define an air gap, a permanent magnet engaging the parallel portions of said pole pieces, a generally cylindrical coil form mounted within the magnetic structure defined by said magnet and said pole pieces, said coil form having an axial passage extending therethrough, a pickup coil wound on said form, a spacer of insulating material disposed in said passage in engagement with said magnet, and a stylus assembly mounted in said passage with one end thereof engaging said spacer and the other end thereof extending through said air gap, said assembly including a sleeve of resilient material and a stylus having a paramegnetic portion embedded in said resilient sleeve.

2,535,480
MAGNETIC RECORDING AND REPRODUCING
Semi Joseph Begun, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application August 27, 1945, Serial No. 612,728
14 Claims. (Cl. 179—100.2)



14. In a magnetic record transducing apparatus for recording or reproducing signals on successive elements of a relatively moving magnetic record track surface of a deformable record stratum containing magnetizable material; a record transducing head comprising a magnetic core structure constituting a substantially closed magnetic circuit and having pole tips separated by a substantially non-magnetic gap for contact with a contact portion of the record track surface, and magnetic linkage of track surface elements bridging the gap with flux variations

corresponding to the signals; said core structure having core elements held in operative position by substantially non-magnetic mounting elements beyond which said pole tips project in an outward direction toward the contacting track surface portion; both projecting pole tips having outwardly facing convex pole faces aligned on opposite sides of the gap to form parts of a generally continuous elongated smoothly-curved pole guide surface convex in outward direction and bordering the opposite sides of the gap; guide means including a guide structure underlying said deformable record, stratum and supporting an extended portion thereof longer than the pole faces for movement with its track surface past and in contact with said pole tips along a guide path which at said contact portion diverges from and is less convex in said outward direction than said pole-guide surface; and biasing means for pressing both pole faces and the guide structure toward each other and causing a continuous moving surface portion of the deformable stratum overlying said guide structure to be flexed against said substantially continuous convex pole-guide surface and to be guided toward and away from said gap along a substantial length of both pole faces in the absence of tensioning forces tending to tension said deformable stratum in the direction of its motion.

2,535,481

DEMAGNETIZING APPARATUS FOR MAGNETIC RECORDERS

Semi Joseph Begun, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application October 15, 1946, Serial No. 703,343
1 Claim. (Cl. 179—100.2)

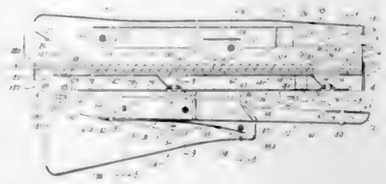
In a magnetic record transducing apparatus for magnetically recording signals of the audio-frequency range on successive elements of a substantially demagnetized permanently magnetizable elongated record track; means for driving said record track in a forward direction at a given speed during recording and at said same given speed during erasing, said means for driving including an alternating current motor energizable with 60 cycle-per-second alternating electric current; an erasing head comprising a winding and a substantially closed elongated magnetic core interlinked with said winding and confining in said core the major part of the flux induced by electric currents in said winding, said core having along its outer surface a substantially continuous, elongated, exposed, convex guide surface for guiding thereover a substantial length of said record track as said record track is driven along a predetermined guide path portion extending substantially entirely on one side of said core so that at least a portion of said guide surface constitutes a contact portion which is in engagement with successive portions of the moving record track, the cross-sectional area of said core at the location where said record track first engages it being a minimum, forming a relatively short saturating region, and increasing gradually toward the end region of said guide surface in the forward direction of motion of said record track along said guide path; means for connecting said winding to 60 cycle-per-second alternating electric current for magnetizing said core to establish a record track saturating field in the said short saturating region and to establish in the distance between said short saturating region and said end region a flux field alternating at 60 cycles-per-second and to establish in said record track moving through said field at said given rate of speed at least three wave lengths decaying in intensity from said saturating region toward said end region where the field intensity is of such magnitude and the direction of the field is such as to substantially neutralize each successive elemental portion of the record track as it leaves said end region.

2,535,482

HAND STAPLER

Frank S. Boroughs, New York, N. Y., assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y., a corporation of New York

Application March 25, 1948, Serial No. 17,040
14 Claims. (Cl. 1—49)



1. A stapler comprising a main frame formed with a slot, an anvil arm pivoted to the main frame, a pin on the anvil arm passing through said slot, a handle pivoted to said pin, a driver arm pivoted to the main frame, a link interconnecting the handle with the driver arm, a staple magazine within the main frame, and a driver blade slidably mounted at the forward end of the staple magazine and engaging said driver arm.

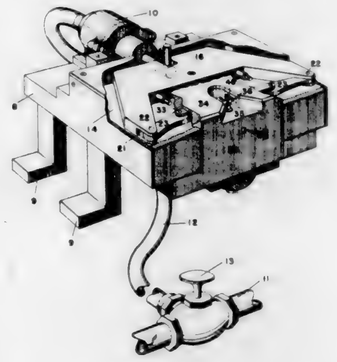
2,535,483

CANNON PINION INDENTING FIXTURE

Gilbert C. Childs, III, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.

Application March 2, 1949, Serial No. 79,229
2 Claims. (Cl. 153—48)

2. A cannon pinion indenting machine comprising a base, a pair of parallel rods carried by said base, a cross-head mounted on said rods for sliding movement, means for operating said cross-head, an adjustable stop for limiting the travel of said cross-head, means for locking the stop in adjusted position, a pair of slides mounted in said base for movement at right angles to said cross-head, means connecting said cross-head to said slides whereby movement of the cross-head is transferred to the slides, a tube slidably mounted in said base at right angles to said slides, an adjusting nut rotatably carried by said base and threaded onto said tube to provide means for vertically adjusting the tube, a cannon pinion supporting fixture frictionally held at its lower end in said tube, the upper end being reduced to allow a certain limited movement of the fixture within the tube, said fixture between the upper and lower portions being of narrowed rectangular cross-section to provide flexure in the direction of movement of the slides while insuring stability at right angles to such movement, means for locking said tube in adjusted position so that cannon pinions carried by said fixture in said



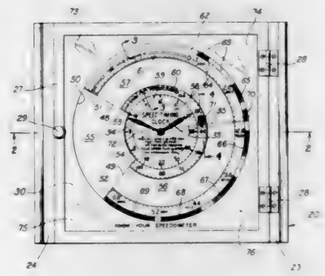
tube can be successively placed on said fixture and bear exactly the same relative position to said slide, anvils carried at the opposing ends of said slides and adapted to simultaneously contact opposing sides of the cannon pinion, the narrowed flexible portion of said fixture providing automatic means for insuring simultaneous contact of the anvils.

2,535,484

DISPLAY AND ADVERTISING APPARATUS

Hugh V. Conroy, New York, N. Y.

Application May 22, 1946, Serial No. 671,632
9 Claims. (Cl. 161—15)



1. A display apparatus comprising a casing having spaced front and back walls, a timepiece mechanism in the casing, a dial in the casing intermediate and spaced from said walls, said dial having a clock face portion, the timepiece having minute and hour hands movable over said clock face portion in designating time, a second hand actuated by said timepiece mechanism and having an end portion extending radially beyond said clock face portion, the dial having two circumferential bands arranged radially outward with respect to said clock face portion and in spaced relationship to each other, and indicator elements on the outer end portion of the second hand movable over said bands.

2,535,485

CORN HUSKING MACHINE

Ralph Cover, Westminster, Md.

Application February 1, 1945, Serial No. 575,654
6 Claims. (Cl. 130—5)

1. In a husking machine, cooperatively opposing longitudinally and helically ribbed husking rolls disposed side by side, means including a spiral gear drive couple for each roll for causing said rolls to rotate in unison with the ribs thereon interfitting but always in slightly spaced relation, and means for longitudinally-adjustably mounting one said roll.

2,535,486

MAGNETIC RECORD TRANSDUCING APPARATUS HAVING A BACKING ELEMENT FOR COUPLING A RECORD TAPE TO THE MAGNETIC HEAD

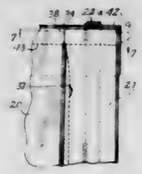
Alfred P. Dank, Euclid, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application August 16, 1946, Serial No. 690,878
30 Claims. (Cl. 179—100.2)

4. In a magnetic record transducing apparatus for transducing magnetic records on successive elements of a moving tape having a relatively wide permanently magnetizable record surface on one operative side and an opposite side of the same width, the combination comprising: guide means including two reels for storing the tape and arranged to guide said tape between said reels along an elongated guide path with the operative side facing in one direction and the other side facing in an opposite direction; a magnetic record transducing head comprising a magnetic core provided with an outwardly exposed magnetic-pole core face with said core extending substantially entirely along one side of said core face; a backing element having a backing face for cooperation with said core face; said core and said backing element being mounted for relative movement between a non-transducing condition in which said core face is separated from said backing face for receiving therebetween said tape, and a transducing condition in which said core face and said backing face are biased to contact the opposite sides of one portion of the tape

along said guide path for pressing the operative side of the tape into stable magnetic engagement with said core face; said guide means including power-energizable impelling means selectively settable either in a transducing setting in which the impelling means impels said tape at a desired low transducing speed in a transducing manner, or at a higher non-transducing speed in a non-transducing setting in which said impelling means impels said tape in a non-transducing manner; said impelling means including a revolvable drive element arranged to selectively operate either in a non-transducing condition in which said drive element does not impel said tape or in a transducing condition in which said drive element impels said tape in a transducing manner when said impelling means is energized; and operating means operative in accordance with the setting of said impelling means for causing said magnetic core and said backing element and also said drive element to be maintained in a transducing condition when said impelling means is in the transducing setting, and for causing said core and said backing element and also said drive element to be maintained in a non-transducing condition when said impelling means is in the non-transducing setting.

2,535,487
TROUSER FLY CONSTRUCTION
Nicholas Di Pietro, Philadelphia, Pa.
Application June 11, 1949, Serial No. 98,490
8 Claims. (Cl. 2—234)

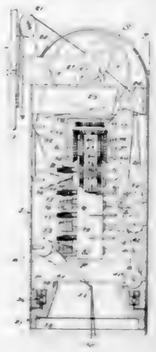


1. A method of forming the fly-portion of a pair of trousers which comprises cutting a leg-panel and a fly-panel having correspondingly curved free edges, assembling said panels with a generally vertical row of stitching spaced inwardly from said free edges and terminating below the upper ends of said panels, unfolding the stitched-together panels and adjusting the upper ends thereof so that the said free edges of the leg-panel and fly-panel abut above the upper end of said generally vertical seam, attaching a waistband panel to the aforesaid unfolded stitched panels by a generally horizontal row of stitching disposed not below the level of the uppermost end of the first-mentioned vertical row of stitching, turning the waistband-panel so that it extends upwardly from said horizontal row of stitching, folding the turned-up waistband-panel along a vertical line extending upward generally in continuation of the free edges of the stitched-together fly-panel and leg-panel, forming another row of stitching extending vertically along the fly-panel and leg-panel generally in continuation of the first-mentioned row of stitching and extending upwardly therebeyond and through both plies of the folded waistband-panel, said last-mentioned row of stitching being curved adjacent the upper edge of the folded waistband-panel and terminating in a generally horizontal end-portion spaced somewhat below the uppermost free edge of said waistband-panel, trimming off the edges of the plies of material extending beyond the outer side of said last-mentioned row of stitching, and turning the stitched-together leg-panel, fly-panel and waistband-panel along said last-mentioned stitch-row thereby providing a generally continuous seam defined by the first-mentioned and last-mentioned rows of stitching having a rounded uppermost edge for the free end of the waistband and having a minimum of bulkiness at the juncture zone of the leg-panel, fly-panel and waistband-panel.

2,535,488
DEVICE COMPRISING A GAS TURBINE
Albert A. Dros, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 26, 1947, Serial No. 793,769
In the Netherlands April 25, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 25, 1966
3 Claims. (Cl. 290—4)

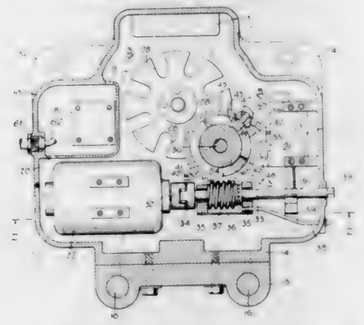
1. A power installation comprising a gas turbine, a first fluid medium compressor means, shaft means drivingly connecting said gas turbine to said first compressor means, a second fluid medium compressor means, first separate driving means for said second compressor means, conduit means for conducting the fluid medium outputs of both said first compressor means and said second compressor means to said gas turbine, electric motor means coupled to said shaft means, dynamo means for supplying electric power to said electric motor means, and second separate driving means for said dynamo means.

2,535,489
ARTIFICIAL ARM
Harold T. Edwards, Los Angeles, Calif.
Application March 5, 1947, Serial No. 732,509
3 Claims. (Cl. 3—12)



1. In an artificial limb a shoulder support; a first pulley mounted on said support for rotation in a vertical plane; a yoke extended laterally from and rigid with said first pulley; a second pulley rotatably mounted on the yoke in a plane perpendicular to that of the first pulley; an upper arm casing pinned to the second pulley to swing laterally towards and away from said shoulder support on rotation of the second pulley, said casing being supported upon and engaged by the yoke to swing in a plane perpendicular to said plane of lateral swinging movement on oscillation of the yoke responsive to rotation of the first pulley; a drive motor in said upper arm casing; and independent clutch controlled driving connections extending separately from said motor to the first and second pulleys respectively.

2,535,490
AUTOMATIC ELECTRIC INDEX FIXTURE
Melvin H. Emrick, Jamaica, N. Y.
Application May 20, 1949, Serial No. 94,340
8 Claims. (Cl. 192—2)



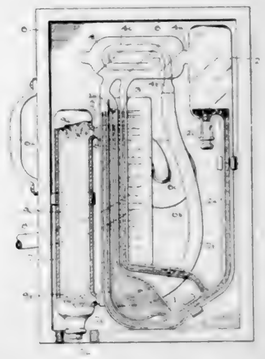
1. An apparatus of the class described comprising a casing, a workpiece supporting plate rotatably mounted on the casing, a Geneva engaging said plate for imparting intermittent rotation thereto, a drive unit for actuating said Geneva, said unit having worm gear, means comprising a motor driven worm engaging said worm gear for intermittently operating said Geneva, said unit including a cam portion, a lock pin slidably mounted in the casing and directly actuated by the cam portion of said unit to control movement of the lock pin into operative and inoperative position with respect to said plate in intermittently retaining the plate in predetermined position, and means comprising a switch in the casing adjacent said unit and in electric circuit with said motor and actuated by said unit to control intermittent drive of the unit.

2,535,491
STROKE SAW
Philip C. Felton, Norristown, Pa.
Application April 14, 1947, Serial No. 741,158
6 Claims. (Cl. 143—68)

1. In a portable stroke-saw the combination of a platform with spaced runners or skids thereunder and an opening in one side thereof, a motor secured on the forward portion of the platform in advance of the side opening, and said motor being of a size or weight effective to serve as a fulcrum or pivot about which the stroke-saw is turnable in either direction; an upright member lengthwise of the platform including a rearwardly extending manipulator hand-grasp one side thereof; brace elements rigidly securing and a laterally projecting steadying handle at the upright member to the platform and supports; means at one side of the upright member affording reciprocatory attachment for a saw blade, and a guide element at the lower end of said member for the back portion of the blade; means at the other side of the upright member jointly affording, with the top of said member,

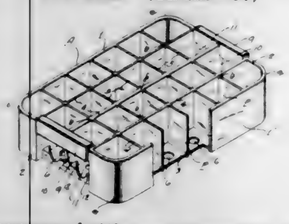
firm mounting for a stationary bearing; a shaft journaled in the bearing with a drive-pulley at one end and a fly-wheel at the other end; connector means coupling the fly wheel to the saw-blade reciprocatory attachment; and means operatively coordinating the drive-pulley to the output shaft of the power motor.

2,535,492
VACUUM GAUGE
Earl W. Flosdorf, Upper Darby, Pa., assignor to F. J. Stokes Machine Company, a corporation of Pennsylvania
Application September 24, 1943, Serial No. 503,693
2 Claims. (Cl. 73—395)



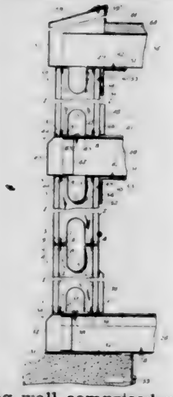
1. In combination, a vacuum gauge of the McLeod type, a vapor trap included in the vacuum connection of said gauge for excluding condensible vapors from said gauge and replacing said vapors with dry air, said trap including a material of the adsorptive type having an affinity for removing all types of condensible vapors and a material for protecting said adsorptive material from saturation by water vapor comprising a material forming a fixed hydrate when combined with water and having a vapor pressure of less than substantially 25 microns at room temperature.

2,535,493
BEVERAGE BOTTLE CASE
Albert J. Gerber, University City, Mo., assignor, by mesne assignments, to Beverage Sales Co., St. Louis, Mo., a corporation of Missouri
Application April 22, 1946, Serial No. 663,997
2 Claims. (Cl. 220—97)



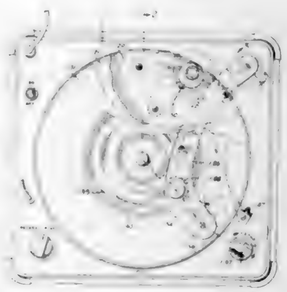
2. A beverage bottle case comprising integrally interconnected side, end, and bottom walls having a plurality of integrally interconnecting spaced parallel partitions extending longitudinally and transversely so as to divide the case into a plurality of rectangular cells for receiving beverage bottles, one of said longitudinally extending partitions being disposed along the longitudinal center line of said case, said side walls being integrally provided in the central portion of their upper margins with upwardly and outwardly extending handle elements, said handle elements being secured to the adjacent portions of the end faces of said central partition, said side walls being cut away beneath said handle elements, said cut-away area having a length slightly in excess of that of the handle elements and opening into the interior of the case, and a stop member having an upstanding planar surface provided inwardly of said cut-away area and adjacent the bottom portion thereof, said stop member extending the width of said cut-away area, the end faces of said central partition inclining inwardly from the lower portion of the handle elements and merging at their lower ends into the stop member.

2,535,494
BUILDING STRUCTURE
Gustav Warner Hult and Harry Kingsmill, Cleveland, Ohio; said Hult assignor to said Kingsmill
Substituted for abandoned application Serial No. 308,806, December 12, 1939. This application June 9, 1944, Serial No. 539,484
11 Claims. (Cl. 189—34)



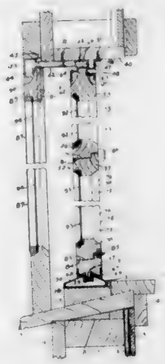
1. A building wall comprised of a plurality of hollow building blocks each having transversely spaced face members, webs connecting the face members, the latter having opposed inwardly-extended peripheral flanges extended around the block face members, to which flanges the webs are secured, the flanges being formed to provide outwardly-directed grooves adaptable for the accommodation of block-coupling bars, the flanges of adjacent face members being in opposed relation, the blocks being assembled in vertically adjacent courses each comprised of laterally adjacent blocks to effect a wall assembly, the grooves of adjacent blocks being in aligned relation upon all opposed block surfaces, coupling bars in the grooves, and clip members respectively securing adjacent blocks together at their opposed flanges.

2,535,495
GUIDE FOR DISK TYPE MAGNETIC RECORDER-REPRODUCERS
John H. James, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application July 15, 1947, Serial No. 761,062
1 Claim. (Cl. 274—13)



In a magnetic record transducing apparatus utilizing a record member comprising a disk of sheet material having an exposed surface on which magnetic signals are recorded along a generally spiral physically intangible record trace: a base, a rotatable turntable connected to said base for supporting and rotating said record member, arm means including pivot means mounting one end of said arm means on said base for movement of the other end across said turntable, a magnetic transducer head mounted on said other end of said arm for engaging said record member, a guide stylus connected to said arm at a location between the pivot end and said other end, a solid circular guide disk of diameter less than the diameter of said record member and having a spiral guide groove thereon for engaging and guiding said guide stylus to pivot said arm across said turntable to cause said transducer head to scan said spiral intangible record trace from inside to outside, said guide disk being positioned at the center of said turntable and cooperating with said turntable to hold said record member in fixed position, a circular barrier structure connected to the center of and extending above said guide disk for engaging said arm to limit the radially inward pivot motion of said arm for defining a fixed starting location for said arm as it pivots across said turntable from a radially inward to an outward location.

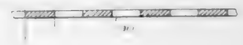
2,535,496
WINDOW CONSTRUCTION
Roy G. Johnson, Moline, Ill., assignor of one-half to August Altiery, Washington, D. C.
Application November 1, 1944, Serial No. 561,399
5 Claims. (Cl. 160—182)

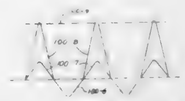


5. In a wall having a window opening, a frame comprising a hollow metal head liner, hollow metal side jamb liners, an alining wedge member for the sill of the window opening, and a hollow metal sill on said member flush with the inside window stool of said opening, said sill having a groove in the top sloping downwardly away from said groove edges, a deeper groove in the bottom of the head liner, the side jamb liners each having a tongue extending from its inner edge spaced from the sides of the window opening, the outer edges of said liners having inner and outer abutments, said outer abutments fitting in the normally rabetted outer corner of the window opening, a screen insertable from inside the wall against the sill of the window opening and the inner abutment around the outer edges of the liners, means for locking said screen in place, a window sash with metal lined flanges at the top and bottom and metal sash stile liners on the sides extending around the outer edge of the stile and provided with a groove for registration with the tongues of the side jamb liners to form weather stripping means around the sides, the window sash being readily installable by slipping the upper flange all the way into the head jamb liner groove and then dropping the lower flange into the sill groove, thus completing the weather stripping around the top and bottom.

2,535,497
LIMIT CONTROL FOR MAGNETIC RECORDERS
Cary B. Jones, Grand Rapids, Mich., assignor to The Brush Development Co., Cleveland, Ohio, a corporation of Ohio
Application April 12, 1946, Serial No. 661,487
4 Claims. (Cl. 179—100.2)

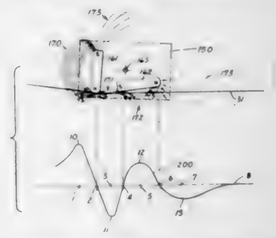
1. In a magnetic record transducing apparatus for transducing records, such as recording or reproducing magnetic signals: two revolvably mounted reels; an elongated record track arranged to form two coils held on said reels and an intermediate track portion extending between said coils so that when said track is wound on one reel it is unwound from the other reels; a magnetic record transducing head means including means for reproducing magnetic signal records from said track, and means for magnetizing elements of said record track passing said head means when recording and erasing magnetic signals; said reels forming part of guide means including impelling means for moving said record track past said head means; a predetermined control length of said record track being formed of a succession of elements of such predetermined degrees of magnetizability spaced by elements of a different degree of magnetizability so as to induce in said transducer head during reproduction from a recorded record track a control signal of a predetermined control frequency; said con-





trol length of said record track having length portions permanently magnetically conditioned to a desired degree at which the maximum magnetizing forces exerted thereon by said head means are insufficient to substantially change the desired magnetic conditions of said control length portions; and a control circuit connected to said transducer head and including a control element operative in response to said control signal for subjecting the operation of said record transducing apparatus to a desired control action.

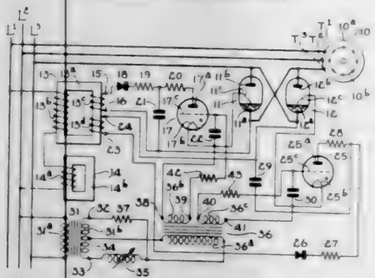
2,535,498
ERASING HEAD AND APPARATUS FOR MAGNETIC RECORDERS
Otto Kornei, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application November 7, 1947, Serial No. 784,563
8 Claims. (Cl. 179—100.2)



1. In a magnetic record transducing apparatus for magnetically recording by transducer head means signals of the audio frequency range with a superposed alternating bias field of at least twice higher frequency on a flexible elongated permanently-magnetizable record track guided and impelled in a transducing forward direction along a predetermined guide path and for reproducing the recorded signals with said head means located along said path: an erasing head comprising permanent magnet means having at least three permanent magnetic poles, a base, means securing said permanent magnet means to said base forming a unitary structure, means

adjustably connecting said erasing head to said record transducing apparatus adjacent the guide path for erasing and magnetically substantially neutralizing elements of said track before they reach said head means while recording; said erasing head comprising a permanent magnet structure free from any extraneous magnetizing windings and having an elongated exposed pole region of said at least three poles past which said track moves along said guide path for producing solely by said permanent magnet structure along an erasing path section of said guide path extending in front of said poles an erasing magnetic flux field of at least three oppositely directed portions decaying in intensity in the forward direction of said guide path, starting with an initial portion of intensity sufficient to magnetically saturate track elements passing therethrough and ending with an end portion of low intensity effective in reducing the magnetization of passing particles to a negligible level, a portion of said permanent magnet means constituting a guide element positioned in the said initial maximum intensity portion of said erasing flux field engaged by and guiding the track along said erasing path section for saturating track elements coming into engagement with said guide element.

2,535,499
CONTROL SYSTEM FOR IGNITRON TUBES
George J. Lexa, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 29, 1949, Serial No. 101,992
5 Claims. (Cl. 315—272)

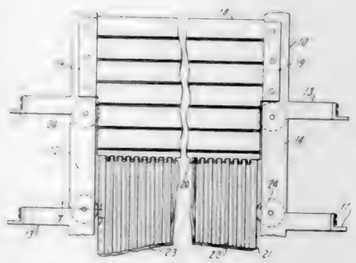


1. In combination, an alternating current supply source, an ignitron tube which through its main electrodes conducts energy from said source and which has an ignitor electrode, means, including a capacitor, supplying energy stored in said capacitor to said ignition electrode in timed relation to the voltage cycles of said source, transforming and rectifying means in energy supplying relation to the first mentioned means including said capacitor, and a primary circuit for said transforming means supplied from said source and having reactance affording peaking of the voltage pulses in the secondary of said transforming means restricting transfer of energy to said ignitor electrode from said source substantially to only the energy stored in said capacitor.

2,535,500
PLATE AND DISH WARMING DINING TABLE
Otto Looft, Seattle, Wash.
Application December 1, 1949, Serial No. 130,485
3 Claims. (Cl. 219—45)

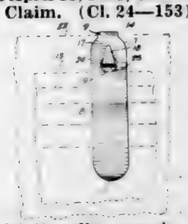
1. The combination of a dining table having a table top and an improvement for the heating of individual place settings and serving dishes associated therewith, comprising: a plurality of heating units disposed below the surface of said table top; each heating unit having a dome-shaped reflector directed upwards provided with a peripheral rim secured to the lower side of said table top; each heating unit having an electric socket positioned in the center of the lower portion of said reflector, and an electric globe positioned in an upright manner in said socket; each heating unit having a pervious screen to enclose the upper portion of said reflector; there being a rim on said screen adapted to seat on said reflector and to position the pervious screen in the plane of the upper surface of said table top; an electric supply circuit connected to said sockets and having a plurality of contact switches disposed so as to provide for the selective employment of said heating units; a resilient shield disposed to encircle the stem of said electric globe and prevent liquid from entering the top of said electric socket; and said reflectors having drain openings in the bases thereof.

2,535,501
ESCALATOR STEP TREAD AND GUIDE
Robert F. Loughridge, Fort Worth, Tex.
Application October 6, 1948, Serial No. 53,057
3 Claims. (Cl. 198—16)



1. A guide for alining an escalator step having a grooved tread of rubber with a toothed comb plate including, a pair of horizontal rollers mounted on opposite sides of the step tread, an upright pin for rotatably supporting each roller in engagement with the lateral edge of the rubber tread, each roller having a peripheral rim of rubber to provide a silent rubber-to-rubber contact with the tread, each pin having axially alined ends and an eccentric intermediate portion upon which its roller is journaled, and means for supporting each pin by one of its ends, whereby each roller may be adjusted relative to the tread by rotating its pin and may be reversed by turning its pin end for end.

2,535,502
FILE OR FOLDER CLIP
Louis G. Mayer and Forest J. Neel, Louisville, Ky., assignors, by direct and mesne assignments, to The Dura-Clip Co., Louisville, Ky., a corporation of Kentucky
Application April 13, 1948, Serial No. 20,744
1 Claim. (Cl. 24—153)



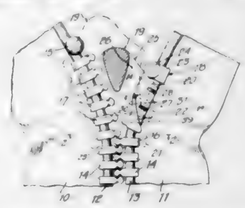
A clip for frictionally securing papers to a file back or the like, said clip comprising a single length of spring metal bent between its ends to define two similar longitudinally elongated coextensively superimposed arms and a connecting portion, said arms having divergent free ends to facilitate entry of the file back and the papers therebetween, said arms being tensioned toward each other to frictionally engage papers positioned between one of said arms and the file back, and a bendable prong on one of said arms near said connecting portion arranged to be passed through the file back and through an opening formed in the other of said arms near said connecting portion and bent along said other arm whereby said clip is fixed in position on the file back and said arms are held in frictional engagement with the file back and papers inserted between said file back and said one arm.

2,535,503
VIBRATOR-EXCITING ACTION
Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J., a corporation of New Jersey
Application September 16, 1947, Serial No. 774,289
10 Claims. (Cl. 84—240)

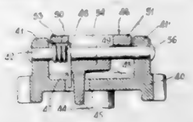
1. In a key-operated action for exciting the vibrator of a musical instrument, a hammer movable to strike the vibrator; means, continuously retained in a hammer-propelling path and moved by key operation to a limiting position in that path, for propelling the hammer toward the vibrator, to and from which means while in that position the hammer attempts to oscillate after striking the vibrator; and means, comprising a mass carried by and placed in motion by the key and a flexible member interposed between said mass and the key, for braking the hammer during such attempted oscillation only.

2,535,504
PULL APART SEPARABLE FASTENER
Louis H. Morin, Bronx, N. Y.
Application March 23, 1944, Serial No. 527,801
11 Claims. (Cl. 24—205.11)

1. The combination with separable fastener stringers employing a slider movable along the stringers to couple and uncouple the links thereof, of a pull apart separator at one end of the stringers, said separator comprising a bar on the end of one stringer beyond an end link of the stringer, enlarged portions at both ends of the bar, the slider having inturned and spaced side flanges, the thickness of said bar between said enlarged portions being less than the spacing between the flanges of said slider to permit lateral displacement of the bar from said slider, the enlarged portion at the outer end of the bar including oppositely directed cylindrical bearing members adapted to engage one end of the slider in guiding the bar in said lateral displacement from the slider, the enlarged portion at the inner end of the bar having extending tongue portions adapted to engage the flanges at the other end of the slider in guiding the bar laterally through the slider in the pull apart separation of the stringers, and the other stringer having a stop adapted to check the slider against displacement therefrom only after said pull apart separation of the stringers has started.



2,535,505
DIE-CAST SLIDER PULL WITH FORMED PIVOT BEARINGS
Louis H. Morin, Bronx, N. Y.
Application July 12, 1947, Serial No. 760,625
4 Claims. (Cl. 24—205.14)

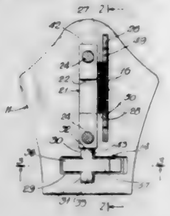


4. A pull for sliders of separable fastener stringers, said pull comprising an elongated body having a pivot end and a fingerpiece end, the pivot end of the pull having on opposed surfaces thereof hood and bearing portions arranged transversely of the pull, the hood and bearing portions being alternately closed on opposed surfaces of the pull thereby leaving other opposed surfaces open, inner surfaces of said hood and bearing portions being spaced one with respect to the other to form a pivot pin receiving passage throughout the full width of the pull for pivotal mounting of the pull, a pin on which said pull is mounted, and the inner surface of a hood portion being widely spaced from said pin when said pin engages a bearing portion.

2,535,506
AUTOMATIC LOCK SLIDER
Louis H. Morin, Bronx, N. Y.
Application August 9, 1947, Serial No. 767,815
20 Claims. (Cl. 24—205.14)

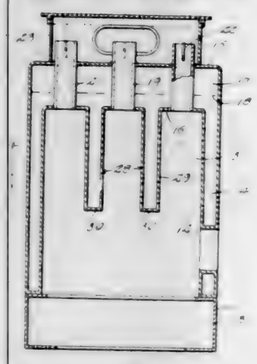
7. A lock slider for separable fastener stringers, said slider comprising a pair of flanged walls spaced and joined by a connecting web, one wall of the slider having an elongated rib extending

centrally and longitudinally of the outer surface of said wall, said wall at one end of the rib having a transversely elongated aperture, said wall at one side of the rib having an elongated recess, shoulder portions in said recess inwardly of terminal ends thereof, an O-type member defined by side and end walls mounted on said rib for movement longitudinally thereof and of said slider wall, one side wall of said member having spaced lugs extending downwardly into said recess, inner opposed surfaces of the lugs being spaced apart a distance common to the spacing of said shoulders, a coil spring mounted in the recess of said wall and bearing on said shoulders and said inner opposed surfaces of the lugs, normally



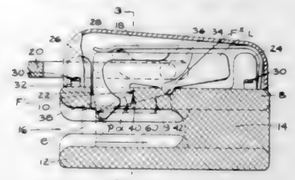
maintaining said member with the lugs in alinement with said shoulders and with end walls of said member spaced with respect to the ends of said rib thereby providing movement of said member in both directions longitudinally of the rib, a lock pawl pivoted to said wall of the slider and arranged in said aperture to move into and out of the channel of the slider, said member having a part engaging the pawl, in the normal position of said member, to retain the pawl in locked position, means retaining the member against displacement from said wall, and said member having recesses at opposite sides of said part permitting movement of the pawl into raised inoperative position in movement of said member in either direction on the slider.

2,535,507
ROUND AND SECTIONAL BOILER
Otto Muller, Bronx, N. Y.
Application January 7, 1946, Serial No. 639,564
3 Claims. (Cl. 122—225)



2. A boiler comprising spaced apart inner and outer top and side walls connected together to define a fluid chamber therebetween, a plurality of spaced apart hollow baffle members depending from the inner top wall and communicating with said fluid chamber, vertically disposed flue members between said baffle members and between said baffle members and the inner side walls and extending through the inner and outer top walls, a cap engaging over the top ends of said flue members above said top wall including a removable top plate, and independently adjustable dampers carried by said flue members.

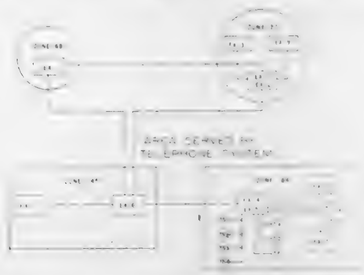
2,535,508
AUTOMATIC LOCK SLIDER
Paul Natzler, Jackson Heights, N. Y., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application May 5, 1945, Serial No. 592,165
7 Claims. (Cl. 24—205.14)



1. An automatic lock slider for slide fasteners comprising a slider body having connected front and rear wings defining interiorly a slider channel for slide fastener stringers, a locking member mounted on one of the slider wings and provided with a locking tooth extending through said mounting wings into the slider channel, the mounting wing of said slider body having two fulcra, said locking member comprising a lever cooperating with said two fulcra, one fulcrum being adjacent to and the other being remote from said locking tooth, said locking lever having a medial web portion and enlarged end portions, the enlarged end portions providing pull engaging surfaces, a pull movable along the web portion and engageable with said enlarged end portions for operating the locking member, operation of the pull being effective for moving the locking lever about its remote fulcrum to an unlocking position, and a cross pull exerted on the stringers being effective for urging the locking lever about its adjacent fulcrum to hold it in locked position.

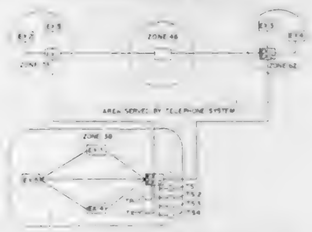
2,535,509
PARTY IDENTIFICATION IN AUTOMATIC TELEPHONY
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application August 6, 1942, Serial No. 453,799. Divided and this application November 22, 1946, Serial No. 711,509
12 Claims. (Cl. 179—8.5)

4. In an automatic telephone system including a party line, a plurality of stations on said party line, a calling device at each of said stations, the calling device at any calling one of said stations being operable to transmit over said party line during a single operation thereof both a number of switch control impulses and an individual fixed number of ground impulses, the number of ground impulses in said fixed number of ground impulses being different for each station on said party line; the combination comprising a line relay provided with a winding, a party relay provided with two windings, a source of battery potential, a source of booster battery potential, means controllable at any calling one of said stations for completing a series circuit including said sources of potential and said relay windings and said party line and the calling device at the calling one of said stations for energizing said relay windings, said party relay windings being connected in said series circuit so that they are energized in opposite directions in order to prevent operation of said party relay, said line relay winding being connected in said series circuit so that energization thereof operates said line relay, said line relay thereafter being controlled over said series



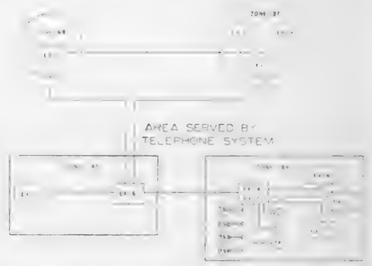
circuit in response to the transmission of each of said switch control impulses and said party relay being controlled over said circuit in response to the transmission of each of said ground impulses, each of said ground impulses momentarily altering said series circuit so that said party relay windings are energized in the same direction in order to operate said party relay, means controlled by said line relay for registering each of said switch control impulses, and means controlled in response to each operation of said party relay for registering each of said ground impulses.

2,535,510
DUAL RATE AND/OR REVERSED CHARGING IN AUTOMATIC TELEPHONY
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., a corporation of Delaware
Original application September 18, 1941, Serial No. 411,350. Divided and this application September 11, 1942, Serial No. 457,926
12 Claims. (Cl. 179—7.1)



1. In a telephone system including a plurality of stations of first and second classes in which the charges for connections are billed to calling stations of said first class on a first basis and to calling stations of said second class on a second basis, switching apparatus for setting up a connection from a calling one of said stations to a called one of said stations, automatic means for registering certain items of record information pertaining to said connection and including a first item indicating that the charge for said connection is to be billed to said calling station calculated on said first basis or a second item indicating that the charge for said connection is to be billed to said calling station calculated on said second basis, and means governed by the class of said calling station for selectively controlling said automatic register means.

2,535,511
TELEPHONE SYSTEM
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application August 6, 1942, Serial No. 453,799. Divided and this application September 29, 1948, Serial No. 51,682
17 Claims. (Cl. 179—27)

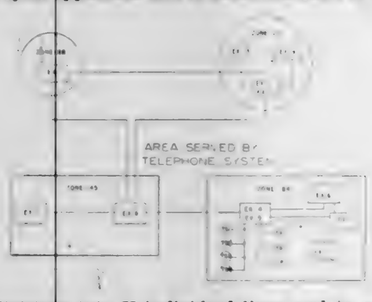


1. In a telephone system, a plurality of lines, a number of different pieces of common equipment each normally operative in a fixed individual manner, means responsive to the making of a call in a prescribed manner on a calling one of said lines to a called one of said lines for initiating operation of said pieces of common equipment, switching apparatus, an operator position, means controlled by the complete operation of each of said pieces of common equipment each in its fixed individual manner for controlling the operation of said switching apparatus to set up a connection from said calling line to said called line, and means controlled in response to the failure of any one of said pieces of common equipment to operate in its fixed individual manner for controlling the operation of said switching apparatus to set up a connection from said calling line to said operator position and for transmitting a signal indicative of said one piece of common equipment to said operator position.

2,535,512
TELEPHONE SYSTEM
John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application August 6, 1942, Serial No. 453,799. Divided and this application September 29, 1948, Serial No. 51,683
7 Claims. (Cl. 179—18)

1. In a telephone system including a large group of lines, a detector having access to said group of lines and comprising cycle apparatus operative progressively through X steps during a single cycle, Y test units, switching apparatus, means for initiating operation of said cycle apparatus, means responsive to the operation of said cycle apparatus through one cycle for operating said switching apparatus progressively to subdivide said group of lines into X subgroups upon the corresponding X steps of a single cycle

of said cycle apparatus and to subdivide each of the subgroups into Y divisions and to connect the Y divisions to corresponding ones of said Y test units, means governed when the division including a sought line is connected to one of said test units for operating said one test unit and for arresting operation of said cycle apparatus, means governed by the arrested step of said cycle apparatus and the particular operated one of said test units for respectively identifying the subgroup and the included division including said sought line, means for releasing said cycle apparatus and said one operated test unit and for initiating reoperation of said cycle apparatus, means responsive to the operation of said cycle apparatus through one cycle for reoperating said switching apparatus progressively to subdivide the identified division into X subdivisions upon the corresponding X steps of a single cycle of said cycle apparatus and to subdivide each of the



subdivisions into Y individual lines and to connect the Y individual lines to corresponding ones of said Y test units, means governed when said sought line is reconnected to one of said test units for reoperating said one test unit and for rearresting operation of said cycle apparatus, means governed by the rearrested step of said cycle apparatus and the particular reoperated one of said test units for respectively identifying the subdivision including said sought line and the particular position of said sought line therein, a device operative to indicate a failure of said detector, and means controlled in the event that the identity of the subgroup and the included division of the sought line or the identity of the subdivision and the particular position of the sought line is not established either by the operation or by the reoperation of said cycle apparatus through a given number of cycles for arresting further operation thereof and for operating said device.

2,535,513

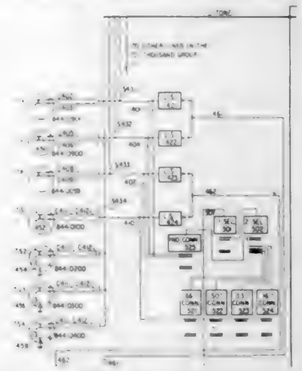
TESTING DEVICE FOR LINE IDENTIFYING EQUIPMENT

John E. Ostline, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application February 23, 1946, Serial No. 649,583. Divided and this application May 24, 1949, Serial No. 95,063

11 Claims. (Cl. 179—175.2)

1. In a telephone system, including a plurality of terminals; a detector comprising an oscillator for generating a voltage, a matching device, a detector tube, an amplifier tube, means for impressing said voltage as a reference voltage upon said matching device, means for selectively connecting said voltage as a signal voltage to any one of said terminals, progressively operated testing means for selectively connecting different ones of said terminals to said detector tube when any one terminal is impressed with said signal voltage, whereby said signal voltage is impressed upon said detector tube only when said one terminal is connected thereto, means including said matching device controlled by said detector tube when a signal voltage bears a fixed relation to said reference voltage impressed upon said matching device for controlling said amplifier



tube, means controlled responsive to said control of said amplifier tube for identifying said one terminal, an indicator, and selectively operable keys including contacts for selectively connecting said indicator to said detector tube or to said matching device or to said oscillator or to said amplifier tube, whereby a test may be selectively made to determine the operating characteristics of said detector tube or said matching device or said oscillator or said amplifier tube.

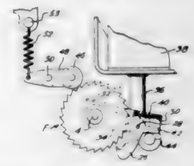
2,535,514

INTERMITTENT GRIP POSITIONING APPARATUS FOR CONTROL CAMS

Freeman H. Owens, New York, N. Y.

Application December 2, 1947, Serial No. 789,193

6 Claims. (Cl. 74—111)



6. In combination, a casing, a cam wheel rotatably mounted therein, a ratchet wheel operatively connected to said cam wheel for rotation therewith, a pawl engageable with said ratchet wheel for rotating the same but normally disengaged therefrom, a movable member for moving said pawl into engagement with and rotating said ratchet wheel, a first arm pivotally mounted in said casing and bearing a cam follower adapted to engage said cam wheel, a spring active upon said first arm to urge said cam follower against said cam, a second arm pivotally mounted in said casing coaxial with said first arm, said second arm bearing a detent active upon said ratchet wheel to retain the same in a given position, a spring active upon said second arm to urge said detent into engagement with said ratchet wheel, a switch in said casing, and a linkage in said casing operatively connected between said switch and said cam follower, whereby said cam controls the actuation of said switch, and a manually operable member on the exterior of said casing operatively connected to said cam wheel for rotating the same.

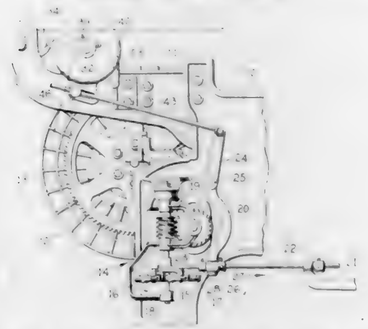
2,535,515

WHIP ROLL MECHANISM FOR LOOMS

James E. Repass, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application June 7, 1949, Serial No. 97,523

9 Claims. (Cl. 139—114)



1. For a loom of the type having a warp beam, a let-off mechanism and a whip roll through which changes in tension of the warp threads drawn from said beam and passing over the whip roll affect said let-off to control the unwinding of the thread from the beam, an improved whip roll biasing means comprising a clock type spring, a casing means substantially enclosing said spring, means forming a part of one casing member to which one end of the spring is attached, an anchor for the other end of said spring, and an adjusting means effective for altering the relative position of said casing member to which the spring is connected thereby to adjust the tension therein and thus, its biasing effect upon the whip roll.

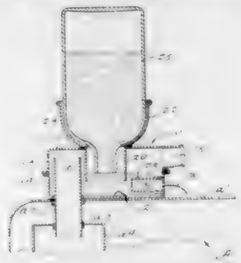
2,535,516

AUXILIARY VAPOR GENERATING ATTACHMENT FOR THERAPEUTIC VAPOR OR GAS PRODUCING MACHINES

Marc Resek, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio

Application April 17, 1947, Serial No. 742,106

5 Claims. (Cl. 21—119)



1. An auxiliary vapor generating attachment for therapeutic vapor or gas producing machines, said attachment comprising a receptacle having a vapor inlet and a vapor outlet, said inlet being arranged for communicative connection with the vapor outlet of a machine of the aforesaid character whereby the vapors from said machine will be caused to circulate through the receptacle; the receptacle including a top wall having an opening, a sleeve surrounding said opening and depending from said top wall and having its lower end in a plane substantially below that of the vapor inlet and vapor outlet of the receptacle, a container for liquid having a discharge mouth and being otherwise sealed against the admission of air, means supporting the receptacle with a part thereof depending through said opening and with its mouth liquid sealed within the sleeve at an elevation intermediate the lower end of the sleeve and the horizontal plane of the vapor inlet and vapor outlet of the receptacle, and means for heating the liquid in the receptacle so as to generate vapors therefrom that mix with the beforementioned vapors as the latter pass through the receptacle.

2,535,517

SEALED HOUSING FOR AN ELECTRICAL CONDENSER AND METHOD OF SEALING THE CONDENSER IN THE HOUSING

Dennis Henry James Rhodes, London, England, assignor to A. C. Cossor Limited, London, England, a British company

Application May 29, 1946, Serial No. 672,983

In Great Britain June 2, 1945

2 Claims. (Cl. 174—77)

2. A sealed condenser comprising a cylindrical condenser unit mounted within a tubular element formed of insulating material impregnated with a heat-setting material which is rendered rigid under heat, said tubular element being longer than said condenser unit, a pair of rigid disks positioned within said tubular element and bearing against opposite ends of said condenser unit, said disks embodying the same heat-settable material as said tubular element, the ends of said tubular element being in-turned to form bead elements having contact with the outer faces of said disks, and said bead elements being rigidly bonded to said disks by the heat-setting material incorporated in said bead elements and disks.

2,535,518

FUSE IGNITING AND CONNECTING MEANS

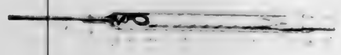
John D. Rich, Simsbury, Conn., assignor to Bickford Research Laboratories, Inc., Hartford, Conn., a corporation of Connecticut

Application September 25, 1948, Serial No. 51,254

4 Claims. (Cl. 102—27)

1. A water-resistant connecting device for ignitively joining a safety fuse to a line of ignition

cord usable in the sequential firing of explosives, comprising a tubular member of a size freely to receive an end of said safety fuse, a piece of deformable ignition cord arranged to be connectible to the line of ignition cord and having one end portion projected into said tubular member to a predetermined point therein, an oxygen-sufficient combustible composition disposed about an end portion of said ignition cord adjacent to



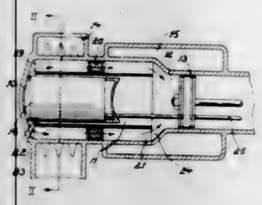
said point, means for mechanically securing said piece of ignition cord in said tubular member, and means for mechanically securing an end of a piece of safety fuse, which may be projected into said tubular member, in ignitive proximity to said piece of ignition cord at said point for preventing accidental withdrawal of the safety fuse from said tubular member once it has been inserted thereinto.

2,535,519

FIVE ELEMENT HOT-GAS MOTOR WITH MEANS FOR HEATING THE GAS THEREOF EXCLUSIVELY IN THE HEATER ELEMENT THEREOF

Herre Rinia, Heinrich de Brey, Franciscus Lambertus van Weenen, Ysbrand Boers, Gabriel Leonard Sypkens, and Willem Jan van Heeckeren, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Co., Hartford, Conn., as trustee

Application August 29, 1945, Serial No. 613,394
In the Netherlands May 5, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 5, 1961
6 Claims. (Cl. 60—24)

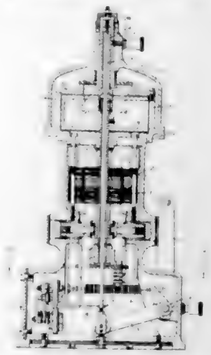


1. A closed cycle hot-gas motor comprising means defining a hot chamber, a regenerator, conduit means connecting said hot chamber with said regenerator, a heater operatively associated with said conduit means for applying heat directly only to the gas in said conduit means and forming a heater means therewith, said conduit means comprising means forming a multiplicity of paths for the passage therethrough of the gas of said motor, means defining a cold chamber, second conduit means connecting said cold chamber with said regenerator, and a cooler interposed between said regenerator and said cold chamber and operatively associated with said second conduit means, said hot chamber, heater means, regenerator, cooler, and cold chamber constituting separate cycle elements of said motor, and the minimum volume of said hot chamber being substantially zero as determined by constructional clearances of the hot chamber defining means.

2,535,520

AIR SIREN GIVING SHARP TONES OF SHORT DURATION

Ernest Stuart Russell, Wraysbury, England
Application August 5, 1948, Serial No. 42,567
In Great Britain August 14, 1947
6 Claims. (Cl. 177—8)

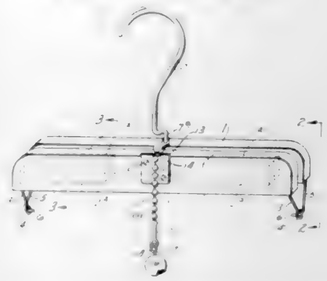


1. A siren giving sharp tones of short duration comprising a rotor having radial blades with a rim, a stator having a rim and an air suction opening, the rim of the rotor and the rim of the stator having an equal number of ports, the ports of the stator rim serving as air discharge openings, and operating means comprising contacting parts forming an imperforate closure enveloping at clearance distance both the suction and the discharge portions of the stator and rotor and completing a substantially soundproof enclosure thereof, and means to effect the relative movement between parts of the closure for the free flow of air into and through the siren.

2,535,521

GARMENT HANGER

Alfred C. Schoepfer, St. Petersburg, Fla.
Application February 21, 1947, Serial No. 729,965
6 Claims. (Cl. 223—96)



1. A garment hanger comprising a pair of horizontal spaced strips, hinges depending from the lower longitudinal edges of said strips at opposite ends thereof, an upright inverted hook connected centrally to one of said strips, a plate secured centrally on the outer surface of the other strip and projecting above its top edge, and having a central notch in its projecting portion, and a chain including a series of spaced elements anchored to said one strip with intermediate elements thereof adapted for selective registry relative to said notch for clamping the strips together

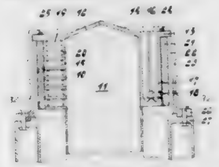
to hold a garment therebetween, said hinge arrangement defining an upright V-shaped opening between said strips and the joint of the hinge for increased tension between their lower edges.

2,535,522

SHELL-SHAPED HEATER WITH REGENERATOR FOR HOT-GAS ENGINES

Willem Hendrik Stigter, Eindhoven, Netherlands, assignor to Hartford National Bank & Trust Co., Hartford, Conn., as trustee

Application September 10, 1945, Serial No. 615,495
In the Netherlands July 1, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 1, 1964
11 Claims. (Cl. 60—24)



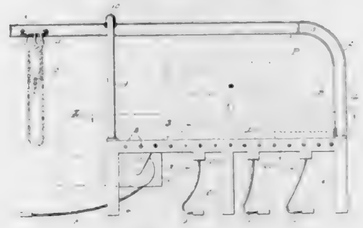
1. In a hot-gas engine the combination comprising a cylindrically-shaped heating body having top and bottom portions, said heating body having substantially radially directed ducts in the walls thereof, said heating body surrounding a hot chamber, an outturned flange integral with said top portion of said heating body, a cylindrically-shaped cooler body positioned below said heating body, a cylindrically-shaped shell construction having top and bottom portions and surrounding said heating body and spaced concentrically therewith and outwardly therefrom to form a regenerator space therebetween, a flange extending from said top portion of said shell construction and another flange extending from said bottom portion thereof, means for fastening said outturned flange with said shell top portion flange and other means for fastening said shell bottom portion flange to said cooler body.

5. In a hot-gas engine the subcombination comprising a shell-shaped heating body surrounding a hot chamber, a plurality of hot gas ducts directed from said heating body, and a regenerator surrounding said ducts.

2,535,523

BATTERY-CHARGING TABLE

Burton L. Vibbert, Euclid, Ohio
Application May 11, 1948, Serial No. 26,387
1 Claim. (Cl. 136—173)



In a battery recharging table a charging panel; a plurality of leads extending therefrom and having means at their free ends clampable to a battery to be charged; a horizontal rectangular open frame spaced from said panel and comprising a plurality of rigidly connected channel members faced toward the inside of the frame, legs supporting said frame in an elevated position, and a plurality of battery supporting rollers extended transversely of the frame and having their respective ends journaled inside the channel members at opposite sides of the frame; and a plurality of tubular transverse cross braces spaced longitudinally of the frame to define battery charging locations spaced longitudinally of the frame, said cross braces being rigidly secured at their ends to the undersides of the side channel members, each cross brace extending the full distance across the frame and having its opposite ends flush with the outer walls of the channel members, each cross brace constituting a housing for a single lead and having one end open and being formed with an opening in its bottom wall at its other end, said leads being extended from the panel to the respective housings and being loosely positioned through said housings with their free ends extending out of the last-named openings.

2,535,524

VULCANIZABLE RUBBER COMPOSITION

Ervin R. Williams, Cuyahoga Falls, Ohio, assignor to Harrison & Morton Laboratories, Inc., Cuyahoga Falls, Ohio, a corporation of Ohio

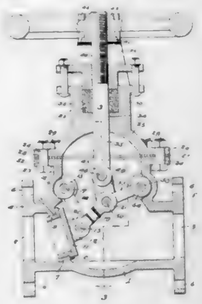
No Drawing. Application June 1, 1948, Serial No. 30,509
11 Claims. (Cl. 260—782)

1. A rubber composition containing sulphur including an organic accelerator of vulcanization and from about 0.5% to about 10% of an alkaline metal salt of tall oil.

2,535,525

GATE VALVE

Fred E. Wolfe, Morgantown, W. Va.
Application August 23, 1948, Serial No. 45,655
1 Claim. (Cl. 251—17)



A valve of the character described, comprising a valve casing including a bonnet, said casing having horizontal aligned inlet and outlet ports, a valve seat formed within the casing spaced from the inlet port, a valve stem operating vertically through the valve bonnet and extending into the valve casing, spaced links pivotally connected to the end of the valve stem within the casing, on opposite sides of the valve stem, a single link pivotally connected with the valve casing above the outlet port, a gate actuating link, a connecting pin pivotally connecting the single link and gate actuating link between said spaced links, a gate valve, to which the gate actuating link is pivotally connected, a single link pivotally connected with the wall of the casing directly over the inlet port, and a pivot

pin connecting the latter link with said gate valve and the gate actuating link, whereby vertical movement of the valve stem swings the gate valve to a position centrally of the valve casing substantially above the path of travel of water flowing through the valve casing.

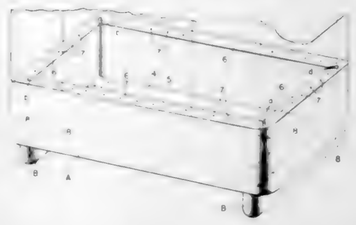
2,535,526
STABILIZED ZIRCONIA AND METHOD FOR PRODUCING SAME
Archibald H. Ballard and Douglas W. Marshall, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Application January 19, 1950, Serial No. 139,532. In Canada April 21, 1949
3 Claims. (Cl. 106—57)

1. A process for the manufacture of stabilized zirconia comprising fusing in an electric arc furnace an ore containing ZrO_2 together with a quantity of carbon which is two-thirds of the theoretical quantity of carbon required completely to reduce the silica plus 100% of the theoretical quantity required to reduce all the other oxides (except zirconia) to metal with up to 40% excess over the total of these quantities and together with an amount of iron that is enough to make with two-thirds of the silicon a ferrosilicon having an iron content of 75% to 85% minus the amount of iron obtained by the reduction of the iron oxide in the ore to iron, and together with a stabilizing agent consisting of calcium oxide, the quantity of stabilizing agent being from 3% to 6% of the amount of ZrO_2 in the ore.

2,535,527
MODEL AIRPLANE PROPELLER
Archibald S. Barkley, Detroit, Mich.
Application August 15, 1946, Serial No. 690,740
3 Claims. (Cl. 170—159)

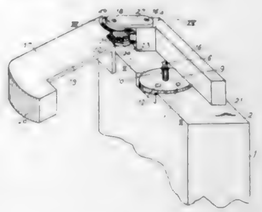
1. A propeller comprising a hub having a radial groove therein, one wall of said groove having screw holes therethrough, the peripheral surface of the other wall of said groove being threaded, propeller blades having hub-engaging portions extending into said groove, said hub-engaging portions each having a threaded opening therethrough opposite the holes in said groove wall, screws securing each of said hub-engaging portions to the first named wall, and a hub nose threaded onto the peripheral surface of said other wall of the groove, said nose being traversed on its threads into pressure engagement with all of said hub engaging portions.

2,535,528
RANGE BASE
Almer H. Brodbeck, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Original application October 14, 1944, Serial No. 558,701. Divided and this application January 24, 1946, Serial No. 643,133
1 Claim. (Cl. 126—305)



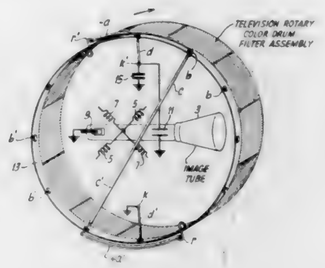
A range and a supporting base therefor, said base being drawn from a single piece of sheet metal and comprising, a hollow rectangular frame having vertically extending and parallel front and rear walls and vertically extending and parallel end walls, the upper and lower ends of all of the said walls having inwardly extending horizontally disposed flanges, the flanges at the lower ends of the front and rear walls being of identical width and sufficiently wide to close substantially one-half of the space between said walls, the flanges at the lower ends of the end walls being of the same width as the flanges at the lower ends of the front and rear walls, the flanges at the upper ends of the side walls being comparatively narrow, and said flanges at the corners of the base being cut away from their inner edges towards the base walls with said cut-away portions terminating short of said walls.

2,535,529
PYROPHORIC LIGHTER
Robert Ernest Chérouvrier, Paris, France
Application April 21, 1948, Serial No. 22,351
In France May 3, 1947
5 Claims. (Cl. 67—7.1)



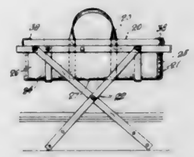
1. A pyrophoric lighter comprising a fuel container wadded with an absorbent material and providing a recess, said container being closed by a lid, an aperture in said lid, coinciding with said recess, a wick-carrying element made of absorbent material and removably located in said recess, a wick supported by said element, means on said element for engaging the wick, a plug mounted on the upper part of said element for engaging said aperture, a perforation in said plug for enabling the wick to project from the lid, a friction wheel mounted on said lid, means for controlling the rotation of said friction wheel, a spark-producing flint, and means for automatically applying said flint against said friction wheel when rotating the same.

2,535,530
HIGH-VOLTAGE SUPPLY FOR CATHODE-RAY TUBES
Edwin L. Clark, Collingswood, N. J., and Antony Wright, Drexel Park Gardens, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application January 9, 1947, Serial No. 721,010
6 Claims. (Cl. 178—5.4)



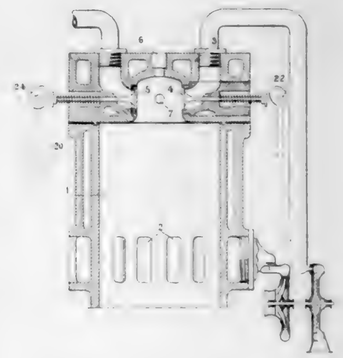
1. In a color image television system, a cathode ray tube having an image screen and an element adapted to receive a high voltage potential, a rotary color filter having a plurality of different selected component color filter elements, said color filter elements arranged to traverse said cathode ray tube screen in a predetermined sequential manner, said color filter having a rotary support element, said rotary support element comprising the rotatable member of an electrostatic generator, and the output terminal of said generator connected to said element in said cathode ray tube adapted to receive a high voltage potential.

2,535,531
PORTABLE CARRYING AND SLEEPING CONTAINER
Edward V. Conrad, East Orange, N. J.
Application February 8, 1949, Serial No. 75,251
5 Claims. (Cl. 5—98)



1. A bassinet-type device comprising a shell having a flexible wall structure including opposed sides, opposed ends and a bottom, a reinforcing structure secured to the wall structure and reinforcing parts of the same and having portions extending from the upper edges of the sides of said shell to provide carrying means for the device, individual members stiffening the wall structure for preventing collapsing of said shell, padding arranged on the interior of the wall structure of said shell, and a collapsible supporting structure removably receiving and supporting said shell.

2,535,532
TWO-CYCLE LOW-BOILING FUEL INJECTION ENGINE
Emile Paul Dumanois, Boulogne-Billancourt, and Léon Poincaré, Paris, France, assignors, by mesne assignments, to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France
Application October 29, 1945, Serial No. 625,400
In France September 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires September 24, 1961
5 Claims. (Cl. 123—65)



1. In a two stroke injection engine comprising at least one cylinder and a piston reciprocable therein, in which said cylinder is of the type with inlet ports uncovered by said piston in its lowest position and communicating with a source of air, and in which said cylinder is provided with two exhaust valves, control means actuated by the motor for opening each said valve for a constant fraction of the motor's cycle, and means for variably shifting the actuation of said control means with respect to one another in accordance with the required power output, the opening of the first said valve beginning slightly before said ports are uncovered and terminating when the piston is in very close proximity to low dead center, and the opening of the second valve beginning at a variable interval of time after said ports are uncovered and terminating at a variable moment, said moment taking place within a space of time extending before and after the moment said ports are closed.

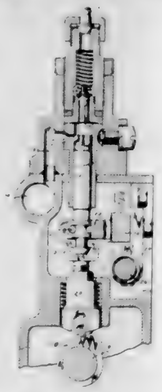
2,535,533
PRODUCTION OF POLYALLYL DERIVATIVES
Edward Michael Evans, Tonbridge, and Harry Thurston Hookway, Croydon, England, assignors to British Resin Products Limited, London, England, a British company
No Drawing. Application July 21, 1947, Serial No. 762,532. In Great Britain July 23, 1946
6 Claims. (Cl. 260—79.3)

3. Poly(allyl and β-hydrocarbon-substituted allyl derivatives of 1,3,5-trimethylene trisulphone).

2,535,534
ALLYL-SUBSTITUTED 1,3,5-TRIMETHYLENE TRISULFONE
Edward Michael Evans, Tonbridge, and Harry Thurston Hookway, Waddon, Croydon, England, assignors to British Resin Products Limited, London, England, a British company
No Drawing. Application April 12, 1949, Serial No. 87,135. In Great Britain July 23, 1946
15 Claims. (Cl. 260—327)

1. A substituted 1,3,5-trimethylene trisulphone in which the substituting radical is selected from the group consisting of the allyl, beta-methallyl, beta-ethallyl and beta-propallyl radicals and wherein at most each methylene group is mono-substituted.

2,535,535
INJECTION PLUNGER FOR COMPRESSION IGNITION ENGINES
Kenneth J. Fleck, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application March 19, 1947, Serial No. 735,688
1 Claim. (Cl. 123—121)

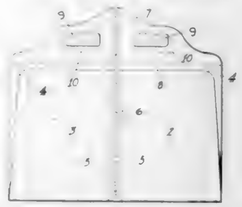


In a fuel injection mechanism for an engine adapted to operate alternately on oil and on gas with a pilot flame of oil, a pump plunger with a substantially flat pressure end, said plunger being rotatable in its cylinder to vary the quantity of oil delivered per stroke from a maximum for oil fuel operation to a position for pilot injection for gas fuel operation, said plunger having a relieved portion at the edge of its pressure end for registry with the supply port of the cylinder to vary injection timing when the plunger assumes its gas fuel position, and said relieved portion having an edge parallel to the plane of the pressure end of the plunger whereby the plunger may be rotated to a limited degree for varying the pilot flame size without varying the timing.

2,535,536
FLUX FOR PURIFYING METALS
Elmer W. Hagmaier, Pittsburgh, Pa., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
No Drawing. Application December 21, 1948, Serial No. 66,580
2 Claims. (Cl. 75—93)

1. A flux-mixture for purifying scrap metals and removing metallic impurities, consisting of sand and borax in the proportion of about 47 to 50% sand and about 53 to 50% dehydrated borax.

2,535,537
ENVELOPE
Vincent E. Heywood, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application April 25, 1947, Serial No. 743,775
1 Claim. (Cl. 229—80)



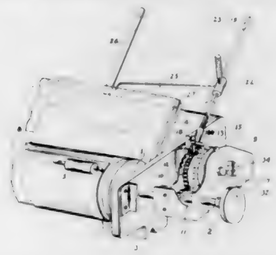
As a new article of manufacture, an envelope having front and rear walls forming between them a pocket which is open along one edge of said rear wall, the front wall having along its corresponding edge an extension foldable on a line parallel and adjacent to said rear wall edge, into overlapping relation with said rear wall, for the closure of said pocket, said extension carrying a limited area of moistenable adhesive for holding it in its folded-over pocket-closing position, said adhesive being spaced inwardly from the free edge of said extension, to leave said free edge as a pull tab for use in pulling said overlapped and adhesively-connected parts asunder, for the opening of said pocket, and the material of only said extension having a row of slits substantially parallel with said fold line and between said fold line and said adhesive area, whereby in the pulling asunder of said parts, any shredding of said extension's material is terminated by said slits, and any shredding of the rear wall material is terminated by the latter's edge.

2,535,538
GELATINOUS COMPOSITION OF MATTER AND METHOD OF PREPARING SAME
Louis Koch, New York, N. Y., assignor to H. Kohnstamm & Co. Inc., New York, N. Y., a corporation of New York
No Drawing. Application March 17, 1949, Serial No. 82,015
7 Claims. (Cl. 99—130)

1. The method of forming a colored gelatinous composition of matter which comprises forming an aqueous-glycerin solution of a color compound, colloidally dispersing the color solution mechanically into a liquid phase aqueous gelatinous solution, incorporating in the liquid phase colloidal dispersion thus obtained a proportion of an edible dispersing agent for said colloidally dispersed color solution, and cooling the dispersion to the solidification temperature of the gelatinous solution.

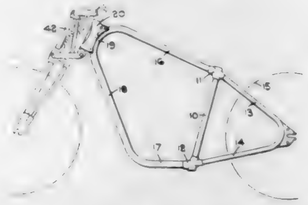
2,535,539
BOTTOM MARGIN CONTROL DEVICE FOR TYPEWRITERS
Chin Yi Lee and Quang Hsi Hu, New York, N. Y.
Application August 29, 1949, Serial No. 112,944
7 Claims. (Cl. 197—189)

1. A bottom margin control device for typewriters comprising a frame adapted to be connected to the side of a typewriter, a small pinion gear adapted to be connected to the typewriter roll extension, gear means shiftable upon the frame and in one position thereof engageable with the small gear on the typewriter roll extension, a disc indicator interlocked with the shiftable gear means to operate with the same to give an indication of the number of lines which can be made after a prior signal, and a finger engageable means connected to the frame and to the shiftable gear means to operate the same, said finger engageable means adapted to extend into engagement with the paper sheet within the typewriter and adapted to fall from the same upon the bottom edge of the sheet being reached whereby to cause the engagement of



the gears with one another and the movement of the indicating disc, said finger engageable means comprising a scale arm having scale indications thereon to indicate the length of the margin desired at the bottom of the sheet, a slide adjustable upon said scale arm and adapted to be fixed in its adjusted position, and a finger extending laterally from the slide on the scale arm for engagement with the paper sheet and adapted to drop downwardly therefrom upon the paper sheet being advanced through the typewriter.

2,535,540
MOTORCYCLE FRAME
Walter F. Lechmere, Birmingham, England, assignor to The James Cycle Company Limited, Birmingham, England
Application July 9, 1948, Serial No. 37,831
In Great Britain February 3, 1948
3 Claims. (Cl. 280—281)

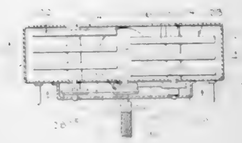


1. In a motor cycle frame the combination of a main frame of looped formation in which the upper and forward members are formed of a single length of tube and merge into one another through an arcuate portion, with a mounting member for the front fork assembly comprising a bearing tube and a folded sheet metal plate having a part-cylindrical central portion embracing the tube and welded thereto, and rearwardly directed side portions on each side of said tube extending tangentially and substantially parallel to each other from the walls of said tube to define a cavity into which the arcuate portion of the frame engages, the arcuate portion being positioned in substantially tangential relationship to said bearing tube, and being welded to said side portions of the sheet metal plate.

2,535,541
SWITCH FOR OVERHEAD TRACKS
Sidney Le Fiell, San Francisco, Calif.
Application September 2, 1947, Serial No. 771,760
1 Claim. (Cl. 104—101)

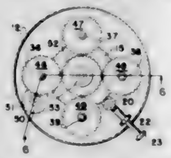
A switch unit for suspended overhead tracks and comprising a pair of straight track sections in end-to-end alignment, a curved track section spaced laterally from one of said straight track sections, an inverted U-shaped brace connecting said curved section and one of said straight track sections, said U-shaped brace being attached to the side of said straight and curved sections at a point below the top plane thereof, a bridge piece connecting said curved section and the other of said straight track sections not connected to said U-shaped brace, the top of said bridge piece being below the plane of said straight and curved sections, and means for alternately moving a curved switch provision onto said bridge portion, or a straight switch portion between the two straight track sections.

2,535,542
PORTABLE FRUIT PICKING DEVICE
James Clair Lehman, Paradise, and Maurice E. Lehman, Bareville, Pa., assignor to Paul B. Mellinger, Willow Street, Pa.
Application January 22, 1948, Serial No. 3,676
4 Claims. (Cl. 56—330)

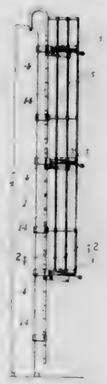


1. A portable fruit picking device, comprising a receptacle, rotary picking elements mounted upon the receptacle and including generally radial arms, each arm tapering outwardly so that it has increased flexibility toward its outer end, and means for driving the rotary picking elements, the arm of one rotary picking element being in staggered relationship with the arms on the other rotary picking element, whereby they can freely rotate without contacting one another.

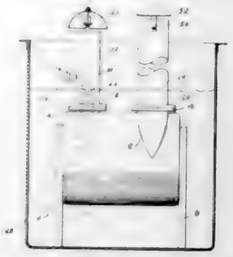
2,535,543
GEOGRAPHICAL MULTIPLE DIAL WATCH
Benjamin Maizlish and Bernard L. Maizlish, Baltimore, Md.
Application January 3, 1947, Serial No. 720,132
2 Claims. (Cl. 58—43)



1. The combination with a watch works, a spring motor and a centrally located spring motor gear driven by the spring motor, of a casing for said works, a shaft in said casing offset from the center of the motor gear, a gear at the lower end of said shaft in mesh with the motor gear, a spur gear at the upper end of said shaft, a minute hand carried by said shaft, a centrally located plate blanking the central portion of the works, a stub shaft projecting upwardly from said plate, an idler gear freely rotatable on said stub shaft and meshing with said spur gear, a plurality of pinions meshing with said idler and placed equidistantly about the periphery thereof together with said spur gear, shafts for said pinions, minute hands mounted on said shafts, hollow hubs mounted axially of said shafts and of the shaft of the aforementioned spur gear, hour hands carried by said hubs, gears for rotating said hubs, reducing means between said last named gears and said spur gear, whereby a plurality of time-indicating systems are provided, and dials for each of said time-indicating systems cooperating with their respective minute and hour hands.

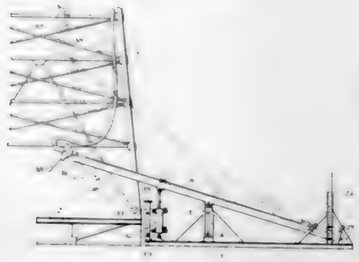
2,535,544
SAFETY LADDER
William D. McKinley, Tulsa, Okla.
Application January 9, 1948, Serial No. 1,371
7 Claims. (Cl. 228—45)

1. A safety ladder comprising a plurality of ladder sections, said ladder sections being supported for limited upward and downward movement in stationary platform frames, hinged platform sections in said frames, lever connections between said platform sections and the ladder sections, counterweight means carried by the platform sections, said platform sections being opened by the downward movement of the ladder sections when additional weight is added to the ladder sections.

2,535,545
SUBMERGIBLE HEATER FOR STOCK TANKS
Dean Moss, Tulsa, Okla., assignor to Heat Equipment Company, Tulsa, Okla., a corporation of Oklahoma
Application May 17, 1948, Serial No. 27,531
5 Claims. (Cl. 126—360)



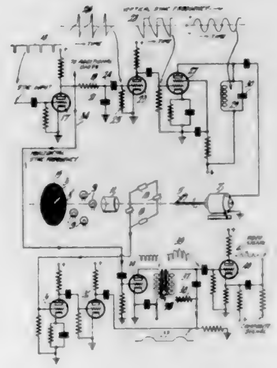
1. A submergible heater for stock tanks comprising a longtiudinally disposed imperforate cylindrical tank, down draft flue means connecting with the tank and having a tank inlet tangentially disposed relative thereto, a burner disposed in the flue means, fuel inlet means connecting with the burner, said burner disposed in the flue means for directing the flame into the tank in a tangential path whereby the gases in the cylindrical tank are heated and caused to move in a helical path, and exhaust means horizontally spaced from the flue means and tangentially mounted on the tank.

2,535,546
KELLY HANDLING DEVICE
William A. Pitts, Tulsa, Okla.
Application January 23, 1948, Serial No. 4,012
11 Claims. (Cl. 214—1)



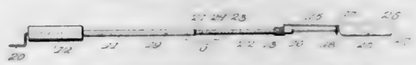
1. A handling device adapted to be disposed adjacent a derrick structure and to receive thereon a kelly and move said kelly away from the center of the derrick and to the side of the derrick, said device comprising a hinged rockable platform having one of its ends extending into the derrick and its outer end extending away from the side of the derrick, said platform being mounted for rockable movement in a vertical longitudinal plane, a traveller carriage within said platform and adapted to move from end to end of said platform across its hinged point, a kelly end receiving sleeve carried by said carriage and hingedly mounted thereon, means for rockably moving said platform on its hinged point in a vertical longitudinal plane whereby said carriage is moved to the outer end of the platform and the kelly deposited on the platform.

2,535,547
TELEMETERING SYSTEM
Waldemar J. Poch, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 10, 1946, Serial No. 695,845
6 Claims. (Cl. 177—351)



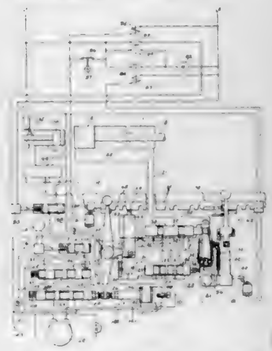
1. A telemetering system comprising in combination an indicating device having a movable mechanical pointer and a background associated therewith, said pointer and its associated background having contrasting light shades, a second mechanical pointer rotatable about its axis at a predetermined rate of rotation, said second pointer and its associated background having contrasting light shades, an optical lens positioned intermediate said pointers, said pointers and said lens so positioned along an optical axis such that the optical image of the plane of movement of one of said pointers is focused at the plane of movement of the other of said pointers, a lamp positioned adjacent one of said pointers to illuminate said pointer, a light sensitive device positoned adjacent the other of said pointers, a remote indicating device controlled in synchronism with said predetermined rate of rotation of said second pointer, and a signal transmission circuit between said light sensitive device and said remote indicating device to control said remote indicating device in accordance with the illumination of said pointer adjacent said light sensitive device.

2,535,548
FOLDABLE ROASTING SPIT
Carl W. Porter, Alexandria, Va.
Application February 16, 1948, Serial No. 8,550
2 Claims. (Cl. 99—421)



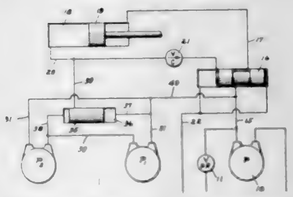
1. A roasting implement comprising a tubular shaft having two detachable sections, a handle on one section, a guide projecting from the other section, a jointed rod slidably extending through the shaft, a crank on the rod beyond the handle, and an undulating extension on the other end of the rod for sliding movement through the guide, said second shaft section forming a stop for the undulating extension when retracted out of the guide.

2,535,549
CAM GRINDING MACHINE
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application October 14, 1948, Serial No. 54,370
5 Claims. (Cl. 51—72)



1. In a grinding machine, a work carriage, means for rotatably supporting a work piece thereon, means for rotating said work piece, means for effecting longitudinal movement of said carriage, means for effecting said movement intermittently for grinding axially spaced portions on a work piece, means for returning the carriage to starting position and stopping the work rotation after the last portion has been ground including a reversing lever normally in position for said return movement, a latch for holding said lever in position for said intermittent movement, a switch operated by said lever at the beginning of said intermittent movement for starting said work rotation, and means responsive to said intermittent movement for releasing said lever.

2,535,550
FEED MECHANISM
Ralph E. Price, Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa.
Application February 18, 1949, Serial No. 77,218
6 Claims. (Cl. 60—52)



1. A feed mechanism for a machine tool comprising a piston and cylinder, one of which is attached to the part to be moved, a supply of fluid under pressure for causing relative movement between said piston and cylinder including a reversing valve for directing said fluid alternately to opposite ends of said cylinder, means for con-

trolling the rate of said relative movement during a feeding operation including differential metering pumps connected in a circuit in which fluid lines connect the outlet of each pump with the inlet of the other, a connection between said circuit and said supply of fluid under pressure, a balancing valve including a piston and cylinder having equal areas at each end a connection from one end of said valve to one of said lines, a connection from the other end of said valve to the other line, and connections between said balancing valve and one end of said feed cylinder for conducting a volume of fluid equal to the difference in output of said pumps.

2,535,551

PREPARATION OF SUBSTANTIALLY PURE AMMONIUM CHLOROIRIDITE SOLUTION

Alan Richardson Raper and Samuel John Rimington Fothergill, London, England, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 4, 1948, Serial No. 52,782. In Great Britain October 6, 1947

6 Claims. (Cl. 23—87)

1. In a process for producing a substantially pure solution of ammonium chloroiridite from impure ammonium chloroiridate from which substantially pure iridium may be recovered, the improvement which comprises reducing impure ammonium chloroiridate in the presence of water with at least one reducing agent from the group consisting of the sulfides, hydrosulfides, polysulfides, thiosulfates, and formates of ammonium and of the alkali metals and the alkali metal nitrites to produce an aqueous solution of ammonium chloroiridite containing metallic impurities and having a pH between about 1 and about 3; thereafter fractionally precipitating the metallic impurities from said solution by adding at least one precipitating agent from the group consisting of the sulfides, hydrosulfides, polysulfides and thiosulfates of ammonium and of the alkali metals to said solution while maintaining said solution at a pH between about 1 and about 3 to produce an ammonium chloroiridite solution substantially devoid of metallic impurities from which substantially pure iridium may be recovered.

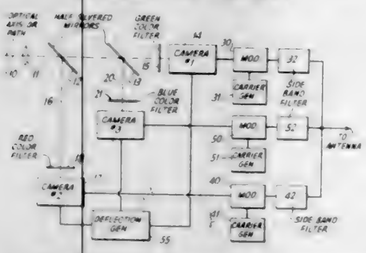
2,535,552

COLOR TELEVISION APPARATUS

Alfred C. Schroeder, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1946, Serial No. 706,613

3 Claims. (Cl. 178—5.4)



1. A color television transmission system comprising in combination a plurality of image pick up devices each responsive only to a different selected component color image, a radio frequency carrier signal generator for each of said image pick up devices, signal modulating means connecting each of said image pick up devices with a carrier signal generator for modulating each carrier in accordance with signals representative of the different selected component color images, a carrier signal radiating system for all the modulated carrier signals and a separate band-pass filter connected to pass each of the modulated carrier signals to said signal radiating system, said band-pass filters each passing only the carrier and equal but relatively small fractional parts of the frequency range of one side band and unequal but relatively large fractional parts of the other side band of the modulated carrier to which it is responsive.

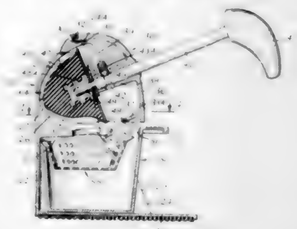
2,535,553

FRUIT JUICE EXTRACTOR WITH A PIVOTALLY MOUNTED ROTATABLE REAMER

Arthur Merrick Stoner, West Hartford, Conn., assignor to The Hartford Products Corporation, Hartford, Conn., a corporation of Connecticut

Application March 3, 1948, Serial No. 12,770

3 Claims. (Cl. 146—3)



1. A juice extractor, comprising a stationary member having a cup-like cavity formed therein, internal projections lying in angularly spaced axial planes in said cavity, a rotatable reamer member having external projections therein lying in axial planes having different angular spacing than that of said internal projections so that only one of the internal projections can register with but one of the external projections at one time, means for bringing said members into cooperative relation with a part of a fruit interposed between them, and means for rotating the reamer to bring each of the projections thereon into successive registration with the projections in said cup-like cavity.

2,535,554

CLOSE-COUPLED ELECTRICAL TRANSFORMER

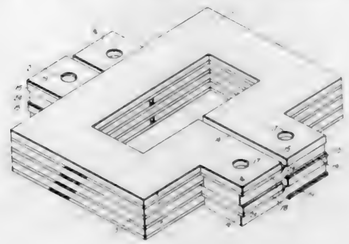
William H. Thurston, Contra Costa, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application January 24, 1949, Serial No. 72,380

4 Claims. (Cl. 175—356)

1. An interleaved, closely coupled transformer including a magnetic core having a winding leg, a primary winding and a secondary winding interleaved with the primary winding, each of said windings being formed of a plurality of thin, flat winding leaves of conductive metal in the form of interrupted annuli surrounding the winding leg and a layer of insulating material between each pair of adjacent leaves, each leaf forming one turn of one of said windings and the leaves of one winding being uniformly distributed over the length of the other winding, a pair of contact lugs extending from each leaf, the lugs

on the leaves of the primary winding extending outwardly from the winding at a different peripheral location from that of the lugs on the secondary winding all the lugs of the primary winding being aligned in register with each other and all the lugs of the secondary winding being



aligned in register with each other, and a plurality of bridges of conductive sheet metal for each winding having engaging portions shaped for flat engagement with alternate lugs of adjacent leaves of the same winding for connecting said leaves in series.

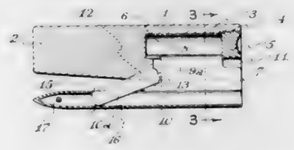
2,535,555

LETTER AND PACKAGE OPENER

James O. Tilly, Tulsa, Okla.

Application April 17, 1947, Serial No. 742,034

1 Claim. (Cl. 30—125)



A letter opener comprising an elongated cylindrical handle member, a finger below said handle in spaced relation thereto and of reduced cross sectional area in relation to the handle, said finger being chambered, a flange carried by the upper side of the finger at its rear end, said flange extending upwardly through an elongated slot in the under side of the handle, said slot extending through the rear end of the handle, said flange being formed from registering plates carried by the upper side of the finger at the rear end of the finger, the upper ends of said registering plates terminating in a cylindrical chambered member having its axis in the plane of the flange and disposed in a longitudinal chamber extending into the rear end of the handle, a threaded plug threaded into the rear end of the handle and engaging the rear end of the cylindrical chambered member to force said finger forwardly in relation to the handle, an upwardly and rearwardly inclined blade interposed between the finger and the handle member, the lower end of said blade extending into the finger adjacent its forward end and into engagement with a shoulder carried by the upper side of the finger and engaging the upper forward corner of the blade, the lower forward corner of the blade engaging in the bottom of the chamber of the finger, an upwardly and rearwardly inclined shoulder carried by the under side of the handle and engaging the upper rear edge of the blade, the forward lower portions of the registering plates being outwardly offset and thereby forming a shoulder engaging the lower rear end of the blade.

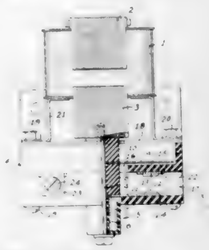
2,535,556

ELECTRIC SWITCH

Joseph M. Tyrner, New York, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York

Application September 6, 1946, Serial No. 695,201

2 Claims. (Cl. 200—87)



1. An electric switch comprising a housing having a partition therein whereby the housing provides an air chamber and a switch contact chamber, said partition having a central opening therein interconnecting said chambers, a pair of stationary contacts in said contact chamber, a movable contact bridge member in said contact chamber, a switch actuating member extending through the opening in said partition and connected to said bridge member, and a piston plate in said air chamber connected to said actuating member whereby operation of said actuating member to move the bridge member away from said contacts also moves the piston plate to force air out of the air chamber and into the contact chamber to provide a blast of air between the contacts and said bridge member, the said housing having ports for accommodating the flow of air into and out of the contact chamber.

2,535,557

EMULSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS

Warren L. Walton, Schenectady, N. Y., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 27, 1948, Serial No. 4,707

13 Claims. (Cl. 260—82.7)

1. The process which comprises polymerizing an organic compound containing the $CH_2{=}C<$ group and which is capable of being polymerized by a peroxide catalyst, in aqueous emulsion in the presence of a tertiary menthane thiol in an amount of about 0.05% to about 1.0% based on the monomeric material.

2,535,558

FREE PISTON INTERNAL-COMBUSTION GAS GENERATOR OPERATED AT CONSTANT COMPRESSOR CLEARANCE VOLUME

Robert James Welsh, Rugby, England, assignor to The English Electric Company Limited, London, England, a British company

Application October 14, 1947, Serial No. 779,799

In Great Britain September 30, 1942

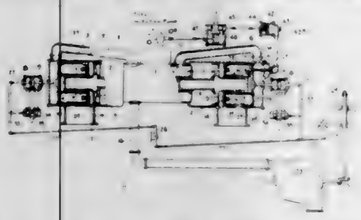
Section 1, Public Law 690, August 8, 1946

Patent expires September 30, 1962

12 Claims. (Cl. 60—13)

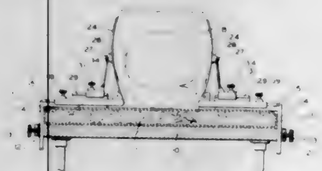
3. A free piston internal combustion gas generator for supplying motive fluid to a gas turbine, and comprising a combustion cylinder, at least

one compressor cylinder, at least one engine piston and at least one compressor piston adapted to reciprocate together as a free piston assembly in the said cylinders at a variable length of stroke depending on the load on said gas turbine, a movable end boundary wall at the end of the clearance space of the said compressor cylinder,



and automatic adjustment means responsive to the load on the gas turbine, and adapted to move the said boundary wall in a sense to reduce substantially any variations of the said clearance space over a range of outer dead centre positions associated with the said variable length of stroke of the said free piston assembly.

2,535,559
SURGICAL CLAMP
Monroe Wolf, New Orleans, La.
Application March 15, 1949, Serial No. 81,420
1 Claim. (Cl. 311—10)



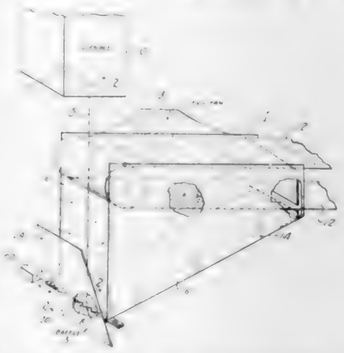
In a surgical body clamp, an L-shaped bracket having a horizontal leg T-shaped in cross-section, a base having a longitudinally extending T-shaped slot engaging said horizontal leg, a thumb screw engaging in said base for contact with said horizontal leg, a T-shaped rib extending along said base, a slide having a longitudinally extending T-shaped slot engaging said rib, a thumb-screw engaging in said slide for contact with said rib, hinge lugs on the forward end of said base, a body engaging plate having one end loosely pin connected to said lugs, other hinge lugs on the forward end of said slide, a link hinged to said last lugs at one end and extending towards the central portion of said plate, and a loose pin hinge connection between the other end of said link and said plate.

2,535,560
SHOE WITH MARGINALLY-DOWNTURNED SOLE
Ralph I. Barr, Auburn, N. Y.
Application May 2, 1949, Serial No. 90,833
2 Claims. (Cl. 36—12)

2. A shoe of the character described comprising an upper composed of a unitary vamp and tongue portion, and a unitary quarter portion having its lower front edge portions overlapped upon the rear edge portions of the vamp at opposite sides of the tongue, a sole portion having its margin turned down and fitted within the lower portion of the upper, a single ribbon lacing securing the overlapped edge portions of the vamp and tongue portion and the quarter portion together, and the lower edge portions of the vamp and tongue portion and the quarter por-

tion to the margin of the sole portion, and a lace for drawing the upper front edges of the quarter portion together to secure the shoe on the foot of the wearer.

2,535,561
AUTOMATIC STRAND STARTING MECHANISM
Richard R. Bastian, Toledo, Ohio
Application December 27, 1949, Serial No. 135,164
5 Claims. (Cl. 49—17)

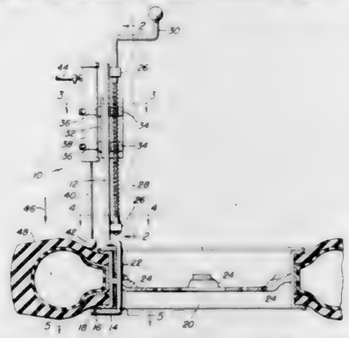


1. In an apparatus for manufacturing glass fibers which includes a container for molten glass, means for projecting the molten glass in separate strands, a perforate continuous strand attenuating belt, and means for creating a low pressure area within the belt to hold the glass strands onto the surface thereof, the improvement comprising severing means positioned in alignment with free-falling glob-bearing glass strands and adapted to sever the glob from the strand, means for directing the glob-bearing glass strands through the severing means, and an enclosure surrounding a portion of the perforate continuous belt, said enclosure connected at one end to the means for creating a low pressure within the belt and open at another end adjacent the path of the free-falling glob-bearing strands so that the cut strands are urged upwardly into contact with the continuous attenuating belt.

2,535,562
TIRE LOOSENING TOOL
Sam Boger and Dale V. Davis, Dodge City, Kans.
Application December 16, 1948, Serial No. 65,598
2 Claims. (Cl. 157—1.26)

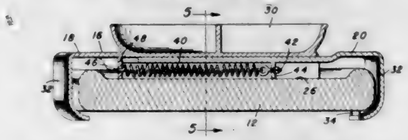
1. In a tire loosening tool, the combination of a support bar having an angulated end portion adapted to engage a wheel rim, a carrier longitudinally adjustable on said support bar, means for adjusting said carrier, an air cylinder

including a reciprocable piston rod secured to said carrier, a tire pressing member provided on said piston rod, said member being movable toward the angulated end portion of said support bar upon actuation of said cylinder, said means



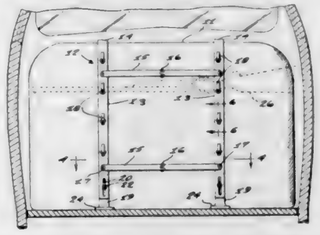
including a screw-threaded shaft rotatably mounted on said support bar in spaced parallel relation thereto, and a handle provided on said shaft, said carrier being provided with a screw-threaded bore operatively engaging said shaft.

2,535,563
DISH ATTACHMENT FOR HIGH CHAIRS
Warren G. Boyer, Canal Winchester, and Charles E. Dunlap, Carroll, Ohio
Application August 8, 1949, Serial No. 109,158
4 Claims. (Cl. 65—54)



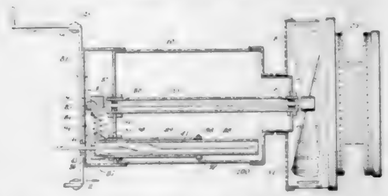
1. In a dish attachment for trays and the like, the combination of a platform adapted for positioning on a support and consisting of a pair of slidably telescoped sections, downturned support engaging flanges provided on said sections at relatively opposite ends of the platform, resilient means for sliding said sections together, and a dish provided on one of the sections.

2,535,564
AUTOMOBILE SUPPORTING RACK FOR FIREARMS AND THE LIKE
Earl M. Campbell, Detroit Lakes, Minn.
Application October 1, 1948, Serial No. 52,286
3 Claims. (Cl. 224—42.42)



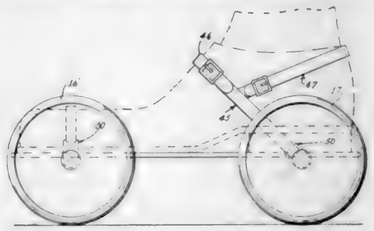
1. An automobile rack device comprising a pair of upright bar members formed at their top ends with hook elements fitting over the top of the front seat of an automobile, a foot member adjustably secured to the lower end of each upright member, said foot member having a flat foot piece hinged thereto, a plurality of rearwardly extending upwardly facing hook members on each upright bar member, and a pair of horizontal cross bars connecting said upright bar members.

2,535,565
ATMOSPHERE PURIFYING DEVICE
Eugene Cohn, Chicago, Ill.
Application November 13, 1944, Serial No. 563,254
5 Claims. (Cl. 21—77)



1. The combination with a carrier for a substance from which a volatile agent may be drawn by the passage of air currents, and a support for the carrier journaling the spindle of a rotary fan designed to create such current; of means to impart a sudden rotary impulse to said spindle comprising a wheel mounted on the latter and having a roughened periphery, a flat rod parallel to the spindle and longitudinally slidable in the support, the rod having a twisted portion, a member journaled in the support and having a narrow central receptacle through which the rod is slidable and which induces the member to take a partial turn when said twisted portion passes through the receptacle, and a radial projection from said member designed to engage said wheel with wiping pressure when the member takes said turn, the departure of the projection from the wheel inducing said impulse.

2,535,566
ROLLER SKATE
Millard Collier, Vinita, Okla., assignor of one-half to Cecil D. Stephens, Omaha, Tex.
Application November 26, 1948, Serial No. 61,957
2 Claims. (Cl. 280—11.19)



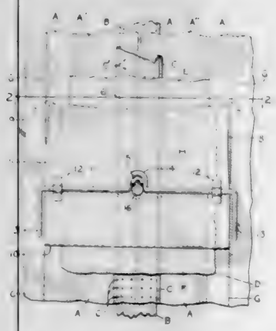
1. In a skate including a platform, a pair of spaced axles arranged transversely of said platform and supported on the under surface thereof, and a wheel having a tire thereon rotatably supported on each end of each of said axles, the improvement comprising providing the exterior face of each of said wheels with a projection in the form of a cone, said cone extending outwardly of and beyond the outer face of the tire of the adjacent wheel whereby the conical projection

of one wheel of one skate of a pair of skates may be brought into bearing engagement with the conical projection on a facing wheel of the other skate of said pair of skates to effect a braking action.

2,535,567
AUXILIARY WHEEL FOR MOTOR VEHICLES
Edward Craig, Brea, Calif.
Application May 3, 1948, Serial No. 24,811
15 Claims. (Cl. 301—38)

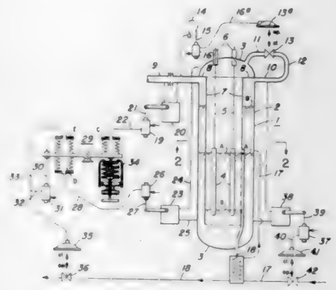
1. An attachment for a vehicle wheel carrying a tire including, a hub section, a wheel section, mounting means securing the hub section concentrically at the outer side of the wheel, and coupling means between the sections joining the sections for limited movement of the wheel section relative to the hub section diametrically of the wheel and also axially thereof including, a flange on the hub section extending parallel with a diametric axis of the hub and parallel with the axis of the wheel, a flange on the wheel section slidably engaged with the flange of the hub section and extending parallel therewith and shiftable transversely of the wheel and also axially thereof, and a member on one flange operating in a cam slot in the other flange, which cam slot extends axially and transversely of the wheel.

2,535,568
TROWELING TOOL
George B. Crippen, Decatur, Ill.
Application May 22, 1948, Serial No. 28,602
2 Claims. (Cl. 72—128)



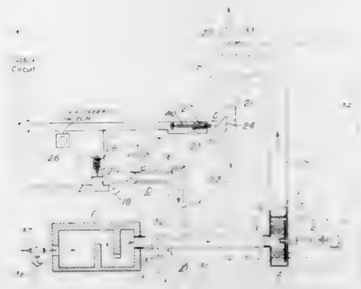
1. A troweling and smoothing tool of the character described, the same comprising a generally flat plate-like body, applicable angularly with one end thereof in slidable and drag relation to the face of the work, said body being generally rectangular and the sliding and dragging end being straight-edged at portions of minor length adjacent each side and corresponding corner of the body but the major portion of said sliding and dragging end edge between said straight-edged portions being cut out and recessed curvedly, whereby, in the use of the tool, the straight-edged end portions ride with scraping effect on the face of the work and the intermediate curvedly cut away and recessed portion is above the face of the work and thus evens out and smooths a body of plastic material on the work, the tool by the aforesaid provision removing excess of such material from the work and leaving the remainder thereof with a transversely convex surface raised above the normal face of the work, and wherein the plate-like body is angularly adjustable for its operation, the provision for adjustment comprising a bail-like element hingedly mounted on the body transversely thereof and having right angular end leg portions ridable supportingly on the face of the work with the body inclined and its straight-edged end portions ridable also on the work, and means for varying and adjustably setting the angular relation between the body and said bail-like element.

2,535,569
CONTROL MEANS FOR ELECTRIC STEAM GENERATORS
Kurt Toensfeldt, Port Washington, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application December 23, 1947, Serial No. 793,485
7 Claims. (Cl. 219—40)



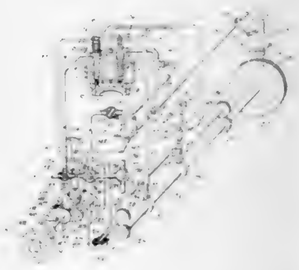
1. In an electric steam generator, a vaporizing chamber, a water-heating electrode within that chamber immersed to a depth dependent upon the chamber water level, a storage chamber separate from said vaporizing chamber but in water-interchange communication therewith, a steam connection from the vaporizing chamber steam space to the storage chamber steam space and a steam offtake from the latter, throttling means in said steam connect on responsive to the steam pressure in one of said two chambers for creating upon the water levels of said chambers a pressure difference which governs the vaporizing chamber water level in a way causing the electrode immersion and hence rate of steam generation to match the rate of steam discharge through said offtake, a feed water connection to the generator, a feed water admission valve in that connection, and means responsive to the water level in one of said two generator chambers for controlling the opening of said feed valve.

2,535,570
CONTINUOUS BATCH FLASH DRIER HAVING COORDINATED FEED AND RECYCLING MEANS
Charles W. Gordon, Glen Ellyn, Ill., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application December 31, 1946, Serial No. 719,346
2 Claims. (Cl. 241—34)



1. In a system for removing water from materials having a high moisture content, the combination of a disintegrator mill, a fan and a separator through which the material being dried flows in series; a source of hot gases; a conduit for conveying the hot gas from said source and said material in suspension therein into said mill; feeder means for delivering the wet material to be dried into said hot gas conduit; a conduit through which said delivered material is carried in suspension in said gas from said mill through the fan and to said separator; a vent on said separator for removing therefrom the portion of said gas that is therein separated from said material; an outlet on said separator for removing the separated material together with the remaining portion of said gas that does not pass out of said vent; a first duct connecting said outlet directly with said hot gas conduit for returning partly dried material in flotation in the aforesaid remaining gas portion from said separator to said mill for further drying; a second duct connected to said outlet for removing sufficiently dried material from the system; a divider vane effective when in a first position to direct all of the partially dried material and said remaining gas portion from said outlet through said first duct into said hot gas conduit for recirculation through and further drying in the system and effective when in a second position to remove all of the sufficiently dried material through said second duct from the system; means including a control device for placing said divider vane alternately in its first and second positions for predetermined periods of time; and means also governed by said control device for causing said feeder means to be inoperative while the divider vane occupies said first position to effect the aforesaid recirculation of the partly dried material, and causing said feeder means to operate while the divider vane occupies said second position to effect the aforesaid removal of the sufficiently dried material from the system.

2,535,571
CONTROL MECHANISM FOR DIESEL ENGINES
Emil Grieshaber and Kurt Froehlich, Milwaukee, Wis., assignors to Nordberg Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 24, 1947, Serial No. 743,710
8 Claims. (Cl. 60—16)

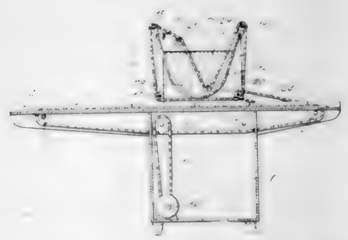


4. In a Diesel engine, separate means for admitting starting air, fuel oil and gas to the engine, unitary manually controlled means for operating said admission means, locking means actuated by the manually controlled means to lock the air and gas admission means in closed position except during the time when one or other of them is positively opened by the manually controlled means.

2,535,572
PREPARATION OF UF_6
Raymond M. Hainer, Revere, Mass., assignor to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application April 9, 1948, Serial No. 20,094
3 Claims. (Cl. 23—14.5)

1. A process of preparing uranium hexafluoride which comprises treating uranium tetrafluoride with anhydrous oxygen at an elevated temperature.

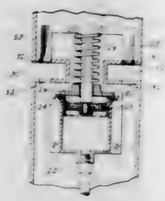
2,535,573
MACHINE FOR STRIP-ICING CONFECTIONS
Charles Hettinger, West Englewood, N. J.
Substituted for abandoned application Serial No. 768,753, August 15, 1947. This application October 20, 1950, Serial No. 191,261
3 Claims. (Cl. 91—2)



1. Confection icing mechanism comprising a support, an endless conveyor mounted on the support and having an upper horizontally

movable run, an applicator support disposed above the endless conveyor and provided with guide members, a plurality of which are positioned just above the upper run of the endless conveyor, an applicator-conveyor trained around the guide members whereby the lower run of the applicator moves substantially parallel to and just above the upper run of the conveyor, said applicator comprising spaced endless elements, a plurality of slack members spanning said elements, said slack members comprising flexible units substantially longer than the distance between the elements and having protuberances, means for simultaneously driving the conveyor and applicator, and means for applying icing to the applicator.

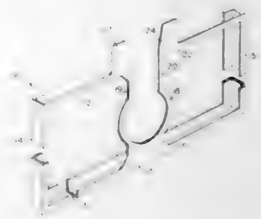
2,535,574
VACUUM OPERATED DOOR LOCK
Robert B. Hill, St. Albans, W. Va.
Application September 12, 1947, Serial No. 773,582
2 Claims. (Cl. 292—144)



1. In a latch mechanism for use in an automobile door post provided with opposed receptacles extending inwardly from opposite sides thereof for the reception of bifurcated lugs carried by the doors mounted adjacent said door post, said latch mechanism comprising a vertically disposed closed ended cylinder positioned below said receptacles within said door post and fixedly secured to the latter, a piston disposed within said cylinder and mounted for sliding movement longitudinally thereof, a rod extending through the upper closed end of said cylinder and slidably mounted in the latter, said rod having its lower end fixedly secured to said piston and having its upper end arranged exteriorly of said cylinder and above said receptacles, a pair of bolt members arranged above said receptacles and mounted on the upper end of said rod for movement into and across said receptacles for interlocking relation with the bifurcated lugs adapted for mounting on said doors, resilient means operatively connected to said bolt members for normally urging said bolt members out of said receptacles, and vacuum actuable means operatively connected to the lower closed end of said cylinder for effecting the movement of said bolt members into and across said receptacles.

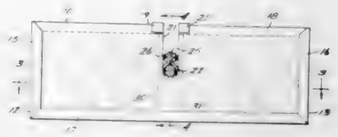
2,535,575
LICENSE HOLDER FOR REARVIEW AUTOMOBILE MIRRORS
Ralph T. Hodges, Sr., Bristol, Tenn.
Application July 24, 1947, Serial No. 763,418
2 Claims. (Cl. 40—16)

1. A device of the character described, which is adapted to be mounted on the rear of a rear view mirror, comprising a U-shaped frame of channel formation, which is adapted to engage the bottom longitudinal edge and the vertical edges of the mirror, a central connecting portion for said frame formed integral with the bottom of said frame, said connecting portion having an



open upper end, horizontal portions connecting the upper open ends of the central connecting portion and the upper ends of the frames and means formed on said horizontal portions for retaining said frame on said mirror.

2,535,576
LICENSE HOLDER FOR MOTOR VEHICLES
Ralph T. Hodges, Sr., Bristol, Tenn.
Application October 7, 1947, Serial No. 778,343
2 Claims. (Cl. 40—16)



1. A license card holder for motor vehicles having windshields with rear view mirrors mounted thereon by a bracket comprising a frame having a back with ends and a lower side and inwardly extending flanges on the said ends and lower side and in which the back is provided with a vertically disposed slot extending downward from the upper edge thereof, said back also having a flange extending rearwardly from the lower end of the slot and clips extending forwardly from the upper edge at the sides of the slot, a U-shaped clamp adapted to mount the frame through the rearwardly extending flange on the bracket of the rear view mirror, and a transparent card holding envelope with flanged ides and also having a vertically disposed slot registering with the slot in the back, said envelope adapted to be inserted in the frame and held therein by the flanges and clips thereof.

2,535,577
WITHDRAWN

2,535,578
RADIO TUBE SOCKET
Bengt J. Johanson, Chicago, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application August 9, 1945, Serial No. 609,732
2 Claims. (Cl. 173—328)

1. A socket for pronged vacuum tubes and the like comprising a socket body of insulating ma-

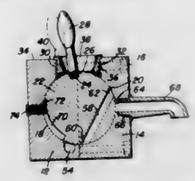
terial having a prong-receiving bore extending through said body between opposite faces, spaced arms extending outwardly from one face of said body on opposite sides of said bore, a fastener-supporting base connected to one of said arms and underlying one end of said bore, said base having a supporting surface spaced from and disposed substantially parallel to the adjacent face of said body, and a fastening device mounted on said base, said fastening device comprising a pair of substantially parallel wire strands connected together by a resilient bight, said resilient bight

and portions of the strands adjacent thereto forming a mounting portion in engagement with said supporting surface, continuing portions of said strands being reversely bent to form a prong-engaging portion disposed in opposed relation to said mounting portion and in tensioned engagement with said adjacent face of said body, and then angularly bent to form a terminal portion extending angularly from said prong-engaging portion, the strands of said prong-engaging portion being disposed on opposite sides of said arms to assist in maintaining said fastening device in mounted position on said supporting base.

2,535,579
LACE LOOM
Robert A. Kennedy and Carmie A. Kennedy, Birmingham, Mich.
Application October 5, 1948, Serial No. 52,884
3 Claims. (Cl. 66—1)

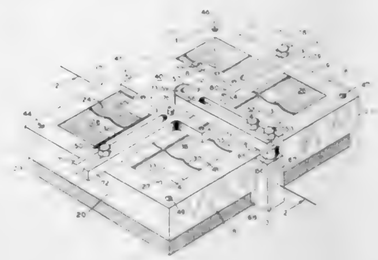
1. A lace loom including a forked or hairpin frame having a pair of parallel rods forming the limbs or arms thereof and an intermediate yoke portion integrally interconnecting the rods at one end of each, a binder adjustably mounted upon the rods, means upon the binder for preventing spreading of said rods, and a movable member adjustably mounted upon said binder and having a portion normally extending between said rods and preventing them from being drawn together during use.

2,535,580
SELF-SEALING SPHERICAL MIXING VALVE
Herbert H. Kersten, Iowa City, Iowa
Application November 10, 1947, Serial No. 785,153
4 Claims. (Cl. 251—91)



1. A valve structure comprising a housing, a passage in said housing, a spherical seat provided in said housing, a spherical valve positioned in said seat, an oblique channel in said valve, an outlet port provided in said housing, inlet ports communicating with said passage, said channel forming a communication between said outlet port and said passage when the valve is in its open position, means for selectively adjusting said valve in said seat for regulating a flow of fluid from said outlet port and from said inlet ports, said valve having a tapered groove therein, and means carried by the housing and received in said groove for forcing a portion of the valve against the inner walls of said seat as said valve is actuated to a closed position for sealing the outlet end of said channel against the inner walls of said seat.

2,535,581
ADJUSTABLE DRILLING JIG
David Klingman, Brooklyn, N. Y.
Application August 2, 1946, Serial No. 687,930
5 Claims. (Cl. 77—62)



1. An adjustable drill jig, comprising: a tool guide, a base having an annular frame member defining a relatively large opening between opposite inner surfaces of said frame member means associating said guide with said base; a plurality of work support members extending between opposite portions of said frame member forming passages; and a frame support member lying below said frame member and having a lower edge; said work support members having lower edges which are disposed above the lower edge of the frame support member; whereby said drill may penetrate the passages between the work support members so that shavings and debris produced by the drill may pass laterally beneath the work support members.

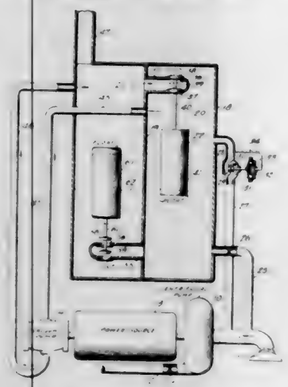
2,535,582
MANUFACTURE OF LAMP STEMS
William J. Knochel, East Orange, and Charles Wiener, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 15, 1946, Serial No. 703,418
1 Claim. (Cl. 49—78)

The method of machine-making stems, each of which comprises a flare tube, an exhaust tube, leads, and a small metal support member to lie between the inner portions of said leads, comprising fusing one end of said metal support member into the adjacent end of said exhaust tube, placing the assembly with said metal support member in the pocket of a supporting jig, placing a lead in a pocket on each side of said assembly, encircling said associated exhaust tube and the portions of said leads which project above their

pockets with a flare tube, applying heat to unite the flare tube to said exhaust tube and inter-

mediate portions of said leads, and developing fluid pressure in said exhaust tube to blow an outlet hole therefrom.

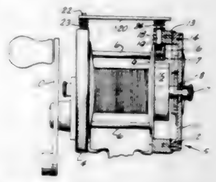
2,535,583
PUMPING SYSTEM
Cornelius Kroll, Houston, Tex.
Application July 26, 1946, Serial No. 686,362
9 Claims. (Cl. 103—113)



1. In a liquid pumping system comprising a pump having an outlet duct and an inlet duct adapted for connection with a source of liquid to be pumped, a chamber, a branch duct connecting said chamber to the inlet duct of the pump, means operative wholly independently of the pumping effect of said pump for maintaining a level of liquid from said source in said chamber above the inlet duct of the pump, and means operative upon a predetermined increase in the pressure in said chamber for closing said branch duct.

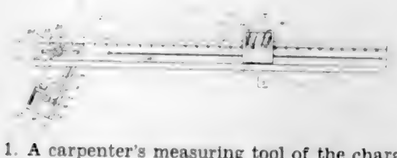
2,535,584
FISHING REEL
Carl R. Lorenz, Santa Monica, Calif.
Application August 30, 1949, Serial No. 113,208
2 Claims. (Cl. 242—84.5)

1. In a fishing reel, in combination with a pair of casing members and a reel spool rotatably mounted therebetween, one of said casing members having a peripheral flange and an end wall cooperating with said spool to define a brake housing, a brake drum attached to the adjacent end of said reel spool and disposed within said housing, an arcuate brake shoe engageable with said brake drum, a push rod to the inner end of which said brake shoe is secured, a bearing bore in said flange in which said push rod is mounted for radially sliding movement, an operator bar rigidly attached to the outer end of said push rod, compressible means engaged between said flange and said bar and yieldingly maintaining said bar and brake shoe in outwardly projected positions with said brake shoe out of contact with said brake drum, a guide pin mounted in



the other casing member, said bar having at its other end an opening slidably receiving said guide pin, and compressible means yieldingly engaged between said other end of the bar and said other casing to maintain said bar in a position extending transversely between said casing members while allowing radial movement of the bar.

2,535,585
ROOF RULER
Kenneth B. Marquiss, Redlands, Calif.
Application November 5, 1948, Serial No. 58,377
3 Claims. (Cl. 33—92)



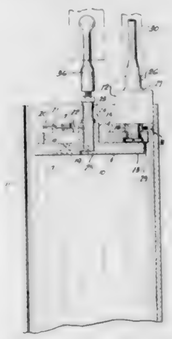
1. A carpenter's measuring tool of the character described comprising an elongated body member provided at one edge with a scale of linear units, a lens slidably mounted for longitudinal adjustment on said body member and overlying the calibrated edge thereof, said body member being formed with a longitudinal slot adjacent the zero end of said scale, a downwardly facing channel member having aligned with one side thereof an upwardly projecting stud passing through said slot, a clamping nut on said stud, whereby said channel member may be angularly and longitudinally adjusted with respect to said body member, an arm pivoted to the channel member, a clamping finger connected to said arm and projecting through a side wall of said channel member, and spring means biasing said arm in a direction to urge the clamping finger inwardly in the channel member, said channel member being formed at the marginal portion thereof opposite said stud with an elongated opening extending along said marginal portion.

2,535,586
HOLDER FOR BULBS
Stanley M. McElroy, Smithfield, Pa.
Application April 22, 1948, Serial No. 22,539
1 Claim. (Cl. 248—200)

In a spotlight having a neck portion and a socket member carried by the neck portion; an adjustable holder comprising a tubular member having one portion embracing the neck portion and another portion embracing the socket member, a longitudinal slit in said tubular member extending only through that portion of the latter which embraces the neck portion of the spot light, a transversely extending slit in said tubular member adjacent the closed end of said first-mentioned slit, an apertured bracket depending from

that portion of said tubular member which embraces the socket member and adapted to be pivoted to a support, a pair of opposed apertured ears depending from that portion of said tubular member embracing said neck portion and adjacent said first-mentioned slit, and a resiliently urged locking pin extending through said ears.

2,535,587
RIDGE GRINDING TOOL
Edward M. McGovern, Maplewood, and Paul Schrick, Newark, N. J.
Application May 1, 1948, Serial No. 24,594
1 Claim. (Cl. 51—245)

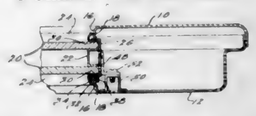


A ridge grinding tool for the boreholes of the cylinders of internal combustion engines; the tool comprising a shaft, one end of the shaft being adapted for releasable insertion in the chuck of the drill press, a lower disc mounted upon the other end of the shaft; the tool further comprising an upper disc, means pivotally mounting the upper disc adjacent the periphery of the lower disc, the upper disc having a closed slot therein receiving said shaft which extends therethrough and the rotation of the upper disc on the lower disc being within the limits of the slot, an abrasive wheel rotatably disposed on the top surface portion of the upper disc, a spring member between the pivotal mounting means of the upper disc and said upper disc and adapted to maintain the wheel under tension against the wall of the borehole, and an adjustable guide adjacent the wheel on the upper disc and adapted to limit the depth of the cut of the wheel, said guide projecting into a line parallel to the axis of the shaft and passing through the outer periphery of the abrasive wheel.

2,535,588
FLUID-DRIVEN IMPACT MECHANISM
Theodore E. Mead, Wilmette, Ill.
Application August 20, 1945, Serial No. 611,521
4 Claims. (Cl. 121—13)

1. An air-hammer comprising a casing, a cylinder supported thereby, a work plunger mounted in said cylinder for a longitudinal stroke therein and having a portion extending beyond said cylinder, means for admitting air under pressure into one end portion of said cylinder to exert pressure upon said plunger, means adjacent the other end of said cylinder but outside the same for preventing movement of said plunger until a predetermined pressure has been built up, said means releasing said plunger under said built-up pressure or in response to manual actuation at the option of the operator, said last-mentioned means including a pivotally-mounted member, cooperating means carried by said pivotally-mounted member and said plunger for normally restraining movement of said plunger, means carried by said pivotally-mounted member permitting manual actuation thereof to release said plunger, a second cylinder, a piston in said cylinder, a rod carried by said piston and adapted to actuate said pivotally-mounted member to release said plunger, and a spring engaging said pivotally-mounted member and normally urging the same against said actuating rod.

2,535,589
OVEN DOOR AND WINDOW UNIT
Herbert E. Mills, Detroit, Mich., assignor to Mills Engineering Company, Detroit, Mich., a partnership
Application November 13, 1948, Serial No. 59,869
3 Claims. (Cl. 126—200)



1. A door comprising a front and a back door panel each having a window opening in alignment with the opening in the other, each of said panels having an inwardly extending flange around the edge of the opening therein, a window unit disposed between said door panels and aligned with said openings and comprising parallel glass panels, a continuous channel-shaped spacing member between said glass panels at the

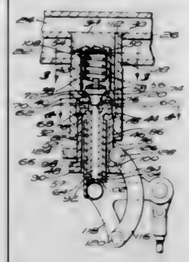
edges thereof, the sides of said spacing member being pressed flat and confined between the inner surfaces of said glass panels so as to provide a seal therebetween, continuous rims each having a flat portion arranged to seat on one of said glass panels on the surface remote from said spacing member, a continuous resilient gasket retained on one of said rims, the flange on the back one of said door panels being engageable with said gasket so as to provide a seal between said back panel and the adjacent rim, a continuous channel-shaped clamping member around the edges of said glass panels and securing said rims on said glass panels and said spacing member between said glass panels, and means for securing said unit to said back one of said door panels with said flange on said back door panel compressing said gasket and the aforementioned parts of said window unit together.

2,535,590

FLUID CHAMBER CONNECTING VALVE FOR PRESSING MACHINES AND THE LIKE

Nicholas Monsarrat, Seekonk, Mass., assignor to Pantex Manufacturing Corporation, Central Falls, R. I., a corporation of Delaware

Application October 15, 1946, Serial No. 703,331
23 Claims. (Cl. 251—134)



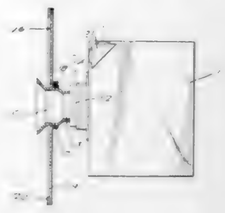
1. A valve structure for connecting two adjacent fluid chambers separated by a partition wall from each other with the fluid in the high pressure chamber being under sufficient pressure to flow into said low pressure chamber, one of said chambers having a hole in its outer wall aligned with a threaded hole in the partition wall, comprising a hollow cylindrical valve casing having a closed inner end and an open outer end, and a central bore constricted substantially centrally thereof to provide a central annular shoulder, providing an inlet chamber between said shoulder and said closed inner end thereof and an outlet chamber between said shoulder and said open outer end, and having an internally threaded outer end, a cylindrical perforated strainer in said inlet chamber, a valve assembly insertable and removable through said open outer end, comprising spring means abutting said inner end, a spring centering and protecting cap overlying said spring means, a valve disc abutting said spring means having an integral valve stem having a centrally enlarged portion having flattened edges slidable through said center shoulder and a stem portion extending outwardly through the open outer end of said casing, a hollow combination gland and valve seat member having an inner end having an exterior sealing portion abutting said annular shoulder, and an interior valve seat portion in said inlet chamber having a circular rim forming a valve seat on the inner end thereof, and an enlarged bore of greater net area than said enlarged stem portion, having radial passages discharging in said outlet chamber and a hollow elongated gland portion containing said stem projecting outwardly through said open casing end and having an outer seat portion on the end thereof, a hollow valve nut having a threaded portion for engaging the internally threaded outer end of said chamber bore terminating in an inner end abutting said valve seat portion and a turning head, a sealing guide cap having an elongated wall covering said hollow gland having a gland sealing disk in the outer end of the recess thereof to abut said valve stem and said outer gland seat when in open position, said casing having a portion externally threaded at the inner end thereof for insertion within said chamber holes and conduit means leading from said high pressure fluid chamber including a portion extending radially inwardly of said cylindrical valve casing into the inlet chamber thereof and conduit means leading from said outlet chamber of said cylindrical casing to said low pressure fluid chamber and means to depress the outer end of said guide cap to urge said valve stem inwardly to raise the valve disk from its seat to pass said fluid from the high pressure fluid chamber to the inlet chamber of said casing and from said outlet chamber of said casing to said low pressure fluid chamber.

2,535,591

POLARIZING LENS SYNCHRONIZER FOR CAMERAS

Charles E. Mosman, New Preston, Conn.

Application June 13, 1947, Serial No. 754,474
1 Claim. (Cl. 95—64)



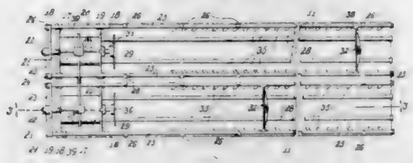
In connection with a camera having a view finder a lens barrel rotatably mounted on the focusing lens-supporting structure thereof and axially aligned with the focusing lens thereon, and a light-polarizing lens mounted in said barrel, the features including a disc member of light-polarizing material which is formed with a central aperture adapted to fit on said lens barrel, a collar secured to said disc member around said aperture and concentrically with the periphery thereof, a plurality of set screws threaded through said collar and engageable with said lens barrel when the disc member is mounted thereon in order to lock the disc member to said barrel in predetermined rotated position of said disc member with respect to the barrel, whereby the polarizing axes of the disc member and lens may initially be brought into and secured in alignment with respect to each other and the lens and disc member may thereafter be rotated as a unit about said axes upon rotary adjustment of the disc member and a ring of relatively stiff material secured to the peripheral portion of said disc member to reinforce the latter, said disc member being of relatively large diameter so that it projects in overlying relation with respect to said view finder and substantially beyond the longitudinal wall planes of the camera.

2,535,592

CHEESE PRESS

Paul Mueller, Springfield, Mo., assignor to Paul Mueller Company, Springfield, Mo., a corporation of Missouri

Application April 25, 1947, Serial No. 743,826
2 Claims. (Cl. 100—55)



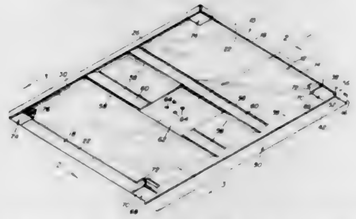
1. In a cheese pressing apparatus having a substantially U-shaped trough, a hydraulic cylinder arranged at one end of said trough, a piston having a piston rod working in said cylinder, a cross-head on said piston rod, a pair of pull rods connected at one of their ends to opposite ends of said cross-head and extending in the direction of, but beyond, the cylinder, a plurality of lugs on said pull rods, said lugs being spaced longitudinally along said pull rods and the lugs on one rod being opposed to the lugs on the other rod, and a ram plate engageable with opposed lugs on both pull rods and movable along the trough upon actuation of the piston.

2,535,593

METAL TABLE TOP FOR DRAFTING TABLES OR THE LIKE

Aubrey S. Murray, Elizabethton, Tenn.

Application February 28, 1949, Serial No. 78,734
3 Claims. (Cl. 311—106)



1. A metal table top having a flat rectangular top panel, an integral end flange at each end edge of said top panel, an integral reinforcing and stiffening flange extending upwardly and inwardly and contacting the top panel in spaced parallel relation to its respective end flange, a pair of spaced parallel stiffeners fixed to the underside of the top panel and extending parallel to the end flanges and in spaced relation thereto, and an attaching plate fixed to the stiffeners and in spaced parallel relation to the top panel, said attaching plate adapted to be secured to the mounting means for support of the top.

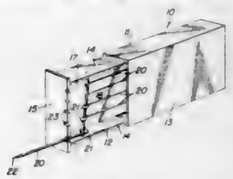
2,535,594

PIERCING DEVICE FOR NIPPLES

William J. O'Neill, Jr., Lake Forest, Ill.

Application November 19, 1947, Serial No. 787,015
4 Claims. (Cl. 164—119)

1. In a nipple piercing device, the combination of an elongated receptacle including a top wall and having an open end, a drawer slidable in said receptacle through the open end thereof and including an outer end wall which constitutes a closure for said open end when the drawer is slid inwardly, a transversely extending rod provided in said drawer adjacent said end wall, and a set of piercing needles independently rotatable on said rod and swingable from an inoperative position in the drawer to an operative position where-



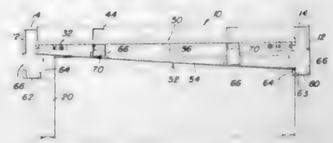
in they project outwardly therefrom beyond said end wall, the upper edge portion of said outer end wall being provided with a set of notches constituting seats for intermediate portions of the respective needles when the latter are in their projected positions.

2,535,595

POCKETED GAME TABLE AND RUNWAY APPARATUS

Bernard C. H. Park and Joe L. Baldwin, Appleton City, Mo.

Application October 13, 1949, Serial No. 121,136
3 Claims. (Cl. 273—11)



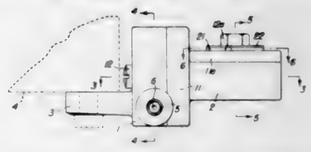
1. A game table comprising a top, supporting legs for said top, upstanding side and end walls on the edges of the top, said walls having spaced vertical openings formed therein and communicating with the top, ball return receptacles at the opposing ends of the top, a longitudinal runway pivoted at its mid point on a horizontal transverse axis and to the central portion of the underside of the table, transverse gutters pivotally secured to the underside of the table for movement about horizontal longitudinal axes and resting on the runway, said gutters communicating with the openings in the side walls and the opposing ends of the runway overlying the return receptacles.

2,535,596

MACHINE VIBRATOR

Edwin F. Peterson, Kewanee, Ill.

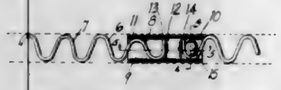
Application November 2, 1948, Serial No. 57,926
4 Claims. (Cl. 259—1)



1. A multiple plane vibrator comprising two air-driven vibrator units containing rollable members and connected at an angle to each other, means for delivering air under pressure to the first one of the vibrator units, and means connecting the vibrator units having a channel therethrough for the passage of air from the first

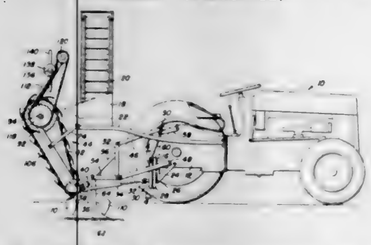
vibrator unit to the second vibrator unit, the means connecting the vibrator units connecting them rotatably with relation to each other but being capable of holding them against rotation about the axis of the connection.

2,535,597
EXPANDER FOR PISTON RINGS
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application November 8, 1948, Serial No. 58,832
9 Claims. (Cl. 309—43)



1. An annular piston ring expander comprising a corrugated strand of spring wire stock with the corrugations disposed axially of the expander, and a tubular coupling member of radially flattened section with which the end corrugations of the strand are engaged, the coupling member having an intermediate upset therein providing abutments for the ends of the strand, the coupling being further upset to retainingly engage one end of the strand, the other end being removably engaged in the other end of the coupling member.

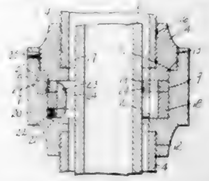
2,535,598
SUGAR BEET PICKUP MACHINE
Alfred J. Poppie, San Francisco, Calif., assignor of one-fifteenth to Wilford G. Poppie, one-fifteenth to John H. Poppie, both of Victor, Mont., one-fifteenth to Mary D. Kellogg, and two-fifteenths to Ruth F. Poppie, both of San Francisco, Calif.
Application February 6, 1948, Serial No. 6,592
6 Claims. (Cl. 55—51)



1. A sugar beet harvesting machine for use with a tractor having a power take-off and a hopper, comprising a frame securable to a tractor, an endless elevator operably mounted on said frame and driven by said power take-off, beet engaging means carried by said elevator, a rotating knocker operatively mounted on said frame to knock the beets from said means into said hopper, said frame including a pair of nearly upright members, and said knocker including a pair of bars spaced equally from and carried by a shaft mounted transversely of and between said upright members.

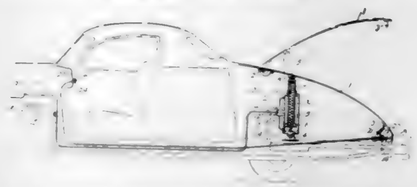
2,535,599
CABLE CLAMP
Richard A. Preston, Kalamazoo, Mich.
Application January 22, 1947, Serial No. 723,649
17 Claims. (Cl. 285—170)

1. A cable clamp of the type described comprising a hexagonal shaped body portion defining a central cylindrical recess and a tangential bore opening on one face of said body and intersecting said recess, an annular shoulder extending radially outwardly from one end of said recess, an annular flange extending radially inwardly from the other end of said recess, an internally threaded bore extending from one end of said body and adapted to receive the end of a guard pipe against said flange, a second internally threaded bore extending from the opposite end of said body and adapted to receive an annular cap member against said shoulder, an annular cap member adapted to fit said second threaded bore, said cap being internally threaded to receive the end of another guard pipe, a cylindrical lug supporting ring positioned in said recess against the opposite surface of said flange from said first pipe, a cam ring having a cylindrical contour positioned in said recess and adjacent to said lug supporting ring, said lug supporting ring being notched on



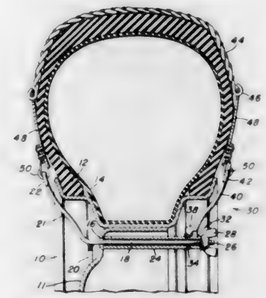
one end at equally spaced intervals therearound and adapted to pivotally support a plurality of gripping lugs in said notches, a plurality of gripping lugs having end portions pivotally supported in said notches and cable engaging ends extending at an angle thereto, spring means arranged to urge the cable engaging ends of said lugs radially outwardly of said recess, cam surfaces formed on the inner side of said cam ring and arranged to force the cable engaging ends of said lugs radially inwardly upon rotation of said cam ring relative to said lug supporting ring, gear teeth formed along the periphery of said cam ring, a manually operable pin journaled in said tangential bore and having a worm formed thereon engageable with said gear teeth, an externally threaded bushing positioned in said bore and supporting the outer end of said pin whereby said pin is removable through said bore when said bushing is removed, and a closure plug for sealing the end of said bore.

2,535,600
MOTOR VEHICLE LUGGAGE COMPARTMENT CLOSURE OPERATING MECHANISM
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application June 14, 1947, Serial No. 754,671
2 Claims. (Cl. 268—75)



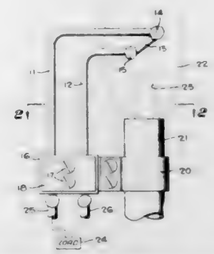
1. A motor vehicle luggage compartment provided with an upwardly swinging closure, a pneumatic motor comprising a chamber and a piston operable therein, one of the motor elements being pivotally connected to a fixed part of the luggage compartment and the other motor element being pivotally connected to said closure, with a spring interposed between the piston and chamber elements for being compressed therebetween by and upon movement of the closure to its closed position whereby to provide a cushioned support for the closure when otherwise free, means for locking the closure in its closed position, and means for operatively admitting fluid under pressure to the motor for lifting the closure when the latter is unlocked.

2,535,601
ATTACHMENT FOR SNAP-ON SNOW CHAINS
Philip Rawl, Brookline, and Sumner Rosoff, Dorchester, Mass.
Application August 30, 1948, Serial No. 46,846
4 Claims. (Cl. 152—242)



1. The combination of tire chains, a plate secured to each end of said chains, a wheel with transverse apertures therein, sleeves extending through said apertures, bars of greater length than and extending through said sleeves, spiders on the ends of the bars on one side of said rim, rim-engaging members on each bar on the ends of the bars on the other side of said rim, oppositely disposed rim-spanning arms having eye terminals and carried by one end portion of each bar and by said spiders, said hooks securing said plates to said eye terminals.

2,535,602
THERMOCOUPLE FOR GAS OR OIL BURNERS
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application July 12, 1948, Serial No. 38,343
3 Claims. (Cl. 136—4)



1. A thermocouple structure formed of two end conductors and an intermediate conductor, all three conductors being serially joined to form a pair of thermoelectric junctions, said intermediate conductor being of a material thermoelectrically dissimilar to those of the end conductors, both junctions thus formed being inserted in a flame and located at points in the flame that would have substantially the same temperature if the junctions be removed from the flame, the end conductors being dissimilar and of the same cross sectional areas, the heat conductivity of one of them being greater than that of the other end conductor, and the thermoelectric power of the junction formed between the intermediate conductor and that end conductor which has greater heat conductivity being less than that of the other junction.

2,535,603
CLOTHES HANGER
Thomas Henry Riddell, North Sydney, New South Wales, Australia
Application March 8, 1948, Serial No. 13,591
In Australia April 3, 1947
3 Claims. (Cl. 223—95)

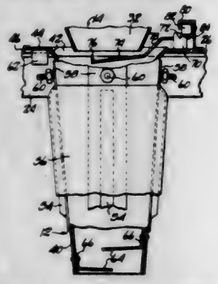
1. A clothes hanger including an open ended rail which is hollow at least adjacent to its ends, angle members each comprising an approximately horizontal part and a part depending downwardly and outwardly approximately at right angles to the horizontal part, the horizontal parts of the respective angle members being adapted to fit slidably and rotatably in the ends of the rail and resiliently controlled frictional means enclosing each angle member adjacent to each end of the rail for retaining the horizontal parts of the angle members in any desired position within the rail.

2,535,604
PROCESS OF PREPARING WAX COMPOSITIONS
Knapel F. Schiermeier, Alton, and Walter E. Heinz, Roxana, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 6, 1947, Serial No. 772,596
17 Claims. (Cl. 196—17)

1. A process for preparing a protective coating composition comprising: heating a residual petrolatum wax containing a minor amount of petroleum oils, said wax having an A. S. T. M. melting point of between about 130° F. and about 160° F., to a temperature between about 5° F. and about 20° F. above said melting point, vigorously agitating the resultant semi-liquid, at this temperature for a period of time sufficient to obtain finely dispersed solid wax particles in a liquid phase, continuing the agitation while allowing the resultant semi-liquid material to cool to a temperature between about 5° F. and about 30° F. below said melting point sufficiently to partially solidify the liquefied phase into a substantially increased number of finely dispersed solid wax

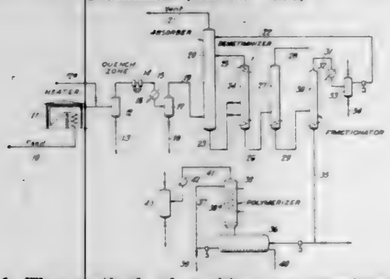
particles in a remaining liquid phase, and blending therewith within said lower temperature limits and with agitation a mineral spirits petroleum distillate having a boiling point range between about 300° F. and about 400° F.

2,535,605
SAND DRIER
Buford R. Smith, Mishawaka, Ind.
Application August 1, 1949, Serial No. 107,942
10 Claims. (Cl. 34—44)



1. A sand drier comprising a support, a heated chamber carried by said support and open at its top and bottom, a feed hopper carried by said support above said chamber to discharge therein, a vibrator carried by said hopper, a switch controlling said vibrator, and a shiftable switch actuator carried by said support and positioned below the discharge outlet of said hopper.

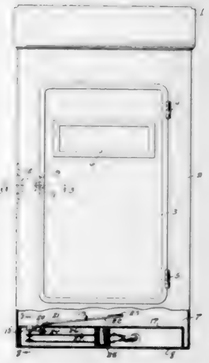
2,535,606
UNSATURATED HYDROCARBON PRODUCTS AND METHOD OF MAKING SAME
Frank J. Smith, Galveston, Tex., assignor to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware
Application December 27, 1946, Serial No. 718,859
3 Claims. (Cl. 260—666)



1. The method of making an unsaturated hydrocarbon drying oil having an iodine number of about 190 to 230 and a refractive index (N_D^{25}) of about 1.525 to 1.550 which comprises subjecting to pyrolysis at a temperature of at least 1300° F. a hydrocarbon gas having at least two carbon atoms selected from the class consisting of paraffins and olefins, quenching the pyrolysis products to prevent polymerization reactions, compressing the gaseous reaction products to a pressure of at least 350 p. s. i., absorbing condensable hydrocarbons from the gaseous products in a light absorption oil at said pressure, removing propane and lighter hydrocarbons from the absorption products, distilling light liquid pyrolysis products and said absorption oil from the heavier pryolysis products, further fractionating the heavier pyrolysis products into an unsaturated oil fraction consisting essentially of hydrocarbons having at least nine carbon atoms, and polymerizing said unsaturated oil fraction to produce said drying oil.

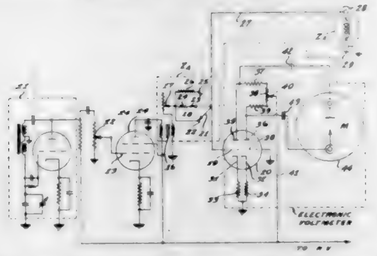
3. A hydrocarbon drying oil characterized by a refractive index (N_D^{25}) of about 1.525 to 1.550, a density (D_4^{25}) of about .9745 to 1.0114, a color less than 4 A. S. T. M. and a high iodine number of about 190 to 230 prepared by the pyrolysis at a temperature of at least 1300° F. of hydrocarbon gas having two to four carbon atoms selected from the class consisting of paraffins and olefins, quenching the pyrolysis products to avoid polymerization reactions, recovering condensable hydrocarbons from the reaction products and separating therefrom an unsaturated oil fraction about nine carbon atoms and polymerizing said unsaturated oil fraction to produce said drying oil.

2,535,607
MAILBOX SWITCH
Norman R. Smith, Laurel Springs, N. J.
Application April 10, 1946, Serial No. 661,165
1 Claim. (Cl. 200—57)



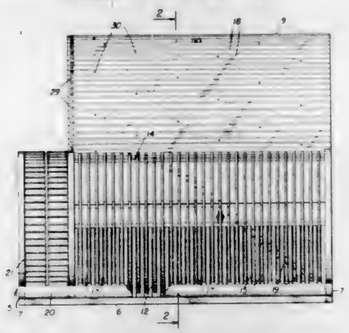
In a mail box signal device, the combination which comprises an elongated rectangular shaped vertically disposed housing, an inverted box-like tray positioned in the lower part of the housing and having a slot in the upper surface, said tray providing a supporting stand for mail deposited in the housing, a block of insulating material positioned in the said tray, a pair of spaced parallel contact arms carried by said block of insulating material and extended therefrom, contacts points positioned on the inner faces of the outer ends of said parallel contact arms, an L-shaped lever having a long leg and a short leg and having a U-shaped member extended from the end of said short leg positioned in the housing with the short leg extended through the slot of the tray and with the long leg extended over the upper surface of the tray and spaced from said upper surface, means pivotally mounting the said L-shaped lever through the outer arm of the said U-shaped member on the end of the short leg thereof in the tray with the arm of the said U-shaped member extended from the short arm of the lever positioned to engage one of the said parallel contact arms whereby mail deposited in the box depresses the said long leg of the said L-shaped lever positioned above the tray and thereby actuates the said parallel contact arm engaged by the arm of the U-shaped member of the lever and closes the said contact points carried by the parallel contact arms.

2,535,608
ELECTRONIC IMPEDANCE METER
Rex E. Smith, Bakersfield, Calif.
Application August 26, 1947, Serial No. 770,577
1 Claim. (Cl. 175—183)



An instrument for measuring inductive impedances comprising an audio frequency oscillator, an inductive impedance separate from said audio frequency oscillator, circuit means connecting said inductive impedance in series with said oscillator, said means including a rheostat, a plurality of resistors, each connected at one terminal to one terminal of said rheostat, and switch means selectively contacting the remaining terminals of said resistors for connecting a desired resistor in circuit with said impedance, a dual triode, means connecting said switch means to a first grid of said dual triode, means connecting the second grid of said dual triode to said oscillator, whereby said grids are in series relation with the oscillator and said inductive impedance, a potentiometer winding connecting the plates of the triode, a contact arm adjustably engaging said winding and connected to a source of direct current plate voltage, an alternating current meter connected across said plates, and a pair of test jacks connected to the respective grids of said dual triode, whereby the meter may be set to a zero reading by short-circuiting said test jacks and adjusting said contact arm.

2,535,609
PHONOGRAPH RECORD RACK AND SELECTOR
Hal H. Spillman, Wichita, Kans.
Application September 8, 1947, Serial No. 772,731
6 Claims. (Cl. 312—19)

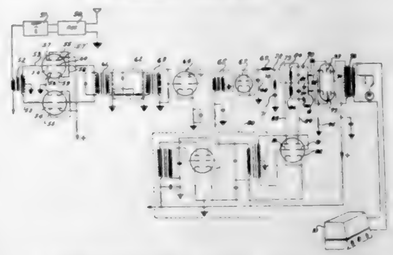


1. In a phonograph record rack, means supporting a plurality of records in upright position in the rack, and coacting indexing means between the records and the rack including identification means carried at the peripheral edge of the records and staggered in spiral formation, said means first mentioned interlocking with the edges of the records to releasably hold the same against rotation with the identification means in spiral form.

2,535,610
PHOTOGRAPHIC FACSIMILE RECORDER USING A CRATER LAMP
Louis A. Thompson, Rocky River, Ohio, assignor to NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware
Application August 8, 1946, Serial No. 689,114
2 Claims. (Cl. 178—6.7)

1. An exposure device for exposing pictures to selectively produce positives or negatives of the transmitted picture from a transmitted facsimile signal comprising a receiver for receiving the signal, a full wave rectifier connected to the receiver for rectifying the signal and converting it to a pulsating negative direct current the amplitude of which varies in accordance with the modulation component of the signal, a direct current amplifier including a vacuum tube having a control grid directly connected to the rectifier output, said amplifier having an output, power supply means for supplying voltage to the amplifier, exposure means for connection in the output circuit of said amplifier tube in series with the power supply for making positives or in shunt with the tube for making negatives including a crater lamp, switch means for connecting said crater lamp into the circuit including a switch having swingable terminals connected to the crater lamp, the anode of said tube having a pair of switch contacts for alternate connection to each of said swingable terminals, one of said swingable terminals being arranged to be connected to the cathode of the tube or the anode and the other of said terminals arranged to be connected to the anode of the tube or to the source of power supply respectively.

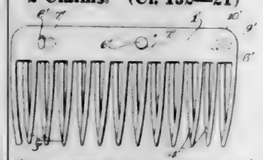
2,535,611
FREQUENCY MODULATED PICTURE RECEIVER
Louis A. Thompson, Rocky River, Ohio, assignor to NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware
Original application April 22, 1944, Serial No. 532,252. Divided and this application June 21, 1949, Serial No. 100,489
5 Claims. (Cl. 332—43)



1. A signal restoring system comprising a source of carrier frequency, an electron tube in the out-

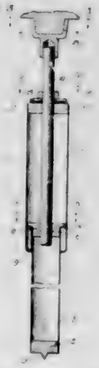
put of said frequency source and having a pair of grids and a pair of anodes, said grids being coupled to said frequency source, a source of signal frequency and means connecting said signal frequency source to said anodes in said tube, said anode circuit including a pair of resonant circuits tuned to the frequency of said carrier frequency source, an amplifier, and means coupling said resonant anode circuits to the amplifier, said amplifier being adapted to amplify said modulated carrier.

2,535,612
COMB
Stanford Llewelyn Treloar and James Gilbert Innes, Toronto, Ontario, Canada
Application August 15, 1947, Serial No. 768,818
2 Claims. (Cl. 132—21)



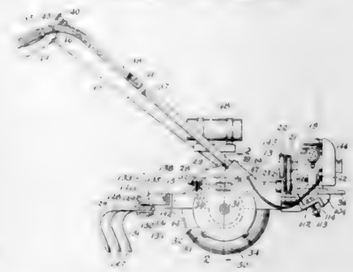
1. A comb comprising a pair of matching curved sections connected for longitudinal movement with relation one to the other, teeth curved longitudinally in one direction formed on one of said sections, teeth curved longitudinally in the opposite direction formed on the other of said sections, and interengaging means carried by said sections for locking them in one position with the lower tip of each tooth of one section in relative spaced relation to the lower tip of the next successive tooth of the other section and for locking them in position when said sections are moved to bring said tips into contact, said means embodying a pair of sockets spaced longitudinally of each other formed in the confronting face of one of said sections and a stud projecting from the confronting face of the other of said sections adapted to register with each of said sockets in different relative positions of said sections.

2,535,613
LAVATORY LEG ASSEMBLY
Willard Fredrick Vanderbeek, Sycamore, Ill., assignor to Turner Brass Works, Sycamore, Ill., a corporation of Illinois
Application August 15, 1946, Serial No. 690,788
6 Claims. (Cl. 45—139)



3. A lavatory leg assembly comprising, a metal tubular leg member having fixed in its bottom end a metal plug formed with a pointed projection and fixed in its upper end a bushing having a threaded opening and an outwardly extending annular flange, a metal threaded rod threadably mounted in said bushing, a metal sleeve of larger diameter than the tubular leg member and having fixed in its upper end a bushing having a threaded opening and having formed on its bottom end an inwardly extending flange positioned below said annular flange, said tubular leg member bushing flange being rotatable and longitudinally movable within the sleeve and said sleeve flange having a central opening of smaller diameter than the leg bushing flange and being rotatable and longitudinally movable on the tubular leg member, said rod being threadably mounted in the sleeve bushing and having on its top end a cup-shaped member adapted to receive a complemental projection on the under surface of the lavatory, a washer above the sleeve bushing, and a nut threaded on the rod above the washer for clamping the washer between the nut and the sleeve bushing.

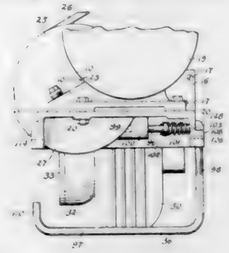
2,535,614
GARDEN TRACTOR
Carl Van Ausdall, Liberty, Ind.
Application July 17, 1946, Serial No. 684,173
11 Claims. (Cl. 180—19)



1. A garden tractor or the like comprising in combination, a frame including guiding handle means and a traction wheel having a hub, a rotatable axle journalled in the frame and extending through the hub, a variable speed motor and power transmission means mounted on said frame and arranged to motor drive the axle and the wheel, and clutch means associated with said wheel and axle for terminating the drive connection between the traction wheel and axle while maintaining driving relationship between said motor and axle.

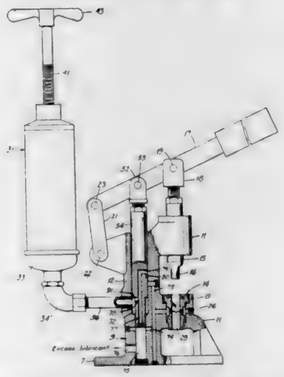
2,535,615
GARDEN TRACTOR
Carl Van Ausdall, Liberty, Ind.
Original application July 17, 1946, Serial No. 684,173. Divided and this application March 11, 1948, Serial No. 14,253
6 Claims. (Cl. 180—19)

1. A garden tractor which comprises a main frame, a traction wheel journaled on said main frame, a motor mounting bracket attached to and extending forwardly of said main frame, a motor mounted on said bracket forwardly of the wheel to overbalance the frame forwardly, handle means attached to said frame and extending rearwardly thereof, there being a transverse bore in one side wall of said bracket, a resilient U-shaped bumper-stand having a pair of spaced, substantially parallel side members, and a leg member connecting said side members, one of said side members being journaled in said bore, the other side member substantially spanning the tractor, said other side member having a free end, said bumper-stand being adapted to swing



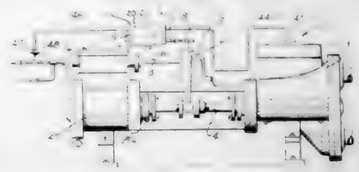
between a raised substantially horizontal position for forming a bumper and a lowered substantially vertical position for forming a stand, and means for holding the bumper-stand in each of said positions.

2,535,616
BULLET LUBRICATOR
Lucius E. Wadman, Mill Valley, and Frederick J. Gomes, Tiburon, Calif.
Application February 10, 1947, Serial No. 727,506
4 Claims. (Cl. 86—19)



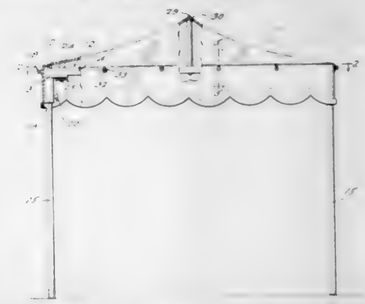
1. A bullet-sizer and lubricator comprising a bullet-sizing die having a channel for lubricant passage to said die; a lubricant supply normally maintained under a first pressure to supply lubricant to said channel; a conduit connecting said lubricant supply to said channel; a supplemental lubricant pressure chamber; a lubricant pressure piston movable in said supplemental chamber to apply a second pressure in excess of said first pressure to lubricant in said channel; a valve in said conduit including a valve member movable between a valve open position wherein lubricant can flow through said conduit and a valve closed position wherein the valve member prevents the flow of lubricant through said conduit; a plunger for forcing a bullet through said die; a lever connected to said plunger, said valve member, and said pressure piston for moving said plunger, valve member and piston; said lever arm being movable in one direction simultaneously (1) to position a bullet inside of said die, move said valve member to said open position and move said pressure piston to supply a lubricant under said second pressure to a bullet in said die and in another direction simultaneously (2) to move said plunger away from a bullet in said die, move said valve member to a valve closed position and retract said pressure piston from its pressure application.

2,535,617
CONTROL MECHANISM FOR PUMPS
William C. Westbrook, Grapeland, Tex.
Application February 10, 1948, Serial No. 7,407
11 Claims. (Cl. 103—13)



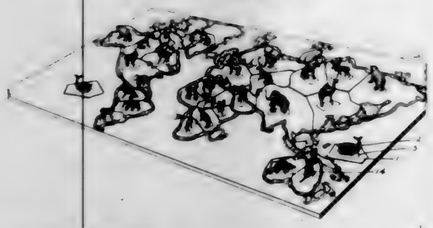
1. In a fluid pressure regulator, the combination with a fluid supply apparatus having a fluid actuated fluid supply valve for controlling the supply of motivating fluid in a fluid inlet line, of a fluid pressure generating apparatus having a conduit interconnecting said fluid pressure generating apparatus and said motivating fluid supply valve for actuating said fluid supply valve, means for maintaining a maximum gauged opening of a valve for regulating the pressure on said fluid pressure generating apparatus so as to govern the maximum operating speed of said fluid supply apparatus, pressure means operated by the discharge pressure of said fluid supply apparatus for regulating the minimum speed thereof.

2,535,618
PORTABLE TENT OR CABAÑA STRUCTURE
Paul V. Williams, Los Angeles, Calif.
Application December 31, 1948, Serial No. 68,586
5 Claims. (Cl. 135—7.1)



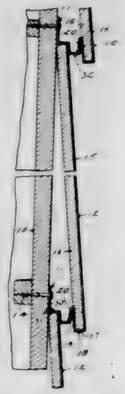
4. A shelter of the character described, comprising four bracket members, each having a depending vertical sleeve and an upstanding inwardly facing corner angle, vertical post members respectively received in the depending sleeves of said bracket members, horizontal side bars received in the corner angles and connecting the bracket members to define a quadrangular horizontal frame, a horizontal diagonal cross bar connecting diagonally opposed bracket members, a vertical upstanding post element secured to the intermediate portion of said cross bar, a cover of flexible material overlying the frame and supported at its inner portion on the top end of said post element, and means detachably securing the outer portions of said cover to the outer portions of said frame.

2,535,619
EDUCATIONAL TOY
John H. Wright, Chicago, Ill.
Application August 2, 1949, Serial No. 108,075
1 Claim. (Cl. 35—42)



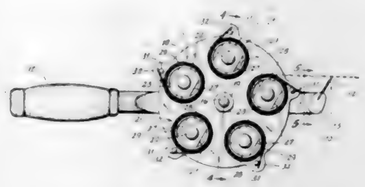
An educational toy comprising a thick cardboard body member adapted to lie horizontally in a flat position on a table, said body member having drawn thereon the continents and larger islands of the world, a plurality of segments cut out from said body member and removable from and returnable to said body member, said segments following substantially the geographical lines of the continents and islands, and a plurality of upright members, each of said upright members having a platform at its lower end and an animal figure attached to said platform and extending vertically thereabove, each of said upright members having its platform attached to one of said segments, each of the vertically extending portions of said upright members adapted to be used as a handle and each of the vertically extending portions of said upright members having an animal figure characteristic of the geographical area represented by the segment to which it is attached to aid in replacing each segment in its proper place in the body member.

2,535,620
METAL SHINGLE AND STRIP
Alfonso Alvarez, Jr., Upper Montclair, N. J.
Application April 21, 1947, Serial No. 742,903
6 Claims. (Cl. 108—17)



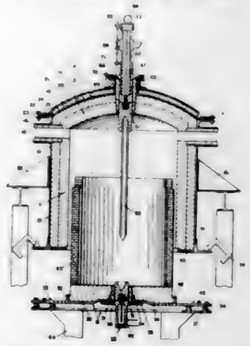
1. An improved shingle comprising a metal body, insulating material fixed under one surface of said body, a reverted U-shaped lower end on said body encompassing the lower edge of said insulating material, and a reverted downwardly extending shingle attaching hook on the inner edge of said U-shaped lower end of said body.

2,535,621
DISPENSER FOR TAPE
Mark B. Andrews, Kirkwood, Mo.
Application March 25, 1947, Serial No. 736,928
14 Claims. (Cl. 242—55.4)



1. In a portable dispenser for tape and the like, a support including a handle portion for supporting said dispenser during use, a severing device on the support, a rotatable member on the support, a plurality of tape holding means on the rotatable member, said tape holding means being disposed around the center of the rotatable member.

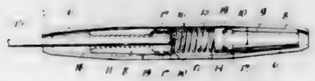
2,535,622
PRODUCTION OF METAL FROM ITS ORE
Georges Jules Auguste Bassereau, Paris, France, assignor to Societe d'Etudes pour L'Industrie du Magnesium, Paris, France
Application July 10, 1946, Serial No. 682,460
In France July 12, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 12, 1961
8 Claims. (Cl. 75—10)



1. A metallurgical furnace comprising a cylindrical dome having a refractory lining adapted to serve as a metallurgical reduction chamber, a platform having a refractory block adapted to support a cylindrical charge and to complete the refractory lining of the reduction chamber, electrodes carried by dome and platform, a resistor carried by one electrode and adapted to make contact with a conical socket in the other electrode when the dome is closed by the platform, means to seal the joint between dome and platform, elevator means to move the platform to and away from the dome, and means to supply current to the electrodes.

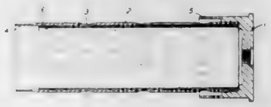
5. The art of reducing an ore of a metal which is obtained at reducing temperature as a vapor that includes the steps of constructing from the ore and a reducing agent a structure substantially free from voids having its ore-containing parts substantially equidistant from a linear source of heat, heating said structure by a source of sufficient intensity to raise the ore to reducing temperature and at such a distance therefrom that the temperature falls within the structure at a gradient that is substantially constant.

2,535,623
WIRE GRIPPING ASSEMBLY AND CASING CONNECTOR
Stephen P. Becker, Poughkeepsie, N. Y., assignor to Fargo Mfg. Company, Inc., Poughkeepsie, N. Y., a corporation of New York
Application May 10, 1947, Serial No. 747,250
2 Claims. (Cl. 24—81)



1. In a connector, a tapered casing, a wire gripping assembly in said casing spring biased within said casing, a cylindrical, radially rigid wall in said wire gripping assembly, a plurality of radially movable jaws separated by slots between their respective longitudinal edges mutually fixed on and integral with said radially rigid wall, a disc immovably fixed on said wall, said cylindrical wall and said fixed disc providing an anchor support for said radially movable jaws whereby the spring bias of said assembly against said tapered casing flexes said jaw elements radially in their fixed positions on said rigid wall.

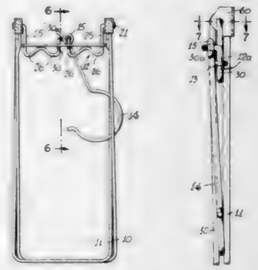
2,535,624
CARTRIDGE CASE FOR AMMUNITION
Charles Dennistoun Burney, Baynards Park, near Cranleigh, England
Application March 22, 1946, Serial No. 656,488
In Great Britain March 29, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 29, 1964
6 Claims. (Cl. 102—38)



1. Ammunition for quick firing breech loaded guns having a breech chamber of greater diameter than the bore of the gun barrel, comprising in combination, a disc-shaped base piece; a cartridge case having a cylindrical wall of apertured construction and mounted on said base piece concentrically with the same; a projectile fitted into the mouth of said cartridge case; and a relatively short spacing ring having a greater diameter than said cartridge case and mounted on said base piece spaced from said cartridge case, said relatively short spacing ring being open at its front end so as to communicate with said breech chamber when it is inserted into the same, spacing said cartridge case from the wall of the breech chamber.

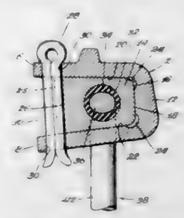
2,535,625
FOLDABLE SUPPORT FRAME FOR GARMENT BAGS
Bernard Corwin, Easton, Pa.
Application January 10, 1949, Serial No. 70,057
3 Claims. (Cl. 211—118)

1. A foldable frame for garment bags comprising a pair of shoulder members which are pivotally connected to each other, a pair of U-shaped clips pivotally connected to said shoulder members to prevent pivotal movement thereof beyond a given point, a corrugated clothes hanger supporting bar having arm portions pivotally connected to said shoulder members and



a frame supporting hook swivelly connected to said corrugated bar, a locking member being slidably mounted on said arm portions for movement toward and away from said bar to close and open the corrugations for locking and unlocking purposes.

2,535,626
BRAKE HANGER AND METHOD OF MAKING
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application October 6, 1948, Serial No. 53,058
12 Claims. (Cl. 188—206)

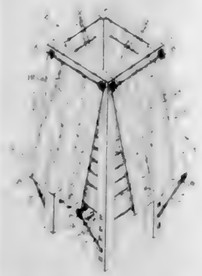


1. In a brake arrangement, support means having a cylindrical opening therethrough, a hanger having a pivot element extending through said opening, said element being oval-shape in cross section with its major diameter disposed substantially normal to the plane of said hanger and element, and a cylindrical bushing of flowable resilient material within said opening compressed between said element and support means, said bushing having a normal cylindrical aperture distorted by said element to oval shape by deforming said material and causing it to flow from the spaces between the periphery of the opening and areas of said element adjacent an axial plane of said element coplanar with said diameter to spaces at opposite sides of said plane.

2,535,627
ACTIVATED COMPOSTER
George H. Earp-Thomas, Glen Ridge, N. J.
Application June 16, 1948, Serial No. 33,426
3 Claims. (Cl. 98—54)

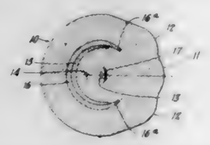
1. A composter, comprising a bottom frame, posts extended vertically between the corners of said frames, louvers mounted horizontally between adjacent posts and slanted downward and

inward, grates mounted across the bottom frame, air shields having their top ends pivotally attached to the top frame and having their bot-



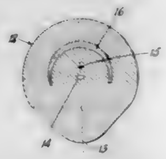
tom ends extended downward across the outer faces of said louvers to the bottom frame, and means for holding said air shields in various pivoted positions relative to said top frame.

2,535,628
THERMOMETER TUBE
Charles Owen Fairchild, St. Albans, N. Y.
Application June 8, 1946, Serial No. 675,399
21 Claims. (Cl. 73—371)



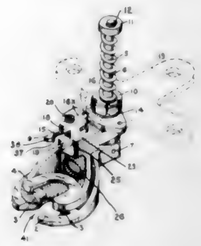
1. A glass thermometer tube having a longitudinal bore, a viewing lens on the front of said tube focused in the rear of said bore, at least one auxiliary lens adjacent said viewing lens focused on said bore, a longitudinal dark stripe embedded in said tube embracing more than the rear half of said bore, a longitudinal light stripe embedded in said tube outside said dark stripe embracing said bore on all sides except in the angle subtended by said lenses at said bore, and a thin diffusing stripe parallel to said bore subtending at said bore at least the angle of said viewing lens.

2,535,629
THERMOMETER TUBE
Charles O. Fairchild, St. Albans, N. Y.
Application July 8, 1947, Serial No. 759,569
11 Claims. (Cl. 73—371)



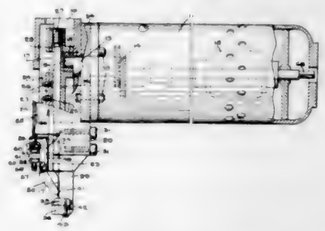
1. A thermometer tube having a longitudinal bore, a lens having its principal focal line behind said bore, and a light-colored longitudinal shield stripe embracing said bore from the rear subtending at said bore in cross-section an angle of more than 180° and not more than 210°.

2,535,630
LAMP FLARE HOLDER
Stanley J. Gartner, Emporium, Pa., and Edwin W. Barrett, Danvers, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application November 25, 1944, Serial No. 565,167
4 Claims. (Cl. 49—2)



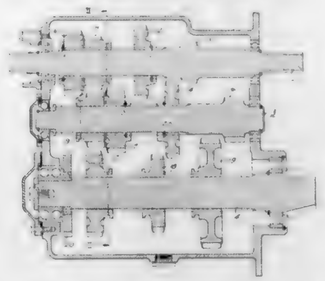
4. A flare holder comprising: a support for a flare conforming generally to the truncated conical base of a flare; a hold-down member above and in register with said support, said member having a portion in the form of a modified annulus for contacting the base of a flare; a spring for urging said support and said hold-down member toward each other; and means to maintain the support and hold-down member in alignment.

2,535,631
SHEET METAL CUTTING TOOL
Charles B. Gray, Springfield, Pa.
Application December 16, 1944, Serial No. 568,509
9 Claims. (Cl. 30—241)



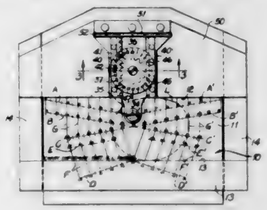
1. In a motor-operated hand-held nibbling tool for slitting sheet material, a reciprocable punch, a relatively fixed guide for said punch having a punch-backing part terminating at its lower end in a die support, said punch-backing part having a flat frontal face of a width not exceeding the width of the punch and of gradually reduced cross-section rearwardly of said face, said die support extending frontally of said punch-backing part and laterally to either side thereof and being provided with an opening therethrough, one edge of which is defined by a continuation of said flat face of the punch-backing part, and a die plate carried by said support, said die plate being notched to provide a pair of laterally spaced rearwardly extending arms which overlie the laterally extending portions of the die support, said arms having terminal extremities which interlock with the rear ends of the die support to prevent forward displacement of the die plate relatively to said punch-backing part.

2,535,632
CHANGE-SPEED TRANSMISSION
Charles H. Herr, Jr., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 5, 1949, Serial No. 91,513
15 Claims. (Cl. 74—342)



1. A change speed transmission comprising, in combination, a drive gear mounted in axially fixed position on a rotatable driving shaft for rotation in unison therewith, a rotatable countershaft at a predetermined transverse spacing from said driving shaft, range selecting gearing operable to alternatively establish high and low ratio unidirectional driving connections between said driving and countershafts and including said drive gear and a countergear mounted on said countershaft at a predetermined axial spacing from said drive gear, a rotatable driven shaft at a predetermined transverse spacing from said driving and countershafts, and a driven gear mounted on said driven shaft in nonrotatable relation thereto for shifting movement from a neutral position selectively in one direction into mesh with said axially fixed countergear and in the other direction into mesh with said axially fixed drive gear.

2,535,633
DEVICE FOR AID IN DRILLING OPHTHALMIC LENSES
Clarence L. Hobbs, St. Louis, Mo.
Application October 25, 1947, Serial No. 782,066
2 Claims. (Cl. 33—174)



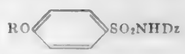
1. In a device for the general purposes described, a base provided with a top planar surface constituting a lens rest, a pair of abutments each providing a linear shoulder normal to the base, one of said abutments forming an upper shoulder extended across the full horizontal width of the base and being fixed with respect to the base, and the other abutment and base being relatively movable, and the second said abutment forming a shoulder for engaging the lower margin of a lens on the lens rest, and being movable toward and away from the first said abutment, and a series of linearly arranged graduated indicia on the lens supporting surface of the base, said indicia being presented in right and left hand, symmetrically related series, the lines of indicia of each of said series being located in acute angled relation to the abutments, and those of the companion series converging toward a top-to-bottom center line on the lens supporting surface, each of said abutments being of a horizontal length to provide a shoulder slidably engaged by a lens, which shoulder extends laterally of each side of the base, and exceeds twice the width of a lens, a sub-base operatively attached to the base for slidable guided movement with respect thereto, the movable abutment being attached to the sub-base and guidedly engaging the side margins of the base.

2,535,634
SEAL RING
Bruce W. Hubbard, Oak Park, Ill., assignor to Ideal Roller and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 28, 1949, Serial No. 90,194
7 Claims. (Cl. 288—11)

3. A seal ring comprising a helically wound coil of wire connected at its end and forming a radially expansible and contractible annulus, a tape wrapped helically around said annulus to completely cover all parts of the latter while being radially expansible and contractible with the annulus, and an integral sleeve of molded resilient material covering said wrapping and bonded thereto.

2,535,635
SUBSTITUTED PYRIMIDINES AND PREPARATION OF THE SAME
Martin E. Hultquist, Bound Brook, N. J., and Yellapragada SubbaRow, Pearl River, N. Y.; Aloysius J. Bryant, administrator of said SubbaRow, deceased, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 3, 1948, Serial No. 42,343
12 Claims. (Cl. 260—256.5)

1. Compounds having the general formula



in which R is a member of the group consisting of hydrogen and acyl radicals and Dz is a pyrimidyl radical with substituents chosen from the group consisting of alkyl, aralkyl, alkoxy, halogen, amino, substituted amino, hydroxy, carboxy, and carbalkoxy radicals, and the salts of said compounds.

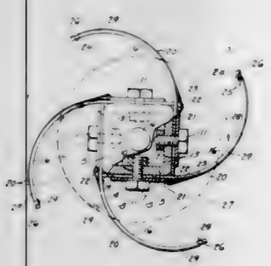
8. A method of preparing N-(4,6-dimethyl-2-pyrimidyl)-1-phenol-4-sulfonamide which comprises the step of treating N-(4,6-dimethyl-2-pyrimidyl)-1-carbethoxyoxybenzene-4-sulfonamide with a hydrolyzing agent until N-(4,6-dimethyl-2-pyrimidyl)-1-phenol-4-sulfonamide is formed and thereafter recovering the said product.

2,535,636
HYDROXYBENZENESULFONAMIDOTRIAZINES AND PREPARATION OF SAME
Martin E. Hultquist, Bound Brook, N. J., and Yellapragada SubbaRow, deceased, late of Pearl River, N. Y., by Aloysius J. Bryant, administrator, South Nyack, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 7, 1949, Serial No. 69,823
3 Claims. (Cl. 260—249.6)

1. Compounds having the general formula:

where Triz is a 1,3,5-triazinyl radical being attached to the amide nitrogen by a carbon atom of the triazinyl ring, and salts of such compounds.

2,535,637
BORE FINISHING TOOL
Bend L. Johnson, Billings, Mont.
Application June 24, 1948, Serial No. 35,030
4 Claims. (Cl. 51—190)



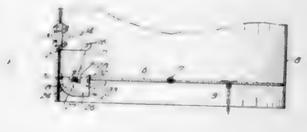
1. In a tool of the character described, a rotatable head providing angularly related clamping faces thereon, a leaf spring element for each face having one end portion abutting the face, a clamping plate for each face having means for fastening the same to the head to clamp the associated leaf spring element therebetween, and a flexible abrasive strip overlying the outer face of each leaf spring element and looped at one end through a slot provided in the associated clamping plate and removably fixed at the other end to the leaf spring element so that the strips may be removed and replaced without loosening the clamping plates.

2,535,638
STUD REMOVING TOOL
Robert Edward Jones, Brooklyn, N. Y.
Application February 2, 1949, Serial No. 74,077
1 Claim. (Cl. 81—13)

A tool for removing broken bicycle studs, such as a broken bicycle pedal stud, comprising an open-ended clamp, having fixed jaws, a blade for engaging a slot in a stud and fixed on one jaw of the clamp, a screw member threaded in the other jaw and axially alined with the blade for engaging the broken end of the stud and holding the blade in the stud slot, a metal tension member extending between and permanently secured to the jaws of the open-ended clamp in transverse relationship thereto at a point between the stud engaging members and the base of the clamp, and

a handle portion fixed to the clamp and providing a lever for turning the blade and broken stud.

2,535,639
DAMPER LATCH
George E. Lauer, Oakland, Calif.
Application July 23, 1946, Serial No. 685,737
4 Claims. (Cl. 126—285)



1. In a member having a passage therein, a valve supported for pivotal movement within said passage in such a manner that an edge thereof is adapted to move downwardly under the influence of gravity to open said valve and to move upwardly against gravity to close said valve, a latch structure comprising means operatively associated respectively with the member and the valve adjacent its said edge and cooperative to hold said valve in closed position, said latch structure comprising a first latch element supported for pivotal movement on said member within the passage thereof above said edge and a second latch element carried by the valve adjacent its said edge and movable therewith from and toward said first latch element, said second latch element comprising a pair of pockets having a guide element therebetween, said first latch element having a portion thereof movable into one of said pockets during the closing movement of said valve, means for guiding said first latch element into the one pocket, receiving means for said portion carried by said second latch element adjacent and above said guide element, said guide element engaging said portion immediately upon entry thereof into the one pocket for guiding said portion toward said receiving means and precluding movement of said portion into the other pocket, said receiving means engaging said portion upon movement of the latter from said guide element whereby said valve is secured in closed position, said portion being adapted to move by gravity into said second pocket upon its release from said receiving means by further upward movement of said edge.

2,535,640
SAFETY CLOTHESPIN AND LINE
John Levine, Brooklyn, N. Y.
Application December 11, 1945, Serial No. 634,262
4 Claims. (Cl. 211—119.13)

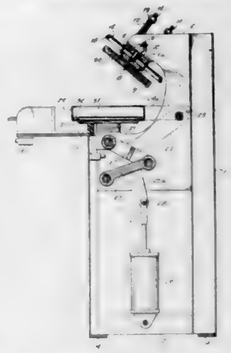
3. A clothes pin comprising an inverted L-shaped rod and a bifurcated gripping element having a head and a pair of spaced depending resilient legs, and the head being provided with teeth on its upper portion, an opening through the head having an axis approximately perpendicular to a plane passing through the longitudinal axes of said legs, and a slot extending through the upper portion of the head into said opening, said L-shaped rod having two legs, and being positioned with one leg extending through said slot and into said opening and connected to the head and the other leg held in one of the teeth.

2,535,641
PIN CLASP
Lawrence L. Levy, Brooklyn, N. Y.
Application October 16, 1947, Serial No. 780,136
6 Claims. (Cl. 2—323)

1. An elastic strap having a buckle on its lower end provided with a hook, a clasp having a back plate provided with an eye to detachably engage the hook and a pin opening located below the eye, a U-shaped wire pin having side piercing prongs insertable through the material of a girdle and into said opening, said back plate having side flanges, and a lever to grip said prongs, said lever pivoted to said side flanges and provided with a short lever arm and a long lever arm, said long lever arm concealing the prongs and protecting the points of said pin when in gripping position.

2,535,642
WET PRESS
Benjamin Liebowitz, New York, N. Y., assignor to Trubenizing Process Corporation, New York, N. Y., a corporation of New York
Application September 29, 1949, Serial No. 118,657
14 Claims. (Cl. 154—1)

1. In a wet press of the character described the combination comprising a stationary support; a stationary inclined upper platen on said stationary support; a lower platen mounted on said stationary support turnable about a horizontal axis between a horizontal wetting position in which said turnably mounted lower platen is spaced from said stationary inclined upper platen and inclined pressing position in which said turnably mounted lower platen is positioned adjacent said stationary inclined upper platen; a vessel adapted to hold liquid and forming part of said lower platen turnably mounted on said stationary support; a padding mounted also on said turnably mounted lower platen turnably together with the same so as to be wetted by said liquid



in said vessel when said turnably mounted lower platen is in horizontal wetting position but to be out of contact with said liquid in said vessel when said turnably mounted lower platen is in inclined pressing position; and operating means associated with said turnably mounted lower platen for tilting the same together with said vessel and padding from horizontal wetting position into inclined pressing position and back.

2,535,643
PROCESS OF PREPARING VINYL RESIN PLASTICIZED SHEETS
Gerry P. Mack, Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation, a corporation of New York
No Drawing. Application July 22, 1947, Serial No. 762,819
7 Claims. (Cl. 260—31.8)

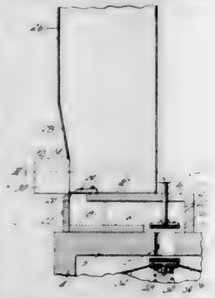
7. A process for preparing a clear, resilient, self-sustaining composition of matter which comprises milling and calendering at a temperature of about 300° F. 1 part of a vinyl chloride-vinyl acetate copolymer with ¼ to 5 parts of a plasticizer which is per se compatible with and a solvent for said resin, said plasticizer being a mixed phthalate ester prepared by reacting 1 mol of phthalic anhydride with 1–1.2 mols of a hydroaromatic alcohol and 0.8–1 mol of an aliphatic alcohol having 4–12 carbon atoms.

2,535,644
STABILIZED SOIL ROAD AND METHOD OF PRODUCING SAME
George E. Martin, New Rochelle, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 10, 1947, Serial No. 779,221
9 Claims. (Cl. 94—23)

1. The method of preparing a road comprising loosening soil along the course of the road to the desired depth, pulverizing the loosened soil, mixing a hard powdered pitch from the group consisting of coal tar pitch and water gas tar pitch, said pitch having a melting point of from 200° to 430° F. and liquid tar having a consistency

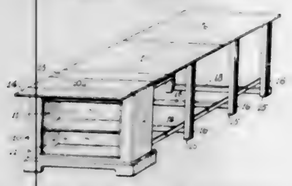
within the range represented by a specific viscosity Engler of about 5 at 40° C. and a float test of 200 seconds at 32° C. with the pulverized soil in the proportions of from 2% to 10% liquid tar based on the weight of the soil and from 10% to 100% powdered pitch based on the weight of the tar and compacting the soil-pitch-tar mixture to provide a stabilized base course.

2,535,645
ORGAN PIPE ASSEMBLY
Charles W. McManis, Kansas City, Kans.
Application December 8, 1947, Serial No. 790,332
6 Claims. (Cl. 84—331)



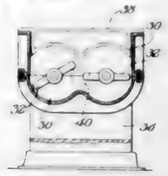
5. An organ pipe assembly comprising a chestblock supported on the windchest of an organ and having a plurality of individual air passages formed therethrough, said air passages each communicating at one end with said windchest and forming at its opposite end a discharge slit for directing a sheet of air outwardly, a tubular resonator mounted on said chestblock above each of said slits, each of said resonators having an open mouth adjacent said slit and a lip adjacent said mouth and parallel to said slit, upon which said sheet of air impinges to produce a tone, flanges turned outwardly from the lower edge of said resonator on a diameter parallel to the plane of said mouth, and screws secured in said chestblock adjacent said flanges, the heads of said screws releasably securing said flanges to said chestblock, thereby permitting the adjustment of said resonator transversely to said slit to secure proper cutting of said sheet of air across said lip.

2,535,646
COMBINATION CABINET AND EXTENSIBLE TABLE
Hyman Medwin, New York, N. Y.
Application November 25, 1947, Serial No. 788,022
4 Claims. (Cl. 311—60)



1. An article of furniture comprising a base unit constituting a case having a planar top and an open back, a rear leaf hinged along the rear edge of said top, a front leaf hinged along the front edge of said top, a plurality of supporting elements normally housed within said case, links pivotally interconnecting said supporting elements and said case to render said supporting elements extensible from and retractible within said case through said open back, each of said supporting elements comprising a pair of legs and an upper transverse connecting member, the outer terminal member of said supporting elements carrying a pair of leaves hinged together along their contiguous upper horizontal edges, said hinged leaves being pivotally and slidably supported on said terminal member and normally depending in vertical position and in face-to-face relation from the top of said terminal supporting element, said pair of leaves being disposable to overlie and to be supported in a horizontal position upon said supporting elements in extended position whereby to form a continuous table top in cooperation with the top and extended front and rear leaves of said base unit.

2,535,647
TREATING CLAY
Nathan Millman and James Brooks Whitley, Macon, Ga., assignors to J. M. Huber Corporation, Locust, N. J., a corporation of New Jersey
Application June 14, 1947, Serial No. 754,726
6 Claims. (Cl. 106—72)

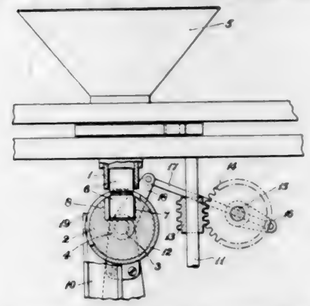


1. The method of treating clay to improve its processing properties which comprises the steps of preparing a mixture of a clay, composed principally of kaolinite, water and a peptizing agent for the clay, in the proportions of from about 115 to about 210 volumes of clay to 100 volumes of water and from about 0.05% to about 1% of peptizing agent based on the weight of the clay, and kneading the mixture at a rate such that the temperature of the mixture rises at a rate of at least 5° C. in 5 minutes and until the temperature of the mixture has been raised at least 5° C.

2,535,648
AUTOMATIC FEED MECHANISM
John Penrose Mills, Wolverhampton, England, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application October 4, 1946, Serial No. 701,232
In Great Britain October 31, 1945
3 Claims. (Cl. 193—43)

1. An automatic feed mechanism for feeding cylindrical articles one at a time comprising a casing having a side opening and a top opening, an oscillating drum mounted in said casing on a horizontal axis and having in its periphery a radial recess open to one side face of the drum and in which an article is received through the top opening in an endwise vertical position, in combination with means for oscillating the drum through ninety degrees to cause the recess to move from an initial vertical receiving position opposite to the top opening to a horizontal discharge position opposite to the side opening and back to the initial position; said oscillating means being such that the drum is temporarily arrested in said receiving and discharge positions, and one side wall of the recess being at such an angle to the axis of the drum that when

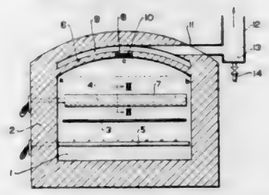
the said drum is in the discharge position it forms the floor of the recess and slopes downwardly towards the lateral opening to allow an article to roll out of the recess through the side opening.



2,535,649
POLYVINYL COMPOSITIONS OF IMPROVED RESISTANCE TO LIGHT AND PROCESS FOR MAKING THE SAME
Antoine Francisque Gaston Mouchiroud, Lyon, France, assignor to Societe "Rhodiaceta," Paris, France, a corporation of France
No Drawing. Application March 27, 1947, Serial No. 737,731. In France May 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 3, 1965
4 Claims. (Cl. 260—45.7)

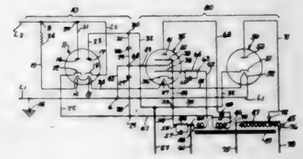
1. Films, filaments, threads, fibres, artificial horse hair, strips, rods, fabrics, varnishes, foils, having a basis of a polyvinylchloride and showing an improved resistance to light, which contain 0.1 to 10 parts per 1000 parts, by weight, of an alkali metal salt of chromic acid.

2,535,650
BAKING OVEN
Theodoor R. Neutelings and Willem Neutelings, Bergen op Zoom, Netherlands, assignors to Industrie-en Handelmaatschappij "De Vuurslag" C. V., Bergen op Zoom, Netherlands, a company of the Netherlands
Application November 16, 1946, Serial No. 710,341
In the Netherlands May 7, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires May 7, 1962
2 Claims. (Cl. 107—55)



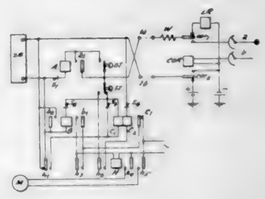
1. A baking oven comprising in combination a baking chamber formed as a generally horizontal tunnel, a conveyor passing through said tunnel in longitudinal direction thereof, a series of gas burners extending in transverse direction within said tunnel above said conveyor and having their outlet holes directed toward the top wall of the tunnel, and trough-like shields disposed at the underside of said burners and having their lateral walls reaching above the plane of the outlet holes of the burners.

2,535,651
HIGH-VOLTAGE METHOD AND SYSTEM
Morris Newman, St. Paul, Minn.
Application May 12, 1945, Serial No. 593,516
2 Claims. (Cl. 321—2)



2. A high voltage relatively low wattage power supply for precipitators, cathode ray oscilloscopes, X-ray machines and the like, adapted to be energized from a relatively low voltage power source, means for providing a direct current supply of intermediate voltage from said low voltage power source, a step-up transformer having a relatively low voltage primary and a high voltage secondary, a grid controlled oscillator tube having its input connected to the direct current supply of intermediate voltage and its output connected to the primary of said transformer, a rectifier connected to the secondary of said transformer, an ionization element connected to the rectifier output and a resistor connected in series with said ionization element and connected to said oscillator tube for varying the degree of oscillation of the tube in accordance with the ionization current flowing through the resistor, said apparatus being further characterized in that said means for providing a direct current of intermediate voltage includes four thermionic cathode-anode valves and four storage condensers.

2,535,652
CIRCUIT ARRANGEMENT FOR A SUBSCRIBER'S SET OF A TELEGRAPH SYSTEM
Roelof M. M. Oberman, The Hague, Netherlands
Application July 30, 1947, Serial No. 767,522
In the Netherlands March 19, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 19, 1963
3 Claims. (Cl. 178—2)



1. A relay arrangement for a subscriber's station in a telegraph system having means for inverting and re-inverting the current in the subscriber's station including a teleprinter, comprising in combination, a relay having contacts controlling the teleprinter; a non-polarized switching-in relay having a normally open contact connected in series with said relay controlling the teleprinter; a first blocking cell connected in series to said switching-in relay for blocking the passage of re-inverted current and allowing the passage of an inverted current; a non-polarized switching-off relay having a normally closed contact connected in series to said normally open contact of said switching-in relay; a normally

open contact controlled by said relay controlling the teleprinter and connected in series with said switching-off relay; a second blocking cell connected in series to said switching-off relay and blocking the passage of the inverted current; and a change-over key connected in inoperative position in series to said switching-in relay and connected in operative position in series to said switching-off relay.

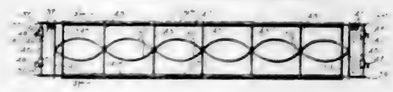
2,535,653
INSIDE BURR REMOVING APPARATUS
Walter S. Schaefer, Euclid, and Thomas M. Bowes, South Euclid, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application January 9, 1946, Serial No. 640,124
1 Claim. (Cl. 90—24)

Apparatus for removing welding burr from the inner surface of a longitudinally welded, tubular, metal article comprising a plug, a plurality of axially spaced rollers in the plug, each projecting beyond one side of the plug to engage the article on both sides of the welded burr, a carriage in the plug between said rollers and pivotally connected at one end to said plug, a roller in said carriage projecting beyond the opposite side of said plug to engage the article opposite said burr, and means for varying the extent of projection of said roller including a bendable spring rod extending longitudinally of said plug with its ends projecting into recesses in the carriage and plug, and adjustable means extending transversely of the plug from the side thereof adjacent to the welding burr and engageable with said bendable rod between its ends for bending the rod and moving the carriage roller outwardly to a predetermined fixed position or permitting the rod to bend and move said roller inwardly.

2,535,654
CONCEALED CASTER UNIT FOR FURNITURE
Max C. Simon, Jamaica, N. Y.
Application February 21, 1948, Serial No. 9,983
3 Claims. (Cl. 16—18)

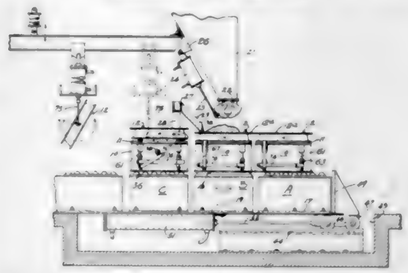
1. A caster unit, comprising an elongated housing open along one side, a pivot pin extended across said housing intermediate of its ends, a socket formed in said housing on one side of said pin and extended away from the open side thereof, a carrier plate of a length slightly less than half the interior length of said housing, said plate having one end pivotally mounted on said pin to be pivoted into said housing on either side of said pivot pin, a caster mounted on one side of said plate to project into said socket when said plate is pivoted into the socketed side of said housing and to extend from said housing when said plate is pivoted into the other side of said housing, and means for releasably retaining said plate in either of its two positions.

2,535,655
DRAPERY AND CURTAIN HANGER
Samuel Sklar, New York, N. Y.
Application August 14, 1948, Serial No. 44,340
7 Claims. (Cl. 211—105.3)



2. A fixture for the purpose described, comprising a plurality of telescopically connected units, one such unit including a horizontally elongate vertically arranged frame including an upper tube, a lower tube and vertically extending spaced elements connected to said tubes, and two other units being alike but of opposite hand, each of the two last-named units being of skeletal wire construction, each incorporating a horizontal rod received in said upper tube, and each also incorporating a horizontal rod received in said lower tube, each of said two last-named units being made of two like bent wire structures, each structure having a V-shaped intermediate portion located one above the other and joined by a plurality of elongate tie elements, and hooks mounted on said upper intermediate portions of said structures.

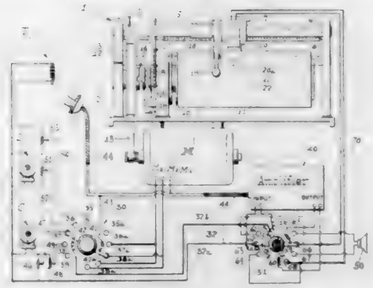
2,535,656
APPARATUS FOR MAKING MOLDS
Richard M. Smith, Tuscaloosa, Ala., assignor of fifty per cent to Leo E. Kiedinger, Birmingham, Ala.
Application February 16, 1948, Serial No. 8,500
3 Claims. (Cl. 22—20)



3. In apparatus for making molds, an initial station embodying a pair of roller beds spaced laterally apart providing an opening therebetween, a second station embodying a jolt table, a third station embodying a roller bed, all of said stations being in side by side relation and in alignment, flask and pattern supporting units movable successively from the initial station onto the jolt table and thence to the last station in contact with each other during movement and supporting the flasks with the top edges thereof as close together as possible without touching, an air cylinder embodying a reciprocable piston rod mounted beneath the jolt table, a pair of tracks, a wheeled carriage on the tracks connected to the piston rod, an upstanding member on the carriage

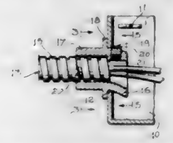
disposed in the opening between the roller beds of the initial station and engageable with the unit occupying the initial station to move it and the units occupying the other stations to succeeding stations, means to fill the flask with sand while on the jolt table, a stationary strike-off member above the jolt table in the form of a trough inclined from its upper end toward the initial station and with the lower end engaging the tops of the flasks as they move thereunder to remove excess sand from the flask on the jolt table and deposit the same in the flask moving onto the jolt table, a roller bed adjacent the third station onto which the units move from the third station responsive to movement of the carriage, and a semi-circular conveyor connecting the last named roller bed and the initial station over which the units are returned to the initial station.

2,535,657
SOUND RECORDING SYSTEM
Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application December 1, 1945, Serial No. 632,183
7 Claims. (Cl. 179—100.4)



1. In a phonograph having record-cooperable sound-recording means and a record medium movable relative to said recording means: the combination of speed-regulable driving means for said record medium operable at slow and relatively fast speeds; a plurality of channels with sounds to be recorded selectively, said channels being operatively connectable to said sound-recording means; means operable to selectively so connect said sound channels; and means connected to said driving means and controlled by said selecting means for regulating said driving means to operate at slow and fast speeds according to which of said sound channels is connected to said sound-recording means.

2,535,658
BX CABLE CONNECTOR
Robert Strom, Queens Village, N. Y.
Application June 23, 1948, Serial No. 34,736
4 Claims. (Cl. 285—6.5)

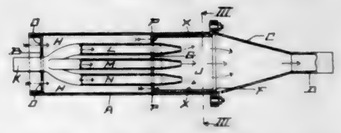


1. A connector for anchoring the end of a BX-type cable in position within the hole of an electrical outlet or terminal box, comprising an inner sleeve portion and an outer sleeve portion separated by an intermediate flange for engaging the material of the box surrounding its hole when the inner sleeve portion is inserted into the hole, said inner sleeve portion being offset downwardly to be inserted into the hole with a turning motion, means at the top of the inner sleeve portion for engaging the material of the box at the top of the hole to secure the inner sleeve portion in position, and means on the outer sleeve portion for anchoring the end of the cable in position within the sleeves, said first-mentioned means comprises a set screw having a beveled top end which is to be tightened against the material of the box at the top of the hole.

2,535,659
AMORPHOUS SILICA AND PROCESS FOR MAKING SAME
Harold I. Wolff, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application April 1, 1947, Serial No. 738,699
11 Claims. (Cl. 23—182)

8. A process for producing amorphous silica in the form of small hollow globes, comprising the steps of heating siliceous material together with carboniferous material at a temperature between about 2800° F. and 4200° F., removing reduced siliceous material vaporized from the heated mixture by continuously sweeping the mixture with an inert atmosphere consisting predominantly of hydrogen, oxidizing the reduced siliceous material while mixed in said inert atmosphere to form silica, and immediately rapidly cooling the silica to a temperature below about 2000° F.

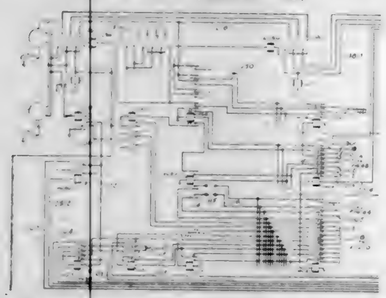
2,535,660
AIR-COOLED SILENCER WITH PLURAL PASSAGES
Ernest Wynn, Thornton, Bradford, England
Application October 16, 1947, Serial No. 780,112
In Great Britain October 24, 1946
1 Claim. (Cl. 181—43)



An exhaust silencer for internal-combustion engines, comprising a cylindrical casing having an axially arranged inlet pipe at one end and a similarly arranged outlet pipe at the opposite end, an intervening partition member disposed

within said casing and dividing it into a cooling chamber and a spent gas chamber, the latter chamber being lined with heat-resisting material, a plurality of exhaust-gas distributing pipes within the cooling chamber, the inlet ends of said pipes merging into a single pipe in communication with the aforesaid inlet pipe and the outlet ends of said distributing pipes communicating with the spent gas chamber, said casing and partition member being provided with openings for permitting the passage of air from the cooling chamber to the spent gas chamber.

2,535,661
CONTROL CIRCUITS
Armand O. Adam, Jr., Maplewood, N. J., and Robert C. Avery, Jackson Heights, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1948, Serial No. 57,383
19 Claims. (Cl. 179—18)



1. In a telephone system, a calling line, a series of switches, a plurality of originating digit registers, a switch-controlling marker, means responsive to the initiation of a call by said calling line to associate said marker with said line, means responsive to said association to set up in said marker a registration of the indentity of said line, means in said marker responsive to said association to select an idle originating register and to transfer said registration to said selected register, means in said marker responsive to said registration to control said switches to connect said line with said register, and means thereupon effective to release said marker.

2,535,662
MOLD FOR CASTING METALS
Robert D. Ahles, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 10, 1948, Serial No. 14,161
2 Claims. (Cl. 22—188)

1. A mold composition consisting of a mixture of zirconite flour and linseed oil in the proportion of from 0.4 to 0.5 quart linseed oil for each 15 pounds zirconite flour, said flour being of a particle size such that at least 98 percent thereof will pass through a 325 mesh screen.

2,535,663
MATRIX GUIDE
Monroe D. Almquist, Monmouth, Ill.
Application December 31, 1946, Serial No. 719,416
1 Claim. (Cl. 199—26)

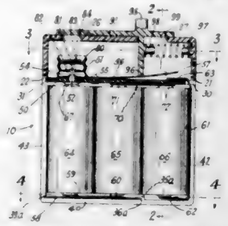
In a Linotype machine having an assembly elevator gate, a matrix guide therefor for guiding matrices into the gate comprising a substantially L-shaped member having an attaching plate portion and an angular plate portion, an elongated slot in said attaching plate portion, a screw in said slot and adapted to threadedly engage the gate whereby said attaching plate may be adjustably secured to the same, said angular plate portion lying in a plane intersecting

the plane of said attaching plate portion along a line forming an acute angle with the longitudinal axis of said slot, said angular plate having a free end lying in a plane extending at an angle to the plane of said attaching plate portion, whereby an inclined guiding surface extends at an angle to the path of movement of the matrices into the gate.

2,535,664
PLASTICIZING SYNTHETIC RUBBER
David J. Beaver, St. Albans, and Monte C. Throdahl, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 9, 1945, Serial No. 609,924
10 Claims. (Cl. 260—30.4)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3 hydrocarbon and, as a plasticizer therefor, an alkyl gamma lactone in the proportion within the range of 1–100 parts by weight per 100 parts by weight of synthetic rubber.

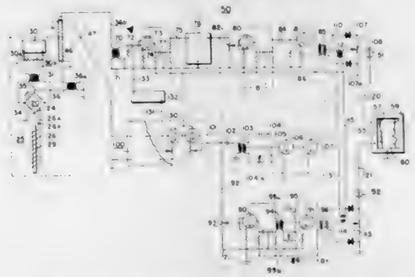
2,535,665
BATTERY OPERATED CIGARETTE LIGHTER
Irving Boyarsky and Irving E. Melnick, New York, N. Y.
Application January 12, 1949, Serial No. 70,522
10 Claims. (Cl. 219—32)



9. In combination, a casing having a top wall, a slider slidable on the top wall, said top wall of said casing being formed with an opening and with a slot, an insulating plate removably mounted within said casing, a heating element on said insulating plate and spaced below said opening in said top wall, dry cells within said casing and below said plate, means to connect the dry cells in circuit with said heating element, including a normally open switch contact in said circuit, said slider normally covering the opening in the casing and means on the slider projecting through said slot to close said switch contact upon movement of said slider from a position covering

said opening to a position uncovering said opening, whereby the heating element is exposed and the circuit therefor simultaneously closed.

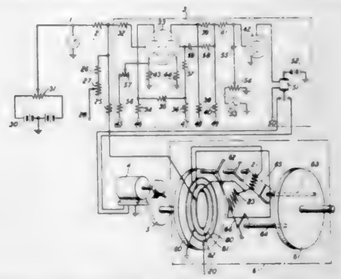
2,535,666
ELECTRICAL LOGGING SYSTEM
Robert A. Broding, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application January 24, 1949, Serial No. 72,451
18 Claims. (Cl. 175—182)



1. A system for measuring changes in the electrical character of formations penetrated by a bore hole which comprises an exploring unit movable along the bore hole and including as a component part thereof an alternating current bridge network having an elongated inductance forming one arm of said network and disposed lengthwise of said bore hole for producing an electromagnetic field in the strata adjacent thereto, said bridge having circuit-connections for application thereto of alternating current input signals and output connections, means for establishing balanced conditions in said bridge network with said exploring unit in a predetermined position, means for moving said exploring unit in said bore hole past said formations to unbalance said bridge in accordance with variations in the electrical properties of said formations for production of signals, and measuring means including a detecting circuit having branches respectively connected to said circuit-connections and to said output connections in which the signals applied thereto are opposed, said measuring means including an element movable in accordance with the algebraic difference between said signals to indicate an electrical characteristic of said formations.

2,535,667
TORQUE CONTROLLING MECHANISM
Michael J. Burger, Murray Hill, and George F. Clement, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 10, 1949, Serial No. 126,574
7 Claims. (Cl. 318—432)

7. A torque-producing apparatus including a motor having a shaft, a source of control voltage, a high gain amplifier having an input circuit connected to said source and an output circuit controlling said motor, a load, opposed crank arms respectively connected to said shaft and said load supporting overlapping crank pins rotatably secured to the crank arms and having projecting portions eccentrically located with respect to the remainders of the pins, links having end sections perforated to fit over a pair of overlapping crank pins and webs connecting the end sections, prestrained by rotation of the crank pins, resistance strain gauges secured to both sides of the webs, a second source of voltage con-



nected to said gauges, and means connecting said gauges to the input circuit of said amplifier to oppose the voltage from said gauges to said control voltage.

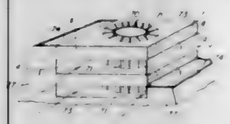
2,535,668
SPEED CHANGER V-BELT PULLEY
Russell H. Carmean, Chillicothe, Ohio
Application January 18, 1946, Serial No. 641,982
1 Claim. (Cl. 74—230.17)

A device of the character described, comprising half V-pulleys, sleeves formed on said pulleys, telescoping bushings mounted in said sleeves, said sleeves being welded to their respective bushings, one of said sleeves and its corresponding bushing having tapped alined bores therein, a bolt in said bores to fix said sleeve and said bushing to a shaft, a key in one of said bushings, a complementary keyway in the other of said bushings, said key and keyway engaging to cause the fixed bushing and sleeve to rotate the opposite bushing and sleeve, one of said half pulleys having a seat therein, a roller bearing of greater width than said seat positioned therein and a shoulder on the other half pulley adapted to contact said bearing.

2,535,669
ELECTRIC DISCHARGE TUBE AND MEANS FOR COOLING THE ANODE THEREOF
Pieter Hajo Clay, deceased, late of Eindhoven, Netherlands, by Joris Daniel Heijligers, administrator, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 21, 1946, Serial No. 704,691
In the Netherlands August 7, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 7, 1965
2 Claims. (Cl. 250—27.5)

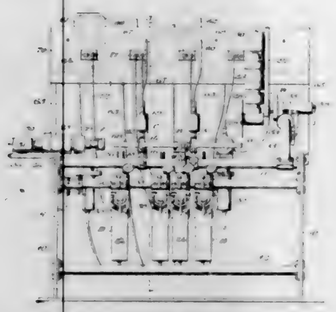
1. An electric discharge tube having a cylindrical cooled anode wall and means for cooling the anode by heat exchange with an external cooling medium, said means including a plurality of parallel cooling elements secured in heat ex-

change relationship to the wall and extending in the direction of the main axis of the cylindrical wall to form longitudinal passageways between adjacent elements, means forming a plurality of chambers along the lengths of said parallel elements, said means comprising a plurality of rectangular plate-shaped members which extend normally to said axis, each of said chambers being open to said passageways between said plates, alternate chambers each having a



pair of cooling medium inlets at opposite ends thereof, the remaining chambers each having a pair of cooling medium outlets at opposite ends thereof, the cooling medium inlets being aligned along a plane parallel to said axis, the cooling medium outlets being aligned along another plane parallel to said axis, said first plane being at right angles to said second plane, and a pair of ducts, each of said ducts being located at one of said opposite ends of said remaining chambers, and being connected to said outlets.

2,535,670
MULTIPLE BORING MACHINE
John J. Croft, Sr., Siler City, N. C., assignor to High Point Bending & Chair Company, Siler City, N. C., a corporation of North Carolina
Application February 3, 1947, Serial No. 726,013
5 Claims. (Cl. 144—112)

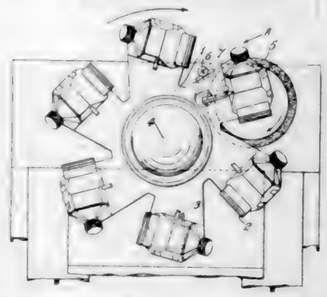


3. A machine of the character described comprising a frame including a supporting bar, work fastening means, a bracket mounted on said supporting bar for adjustments longitudinally and rotatively relative thereto, said bracket including a housing extending at right angles to said supporting bar, a guide element, an arm rigid with said guide element and mounted in said housing for adjustments longitudinally and rotatively relative thereto, a gear wheel on said arm and keyed thereto and mounted for rotation but non-longitudinal movement relative to said bracket, a second gear wheel carried by said bracket and meshing with said first mentioned gear wheel for rotatively adjusting said arm and guide member relative to said bracket, a motor mounted on said guide element for projection and retraction relative thereto, and a tool driven by said motor for operation upon a piece of work fastened by said work fastening means.

2,535,671
HOLDER FOR TOOTHPASTE OR THE LIKE
Barney Cutler, New Haven, Conn.
Application December 12, 1945, Serial No. 634,468
1 Claim. (Cl. 222—105)

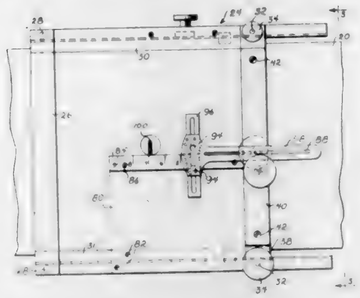
A container for a collapsible tube having a projecting neck through which is discharged the material contained in the tube, said container comprising a tubular body portion of relatively soft elastic material having an integrally formed depending reduced portion at one end snugly receiving the neck of the collapsible tube, the wall of said reduced portion being thickened as compared with the body portion, and said reduced portion having a self-closed opening therein to permit expulsion of the contents of the tube under pressure and to seal the container when the pressure is relieved, said container having a flattened area extending from the reduced portion to the open end thereof to enable the container to lie flatly against a backing surface, the other end of the container being open for the reception of the tube therein, the neck of the tube fitting snugly in the depending reduced portion of the container and means for securing the container to a substantially vertical surface in a pendent position.

2,535,672
ROTARY TOBACCO CUTTING MACHINE
George Dearsley, London, England, assignor to Molins Machine Company Limited, London, England
Application May 29, 1946, Serial No. 672,959
In Great Britain June 4, 1945
1 Claim. (Cl. 146—110)



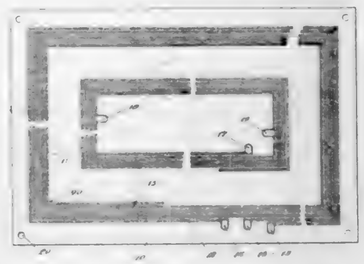
In a tobacco cutting machine, a rotatable cutterhead having a plurality of outwardly directed arms, a cutting blade mounted on each of said arms, each blade having a cutting edge extending substantially radially of the axis of the cutterhead, and being of substantial width, a mouthpiece for tobacco disposed in contiguous relation to the path of movement of said cutting blades, means operably connected to the cutterhead to rotate the cutterhead continuously so as to cause each cutting blade to sweep past the mouthpiece and cut tobacco once on each revolution of the cutterhead, a grinding wheel, means supporting said grinding wheel for rotation on a fixed axis substantially parallel to the axis of rotation of said cutterhead, and for axial displacement on said fixed axis, said grinding wheel having an annular grinding face defining a plane perpendicular to the axis of rotation of the grinding wheel and in contiguous relation to the path of movement of said cutting blades, whereby each blade is engaged and sharpened by said wheel once on each revolution of the cutterhead during operation of the machine to cut tobacco, and after each cutting operation, means operatively connected to said grinding wheel to rotate said grinding wheel on its axis of rotation, speed reduction gearing operatively connecting the supporting means for said grinding wheel with the means for rotating the cutterhead to slowly and continuously advance said wheel in timed relation with the rotation of said cutterhead toward the path swept out by the cutting edges of said cutting blades, and a pointed trimming tool mounted on one of said arms and so positioned that the point thereof engages with and sweeps across the grinding face of the grinding wheel on each rotation of the cutterhead and after each sharpening operation performed on the said cutting blades.

2,535,673
CURVE-CUTTING BAND-SAW ATTACHMENT
Charles O. Forbes, Bremerton, Wash.
Application June 6, 1946, Serial No. 674,731
3 Claims. (Cl. 143—171)



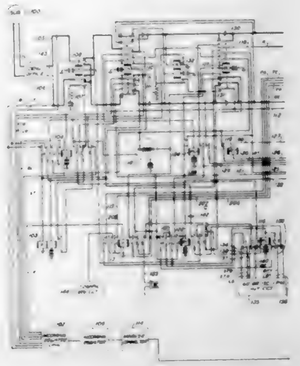
1. An attachment of the character described, comprising a frame adapted to be mounted on the saw table of a band saw, means for fastening said frame to the saw table, said frame comprising a portable tie bar normally lying across the saw table, a pair of parallel disposed angle arms each contacting the edge of the saw table and each arm being secured at one end to one of the opposite ends of the tie bar, stud bolts on the opposite ends of said arms, a first bar mounted on said stud bolts in parallel relation to said tie bar, a second bar mounted on said bolts above said first bar and said first bar carrying the means for fastening said frame to said saw table, an arm pivotally supported on said first bar and means for adjusting said arm to position a piece of work secured thereto with relation to the band saw.

2,535,674
DIE FOR CUTTING ELECTRICAL UNITS
Albert W. Franklin, New York, N. Y.
Application May 11, 1946, Serial No. 669,197
8 Claims. (Cl. 164—29)



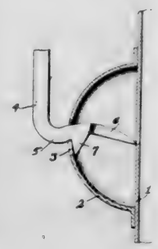
1. A metal cutting die comprising a base plate having a multi-part die member secured on one face thereof, said die member parts meeting on diagonal lines in pairs and having grooved faces to form spaced cutting edges, the cutting edges of said parts being related to form a continuous cutting edge from end to end.

2,535,675
RINGING CONTROL CIRCUIT
Myron C. Goddard, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1948, Serial No. 57,386
9 Claims. (Cl. 179—18)



1. In a telephone system, a trunk circuit, a common control means for controlling the establishment of a telephone connection including said trunk circuit, a cross bar switch comprising a plurality of cross-point contact sets, a plurality of sources of ringing current connected to said contact sets, means under the control of said common control means to prepare a plurality of said contact sets to select one of said sources of ringing current, and means under the joint control of said common control means and said trunk circuit to close said prepared contact sets to connect said selected source of ringing current to said trunk circuit.

2,535,676
BAIL FOR CANS
Thomas J. Gorman, Jr., Newark, N. J.
Application September 29, 1947, Serial No. 776,722
1 Claim. (Cl. 220—95)



In a device of the character described, in combination, a can, ears having apertures therein diametrically opposed and extending outwardly on said can, and a bail, having inwardly projecting end portions extending through said apertures into said ears, said end portions comprising elongated fingers terminating in sharp points at their inner extremities and having downwardly extending V-shaped spurs formed thereon at a point adjacent said apertures, the distance from each sharp point to the remote side of the respective spur being slightly greater than the distance of the open portion of each ear from the can, whereby upon lifting said can by said bail said spurs act as fulcrums against said outwardly extending ears causing the points of said fingers to bite into said can.

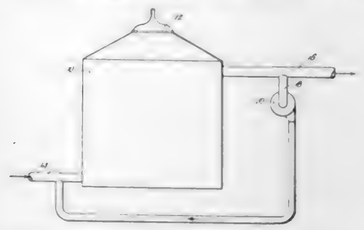
2,535,677
METHOD FOR THE PREPARATION OF ETHER SULFONATES
Charles S. Hollander, Philadelphia, and Louis H. Bock, Huntingdon Valley, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 15, 1947, Serial No. 728,957
5 Claims. (Cl. 260—513)

1. A process for preparing dodecyloxyethane sodium sulfonate which comprises reacting by heating together dodecyl alcohol and sodium isethionate in the presence of sodium hydroxide as a catalyst at about 200° C. with removal of water formed during the reaction.

2,535,678
METHOD FOR THE PREPARATION OF ETHERS OF HYDROXYETHANE SULFONATES AND ETHER ALCOHOLS
Charles S. Hollander, Philadelphia, and Louis H. Bock, Huntingdon Valley, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 15, 1947, Serial No. 728,958
4 Claims. (Cl. 260—512)

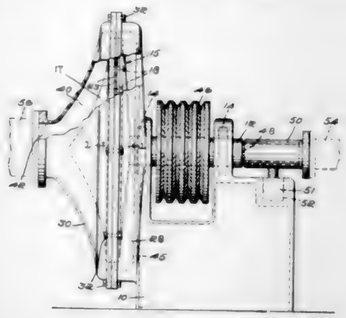
1. The process for preparing diisobutylphenoxyethoxy-ethoxyethane sodium sulfonate which comprises reacting by heating together sodium isethionate and diisobutylphenoxyethoxyethanol at a temperature between 155° C. and 260° C. in the presence of sodium hydroxide as a catalyst with removal of water formed during the reaction.

2,535,679
PROCESS OF AGGLOMERATING AEROSOLS
Caperton B. Horsley, Stamford, Conn., and Gordon C. Seavey, Arlington, Mass., assignors to Ultrasonic Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 12, 1946, Serial No. 696,628
1 Claim. (Cl. 183—114)



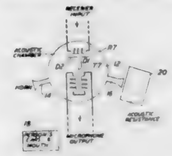
A process of agglomerating an aerosol, comprising passing the aerosol continuously through a chamber, subjecting the chamber and the aerosol to sound waves, withdrawing agglomerated particles from the aerosol as the treatment proceeds and continuously recirculating some of the agglomerated particles through the chamber together with untreated aerosol in order to increase the collision expectancy of the particles of the aerosol.

2,535,680
METHOD AND APPARATUS FOR GENERATING SOUND WAVES
Caperton B. Horsley, Stamford, Conn., and Richard E. Young, Buffalo, N. Y., assignors to Ultrasonic Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 15, 1947, Serial No. 722,240
7 Claims. (Cl. 116—137)



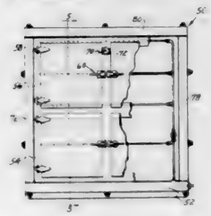
3. An apparatus for generating sound waves, comprising a hollow member mounted for rotation about a fixed axis, means associated with said member to provide a series of jet openings from said member adjacent the periphery thereof, all of said series of jet openings being substantially spaced from said axis and equidistant therefrom, an annular stator disposed about the periphery of said member and provided with a series of ports disposed closely opposite said jet openings, and walls forming a pair of separate and distinct exit passages, each passage serving one half of the series of ports but in alternation and itself being alternately closed and opened in opposite phase to the other passage, the disposition of said jet openings and ports being such that the flow of fluid from the member is deflected alternately through said passages without interruption of the flow through the jet openings.

2,535,681
ELECTROACOUSTIC SYSTEM AND MEANS
Kenneth S. Johnson, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application August 7, 1946, Serial No. 688,906. Divided and this application May 6, 1949, Serial No. 91,762
7 Claims. (Cl. 179—1)



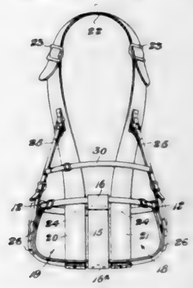
1. An electroacoustic tranducer system comprising a hollow structure containing a pair of electroacoustic transducers, one of said transducers for converting sound wave energy into electric current substantially corresponding to the sound waves and the other for converting audio frequency current into sound wave energy substantially corresponding to such audio current, each of said transducers including a diaphragm, said diaphragms being spaced apart and said structure defining substantially equal-length paths to the opposite surfaces of the diaphragm of said one transducer for sound wave energy that may be generated by said other transducer, said structure including a pair of acoustic paths, one of said paths constituting a passage to the outside of said structure for sound waves originating in said other transducer and a passage to said one transducer for sound waves that may be generated outside of the structure, the second path simulating the impedance of the first path.

2,535,682
PREFABRICATED REFRIGERATOR CONSTRUCTION
Frederick M. Jones, Minneapolis, Minn., assignor, by mesne assignments, to U. S. Thermo Control Co., Minneapolis, Minn., a corporation of Minnesota
Application January 2, 1947, Serial No. 719,822
9 Claims. (Cl. 62—89)



1. A refrigerator assembly comprising in combination, a plurality of independent metal clad wall members having co-operating portions formed of material having a low thermal transfer capacity, means for insulatingly securing each of said wall members consecutively in engagement with another wall member in such a manner that they collectively form a sealed enclosure, a plurality of heat exchanging shelf members supported on said walls within said enclosure, and means carried by one of said wall members for connecting said heat exchanging shelf members with a source of fluid refrigerant, said several members each being constructed as an independent unitary element for knock-down assembly with the remainder of said members.

2,535,683
BABY CARRIER
Walter S. Kimball, Fort Warren, Wyo.
Application April 22, 1947, Serial No. 743,029
2 Claims. (Cl. 224—6)



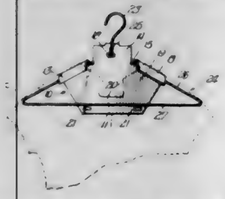
2. A baby carrier comprising a wide transverse seat strap, a main supporting strap adapted to extend over the shoulders of a carrier person, having wide buttock supporting portions at its lower ends secured to the rear of said seat strap, lifting straps extending from the upper portions of said main strap forwardly to the ends of said seat strap, said lifting straps having extensions secured along the front edges of the ends of the seat strap and being of a length to tilt the front edge of the seat strap forwardly whereby the body of a child carried by said carrier is tilted rearwardly so that its back rests against the body of the carrier person, said carrier including a waist strap connecting the ends of the seat strap, and a saddle strap connected at one end to the center of the front portion of said waist strap and at its other to the center of the seat strap and providing leg openings between the saddle strap and the seat strap for a child seated in said carrier and facing forwardly from the carrier person, the buttock supporting portions of the main strap being connected to the waist strap at the rear portion thereof.

2,535,684
RECOVERY OF PROTEIN FROM KERATINOUS MATERIALS
Ernest C. Koerner, Wood Ridge, N. J.
No Drawing. Application February 26, 1949, Serial No. 78,663
11 Claims. (Cl. 260—123.7)

1. In the recovery of protein from keratinous materials the improvement which comprises subjecting a keratinous material, acid pre-treated for Na_2S cystine reduction, to the action of an aqueous solution, containing per dry weight of keratinous material present about 3–5% Na_2S and about 3–6% $Na_2S_2O_4$, at a pH of about 9 to 10 and at a temperature of less than 60° C., the amount of aqueous medium being sufficient to substantially cover the keratinous material present and the combined Na_2S—$Na_2S_2O_4$ concentration in said medium being sufficient for cystine reduction of said keratinous material, maintaining the reaction mass at said pH and at said tem-

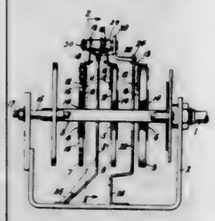
perature until the keratinous material is substantially dissolved and recovering protein from said solution.

2,535,685
GARMENT HANGER SHIELD
William R. Kohl, Glenview, and Arden L. Iverson, Chicago, Ill., assignors to Para-Lux Products Company, Chicago, Ill., a corporation of Illinois
Application December 20, 1946, Serial No. 717,426
4 Claims. (Cl. 223—88)



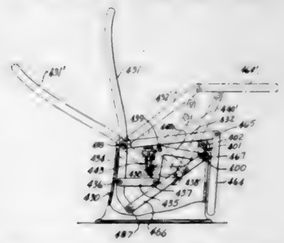
1. A garment supporting shield of the type described, comprising a flexible body portion of substantial depth and of width exceeding said depth, a central, garment centering neck portion of substantial width integral with and extending from said body portion, and a pair of laterally divergent wings integral with and connected to said body portion along angularly disposed lines, said wings being laterally divergent from the body portion and spaced from said neck portion by inwardly directed, acutely angled notches, said wings being provided with spaced scores on one surface thereof and said neck portion having an aperture therein adapted to embrace the shank of a garment hanger to support the shield thereon, with said wings flexed along said scores and overhanging the arms of the hanger, said wings terminating in outer margins which substantially parallel the respective lines of connection of the wings to the body portion and are capable of flexing freely relative to said body portion.

2,535,686
HIGH-FREQUENCY COIL ARRANGEMENT
Benjamin J. Lawrence, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application December 31, 1946, Serial No. 719,353
7 Claims. (Cl. 250—16)



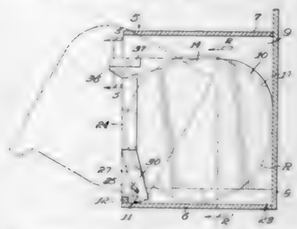
1. The combination, in a television receiver, of a support, a plurality of parallel insulating disks attached thereto, a plurality of contacts mounted radially on each of said disks, a movable contact associated with each of said disks and selectively connectable to said radial contacts, a plurality of stationary coil assemblies arranged around the circumference of said disks and extending transversely therebetween, each of said assemblies comprising a plurality of spaced coaxially aligned coils supported in fixed inductive relation, each of said coils having one of its terminals connected to a radial contact of one of said disks, respective metallic shield plates attached to said support and positioned between each pair of said disks, said coils being supported by said plates and located at radial points lying outside the peripheries of said plates and having their other terminals connected thereto.

2,535,687
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application February 15, 1946, Serial No. 647,690
16 Claims. (Cl. 155—106)



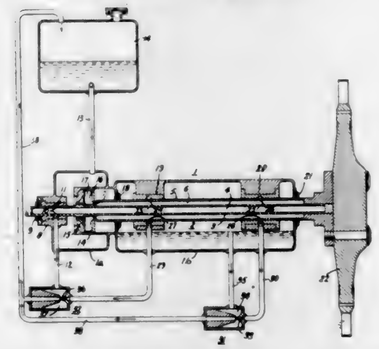
1. A reclining article of furniture, comprising: a support, a back-rest pivotally mounted on said support, said back-rest having a downward extension, a seat, the rear portion of said seat being swingably mounted on said support, a controlling member, said controlling member being swingably mounted on said support at a point spaced from the pivotal connection between the back-rest and the support, a connecting link, said connecting link being pivoted at its rear end to said extension of the back-rest below the pivotal connection between the back-rest and the support and being pivoted at its front portion to said controlling member, said controlling member having a forward extension, and means positioned between the forward extension of said controlling member and said seat to effect movement of said seat in coordination with said controlling member.

2,535,688
FILING AND INDEXING SYSTEM FOR PHONOGRAPH RECORDS
Alexander C. Lowther, Alexandria, La.
Application February 24, 1949, Serial No. 78,141
2 Claims. (Cl. 312—13)



1. In combination, a cabinet, a fulcrum rod supported by said cabinet, an envelope for phonograph records rockably mounted on said rod, said rod being arranged adjacent the forward lower edge of said envelope, said envelope comprising a blank having complementary winged portions adapted to be folded on a central fold line, at least two of the opposed corners of said envelope being cut away to provide angular corner portions, tabs along the side and bottom edges of one of said wing portions for being adhesively sewed to the corresponding portions of the other wing in overlapping relation therewith, said envelope being provided with an inwardly and downwardly directed slot opening inward from the forward edge of said envelope in the area of one of the tabs, and an indexing extension on the upper forward edge of said envelope for receiving record identifying indicia.

2,535,689
LUBRICATING ARRANGEMENT FOR HIGH-SPEED SHAFTS
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 27, 1948, Serial No. 29,455
6 Claims. (Cl. 184—6)



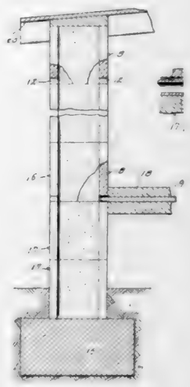
1. In a lubrication system for a high-speed shaft, the combination of two coaxial quill shafts, the inner one having a central bore and the outer one spaced from the inner to form an annular passage, a sealed bearing housing, bearing means in the housing supporting the outer quill shaft, a lubricant reservoir above the level of the bearing means, conduit means connecting the reservoir with a first portion of the housing whereby lubricant flows by gravity to said housing portion, first jet pump means with a suction conduit for removing liquid from a second portion of the housing and a discharge conduit for returning it to the reservoir, second jet pump means with a suction conduit for removing air and foam from said central bore, centrifugal pump means including a rotor connected to the quill shafts for rotation therewith and having an inlet receiving oil and foam from said first housing portion, and walls defining passages for admitting oil and foam from the rotor to said annular passage, the outer shaft having radial passages for supplying foam-free liquid under pressure from the annular passage for lubricating the bearing means, and conduit means for supplying liquid from the annular passage to the jet inlets of said jet pumps.

2,535,690
FIBROUS DIELECTRIC COMPOSITIONS
Harry F. Miller and Ralph G. Flowers, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application August 2, 1947, Serial No. 765,798
8 Claims. (Cl. 117—154)

1. A material comprising the fibrous product of reaction of a lignocellulose pulp with acrylonitrile in an aqueous alkali metal hydroxide medium, said fibrous material having a nitrogen content of from about 0.3 percent to about 2.8 percent.

5. A dielectric sheet material comprising the fibrous reaction product of a lignocellulose pulp and acrylonitrile in an aqueous alkali metal hydroxide medium, said fibrous material having a nitrogen content of from about 0.3 percent to about 2.8 percent and a dielectric composition comprising a halogenated hydrocarbon

2,535,691
VENTILATED WALL AND FLOOR
Mark Miller, Jacksonville, Fla.
Application October 11, 1946, Serial No. 702,805
1 Claim. (Cl. 72—1)

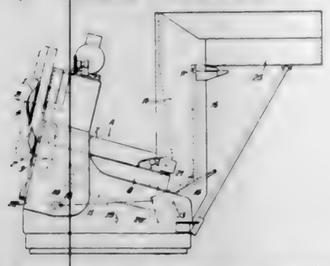


A building wall and floor construction comprising a wall formed of a plurality of courses of blocks each course including a plurality of blocks each having extensions at each end of the inner and outer faces thereof, the extensions of the adjacent blocks of the same course abutting, vertical passages formed in the wall by said extensions and end portions of the blocks, located between said extensions, certain of the abutting, complementary extensions having beveled corners, lateral passages, formed by said beveled corners, communicating with the vertical passages, a floor having an edge overlapping and abutting two of the courses of blocks, and air passages in the floor having ends opening outwardly of said edge and registering with said lateral passages.

2,535,692
ROTARY KNIFE TOBACCO CUTTING MACHINE

Desmond Walter Molins, Felix Frederic Ruau, and George Dearsley, London, England, assignors to Molins Machine Company Limited, London, England

Application January 29, 1946, Serial No. 644,133
In Great Britain January 31, 1945
3 Claims. (Cl. 146—110)



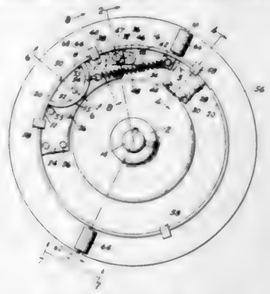
1. A tobacco-cutting machine, comprising, in combination, a conveyor system to feed a mass of tobacco leaves forwardly as a stream while condensing the mass by lateral compression to form a compact "cheese," a mouthpiece toward which the said stream is fed and through which the stream passes as a "cheese," and a rotatable knife-head having a cutting blade arranged to move bodily across the mouthpiece in the general direction of the horizontal width of the stream so as to cut the "cheese," said knife-head being supported for rotation on an axis generally parallel to the direction in which the stream is fed and spaced vertically from said mouthpiece, said conveyor system comprising a bottom endless-band conveyor to support the stream and movable toward the mouthpiece, means providing an upper surface substantially parallel with the said bottom conveyor, said bottom conveyor extending beyond said upper surface at the inlet end, whereby the depth of the stream is kept substantially constant, and a pair of opposed lateral endless-band conveyors movable toward the mouthpiece and converging in their direction of movement, said endless-band conveyors forming with said upper surface a converging compression chamber having an inlet end of a width, measured horizontally, at least several times greater than the depth thereof, and a discharge end dimensioned to conform substantially to the dimensions of said mouthpiece, and of a width not substantially different from the depth thereof, the construction thus being such that practically the whole of the compression of the tobacco leaves into the "cheese" is effected by the convergence of the lateral conveyor bands so that the resulting "cheese" formed thereby is vertically stratified.

2,535,693
COLLAPSIBLE REEL

John M. Murray, Waterbury, Conn., assignor to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut

Application September 8, 1945, Serial No. 615,147
16 Claims. (Cl. 242—72)

1. The combination in a winding reel, of a rotatable supporting disc, a relatively narrow normally cylindrical barrel having a transverse separable joint therein and having a portion rigidly attached at one edge to the disc throughout a substantial arc adjacent the joint, the remaining portion of the barrel being integral throughout and integral with one end of the attached portion and flexibly movable inward from its normal cylindrical position progressively from the attached portion thereof to the said joint, and means supported entirely on the disc with all parts thereof

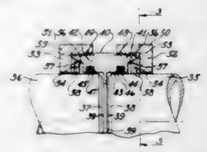


substantially spaced from the axis of rotation and normally serving to hold the flexible portion of the barrel in its expanded cylindrical position for the winding of a coil thereon, the said means being releasable to enable the flexible portion to flex inward to facilitate removal of the coil.

2,535,694
SELF-SEALING COUPLING

Frank E. Payne, Glencoe, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois

Application July 6, 1946, Serial No. 681,674
3 Claims. (Cl. 285—193)



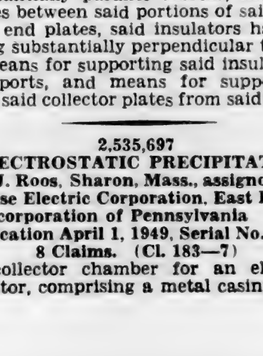
1. A coupling for connecting pipe sections together, said coupling comprising a central section adapted to telescope over adjacent pipe ends, resilient deformable means positioned between the central section and pipe ends to form a fluid-tight seal therebetween, and means for preventing relative axial movement between the coupling and pipe ends, said means comprising a plurality of segmental grippers spaced about the periphery of the pipe ends, said grippers and central section having cooperating wedge surfaces for forcing the grippers radially inward when the grippers are advanced toward the central section, means on the central section for limiting relative circumferential movement between the grippers and central section, and means for advancing the grippers toward the central section, whereby to cause the grippers to engage and hold the pipe ends in the coupling.

2,535,695
MOTOR PUMP UNIT

Albert R. Pezzillo, Jr., Philadelphia, Pa.

Application June 7, 1950, Serial No. 166,595
6 Claims. (Cl. 103—87)

1. In a motor pump unit, a sectional housing having an intake section with an inlet and a discharge section with an outlet, said intake section having at the end remote from the inlet a centrally located tubular extension with a Venturi shaped passage through it and communicating by a passage with the inlet, a rotor in telescopic relationship with said extension and revoluble on it, said discharge section having an annular chamber open at one end having diffuser passages leading from the chamber to the outlet, the open end of the chamber being located

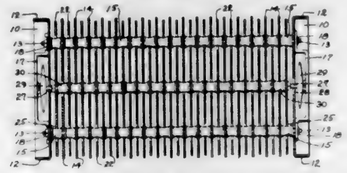


in juxtaposition to the tubular extension of the intake section an impeller in said chamber, fixed to the rotor and having impeller passages leading from the Venturi shaped passages to pass fluid to the diffuser passages, a stator within the housing concentric with the rotor, and means to seal the stator from the fluid being impelled.

2,535,696
ELECTROSTATIC PRECIPITATOR

Earl L. Richardson, Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 28, 1947, Serial No. 757,785
9 Claims. (Cl. 183—7)



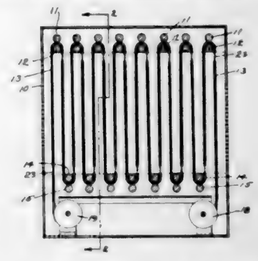
1. A collector cell for an electrostatic precipitator comprising a plurality of spaced, parallel, collector plates, structural end plates for said cell extending substantially parallel to said plates, means for supporting alternate of said collector plates from said end plates, insulator supports attached to said end plates, said supports having portions spaced from said end plates and extending substantially parallel thereto, insulators in the spaces between said portions of said supports and said end plates, said insulators having axes extending substantially perpendicular to said end plates, means for supporting said insulators from said supports, and means for supporting the others of said collector plates from said insulators.

2,535,697
ELECTROSTATIC PRECIPITATOR

William J. Roos, Sharon, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 1, 1949, Serial No. 84,776
8 Claims. (Cl. 183—7)

1. A collector chamber for an electrostatic precipitator, comprising a metal casing having a plurality of spaced, electrically conductive rollers therein at the opposite sides thereof, means grounding the rollers at one side of said casing thereto, means insulatedly supporting the rollers at the other side of the casing therefrom, a sheet

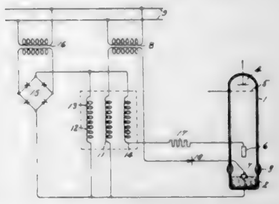


threaded over said rollers in a plurality of passes and forming a plurality of spaced electrically conductive, collector electrodes, adjacent of said electrodes being insulated from each other, and means for applying an electrical charge to said insulatedly supported rollers.

2,535,698
ELECTRIC VALVE EXCITATION CIRCUIT

August Schmidt, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 28, 1949, Serial No. 135,352
1 Claim. (Cl. 315—274)



In combination, an electric discharge device of the type employing an enclosing envelope and comprising therein an ionizable medium, a cathode, an ignitor, and a holding anode, an energizing circuit connected to said ignitor for causing the emission of electrons by said cathode, saturable impedance means connected in said circuit, means including a source of direct current for energizing said holding anode, a magnetizing winding energized with direct current and effective to saturate said impedance means, and a control winding the energization of which is dependent upon the flow of current from said holding anode to said cathode for opposing the magnetizing effect of said magnetizing winding.

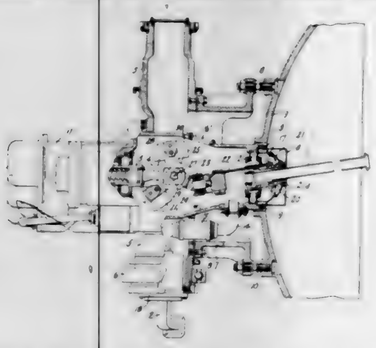
2,535,699
ROTATING ANTENNA

Frank A. Schnell, Scotia, and Ernest L. Thearle, Rexford, N. Y., assignors to General Electric Company, a corporation of New York

Application December 16, 1947, Serial No. 791,976
5 Claims. (Cl. 250—33.65)

5. In a radio directive antenna system of the type having a pivoted antenna, means for imparting a conical motion to the antenna and for varying the conical angle of the cone of motion described by the antenna, comprising a rotatable shaft member, a reciprocating shaft member

mounted within said rotatable shaft member and concentric thereto, linkage means mounted on said rotatable shaft member and rotated thereby about the axis of said rotatable shaft member, said linkage means including a plurality of weight members having lever arms associated therewith and a supporting shaft member having its axis normal to the axis of said rotatable shaft member, means for coupling said linkage means



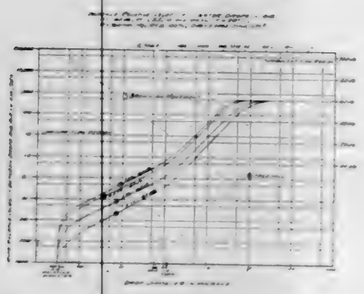
to the pivoted antenna to impart said conical motion thereto, and means including said reciprocating shaft member for imparting rotating motion to said supporting shaft member about its axis thereby to vary the conical angle of the cone of motion described by the antenna, said weight members and said antenna being so arranged that the combined moments thereof about the axes of said rotatable shaft member and said supporting shaft member are substantially zero.

2,535,700

PROCESS OF AGGLOMERATING AND RECOVERING AEROSOL PARTICLES

Gordon C. Seavey, Arlington, and Caperton B. Horsley, Westwood, Mass., assignors to Ultrasonic Corporation, Cambridge, Mass., a corporation of Massachusetts

Application September 29, 1948, Serial No. 51,822
5 Claims. (Cl. 183—114)



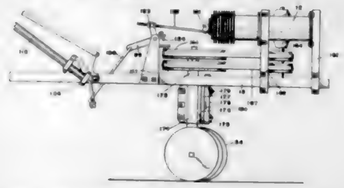
1. The method of treating aerosols to increase the average particle size to an extent permitting centrifugal separation comprising generating in an enclosure a sound field at an intensity of at least 140 db and a frequency of between 500–5000 C. P. S., and flowing the aerosol continuously through the enclosure at a rate sufficient to expose the aerosol particles to the action of sound for an average time not exceeding 10 seconds.

2,535,701

GARDEN TRACTOR

Stanley W. Shaw, Galesburg, Kans.

Application May 29, 1945, Serial No. 596,441
4 Claims. (Cl. 97—40)



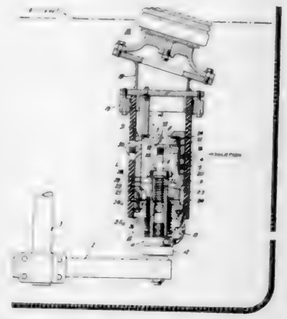
1. An agricultural implement comprising a frame, an engine mounted upon the frame for horizontal adjustment with respect thereto, said engine being laid on its side and having its output shaft depending downwardly therefrom, drive pulleys connected to the shaft one above the other and extending in horizontal planes, handle portions extending upwardly from the frame, linkage means extending between the handle portions and the engine to adjust the same on the frame, soil tilling gangs connected to the opposite sides of the frame for supporting the same, and drive means extending vertically from the soil tilling gangs to effect their rotation to propel the implement and means extending from the drive pulley of the engine horizontally and laterally for connection with the vertically extending driving means of the respective gangs.

2,535,702

ELECTRIC CIRCUIT INTERRUPTER

Wilfred F. Skeats, Lansdowne, and Thellwell R. Coggeshall, Bala Cynwyd, Pa., assignors to General Electric Company, a corporation of New York

Application September 21, 1949, Serial No. 116,986
4 Claims. (Cl. 200—150)



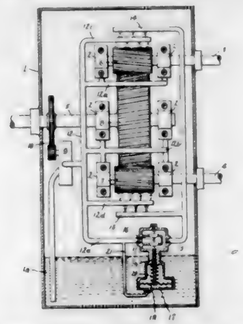
1. An electric circuit interrupter comprising an arc-extinguishing liquid, an insulating casing forming a pressure-confining chamber immersed in said liquid, a container for said liquid, relatively movable contact structure mounted within said chamber adapted to separate in said liquid to form a pressure-generating break and an interrupting break in series in the circuit, said structure including a movable bridging contact member and fixed coacting contacts, said casing having an exhaust port adjacent to said interrupting break and arranged to exhaust an arc-generated vapor pressure within said chamber to cause arc-extinguishing liquid to interrupt the arc at said interrupting break, operating means for imparting a translational movement to said contact member and guide means for imparting a positive rotational movement to said contact member which is in connection with, and in definite relation to, said translational movement whereby said interrupting break increases faster than said pressure-generating break.

2,535,703

LUBRICATING SYSTEM FOR GEAR UNITS

Norman A. Smith, Saugus, and Francis O. Fridell, Lynnfield Center, Mass., assignors to General Electric Company, a corporation of New York

Application January 12, 1949, Serial No. 70,462
4 Claims. (Cl. 184—6)



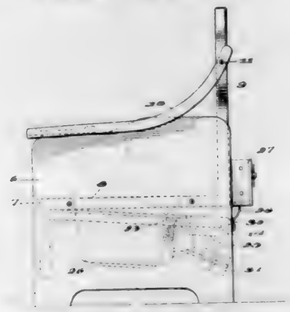
1. In a liquid supply system for cooling and lubricating a gear unit having means for delivering liquid to the bearings and meshing gear teeth from a pump, the combination of distribution conduits including first conduit means supplying liquid from the pump to the bearings and meshing gear teeth, second conduit means supplying liquid from the pump to the gear mesh only, and automatic valve means for effecting flow through the second conduit only at speeds above a pre-selected value, whereby the fraction of the total flow which is supplied to the meshing gear teeth is increased above said pre-selected speed.

2,535,704

INFANT'S TOILET TRAINING CHAIR

William R. Snyder and Morton F. Eaton, Galeton, Pa.

Application June 16, 1947, Serial No. 754,938
2 Claims. (Cl. 116—67)



1. An infant's toilet training chair comprising a main body structure having side walls and an apertured seat member therebetween, a frame beneath said seat member, removably supporting a toilet receptacle directly in line with the aperture of said seat member, fulcrum members supporting said frame between said side walls and arranged to normally balance the frame when said receptacle is in place therein, a signal device, and an abutment on said frame movable by the overbalancing and tilting thereof to actuate said signal device.

2,535,705

4 - NEOPENTYL - 1,2 - DITHIA - 4 - CYCLOPENTENE - 3 - THIONE AND 4-METHYL-5-TERTIARY - BUTYL - 1,2 - DITHIA - 4 - CYCLOPENTENE-3-THIONE

Donald R. Stevens, Wilkinsburg, and William C. Starnes, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application March 7, 1947, Serial No. 733,196
13 Claims. (Cl. 260—327)

1. A sulfur-containing chemical product selected from the group consisting of (1) 4 -neopentyl-1,2-dithia-4-cyclopentene-3-thione, (2) 4-methyl-5-tert-butyl-1,2-dithia-4-cyclopentene-3-thione, and (3) a mixture of (1) and (2).

2,535,706

4-METHYL-1,2-DITHIA-4-CYCLOPENTENE-3-THIONE

Donald R. Stevens, Wilkinsburg, and Arthur C. Whitaker, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application March 7, 1947, Serial No. 733,197
4 Claims. (Cl. 260—327)

1. As a new chemical compound, the orange-colored crystalline solid, 4-methyl-1,2-dithia-4-cyclopentene-3-thione.

2,535,707

COMBINED KITCHEN CABINET AND VENTILATING HOOD

Edward E. Vezey, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 23, 1948, Serial No. 61,655
1 Claim. (Cl. 98—115)

In a combination kitchen cabinet and ventilator adapted to be placed on a wall above a cookstove or the like, wall means defining a ventilation duct at the rear of said cabinet, means including the side and rear walls of the cabinet and a top wall structure to define a chamber in

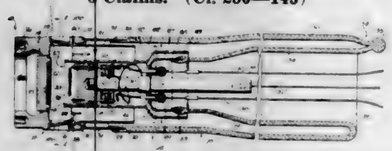
the lower portion of said cabinet, said chamber communicating with said duct and having an open bottom directly facing said stove, the forward edge of said top wall structure being substantially above the lower edge of said cabinet as defined by the side walls thereof and said structure sloping upwardly toward said duct, front wall means for closing the front opening defined by said side walls and the forward edge of said top structure, means supporting said front wall means for movement toward or away from said cabinet, an upper wall fixed to said front wall means intermediate the upper and lower edges thereof and extending rearwardly and upwardly beneath said top wall structure in spaced relation therewith, and side walls depending from said upper wall and extending substantially to the bottom of said cabinet side walls in close adjacency therewith, the slope and extent of said upper wall being such that it will engage with the top wall structure of said chamber to limit the outward movement of said front wall while the respective side walls are in overlapping relationship.

2,535,708

X-RAY GENERATOR

John J. Vlach, Milwaukee, Wis., assignor to General Electric X-Ray Corporation, Milwaukee, Wis., a corporation of New York

Application April 10, 1948, Serial No. 20,199
6 Claims. (Cl. 250—143)



1. The combination of an X-ray tube including a sealed envelope having a metal anode head forming an end of said envelope, said head comprising a sleeve-like side wall and a medial partition, integral with said side wall, means sealing said side wall in said envelope, at one end of said head, said partition having a central opening therein providing a seat facing the opposite end of the head, a target block sealed in said seat and closing said opening, said block forming an electron target facing into said envelope, an electron emitting cathode in said envelope in position facing said target, and means forming an X-ray pervious window in said side wall at the junction thereof with said partition, a housing for receiving said X-ray tube, said housing having a sleeve-like portion snugly enclosing the side walls of said anode head, said sleeve-like portion being formed with fluid inlet and outlet channels extending longitudinally therein, and a removable cover sealed on the envelope remote end of said head to form a cavity therein, in which cavity the back of said target block is directly exposed, said removable cover being formed with ducts therein for connecting said cavity with said channels for the circulation of target cooling fluid into and out of said cavity.

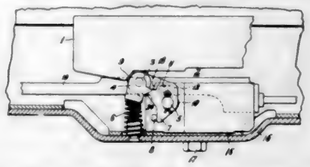
2,535,709

SEAR MECHANISM

Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York

Application September 26, 1946, Serial No. 699,399
2 Claims. (Cl. 42—69)

1. Latch mechanism comprising an arm, a pivot for one end of said arm, a latching roller on the opposite movable end of said arm, supporting means for said pivot arranged to provide for limited movement of said pivot in a predetermined path, a first spring for normally biasing said pivot, arm, and roller in a predetermined direction along said path to predetermined positions, a second spring for biasing said arm and roller about said pivot to a predetermined latching position, means for turning said arm about said pivot against the force of said second spring to a released position, and a rigid stop member for said roller normally spaced from said roller to provide for movement of said roller about said pivot to said released position when said pivot is in its said predetermined position, said stop member being provided with a concave surface in position to be abuttingly engaged by said roller and bring said latching member to rest when said roller is moved a predetermined distance along said predetermined path against the force of said first spring.

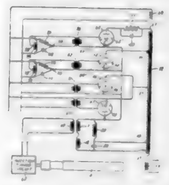


2,535,710

CONTROLLER FOR MAGNETIC INDUCTION ACCELERATORS

Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 25, 1946, Serial No. 699,284
9 Claims. (Cl. 250—27)



1. A magnetic induction accelerator comprising a source of charged particles, means in proximity to said source for projecting the particles along a desired path, electromagnetic means in intimate inductive relation with said path for subjecting charged particles to an increasing magnetic flux whereby such particles are accelerated, and energy-supplying means forming a part of said electromagnetic means and operative after predetermined acceleration of said particles to increase the rate of change of said flux, thereby to compensate for radiation losses occurring as said particles attain high energy levels.

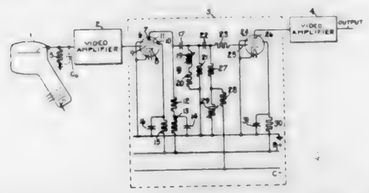
2,535,711

FREQUENCY-COMPENSATED TELEVISION CAMERA CIRCUITS

Joseph F. Wiggin, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application December 8, 1948, Serial No. 64,183
4 Claims. (Cl. 179—171)

1. In combination, a television camera tube, a load impedance network for said tube having inherent shunt capacity, an output network electrically coupled to said load network, and a compensating network connected across said load network, said compensating network having two parallel branches, one branch comprising in-



ductance L_c and resistance in series and the other branch comprising resistance R and shunt capacitance C_s, said load and compensating networks having substantially the same time constant and the shunt resistance R having a value substantially equal to

$$\sqrt{\frac{L_c}{2C_s}}$$

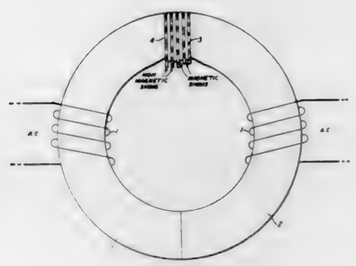
whereby the frequency response is substantially linear over a range of video frequencies supplied to said output network.

2,535,712

MULTIPLE GAP ERASE HEAD FOR MAGNETIC RECORDING

Halley Wolfe, North Hollywood, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 19, 1948, Serial No. 55,367
5 Claims. (Cl. 179—100.2)



1. An erasing head comprising a magnet core having spaced pole-pieces, an energizing coil wound on said core, and layers of non-magnetic and magnetic materials alternately disposed between said pole-pieces in such manner that said magnetic material does not contact said core, the faces defining the thickness of each of said layers being substantially plane.

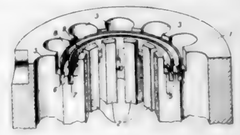
2,535,713

PROTECTIVE PLATING FOR ELECTRODES

Leland A. Wooten, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 9, 1947, Serial No. 721,139
4 Claims. (Cl. 250—27.5)

1. A magnetron anode of the multicavity type having a copper body, a working surface of said body having thereon a thin strongly adherent



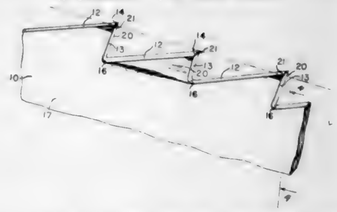
plated layer of a metal selected from the group consisting of molybdenum and tungsten.

2,535,714

MEAT SAW

Eugene A. Anderson and Leonard Charles Roberts, Atlanta, Ga., assignors to Southern Saw Service, Inc., Atlanta, Ga., a corporation of Georgia

Application April 16, 1947, Serial No. 741,722
2 Claims. (Cl. 143—133)



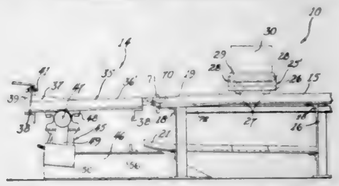
1. A band saw for cutting meat and the like, comprising a blade having angular teeth with sharp tips and with gullets between the teeth, said teeth having leading edges extending rearwardly at acute angles from the tips to the gullets; alternate teeth being oppositely offset angularly relative to the plane of the blade; and the tip portion of each tooth being twisted and further angularly offset to provide clearances from the tip toward the gullet and from the leading cutting edge to the trailing edge.

2,535,715

DUMPING MECHANISM FOR MOLD CONVEYERS

Russell J. Anderson, Racine, Wis., assignor to Belle City Malleable Iron Company, a corporation of Wisconsin

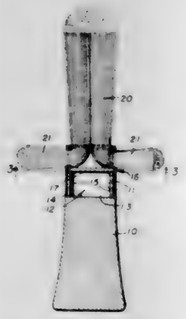
Application March 6, 1948, Serial No. 13,426
8 Claims. (Cl. 214—50)



2. A mold conveyor comprising in combination; an upper track section having an inclined portion; a lower track section inclined in a direction opposite to the inclined portion; a mold dumping means, said means including a support; a dumping cradle connected to said support for pivotal movement about a horizontal axis, said cradle including a first track section inclined generally in the same direction as the inclined portion of the upper track section, and a second track section inclined in a direction opposite to said first track section, said first and second track sections being generally disposed at op-

posed sides of the horizontal axis of said cradle; a permanent stop at one end of said second track section; a movable latch on the cradle, said latch being engageable with said upper track section to lock the first track section in normally cooperative relation with said upper track section and thereby provide a continuation thereof; a counterweight rotatable with said cradle; and a mold carrier movable by gravity on said track sections, said carrier being adapted to move over the second track section and engage said movable latch, whereby said latch is unlocked and the weight of the mold carrier tilts said cradle and said second section downwardly thereby dumping the molds from said carrier, said counterweight being adapted to return said cradle to its normal position, whereby the empty carrier moves from the second track section to the first track section and whereby the weight of said carrier tilts said first section downwardly into alignment with the lower track section, said carrier thereupon being delivered to said lower track section, and said counterweight being arranged to return said cradle to its normal locked position with respect to said upper track section.

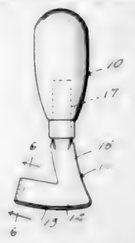
2,535,716
SHAVING BRUSH
Stanley J. Bella, Wilkes-Barre, Pa.
Application April 8, 1947, Serial No. 739,995
4 Claims. (Cl. 15—195)



1. A shaving brush comprising a handle having an axial internally screw threaded socket in one end, a collar having external screw threads at one end for cooperation with the threads of the socket and being provided with annular end walls, said collar having elongated longitudinal diametrically opposed slots therethrough and being positioned in said socket, a follower seated on the end of the handle in which the socket is formed and having its ends positioned in said slots, bristle tufts positioned between the follower and the end walls of the slots remote from the threaded end of the collar whereby threading of said collar in said socket engages said follower against the bristle tufts and clamps the tufts against the end walls of the slots.

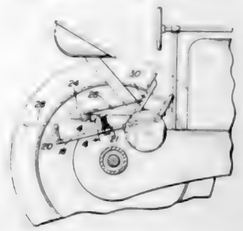
2,535,717
WING CUTTER
William Bennett, Jr., Mechanicsburg, Pa.
Application May 18, 1949, Serial No. 94,000
4 Claims. (Cl. 30—299)

1. A feather cutter for forming the wings of fish lures of the insect or fly type, comprising a substantially U-shaped blade having a convex lower cutting edge, a pair of shank members ex-



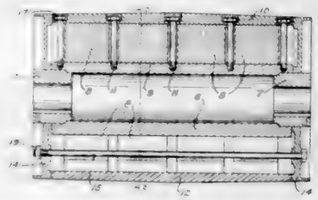
tending from the upper edges of the parallel sides of said blade, and a handle fixed to said shanks.

2,535,718
LOCKING AND RELEASING ATTACHMENT FOR TRACTOR BRAKE PEDALS
Harold Bintz, Neola, Iowa
Application February 6, 1950, Serial No. 142,694
4 Claims. (Cl. 74—542)



1. A locking and releasing attachment for operating a pivoted brake pedal locking latch of a tractor comprising an arm, a rockable member supported in a transverse position to the tractor and connected to the front end of the arm to swing the arm vertically under the brake pedal locking latch, upstanding latch actuating members carried by the arm and positioned respectively rearwardly of and forwardly of the pivot of the latch to swing the latch either forwardly into locking engagement with a brake pedal or to swing the latch rearwardly to release the brake pedal by the actuation of said rockable member, and a foot pedal connected to the rockable member for actuating the latter.

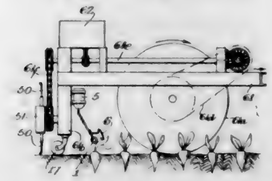
2,535,719
MAGNETIC PULLEY
Karl A. Blind, Thiensville, Wis., assignor to Dings Magnetic Separator Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 29, 1947, Serial No. 794,407
9 Claims. (Cl. 209—219)



1. In a magnetic pulley, a hub of magnetic material having polygonal cross-section bounded

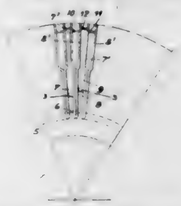
by plane outer surfaces, an annular series of permanent magnets having inner end faces snugly engaging said hub surfaces, a pole-piece of magnetic material snugly coacting with the outer face of each of said magnets and projecting laterally beyond the adjacent outer faces, and a non-magnetic spacer interposed between each adjacent pair of said pole-pieces and cooperating therewith to form the pulley face, said spacers projecting laterally beyond the laterally projecting portions of said pole-pieces inwardly of said outer magnet faces.

2,535,720
AUTOMATICALLY CONTROLLED PLANT THINNING AND CULTIVATING MACHINE
François Boncompain, Saint-Ouen, France, assignor to André Marie Auguste Ferté, Terny par Margival, France
Application August 27, 1946, Serial No. 693,364
In France July 26, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1965
11 Claims. (Cl. 97—15)



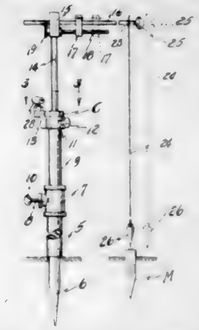
1. An automatically controlled plant thinning and cultivating machine for digging selectively parts of a row of plants comprising a feeler of electrical conducting material adapted to engage the plants of a row, a source of electricity, an electric circuit connected to said source and to said feeler and adapted to be closed by the grounding of the feeler through a plant, an amplifier connected to said circuit, a relay the energization of which is controlled by said amplifier, digging tools adapted to be moved into inoperative position by said relay when energized and timing means for automatically deenergizing during a predetermined time said relay after the circuit has been closed over a plant to be protected against the action of the tools.

2,535,721
CYLINDRICAL HEAT EXCHANGER
Gaston Chausson, Asnieres, France, assignor to Societe Anonyme des Usines Chausson, Asnieres, France, a company of France
Application June 3, 1947, Serial No. 752,094
In France June 14, 1946
1 Claim. (Cl. 257—263)



A cylindrical heat exchanger particularly adapted for dissipating heat produced by high frequency heating, comprising a passage forming sleeve and a plurality of fins extending outwardly from the periphery of said sleeve, said fins being closely and evenly juxtapositioned about said sleeve and extending radially therefrom to provide narrow substantially uniform spaces therebetween, each of said fins being formed by a sheet that is folded upon itself with the fold forming the base of the fin and being secured to the periphery of the sleeve, the folded portions being contiguous throughout their base portion to form a single body portion extending radially outward from the sleeve, said folded portion being bent apart to form a forked body portion spaced outwardly from said sleeve, and lugs struck from one of the folded portions of each fin and within both the contiguous and forked portions thereof, said lugs extending laterally into engagement with the adjacent fin to maintain said fins in uniformly spaced relation, the forked body portion being initiated at a point intermediate the radial length of the fins to maintain the spaces between adjacent fins and their forks substantially constant and the fork forming arms extending radially of the sleeve and being spaced a distance substantially equal to the distance between adjacent fins and their forks, whereby the spaces between said fins and fork arms are substantially equal and said fins and their forks provide a large heat-exchange surface having a substantially uniform relatively low coefficient per surface unit.

2,535,722
SURVEYOR'S MONUMENT SETTER
Raynold J. Cooke, East Tawas, Mich.
Application May 10, 1948, Serial No. 26,015
4 Claims. (Cl. 33—207)



1. A surveyor's monument setter comprising a sectional, hollow, telescopic stake having a rotatably adjustable stop collar mounted on the upper end thereof, a raised stop on said stop collar, a vertically adjustable rod mounted in said stake, a collar fixed thereon and engageable with said stop collar, an offset shouldered section on said second collar, a horizontally disposed adjusting screw mounted in said offset shouldered section and engageable with the raised stop for circumferentially adjusting said rod in said stake, and means for locking the adjusting screw in set position.

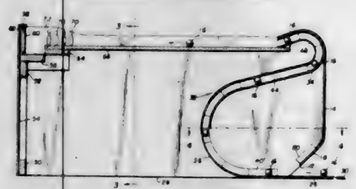
2,535,723
LAWN SPRINKLER
Frederick C. Coombs, Miami, Fla.
Application June 14, 1948, Serial No. 32,750
1 Claim. (Cl. 299—76)

A sprinkler comprising a body having an upstanding, hollow, tubular portion, said tubular

portion having an axially positioned discharge opening in the upper end thereof, said body being formed with a cylindrical boss, the axis of which extends transversely to and intersects the axis of said tubular portion, said boss having an internally threaded bore communicating with the interior of said tubular portion and the discharge opening therein, said body having a second internally threaded bore axially aligned with the axis of said tubular portion, a deflector head having an inverted, conical-shaped face positioned adjacent said discharge opening, a stem rigidly secured to said head and depending therefrom

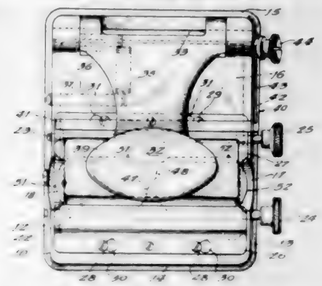
through said tubular portion, the lower end of said stem having external threads thereon positioned in engagement with the threads of said second bore, rotation of said head and stem relative to the body providing vertical adjustment whereby the head may be raised and lowered with respect to the upper end of said tubular portion, and a supporting rod for said body having external threads at one end thereof engageable with the threads of said second bore, the upper end of said supporting rod being adapted to be engaged with the lower end of said stem to lock the latter against rotation.

2,535,724
MINIATURE BOWLING ALLEY
Joseph A. Crowley, North Arlington, N. J., assignor to Clover, Incorporated, Jersey City, N. J., a corporation of New Jersey
Application January 27, 1947, Serial No. 724,685
2 Claims. (Cl. 273—39)



1. A miniature bowling alley comprising a housing having front and back walls, said front wall having an opening therein at the bottom thereof, a ramp forming a portion of the base of the housing and projecting through said opening, a substantially S-shaped chute having an inlet portion communicating with said ramp, the inlet portion of said chute being partially opened, a top on a portion of said chute, said chute having an outlet, a top in said housing forming a bowling alley floor and having ends, the first end of said floor being positioned adjacent the chute outlet, the opposite end of said floor terminating adjacent but spaced from the housing back wall, a back stop swingingly mounted at its upper end to said last mentioned wall, a trap connecting said last mentioned wall and the same end of said floor.

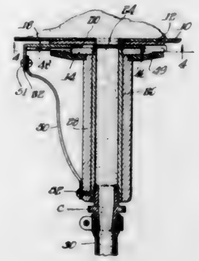
2,535,725
PLATE POSITIONING MEANS IN PRINTING MACHINES
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware
Application August 7, 1946, Serial No. 688,823
2 Claims. (Cl. 101—297)



1. A printing machine of the type adapted to be used in conjunction with a plurality of printing devices simultaneously, each printing device having a notch formed at a predetermined and different position in one end thereof, said printing machine comprising an anvil adapted to receive such printing devices from respective ends and to support said plurality of said printing devices simultaneously in predetermined printing positions wherein said printing devices are disposed within the peripheral boundaries of said anvil, a plurality of abutments mounted on and projecting from said anvil, each of said abutments being disposed in a position to enter the said notch in a corresponding one of said printing devices when said printing device is moved theretoward in predetermined relation to said anvil to thereby permit said printing devices to be disposed in a corresponding one of said printing positions on said anvil, said abutments also being disposed on said anvil in position to engage said printing devices exteriorly of said notches when said printing devices are moved toward said abutments in other than said predetermined relations to said anvil whereby said printing devices will have a portion extending outwardly beyond said anvil to indicate improper positioning, means for supporting a sheet and a platen adapted to be moved relative to said anvil to press said sheet into simultaneous printing relation with such a plurality of printing devices disposed in said printing positions.

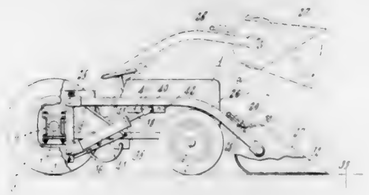
2,535,726
PLASTERER'S HAWK
Byron W. Dalton, Chicago, Ill.
Application April 30, 1948, Serial No. 24,186
7 Claims. (Cl. 72—135)

1. A plasterer's hawk equipped with a supporting handle having therethrough a passageway opening out upon the top face of the hawk, a valve extended crosswise of the handle for opening and closing the passageway therethrough, a flexible conduit connecting the lower end of the handle with a source of plaster supply for conducting plaster through the handle to the top face of the hawk subject to control of the valve, and valve-operating means arranged close to the



handle in position for manipulation by the same hand which grips the hawk handle.

2,535,727
SHOVEL LOADER
Elmer A. Dingley, Natick, Mass.
Application June 27, 1945, Serial No. 601,863
5 Claims. (Cl. 214—140)

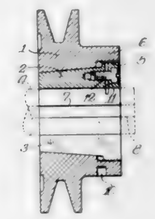


4. A loading attachment for a tractor, said attachment comprising a pair of brackets having upper and lower extensions and adapted to be attached to the tractor, an arm pivoted to each of said brackets at said upper extensions, a scoop pivotally supported between the forward ends of said arms, said arms extending forwardly substantially horizontally from said brackets when said scoop is in normal position, said forward ends being downwardly turned, and a jack pivoted at one end to the lower extension of each bracket and at its other end to one of said arms.

2,535,728
DEVICE FOR HOLDING PHOTOGRAPHIC PRINTS WHILE DEVELOPING OR FIXING
Burton D. Eisner, Chicago, Ill., assignor to Samuel G. Rautbord, Chicago, Ill., doing business as American Photocopy Equipment Co., Not Inc., a limited partnership
Application March 9, 1949, Serial No. 80,524
5 Claims. (Cl. 95—100)

5. In a photographic print holder, the combination of a pair of pivoted members having separated actuating ends for the fingers, a pair of elongated clamping bars carried by the other ends of said pivoted members in position to engage each other, spring means for urging said bars together, a plurality of spaced teeth carried by one clamping member, for holding a print against the other clamping member, upwardly extending wire arms having downwardly open hooks carried by the ends of one bar, for supporting the holder in a bath container, and a depending closed rectangular frame of round wire carried by each bar, the frames being of different dimensions, so that the wires overlap each other and engage only at crossing intersections, the said depending frames holding the prints in a plane condition, for immersion, and permitting access to the prints by the bath at substantially all parts of the print from one side or the other.

2,535,729
MOUNTING FOR SHEAVES, ETC.
David Firth, South Bend, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application January 23, 1946, Serial No. 642,818
2 Claims. (Cl. 287—52.06)



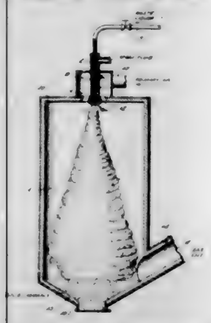
1. A shaft-mountable unit comprising a hub having a tapered bore and a tapered split contractible bushing fitting therein and bored to fit a shaft and adapted to be keyed to the shaft, said bushing having formed on its larger end a radially extending screw-threaded flange the thread of which is of uniform diameter, and said hub having in its corresponding end a circular recess for said flange, from which recess the tapered hub bore extends, said recess having a screw-threaded wall the thread of which matches and is engaged by that of said flange the bushing being a resilient one-piece sleeve split for its entire length by a longitudinal slot which extends through and splits said flange, the proportions of the parts being such that the bushing must be screwed into the hub to obtain a close fit thereof in the tapered hub bore and can then be further screwed up by rotating the hub to contract the bushing and wedge it tightly between the hub and shaft, the bushing being dewedgeable by rotating the hub relative thereto in a reverse direction to that for screwing up the bushing.

2,535,730

PROCESS FOR THE TREATMENT OF WASTE LIQUORS DERIVED FROM CELLULOSE MANUFACTURE

René H. Gadret, Mimizan-Bel Air, France, assignor of one-half to Papeteries de Gascogne (Societe Anonyme), Mimizan, France, a company of France

Application September 28, 1948, Serial No. 51,642
In France October 8, 1947
5 Claims. (Cl. 23—48)



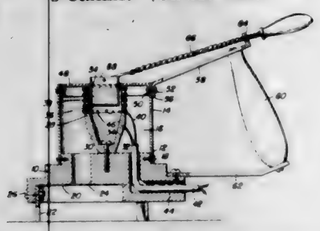
1. In a process for the recovery of normally solid inorganic components from aqueous waste liquors containing combustible components such as black liquor and distillery molasses, the steps of releasing a swirling suspension of very fine particles of said liquor in a vertical, unobstructed, confined zone where a temperature of the range of about 280° C. to about 500° C. prevails, from a point adjacent the top of said zone; supplying pressure air to said zone solely at the top thereof, in an amount insufficient to support complete combustion of said combustible components of said liquor, so as to bring about a partial combustion of said components to maintain said temperature within said range with consequent production of steam and gaseous products and release of solid chemicals from said liquor as said suspension progresses downwardly through said zone, said air being supplied in close proximity to the point of release of said suspension; removing said steam and gaseous products from said zone; and withdrawing said solid inorganic components from the bottom of said zone.

2,535,731

ELECTRICIAN'S SOLDER DIPPER HEATER

Lyonel L. Goodenrath, Shelby, Mich.

Application March 17, 1949, Serial No. 81,904
3 Claims. (Cl. 219—44)



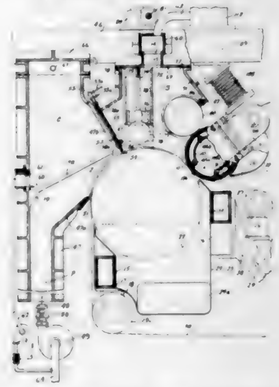
3. An electric heating device comprising a base, a cylindrical shield rising from the base and being hollow to define a heating chamber, a cylindrical bowl disposed within said chamber and axially of said cylindrical shield, an electric heating wire embracing said bowl, said bowl including a plurality of annular recesses in its outer periphery receiving said heating wire, said bowl also having a plurality of radial openings intersecting said recesses and providing heat passages, said bowl including an inwardly tapered lower end secured to said base, and means supporting the bowl centrally of and within the chamber said means including a plate attached to and disposed diametrically of said shield, said plate having a central opening in registry with said bowl and a continuous flange depending from said plate about said central opening and received in the upper end of said bowl.

2,535,732

SEALED WET END FOR PAPER MACHINES

John E. Goodwillie, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin

Application February 13, 1946, Serial No. 647,367
6 Claims. (Cl. 92—43)



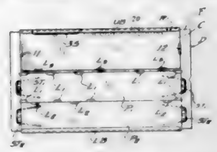
1. A sealed wet end for paper making machines comprising a foraminous cylinder, a forming wire trained therearound, guide rolls for directing the forming wire around the upper portion of the cylinder only, a stock chest on one side of the cylinder communicating with the forming wire on the ascending side of the cylinder, a couch roll coacting with the forming wire on the descending side of the cylinder, a sealing roll in nip engagement with the couch roll, wall means carrying seals enclosing a space above the cylinder, and means for introducing gas under pressure into said space for pressurizing said space.

2,535,733

PRINTING DEVICE

Walter T. Gollwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware

Application May 31, 1946, Serial No. 673,670
2 Claims. (Cl. 129—16.8)



1. In a printing device, a rectangular frame made from sheet metal and embodying means for securing a printing plate thereon and also including card-mounting means defining a rectangular card receiving area and comprising a reversely bent retaining bead extended along one edge of said frame to afford a continuous overhanging card retaining member along one side of said area, overhanging retaining clips at opposite ends of said area, and a plurality of other overhanging retaining clips disposed along the opposite side of said area with a substantial space between at least two of said other clips, and an index card of flexible and resilient sheet material of a form corresponding substantially with said area and affording first and second side edges adapted to be positioned respectively beneath said retaining bead and said other clips and having a portion of said first side edge cut away opposite one of said spaces between said other clips so as to enable said card to be buckled momentarily in an endwise direction and upwardly past said bead to thereby reduce the effective length of the card and enable the same to be inserted under the overhanging clips at the ends of said area.

2,535,734

APPARATUS FOR CREPING PAPER AND OTHER CREPABLE FOILS

Karl Einar Lage Grettve, Lilla Edet, Sweden

Application July 12, 1945, Serial No. 604,639
In Sweden January 8, 1945
3 Claims. (Cl. 154—30)

1. In a machine for craping paper and other crapable material the combination comprising a driven endless band of elastic material, means for periodic expansion and contraction of the band in a transverse direction, means for bringing the crapable material in contact with the band at a point where the band is expanded and taking it off therefrom at a point where the band is contracted, said means for periodic expansion and contraction comprising two discs having the same diameter, a shaft to which each one is fixed and means for driving said discs at the same speed, said shafts inclining towards an axis through the centers of the discs, and the band being provided with protuberances along its edges gripping into the edges of the discs, causing extension and contraction of the band transversely during each revolution of the discs.

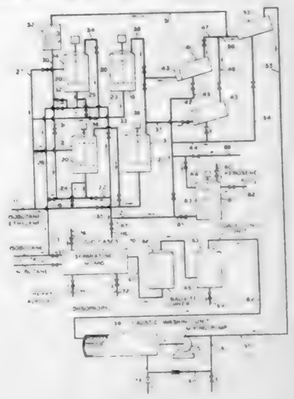
2,535,735

METHOD OF REMOVING ALUMINUM HALIDES IN HYDROCARBON CONVERSION PROCESSES

John L. Groebe, Phillips, Tex., and Edward F. de Villafranca, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application October 23, 1945, Serial No. 624,046
11 Claims. (Cl. 260—683.4)

1. In a hydrocarbon conversion process wherein conversion is effected in the presence of an aluminum chloride catalyst and wherein a vaporous effluent from a reaction zone contains a minor amount of aluminum chloride, the improvement which comprises contacting said vaporous effluent containing aluminum chloride with an aqueous solution of sodium hydroxide of an initial concentration between about 8 and 11 mole per cent at a temperature below 200° F. under conditions such that said vaporous effluent is rapidly cooled and condensed and a substantial portion of said aluminum chloride is removed, continuing the contacting with additional



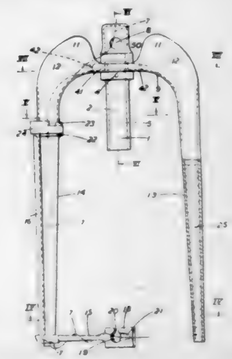
effluent at gradually decreasing concentration of sodium hydroxide in said solution as reaction with metal halide progresses until the stage of imminent precipitation is reached, and thereafter replacing the spent caustic solution with fresh solution of the aforesaid concentration.

2,535,736

FLIER FOR SPINNING AND LIKE MACHINES

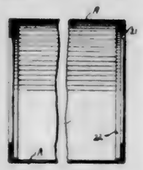
Charles Henry Hattersley, Leeds, England

Application April 22, 1947, Serial No. 743,033
7 Claims. (Cl. 57—117)



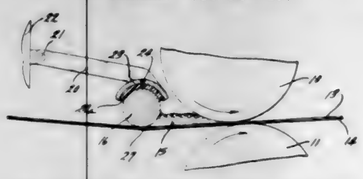
1. In a flyer of the type referred to, the combination of a driving socket and a one-piece structure of sheet metal of uniform wall thickness having an integrated slip-band structure and comprising two tubular legs and a transverse top member formed with a bottom portion of two upstanding marginal ribs formed with gaps adjacent to the socket, the bottom portion being substantially wider at the center of the flyer than the bottom of the socket and wider than the distance between the top marginal ribs on opposite sides of the transverse member.

2,535,737
TRAVERSE
Hilyard C. Howsam, Chicago, Ill., assignor to Hubbard Spool Co., Chicago, Ill., a corporation of Illinois
Application January 17, 1946, Serial No. 641,782
1 Claim. (Cl. 242—123)



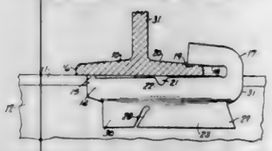
A traverse for a reel comprising a cylindrical body portion of single thickness stock, radially inwardly directed double thickness annular end flanges formed integrally with and of the same stock as said body portion, and annular reinforcing rings extending about the inner periphery of said body portion at each extremity thereof, said rings being formed of the same stock as said flanges and said body portion to reinforce that body portion edge adjacent said flanges by cooperation with said body portion to present a double thickness terminal annular edge joining said flanges to said body.

2,535,738
SLICE ROLL ASSEMBLY FOR PAPER MACHINE PRESSES
George F. Hrubecky, Neenah, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application January 30, 1947, Serial No. 725,323
10 Claims. (Cl. 92—49)



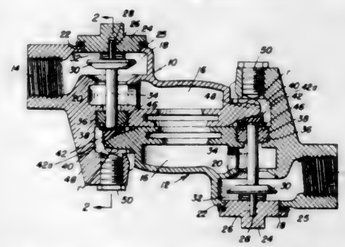
1. In combination with a paper machine press including nip-defining cooperating press rolls receiving a press felt through the nip thereof, a slice roll in closely spaced relation in advance of said nip, means rotatably mounting said slice roll for rotation on said press felt, and wiper means coacting with said slice roll along the length thereof for confining liquid on the felt between the nip and slice roll.

2,535,739
RAIL ANCHOR
Jacob A. Hyle, Pittsburgh, and Stanley L. Favinger, Mount Lebanon, Pa.
Application March 17, 1949, Serial No. 81,914
1 Claim. (Cl. 238—327)



A rail anchor for engagement with the base flange of a railway rail comprising an elongated bar positioned beneath said flange, clamping jaws carried by the opposite ends of said bar for engagement with the opposite edges of said flange, and a pair of vertically depending plates secured to the opposite sides of said bar and offset laterally therefrom, said bar being provided with a transversely extending slot in its upper surface and substantially mid-way between the ends of said bar, each of said plates being provided with a narrow slot intermediate the ends thereof, said slots extending from the bottom edges of said plates and terminating adjacent the lower surface of said bar, the upper ends of said slots being disposed substantially beneath the transverse slot in said bar, whereby said bar and plates are flexible to permit easy application of the rail anchor to said flange.

2,535,740
AUTOMATIC SAFETY AIR VALVE COUPLING
William Knopp, Mount Shasta, Calif., assignor of one-half to Knopp Air Coupling Co., a corporation of Oregon
Application November 17, 1947, Serial No. 786,432
6 Claims. (Cl. 284—10)

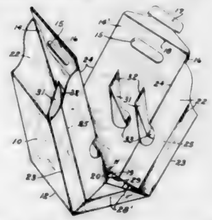


1. A safety air valve coupling comprising first and second elongated valve housings, said first valve housing having a first air passage therein and said second valve housing having a second air passage therein in communication with the first air passage, a first vertically slidable valve carried by the first valve housing for controlling the flow of fluid through the first air passage, a second vertically slidable valve carried by the second valve housing for controlling the flow of fluid through the second air pasage, a first lever pivoted to the first valve housing and underlying the first valve, a second lever pivoted to the second valve housing and overlying the second valve, means urging the valves to their closed position, said first lever having a lower cam surface and said second lever having an upper cam surface, an upper cam at one end of the first valve housing, and a lower cam at one of the second valve housing, said upper cam riding against the cam surface of said second lever to force the second lever downwardly thereby urging the second valve to its open position, said first valve being raised to its closed position as the lower cam rides against the lower cam surface of the first lever to urge the first lever upwardly.

2,535,741
BOTTLE CARRIER
Stephen Lighter, Whitefish Bay, Wis.
Application October 28, 1946, Serial No. 706,198
5 Claims. (Cl. 229—28)

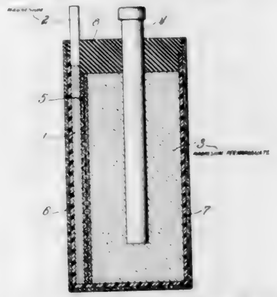
1. A bottle carrier comprising, a unitary cardboard structure having two bottle-receiving units each provided with an outer side wall and an inner side wall integrally united with its outer wall by opposite end walls, and a bottom structure for

said carrier comprising an upper bottom section formed integral with the lower end of each of said inner walls and having an integral foldable section at opposite ends thereof, each of said foldable



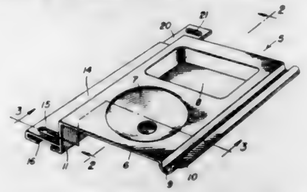
sections being integrally connected with the bottom edge of the adjacent end wall of the corresponding unit and a rigid one-piece lower bottom wall formed integral with the lower ends of said outer walls.

2,535,742
PRIMARY CELL WITH ELECTRODES OF MAGNESIUM AND MAGNESIUM PERMANGANATE
Demetrios V. Louzos, Freeport, Ill., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application February 18, 1948, Serial No. 9,313
14 Claims. (Cl. 136—100)



1. In a primary cell, a negative electrode of a metal consisting of at least 90% magnesium in combination with a positive electrode of magnesium permanganate.

2,535,743
TRAY ATTACHMENT FOR ADDING MACHINES, TYPEWRITERS, AND THE LIKE
Carl A. Lundahl, Waukegan, Ill.
Application October 28, 1947, Serial No. 782,598
3 Claims. (Cl. 197—180)

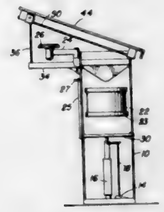


2. A typewriter attachment of the class described comprising a tray having a depending flange along one longitudinal edge, said flange having extensible and retractable attaching members, one member being a sheath, the other member being a slide which is slidably mounted in said sheath, said sheath and slide having apertures to accommodate fastening screws.

2,535,744
COMBINATION STEERING COLUMN SUPPORT AND INSTRUMENT PANEL
Kenneth E. Lyman, Lake Forest, Ill., assignor to Tucker Corporation, Chicago, Ill., a corporation of Delaware
Application June 21, 1947, Serial No. 756,234
6 Claims. (Cl. 180—78)

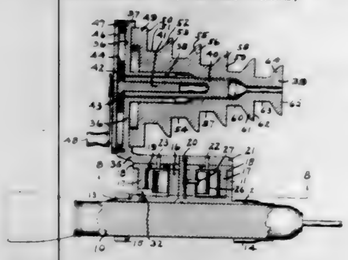
1. A combination steering column support and instrument panel comprising a two-part bearing, a pair of channel members secured to said bearing on opposite sides thereof, a pair of side beams joined to said channel members, a backing plate secured to said side beams, a U-shaped casing enclosing said bearing and side beams, and a front panel carried by said casing.

2,535,745
SPOTTING TABLE ATTACHMENT FOR CLEANING APPARATUS
Raymond Lyons, Paintsville, Ky.
Application December 4, 1947, Serial No. 789,737
2 Claims. (Cl. 311—36)



1. For use with a fabric cleansing apparatus, an attachment comprising an arm, a block slidably disposed on said arm, means carried by said block fixing said block to said arm in selected positions, an apertured plate, a pair of longitudinal rows of brackets disposed on one surface of said apertured plate, a plurality of transverse bars carried by said brackets, bosses disposed on at least two of said transverse bars, openings in said bosses and a link disposed in said openings mounting said plate for pivotal movement about said link as an axis.

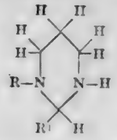
2,535,746
SWIVELED STEPPED BOBBIN FISHING REEL
John E. Mitchell, Indianapolis, Ind.
Application March 12, 1947, Serial No. 734,089
13 Claims. (Cl. 242—84.1)



1. In a reel, a cylindrical base member; a sleeve rotatably telescoping in said member; a reel bobbin mounted on said sleeve, a spring interconnecting said member and said sleeve; a stop member carried by said base member to hold said sleeve in a position rotated to wind said spring substantially ninety degrees of travel from an initial normal position; said initial position being a rewind position; and said rotated position being a line casting position; a crank at one bobbin end for revolving the bobbin; and said bobbin having a plurality of cylindrical sections decreasing successively in diameter from said bobbin end, and a frusto-conical section between adjacent cylindrical sections, each arranged to have its small diameter end at the end of the larger diameter cylindrical section from which it extends.

2,535,747
SUBSTITUTED HEXAHYDROPYRIMIDINES AND METHOD FOR PRODUCING THEM
Glen H. Morey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application August 28, 1948, Serial No. 46,725
5 Claims. (Cl. 260—251)

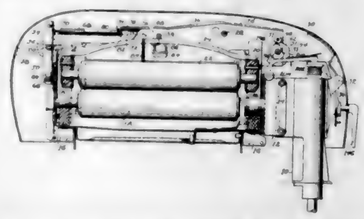
1. As new compositions of matter, N-substituted hexahydropyrimidines having the general structure:



wherein R is a substituent group selected from the class consisting of alkyl and hydroxyalkyl, and R^1 is a substituent group selected from the class consisting of hydrogen and phenyl.

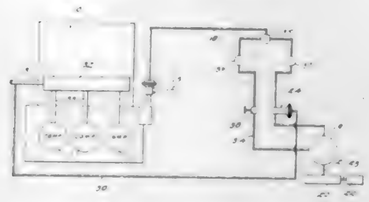
2,535,748
WRINGER HEAD MECHANISM
Charles Everett Morgenstern and Robert E. Lake, St. Joseph, Mich., assignors to Nineteen Hundred Corporation, St. Joseph, Mich., a corporation of New York
Application January 18, 1946, Serial No. 641,931
15 Claims. (Cl. 68—253)

1. A driving mechanism for wringer rolls or the like comprising a hollow driving gear for the wringer rolls, a hollow coupling member engageable with said driving gear for co-rotation, a manually operable lever having a neutral and an operating position for maintaining said coupling member respectively out of and in engagement with said driving gear, a hollow drive shaft freely insertable thru both said hollow driving gear



and said hollow coupling member, means including a plunger movable within said drive shaft for locking said coupling member to said drive shaft for co-rotation, and manually controlled means for moving said plunger to unlock said coupling member from said drive shaft.

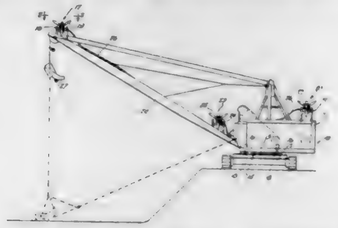
2,535,749
COMBINED STEAM ENGINE, COMPRESSOR, AND CONTROL THEREFOR
Herman Gundert Mueller, Erie, Pa.
Original application June 8, 1943, Serial No. 490,071. Divided and this application May 10, 1945, Serial No. 593,050
6 Claims. (Cl. 230—9)



1. In combination a steam engine, a compressor coupled to and operated by said engine, said engine including a reciprocable operating valve for effecting the cyclic operation of the engine, valve gear connected to said valve for reciprocating the latter and for producing the cyclic steam events, means for adjusting said valve gear to thereby vary the reciprocal movement of said valve, said latter means including pressure actuated regulating means connected to the output side of said compressor and said valve gear adjusting means for adjusting said valve gear in accordance with the variation in pressure at the output side of said compressor.

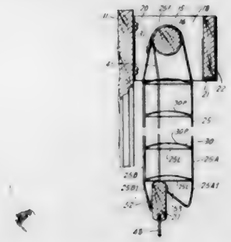
2,535,750
EXCAVATOR
Thomas C. Mullins, Chicago, and William E. Mullins, Jr., Chester, Ill.
Application February 25, 1946, Serial No. 649,813
3 Claims. (Cl. 212—66)

1. Excavating apparatus comprising a mobile carriage, a superstructure pivotally supported by the carriage for swinging movement on a vertical axis, said superstructure comprising a boom extending laterally therefrom, power operated mechanism on the carriage and superstructure for swinging the latter about said axis, and a power operated air screw mounted on said boom for exerting a force that is additive to the force



exerted by said mechanism in swinging said superstructure.

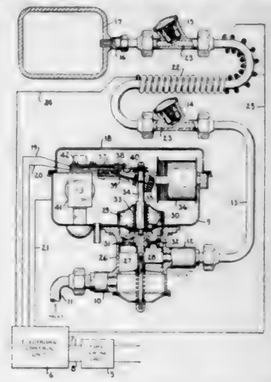
2,535,751
VENETIAN BLIND
Michael J. Nardulli, Chicago, Ill., assignor, by mesne assignments, to Michael J. Nardulli, Angelo F. Naples, Peter F. Nardulli, and William H. Mozal, as trustees
Application March 10, 1947, Serial No. 733,454
2 Claims. (Cl. 160—170)



1. In a Venetian blind, a pair of ladder tapes each including inner and outer bands and spaced ladder elements connecting said bands, a plurality of slats supported on the respective ladder elements of said tapes and having clearance openings therethrough in the space between said bands of said tapes, means for supporting and imparting tilting movements to said bands, a non-tilting toe rail, means including elevating cords attached to said toe rail for raising and lowering the blind, and means securing said inner and outer bands to opposite sides of said toe rail in a relation such that the lowermost ladder element of said tapes may be disposed with one end thereof at substantially the level of the top of said toe rail while the other ends of said such lowermost ladder elements may be disposed in an upward position spaced from the upper edge of said toe rail in an amount equal substantially to the width of said slats.

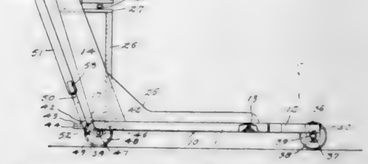
2,535,752
INJECTION SYSTEM AND APPARATUS THEREFOR
Donald J. O'Connell, Milwaukee, Wis., assignor to Clement A. Makowski, Milwaukee, Wis.
Application April 4, 1947, Serial No. 739,455
6 Claims. (Cl. 103—1)

1. Apparatus for injecting material into a receiving vessel comprising, a receiving vessel, means for conducting a supply of the material to a confined space to completely fill the latter, means externally of said confining space for heating the material within the confined space to expand the same, and means for releasing the



expanded material from said space and for introducing the same into the receiving vessel.

2,535,753
LIFT JACK
Ted M. Parker, Kansas City, Mo.
Application June 3, 1948, Serial No. 30,825
3 Claims. (Cl. 254—8)

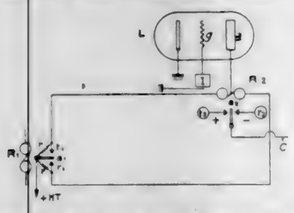


1. A portable lift jack comprising a wheeled base frame having axles and wheels including steering wheels at one end of the frame, a handle bar connected to the steering wheel axle, said latter axle having a fifth wheel connection to the frame, a mast including side bars attached to the frame at points disposed outwardly of and to each side of said fifth wheel sloping inwardly and upwardly with ends thereof terminating beyond the end of the frame to form fixed spaced ends disposed above and rearwardly of said fifth wheel, an arm having spaced sides pivoted to the upper ends of the side bars of the mast for vertical swinging movement and overhanging the frame, and a horizontal support carried by the mast having side bars formed with divergent ends secured to the frame.

2,535,754
RETRANSMITTER SYSTEM AND IMPULSE CORRECTOR
Pierre Pellé, Arcueil, France
Application March 21, 1946, Serial No. 655,971
In France February 15, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 15, 1965
6 Claims. (Cl. 178—70)

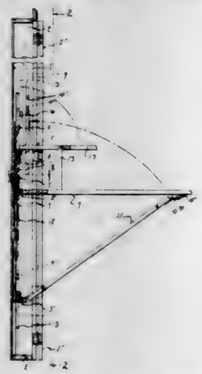
1. In an impulse corrector for transmitting systems, a relay energized by the signal to be

corrected, said relay being provided with two spaced contacts and with an armature movable between said two contacts for alternately engaging the same, means for connecting said armature to a source of high potential, a differential polarized relay including two serially connected coils and a movable armature movable between two fixed contacts of said last named relay, a three-electrode tube having an anode and a grid, said anode being conductively connected to the point of connection between said serially connected coils of said differential relay, the two



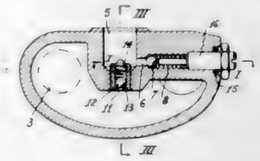
other ends of said coils being conductively connected respectively, to said two contacts of said first named relay, a local power supply for feeding current impulses to the grid of said tube thereby generating in said tube a current passing through said anode and the coils of the differential relay whose circuit is closed by said first named armature, said movable armature of said differential relay and the two contacts associated therewith forming parts of an output circuit adapted to be alternately connected with the positive or negative pole of a power supply.

2,535,755
ADJUSTABLE IRONING BOARD
Gustave T. Rieter, Cedarburg, Wis.
Application May 20, 1948, Serial No. 28,120
2 Claims. (Cl. 38—126)



1. In a cabinet having side walls and a back wall, the side walls being provided with long vertical grooves and an upper short groove offset from the long grooves; a vertically shiftable skeleton frame housed in the cabinet, the same having vertical side-strips, one of the same being longer than its companion, a sleeve board pivoted to the upper portion of the skeleton frame, a locking button pivoted to the long side-strip of the frame for locking the sleeve board in its closed position; a top cross-strip, a board supporting cross-strip thereunder and a bottom cross-strip connecting the frame side-strips, the cross-strips having projecting ends slidably fitted in the grooves of the cabinet side walls, an ironing board having a transverse rail secured to its base terminating with trunnions engaging in the long vertical grooves below the board supporting cross-strip, a bar secured to the board intermediate its ends, a brace leg pivoted to the bar and bottom frame cross-strip, a centrally positioned rack secured to the back wall of the cabinet, a depending dog pivoted to the top cross bar of the frame engaging the rack, and a spring controlled slat secured to the rear face of the bottom cross-strip of the frame having a notch in its upper end engageable with the bottom face of the ironing board, the board rail being engageable with the board supporting cross-strip, when said board is held in its horizontal working position, and a bolt carried by the transverse bar of the board for engagement with the short groove of the cabinet, when the board is folded in the cabinet, whereby the frame and associated board may be dropped down to the base of the cabinet, when said parts are collapsed.

2,535,756
AIR-LINE LUBRICATOR
Robert Ronceray, Thiais, France
Application June 13, 1946, Serial No. 676,448
In France March 5, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 5, 1963
1 Claim. (Cl. 184—55)

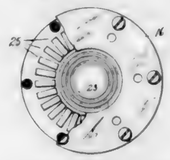


An airline lubricator comprising a lubricant container, a valve housing in the upper portion of the container, a lateral passage in said housing opening at one end directly to the outside for connection to an airline, said lateral passage communicating at its other end directly with the inside of the container, a spring-tensioned valve normally preventing the flow of fluid from said container through said lateral passage, a horizontal passage extending directly from said lateral passage to the outside, a vertical passage extending from said horizontal passage to the inside of the container and terminating near the bottom thereof, a valve in said horizontal passage in the region between the inner side of said vertical passage and said lateral passage, a spring urging said last valve seated for normally closing said horizontal passage against fluid from said lateral passage, and means on the outer side of said vertical passage for closing the outer end of said horizontal passage and including spring adjusting means accessible from the outside of the container.

2,535,757
PERIPHERALLY DRIVEN ELECTRO-ACOUSTICAL TRANSDUCER
John J. Root, New York, N. Y.
Application June 25, 1946, Serial No. 679,100
8 Claims. (Cl. 179—115)

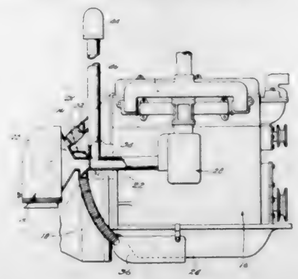
1. An electroacoustic transducer comprising in combination a conical acoustical diaphragm, discrete and symmetrically spaced armature means disposed peripherally of said diaphragm, and

magnetic means to actuate said armature means, said diaphragm being actuated by said armature



means whereby sound waves are radiated from a central area of said diaphragm.

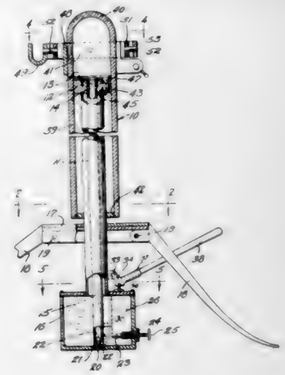
2,535,758
PREHEATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Otto R. Schoenrock, Oak Park, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application May 15, 1948, Serial No. 27,295
6 Claims. (Cl. 123—142.5)



3. In a preheating system for an internal combustion engine having a plurality of fluid spaces to be heated, the combination of an air-heating unit, means for distributing the heated air forced from said unit to effect heating of the exposed fuel lines and oil pan of said engine, said means comprising directional duct housings shaped to enclose said fuel lines and oil pan, a plurality of valves, and a controlling means for operating said valves, said means allowing both said fluid spaces to be heated independently, consecutively, or simultaneously, and means for forcing the heated air from said unit to said housings.

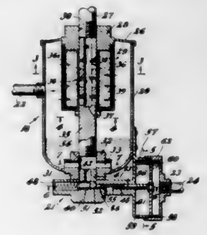
2,535,759
HYDRAULIC BUMPER JACK
Joseph Carl Schwantner, Chicago, Ill., assignor of one-half to Helen Schwantner, Chicago, Ill.
Application September 25, 1945, Serial No. 618,525
1 Claim. (Cl. 60—52)

In a hydraulic jack, a liquid reservoir, a tubular column extending vertically from the reservoir, the lower end of the tubular column opening into the reservoir, a piston carried by and closing the upper end of the tubular column, a cylinder mounted on the piston to slide vertically, means extending axially through the piston to feed liquid under pressure upwardly into the cylinder above the piston, said piston having a passage therein opening through its top and into the interior of the column, a check valve in the passage to arrest the flow of liquid through the passage from the cylinder to the column, a valve stem on the check valve and extending through the bottom of the piston and guide means on the cylinder and encircling the column to guide the cylinder as it moves on the piston and to engage the valve stem and open the check valve



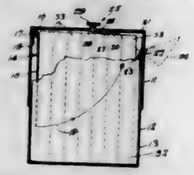
when the cylinder reaches a predetermined height on the piston.

2,535,760
AUTOMATIC SLUDGE DRAIN FOR AIRBRAKE SYSTEMS
Otis R. Sherman, New York, and Samuel Jacovelli, Brooklyn, N. Y.
Application June 21, 1947, Serial No. 756,184
5 Claims. (Cl. 303—88)



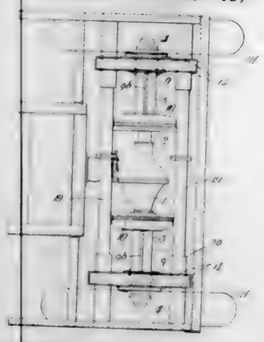
1. In a compressed air system including a compressor and an air reservoir, said compressor having an output outlet, an upright housing having an outlet through the top thereof and having an inlet positioned intermediate the height of the housing, a line connecting said housing outlet with said reservoir, a line connecting said compressor with said housing inlet, a check valve positioned in said first-named line above and closely adjacent said top of said housing, said housing having a drain valve mounted in the bottom thereof, said drain valve having normally expanded resilient means for normally closing said drain valve, means for compressing said resilient means for opening said drain valve, and a filter surrounding said housing outlet to prevent sludge from passing with fluid between said housing inlet and said housing outlet said sludge thereby settling to the bottom of said housing, said check valve upon opening of said drain valve preventing discharge of fluid from said reservoir through said first-named line and said housing into the atmosphere.

2,535,761
CIGARETTE CASE
Stephen S. Szymanski, Holyoke, Mass.
Application September 13, 1946, Serial No. 696,841
2 Claims. (Cl. 206—41.2)



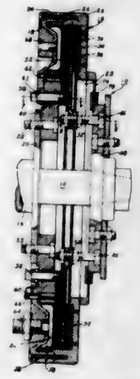
1. A cigarette case comprising upper and lower telescoped sections, said upper section having first and second corners, said first corner having a dispensing opening therein, a pivot pin carried by the upper section and disposed at the second corner, a substantially U-shaped resilient, wire frame member having spaced leg portions, a sheet of material extending between and partially filling the space between the leg portions of said wire frame member, coils on the leg portions of said wire frame member receiving said pivot pin, and arms projecting from the coils and yieldingly bearing against the inner surface of the upper section to urge the wire frame member toward the dispensing opening.

2,535,762
MECHANISM FOR ADJUSTING THE SPACING OF TRACTION DRIVE MEANS FOR VARIABLE TRACK VEHICLES
Ernest T. J. Tapp and Joseph Davey, Fleet, England, assignors to Pest Control Limited, Harston, Cambridgeshire, England, a British company
Application July 31, 1947, Serial No. 765,093
In Great Britain May 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 23, 1966
6 Claims. (Cl. 180—75)



1. An improved drive for a variable track vehicle comprising a transverse driven shaft, a plurality of load-carrying transverse members disposed around said driven shaft, a downwardly extending tubular casing on each side of said vehicle having its upper part slideably mounted on said transverse members and carrying a driving wheel on its lower part, a transmission wheel rotatably mounted within said upper part of said tubular casing and slideably mounted on said driven shaft for adjustment axially thereof but fixed for rotation therewith, and within said tubular casing a driving connection from said transmission wheel to said driving wheel.

2,535,763
FLUID PRESSURE OPERATED DISK BRAKE
Preston T. Tucker, Ypsilanti, Mich., assignor to Tucker Corporation, Chicago, Ill., a corporation of Delaware
Application July 29, 1946, Serial No. 686,893
3 Claims. (Cl. 188—152)



1. A wheel braking mechanism comprising a stationary housing, an axially slidable disc disposed concentrically within said housing and connected to the wheel for rotational movement therewith, frictional elements carried by said housing on each side of said disc for frictionally resisting rotational movement of said disc upon frictional engagement, one of said frictional elements being mounted for adjustment laterally relative to the housing, screws adjustable in said housing and extending beyond the inner side of the housing wall for limiting the movement of the adjustable frictional element away from the disc to its normal position of adjustment, spring means urging said latter frictional element against said stop, another spring means normally laterally spacing said disc from the frictional elements, and a fluid actuated diaphragm operating on the movable frictional element to bring the frictional elements and disc into frictional engagement against the forces of the spring means.

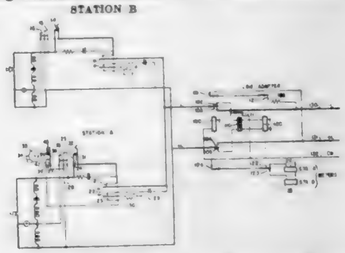
2,535,764
RELAY AUTOMATIC TELEPHONE SYSTEM
John H. Voss and Roy W. Jones, Rochester, N. Y., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 8, 1947, Serial No. 720,756
14 Claims. (Cl. 179—18)

1. In a telephone system, a plurality of groups of trunks, a plurality of switches having access to said trunk groups, said switches divided into a plurality of switch groups with a plurality of switches in each switch group, a digit register for each switch and circuits controlled thereby, a group of trunk access relays individual to each switch group, each group of trunk access relays comprising a relay individual to each switch in the corresponding switch group operative from said register over one of said circuits in response to the receipt of impulses indicating a trunk call number by the corresponding switch, a group of trunk group relays individual to each trunk group, each group of trunk group relays comprising a relay individual to each switch group operative from said register over another of said circuits in response to the receipt of impulses representing the call member of the corresponding trunk group by a switch in the corresponding switch group, a group of trunk selecting relays individual to each trunk group, each group of trunk selecting relays comprising a relay individual to each trunk in the group circuits for said last relays for operating the same in a definite order under control of said trunks, in accordance with the idle or busy condition of the individual trunks in the corresponding trunk group, chain circuits for said access and trunk group relays for causing only one of said individual relays in one of said groups of trunk access relays and only one of said individual relays in one of said groups of trunk group relays to be operated at a time in response to a plu-

rality of said switches receiving impulses representing a trunk call member, circuit connections extending from said switches and controlled by the operated trunk access relay and the operated trunk group relay for extending said connections to the group of trunk selecting relays of the trunk group corresponding to the operated trunk group relay, trunk connecting relays in each of said switches for connecting said switches to an idle trunk in any of said trunk groups, and means for operating the trunk connecting relays in the calling switch over said extended connections in accordance with the operated condition of said trunk selecting relays of the selected trunk group to complete a trunk call to an idle trunk in the selected trunk group.

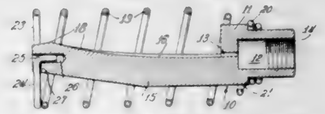
2,535,765
TWO-PARTY METERING AND LINE ADAPTER
John H. Voss, Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application July 2, 1947, Serial No. 758,608
11 Claims. (Cl. 179—8.5)

10. In a telephone system, a party line having a first and a second station thereon, a meter for each station, a line relay individual to said party line normally disconnected from the line conductors of said party line, station identifying means individual to said party line normally connected to the line conductors of said party line for selecting said meters, means for operating said individual station identifying means over said line conductors in response to the removal of a receiver at any one of said stations on the initiation of a call, a circuit completed by the operation of said individual station identifying means for operating said line relay, means responsive to the operation of said line relay for operatively connecting the line conductors of said party line to said line relay and for operatively disconnecting said individual station identifying means from said line conductors of said



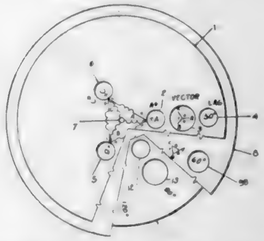
party line, and a locking circuit closed only in case a particular one of said stations originated the call for maintaining said individual station identifying means in operated position to select the meter corresponding to said one station.

2,535,766
GUARD FOR NOZZLE SPRAY DEFLECTORS
Fred W. Wahlin, Oak Park, Ill., assignor to Spraying Systems Co., Chicago, Ill., a corporation of Illinois
Application December 7, 1948, Serial No. 63,925
3 Claims. (Cl. 299—121)



1. The combination of a nozzle having a deflector projecting therefrom in the path of discharge from the nozzle, said nozzle and deflector each having a seat, and a deflector guard comprising an axially distended helical spring surrounding the deflector and having the opposite ends thereof engaged respectively in said seats.

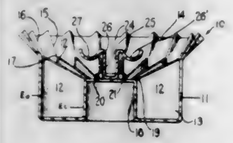
2,535,767
THREE-PHASE TRANSFORMER CONNECTION AND PHASE-ANGLE INDICATOR
Elmer Sauter Warner, Schaumburg Township, Cook County, Ill.
Application January 17, 1949, Serial No. 71,330
7 Claims. (Cl. 235—88)



2. An indicator of the character described comprising a rotatable opaque element having on the obverse side a series of symbols designating transformer primary connections and five windows, and upon the reverse side just five windows, a second rotatable opaque element having upon each side a series of phase designations, vector symbols, and two windows, a third rotat-

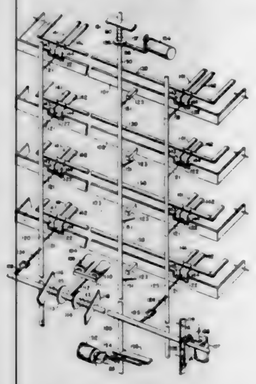
able opaque element having upon the obverse side a series of phase-angles with four windows and upon the reverse side a series of symbols designating transformer secondary connections and four windows, and means for associating the three elements to permit independent rotation of each and in a manner to allow any desired transformer primary connection designation to be brought into registering relation to any series of primary phase designations, and any desired transformer secondary connection designation to be brought into registering relation to any series of secondary phase designations thereby indicating the phase-angle between primary and secondary.

2,535,768
SAFETY ASH TRAY
Leon W. White, Pittsfield, Mass.
Application March 28, 1945, Serial No. 585,341
1 Claim. (Cl. 131—235)



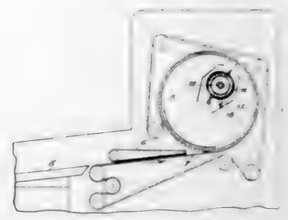
An ash tray comprising inner and outer concentric cylindrical walls, and a plurality of circumferentially spaced radially disposed partitions joining the inner and outer walls, said partitions being of a length substantially equal to the diameter of said inner wall, each of said partitions including an outer vertical edge and an inner vertical edge, and the distance between the inner vertical edges of adjacent partitions being considerably less than the diameter of a cigarette to permit the mashing of a cigarette as the same is moved between an adjacent pair of partitions and toward the inner wall.

2,535,769
SWITCH OF THE CROSSBAR TYPE
John Wicks, Biloxi, Miss., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 19, 1948, Serial No. 9,357
8 Claims. (Cl. 179—27.54)



1. In a switch, two bars mounted adjacent each other in an intersecting plane, two sets of contacts at said intersection of said bars, one of said bars having means for selecting either of said contact sets, a shaft adjacent to said bars at an angle to said one bar and having means for engaging said one bar, means for rotating said shaft thereby to cause said shaft to engage said one bar, means for moving said shaft longitudinally in either of two directions, the moving of said shaft in one of said directions causing said selecting means of said one engaged bar to select one of said contact sets, the moving of said shaft in said other direction causing said selecting means of said one engaged bar to select said other contact set, and means for causing said other bar to operate the selected contact set.

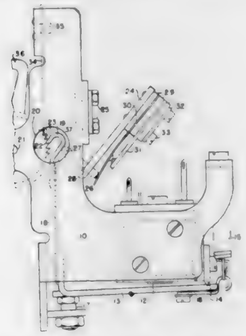
2,535,770
PHOTOGRAPHIC PRINTER AND FILTER FOR USE THEREWITH
Frederick G. Wilde, Rochester, N. Y., assignor to Paragon Revolute Corporation, Rochester, N. Y., a corporation of New York
Application February 21, 1948, Serial No. 10,033
3 Claims. (Cl. 95—77.5)



1. In combination with a printer for photosensitive sheets having a rotatable transparent contact cylinder, an elongated light source mounted within the cylinder to extend lengthwise thereof, movable belt-like means engaging the outer surface of said cylinder whereby said sheets are brought into contact with said surface to be printed by light transmitted from the source through the cylinder, a stationary transparent light filter open at its ends and enclosing said light source, said filter including an annular chamber interposed between said light source and said cylinder, and a light filtering fluid contained in said chamber through which photographic light is transmitted in the direction of said cylinder.

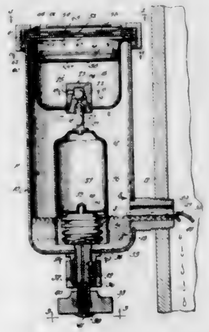
2,535,771
CONTACT SPRING OPERATION AND DRIVE IN AUTOMATIC SWITCH
Cecil Robert Woodland, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application May 13, 1947, Serial No. 747,781
In Great Britain May 15, 1946
8 Claims. (Cl. 179—27.51)

1. An automatic selecting switch having wipers, a ratchet wheel for driving said wipers, a curved electromagnetically operated pawl, means for moving said pawl to engage the teeth of the wheel to move the same, a pair of interrupter springs and a slidable member linking the curved portion of said pawl with said springs, said springs operated by said pawl through said



slidable member and moved thereby only near the end of the forward stroke of the pawl.

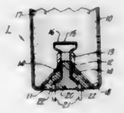
2,535,772
HUMIDIFIER
William J. Woolley, Chicago, Ill.
Application March 4, 1946, Serial No. 651,722
12 Claims. (Cl. 237—78)



4. A humidifier for a steam radiator or the like, comprising a chamber, means for connecting said chamber with the radiator to supply steam to said chamber at approximately radiator pressure, an outlet for steam at the upper end of said chamber, a valve regulating the flow of steam through said outlet, a bellows having one of its ends fixed at the lower end of said chamber, means to connect the interior of said bellows to the exterior of said chamber so that an increase in pressure in the interior of said chamber and radiator will contract said bellows, and relatively rigid connecting means between the upper end of said bellows and said valve so that contraction of said bellows will increase the flow of steam through said valve.

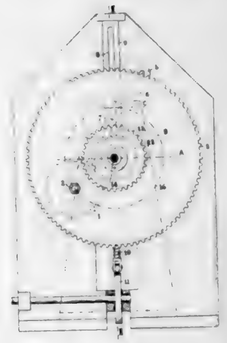
2,535,773
TERMINAL AND SEAL CONSTRUCTION FOR ELECTRIC LAMPS AND SIMILAR DEVICES
Joe Yoder, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application April 17, 1943, Serial No. 483,470
4 Claims. (Cl. 176—122)

1. In a fluorescent discharge device, the combination of a tubular envelope portion having a reentrantly inturned marginal portion, a cathode mount in the envelope including an end piece itself sealed to said inturned marginal portion of the envelope wall within the reentrant region and forming with said marginal portion a reentrant end wall for the envelope closing the end thereof, a coating of fluorescent material on the inner wall of said envelope, said coating extending at least right to the reentrant inturn in the envelope wall but terminating short



of the seal in said reentrant end wall between the end piece and the in-turned marginal portion of the envelope wall, and terminal means on said envelope at the end thereof and leaving the envelope wall exposed right to the said reentrant in-turn therein, said terminal means comprising contact-terminal posts for the cathode of the mount projecting endwise from the end of the envelope substantially beyond the said in-turn.

2,535,774
MECHANISM FOR CONVERTING A UNIFORM MOTION INTO A VARIABLE MOTION
Maurice François Armelin, Paris, France, assignor to Societe d'Etudes de Machines Speciales, Paris, France
Application June 21, 1949, Serial No. 100,402
In France April 15, 1949
2 Claims. (Cl. 74—394)



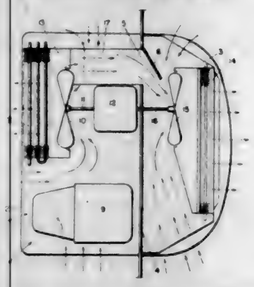
1. A mechanism for converting a uniform rotational motion into an algebraically variable rotational motion comprising a frame, a driving member rotatably mounted in said frame, a driven pinion mounted coaxially of said driving member for rotational motion relative thereto, a spindle mounted on said driving member and parallel with the axis of said driving member, a planetary pinion mounted on said spindle and meshing with said driven pinion, an elongated slide rigid with said planetary pinion, pin carrying means movably mounted on the frame, a pin secured on said means slidably and rotatably received in said slide and adapted to guide the same, actuating means for said pin carrying means with regard to the frame.

2,535,775

SELF-CONTAINED AIR CONDITIONING UNIT

Carlyle Martin Ashley, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application January 14, 1948, Serial No. 2,247
5 Claims. (Cl. 62—129)



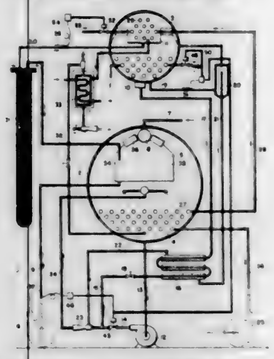
1. In a self-contained air conditioning unit, the combination of a condenser compartment, a condenser in said compartment, a fan in the compartment to pass exterior air through the condenser, a chamber disposed between the condenser and the condenser fan, air in said chamber being under compression created by the condenser fan, an evaporator compartment, an evaporator therein, a second fan in the evaporator compartment to pass room air through the evaporator, a duct extending within the condenser compartment connecting the chamber and the evaporator compartment, pressure of air in said chamber being sufficient to force air through the duct into the evaporator compartment, said second fan being located with respect to the outlet of said duct in a position to receive air passing through the duct.

2,535,776

ABSORPTION REFRIGERATION SYSTEM

Alexis A. Berestneff, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Original application July 13, 1946, Serial No. 683,387. Divided and this application May 27, 1948, Serial No. 29,526
3 Claims. (Cl. 62—5)



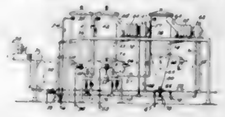
1. A spray arrangement which comprises a cylindrical member adapted to receive a fluid, a second cylindrical member surrounding said first member, the longitudinal axis of the first member being disposed in a plane above the plane of the longitudinal axis of the second member to provide space for the accumulation of fluid in said second member, said first member having a plurality of openings therein connecting the interior thereof with the interior of said second member, said second member having a plurality of nozzles connected with said second member adapted to discharge fluid in a series of substantially uniform sheet-like sprays, the openings in said first member being disposed a sufficient distance above the nozzles of said second member to permit fluid to accumulate in the base of said second member adjacent the nozzles thereby reducing the turbulence of fluid flow in the second member and its velocity of discharge from said nozzles.

2,535,777

PULP EVAPORATOR

Everett H. Bickley, Bala-Cynwyd, Pa.

Application April 12, 1946, Serial No. 661,623
2 Claims. (Cl. 159—17)



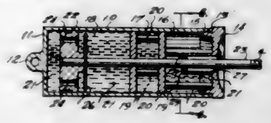
1. In an apparatus for evaporating tomato fluid, the combination of a plurality of evaporating kettles, conduit means interconnecting said kettles for transferring said liquid from one kettle to another in sequence relation from the bottom of one kettle to the top of the next kettle, a preheater connected to a source of tomato fluid, means for feeding said fluid from said preheater to the first kettle of said sequence, heating coils in the respective kettles, means including rotary compressors for respectively withdrawing vapors from said kettles and into the respective heating coils, an elongated steep-sided funnel in the bottom of the last sequence kettle for discharging the evaporated tomato pulp, and an agitator means mounted in said funnel.

2,535,778

HYDRAULIC CONTROL FOR MECHANISMS

William T. Blake, Fort Worth, Tex.

Application June 11, 1946, Serial No. 675,954
5 Claims. (Cl. 188—96)



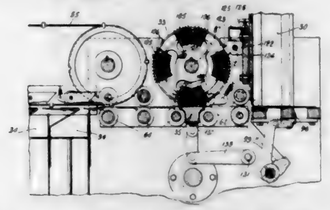
1. In a governing device for hydraulically controlled mechanisms, in combination with a cylinder integrally closed at one end and having a piston operating therein and a cap detachably secured to the open end of said cylinder, a plurality of partitions arranged in said cylinder transverse to the longitudinal axis thereof and spaced successively from said cap providing a sealed fluid chamber therein for said piston toward its closed end, a stem for said piston operatively arranged through said partitions and said cap and means comprising an annular well formed interiorly of said cap embracing said stem and having perforations in its inner end, said means being arranged to prevent escape of fluid below a predetermined level from said cylinder while admitting air thereinto in varying positions.

2,535,779

COLUMN SELECTING MEANS FOR CARD-SORTING MACHINES

Karl J. Braun, Glenbrook, Conn., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York

Original application November 25, 1944, Serial No. 565,108, now Patent No. 2,454,628, dated November 23, 1948. Divided and this application October 16, 1948, Serial No. 54,986
9 Claims. (Cl. 235—61.11)



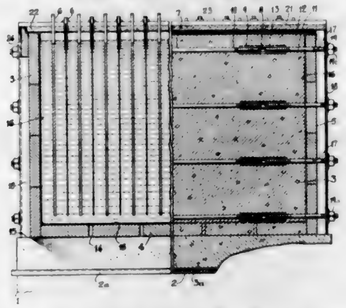
6. In a sorter, a rotatable sensing wheel including sensing pins normally extending in sensing position beyond the periphery of said wheel, a card supporting member having movements into and out of cooperative relation with said pins and provided with channels for receiving the pins when the same are extended and the wheel is rotated, an operating element for said wheel having means engageable on opposite sides thereof to move said wheel axially when said element is operated, a feed screw for operating said element, and connections between said feed screw and card supporting member for moving the latter out of cooperative relation with said pins when said screw is turned.

2,535,780

ELECTROLYTIC TANK CONSTRUCTION

Walter L. Brytczuk, Roselle Park, N. J., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York

Application November 9, 1946, Serial No. 709,046
3 Claims. (Cl. 206—2)



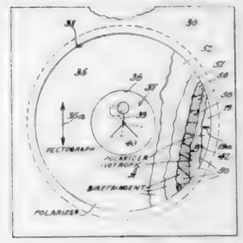
3. An electrolytic tank construction comprising, in combination, two or more substantially rectangular lead-lined compartments, each compartment having bottom, side and end walls, each compartment having a removable side wall in common with the adjacent compartment, the side walls being formed of concrete sufficiently rigid to support electrodes, a sill for each side wall providing shoulders projecting therebeyond on either side thereof and a support for each sill, rods terminating in couplings for holding removable stud bolts, said stud bolts projecting beyond the ends of the side walls, said bottom being removable and made of spaced wooden planks to permit seepage therethrough, the ends of said planks being supported by the shoulders of said sills, said end walls being made of wooden planks, and devices including said stud bolts for securing the end walls to the side walls, said side walls resting on said sills and any one of said bottom, end and side walls being removable individually without disturbing said other walls.

2,535,781

CHANGEABLE IMAGE AND COLOR DISPLAY DEVICE

Fford Burchell, New York, N. Y., assignor to Burchell-Holloway Corporation, New York, N. Y., a corporation of New York

Application April 12, 1946, Serial No. 661,532
1 Claim. (Cl. 40—130)



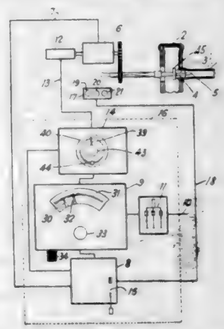
In combination a substantially circular sheet of substantially isotropic translucent material, a coextensive sheet of polarizing material having a concentrically arranged aperture attached thereto, a contrast vectograph secured in said aperture and birefringent material secured and positioned between said two sheets, said birefringent material being arranged in ring-like form about said aperture and consisting of contiguous segments of such birefringent material whose optical orientations are successively at greater angles with a predetermined direction.

2,535,782

APPARATUS FOR EXPANDING TUBES IN TUBE SEATS

Walter B. Carlson, London, England, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

Application August 19, 1948, Serial No. 45,088
In Great Britain August 28, 1947
11 Claims. (Cl. 153—82)



1. Tube expanding apparatus comprising a power device adapted to drive a roller tube ex-

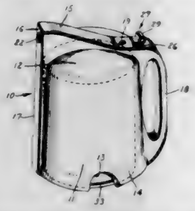
pander; means measuring mandrel movement axially relative to the body of the expander and adapted to control energization of said power device; and power measuring means associated with said power device and including means operable, responsive to an increase in power requirements of said device occurring when the tube has been expanded to nip the seat, to activate said mandrel movement measuring means to control energization of said power device; said mandrel movement measuring means being arranged to deenergize said device after a predetermined mandrel movement under the control of said mandrel movement measuring means.

2,535,783

CAN OPENER AND POURING HOLDER

Donald Lee Churchill and Donald L. Scott, Devon, Conn.

Application February 19, 1947, Serial No. 729,636
1 Claim. (Cl. 222—86)



In a can opener and pouring device, a molded plastic hollow body having a cylindrical side wall open through its lower end and a top wall integral with said side wall and forming a closure for the upper end thereof, said body adapted to be disposed over a can the contents of which are to be poured, a handle along the rearward portion of said side wall, said top wall thickened in its forward portion providing an extension at the upper end of the forward portion of said side wall, a pair of metal tubes rigidly engaged in said top wall and extending downwardly therefrom into the hollow of said body and arranged to be forced through the top of a can when the body is placed over such can, said tubes spaced apart and comprising a rear venting tube extending directly through said top wall and a forward pouring tube curved longitudinally and extending upwardly and forwardly through said thickened top wall portion and terminating flush with the forward face of said thickened top wall portion, a latch device comprising a flat spring strap on the inner side of the rear wall portion of said body and extending upwardly through said top wall and having its upper end terminating adjacent the upper end of said handle for manipulation by the thumb of a hand gripping said handle, and a lug on said latch device intermediate the ends thereof and adapted to snap under the upper bead of a can when said holder is fully assembled on the can.

2,535,784

PROCESS FOR PRODUCING MAHOGANY ACIDS AND MAHOGANY SOAPS

Charles A. Cohen, Roselle Park, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 3, 1946, Serial No. 713,843
6 Claims. (Cl. 260—504)

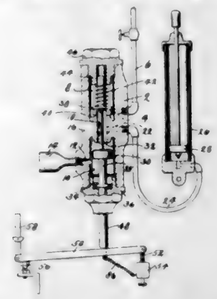
1. In the preparation of preferentially oil-soluble sulfonic acid soaps in which a hydrocarbon oil is treated with fuming sulfuric acid, the sludge separated, and the sour oil neutralized to form preferentially oil-soluble sulfonates, the improvement comprising contacting the sour oil with from 0.02 to 10% of a solid sorbent material, removing the sorbent material, neutralizing the oil and recovering preferentially oil-soluble sulfonic acid soaps.

2,535,785

FLUID OPERATED PRESS AND CONTROL THEREFOR

George Couri, Astoria, N. Y.

Application August 29, 1946, Serial No. 693,763
1 Claim. (Cl. 121—46.5)



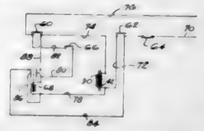
In a fluid operated press, the combination of a supply valve and an exhaust valve for controlling the application of power to the press, a solenoid having a core for controlling the operation of said valves, a rod carrying said valves, an arm engaging said rod and having one end attached to the core of said solenoid, its other end being pivoted, whereby energization of said solenoid will effect movement of said rod and valves to seat the exhaust valve and open the supply valve, the pivot for the arm comprising a fixed member, a pin passing loosely therethrough and pivotally attached to the end of the arm and a spring on said pin between the fixed member and the end of the arm, thereby to permit the pivoted end of the arm to yield upon seating of the exhaust valve and the solenoid core to complete its stroke.

2,535,786

FLUID OPERATED PRESS

George Couri, Astoria, N. Y.

Original application December 11, 1947, Serial No. 791,077. Divided and this application December 8, 1948, Serial No. 64,111
6 Claims. (Cl. 175—335)



1. In a control for electrically controlled fluid-operated presses the combination of an electric circuit for initiating closure of the press, a manual switch for closing said circuit, a solenoid energized by closure of said electric circuit, a second switch adapted to be closed a predetermined time after energization of said solenoid, a relay whose circuit is completed upon the closing of said second switch, a holding circuit for said relay which is completed upon closure of said relay, and a maintaining circuit for the solenoid which also is completed upon the said closure of the relay, said holding circuit and maintaining circuit remaining closed after said manual switch has been opened.

2,535,787

VISUAL INDICATING APPARATUS FOR DETERMINING CORRECTION OF POSTURAL FOOT ALIGNMENT

Reuben U. Darby, Middletown, Md.

Application May 29, 1948, Serial No. 30,175
15 Claims. (Cl. 33—174)

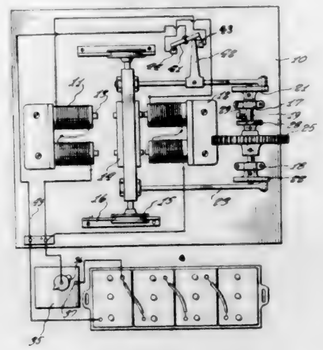
1. Apparatus for determining the degree of postural foot disorder, comprising: oppositely disposed stationary support-surfaces and an adjustable pivotally mounted intermediate support all in the same horizontal plane, for supporting a person standing thereon with normal stance with the sole of either foot on a said stationary surface while the sole of the other foot is on the adjustable intermediate support; a member providing a straight line-of-sight mounted in fixed relation relative to said adjustable support with the straight line-of-sight in position to confront and correspond with a straight line projecting downwardly from the knee through the foot of the limb of a person standing on the adjustable support; and actuating means for adjusting the intermediate support about its pivotal axis to align a predetermined portion of the foot with the straight line-of-sight.

2,535,788

ELECTROMAGNETIC MACHINE

David M. Davidoff, Brooklyn, N. Y.

Application November 26, 1949, Serial No. 129,582
1 Claim. (Cl. 172—126)



An electro-magnetic machine comprising a base, electro-magnetic units mounted on the base in spaced relationship with one another, an armature assembly having wheels on the opposite ends thereof, track means for supporting said wheels, said armature assembly moveable between the electro-magnetic units and adapted to be attracted by the same, journal brackets mounted on the base, a shaft journalled in said journal brackets, an output gear on the shaft, cranks disposed on the opposite ends of the shaft, crank rods connected respectively from the cranks through the armature assembly and extending respectively at the opposite sides of one of the electro-magnetic units, a ratchet gear mounted on the shaft, a pawl connected to the base and engaging with the ratchet gear, a reversing switch connected to one of the crank rods to be operated by the same, electric source means, a control switch and electric wiring means connected between the control switch, the electric source, the electro-magnets and the reversing switch.

2,535,789

TOILET SEAT HINGE AND STOP

George W. De Bell, East Chatham, N. Y., assignor to Beneke Corporation, Columbus, Miss., a corporation of Mississippi

Application December 30, 1947, Serial No. 794,513
2 Claims. (Cl. 4—236)

1. A mounting for a toilet seat comprising a pair of combined hinge and stop devices, each device having a combined hinge and shank portion, an elastic body in which said hinge and shank portion are embedded and from which they project, a section of increased diameter on said shank portion, said section serving to maintain said shank portion in position in said body under a compressive stress thereon, said elastic body having a bumper projection to maintain said seat in a raised position of equilibrium.

2,535,790

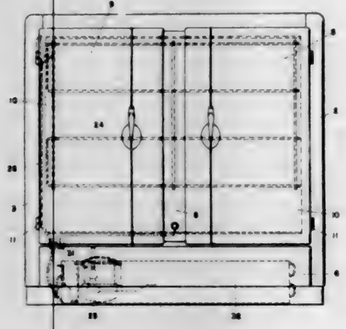
REMOVABLE REFRIGERATION UNIT WITH CABINET STRUCTURE

James L. Fletcher, Fayetteville, and Walter Peglow, Cazenovia, N. Y., and Thomas G. Crider, Lima, Ohio, assignors to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application November 30, 1946, Serial No. 713,308
3 Claims. (Cl. 62—117.2)

3. In a refrigerator cabinet, the combination of a shell, a liner spaced from the shell enclosing a storage compartment, insulation material disposed between the shell and the liner, said liner and shell having an opening therethrough permitting access to the storage compartment, a removable mullion extending from one side of the opening to the other and separating the opening into a plurality of similar openings, said mullion including a rear wall member, strap members secured to the rear wall member, said strap members having openings therein, fastening means extending through the openings in the strap members to secure the rear wall member to the liner, a front wall member, brackets adjacent the front wall member and the shell, and fastening means securing the brackets to the front wall member and to the shell, a heat exchanger in the storage compartment having

a length greater than the width of the opening therein, a machine compartment enclosed by the shell, elements of the refrigeration system disposed in the machine compartment, said ele-



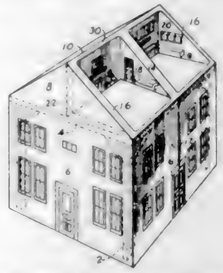
ments being connected to the heat exchanger in the storage compartment, removal of the mullion permitting removal of the heat exchanger and the elements of the refrigeration equipment as a unit.

2,535,791
LEVEL WITH MAGNETIC SECURING MEANS
Rothwell R. Fluke, Cleveland, Ohio, assignor to The Buckeye Plastic Corporation, Cleveland, Ohio, a corporation of Ohio
Application May 31, 1947, Serial No. 751,553
1 Claim. (Cl. 33—207)

A level provided intermediate its ends with plumb-and-level indicator devices and comprising an elongated member having longitudinal side surfaces each adapted to engage a work surface, one of said surfaces being formed from end to end thereof with a groove, said member at each side of one of the indicator devices being formed with a through opening, a permanent magnet within each opening intermediate the opposite ends thereof, plates formed of ferrous metal disposed within each opening and spaced by and engaging with the opposite sides of the adjacent magnet, and means for removably securing each magnet and the adjacent plates in one of said openings, said plates in each opening terminating at their opposite ends substantially flush with said side surfaces.

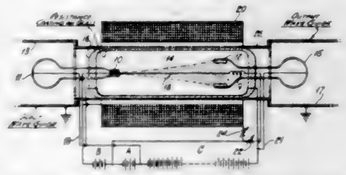
2,535,792
PLAYHOUSE AND TENT
Harold R. Goodale, Bristol, Conn.
Application June 26, 1948, Serial No. 35,365
10 Claims. (Cl. 135—1)

7. In a table supported tent, a tent enclosing sides of the table and having a roof portion provided with sloping walls extending to a ridge, a foldable supporting structure interposed between the table top and the roof, said structure comprising a vertical wall extending across the table and engaging the ridge, and triangular partitions adapted to fold against the vertical wall or to extend at right angles thereto, said vertical wall



and partitions being decorated to simulate the walls of a room, and one of the sloping walls having an opening between the partitions to expose the decorations and the top of the table.

2,535,793
MAGNETRON
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 8, 1946, Serial No. 639,736
24 Claims. (Cl. 179—171)



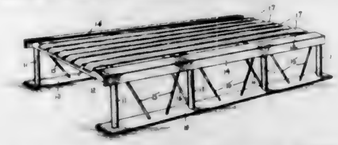
14. An amplifier comprising a large magnetron and a small magnetron located within a single evacuated envelope and spaced from each other along the axis of the amplifier, said magnetrons being similarly mounted relative to said axis, and means in circuit with said magnetrons for producing a potential gradient in the space between said magnetrons.

2,535,794
METHOD OF PREPARING FERROUS METAL OBJECTS FOR THE APPLICATION OF SYNTHETIC RESINS
Charles Henry Hempel, Manitowoc, Wis., assignor to Heresite & Chemical Company, a corporation of Wisconsin
No Drawing. Application January 24, 1947, Serial No. 724,248
8 Claims. (Cl. 148—6.2)

1. The method which comprises etching a ferrous metal object with an acid, removing the acid, dipping the object in a dilute solution of alkali metal dichromate, removing the object therefrom, washing the object while still wet from the dichromate solution and drying it and then baking an oil-free phenolic resin coating thereon.

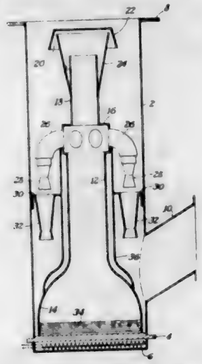
2,535,795
CATTLE GUARD
Leo A. Henningsen, Preston, Iowa
Application November 19, 1949, Serial No. 128,361
3 Claims. (Cl. 256—17)

1. In a cattle guard, two spaced apart flat elongated sill members, a plurality of support members spaced longitudinally on each of said sill members and vertically secured thereto; each of said support members on one of said sills transversely opposite a corresponding support on the other sill member, a plurality of stringer members disposed transversely to said sill members and each of said stringers respectively secured to the top of each pair of corresponding support members, a plurality of spaced and substantially parallel pipe members arranged transversely on said stringer members and secured thereto,



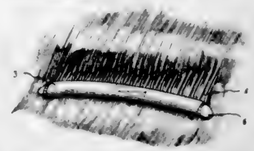
a pair of angle iron approach beams secured respectively to the ends of each stringer member so that one of said beams is substantially parallel to and above each of said sill members, a brace member between each two support members on each sill member; each of said braces disposed at an angle between the vertical and horizontal so that one end respectively is secured to one of said sill members and the other end respectively is secured to one of said beam members, and a plurality of brace members securing said stringers to each of said sill members.

2,535,796
VACUUM PUMP
Kenneth C. D. Hickman, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 16, 1946, Serial No. 641,478
3 Claims. (Cl. 230—101)



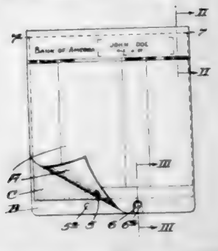
1. A high vacuum diffusion pump comprising, in combination, wall means forming a pump chamber having an inlet and outlet substantially spaced from said inlet along said chamber, chimney means within said chamber and generally coaxial with said chamber, said chimney means extending from the region of said outlet to the region of said inlet, means for supplying pumping vapors to said chimney means, an umbrella jet disposed in the region of said inlet and arranged to receive pumping vapors from said chimney means and discharge said vapors in an annular stream in said chamber in a direction away from said inlet, ejector nozzle means disposed about said chimney means on the outlet side of said umbrella jet and comprising a plurality of annularly arranged ejector nozzles arranged to receive pumping vapors from said chimney means and to discharge said vapors away from said inlet, and diffuser tube means annularly arranged about said chimney means, said diffuser tube means comprising a plate-like upper member bridging the space between said wall means and said chimney means around the circumferential extent of said chimney means, said upper member being marginally secured to said wall means and to said chimney means, said upper member having a plurality of openings therethrough in substantial alignment with said ejector nozzles, and a plurality of thin-walled metal diffuser tubes secured to said upper member and dependent therefrom, each said diffuser tube communicating with one said opening in said upper member, said diffuser tubes throughout their downward extent being spaced from said wall means and from said chimney means, the walls of each said diffuser tube being of substantially uniform thickness throughout the extent of said diffuser tube, said walls being convergent downwardly for a substantial distance from said upper member and thence divergent to the lower end of each said diffuser tube.

2,535,797
HAIR COMB
Vernon Isbell, Fort Worth, Tex.
Application October 17, 1946, Serial No. 703,770
2 Claims. (Cl. 132—20)



1. A hair comb comprising a pair of tooth holders, one of said tooth holders being slidably engaged in and shorter than the other, teeth projecting from each of said tooth holders from corresponding sides thereof and arranged in side-by-side relation, a screw longitudinally positioned through and threadedly engaging the inner said tooth holder, and caps secured on the ends of said screw and positioned to abut the ends of the outer said tooth holder.

2,535,798
MANIFOLD FORM
Clarence L. Johnston, Piedmont, Calif.
Application March 31, 1947, Serial No. 738,323
2 Claims. (Cl. 282—1)



1. A multiple form of the character described comprising an original form sheet, a duplicate form sheet, a carbon sheet interposed between

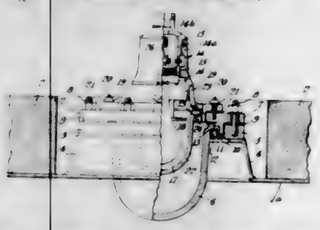
said sheets and being shorter than said sheets, means connecting the carbon and the form sheets at one end, said form sheets being thereby held in register at said end and at the sides but projecting beyond the shorter carbon sheet at the opposite end, a perforation and a slot formed in the projecting portion of one form sheet, said slot extending to said opposite end of said one form sheet, and a pair of perforations formed in the projecting portion of the other form sheet and registering with the perforation and the slot formed in the first named form sheet.

2,535,799

FILTER WITH EXPLOSION-PROOF ILLUMINATING DEVICE

John W. Kelley, Eastchester, and Hyman R. Davis, Jackson Heights, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application August 31, 1946, Serial No. 694,260
2 Claims. (Cl. 240—2)



1. In a rotary filter apparatus including a casing and a filter rotor therein mounted for rotation about a substantially horizontal axis, the upper portion of said casing being of inverted trough form and substantially concentric with the periphery of the rotor; an illuminating device including a lamp borne by said upper portion of the casing at one side of the axis of said rotor and in opposition to the upper portion of the periphery of the rotor and arranged to cast rays substantially radially thereon; said device comprising an inner and an outer dome of transparent material in spaced nested relation to each other, a mounting for the outer dome forming a gas-tight sealing connection between the base thereof and the casing, means detachably mounting the inner dome upon said mounting of the outer dome with the base of the inner dome accessible from without the filter casing, and a mounting supporting the lamp in said inner dome with the lamp projecting through the base thereof; and an observation port with a cover of transparent material, borne by said portion of the casing at said side of the rotor axis and in radial opposition to the periphery of the rotor for observation of the illuminated area of the rotor.

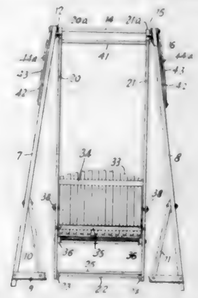
2,535,800

TWIN SEAT LAWN SWING

Charles J. Kliss, Garfield, N. J.

Application February 15, 1946, Serial No. 647,808
2 Claims. (Cl. 155—64)

1. A swing construction, comprising a pair of stationary frames, crosswise disposed brace bars connecting the upper ends of the frames, each frame including upright supporting bars, a hanger shaft disposed between the upper ends of the upright bars of each frame, the extremities of said shaft being formed with faces inclined to the axis of the shaft and diagonal plates welded to the extremities of said hanger shaft and bolted to the upper ends of the upright bars of each frame, hanger bars supported for swinging movement on each hanger shaft, a platform pivotally



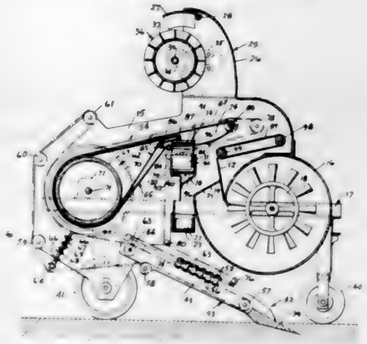
connecting the lower ends of the hanger bars to each other, and seats and seat back rests carried by each set of hanger bars above said platform.

2,535,801

POTATO SEPARATING MACHINE

Peter La Pointe, Brooklyn, N. Y.

Application May 13, 1947, Serial No. 747,645
9 Claims. (Cl. 209—470)



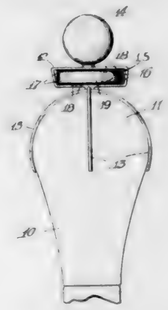
1. In a potato separating machine, air guiding means for guiding a stream of air in substantially a vertical direction and having a throat section in which the stream of air can float potatoes and in which heavy foreign materials such as rocks will fall down and also having an air expanding section in which the potatoes will not float but in which light foreign materials such as the potato tops, dirt and weeds will blow upwards, means for driving a current of air upwards through said air guiding means, a porous conveying system for connection with a digger for conveying potatoes and foreign materials in the soil as received from said digger through said air stream and having a carrying section extending substantially horizontally across said air expanding section so that said current of air may blow the light foreign materials upwards, and said porous conveying system also having an overhead potato holding conveyor section extending substantially horizontally across said throat section so that said stream of air may float potatoes upwards against said overhead potato holding conveyor section for conveying the potatoes through said air stream while the heavy foreign materials will fall downwards and become separated from the potatoes, and means for transferring the potatoes from said carrying section to said overhead potato holding conveyor section.

2,535,802

LAMP VAPORIZER

Philip Libson, Brooklyn, N. Y., assignor to Helena Rubinstein, Inc., New York, N. Y., a corporation of New York

Application May 22, 1948, Serial No. 28,673
7 Claims. (Cl. 21—120)



2. A vaporizer comprising a separate and independent cartridge adapted to receive a volatile substance, a resilient loop element, said cartridge being detachably received and supported within said loop element, a support having a portion adapted for direct contact and engagement with the globe of an incandescent light bulb, said loop element being secured to said support and holding said cartridge in proximity to said globe engaging portion of said support to establish heat exchange relation between said cartridge and said bulb when the latter is engaged by said support.

2,535,803

TELESCOPIC STANDARD OR ARM

Frants Heinrich Maack, Oclense, Denmark

Application July 26, 1947, Serial No. 763,787
In Denmark October 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 3, 1965
4 Claims. (Cl. 248—161)

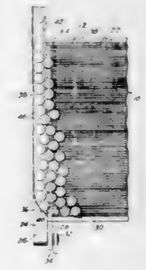
1. A telescopic standard comprising a plurality of tubes surrounding each other, the widest one being fastened to a receptacle forming the base of said standard, which extends from a central hole in the upper wall of said receptacle, said standard carrying at its upper end an electric current consuming device, needing an insulated current-feeding cable, the cable feeding said device being led through said standard and said hole into said receptacle, whence it can be connected to a source of electricity, said cable being insulated from but surrounded by a tightly wound helicoidal spring, one end of said spring being fastened to the upper end of the standard and the other end thereof being fastened inside of said receptacle laterally with respect to said central hole, the spring when the standard is pushed together coiling regularly to form a uniplanar helix, the axis of which is parallel to said standard, whilst maintaining said cable substantially immobile relative to said spring, whereby the utilized cable length remains constant.

2,535,804

FEEDER MEANS FOR CONVEYERS

Stanley Marvin, Oakland, and William H. Orth, San Carlos, Calif.; said Orth assignor, by mesne assignments, to Peerco Corporation, San Francisco, Calif., a corporation of California, and said Marvin assignor, by mesne assignments, to Daco Metal Products, Oakland, Calif., a corporation of California

Application August 27, 1948, Serial No. 46,513
4 Claims. (Cl. 198—106)



1. For a conveyor having fixed rails and movable rails alternately arranged with respect to said fixed rails, wherein said movable rails are adapted to move in a cyclic path above and forwardly and below and rearwardly of the fixed rails; a feeder system comprising movable support means arranged transversely of the conveyor and adjacent the feed end thereof, guide means associated with said support means to prevent articles freely carried by the latter from being accidentally displaced therefrom, said guide means including means for deflecting articles onto said conveyor, means operably connected to said support means to drive the same at a sufficient speed to maintain a number of articles adjacent the feed end of the conveyor in excess of the receiving capacity of said conveyor for said articles, and bevelled surfaces forming a portion of the upper edges of the movable rails of the conveyor at the feed end thereof.

2,535,805

WINDSHIELD WIPER ATTACHMENT

Charles A. McIntyre and William E. Barden, San Francisco, Calif.

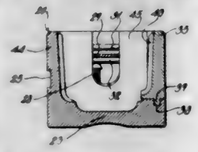
Application December 26, 1946, Serial No. 718,478
1 Claim. (Cl. 15—250.3)

A device of the character described for use on a windshield wiper embodying in its construction a perforated cylindrical container made of a spring material for retaining a cigarette, a flex-

ible bottom therein and a slot extending longitudinally through the wall of the said container

and flexible bottom for resiliently clamping the container to the said windshield wiper.

2,535,806
SHUTTLE
Thomas B. Mortimer, Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y., a corporation of New York
Application October 21, 1947, Serial No. 781,069
8 Claims. (Cl. 139—198)



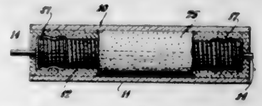
2. A shuttle having a back wall, a substantial section of said back wall of said shuttle constituting a removable and replaceable panel, and a key for holding said panel in proper position.

2,535,807
SIMULATED GEM
Louis Moyd, Clinton, Miss., assignor to Minerals Limited, Yonkers, N. Y., a corporation of New York
Application July 1, 1947, Serial No. 758,358
11 Claims. (Cl. 63—32)

1. An article of the class described comprising, a member of light-transmitting material having a generally domed surface, and a member of mica having a plurality of angularly disposed needle-like lines therein secured to said first member in spaced relationship with respect to a normally exposed surface thereof.

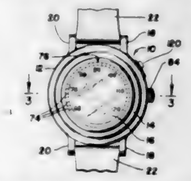
2,535,808
RESISTOR AND METHOD OF MAKING THE SAME
George J. Mucher, Brooklyn, N. Y., assignor to Clarostat Mfg. Co., Inc., Brooklyn, N. Y., a corporation of New York
Application May 13, 1948, Serial No. 26,763
3 Claims. (Cl. 201—67)

1. A method of making electrical resistances which includes providing a resistance element embracing a wire-wound flexible body, applying wire-carrying terminal caps to the ends thereof, indenting the outer surfaces of the caps to constrict the same into electrical contact with the adjacent windings to furnish a body assembly with the cap-carried wires extending outwardly and axially therefrom, employing a tube of inorganic insulating material having an overall length and internal diameter greater than the said assembly, introducing the latter into said



tube to cause the winding of said body to be spaced from the inner tube face and with the caps housed in the tube at points short of the ends therof, disposing the tube to extend in a non-horizontal position and introducing through the lower tube end a mass of insulating cement to a volume such that the spaces between the assembly and tube ends is completely filled and the cement extends into the cap indentations; the cap-carrying wires extending beyond the ends of the latter.

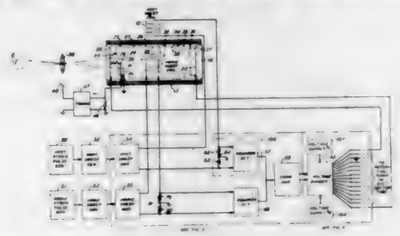
2,535,809
TIMING DEVICE
Otto H. Niendorff, Millburn, N. J.
Application June 14, 1949, Serial No. 98,957
10 Claims. (Cl. 58—57.5)



1. In a device of the character described, a case including a back wall that comprises a flexible diaphragm, said diaphragm being concave outwardly and including a plurality of concentric corrugations, a timing mechanism within the case, said case being adapted to be secured to a portion of the body, such as the wrist, of an individual, with at least a part of the back wall in direct contact with the individual's skin, and means responsive to operation of the timing mechanism for creating in the back wall uniformly periodic impacts of sufficient magnitude to be felt by the individual.

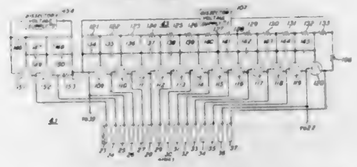
2,535,810
MINIMIZING ELECTRON OPTICAL DISTORTIONS IN ELECTRON CAMERA TUBES
Bernard M. Oliver, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 26, 1947, Serial No. 770,639
5 Claims. (Cl. 315—31)

1. In combination, a cathode ray television transmitter tube of the type containing a cathode and an anode and wherein a beam of relatively large cross-sectional area compared with the size of an elemental area of an object to be televised is formed, means for producing an electric field between said cathode and anode for accelerating said beam within said tube, means for forming a beam-focusing magnetic field, magnetic field-forming means for deflecting the beam in at least one coordinate direction, and means for greatly minimizing the image distortion nor-



mally produced in said tube comprising means for varying the strength of at least one of said fields by an amount proportional to the square of the total deflecting field.

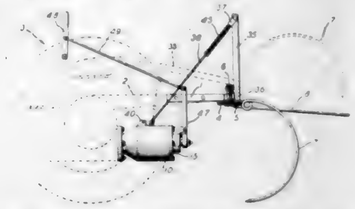
2,535,811
VOLTAGE DIVIDER CIRCUIT
Bernard M. Oliver, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application August 26, 1947, Serial No. 770,639. Divided and this application June 30, 1948, Serial No. 36,002
4 Claims. (Cl. 323—23)



1. A vacuum tube voltage divider circuit comprising a source of direct power, a plurality of serially connected resistors between the positive and negative terminals of said source, a plurality of individual condensers respectively connected across each of said resistors except the last one, a plurality of vacuum tubes, each having an anode, a cathode and a control element, having their anode-cathode paths connected in a series circuit between the terminals of said source of power, means for connecting the common terminal of each pair of adjacent resistors in said series to the control element of a corresponding one of said tubes, and means for taking output voltages from the cathodes of said tubes.

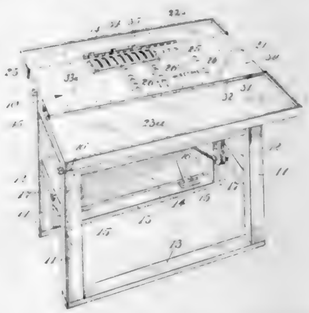
2,535,812
CLUTCH FOR TRACTOR MOUNTED HAYRAKES
Jesse B. Phillips, Fort Worth, Tex.
Application August 14, 1948, Serial No. 44,292
2 Claims. (Cl. 56—27)

1. A clutch for raising a hay rake pivotally mounted on a tractor having a power takeoff, the combination of a housing mounted over said power takeoff, a tubular shaft connected with said power takeoff and rotatably mounted within said housing, a cone secured on said tubular shaft, a cup and reel mounted for free rotation on said tubular shaft and adapted to engage said cone, a rod slidably positioned within the said tubular shaft and extending beyond the end of the said housing opposite the said power takeoff, a finger carried by said rod and adapted to frictionally engage the end of the said reel for engaging said cup with said cone, and a cable wound on said



reel and adapted to engage said rake for raising the latter.

2,535,813
MEANS FOR TUNING ACCORDIONS
Richard R. Rieschick, New York, N. Y.
Application July 2, 1948, Serial No. 36,591
4 Claims. (Cl. 84—456)

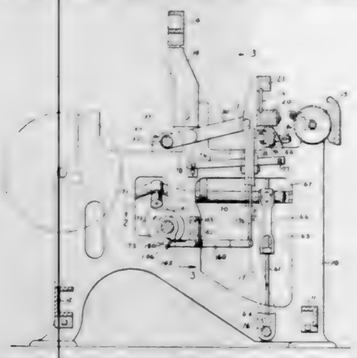


1. In an accordion tuner, the combination with a plurality of master scale reeds having air supply openings, of an accordion reed block supporting plate having a plurality of openings, slides for each of said openings to open or close the same, bellows for forcing air through any of said openings which are opened by the slides, said reed block supporting plate being in a plane to permit the free shifting of the reed block having the reed to be tested until its opening registers with the corresponding opening in said plate, whereby the registering reed block reed may be tuned to one of said master scale reeds.

2,535,814
PICKER STICK CHECK FOR LOOMS
Franklin A. Ritchie, Charlotte, N. C.
Application July 21, 1949, Serial No. 105,919
2 Claims. (Cl. 139—164)

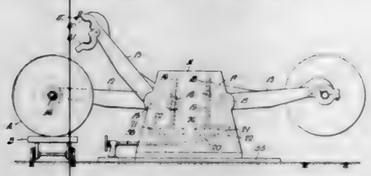
1. In a loom having a lay and a shuttle and a picker stick for projecting the shuttle across the lay, said loom also having a cam shaft and a cam wheel thereon for controlling movement of the picker stick for projecting the shuttle across the lay, check means for the shuttle comprising a stationary check shoe and a spring loaded check shoe disposed in spaced relation to each other adjacent the path of travel of the picker stick and being engageable thereby as the shuttle is thrown against the picker stick, releasing means for the spring loaded check shoe operable through the cam shaft, said releasing means comprising an oscillatable shaft mounted intermediate its ends on the lay of the loom, a finger on one end of said oscillatable shaft and means on

the spring loaded shoe for engaging said finger, a second cam wheel on said cam shaft and a mechanical connection between the second cam wheel on said shaft and the oscillatable shaft for transmitting movement to the oscillatable



shaft in timed relation to movement of the picker stick from between the spring loaded check shoe and the stationary check shoe for moving the spring loaded check shoe out of engagement with one side of the picker stick.

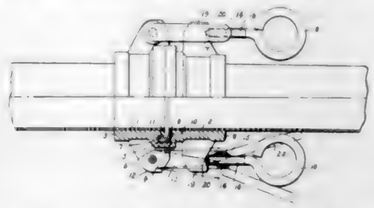
2,535,815
MILL ROLL STAND
Edward B. Seeger, Philadelphia, Pa., assignor to Samuel M. Langston Co., Camden, N. J., a corporation of New Jersey
Application October 15, 1947, Serial No. 779,982
1 Claim. (Cl. 242—58)



A mill roll stand including a spindle adapted to extend through and rotatably support a roll of sheet material, a pair of arms pivotally mounted to swing in spaced parallel planes, each arm having a bearing at its outer end for receiving and supporting an end of said spindle, a shaft extending parallel to said spindle, gearings connecting said shaft to said arms for swinging said arms to lift said spindle upon rotating said shaft, and a clutch connecting one of said gearings to said shaft, whereby upon releasing said clutch, opening the bearing for one arm and rotating said shaft, one arm may be swung up away from said spindle, and a roll may be moved onto the spindle supported by the other arm.

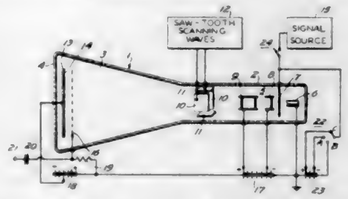
2,535,816
COUPLING FOR PIPES AND OTHER TUBULAR ELEMENTS
Miroslav Sigmund, Gosforth, England
Application December 9, 1947, Serial No. 790,465
In Great Britain September 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 27, 1965
3 Claims. (Cl. 285—172)

1. A coupling for connecting pipes and other tubular elements, comprising a taper-ended spigot, a socket having an internal axially directed annular recess in the bottom wall thereof, a sealing ring of impervious elastic material comprising an axially directed portion and a flange portion extending radially inwards from one end of said axially directed portion, said sealing ring being adapted to seat within the socket with the free end of the axially directed portion within the axially directed annular recess in the bottom wall of the socket and the



inwardly directed flange portion lying between the part of the bottom wall of the socket on the radially inner side of the axially directed annular recess and the extremity of the tapered end of the spigot, and means to urge the spigot into the socket, the arrangement being such that the tapered end of the spigot makes first contact with the sealing ring on a continuous band of its surface near the inner periphery of the radially inwardly projecting portion thereof.

2,535,817
ELECTROOPTICAL DARK TRACE STORAGE TUBE
Albert M. Skellett, Madison, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application October 23, 1948, Serial No. 56,135
27 Claims. (Cl. 315—12)



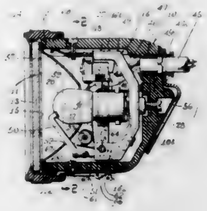
1. Electric signal storage apparatus, comprising, a signal storage surface composed at least in part of a stratum of material which changes its light transmission properties in localized areas when impinged upon by a signal-controlled beam of electromagnetic radiation, means to project said radiation on said surface within predetermined limits of radiation intensity corresponding to said signals to translate said signals into corresponding opacity conditions in said surface, and means to increase the intensity of said radiations to restore said surface to its original light transmission properties.

2,535,818
DOLL AND METHOD OF MAKING SAME
May L. Smalley, Malden, Mass.
Application September 25, 1945, Serial No. 618,511
4 Claims. (Cl. 46—158)

1. The method of making a doll, which comprises making a hollow fabric bag having a pair of leg portions, a body portion and a head portion, said head portion being open at its upper end, wrapping each of a pair of wires to form stuffing for said leg portions and forcing them thus wrapped into said bag leg portions with the upper ends of said wires within said body portion,

inserting a wire through said open upper end, said wire having a loop within said head portion and ends extending into said body portion and securing said last-mentioned ends to the upper ends of said leg wires, and completing the stuffing of said body and head portions.

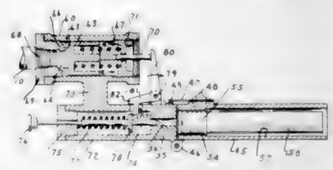
2,535,819
ELECTRIC SAFETY LAMP
Wilson Y. Stamper, Newark, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application December 13, 1945, Serial No. 634,824
3 Claims. (Cl. 240—11.3)



1. In an electric safety lamp including an electric light bulb; the combination of a frame; a mounting in which said electric light bulb is held, said mounting being pivoted to said frame; a contact spring mounted on said frame for engaging an end terminal of said bulb; a switch in the circuit of said lamp including cooperable contacts of which one is carried with said mounting; and means for engaging the glass envelope of said bulb and pressing the bulb yieldably against said contact spring so as to hold the contact spring flexed and said switch closed, said contact spring pivotally moving said mounting to open said switch upon a release of said engaging means from said bulb caused by a breakage of the envelope of the bulb.

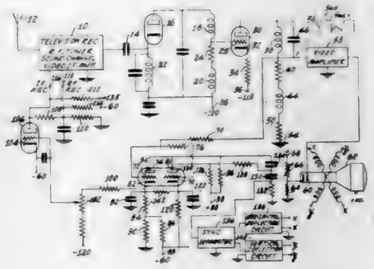
2,535,820
TRAIN FUSEE DISCHARGER
Hiram E. Temple, Los Angeles, Calif.
Application February 26, 1949, Serial No. 78,496
5 Claims. (Cl. 246—215)

1. In combination with an air signal line of a train subject to pressure fluctuations incident to normal signaling, means for imposing a superior pressure on said line greater than that im-



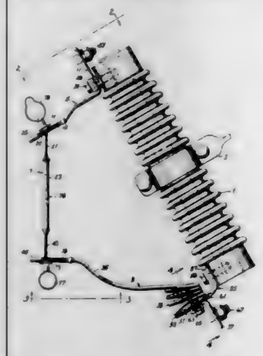
posed incident to normal signaling, and means responsive to the application of said superior pressure for explosively firing a flare.

2,535,821
AMPLITUDE AND FREQUENCY DISCRIMINATORY GATING CIRCUIT
Lucius P. Thomas, Jr., Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 22, 1949, Serial No. 117,190
14 Claims. (Cl. 178—7.3)



11. In a television receiver having an automatic gain control circuit and adapted to receive and demodulate high line frequency and low frame frequency sync signals and image signals received as a composite signal in which the sync signals are of greater amplitude than the image signals, a first and second variable threshold signal clipping circuits respectively designated as line and frame sync clippers, means for varying the clipping threshold on each of said clipping circuits in accordance with a respective control signal, a first and second time constant circuits having respective time constants comparable to but in excess of the line and frame sync signal periods, connections for applying demodulated composite signal to the inputs of said clipper circuits and said time constant circuits, means for developing a first clipper threshold control signal in accordance with the output of said first time constant circuit, means for developing a second clipper threshold control signal in accordance with the output of said second time constant circuit, means for supplementing the threshold control signal thereby applied to said second clipper with a fraction of the first clipper threshold control signal, integrating means connected with the output of said first time constant circuit for developing a fluctuating control voltage, and means for applying a version of said fluctuating control voltage as an automatic gain control for said receiver.

2,535,822
FUSE SWITCH
John L. Turner, East St. Louis, Ill., assignor to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application May 4, 1950, Serial No. 159,968
6 Claims. (Cl. 200—117)



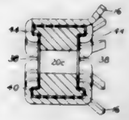
1. A fuse switch comprising an insulator, a terminal mounted on said insulator adapted for attachment of one lead of a fuse link, an electrically conductive resilient rod having a portion thereof coiled about an axis into a helically convoluted spring, the convolutions of which are axially displaced, and another portion thereof forming a cantilever arm extending outward from one end of the spring, the spring being secured at its other end to the insulator spaced from said terminal with the arm extending outward away from the insulator, said arm being adapted for attachment of the other lead of the fuse link to its free end when its free end is forced against the bias of the spring toward the terminal to hold the fuse link under tension between the terminal and the free end of the arm, the spring being secured to the insulator with its axis generally in the plane in which the arm moves when its free end is forced toward the terminal, so that when the free end of the arm is forced toward the terminal, the convolutions of the spring are forced together on one side of the spring axis and forced apart on the other.

2,535,823
PENCIL ATTACHMENT
Lloyd C. Van Benschoten, Schenectady, N. Y.
Application October 5, 1948, Serial No. 52,870
1 Claim. (Cl. 120—38)

A pencil attachment comprising a tubular body of even diameter throughout its length open at its front end for reception of a pencil and having its rear end opening for reception of an eraser, said body being formed with longitudinally extending circumferentially spaced slits leading from its rear end and defining fingers about the entire circumference of the rear end of the body, said body being formed of resilient material and the fingers being normally flared outwardly radially of the body and having their free rear end portions curved longitudinally to form outwardly bowed jaws having their free ends presented inwardly, an elongated tubular sleeve of less length than the body fitting snugly about said body and slidable longitudinally along the body into overlapping engagement with the fingers for applying compressing pressure and holding the jaws in gripping engagement with the eraser, and a plug fitting snugly in said body between the eraser and the rear end of the pencil and slidable longitudinally in the body, said plug having opposite end portions formed with circumferen-

tially extending ribs frictionally engaging the wall of the body and preventing free sliding of the plug through the body.

2,535,824
COMMUTATOR
Eric C. Wahlberg, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application November 20, 1946, Serial No. 711,105
4 Claims. (Cl. 171—321)

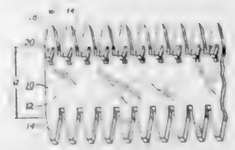


1. In a commutator, a metallic hub member having an integral axially extending peripheral flange at each end thereof, insulating material around said hub member having a substantially smooth cylindrical outer surface and being formed of a single seamless piece of material, the end portions of said insulating material originally extending axially beyond said flanges, insulating discs at the ends of said hub member and inwardly of said flanges, a plurality of commutator bars circumferentially spaced around said hub member and said insulating material, and an anchor tab extending from each end of each bar, said tabs being bent inwardly around and under said flanges with the axially extending end portions of said insulating material disposed between the tabs and the flanges and with said discs disposed between the ends of the tabs and said hub member.

2,535,825
COMMUTATOR
Eric C. Wahlberg, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application October 4, 1948, Serial No. 52,727
9 Claims. (Cl. 171—321)

1. In a commutator, a cylindrical metal hub, a pair of insulating members each having a cylindrical skirt portion and an end wall formed with a central aperture, said insulating members enclosing said hub to insulate the cylindrical and end surfaces thereof, a plurality of commutator bars circumferentially disposed

around the insulated hub, and anchor tabs extending radially inwardly from said bars for securing the latter, said members and said hub



in assembled relationship, the end walls of said members insulating said tabs from the end surfaces of the hub.

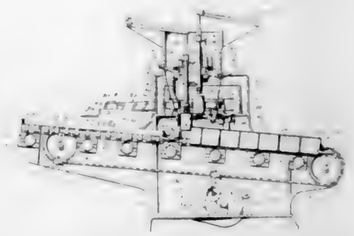
2,535,826
INDICATING DEVICE
George G. Allenbaugh, Wadsworth, Ohio, assignor to The Ohio Injector Company, Wadsworth, Ohio, a corporation of Ohio
Application April 5, 1946, Serial No. 659,686
5 Claims. (Cl. 33—125)

2. A device for indicating the cutting progress of the tool means of a machine tool as determined by the relative feeding movement between said tool means and a work piece, including an indicator gauge having a dial and an indicator hand for movement over said dial, an actuating rod longitudinally movable with respect to said gauge in response to said relative feeding movement, means for imparting movement to said hand in response to movement of said rod including a pair of levers one of which is normally in frictionally driven engagement with the other, a reciprocative member in operative association with said other lever, a rotative member having a cam step operatively engaging said reciprocative member for imparting reciprocative movement thereto and to said lever members under the influence of said rotative member, means for normally supporting said rod out of engagement with said rotative member, and means for causing said supporting means to engage said rod with said rotative member during said relative movement.

2,535,827
PROCESS FOR DEPOLYMERIZING POLYMERS OF 1,1-DICYANO ETHYLENE
Alan E. Ardis and Harry Gilbert, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 4, 1949, Serial No. 79,713
5 Claims. (Cl. 260—465.8)

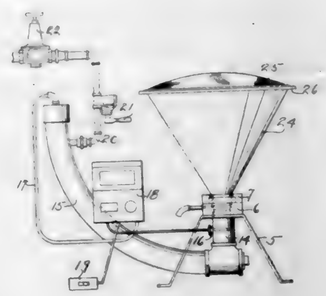
1. A method of preparing monomeric 1,1-dicyano ethylene which comprises heating the corresponding polymer at a temperature in excess of its decomposition point whereupon vapors are evolved, and condensing said vapors.

2,535,828
MACHINE FOR LOADING CANS IN TRAYS IN STAGGERED RELATION WITH DOUBLE ROW CAN FEED MEANS
Gerald L. Ardron, Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application May 19, 1945, Serial No. 594,674
35 Claims. (Cl. 226—15)



1. In apparatus of the character described wherein is provided a loading station, a tray supporting conveyor, means for advancing the conveyor and trays thereon step-by-step to successively present at said loading station tray spaces wherein to receive two rows of cans, means for guiding movement of the trays in a straight line throughout the loading thereof, means for receiving the cans as they are fed from a source of supply and assembling them in staggered double row relation at said loading station, and means for depositing the assembled staggered double rows of cans in the trays as they are advanced step-by-step double row step distances with the rows of each said assembled double row being staggered with relation one to the other and with rows previously deposited in the tray, thereby to arrange the can rows in compactly nested relation in the trays.

2,535,829
APPARATUS FOR PREHEATING MOLDING POWDERS
Ronald D. Beck, Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application September 16, 1946, Serial No. 697,391
1 Claim. (Cl. 34—57)



Means for uniformly heating loose molding powder comprising a horizontal plate, a pair

of straight parallel rails thereon, an annular series of ducts in the plate inclined both vertically and horizontally around a common central point and means for directing heated air upwardly therethrough, a discharge passageway in the plate spaced from the air ducts, a slide carriage, a vertical passageway through the carriage, a funnel mounted over the passageway, a screen cover for the funnel, and means for reciprocating the carriage on the plate between the rails to register with the ducts and with the discharge passageway.

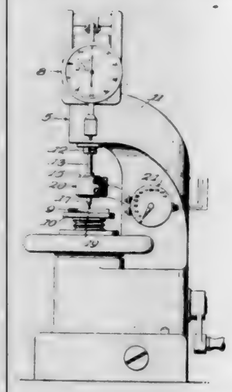
2,535,830

CURE TESTER FOR PLASTICS

Ronald D. Beck, Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application March 3, 1948, Serial No. 12,711

7 Claims. (Cl. 73—150)



6. A method of testing the extent of thermosetting in a partially thermoset plastic article which comprises placing the article on a fixed support, resting a weighted needle on the article, applying an even degree of heat to the needle sufficient to render plastic the unhardened portion of the article with which the needle is in contact, and measuring the penetration of the needle into the article.

2,535,831

SYNTHESIS OF THIOETHERS

Richmond T. Bell, Highland Park, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application November 9, 1945, Serial No. 627,780

1 Claim. (Cl. 260—609)

The method of preparing organic sulfides having two different hydrocarbon groups linked to sulfur comprising contacting mercaptans and unsaturated hydrocarbons in a ratio of two mols of mercaptans to 1–4 mols of unsaturated hydrocarbons with a Friedel-Crafts catalyst at a temperature of about 100°–200° C., for a period of time sufficient to cause the mercaptans and unsaturated hydrocarbons to react, said Friedel-Crafts catalyst being the principal and essential catalytic constituent of the reaction mixture, the hydrocarbon group in said mercaptan differing from the unsaturated hydrocarbon reacted therewith.

2,535,832

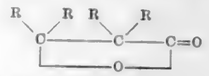
PREPARATION OF NOVEL ESTERS OF BETA-HYDROXY CARBOXYLIC ACIDS BY THE REACTION OF BETA-LACTONES WITH CHLOROPHENOLS

Warren L. Beears, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

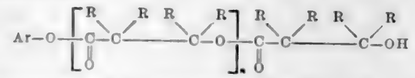
No Drawing. Application April 18, 1949, Serial No. 88,236

14 Claims. (Cl. 260—479)

1. The method which comprises reacting a chlorophenol with a beta-lactone of the formula



wherein each R is a member of the class consisting of hydrogen and alkyl radicals of fewer than 7 carbon atoms, in the presence of a strong mineral acid catalyst and recovering a compound of the formula



wherein Ar is a chlorophenyl radical, n is a numeral, including zero, less than two and each R has the same meaning as above.

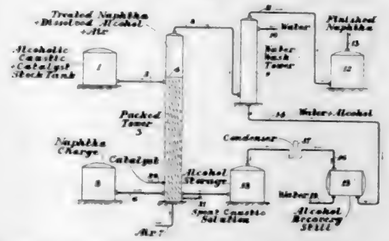
2,535,833

CATALYTIC OXIDATION OF MERCAPTANS

Donald C. Bond, Northbrook, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application April 25, 1946, Serial No. 664,821

3 Claims. (Cl. 196—29)



1. The method of sweetening hydrocarbon distillate containing mercaptans comprising, intimately contacting said distillate with a solution of alkali metal hydroxide in monohydric alcohol from the group consisting of methyl and ethyl alcohols, which solution contains less than 25 per cent by weight of water, between 10 and 25 per cent by weight of alkali metal hydroxide from the group consisting of sodium and potassium hydroxide, and about 0.1 to 3 per cent by weight of a phenolic substance capable of being oxidized to a quinone, while bubbling sufficient air through said distillate to effect sweetening thereof.

2,535,834

CLIP FOR HEARING AID CASES

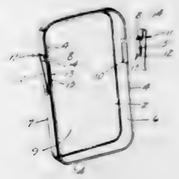
Elroy W. Born, Minneapolis, Minn., assignor to The Maico Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota

Application January 10, 1949 Serial No. 70,032

2 Claims. (Cl. 24—3)

1. In a device of the class described, cooperating front and rear casing sections, one of said

sections being provided with a notch in one side wall thereof, a recess on the interior of said wall adjacent the edge thereof extending downwardly from said notch, and a generally U-shaped spring clip, one leg of said clip being



provided with an angular portion intermediate its ends adapted to extend through the notch in said casing section, and an offset foot receivable in said recess, the other leg of said clip frictionally engaging the exterior wall of said section.

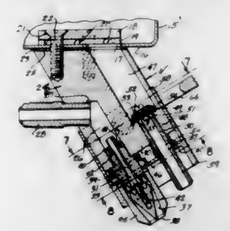
2,535,835

PROPORTIONAL FLOW VALVE

Archibald R. Burgess, St. Louis, Mo., assignor, by mesne assignments to Marion L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo.

Application October 30, 1946, Serial No. 706,532

4 Claims. (Cl. 225—21)



1. A valve for controlling the flow of fluids comprising a valve-body having a first passage extending longitudinally therethrough and being constricted intermediate its ends in the provision of a valve seat, a tubular spout slidably mounted in and projecting from one end of said first passage and being provided on its inner end with a closure element for valve-forming co-operation with the valve seat, spring means for normally urging the spout outwardly with respect to the valve-body and bringing the closure element into seated engagement with the valve seat, said valve-body having a second passage extending therethrough, a tubular member mounted in and projecting from one end of said second passage and being provided at its inner end with a valve seat, a stem mounted in and extending through said tubular member, a valve poppet fixed upon the upper end of said stem for co-operation with the valve seat, a discharge nozzle slidably mounted on and projecting downwardly from the tubular member and being connected to the stem for movement therewith, an abutment on the spout, an abutment on the discharge nozzle, and means engageable with the abutments for simultaneously lifting the spout, stem, and the associated closure element and poppet for opening both of said passages and permitting the flow of fluids therethrough.

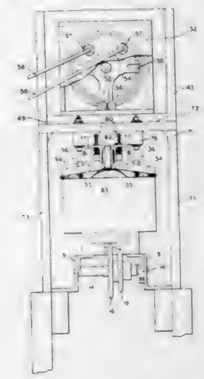
2,535,836

METHOD OF AND APPARATUS FOR SOLDERING THE SIDE SEAMS OF CAN BODIES

Allan M. Cameron and Scott R. Johnson, River Forest, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application October 8, 1947, Serial No. 778,546

2 Claims. (Cl. 219—6)



1. The method of forming a can body from a sheet metal blank consisting in applying to the blank at the portions thereof which are to be joined in a side seam a heat fusible bonding material consisting of solder flux and solder so that said material will be positioned wholly within the limits of the side seam and between the parts to be joined, passing the can body thus formed through an induction heating zone for melting the solder, holding the seam parts under pressure during the melting of the solder for distributing said solder throughout all parts of the seam and immediately passing the can body through a cooling zone and retaining the seam parts under pressure until the solder is cooled and set and the bond completed.

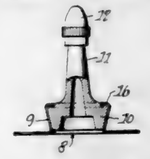
2,535,837

OILCAN SPOUT STRUCTURE AND METHOD OF ATTACHING THE SPOUT

John Coyle, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application April 28, 1944, Serial No. 533,152

2 Claims. (Cl. 222—566)



1. A container comprising a body portion, a closure end therefor, said closure end having an upwardly extending neck shaped to provide on the interior thereof a smooth slightly outwardly and upwardly flared seat, and a spout having a laterally extended supporting base including a top surface grooved to provide an upwardly directed edge shoulder and a peripheral surface which is firmly seated in and tapered to conform to the flared seat thereby to provide a tightly sealed connection between the spout and

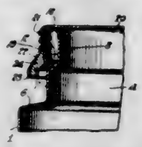
neck, said neck extending above said base and having its upper edge extremity bent inwardly over said shoulder and downwardly into said groove as a resilient flange presenting its downwardly bent end edge extremity against the bottom of the spout base groove in a direction generally paralleling the axis of said flared seat and serving to force and hold the base in tight sealing contact with the seat in the neck.

2. The method of attaching a spout having a downwardly tapered base to a can having a flared dispensing opening defining neck which comprises inserting the spout base in the neck with the upper edge extremity of the neck extending above the base, and curling the neck extension edge extremity inwardly over and downwardly against the base to engage said base in a direction generally paralleling the axis of the neck as an inherently resilient securing flange so as to force the base down tightly onto the flared neck and securely hold it in tight sealing contact in said neck.

2,535,838
METHOD OF MAKING A TABLET BOX
John Coyle, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 5, 1946, Serial No. 652,047
1 Claim. (Cl. 113—120)

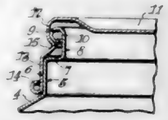
The method of making a tablet box consisting in die-drawing a metal blank to provide a body having front, rear and side walls of substantially uniform height, die-drawing a metal blank to form a cover having front, rear and side walls dimensioned so as to engage over the body of the box, slitting each side wall of the body adjacent the outer edge thereof and expanding the metal between the slit and the edge of the wall outwardly in the plane of the wall to form a rounded fulcrum portion extending above the edge and on which the cover rests when closed and rocks when pressed upon at the rear for unlatching the cover and connecting said cover to the body at the rear walls thereof by a floating hinge which permits the cover to be rocked on its fulcrums for unlatching the same.

2,535,839
METAL CONTAINER FOR FOOD PRODUCTS
John Coyle and William F. Punte, Baltimore, Md., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application February 5, 1947, Serial No. 726,710
1 Claim. (Cl. 220—46)



A metal container comprising a body, a bottom and a top, said top having a cylindrical neck providing an opening to the container, the upper end of said neck being rolled outwardly and thence downwardly to provide a cylindrical friction wall spaced away from said neck, the cylindrical friction wall at the lower end thereof being rolled inwardly to form a curl for strengthening said friction wall and so as to provide a friction seat on the outer face of the friction wall which is of uniform diameter all the way to the lower end of the wall, a closure member for said body having a depending skirt the upper portion of which is cylindrical and the lower portion of which tapers outwardly, a ring gasket engaging said tapered portion and held in contact therewith by curling the lower portion of said skirt inwardly into engagement with the inner face of the gasket, said gasket being dimensioned so as to extend above said tapered portion the cylindrical portion of said skirt being of less length than the cylindrical friction wall on the neck and being spaced from each other a distance less than the thickness of the gasket so that when the closure member is forced onto the container the gasket will wedge between said cylindrical portions so that said gasket when the closure member is fully seated will expand inwardly beneath the curled portion at the lower end of the friction wall sufficiently to firmly hold the closure member seated on the neck of the container.

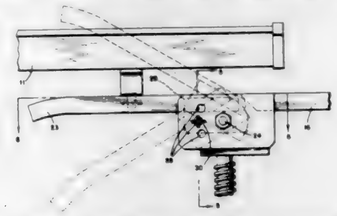
2,535,840
CONTAINER TOP AND CLOSURE THEREFOR
John Coyle, Baltimore, Md., and William F. Punte, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application April 19, 1948, Serial No. 21,828
2 Claims. (Cl. 220—42)



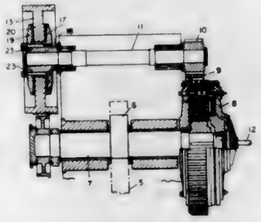
2. A metal container comprising a body and a top carried thereby and having centrally thereof a cylindrical wall, the outer surface of which forms a friction seat for a cover, said cylindrical wall at the upper end thereof being offset inwardly and thence rolled outwardly; said outwardly rolled portion being spaced away from said inwardly offset portion, and a cover having a depending flange rolled outwardly at its lower end into a strengthening bead, said flange adjacent said bead being cylindrical and dimensioned so as to make frictional engagement with said friction seat on the top, said cover above the cylindrical portion thereof being bent inwardly so as to lock beneath the outwardly rolled portion on said top; said cylindrical portion of the cover flange being of sufficient length so that during the placing of the cover on the top, said flange will make tight frictional contact with the cylindrical portion of the top before the inwardly bent portion of the cover flange passes the bead for securing the cover to the top.

2,535,841
DUMP TRUCK CHUTE SUPPORT
Anthony L. Cresci, Vineland, N. J.
Application December 11, 1945, Serial No. 634,321
1 Claim. (Cl. 298—7)

In combination with a tiltable dump body, a delivery opening therein, a guide track extending longitudinally beneath said body, a separate extension of said track aligned therewith, said track and said extension having aligned longitudinal slots, a chute having a swivel post beneath and normal to the floor of the chute, said post being positioned in and slidable along said slots, means on said post to prevent separation of the chute from said track and extension, said last mentioned means permitting limited vertical movement of the chute relative to said track and extension, means on said track extending transversely thereof for pivoting said extension thereto, and cooperating means on said track and said extension for selectively locking said extension in longitudinal alignment with said track or in a plurality of vertically angular relations with respect to said track either above or below the plane of said track.



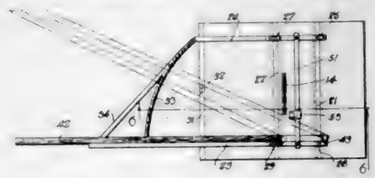
2,535,842
STALL RELIEF FOR FORGING PRESSES AND THE LIKE
William W. Criley, Shaker Heights, Ohio, assignor to The Ajax Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 11, 1945, Serial No. 572,307
6 Claims. (Cl. 74—44)



1. The combination with a mechanism of the character described, including a reciprocable ram adapted to apply pressure to a work-piece and a rotatable shaft having a crank connected with said ram for reciprocating the same, a second shaft intergeared with said crank shaft, an electric motor having an overload relay for driving said second shaft, and a flywheel on said second shaft, of a slip connection between the flywheel and second shaft, such connection being accurately adjusted for torque so that following stalling of said ram the flywheel continues rotation relative to the second shaft until after said overload relay has operated to deenergize the motor and is stopped suddenly thereafter, whereby said flywheel will be kicked into reverse rotation by the torque induced in said second shaft.

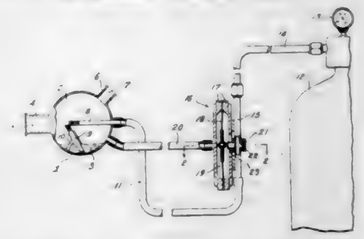
2,535,843
TRIM AND MITER GAUGE FOR SAW TABLES
Wilbur R. Curtis, Fresno, Calif.
Application June 29, 1948, Serial No. 35,832
5 Claims. (Cl. 143—169)

1. A trim and miter gauge for a rotary saw comprising parallel members adapted to fit parallel grooves in a table top of a rotary saw machine, frame pieces extending transversely of the parallel members and connected to the same, at least one of said frame pieces being formed to permit the passage of the rotary saw between



the ends of said frame piece, a scale extending between the frame pieces, a miter arm pivotally connected to one of the frame pieces and adjustable over the scale, and releasable means for fixing the miter arm to the scale.

2,535,844
ASPIRATOR FOR ADMINISTERING MEDICINE
John H. Emerson, Cambridge, Mass.
Application August 1, 1946, Serial No. 687,586
10 Claims. (Cl. 128—195)



10. Apparatus for use in administering a medicinal substance in atomized form, comprising means defining a chamber through which the patient inhales and exhales, the chamber having a constantly open aperture in its wall of a size sufficient to pass air in the amount requisite for breathing, but such that the pressure in the chamber decreases and increases slightly in response to inhalation and exhalation respectively, a nozzle arranged to discharge the atomized medicinal substance into the chamber, a constantly open unobstructed conduit for leading gas under pressure from the source of supply to the nozzle, and means responsive to exhalation pressure within the chamber to vent the gas on its way from the supply to the nozzle to the outer atmosphere.

2,535,845
POWDER DISPENSING CONTAINER WITH MEASURING TRAP
Henry A. Fink, Pelham Manor, N. Y., assignor to Continental Can Company Inc., New York, N. Y., a corporation of New York
Application July 31, 1945, Serial No. 607,967
1 Claim. (Cl. 222—455)

A dispensing container comprising a body, a dispensing nozzle carried thereby having a closed end with a dispensing opening adjacent one side of the nozzle, a closure cap rotatably attached to said nozzle and having an opening adapted to be moved into and out of register with the opening in the nozzle, a partition disposed in the nozzle and having a cylindrical portion extending the length of the nozzle and contacting therewith, means for securing said partition to the nozzle,

said partition having an inwardly projecting bead adjacent the upper end thereof and an inwardly and downwardly extending tapered portion having a measuring cup at the lower end thereof, said tapered portion having spaced openings adjacent the upper end thereof through which a segregated portion of powder passes when the container is inverted, said partition and said cup being formed integrally with the partition merging into the wall of the cup so as to provide a smooth unobstructed surface over which the segregated powder freely flows into the cup when the container is righted, a collecting wall disposed

between the partition and the end of the nozzle, said collecting wall being supported on said bead at the upper end of the partition, said collecting wall terminating at its lower end in a cylindrical portion of slightly larger diameter than the cup and positioned directly above said partition between the openings therethrough and the cup for directing the segregated portion of powder onto the partition and into the cup when the container is righted, said cylindrical portion of the collecting wall being adapted to receive and direct the powder collecting in the cup through the dispensing opening when the container is again inverted.

2,535,846

TREATMENT OF MATERIALS CONSISTING WHOLLY OR PARTLY OF WOOL

Robinson Percy Foulds, Manchester, England, assignor to Tootal Broadhurst Lee Company Limited, Manchester, England, a British company

No Drawing. Application September 20, 1949, Serial No. 116,855. In Great Britain September 29, 1948

7 Claims. (Cl. 8—128)

1. A process of treating wool with chlorine which comprises placing it in contact with solid bleaching powder.

2,535,847

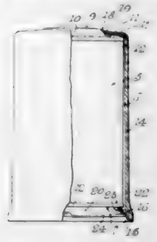
POWDER DISPENSING CAN AND HOLDER THEREFOR

Alfred F. Fukal, Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application September 19, 1945, Serial No. 617,327

2 Claims. (Cl. 222—183)

1. A container structure for containing and dispensing powdery substances comprising, in combination, a powder dispensing can having a central raised portion at one end thereof equipped with at least one powder dispensing aperture, and a holder for the can having an opening in one end through which to removably receive the can and an inwardly directed flange at its other end overhanging said can end and having an opening therein through which the central raised portion of the can projects, said flange engaging in sealing contact with said can end about said central raised portion for preventing passage of powdery substance between said flange and said can end and into the space between the can and the holder, said holder being formed of a plastic providing inherent resiliency in said flange, and a closure member threadably mounted in the can receiving end of the holder and comprising a thin



convex shell having a resilient can end abutting annulus formed directly thereon and disposed to engage the can and maintain a resilient contact between said flange and said one can end and also a surrounding flange shaped to present a single outwardly directed holder and engaging thread.

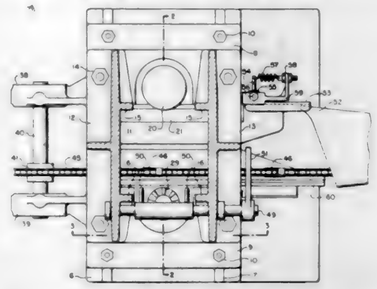
2,535,848

FEEDER FOR COLLAPSED CAN BODIES

William Furminger, Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application January 7, 1946, Serial No. 639,556

4 Claims. (Cl. 214—8.5)



1. A machine for feeding collapsed can bodies comprising a chute for holding a vertical stack of horizontally arranged can bodies, an outwardly sloping abutment underlying one side wall of the chute, an inwardly sloping cone underlying the opposite side wall of the chute and spaced from the abutment less than the width of the can body, means for rotating the cone, a horizontal rail spaced beneath the abutment, a second rail beneath the cone and means for conveying can bodies along said rails.

2,535,849

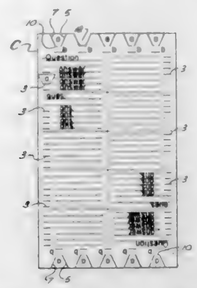
EDUCATIONAL DEVICE

Milton C. Grace, New Orleans, La.

Application May 28, 1946, Serial No. 672,755

1 Claim. (Cl. 35—9)

In a device of the class described, a card having a plurality of inwardly directed marginal cuts on its edges defining pointed removable tabs, said card having on one face a plurality of questions and a plurality of selective answers associated with each question, each of said answers associated with a through slot in the card of a length

to permit the insertion of a severed marginal tab and to frictionally engage and hold said tab substantially perpendicular to the plane of the card, with portions extending on both sides of the card, and indicia on the back face of the card associ-

ated with slots adjacent correct answers only, whereby answers selected on the face of the card by attachment of tabs through associated slots may be readily compared with the back of the card to ascertain the correctness of the selected answers.

2,535,850

RADIO ANTENNA APPARATUS

Laurens Hammond, Chicago, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware

Application June 24, 1949, Serial No. 101,195

2 Claims. (Cl. 250—33.51)

1. An antenna structure for high frequency radio receivers comprising a support, an arm extending from said support in a direction having a substantial horizontal component, a first reversible motor carried by said support and connected to said arm to swing the latter about a vertical axis through substantially one complete revolution, an antenna, a second reversible motor secured to the outer end of said arm and connected to the antenna to rotate the latter about a vertical axis, and manually operable remote switch means to control the operation of said motors, whereby the antenna may be oriented by operation of either motor and may be moved in a translatory manner by simultaneous operation of both of said motors in opposite directions at the same speed.

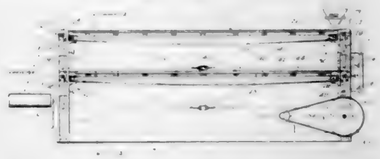
2,535,851

CLOVER SEED CLEANING MILL

Owen L. Harrison and Jacob Hart, Milledgeville, Ill.

Application May 29, 1947, Serial No. 751,352

5 Claims. (Cl. 209—114)



5. A mill for separating clover seed from buckhorn seed comprising a rigid supporting frame, a traveling seed conveyor apron having a light nap upon its seed carrying surface, means supporting said apron in a transversely inclined position on said rigid frame, the apron having its longitudinal side edges in substantially horizontal planes, the transverse angle of inclination of said apron being less than the angle of repose of the clover seed, a flat smooth table rigidly mounted in a transversely inclined position beneath the apron and frictionally contacting the underface of the apron throughout its length and transverse area, means for feeding a mixture of seed to be separated to the apron adjacent the uppermost edge of the apron, and means for vibrating the apron in a longitudinal direction relative to and independently of the frame to induce the clover seed to roll down the transverse incline of the apron through the nap thereof and to impel the buckhorn seed longitudinally of the apron for discharge at the end of the apron.

2,535,852

ADHESIVE COMPOSITION COMPRISING A ROSIN ALCOHOL AND A BUTADIENE-ACRYLONITRILE COPOLYMER

Arch L. Hatfield and Harold P. Owen, Maple Heights, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application July 7, 1950, Serial No. 172,616

4 Claims. (Cl. 260—27)

1. An adhesive composition comprising an aqueous dispersion of the polymeric product of a butadiene-1,3 hydrocarbon and an acrylic nitrile, said polymeric product being characterized by possessing a molecular weight below 100,000 and a Mooney viscosity, as determined by means of the Mooney viscosimeter using the 1.5'' rotor after 4 minutes at 212° F., between 10 and 35, and dispersed in said aqueous dispersion from 2 to 50% by weight based on the weight of said polymeric product of a rosin alcohol.

2,535,853

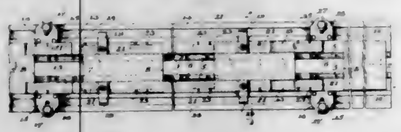
BLANK FEEDING MECHANISM FOR CAN MAKING MACHINES

Louis Hermani, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application September 12, 1946, Serial No. 696,527

3 Claims. (Cl. 198—41)

1. A feeding mechanism for metal blanks comprising a bed having track bars along which a blank may be moved, reciprocating feed bars, feed dogs carried thereby and engaging successive blanks for moving the same along said bed from station to station, non-magnetic bars disposed

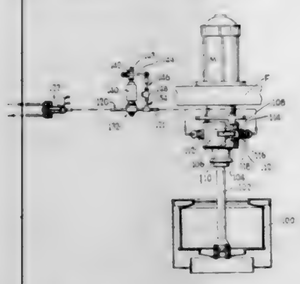
above said bed and extending lengthwise thereof from one station to another, permanent magnets disposed in said non-magnetic bars and spaced at distances less than the length of the

blanks whereby said blanks as they are fed along the bed will be lifted therefrom by the magnets into engagement with the non-magnetic track bars and moved along the same by the feed dogs while suspended free from contact with said bed.

2,535,854

FRICTION BRAKE CONTROL SYSTEM FOR CENTRIFUGAL MACHINES OR THE LIKE

Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, Hamilton, Ohio, a corporation of Utah

Application August 21, 1942, Serial No. 455,678
21 Claims. (Cl. 188—151)



1. A braking system comprising a friction brake, an air cylinder to apply the brake, and means for supplying compressed air to said cylinder, wherein said means includes a variable pressure-regulating valve operative to establish a predetermined initial pressure in said cylinder, together with an air chamber operative upon an increase of pressure therein to increase the pressure established by said valve, and means including a bleeder hole for gradually transmitting pressure acting upon said cylinder into said chamber.

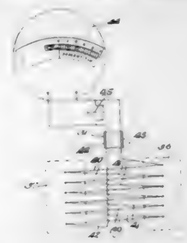
2,535,855

SOLDER ANALYZER

Francis L. Kurek, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application June 15, 1945, Serial No. 599,738
11 Claims. (Cl. 73—17)

3. An apparatus for use in determining the constitution of a material having a transformation point of temperature, comprising a support having two receptacles, one said receptacle holding a predetermined amount of a reference material having a transformation point near the first said transformation point, the other receptacle being adapted for holding a predetermined amount of the material to be tested and circuit means including devices responsive to the prevailing temperatures in said receptacles for delivering a current proportioned to the temperature difference between said reference material and said



material to be tested, and also including a device for indicating the prevailing current flow.

2,535,856

ADAPTER PLUG FOR CHEMICAL VESSELS

Walter O. Luertzing, Vineland, N. J., assignor to Lurex Manufacturing Company, Vineland, N. J., a corporation of New Jersey

Application March 24, 1948, Serial No. 16,712
6 Claims. (Cl. 73—343)

1. An adapter for use in chemical apparatus which comprises a tubular glass body having a circumferential enlargement at one end, the enlargement having a zone facing outwardly, which has a ground surface of substantially spherical curvature, the passage through the body having a ground surface and being of tapering diameter with its smallest diameter substantially at the outer end of the enlargement.

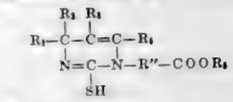
2,535,857

2-MERCAPTO-3,6-DIHYDROPYRIMIDINE-3-MONOCARBOXYLIC ACIDS AND ESTERS OF THESE ACIDS

Roger A. Mathes and Floyd D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,556
13 Claims. (Cl. 260—256.5)

1. A compound having the formula:



where R_1, R_2, R_3 and R_5 are members selected from the group consisting of hydrogen and monovalent saturated aliphatic hydrocarbon and monovalent aromatic hydrocarbon radicals, R_4 is a hydrocarbon radical selected from the group consisting of monovalent saturated aliphatic hydrocarbon and monovalent aromatic hydrocarbon radicals and R'' is a divalent hydrocarbon radical selected from the group consisting of divalent saturated aliphatic hydrocarbon and divalent aromatic hydrocarbon radicals.

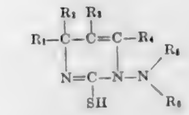
2,535,858

2-MERCAPTO-3-AMINO-3,6-DIHYDRO-PYRIMIDINES

Roger A. Mathes and Floyd D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,557
7 Claims. (Cl. 260—256.4)

1. A 2-mercapto-3-amino-3,6-dihydropyrimidine having the formula



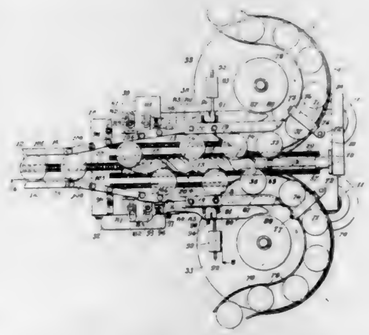
where R_1, R_2, R_3, R_5 and R_6 are members of the class consisting of hydrogen and saturated aliphatic and aromatic hydrocarbon radicals and R_4 is a hydrocarbon radical selected from the class consisting of saturated aliphatic hydrocarbon and aromatic hydrocarbon radicals.

2,535,859

TIMING DEVICE FOR FEEDING ARTICLES FROM MULTIPLE TO SINGLE ROWS

Robert M. McPherson, San Leandro, Calif., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application January 5, 1946, Serial No. 639,481
9 Claims. (Cl. 198—32)



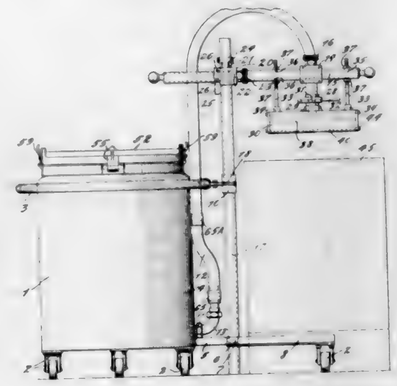
9. In a dual timing machine, a substantially horizontal timing spiral, means for rotating the spiral, feed conveyors upon opposite sides of said spiral and parallel therewith, means for delivering cans to said conveyors from separate sources and in the general direction of the length of said spiral and to engage at both sides of said spiral, means for driving said conveyors at a greater speed than the forward movement of the convolutions of the spiral, center conveyor means at the delivery end of the spiral for receiving the cans and delivering the same to another station substantially along the line of the axis of the timing spiral, all of said conveyors being disposed to operate in the same direction and approximately the same plane, the convolutions of the spiral being such as to first retard the forward movement of the cans and then permit acceleration of the same whereby the can will be delivered to said receiving means alternately from opposite sides of said spiral and at substantially the speed of said receiving means, and there being included means rotatably supporting the spiral at its receiving end only thereby to leave its delivery end free to deposit cans centrally onto said center conveyor, said spiral having a reduced root diameter at its delivery end to facilitate delivery of cans onto said center conveyor.

2,535,860

PORTABLE ICER

Curt Michaelis, Weehawken, N. J., and Kurt Preuss, Forest Hills, N. Y., assignors to Curt Michaelis doing business as Basic Foods Company, Union City, N. J.

Application March 27, 1947, Serial No. 737,584
2 Claims. (Cl. 91—3)

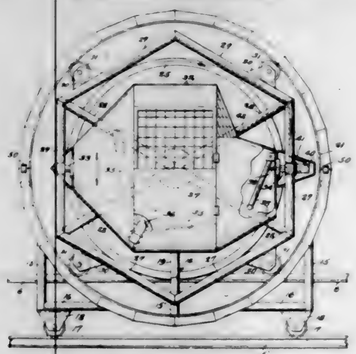


1. A substantially completely self-contained portable icer to be utilized in conjunction with a conveyor structure carrying products to be iced, comprising a tank having a plurality of compartments, means in one of said compartments for increasing air pressure, means for regulating said air pressure, an icing tank situated in another of said compartments, interconnecting pipes to supply said icing tank with air pressure from said means for increasing said air pressure, an icing head, interconnecting pipes for supplying said icing head with icing from said icing tank, a vertical supporting post secured to said tank, a horizontal supporting arm secured to said vertical supporting post, said icing head being secured to said horizontal supporting arm, means for fixing said horizontal supporting arm in a plurality of vertical positions relative to said vertical supporting post and means for fixing said horizontal supporting arm horizontally at a plurality of points along its length to said vertical post and at a plurality of positions angularly about said vertical post.

2,535,861
STABILIZATION OF MONOMERIC 1,1-DICYANO ETHYLENE
Floyd F. Miller, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application May 17, 1949, Serial No. 93,815
2 Claims. (Cl. 260—465.8)

1. A composition comprising monomeric 1,1-dicyano ethylene stabilized with sulfur dioxide.

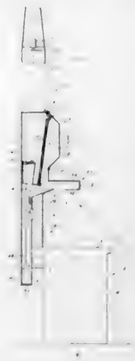
2,535,862
VERTICAL AND HORIZONTAL AXES ROUNDABOUT
Bernard B. Pewitt, Chattanooga, Tenn.
Application June 12, 1947, Serial No. 754,168
4 Claims. (Cl. 272—36)



2. In a pleasure railway, outer and inner concentric tracks, a central support, arms radiating from the support, main car frames mounted for movement over the outer track, means for moving the main car frames over the outer track, inner car frames mounted for rotary movement in a vertical plane, disposed within the main car frames, horizontal shafts extending from the inner car frames, wheels mounted on the horizontal shafts, said wheels moving over the inner track, cars mounted for pivotal movement within the inner car frames, and occupant-controlled clutch means for connecting the wheels and the shafts, rotating the inner car frames end over end within the main car frames.

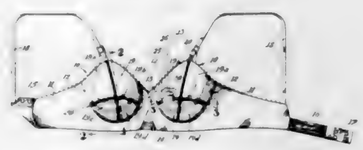
2,535,863
VENTILATING DEVICE FOR A KITCHEN AND A KITCHEN STOVE
William A. Pledger, San Francisco, Calif.
Application September 3, 1946, Serial No. 694,566
5 Claims. (Cl. 126—301)

1. The combination of a cooking stove having an oven, with a ventilating device comprising means forming a chamber located above said stove; a filter arranged in said chamber and dividing the same into front and rear compartments; an intake spout extending above said stove and communicating with the said front compartment, said spout being adapted to draw air and fumes from the top of stove; means connecting the oven with the front compartment for directing fumes and products of combustion from said oven; said device having a passage for directing room air above said device downwardly and upwardly to the front compartment; said filter adapted to condense grease and oil from the air passing from the front compartment through the filter and into the rear compartment; a collector plate adapted to collect grease and oil condensed by the filter and settled on



the inner walls of the front compartment; means for drawing air away from the rear compartment; and an automatic safety vent which permits air and fumes to by-pass said filter when the means for drawing air are inoperative.

2,535,864
GARMENT
Henry M. Plehn, New York, N. Y.
Application January 28, 1950, Serial No. 141,126
8 Claims. (Cl. 2—42)

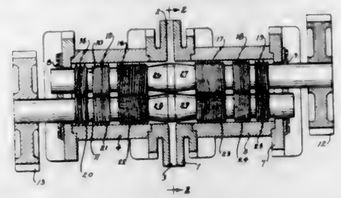


1. A garment comprising a body encircling band and a pair of breast pockets, each of said breast pockets comprising a plurality of layers of nesting, cup-shaped, pre-formed soft, pliable, fabric material elements having a felt-like body, whereby the whole of the contour of each of such breast pockets is permanently and effectively maintained when the garment is in place upon the body of the wearer, and which breast pockets maintain their cup-shape and pliable, felt like body after repeated laundering of the garment in hot water.

2,535,865
EXTRUSION PRESS
Gaëtan Antoine Poncelet, Brussels-Ixelles, Belgium, assignor to Geoffroy Charles Gustave Klein Weert, Netherlands
Application December 30, 1947, Serial No. 794,486
In Belgium December 21, 1946
5 Claims. (Cl. 18—12)

1. An extrusion press comprising a housing, at least one pair of threaded spindles rotatably mounted in said housing, each spindle having at least one left-handed and at least one right-handed threaded portion, the threaded portions of one spindle of a pair meshing with the correspondingly located threaded portions of the

other spindle of the same pair, at least one discharge aperture in the housing located in a plane between the left-handed and the right-handed threaded portions, and a non-threaded portion



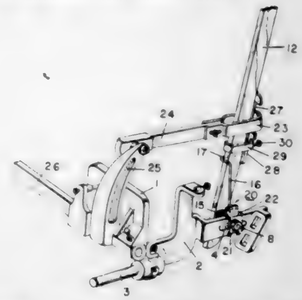
on each of the spindles between the left-handed and the right-handed threaded portions, a central compression chamber being formed between said non-threaded portions and the interior wall of the housing.

2,535,866
ARTICLE DIVIDER AND DELIVERING DEVICE
Fred Rasmussen, Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 13, 1949, Serial No. 98,689
7 Claims. (Cl. 198—66)

1. An article divider comprising an article conveyor having at spaced intervals article carrying devices, conveying chutes spaced at intervals along the conveyor for receiving articles from said conveyor, devices independent of the article conveyor traveling in timing with the conveyor for discharging articles from the conveyor into the chutes and cam plates associated with said chutes and operating selectively on said discharge devices for discharging the articles into selective chutes.

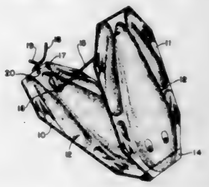
2,535,867
RETURN DEVICE FOR PICKER STICKS
Grover B. Reel, Shelby, N. C.
Application December 8, 1949, Serial No. 131,820
6 Claims. (Cl. 139—149)

1. In picking mechanism for looms, the combination with a picker foot having an opening, a pivot stud extending through said opening, a clamping nut for securing said stud in position, and a picker stick pivotally mounted on said stud and spaced from said foot, of a spring coiled around said stud between said stick and foot, said spring having at one end an arm engaging over the edge of the picker stick, and means for



anchoring the other end of said spring to said picker foot.

2,535,868
JUMPING FROG TOY
Roland Q. Roberts, Chicago, Ill.
Application August 13, 1946, Serial No. 690,232
2 Claims. (Cl. 46—129)

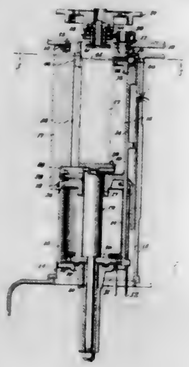


1. A jumping frog toy comprising a pair of plates each of which is impressed on its obverse and reverse faces with the figure of a frog appearing as if looking down upon the back of the figure, the plates being hingedly connected at one end for relative swinging movement to superimpose one upon the other, and an elastic band terminally anchored one end to each of the plates at points lying in the longitudinal center lines of the latter but remote from the hinged connection, whereby, when the plates are swung into superimposition with the elastic band exterior thereto, the band will be tensioned around the hinged ends so that, if one plate be disposed flat on a supporting surface with the other end restrained, the other plate when released will be swung around on the hinged connection to finally strike the supporting surface with an impact sufficient to cast both plates in the air and give the impression of the figure jumping.

2,535,869
THIOUREA IMPREGNATED SEALING COMPOUND
Julius L. Schneider, Chicago, and Raymond J. Evans, Bensenville, Ill., assignors to Continental Can Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 5, 1946, Serial No. 674,646
8 Claims. (Cl. 260—17.4)

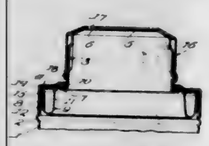
1. A can sealing composition for inhibiting corrosion comprising a rubbery hydrocarbon plastic sealing compound insoluble in water containing sufficient fibrous porous cellulosic absorbent uniformly distributed therein to be partially exposed at its surface when spread, said absorbent being impregnated with thiourea.

2,535,870
SQUARE CAN VACUUM CLOSING MACHINE
Matthew M. Sedwick, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 31, 1946, Serial No. 687,244
9 Claims. (Cl. 226—82.4)



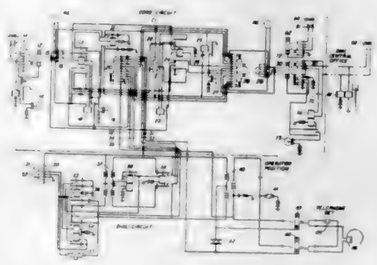
1. In a container sealing machine, a can-seaming turret, a detachable centrally apertured bottom plate for the turret, a can elevating and vacuumizing assembly shiftable into position against the bottom plate, a vacuumizing chamber in the assembly, a vacuum operated lifting pad in the chamber and means for moving the assembly into sealing engagement with the bottom plate of the turret.

2,535,871
DISPENSING CONTAINER FOR POWDERED MATERIALS
Joseph W. Seigh, Jersey City, N. J., assignor to Continental Can Company, Inc., of New York, N. Y., a corporation of New York
Application May 17, 1948, Serial No. 27,459
2 Claims. (Cl. 222—542)



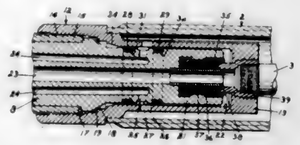
1. A container for dispensing powdered material comprising a body having flat sides and rounded corners, a closure end including a perforated nozzle section and a skirted section joined to the nozzle section by an interfolded seam, said skirted section having a depending skirt frictionally engaging the outer upper end portion of the body, a reinforcing member disposed within said skirted section and having a retaining part surrounding said nozzle and extending into said seam whereby said retaining part is rigidly supported, said retaining part having a depending wall carrying an upwardly extending wall, said walls being shaped to conform to the flat sides of the body, the upstanding wall being dimensioned so as to engage the body wall at the upper inner side portion thereof for preventing the flat side of the body wall from swinging away from the skirt of the closure end.

2,535,872
SIGNALING SYSTEM
William Leroy Shafer, Mount Lebanon, Pa., assignor to American Telephone and Telegraph Company, a corporation of New York
Application April 25, 1947, Serial No. 743,900
3 Claims. (Cl. 179—16)



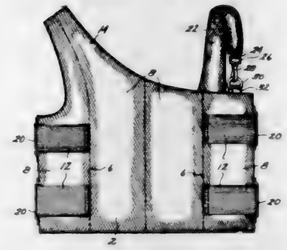
1. In combination, a circuit including in series a current source, an impulse receiving relay, an inductance and impulse contacts for opening and closing said circuit to transmit impulses to said relay, a capacitance, and means for connecting said capacitance in parallel with said inductance during the transmission of impulses to said relay, said capacitance being large to insure the response of said relay to each impulse of said train and to prevent the false release of said relay when the parallel path through said capacitance is opened at the end of a train of impulses.

2,535,873
OXYGEN-ACETYLENE TORCH
John E. Smith, Minneapolis, Minn., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn., a corporation of Minnesota
Application October 27, 1948, Serial No. 56,708
7 Claims. (Cl. 158—27.4)



1. A torch comprising a handle having means at one end for connecting it to a supply of fuel gas and oxygen, a head secured in the opposite end of the handle and having a bore therein, open at one end, a duct for establishing communication between said bore and the supplies of fuel gas and oxygen, a torch tip supporting member having a cylindrical portion fitting in said bore with its periphery spaced from the wall of the bore, thereby to provide an annular space therebetween, a clamping nut received in threaded engagement with the head for securing the tip supporting member in said bore, and an annular compressible sealing element encircling the cylindrical portion of the tip supporting member and compressed within said annular space and disposed between said duct and the open end of the bore, thereby to prevent leakage of the fuel gases from the torch head.

2,535,874
LIFE JACKET
Roy E. Starn, Greenfield, Ohio
Application November 7, 1947, Serial No. 784,699
1 Claim. (Cl. 9—20)



A life preserver comprising a body encircling portion formed of confined sections of buoyant material in two groups one group engaging the front of the body and the other group engaging the rear of the body, flexible connections between the end sections of said groups, elastic webs normally contracting the said connections, guide loops for said webs secured to said end sections in pairs in diametrically opposed relation to each other, and an integral shoulder strap extending from the group engaging the front of the body to the group engaging the rear of the body, and an auxiliary shoulder strap integral with the group engaging the rear of the body and detachable hook means for securing the strap to the group engaging the front of the body.

2,535,875
PLANT GROWTH REGULANTS
William D. Stewart, Yonkers, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 3, 1947, Serial No. 772,003
11 Claims. (Cl. 71—2.7)

1. A method of altering growth characteristics of plants which comprises wetting at least a portion of the plant structure with an aqueous composition containing a wetting agent and 0.002% to 5% by weight of a compound having the formula

$$R-A-CH_2CH_2-\overset{O}{\overset{\|}{C}}-Y$$

where R is selected from the class consisting of the hydrogen atom and an aliphatic hydrocarbon radical, A is an atom selected from the class consisting of oxygen and sulfur atoms, and Y is a member selected from the class consisting of the hydroxy radical, an oxy hydrocarbon radical, the amido radical, a hydrocarbon substituted amido radical, an oxy ammonium group, and an oxymetallic group.

2,535,876
BETA-(HETEROCYCLIC-THIO) PROPIONIC ACID AND DERIVATIVES AS PLANT STIMULANTS
William D. Stewart, Yonkers, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 3, 1947, Serial No. 772,004
18 Claims. (Cl. 71—2.5)

1. A method of altering the growth characteristics of plants which comprises wetting at least a portion of the plant structure with an aqueous composition containing a wetting agent and 0.001% to 5% by weight of a compound selected from the group consisting of beta-(heterocyclic-thio) propionic acids having the formula

$$A-S-CH_2CH_2COOH$$

where A is a nitrogen containing heterocyclic radical having its connecting valence on a ring nitrogen atom and an atom selected from the group consisting of sulfur and oxygen and being otherwise composed of carbon and hydrogen atoms, and derivatives of said acids which can be converted to the free acids through hydrolysis involving one molecule of water.

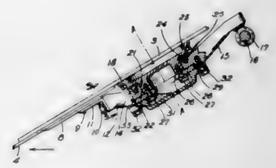
2,535,877
PLANT GROWTH REGULANTS
William D. Stewart, Yonkers, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 3, 1947, Serial No. 772,005
10 Claims. (Cl. 71—2.7)

1. In the art of altering the growth characteristics of plants by a method which comprises bringing at least a portion of the plant structure into contact with a plant growth regulant and then maintaining the plant structure under conditions normally favoring growth, the improvement which consists in utilizing as the plant growth regulant a composition containing as the essential active ingredient 0.01% to 5% by weight of a compound having the formula

$$A-CH_2CH_2\overset{O}{\overset{\|}{C}}-Y$$

where A is the residue derived from a dithio acid by the removal of the hydrogen atom of the SH group of said acid and where Y is a substituent selected from the class consisting of the hydroxyl radical, an oxy-hydrocarbon radical, the amido radical, a hydrocarbon substituted amido radical, and oxyammonium and oxymetallic groups, intimately admixed with an inert diluent.

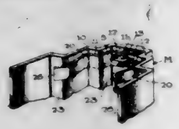
2,535,878
DUSTPROOF BEARING FOR SICKLES
Carl E. Swenson, Rockford, Ill.
Application September 16, 1947, Serial No. 774,218
12 Claims. (Cl. 56—299)



1. In a cutter of the character described for a harvesting machine, the combination of a relatively stationary pair of inwardly converging shear guides disposed in a plane providing a slot between them and a cutter blade mounted adjacent to the inner portion of the slot for movements in a plane independent of the plane of the shear guides across the slot and transversely of said guides, with a pivot member including a piv-

ot bearing in fixed relation with the shear guides, a pair of opposed thrust bearings at one end of said pivot bearing, a blade carrier including a pivot ring portion mounted on said pivot bearing, said ring portion having a bearing surface engageable with one of said thrust bearings to prevent movement of the blade away from the shear guides, and a dust tight closure member rigidly attached to said blade carrier for enclosing the outer end of said pivot bearing and having a bearing surface engageable with the other thrust bearing to prevent movement of the blade toward the shear guides.

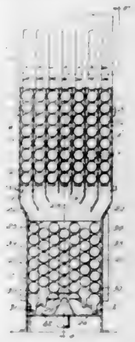
2,535,879
SHEET METAL SPRING CLIP WITH CLASP MEANS
Albert H. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 22, 1947, Serial No. 743,161
1 Claim. (Cl. 24—73)



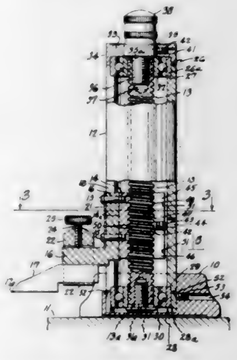
A spring clip for securing a trim object over a supporting part, said trim object being provided with an attaching stud projecting from its undersurface having a cross-section of greater length than width defining axially extending side surfaces on said stud merging with axially extending edge surfaces on said stud, said spring clip comprising a sheet metal body bent to provide a base having an elongate opening provided at its opposite ends with marginal portions in the form of cooperating tongues having spaced V-shaped extremities for biting engagement with said axially extending edge surfaces of said stud, and a marginal portion at each side of said elongate opening comprising a prong having its point in the space between said spaced tongue extremities and in position for engaging said axially extending side surfaces of said stud, and a pair of spaced spring arms extending outwardly from said base of the clip in the same general direction, said spring arms including inwardly projecting shoulders adapted to grip said supporting part therebetween in applied fastening position and outwardly diverging guide surfaces adjoining said shoulders having free ends spaced apart greater than the thickness of said supporting part and adapted to spread said spring arms over said supporting part in the application of said shoulders to applied position.

2,535,880
CAN ARRANGING AND BAGGING METHOD AND APPARATUS
Walter M. Tomkins, Hinsdale, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application October 4, 1945, Serial No. 620,359
30 Claims. (Cl. 226—15)

1. In apparatus of the character described, means forming a way wherein to receive and confine a predetermined number of rows of cans side by side in staggered and nested relation, means for simultaneously bringing about movement of said predetermined number of individual can rows into said way, and means controlling movement of the multiple of can rows into said way to effect a simultaneous staggering and nesting of the cans of each row with respect to the cans of the row or rows next adjacent thereto.



2,535,881
MICROMETER HEIGHT GAUGE
William Vangor, Bridgeport, Conn.
Application July 12, 1948, Serial No. 38,211
5 Claims. (Cl. 33—170)

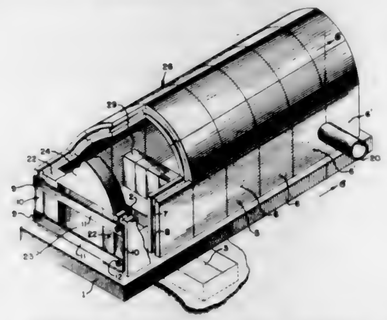


4. A micrometer height gauge comprising a base, a tubular barrel extending vertically from and mounted in said base, outwardly facing shoulders at the opposite ends of said barrel, ball bearings comprising inner and outer rings mounted with their outer rings seated against said shoulders, a rotatable adjusting screw mounted in the inner rings of said bearings, a finger grip having threaded connection with the upper end of the screw and provided with a shoulder abutting against the upper side of the inner ring of the upper bearing, said screw being of lesser length than the distance between the upper and lower sides of the inner rings of the upper and lower bearings respectively, a preloading screw, threaded into the lower end of the adjusting screw, a head on the screw engaging the lower side of the inner ring of the lower bearing, means for operating the preloading screw to apply pressure to the outer ends of the two inner bearing rings to preload the bearings, an adjusting nut on the adjusting screw, and an indicating means carried by the nut at the outer side of the barrel.

2,535,882
BOTTLE CONTENTS QUANTITY INDICATOR
Michael P. Villane, Hyde Park, Charles G. Dailey, West Medford, and Frank R. Wisentaner, Roxbury, Mass.; said Dailey assignor to said Villane and said Wisentaner
Application May 22, 1947, Serial No. 749,638
2 Claims. (Cl. 215—8)

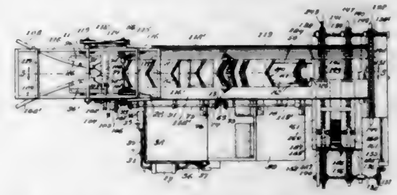
1. A contents quantity indicator for bottles comprising a body having size and shape for passing through the mouth of a bottle to a predetermined location in the neck of the bottle substantially inward of the said mouth, means in said body for permitting outflow of bottle contents but adapted to obtruct inflow of liquid to said bottle, and a stiff linear member projecting at the inner end of said body and having length for engaging the bottom of the bottle when said body is at its said predetermined location in the neck of the bottle, said stiff linear member limiting the inward movement of said body, and said body, when at its said predetermined location, maintaining said stiff member in its said engagement with the bottom of the bottle, said stiff member having means thereon for accurately indicating the quantity of contents of the bottle only when maintained in its said engagement with the bottom of the bottle.

2,535,883
REFRACTORY FURNACE FOR TOBACCO BARNS
Robert B. Williamson, Bluefield, W. Va.
Application June 5, 1947, Serial No. 752,600
7 Claims. (Cl. 110—1)



4. Furnace comprising spaced parallel side walls, each consisting of a row of contiguous refractory members of uniform width and uniform height, tie rods extending through each row, transverse spacing plates extending between the respective rows at the ends of said side walls through which the ends of said tie rods extend, nuts for tensioning said tie rods to bring said side walls and spacing plates into a rigid rectangular unit, refractory end wall members fitted between said side walls at the rear and flush with the rear ends thereof, said end wall members having their contiguous faces provided with matching semi-circular depressions forming a circular flue opening.

2,535,884
BROOM CORN CUTTER
Ralph R. Woods, Springfield, Colo.
Application June 15, 1949, Serial No. 99,332
5 Claims. (Cl. 56—17)



1. In a broom corn harvesting machine, the combination with a power operated vehicle, hydraulic lifts mounted on the front of said vehicle, of a first movable frame supported by the front of said vehicle and mounted for pivotal movement about a horizontal axis, a second frame disposed above the rear of said vehicle and connected to said first frame, said hydraulic lifts being connected to said first frame whereby actuation of said lifts causes a pivotal movement of said first frame, a pair of diverging arms projecting forwardly from said first frame for gathering in the corn stalks, a cutting mechanism connected to the front of said first frame for severing the heads of said stalks, a rotary reel supported by said first frame for moving said stalks into engagement with said cutting mechanism, an endless conveyor mounted on said frames for carrying the severed heads through the machine, a pair of spaced inclined sideboards supported by each said first frames for preventing the severed heads from accidentally falling off said conveyor, a horizontally disposed stationary table disposed rearwardly of said second frame and secured thereto, a platform slidably connected to said table, a rotary saw carried by said platform, a conveyor mounted on said table for receiving the severed heads from said conveyor and carrying the heads into engagement with said saw whereby said heads are trimmed to a uniform length, and a trough for receiving therein the cut heads.

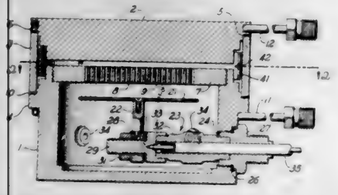
2,535,885
TANK FLUSH BALL
Warren B. Zern, Pottstown, Pa.
Original application March 29, 1945, Serial No. 585,556. Divided and this application March 13, 1946, Serial No. 654,032
1 Claim. (Cl. 4—56)

In a valve construction for a flush tank, a ball adapted to be supported on a ring, said ball including a bottom portion of a size less than the top portion thereof, there being an offset shoulder connecting said bottom portion to said top portion, a weight secured to said bottom portion,

an arcuate rubber skirt member arranged in spaced relation about said bottom portion, said skirt member having its upper edge secured to

said top portion adjacent said offset shoulder, there being an opening in said skirt member for the ingress and egress therethrough of air.

2,535,886
ELECTRONIC SWITCH
William R. Baker, Berkeley, and Quentin A. Kerns, Oakland, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application July 26, 1949, Serial No. 106,914
15 Claims. (Cl. 250—27.5)

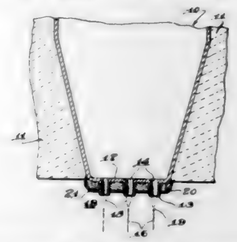


1. An electronic switch comprising an envelope containing an ionizable atmosphere, an anode, a trigger electrode, and a biacting electrode therebetween, said biacting electrode having apertures therethrough for the passage of ionizing discharge from said trigger electrode and being electron emissive only following ionization of said atmosphere thereby to support electrical discharge to said anode.

2,535,887
ROLLER SKATE
Ralph L. Biddle, Indianapolis, Ind.
Application January 25, 1946, Serial No. 643,307
4 Claims. (Cl. 280—11.28)

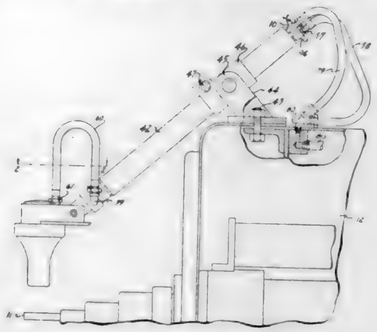
1. In a roller skate, a foot plate; fore and aft roller trucks rockably mounted under said plate on oppositely inclined axes; a lever extending from each truck toward the other truck, the lever of one being on an opposite side of the rotation axis of the other; and a shaft rockably interconnecting said levers, whereby turning of one truck induces opposite turning of the other truck; and means selectively yieldingly resisting said turning; said means comprising a bowed leaf spring carried by each of said trucks to extend approximately normal to their axes of rotation toward the underside of said plate between said trucks, means carried by said plate separately receiving the upper end of each of said springs, and means selectively yieldingly securing said upper spring ends to their respective plate carried means.

2,535,888
FEEDER FOR MOLTEN THERMOPLASTIC MATERIALS
Charles H. Billman, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application December 12, 1947, Serial No. 791,411
7 Claims. (Cl. 49—55)



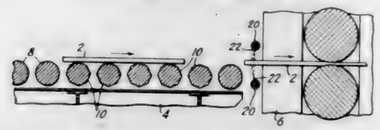
1. A container for supplying molten glass in the form of streams to be attenuated to fine fibers, said container having walls formed of a metal having high heat resisting and radiating characteristics, said container provided in its bottom wall with a multiplicity of discharge orifices through which molten glass flows, means for heating the container, a coating at least three-sixteenths of an inch thick of sillimanite cement on the bottom surface around the orifices for resisting radiation of heat from said bottom wall in the direction of flow of the glass streams issuing from the orifices, and a water soluble chromic oxide coating for the cement to resist wetting of the latter by the molten glass.

2,535,889
INSTRUMENT MOUNTING
Carl A. Boehm, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application December 6, 1949, Serial No. 131,408
11 Claims. (Cl. 250—238)



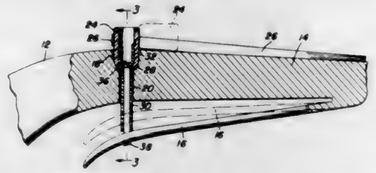
1. An instrument support of the character described including a head, a supporting arm therefor, said head and said arm having conduit passages formed therein, and a pivot interconnecting said parts, said pivot having axially spaced circumferential grooves respectively aligned with the passage of the arm and the passage in the head and an axially extending passage interconnecting the grooves whereby continuous connection is provided between the passages in the head and arm for any relative angular adjustment of the parts about the pivot.

2,535,890
APPARATUS FOR REMOVING SCALE
Harold W. Bouck, Hobart, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application June 22, 1945, Serial No. 600,963
2 Claims. (Cl. 29—81)



1. Apparatus for removing scale from a slab, embodying a straight line conveyor table comprising a plurality of rolls with their axes in a common plane, parallel, and extending transversely to the line of conveyance, a series of said rolls intermediate said line, each being polygonal in cross section providing a plurality of flat sides forming corners at their junctions, and means for rotating said rolls whereby said polygonal rolls will bump said slab up and down while said corners afford a scraping action.

2,535,891
RUBBER BAND GUN
Walter L. Bozarth, Modesto, Calif.
Application October 15, 1948, Serial No. 54,762
3 Claims. (Cl. 124—18)



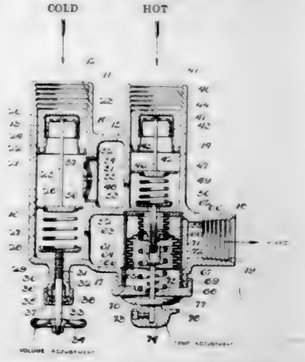
1. In a gun having a barrel portion and a handle; a means for shooting a rubber band comprising a socket in the barrel portion adjacent the handle, a vertical bore extending through said barrel portion and communicative with said socket, a keeper positioned in said socket, the rubber band being adapted to be retained on the front end of said barrel portion and on said keeper, a push sleeve slidable in said bore, an elongated flexible trigger secured at one of its ends to the barrel portion, and flexible connecting means between said keeper and the other end of said trigger yieldingly urging said keeper and said trigger toward each other, said push sleeve embracing said connecting means and retaining said keeper and said trigger spaced at a predetermined distance, whereby upon depression of said trigger said push sleeve will urge said keeper out of said socket to release the rubber band.

2,535,892
CONTROL FOR SYSTEMS USING EITHER HEATING OR COOLING MEDIUM
Charles D. Branson, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application August 2, 1948, Serial No. 41,963
11 Claims. (Cl. 236—1)

3. In a system for circulating either a heating medium or a cooling medium through heat exchangers, in combination with a supply conduit and a return conduit for the circulating medium and a pair of conduits through which the medium flows to and from the heat exchangers, thermostatically controlled valve mechanism for maintaining a predetermined temperature difference between the medium flowing through the supply and return conduits and including a pair of temperature responsive elements respectively subjected to the temperature of the medium flowing through the conduits of said pair, cross over connections connecting each of said supply and re-

turn conduits to both of said pair of conduits, and a pair of thermostatically operated valve mechanisms including temperature responsive elements subjected to the medium flowing through said supply conduit for controlling said cross over connections and reversing the direction of circulation through said pair of conduits upon change from heating medium to cooling medium or vice versa.

2,535,893
CONSTANT FLOW MIXING VALVE
Charles D. Branson, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application November 12, 1948, Serial No. 59,533
12 Claims. (Cl. 236—12)



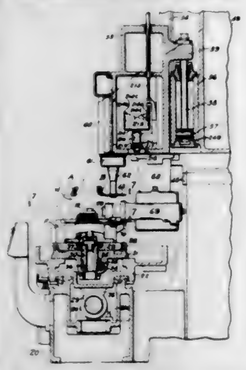
1. In a device of the character described, in combination with a housing providing a mixing chamber, an outlet passage for communication with said mixing chamber, an inlet passage for one of the fluids to be mixed communicating with said mixing chamber, and a second inlet passage for the other fluid to be mixed having means of communication with said mixing chamber, valve mechanism in said first named inlet passage, constant flow mechanism in said mixing chamber for maintaining a substantially constant flow of fluid therethrough and directly connected to said valve mechanism, a second valve mechanism in said second named inlet passage having constant flow mechanism operatively connected thereto, and a thermostat sub-

jected to the temperature of the mixture and operatively connected to said last named constant flow mechanism.

2,535,894
VISOR MOUNTING DEVICE
Alan D. Brundage, Detroit, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application August 30, 1949, Serial No. 113,210
2 Claims. (Cl. 287—93)

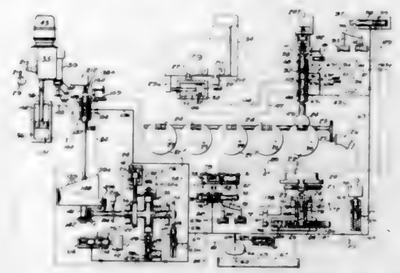
2. A mounting device for glare shields comprising a bracket having a base wall and an arm carrying portion, recessed portions below and above said latter portion, a tapered aperture in said arm carrying portion, an arm having a bent portion provided with a tapered end disposed in and extending beyond said aperture, a circumferential groove in the end portion of said arm extending beyond said aperture and a U-shaped leaf spring disposed in engagement with said bent portion below and above said arm carrying portion for urging said arm portion axially of said aperture and for retaining said arm and spring in assembled relation.

2,535,895
AUTOMATIC PROFILE CUTTING MACHINE
John Q. Buckles, George A. Lensky, and Winthrop Trible, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application November 1, 1945, Serial No. 625,988
25 Claims. (Cl. 90—13.5)



1. In a pattern controlled machine tool, a reciprocable work table, indexible work and pattern fixtures mounted on said table, a cutting tool spindle supported for lateral movement toward and from the index axis of the work fixtures, pattern controlled means including a tracer engageable with a pattern array mounted on the pattern fixture to control lateral movement of the tool spindle during a cutting operation, means for indexing said tool spindle axially to position the cutter successively in a series of predetermined cutting planes, and means responsive to movement of the tool spindle to the last cutting plane of a series to effect indexing of the work and pattern fixtures.

2,535,896
PATTERN CONTROLLED MILLING MACHINE
John Q. Buckles, George A. Lensky, and Winthrop Trible, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application February 28, 1946, Serial No. 650,806
18 Claims. (Cl. 90—13.4)



1. In a pattern controlled machine tool, the combination with continuously rotating supporting means for a work piece and a pattern, of a cutter and tracer, means for feeding the cutter and tracer toward the work and pattern respectively to effect engagement of the tracer with the rotating pattern at some random point in the periphery thereof, a mechanism for progressively measuring the angular rotation of the work and pattern, means responsive to engagement of the tracer with the pattern at said random point to activate said mechanism, a control element actuable by said mechanism upon completion of a predetermined angle of rotation, and means responsive to actuation of said control element for effecting disengagement of the cutter and tracer from the work and pattern respectively whereby the cutter will be effective on the work for a predetermined angle of work rotation measured from said random point.

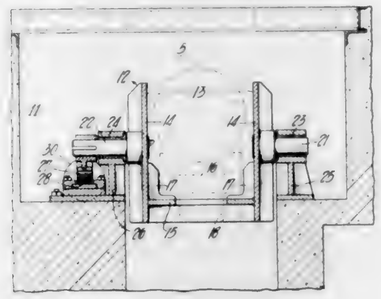
2,535,897
GAUGE GUIDING MEANS
Pierre Buisson, Vanves, France
Application November 5, 1946, Serial No. 707,938
In France November 16, 1945
2 Claims. (Cl. 33—178)

2. In a gauge of the plug or ring type the combination of a gauge body having an annular groove near an end of the gauge body and a wire coil ring seated in said groove with its circumference slightly projecting radially beyond the circumference of the working end of the gauge.

2,535,898
APPARATUS FOR CHANGING VERTICAL MILL ROLLS
Raymond A. Burkhart, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application October 10, 1944, Serial No. 558,040
7 Claims. (Cl. 80—1)

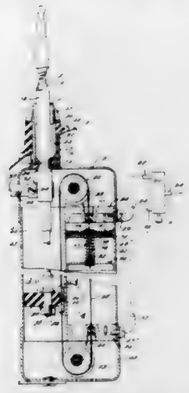
1. A device for turning heavy rolling mill rolls from the vertical to the horizontal or vice versa,

comprising a heavy longitudinal frame, trunnions on which said frame is supported for pivotal movement, said trunnions being located on a horizontal line transverse of the frame and midway of the longitudinal axis of the frame, means for rotating the frame on the trunnions



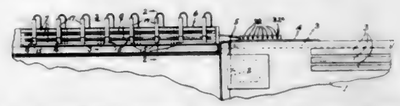
from a horizontal position to a vertical position both clockwise and counterclockwise, means for supporting a roll on the frame in horizontal position, and means engaging the roll for supporting it stably when the frame is turned from a horizontal to a vertical position.

2,535,899
ANTENNA
Emil Carlson, Detroit, Mich., assignor, by mesne assignments, to H. Y. Bassett, O. D. Marcks, and V. D. Hanna, all of Detroit, Mich.
Application October 17, 1946, Serial No. 703,852
2 Claims. (Cl. 250—33)



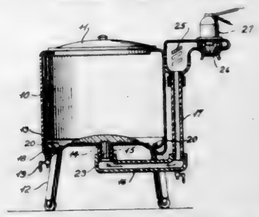
1. A power-operable extensible and retractable aerial construction comprising a housing structure incorporating a pair of substantially parallel elongated chambers arranged side-by-side, one of said chambers being open at the top and bottom thereof, an antenna rod slidable in said last chamber through and from said top opening, and a pressure-operable motor element housed in the other of said chambers laterally offset and substantially isolated from the first-mentioned chamber and a belt operatively connecting the motor element to said rod to actuate the same.

2,535,900
ELECTRICALLY OPERATED SAW GAUGE
Harold C. Carman, Spokane, Wash., assignor to Western Pine Mfg. Company Limited, Spokane, Wash.
Application September 27, 1947, Serial No. 776,499
3 Claims. (Cl. 143—168)



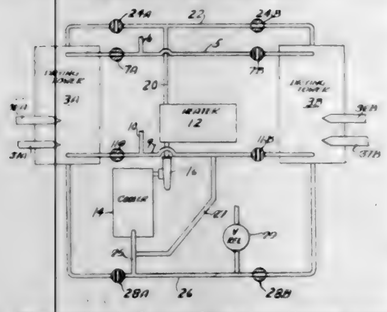
3. A sawing gauge comprising a base having longitudinally extending bars and slots between the bars, upper portions of the bars being beveled along opposite sides of the slots and forming channels over the slots, gauge members extending transversely of the base and each having a housing resting upon the bars and open at its front end and formed with depending lugs fitting into the channels, fasteners passing through the slots and screwed into sockets formed in the lugs and tightened to releasably hold the housing in an adjusted position along the base, front and rear solenoids over the housing extending longitudinally thereof in spaced and aligned relation to each other, a core extending longitudinally between the solenoids and having front and rear portions slidable in cores of the solenoids, through confronting ends thereof, a circuit for said solenoids having therein switches for selectively energizing the front solenoid of a predetermined gauge member for moving the abutment bar of the said gauge member to an extended position and energizing the rear solenoids of the remaining gauge members for holding the abutment bars thereof retracted.

2,535,901
WASHING MACHINE WITH GAS SUPPLY MEANS
Melville Russell Cole, Manchester, Tenn.
Application November 28, 1947, Serial No. 788,624
1 Claim. (Cl. 68—183)



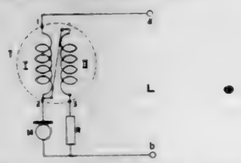
In a washing machine comprising a tub, a bottom having a central inlet port, a baffle plate removably seated upon the intermediate portion of the bottom over the inlet port and having outwardly extending air channels in the underside communicating with said inlet port, and means for supplying heated air to the latter port, the features which include a deep peripheral gutter portion in the bottom, a central flat raised area upon said bottom surrounded by said peripheral gutter portion supporting the baffle plate, a drain cock connected to the gutter portion, a dome-shaped convex top upon said baffle plate, having the air channels in the underside of said baffle plate convolute in form, and an annular concave and perforate false bottom disposed over the peripheral gutter portion about the central, flat raised area of said bottom with the deeper portion of said false bottom below the level of said central area.

2,535,902
GAS DRIER
William H. Dailey, Jr., Library, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application March 7, 1947, Serial No. 733,019
6 Claims. (Cl. 183—4.5)



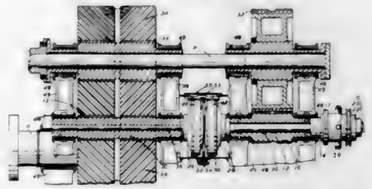
1. The method of providing a continuous supply of dry gas wherein at least two containers of desiccant are used, which method comprises passing the wet gas through a container of active desiccant, while reactivating a second container of moisture saturated desiccant, said reactivating step including heating a portion of the gas to a temperature sufficient to vaporize moisture in the saturated desiccant, forcibly circulating said heated gas through the moisture saturated desiccant to vaporize said moisture, gradually purging said circulating gas of vaporized moisture by continually bleeding-off a portion of the gas after it leaves the container of desiccant being reactivated and replacing said bled-off portion with dry gas issuing from the container of active desiccant; said heating, forced circulation and purging being continued until substantially all moisture is removed from the desiccant being reactivated, and then cooling the reactivated desiccant to its operating temperature by continuing the forced circulation and purging while cooling the circulating gas.

2,535,903
SIDETONE CORRECTION WINDING IN TELEPHONE RECEIVER
Giorgio Dal Monte, Milan, Italy, assignor to Officine Lombarde Apparecchi di Precisione O. L. A. P. della Siemens Societa per Azioni, Milano, Italy, a corporation of Italy
Application September 27, 1948, Serial No. 51,403
In Italy October 2, 1947
2 Claims. (Cl. 179—81)



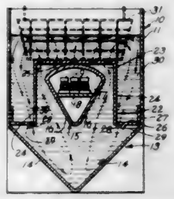
1. In a telephone set comprising a microphone and a receiver, two magnetically coupled field windings included in said receiver, one of said windings being series connected with said microphone across the line and the other of said windings being parallel connected across said microphone and having one terminal connected to the lead connecting said first mentioned winding to said microphone, the sense of winding of said windings being such that the magnetic effects produced by them are concordant for voice currents coming from the line.

2,535,904
REVERSIBLE SPEED-REDUCTION GEAR FOR SHIP PROPULSION
Allan William Davis, Glasgow, Scotland, assignor to The Fairfield Shipbuilding and Engineering Company Limited, Glasgow, Scotland
Application February 19, 1948, Serial No. 9,564
In Great Britain March 7, 1946
2 Claims. (Cl. 74—655)



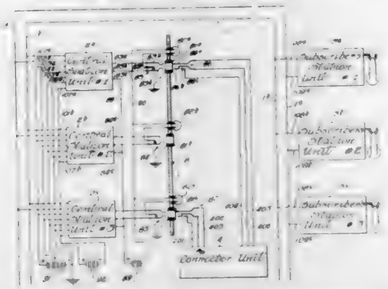
1. A reversible speed-reduction gear for ship propulsion comprising a high-speed unidirectional driving shaft, a medium-speed lay shaft, a low-speed propeller shaft, gearing that connects said lay shaft to said propeller shaft, an astern pinion geared through said gearing to said propeller shaft, a primary ahead pinion, gearing that connects said primary ahead pinion to said lay shaft, a double hydraulic coupling operable either to couple said primary ahead pinion to said driving shaft for ahead propulsion with double speed-reduction through said lay shaft or, alternatively, to couple said astern pinion to said high-speed driving shaft for astern propulsion with single speed-reduction, and a positive clutch for connection of said primary ahead pinion direct to said driving shaft during normal ahead propulsion.

2,535,905
DEEP FAT FRYER
James F. Dawson, Houston, Tex.
Application April 30, 1946, Serial No. 666,128
3 Claims. (Cl. 99—408)



3. A deep fat fryer comprising a receptacle having an open top for the introduction thereinto of a food carrier, the receptacle having side and end walls and a bottom wall, the bottom wall being of V-form and extending between the end walls, means forming a tubular housing extend ng longitudinally through the receptacle, said housing opening at its ends through said end walls, a horizontal division wall in the hous ng forming a top chamber and a lower air passage, the air passage being open at its ends, said tubular housing being at a substantial elevation above the bottom wall, and a rack supported above said hous ng and comprising a horizontal apertured top portion on which a food receptacle may rest and depending side portions having spaced relation with the adjacent side walls of the receptacle, the rack further comprising laterally extending floor walls connected with said depending side portions and contacting the adjacent side walls of the receptacle, said floor walls being apertured adjacent to the said depending side portions.

2,535,906
CARRIER WAVE COMMUNICATION SYSTEM
William C. Dillon and Clarence H. Kehm, Chicago, Ill., assignors to W. C. Dillon & Co., Inc., Chicago, Ill., a corporation of Illinois
Application June 6, 1946, Serial No. 674,750
20 Claims. (Cl. 179—15)

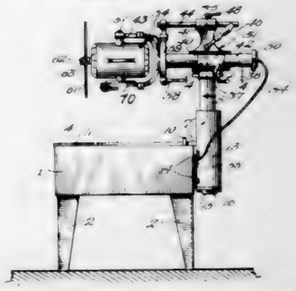


1. In a telephone system: a transmission line; a central station at one end of the line having therein a conventional switchboard and a plurality of units, each unit being connected to a different terminal of said board and each unit including filter means connected to the line, means coupled to said filter means for supplying carrier waves to said line, and modulating and demodulating means coupled to the line through said filter means, the carrier wave supplying means and filters in each unit being tuned to a different frequency; and a plurality of subscribers units connected to said transmission line at points spaced from the central station, each such unit including a filter connected to the line, a microphone, a receiver, rectifying means for rectifying a portion of said carrier waves to provide a D. C. energizing supply for said microphone, a circuit connecting the input of said rectifying means to said line through said last mentioned filter, a circuit connecting the output of said rectifying means to said microphone, and means coupled to said line through said last mentioned filter and coupled to said microphone for modulating carrier waves on the line by voice waves generated by the microphone, the rectifying means and modulating means both being self-operable and the filters in each unit being tuned to a different frequency corresponding to that of one of the central station units.

2,535,907
FISHING BOBBER
Joseph Dolejs, Antigo, Wis.
Application December 8, 1945, Serial No. 633,600
3 Claims. (Cl. 43—44.92)

1. A fishing bobber comprising a combination with a float having a convex surface and a flattened face, said float having a bore opening therethrough substantially at right angles to said face and offset to one side of the vertical axis thereof, said float further having a surface recess at the opposite side of said axis, of a clip comprising a plate applied to said face and provided with an angularly disposed concave arm extending across said recess and having a tipped portion slightly projecting from said float, together with bolt means passing through said bore and said plate and securing said clip means to said float, said recess being located in a portion of the surface of the float above the central plane thereof so that the weight of the bolt will counterbalance the arm structure so as to maintain the flat surface of the float substantially horizontal.

2,535,908
RADIAL ARM POWER SAW
Leo A. Epplin, Waterloo, Ill.
Application September 17, 1946, Serial No. 697,404
3 Claims. (Cl. 143—6)

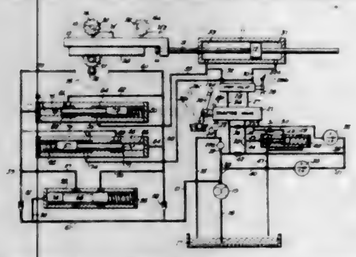


1. A power saw comprising a supporting table, a tubular vertically disposed head member attached to said table, a screw jack operable in said head member, a guide head supported by said screw jack, a tubular yoke supporting sleeve slidably supported in said guide head, a yoke member secured on said sleeve and disposed above said table, an apertured disc integral with said tubular sleeve, a guide rod axially adjustably mounted on said guide head, a locking ring fixed to said guide rod and disposed coaxially of said sleeve, a disc integral with said sleeve and rotatable within said locking ring, means for adjustably securing said disc to said locking ring, a motor tiltably supported in said yoke, and a rotary saw supported and operated by said motor in operative position above said table.

2,535,909
HYDRAULIC TRANSMISSION
Hans Ernst and Albert H. Dall, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application November 27, 1944, Serial No. 565,340
10 Claims. (Cl. 90—21.5)

1. In a milling machine having a work table, a cutter support associated with said work table, a hydraulic motor including a piston and cylinder for actuating said work table, a locked hydraulic feeding circuit connected to said cylinder at opposite sides of said piston to effect complementary pressure differences in said cylinder for effecting relative feeding movement in said work table, a separate hydraulic opposer motor, gearing interconnecting the motor and said work table whereby the motor is driven by movement of the table, a fluid circulating circuit connected to said motor,

and a variable resistance means in said circuit reacting on the flow of fluid in said circuit when said motor is being driven by said work table,



and pressure connections between the locked circuit and said variable resistance means whereby said means are controlled by variations in the fluid pressure in said actuating cylinder circuit.

2,535,910

TREATMENT OF UNRENDERED FAT WITH NORDIHYDROGUAIARETIC ACID

Aladar Fonyo, La Grange, Ill., assignor to Wm. J. Stange Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 24, 1947, Serial No. 775,977
2 Claims. (Cl. 99—163)

1. The method of processing unrendered fats to afford them resistance to oxidative rancidity which consists in introducing into an aqueous vehicle nordihydroguaiaretic acid in a solvent therefor taken from the group which consists of sorbitan monolaurate, -palmitate, -stearate, -oleate and their polyoxyalkylene derivatives, and polyethylene glycol mono-oleate, -dioleate, -mono-stearate, -distearate, and contacting with the resultant aqueous solution exposed surfaces of uncomminuted meat bodies in which such fats occur.

2,535,911

SLAB GRIPPING DEVICE

John E. Frame, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application August 21, 1945, Serial No. 611,769
2 Claims. (Cl. 294—103)

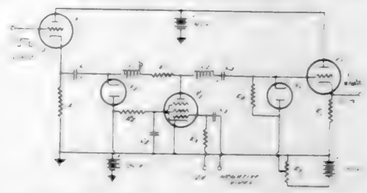
2. A slab gripping device comprising a frame, an outwardly extending arm on said frame, a jaw fixedly mounted on said arm adjacent the outer end thereof, a reciprocable jaw loosely mounted on said arm in opposed relation to said fixed jaw, a screw mounted on said frame in alignment with said reciprocable jaw, said reciprocable jaw having a bore terminating in a spherical surface in alignment with said screw, the head of said screw being disposed in said bore and having a spherical end adapted to engage the spherical end of said bore, a slot in said head and a pin in said reciprocable jaw extending through said slot to permit relative motion between said reciprocable jaw and said screw to permit said reciprocable jaw to accommodate itself to a workpiece gripped thereby and to prevent binding of the jaw or of the screw and means to operate said screw, said means comprising an elongated sleeve nut engaging said screw and journaled on said frame, a gear centrally disposed on said sleeve nut, thrust bearings on each side of said gear and means for turning said gear.

2,535,912

VIDEO GATING CIRCUIT

Ernest Frank, Yeadon, Pa., and Robert Fred Mozley, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of the United States Air Force

Application December 8, 1948, Serial No. 64,136
4 Claims. (Cl. 250—27)



1. A gated amplifier comprising a first amplifier tube and a second amplifier tube each having an anode, a cathode and a control grid, means for applying a signal to be amplified between the control grid and cathode of said first tube, means for applying a positive direct potential between the anode and cathode of said first tube, means for applying a positive rectangular gating pulse to the anode of said first tube, means for applying the gating pulse and amplified signal on the anode of said first tube to the grid of said second tube, a source of operating potential and a load impedance connected between the anode and cathode of said second tube, means for connecting an output circuit across said load impedance, and means independent of the signal on the grid of said second tube for biasing the grid of said second tube neagtive with respect to the cathode of said second tube by a fixed amount equal to the cut-off voltage of said tube plus a voltage greater than the maximum signal applied to said grid in the absence of a gating pulse and equal to or less than the amplitude of the gating pulse applied to said grid from the anode of said first tube.

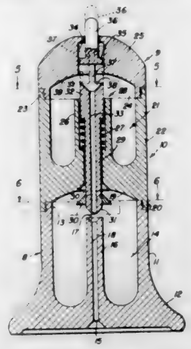
2,535,913

CONDIMENT SHAKER

Frederick W. Galvin and Lawrence J. Koch, St. Paul, Minn.

Application May 13, 1948, Serial No. 26,858
2 Claims. (Cl. 222—142.6)

2. A combination-type condiment holder and shaker embodying a lower section including a hollow body portion, said body portion having a base at its bottom and being open at its top, said base being provided with a condiment discharge opening, said base and body portion defining a condiment receptacle, said base having an upstanding tubular stem rising into said receptacle and lined up at its lower end with said discharge opening, the upper end of said stem being open and adapted to deliver a predetermined condiment from the receptacle through the existing passage in the stem and through the discharge opening, an upper section also including a body portion, said body portion being detachably connected with the upper end of the first named body portion and having a bottom overlying the upper end of said first named body portion and providing a deflecting surface to assist in delivering condiment into the upper end of said stem, said second body portion defining a second condiment receptacle and having a closure provided with a plunger guide, a plunger slidable in said second-named body with its lower end projecting into the first-named receptacle and lined up with and contactable with the upper end of said stem and functioning as a valve for the stem, said plunger having a central passage, the upper end of said passage being communicable with said upper receptacle, a push button slidably mounted in the plunger guide in said cover, an operating connection between said push button and upper end portion of said plunger, and spring means mounted in said second-named body portion and engageable with the plunger for normally raising the latter and disengaging the valve from contact with said stem.

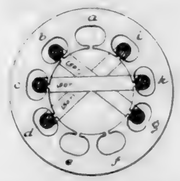


2,535,914

INDUCTION DEVICE HAVING A SUBSTANTIALLY PURE SINE RELATION BETWEEN THE COUPLING AND THE RELATIVE DISPLACEMENT OF ITS ELEMENTS

John P. Glass, Jr., Haverford Township, Delaware County, Pa., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Original application August 21, 1944, Serial No. 550,461. Divided and this application January 5, 1949, Serial No. 69,258
13 Claims. (Cl. 318—24)



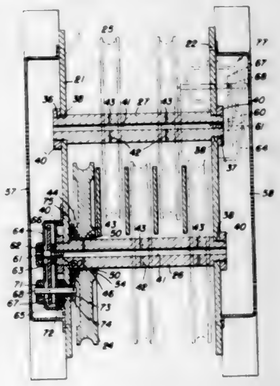
6. An inductive unit comprising two relatively movable elements of high permeability, constructed and arranged to be relatively movable without changing their distance apart, one of said elements having 3-phase Y-connected windings in 3 coil-slots per cycle, whereby the 3rd and 9th harmonics are neutralized and also having $3e$ dummy slots per cycle, where e is a small integer, with the effective slots substantially equally spaced, the other of said elements is constructed to have $b2$ salient poles with the pole faces effectively of substantially $cL/3(1+e)$ in width, i. e. in the direction of the stated movement, where L is the distance in the direction of the stated movement for a complete cycle and b and c are small integers, and each pole face is shaped to be symmetrical about its axis and with its profile, normal to the direction of the stated relative movement, substantially arcuate to provide an increase of clearance of substantially twice the minimum value of said distance at a point $L/9$ from said axis of symmetry in the direction of the stated relative movement, whereby the 5th and 7th harmonics are minimized, and the two elements are constructed to have $L/3(1+e)$ effective skewing, whereby a closely sinusoidal relation is provided between the coupling and the stated relative movement.

2,535,915

LUBRICATING SYSTEM FOR SHEAVE BLOCKS

Fred Gorrell, Odessa, Tex.

Application April 25, 1949, Serial No. 89,397
6 Claims. (Cl. 184—6)



1. An automatic lubrication system for the pulleys of a sheave block comprising a plurality of pulley shafts, pulleys seated on said shafts for free and independent rotation, each shaft being provided with a central bore running from end to end and with radial bores leading from said central bore to the seating surfaces of the pulleys, closed oil casings at each side of the sheave block, said oil casings communicating with the central bores in the shafts and fluid pumping means, actuated by one of the pulleys, arranged within said oil casing for circulating the oil through the central bores of the pulley shafts.

2,535,916

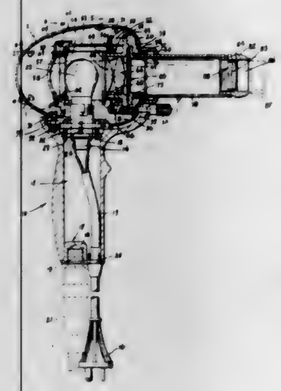
DIAGNOSTIC LAMP

Albin A. Gradisar, Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application May 11, 1946, Serial No. 669,115
9 Claims. (Cl. 240—41.15)

1. A device of the character described comprising a handle, a housing supported by said handle, said handle having a source of illumination mounted thereon and disposed within said housing, light reflecting means adjustably mounted in said housing adjacent the illumination means, means for adjusting said light reflecting means, a light projecting lens system carried by said housing in substantially axial alignment with the light reflecting means, a light projecting tube car-

ried by said housing axially aligned with the lens system and an iris diaphragm mounted in

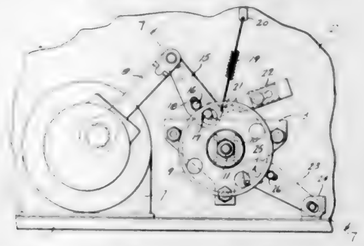


the housing between the light projecting lens system and the light projecting tube.

2,535,917
PROPELLER BLADE WITH A TUBULAR BACKBONE
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 4, 1945, Serial No. 608,877
2 Claims. (Cl. 170—159)

1. In a hollow metal propeller blade, a heavy weld fabricated tubular backbone section comprising complementary air foil plate-like members having generally thick body portions and thin edge portions constituting inwardly curved flanges and providing seats extending longitudinally on either side of said thicker body portions, welds joining said flanges together longitudinally internally of the blade to provide webs, a pair of generally U-shaped light sheet metal members having their free longitudinal edges curved inwardly and assembled on corresponding seats on said members, and weld metal joining said free edges of the sheet metal members to said backbone section to provide a continuous air foil shape for the blade, at least one of said welded webs being thin and of U-shape extending in the general direction of the corresponding U-shaped sheet metal member and with its walls spaced therefrom to provide for the twisting of the blade to shape after assembly and welding of the parts and without interference between the walls of the U-shaped web and of the corresponding U-shaped sheet metal member.

2,535,918
ROTARY CRANK-DRIVEN INTERMITTENT GRIP
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 24, 1946, Serial No. 692,767
5 Claims. (Cl. 74—118)

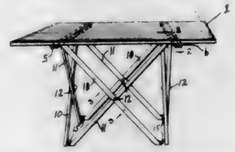


1. A pinch clutch actuated by a reciprocating element of a power source for intermittently rotating a stoker screw, which comprises a sheet metal tubular member concentric with said shaft and connected to the rear end of said stoker screw and having a circumferential slot extending in the circumferential wall thereof, a driving lever arm secured at one end to said reciprocating element and having the other end disposed to grip the wall of said tubular member to rotate the same when the arm is moved in one direction and to disengage said member and ride free of the same when said arm is moved in the opposite direction, and a second lever arm anchored at one end to the frame of the stoker assembly with which the clutch is employed and extending within the slot in said tubular element, a pin extending transversely through said lever arm on the inside of said tubular element, and a second pin extending transversely through said arm on the outside of said tubular element with said pins being offset to immediately grip said tubular element and prevent reverse rotation of the same when the end of the driving lever arm rides free of the drum and to ride freely over the tubular member when the same is being driven.

2,535,919
MANUFACTURE OF SHEETS OR WEBS OF FIBROUS TEXTILE MATERIALS
Frank Happey, Coventry, and John Herbert Grimes, Cheylesmore, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application October 15, 1948, Serial No. 54,728
In Great Britain November 7, 1947
2 Claims. (Cl. 154—101)

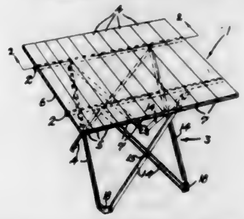
1. A process for the manufacture of non-woven fabrics which comprises the steps of acetylating unspun cellulose fibers while maintaining their fiber structure until the acetyl content of the fibers is from about 8 to about 40 per cent, calculated as the percentage of acetic acid on the final weight of the fibers, forming a fibrous web of unspun fibers at least the major proportion of which consists of the unspun, incompletely-acetylated cellulose fibers so obtained, and rendering adhesive the cellulose triacetate phase of the unspun incompletely-acetylated cellulose fibers whereby the fibers in the web are bonded together at their points of contact to form a unified fibrous structure.

2,535,920
FOLDING TABLE
John F. Hart, Craigmont, Idaho
Application April 28, 1947, Serial No. 744,308
3 Claims. (Cl. 311—78)



1. In a folding table, the combination with a rollable top including loosely jointed and parallel channel bars each having a web and a pair of spaced opposed right angle longitudinally extending flanges forming an under slot, and two series of links passed through holes formed in the flanges and connecting the bars, of a pair of spaced tubular cross rails located beneath the top and each having a key-hole slot in its bottom wall, each said rail also having an upset fastening lug at the end of its top wall for coaction with a flange of an end channel bar, detachable legs supporting the rails, and headed bolts on the legs for engagement with the key-hole slots.

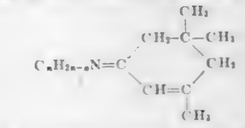
2,535,921
FOLDING TABLE WITH FLEXIBLE TOP
John F. Hart, Craigmont, Idaho
Application April 14, 1949, Serial No. 87,507
1 Claim. (Cl. 311—78)



A foldable table comprising a foldable support, bars carried by said support and supported horizontally thereon, a top consisting of a plurality of strips having depending side flanges and end flanges, the end flanges being formed with ears pivotally connecting the strips for movement from an extended position to a folded position, the flanges along pivotally connected sides of the strips being disposed diagonally and extending downwardly in diverging relation to each other to permit movement of the strips to a folded position, said side flanges resting upon said bars when the top is extended, the outer side flanges of end ones of said strips being provided with inwardly projecting lips resting upon end portions of said bars, and latches carried by opposite end portions of said bars and engaging the tongues of said end strips, the latch at one end of said bars having a stem rotatably mounted vertically through ends of the bar and having a bill projecting laterally from its upper end and moved into and out of overlapping securing engagement with the tongue secured thereby by turning movements of the stem.

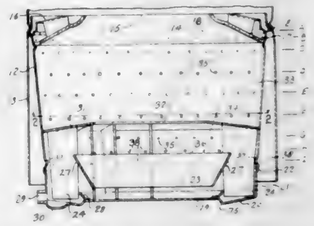
2,535,922
ISOPHORONE IMINES
Vernon E. Haury, El Cerrito, and Seaver A. Ballard, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 19, 1946, Serial No. 717,322
9 Claims. (Cl. 260—566)

1. Imines of the general formula



where n is an integer equal to at least 2 but not greater than 18 and a is an odd integer not greater than 3, the C_nH_{2n-a} group containing not more than one pair of doubly bonded carbon atoms.

2,535,923
VAPORIZING OIL BURNER
Vaughn H. Hill, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application January 16, 1948, Serial No. 2,623
24 Claims. (Cl. 158—91)

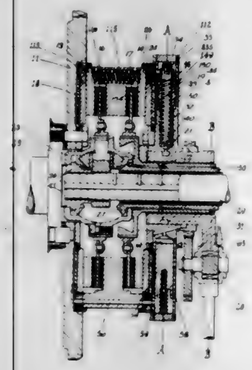


1. Combustion apparatus of the vaporizing type comprising an open topped burner pot having a peripheral channel in the lower part of said burner pot, said channel having upright side walls and a bottom wall, a liquid fuel inlet for supplying fuel to said peripheral channel, a baffle above said peripheral channel which shields the liquid fuel in said channel against direct radiation from the burner flame in all stages of operation above pilot flame, the side wall of said burner pot having spaced air inlet holes including a plurality of holes in the lower part of the side wall for supplying air to the fuel vapor immediately as the liquid fuel in said channel vaporizes.

2,535,924
POWER TRANSMISSION APPARATUS
Howard Frederick Hobbs, Leamington Spa, England, assignor to Hobbs Transmission Limited
Application July 3, 1946, Serial No. 681,321
In Great Britain July 9, 1945
9 Claims. (Cl. 74—330)

1. A power transmission apparatus comprising a first rotary member, at least two hydraulically operated clutch engaging rings carried by said first rotating member, a second and a third rotary member, clutch members secured to each of the said second and third rotary members,

said clutch engaging rings hydraulically engageable with the said clutch members, the first rotary member having spaces for receiving fluid under pressure for actuating said rings, at least one valve device carried by said first rotary member, a valve piston in said device, spring means for holding said piston inwardly and yielding outwardly by centrifugal force, a spring pressed



element carried by said first rotary member and acting on said valve piston to locate it in positions at the ends of its travel, said valve device having ports which are controlled by said piston for filling and exhausting the said fluid spaces whereby the clutches are engaged or disengaged when said piston is located in each of its two positions.

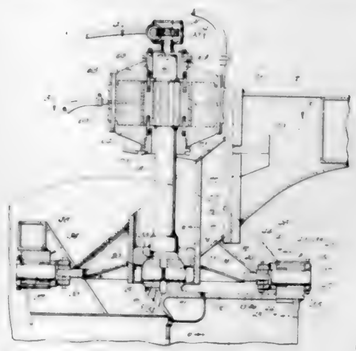
2,535,925
METHOD OF DRYING WOOD
Monie S. Hudson, Spartanburg, S. C.
No Drawing. Application June 30, 1945, Serial No. 602,688
5 Claims. (Cl. 34—16.5)

1. The process of drying wood with organic vapors which comprises subjecting the wood in a closed space to an initial drying period by introducing into said closed space vapors of an organic liquid maintained at a temperature sufficiently high to liberate rapidly as water vapor the moisture in the wood while continuously removing liberated water vapor and spent organic vapor from said closed space, discontinuing the introduction of said organic vapors when the amount of moisture liberated from the wood indicates that the moisture content of the outer sections of the wood being dried has been lowered to the fiber saturation point during said initial drying period, subjecting the wood to vacuum following said initial drying period by impressing a vacuum on said closed space for a period of the order of the duration of the initial vapor drying period annd thereby allowing redistribution of the moisture remaining in the wood from the inner sections to the outer dried sections, and then alternately repeating said organic vapor drying and vacuum treatments until the wood has been dried as desired while avoiding further drying of the outer sections of the wood too far below the fiber saturation point before sufficient drying has been effected in the inner sections of the wood.

2,535,926
VENETIAN BLIND
Joseph L. Hunter and Thomas Martin, Riverside, Calif., assignors, by mesne assignments, to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware
Application March 1, 1948, Serial No. 12,447
11 Claims. (Cl. 160—178)

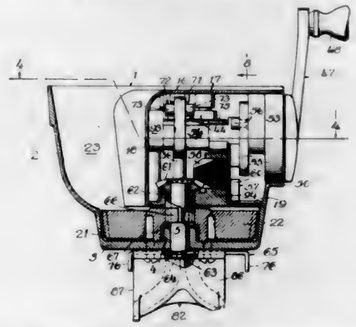
1. A Venetian blind ladder comprising flaccid vertical tapes and semi-rigid cross bars connected to and extending between said tapes, at least the major portion of said cross bars having substantially greater rigidity than the vertical tapes.

2,535,927
HITCH CONSTRUCTION
Loiell L. Hyler, Cedar Rapids, Iowa, assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application July 22, 1946, Serial No. 685,433
4 Claims. (Cl. 280—33)



4. In a vehicle including a trailer and a prime mover, the combination of a ball-like support on said prime mover, an upstanding element having a substantially hemispherical socket on the lower end thereof for receiving said support to provide a ball-and-socket connection, said ball and said socket having alignable apertures therein, pin means extending through said apertures for locking said element against rotation relative to said prime mover while permitting pivotal movement at right angles to said pin means, a hollow pedestal surrounding said element and secured in nonrotatable relation to said trailer, a rigid substantially conical skirt extending outwardly from said pedestal and terminating in an annular flange disposed in a plane coincident with the axis of said pin means, a pair of bearings disposed on opposite sides of said pedestal and engaging said flange to support said pedestal for rotation relative to said prime mover, means including pins coaxial with said pin means mounting said bearings for pivotal movement to permit pivoting of said pedestal with said member, segmental cover members of substantially U-shaped cross section extending between said bearings and embracing said flange to provide a continuous dust shield and lubricant container therefor, and means for effecting relative rotation between said element and said pedestal to steer said vehicle.

2,535,928
CHERRY PITTER
Clifford E. Ives, Wilmette, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 7, 1948, Serial No. 43,076
1 Claim. (Cl. 146—19)



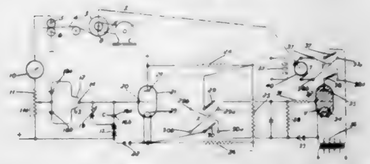
An apparatus for pitting cherries comprising, a principal housing member defining a cherry storage and supplying hopper and a conveyor supporting base, said base having a bottom wall in which are formed cherry pit and pitted cherry discharge openings as well as a conveyor drive shaft journal opening, a rotary disc conveyor seated in said base having a circular alignment of holes for receiving individual cherries from said hopper, a secondary housing member vertically slidable into for nesting within said principal housing member containing a cherry pitting punch and a cherry discharging plunger supported in vertical parallel alignment over said discharge openings in said base, spring means for yieldably maintaining said punch and plunger poised over said discharge openings, a horizontal drive shaft rotatably carried by said secondary housing member including a Geneva driving disc and a crank pin disc for engaging and depressing said punch and plunger, a Geneva driven disc including integrally associated meshing gear engagement with said conveyor drive shaft whereby to impart intermittent advancing movement to said conveyor so as to progressively align its spaced holes beneath said punch and plunger, and a locking bar having a keyhole opening to be saddled upon a portion of said conveyor shaft protruding through said base whereby said bar may be utilized in the instantaneous assembly or disassembly of said secondary housing member and its contained elements with respect to said principal housing member.

2,535,929
VISOR MOUNTING DEVICE
Clare S. Jacobs, Grosse Pointe Park, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application January 29, 1949, Serial No. 73,458
1 Claim. (Cl. 287—93)

A mounting device for glare shields comprising a bracket having a base wall adapted for attachment to an automobile body header and an integral portion disposed rearwardly of said base wall having a chamber therein, said integral portion having a tapered aperture therein; a bent arm carried by said bracket for swinging movement about the axis of said aperture, said arm including a tapered portion received in said aperture and having a circumferential groove adjacent the tapered end thereof, and means for retaining said arm in said aperture and for urging it axially thereof comprising a U-shaped leaf

spring having a bifurcated end portion engaging said groove and an opposite end bearing on the wall of said chamber.

2,535,930
MEANS FOR THE AUTOMATIC REGULATION OF THE ACTION OF MACHINES FOR THE CONTINUOUS PROCESSING OF MATERIALS
Eric Harding Jones, Manchester, England, assignor of one-half to The British Cotton Industry Research Association, Shirley Institute, Didsbury, Manchester, England
Application July 16, 1947, Serial No. 761,394
In Great Britain December 5, 1944
17 Claims. (Cl. 34—41)

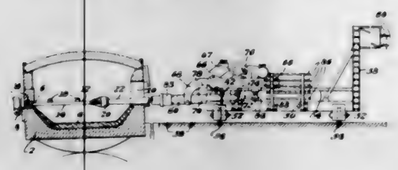


1. The method for the automatic regulation of the action of machines for the continuous processing of materials wherein a property of the material, such as its moisture content, is caused to vary a potential in part of an electric circuit and such potential variation is used to regulate the machine, including the steps of obtaining a series of electric charges periodically from such potential, effecting leakage of each charge, and using each leaking charge to control automatic regulation of the machine approximately proportional to such charge.

2,535,931
METHOD OF RECLAIMING ELASTOMERS
John H. Kelly, Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application September 18, 1947, Serial No. 774,883
15 Claims. (Cl. 260—2.3)

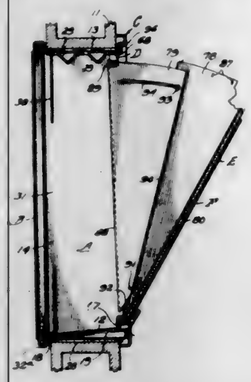
1. A method of reclaiming a vulcanized rubbery mass comprising at least one polymerization product of a material having a conjugated diolefinic compound as a main polymerizable component, which method comprises heating said rubbery mass at elevated temperature, above 200° F. but not appreciably above 400° F., in the presence of a relatively small amount of a compound having at least three carbon atoms in an alkyl group thereof, selected from the group consisting of alkyl phosphates, alkyl phosphoric acids and alkyl phosphoric acid salts, said group members being further characterized in that all hydrocarbon groups are mono-valent, said compound being distributed through said rubbery mass during at least part of said heating, whereby plasticization of said rubbery mass occurs.

2,535,932
TAPPING HOLE REAMER
Steve W. Kemock, Chicago, Ill.
Application February 10, 1945, Serial No. 577,295
1 Claim. (Cl. 266—42)



Apparatus for reaming the tap hole of a melting furnace having a refractory lining, a charging door in the front wall and a tap hole in the rear wall, said apparatus comprising a charging machine outside of the front of the melting furnace and having a ram, means for advancing and retracting the ram through the furnace charging door and means for rotating the ram, and a tap hole reamer having means at one end for detachably securing the same to the ram of the charging machine to be advanced and retracted through the furnace charging door and rotated by the ram and having a cutting head at the other end, the tap hole reamer being of such length that, on advancing the ram through the furnace door with the reamer attached thereto, the cutting head of the reamer is fed through the tap hole from the interior of the furnace outwardly and rotated for reaming deposited metal and slag from the tap hole without injuring the furnace refractory lining.

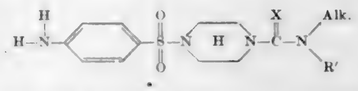
2,535,933
WINDOW AND WALL VENTILATOR
Otto Kubatzky, St. Louis, Mo., assignor to Winco Ventilator Company, St. Louis, Mo., a corporation of Missouri
Application September 30, 1946, Serial No. 700,308
10 Claims. (Cl. 98—88)



1. In a ventilator for wall structures including masonry, glass blocks or the like, a substantially rectangular main casing for engagement in an opening in the wall structure and having means for securing it in place with its interior and exterior edges extending substantially flush with the corresponding wall surfaces, an architrave or trim frame secured to the inner edge of the main frame, covering the same and immediately adjoining wall surface, the lower portion of said architrave frame having a longitudinal trough along its upper edge, end shield members comprising primary and secondary segments in overlapping relationship and overlying the surface of the ends of the main casing when the shields are in ventilator closed position and adapted to be extended with respect to each other and outward of the main casing structure, said shields being supported by said architrave frame trough with the lower end of the primary segments engaging the ends of the trough as an axis about which they swing, pivotal means connecting said secondary segment to the primary segment above the lower end of the primary segment and outward from its swinging axis, a pin and arcuate slot connection between said segments adjacent to their upper ends, means on the casing and architrave frame for latching said primary segments in a plurality of adjusted positions and for limiting the movement of the secondary segment for a maximum ventilator open position of the shields, and a deflecting shield carried by the free edges of said primary segments.

2,535,934
SULFANILYL PIPERAZINES AND METHOD OF PREPARING SAME
Samuel Kushner, Nanuet, and Victor K. Smith, Jr., Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 30, 1949, Serial No. 84,476
6 Claims. (Cl. 260—239.7)

1. Compounds of the group consisting of those having the general formula:

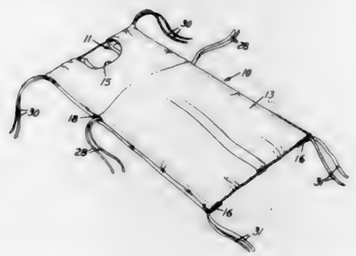


in which X is a member of the group consisting of oxygen and sulfur radicals, R′ is a member of the group consisting of hydrogen and lower alkyl radicals and Alk. is a lower alkyl radical, and acid salts thereof.

2,535,935
GRIPPER FOR PRINTING PRESSES
Chester L. Lance, Dallas, Tex.
Application September 20, 1946, Serial No. 698,223
7 Claims. (Cl. 101—408)

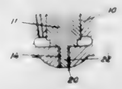
1. A gripper for printing presses having a gripper bar provided with a longitudinal groove and longitudinal slots including, an elongate arm having one end overlying the gripper bar, said overlying end being formed with a bolt-receiving notch extending thereinto and a recess contiguous to said notch, a clamping plate adapted to overlie the notched end of the arm and engage within the recess, and a bolt extending through one of the slots in the gripper bar and said clamping plate for holding the plate and the arm in clamped relation thereto.

2,535,936
BABY'S SLEEPING BAG
Ruth M. Langley, San Gabriel, Calif.
Application December 1, 1949, Serial No. 130,561
4 Claims. (Cl. 128—134)



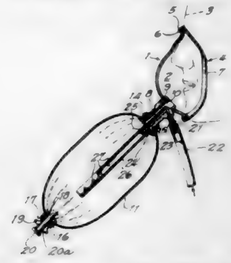
1. In combination in a sleeping bag, an inner bag part comprising top and bottom sheets of material, means detachably coupling the sheets, the top sheet having a neck opening for the occupant, an outer bag part in which the inner part is encased, said outer bag part comprising a bottom member and a top member, the top member having a neck opening for said occupant, means for opening the outer bag part to facilitate the placing of the inner part therein, and means carried by the inner part and extensible through openings in the outer part by which the two parts are held against relative movement and may be secured as a unit to a bed.

2,535,937
FUEL INJECTING MEANS FOR MOTORS
Leon Le Bozec, Courbevoie, and Georges Gautier, Mesnil-le-Roy, France
Application August 8, 1945, Serial No. 609,550
In France July 19, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 19, 1959
2 Claims. (Cl. 299—107.6)



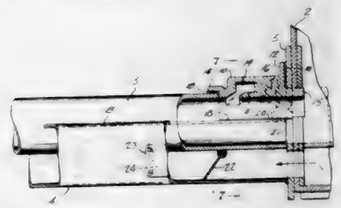
1. A fuel injector comprising a body having a fuel supply chamber therein, said body also having a fuel injector channel therein opening through an orifice in a wall of said chamber, said wall being plane on the interior of said chamber and perpendicular to the axis of said injector channel, said body having a valve element-receiving-bore coaxial with the axis of said channel and extending into said chamber through a wall opposite said plane wall, a valve element axially movably mounted in said bore and provided with a circular end face of larger diameter than the diameter of said orifice, said end face of the valve element being slightly hollow and surrounded by a circular peripheral edge for cooperating with the plane surface surrounding the orifice, and a projection of circular cross section extending axially from the center of the hollow end face of the valve element into the orifice and channel and spaced from the interior edges and surfaces of the orifice and channel in all positions of axial movement of said valve element.

2,535,938
INHALER APPARATUS
Charles F. Lombard, South Pasadena, Calif.
Application December 27, 1946, Serial No. 718,853
4 Claims. (Cl. 128—205)



1. In an inhaler of the kind described, the combination of a mask having a chamber with an open side adapted to be applied to the patient's face to cover his nose and mouth; means for admitting gas to the said chamber; a removable gasket of permeable porous material secured to the edge of said mask and adapted to seat against the surface of the patient's face; said mask having an outlet for the exhalations from the patient; an inflatable body, with means for detachably securing the same over said outlet; said body being of such volume as to become inflated with the first portion of the gases of each exhalation; said gasket constructed so as to permit escape from said chamber of some of the gases exhaled in the latter portion of the act of exhaling.

2,535,939
STOKER, INCLUDING GAS FEEDBACK PREVENTION MEANS
Philip C. Malmsten, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 4, 1946, Serial No. 667,321
4 Claims. (Cl. 110—45)



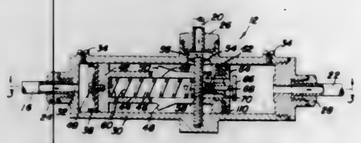
4. In a stoker, the combination of an air duct and a blower to force air forwardly through said duct, a feed screw housing nested within said air duct, a coal feed screw disposed for rotation within said housing, and a removable access plate assembled with said feed screw housing and disposed to overlap said air duct, said plate having a passage extending therethrough and being disposed in a forward direction and aligned at one end with an aperture in said air duct and leading into the feed screw housing at the other end to by-pass air into the feed screw housing from the air duct and to provide positive forward air pressure within the feed screw housing for eliminating backward passage of gases and smoke through the housing when said blower is in operation and forcing air forwardly through said air duct.

2,535,940

SAFETY SWITCH FOR HYDRAULIC BRAKES

Elmer C. Malvin, Cumberland, Ohio, assignor of twenty-five per cent to Frank E. Wilson and twenty-five per cent to Clarence L. Wilson, both of Zanesville, Ohio

Application November 2, 1949, Serial No. 125,115
8 Claims. (Cl. 200—82)



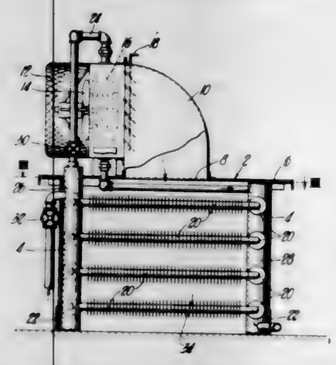
3. A safety device for an hydraulic brake system comprising a tubular casing, a piston slidably mounted in said casing, said piston having an extension attached thereto, said extension having a lock ring thereon, a pin slidably secured transversely of said casing, stop means secured in said casing selectively engaging said lock ring, said lock ring having a cam engaging surface thereon, said pin means selectively closing an electric contact to a signal light when depressed through contact with said cam engaging surface when said stop means engages said lock ring.

2,535,941

STEAM HEATER

Merton M. Marks, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey

Application September 23, 1947, Serial No. 775,579
2 Claims. (Cl. 257—137)



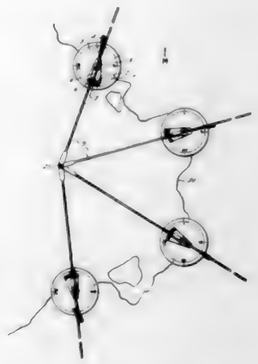
1. A steam heater comprising a frame adapted to rest on the floor, a cover on the top of said frame, said cover having an opening therein of considerably smaller area than said cover, a plurality of spaced apart steam coils on each side of said frame, an air duct mounted on said cover over said opening, the cross-sectional area of said air duct being considerably smaller than the area of said cover, said duct having a substantially vertical section connected to a substantially horizontal section with one end open to the air, steam coils in said duct, a fan in the horizontal section of said duct for causing air to flow from the open end of said duct past the steam coils therein and out through the coils on the sides of said frame, and means for supplying steam to said steam coils.

2,535,942

ELECTRIC DIRECTION FINDING EVALUATOR

John H. Lewis and John L. Allison, New York, N. Y., assignors to the United States of America as represented by the Secretary of the Air Force

Application November 18, 1948, Serial No. 60,768
10 Claims. (Cl. 33—1)



1. An evaluator for use with a direction finding system of the type in which each of a plurality of fixed stations obtains a bearing to an object, said evaluator comprising means providing a map of the operational area of said system, a plurality of protractors corresponding in number to the number of fixed stations and each located on said map with its center coinciding with a point representing the location of a fixed station, means providing an assumed fix point movable over said operational area, means associated with each protractor for producing a voltage proportional to the square of the angular difference between the bearing reported by the corresponding fixed station and the bearing from the point representing said station on said map and said assumed fix point, and means for producing an indication proportional to the sum of said voltages for said plurality of protractors.

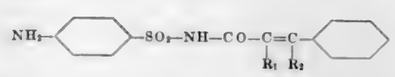
2,535,943

4 - AMINOBENZENE - SULFONAMIDES N'- ACYLATED WITH SUBSTITUTED CINNAMIC ACIDS

Henry Martin, Hans Gysin, and Otto Neracher, Basel, and Rudolf Hirt, Muri, near Bern, Switzerland, assignors to J. R. Geigy A.-G., Basel, Switzerland

No Drawing. Original application May 1, 1944, Serial No. 533,658. Divided and this application June 4, 1947, Serial No. 752,558. In Switzerland May 6, 1943
4 Claims. (Cl. 260—397.7)

1. The p-amino-benzenesulfonamide of the formula



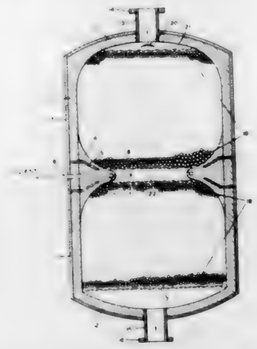
wherein R_1 represents a member selected from the group consisting of methyl and ethyl, R_2 represents a member selected from the group consisting of hydrogen and methyl.

2,535,944

CATALYTIC APPARATUS

Eugene V. Mathy, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 19, 1946, Serial No. 697,964
1 Claim. (Cl. 23—288)



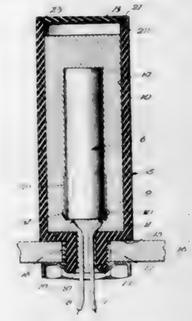
An improved catalytic reactor adapted for endothermic catalytic reactions wherein diluent or reactant gases are introduced into the reaction mixture at an intermediate point, which comprises an elongated vertical cylindrical catalyst-containing chamber internally insulated with refractory cement and having an axial inlet and axial outlet at opposite ends thereof, a catalyst-retaining transverse screen within said chamber near the outlet thereof, and at least one annular structure as described hereinbelow intermediate the inlet and said screen dividing said chamber into at least two sections, each said section having a central cylindrical portion, said annular structure having concave top and bottom surfaces of refractory insulating cement each tangentially joining said central cylindrical portions of their respective sections and regularly converging inwardly and toward each other in smooth unbroken arcuate curves toward but not attaining the horizontal to form a restriction to the flow of fluids passing through said chamber, the inner diameter of said annular structure being such that the restricted opening between the sections has a cross-sectional area of from 25 to 40 per cent that of the cross-sectional area of the cylindrical portions of said sections, a pair of parallel transverse catalyst-retaining screens extending across and adjacent said restriction and together with the inner surface of said annular structure defining a catalyst-free space quite small with respect to the total catalyst volume, the uppermost of said pair of screens plus the upper curved surface of said annular structure being adapted to support a bed of catalyst thereupon whereby said bed of catalyst will have a smoothly curved lower surface corresponding to said upper annular surface, the lowermost of said pair of screens plus the lower curved surface of said annular structure being adapted to confine a bed of catalyst filling the section of chamber therebelow whereby said bed of catalyst will have a smoothly curved upper surface corresponding to said lower annular surface, an annular conduit within each said annular structure, means for supplying fluid to said conduit, and a plurality of inlets extending from said conduit into said space for flow of fluid thereinto for admixture with fluids passing longitudinally through said chamber.

2,535,945

DRY ELECTROLYTIC CONDENSER

Irving J. Menschik and Horace C. Kreinick, Chicago, Ill., assignors to American Condenser Co., Chicago, Ill., a partnership consisting of Irving J. Menschik and Estelle R. Menschik

Application April 10, 1946, Serial No. 660,891
4 Claims. (Cl. 175—315)



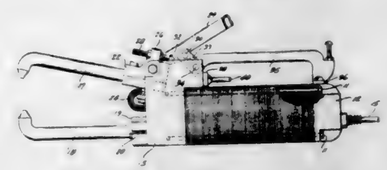
1. As a new article of manufacture, an electric condenser comprising a shell formed of solid, rigid insulating material and consisting of a continuous side wall, a crosswall connected to one end of the side wall and provided with an integral, outwardly extending, single, centrally disposed, tubular neck, and a separate imperforate crosswall serving normally to close the other end of the side wall, and releasably secured in place by a layer of waterproof gummy adhesive positioned between said imperforate crosswall and said side wall so that the crosswall is permitted to move into an open position for shell venting purposes when abnormal pressure develops within the shell and is automatically retracted into its normal closed position after a venting operation and when the pressure within the shell is normal, a self-contained dry electrolytic condenser unit disposed in the shell and in spaced relation with the side and crosswalls and having a plurality of conductors leading from the plates thereof through said neck, and a filling of insulating material disposed in the space between the unit and the shell and serving to support the unit in proper spaced relation with said shell.

2,535,946

PORTABLE MANUAL ELECTRIC SPOT WELDER

Allan C. Mulder, Appleton, Wis., assignor to Miller Electric Manufacturing Co., Appleton, Wis., a corporation of Wisconsin

Application May 26, 1949, Serial No. 95,500
12 Claims. (Cl. 219—4)



1. A manually operated lightweight portable electric spot welder comprising a transformer having a core and end caps, a pair of relatively

movable tongs carried by one of said end caps and connected therethrough to the secondary of the transformer, a carrying handle secured to at least one of said end caps, an operating handle overlying said carrying handle in spaced hand gripping relation thereto and secured to one of said end caps, and a mechanical power multiplier disposed between said operating handle and the relatively movable tongs whereby the manual pressure applied by the operator to said handles is substantially increased between the ends of said tongs.

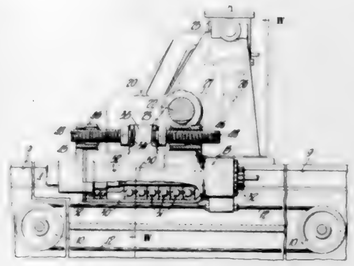
2,535,947
LATCH AND LOCK
Arthur Newell, Minneapolis, Minn.
Application May 2, 1947, Serial No. 745,473
12 Claims. (Cl. 292—5)

5. In combination with a door and frame jamb therefor, of latch and lock mechanisms disposed in the edge of said door in spaced relation, a spindle for said lock mechanism, door knobs on the opposite ends thereof, pivoted locking fingers in said lock mechanism, ball latches for said latch mechanism, metal liners in said latch mechanisms, tensioned follower heads for projecting said ball latches and operating rods between said locking fingers and said follower heads whereby the same will be simultaneously operated upon the rotation of said spindle in either direction.

2,535,948
INCORPORATION OF FINES IN A SILICA-ALUMINA CATALYST
Finley C. Nicholson and Charles Patton Wilson, Cincinnati, Ohio, assignors to The Davison Chemical Corporation, Baltimore, Md.
Application March 25, 1949, Serial No. 83,362
6 Claims. (Cl. 252—455)

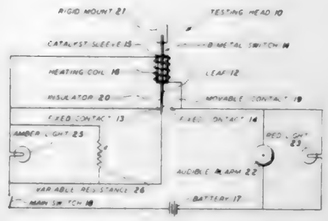
6. In a method of manufacturing a silica-alumina catalyst for fluid catalytic processes in which a slurry of precipitated silica-alumina gel is dried, classified, washed and ground to a particle size of about 20–80 microns, the improvement comprising classifying the gel into an oversized product for grinding and fines in an amount equivalent to about 30 to 60% of the fresh silica-alumina gel, and recycling the fines to the slurry of precipitated gel.

2,535,949
MANDREL POSITIONING DEVICE FOR TUBE MILLS AND THE LIKE
John W. Offutt, Ellwood City, Pa., assignor to National Tube Company, a corporation of New Jersey
Application January 11, 1945, Serial No. 572,283
3 Claims. (Cl. 80—13)



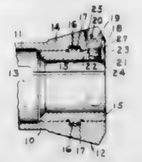
1. In a seamless pipe or tube mill having a reciprocable mandrel bar and an outlet bed including slideways for reciprocating said mandrel bar, a thrust bearing housing supporting said mandrel bar, oppositely disposed longitudinally extending flanges on said housing, the lower surfaces of said flanges adapted to slide on said slideways and the upper surfaces thereof forming secondary slideways, an adjustable saddle mounted on said housing and adapted to ride on said secondary slideways and retractable means engaging said saddle to hold said mandrel bar against longitudinal thrust.

2,535,950
FLAMMABLE GAS DETECTOR
Carl M. Page, Van Nuys, Calif.
Application October 18, 1948, Serial No. 55,222
12 Claims. (Cl. 177—311)



1. In a flammable gas detector, the combination which comprises a catalyst for the combustion of the gas, a resistance element, a bimetal switch disposed adjacent the resistance element in heat conductive relationship, an electrical signal device requiring a relatively high current to operate but which is conductive at lower current, a power source, a circuit connecting the power source to the signal device through the resistance element, the value of which is so high that the electrical signal device does not operate to indicate a flammable gas when thus connected, and a low resistance shunt in the circuit around the resistance element through the bimetal switch and which is closed by the bimetal switch when the latter is heated by the catalyst.

2,535,951
FRONT LOADING COLLET
Albert A. Parigian, Dearborn, Mich., assignor to Modern Collet and Machine Co., Ecorse, Mich., a corporation of Michigan
Application February 16, 1948, Serial No. 8,492
2 Claims. (Cl. 279—46)

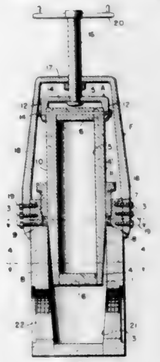


1. A collet comprising a tubular body having spring jaws at one end and having a recess at the outer end of each jaw provided with an opening through the bottom wall thereof, a pad on the inner surface of each jaw having a tapped hole aligned with the opening in the adjacent jaw, studs having threaded shank portions respectively extending through the openings in said jaws and threadably engageable in the tapped holes in said pads, said recess having an arcuate wall generally concentric with the axis of the stud and tapered outwardly with respect to said axis, and round heads on the respective studs engageable with the bottom walls of the recesses to clamp the pads in place and tapered to have a wedging engagement with the tapered arcuate walls of the recesses.

2,535,952
SUCTION BOX FOR PHOTOGRAPHIC ENLARGERS
Lynn E. Partridge, Portland, Oreg.
Application May 24, 1949, Serial No. 94,939
3 Claims. (Cl. 248—363)

1. A device for holding sheets of flexible material firmly against a flat surface comprising a box having imperforate sides and a bottom, and a perforated top against which the sheets of material may be drawn upon the application of suction to the interior of the box, an outer tube extending through the box from side to side and adapted to be connected to means for creating a vacuum, said tube having suction and exhaust apertures angularly and longitudinally spaced from each other, an open-ended valve tube telescoped within said outer tube and having suction and exhaust apertures angularly and longitudinally spaced from each other, said suction apertures of both tubes being in adjacent portions thereof and said exhaust apertures of both tubes being in adjacent portions thereof longitudinally spaced from said first-mentioned adjacent portions, a plug within said valve tube between said suction and exhaust apertures, and a pin projecting from said valve tube, said outer tube having a slot into which said pin projects so as to prevent longitudinal separation of said tubes and to limit relative rotation thereof, said slot being of such length as to limit relative rotation of said tubes to the extent of angular displacement of said suction and exhaust apertures, said suction and exhaust apertures being so arranged with respect to said pin and slot that when said pin is at one end of said slot the suction apertures of said tubes are in registry and the exhaust apertures are out of registry, and when said pin is at the opposite end of said slot the exhaust apertures are in registry and the suction apertures are out of registry, and said valve tube projecting beyond said outer tube whereby rotation thereof may be accomplished manually.

2,535,953
CUTOFF VALVE
George V. Powers, Great Bend, Kans.
Application January 16, 1945, Serial No. 573,003
1 Claim. (Cl. 251—63)

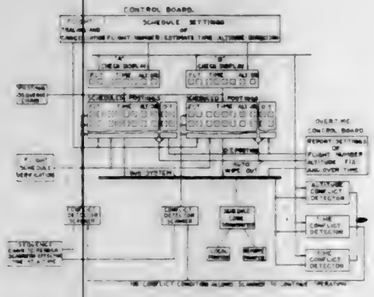


In a cutoff valve, a vertically elongated partially cylindrical body having a downwardly tapering bore closed at its lower end and opening through the top end of said body, said body having oppositely disposed screw-threaded ports opening through the same slightly above the closed bottom of said bore, a vertically elongated partially cylindrical hollow valve element slidably engaged in said bore and having its lower end portion tapered to conform to the taper of the like end of the bore, said body having a screw-threaded counterbore it its top end concentrically related to the upper end of said bore and constituting a packing gland about said valve element, a nut threaded in said counter-bore to compress a packing into contact with said valve element, an inverted substantially U-shaped bracket straddled over the top end of said body and having the ends of its side portions secured at opposite sides of the top end of the body, an inverted substantially U-shaped yoke straddled over the top end of said valve element and having its side portions attached thereto, and an operating screw threaded downwardly through the top portion of said bracket and having its lower end in swivelled connection with said yoke.

2,535,954
AIRWAY TRAFFIC CONTROLLING SYSTEM
Neil D. Preston and Forest B. Hitchcock, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Original application March 31, 1944, Serial No. 528,926. Divided and this application January 16, 1946, Serial No. 641,588
54 Claims. (Cl. 177—353)

1. In an airway traffic control system, a plurality of fix panels each including a plurality of

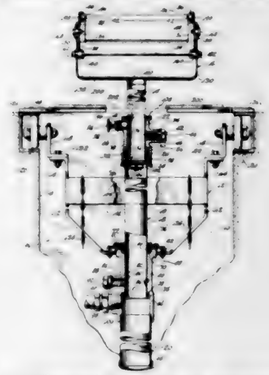
rows of changeable indicators for registering the data for different scheduled flights, a check display unit associated with each fix panel and having a single row of changeable indicators for registering the data relating to that fix for a given proposed flight, a control panel having a plurality of manually operable fix identifying buttons one for each fix, means including said manually operable fix identifying buttons for setting up the data for a given proposed flight in the appropriate check display units for the fixes included in the route of such flight, and posting means for directly transferring the data for such proposed flight from such check display units to their respective fix panels and into a particular row of indicators automatically selected by said posting means.



36. In an airways traffic control system, a plurality of fix panels each comprising a number of registration spaces having indicators for posting flight data including an identifying flight number and reported overtime, sets of buses for governing the operation of said indicators, Teletype apparatus for making a punched tape record of code messages for overtime reports including fix designation, flight number and reported time, and decoding means controlled by said punched tape for governing the energization of said buses to cause operation of the overtime indicators in the registration space of the designated fix panel having posted therein the same flight number.

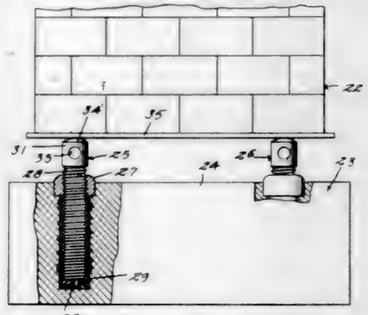
2,535,955
COLLAPSIBLE DRAIN
Charles F. Raisch, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application November 28, 1947, Serial No. 788,417
15 Claims. (Cl. 184—1.5)

1. In a draining device for facilitating draining of the crankcase, differential or like parts of an automotive vehicle, the combination comprising a funneling pan having an outlet formed therein, an intercepting pan assembly adapted to be extended in a substantially horizontal plane from said funneling pan for conveying draining lubricant thereto, a telescopically movable tube assembly communicating with said outlet for supporting said pans for movement as a unit about a vertical axis and for elevation into close proximity to the underside of said vehicle, and means for pivotally securing said intercepting pan assembly to said funneling pan for movement between a substantially horizontal draining posi-



tion and a collapsed position in alignment with said tube assembly for storage.

2,535,956
METHOD OF FORMING SCREW JACKS WITH CONCRETE BASES
Lutie A. Roggensack, Fargo, N. Dak.
Application September 24, 1945, Serial No. 618,308
1 Claim. (Cl. 25—155)

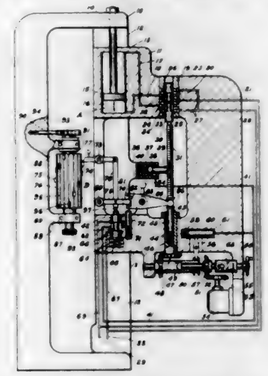


The method of forming a screw jack structure with a concrete base which includes encasing the screw of the jack in a covering, disposing the nut for the screw at the upper end of the covering, and extending the covered screw and at least a portion of the nut into the concrete while the concrete is plastic whereby the nut will be anchored in the concrete and the screw will be free to rotate through the nut and within the covering.

2,535,957
PRECISION POSITIONING MECHANISM
Millard Romaine and Erwin G. Roehm, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application July 31, 1947, Serial No. 765,154
12 Claims. (Cl. 121—45)

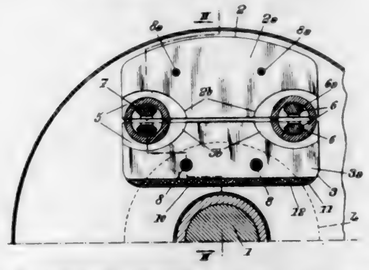
1. A machine tool or the like including a pair of relatively movable parts, a hydraulic piston and cylinder mechanism for effecting said relative movement, a source of hydraulic actuating medium, a servo mechanism including a translatable valve for controlling the flow of actuating medium as respects the piston and cylinder elements, a first means for effecting translating

movement of the valve, means for rendering said valve translating means ineffective, alternatively effective means for holding the valve against movement when the translating means are rendered inoperative, said valve translating means including a releasable screw and nut mechanism



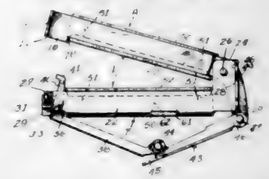
and said holding means including a hydraulically actuable clamp, a hydraulic control circuit, and trip operable means for effecting energization of said hydraulic control circuit, said circuit having connections effective simultaneously to disengage the screw nut mechanism and to actuate the clamp.

2,535,958
CENTRIFUGAL PENDULUM VIBRATION DAMPER
Gilles Francois Sarazin, Paris, France
Application July 7, 1948, Serial No. 37,438
In France July 8, 1947
5 Claims. (Cl. 74—574)



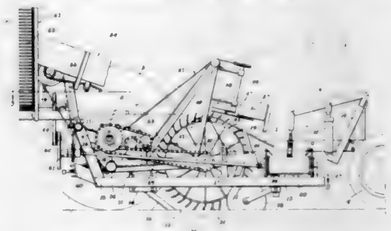
1. A vibration damper for use on a rotating body which comprises, in combination, rotary supporting elements carried by said body, an oscillating pendular mass element movably mounted on each supporting element respectively, each element being provided with two sets of recesses, each set forming a row parallel to the rotation axis of said body, the recesses of each supporting element being located opposite the recesses of the corresponding pendular mass element, respectively, two rods carried by every element parallel to said axis, extending each across the recesses of the respective rows of recesses of said element, the portions of said rods in said last mentioned recesses having convex rolling outer surfaces, and rings passing each through one of said recesses of a pendular mass element and the opposite located recess of the corresponding supporting element, said ring having rolling inner surfaces in engagement with the convex rolling surfaces of the two rods passing through said two last mentioned recesses respectively, so as to roll with respect to both of said rods.

2,535,959
HAIR-WAVING DEVICE
Rudy A. Satrian, Chattanooga, Tenn.
Application April 21, 1948, Serial No. 22,335
1 Claim. (Cl. 132—33)



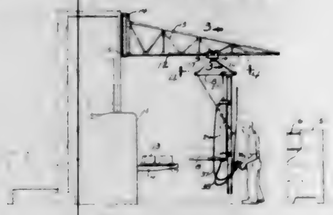
A hair waving device comprising a pair of clamping jaws pivotally connected together at one of the ends thereof, a pair of toggle levers pivotally connected together at one of the ends thereof, one of said levers having its other end pivotally connected to an end of one of said jaws and the other lever having its other end pivotally connected to the second jaw at the end thereof opposite from the point of pivotal connection of said one lever with said one jaw, said one jaw having an apertured angle portion extending from its unpivoted end, an angled arm integral with the end of said other lever which is pivoted to said second jaw, and a latch element offset from the free end of said angled arm and adapted to engage in said aperture to automatically lock said jaws together, when said levers are actuated to close the jaws relatively to a bobbin supported between the jaws.

2,535,960
TRACTOR-MOUNTED BEET HARVESTER
Lewis W. Schmidt, Rio Vista, Calif., assignor of twenty-one and one-fourth per cent to Claude A. Loucks, thirty-six and one-fourth per cent to Lloyd K. Schmidt, twenty-one and one-fourth per cent to Albert M. Jongeneel, and twenty-one and one-fourth per cent to Harriet Guernsey du Bose executrix of George P. du Bose, deceased
Application September 8, 1947, Serial No. 772,798
13 Claims. (Cl. 55—106)



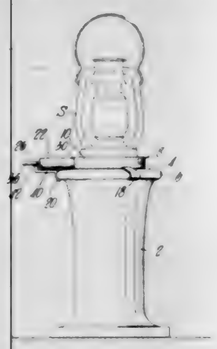
1. A beet harvester for a wheel-type tractor, comprising a frame assembly adapted to extend lengthwise along one side of the tractor, said frame assembly including a longitudinal main frame and a longitudinal secondary frame arranged in normally vertically floating relation to the main frame, and a beet digging and elevating mechanism on the frame assembly including a spiked, beet pick-up wheel journaled on the secondary frame for ground engagement; the main frame being vertically adjustable.

2,535,961
HOIST OR OFF-BEARER
Walter G. Schutt, Adrian, Mich., assignor to Stearns Manufacturing Company, Adrian, Mich., a corporation of Michigan
Application August 26, 1948, Serial No. 46,332
5 Claims. (Cl. 212—32)



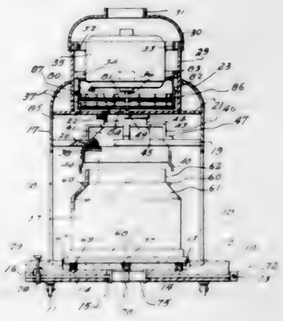
1. A hoist or off-bearer for use for concrete block forming machines or for other elevating and conveying operations having in combination a beam forming a track swinging in substantially a horizontal plane, a trolley adapted to be moved along the beam on the track, a vertical track hung from said trolley by a swivel, control handles and fluid control valves secured to said vertical track, a piston and fluid operated cylinder, one of them held against vertical movement and the other movable along said vertical track, one or more lifting arms secured to the movable member and extending laterally to support the work to be handled, and flexible hose connecting the cylinder with the hand controlled fluid valves, whereby by maneuvering the handles and operating the valves one can maneuver the lifting arms and apply fluid pressure in the cylinder to elevate or lower the said arms.

2,535,962
BRACKET FOR SIGNAL LANTERNS
Felix Sherman, Glassport, Pa.
Application March 2, 1950, Serial No. 147,169
3 Claims. (Cl. 248—229)



1. A bracket assembly for holding a signal lamp fixed in place on the top surface of a vertical support, said assembly including a ring member having a hole through one side thereof, a plurality of lugs attached to said ring in spaced relation around its outer circumference and extending therefrom to grip the edges of said top surface, a ball disposed in said hole with a portion thereof projecting from both sides of said hole, spring means contacting the portion of said ball projecting outwardly of said ring for urging said ball inwardly toward the center of said ring, and a pin projecting from the inner wall of said ring at a point opposite said hole, said ball and said pin cooperating to hold the base of a signal lamp yieldably in said ring.

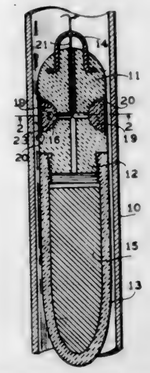
2,535,963
VACUUM CLEANER
Marshall G. Sisemore, Tulsa, Okla.
Application June 10, 1947, Serial No. 753,697
2 Claims. (Cl. 183—37)



1. In a vacuum cleaner, a base, a housing mounted upon the base and having an opening formed in its side near its bottom, a substantially horizontal platform mounted upon the base within the housing, a transparent dirt collecting receptacle mounted upon the platform and provided at its top with a neck, springs arranged beneath the platform to elevate it and permit the lowering of the platform for removal of the receptacle, a hose detachably connected with the side of the receptacle beneath its neck, a hood mounted within the housing above the transparent receptacle and having its lower end open to receive the neck and having an upper reduced end, a compressible gasket within the hood to receive the neck therein and form therewith an air tight joint, a horizontal plate within the upper end of the housing and having an opening to receive the upper reduced end of the hood, a suction device within the housing above the horizontal plate including rotary fan means, a motor to drive the fan means, and a dirt strainer within the hood above the gasket.

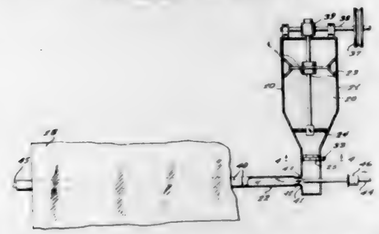
2,535,964
MEANS FOR CASING CUTTING
Austin N. Stanton, Garland, Tex., assignor of fifty per cent to John J. Fleet, San Antonio, Tex.
Application July 30, 1945, Serial No. 607,716
9 Claims. (Cl. 166—1)

1. A well pipe cutting apparatus including a solid body of heat resisting material adapted to be lowered into a well pipe and having an outer surface provided with recesses of predetermined depth and size circumferentially spaced about said outer surface, an axial passage extending through said body, a plurality of lateral passages communicating between said axial passage and said recesses, and a mixture of equal molecular parts of iron oxide and aluminum contained in said recesses for presentation to an area of said well pipe to be removed, identical to the area of said recesses, electrical current conducting means in said passages, and means embedded in said mixture energizable by current produced in said latter means for generating heat to effect ignition and consequent fusion of said mixture to melt



adjacent areas of said well pipe by physical proximity and contact of said fused mixture.

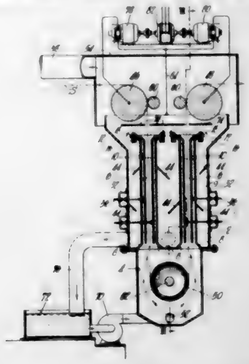
2,535,965
POWDER APPLICATOR FOR PRINTING MACHINES
James C. Sutton and Boyce T. Sutton, Lyman, S. C.
Application September 14, 1948, Serial No. 49,214
3 Claims. (Cl. 91—44)



1. A powder applicator for applying talc to a printing blanket in a textile printing machine comprising a perforated, elongated conduit having an open Venturi shaped throat at one end, means for supplying talc to said Venturi shaped throat, a tubular nozzle connected to a source of compressed air and disposed in the center of said Venturi shaped throat whereby compressed air is delivered into said Venturi shaped throat and said talc is forced into said conduit and through the perforations onto said blanket.

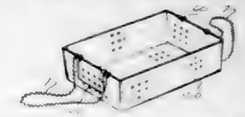
2,535,966
ELECTROLYTIC APPARATUS FOR CLEANING STRIP
Alfred Teplitz, Pittsburgh, Pa.
Application February 7, 1947, Serial No. 726,995
4 Claims. (Cl. 204—206)

1. Electrolytic cleaning apparatus comprising a vertical tank, a pair of conductor rolls over which a strip passes into and out of the tank, a sink roll at the bottom of the tank around which the strip passes, a chamber in the bottom of said tank containing said sink roll, a pair of restricted passageways in said tank leading upwardly from said chamber, said passageways forming the only outlets from said chamber, a pair of electrodes in each of said passageways, said strip passing downwardly between one of said pairs of electrodes and upwardly between the second of said pairs, means for introducing the electrolyte into the chamber and causing it to flow upwardly in each passageway, cascade plates above said chambers and adjacent said



passageways over which the electrolyte flows after passing between the electrodes to release gases entrained therein, and means below said cascade plates for returning the electrolyte to the bottom of the tank.

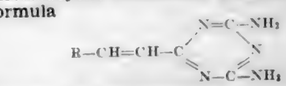
2,535,967
DEVICE FOR WASHING VEGETABLES AND THE LIKE
Estelle Thiermann, Chicago, Ill.
Application January 2, 1947, Serial No. 719,804
3 Claims. (Cl. 4—189)



1. A kitchen utensil comprising a foraminous basket and freely flexible supporting means therefor, said supporting means being freely yieldable in all directions and of such length that when connected with a sink faucet, the basket will be suspended for free oscillation.

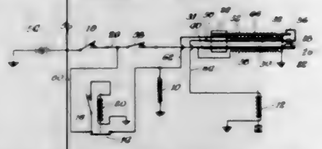
2,535,968
HETEROCYCLIC GUANAMINES
Jack Theo Thurston, Cos Cob, and Donald William Kaiser, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 13, 1945, Serial No. 588,256
2 Claims. (Cl. 260—249.9)

1. Heterocyclic substituted guanamines having the formula



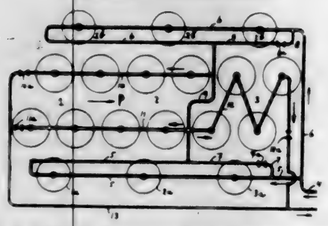
in which R is a substituent group containing a ring structure selected from the 5 and 6 membered heterocyclic rings in which oxygen is the only hetero atom, in which nitrogen is the only hetero atom, and in which sulfur is the only hetero atom; said substituent group containing a conjugated system of double bonds and being linked to the 2-carbon atom of the triazine residue by a carbon-to-carbon bond.

2,535,969
HEATER CONTROL SYSTEM WITH TIME-DELAY SWITCH
Vernon N. Tramontini, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 14, 1946, Serial No. 697,127
2 Claims. (Cl. 158—28)



1. In a heater control system having a main electric circuit intended to be connected to a source of electric potential having widely fluctuating voltage characteristics, an igniter circuit connected to said main circuit including an igniter of the hot wire resistance type and an igniter switch for de-energizing said igniter in response to combustion, and a fuel control circuit connected to said main circuit including an electrically actuated fuel valve, a pair of contacts controlling said fuel control circuit, thermostatic means connected to tend to move one of said contacts toward the other slowly and finally to reach an equilibrium position when heated, a heater for said thermostatic means energized by said main circuit, second thermostatic means connected to tend to move the other of said contacts away from the first when heated, a second heater for said second thermostatic means energized by said igniter circuit, the last said thermostatic means and heater having characteristics such that they at first produce movement of the last said thermostat at a slower rate than the first said thermostat but ultimately cause greater movement of said last said thermostat before reaching an equilibrium position, and lost motion means connecting the last said thermostatic means to said other contact.

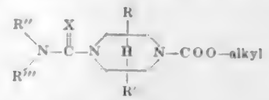
2,535,970
PAPER MACHINE
Bruno Trevisan, Balsthal, Switzerland, assignor to Papierfabrik Balsthal A. G., Balsthal, Switzerland
Application September 13, 1947, Serial No. 773,902
In the Netherlands October 25, 1946
7 Claims. (Cl. 34—119)



1. In a drying apparatus for a paper making or like machine comprising a plurality of series of drying cylinders, means for feeding a continuous web over the cylinders in series, a heating water inlet disposed in the rear portion of the apparatus in the direction of movement of the web, and means for passing a heating water flow continuously through the respective series of cylinders in countercurrent with the travel of the web through the cylinders lying before the heating water inlet, and opposite thereto in others.

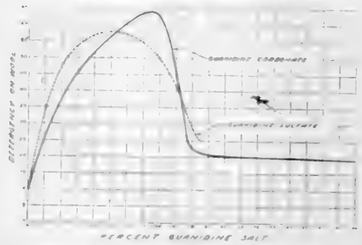
2,535,971
1-CARBALKOXY-4-SUBSTITUTED PIPERAZINES
Richard Joseph Turner, Somerville, and Hugh Wendell Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 15, 1948, Serial No. 54,816
6 Claims. (Cl. 260—268)

1. A 1-carbalkoxypiperazine having the general formula:



wherein R, and R' are members of the group consisting of hydrogen and lower alkyl radicals, R'' and R''' are members of the group consisting of hydrogen and alkyl radicals, and X is a member of the group consisting of oxygen, sulfur and imino radicals.

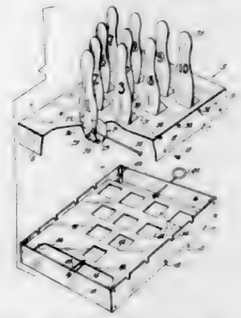
2,535,972
ALKYLBENZENESULFONATE DETERGENTS CONTAINING GUANIDINE SALTS OF INORGANIC ACIDS
Emil A. Vitalis, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application April 26, 1949, Serial No. 89,581
6 Claims. (Cl. 252—152)



1. A composition consisting essentially of a detergent mixture of 98% to 50% by weight of a member of the group consisting of sodium, potassium and ammonium salts of an alkylbenzenesulfonate containing a single long alkyl radical of 10–16 carbon atoms and 2% to 50% of a water-soluble guanidine salt of an inorganic acid.

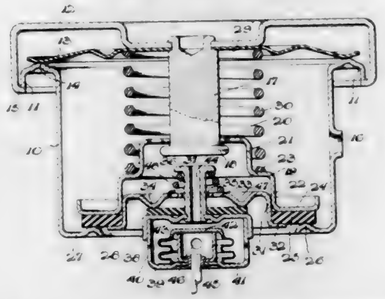
2,535,973
TOY TENPIN GAME
Frederick Voges, Chicago, Ill., assignor to Advertising Ingenuities, Inc., Chicago, Ill., a corporation of Illinois
Application August 2, 1946, Serial No. 688,027
6 Claims. (Cl. 273—102)

1. A bowling game toy comprising an open-top box-like lower part and an open-bottom, box-like upper part adapted for assembly therewith with their edges overlapping to form a complete box, the top of said box having a plurality of pairs of slots therein, a group of simulated tenpins, erect on the top of said box and in conventional array, a plurality of shafts extending transversely between opposite sides of said box top, there being one shaft for each transverse row of tenpins, a U-shaped cam member having a downwardly and rearwardly sloped cam surface at the front thereof secured adjacent the base of each tenpin, the legs of the U passing through each pair of slots and being pivotally mounted on one of said shafts, a flat cam-actuating member common to all said cams and having portions en-



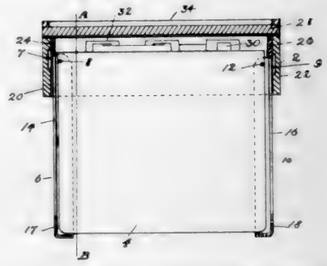
gageable with said cam surfaces movably mounted in said lower box part, said tenpins being tippable from erect to supine position upon being struck, and restorable to erect position upon operation of said cam-actuating member.

2,535,974
THERMOSTATICALLY CONTROLLED PRESSURE CAP FOR RADIATORS
William M. Watkins, Jr., Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application July 2, 1947, Serial No. 758,679
5 Claims. (Cl. 236—92)



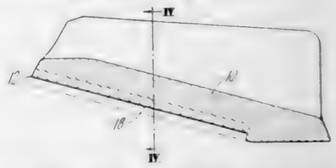
1. In a thermostatically controlled pressure cap for radiators, in combination with a filler neck having venting means and a cap for closing the end of said filler neck, combined thermostatically and pressure operated valve mechanism for controlling the venting of the radiator through said neck including a valve member carried by said cap for subjection to the radiator pressure, means providing a venting port cooperating with said valve member, a spring cooperating with said valve member to predetermine the pressure at which said valve member will open, said valve member including means providing a second venting port, a second valve member cooperating with said second port, a thermostat operatively connected to said second valve member, said second valve member and thermostat being carried by said first valve member and predetermining the temperature at which said second port is opened and closed, said first valve member including means providing a third venting port, and a third valve member carried by said first valve member and cooperating with said third port.

2,535,975
STORAGE BATTERY CRADLE
James C. Weaver, Richmond, Va.
Application October 8, 1948, Serial No. 53,500
3 Claims. (Cl. 217—47)



3. In a foldable device for shipping storage batteries, in combination; a rectangular frame having sides and ends of substantial depth; a removable cover on the frame; stirrups arranged crosswise of the frame and within the frame and adjacent each end of the frame, the said stirrups being pivoted to swing to positions within the frame and also to swing to positions opposing one another and substantially at right angles to the plane of the frame and against the end pieces of the frame; and on the inner surfaces of the frame projecting ledges arranged above the pivoted ends of the stirrups and adapted when the stirrups are swung out from the frame to transmit the weight of the frame and of superimposed objects to the legs of the stirrups.

2,535,976
ROTARY ROLLING MILL GUIDE
William T. Wehman, Elyria, Ohio, assignor to National Tube Company, a corporation of New Jersey
Application August 28, 1945, Serial No. 613,086
2 Claims. (Cl. 80—13)

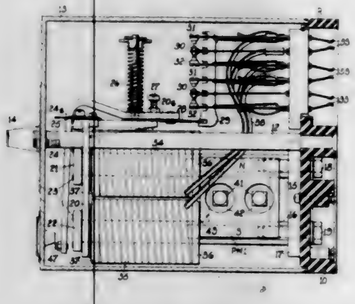


1. In a seamless tube mill including at least two rotary rolls adapted to engage and helically advance a workpiece, a guide for the workpiece interposed between said rolls comprising a wear resisting member and a holder therefor, said members being superposed with frictional surfaces therebetween, the plane of said surfaces being normal to a plane through the longitudinal axis of the pass of the mill which has been advanced a few degrees from the vertical in the direction of rotation of a workpiece engaged by said rolls.

2,535,977
MAGNETIC STICK RELAY
Joseph E. Willing and George E. Duffy, Sr., Rochester, and Carl E. Stevenson, Macedon, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application September 27, 1949, Serial No. 118,104
4 Claims. (Cl. 175—339)

1. A magnetic stick relay for attracting and releasing a biased armature in response to ener-

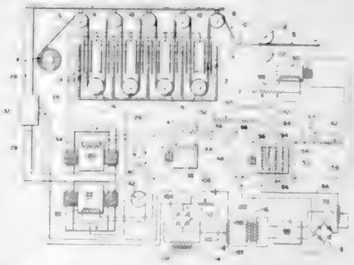
gization of opposite polarities respectively and also maintaining said armature in its last actuated position during deenergization of the relay, said relay comprising in combination, a pair of cores with enlarged pole pieces at corresponding ends, a permanent magnet and a yoke of magnetic material connected across said cores at their other ends, said yoke providing a magnetic shunt path for said permanent magnet and such path being proportioned with respect to said permanent magnet to be substantially saturated by the permanent magnet alone, a movable armature extending across said pole pieces, said armature being biased to its retracted position by a force permitting said permanent magnet alone to hold said armature in its attracted position in opposition to said biasing force but preventing said permanent magnet alone from moving said armature from its retracted position, a winding located



on said cores between said permanent magnet and said pole pieces, said winding when energized with one polarity of current acting to send flux through said pole pieces and armature in addition to the flux provided by said permanent magnet and thereby actuate said armature to its attracted position, said winding when energized with the opposite polarity of current of a comparable intensity acting to reduce the flux through the pole pieces and armature provided by said permanent magnet and thereby cause said armature to assume or remain in its retracted position, said permanent magnet being of a material to withstand the demagnetizing effect of energization of said winding with such opposite polarity, said armature under the influence of the permanent magnet alone and while said winding is deenergized remaining in the attracted or retracted position resulting from the immediately preceding energization of said winding.

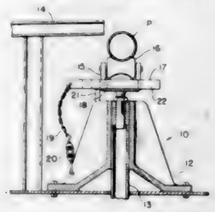
2,535,978
PICKUP CIRCUIT
William E. Winterhalter, Coshocton, and Edwin E. Vonada, Cleveland, Ohio
Original application September 26, 1945, Serial No. 618,664. Divided and this application December 9, 1949, Serial No. 132,028
2 Claims. (Cl. 171—97)

1. A pickup circuit comprising a full wave rectifier, means for connecting a low voltage source to said rectifier, means for connecting an alternating current source to said rectifier, a pair of circuits emanating from the positive terminal of said rectifier, one of said circuits passing through the low voltage source, a half wave rectifier, part of a voltage divider and back to the negative terminal of the rectifier, the other of said circuits passing through circuit balancing means, a second half wave rectifier, the remaining part of said voltage divider and back to the negative ter-



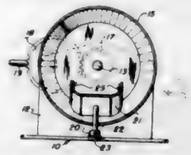
minal of the rectifier, and output terminals connected to the ends of said voltage divider.

2,535,979
MECHANISM FOR EJECTING ARTICLES FROM ELEVATORS
Frank J. Witte, Ellwood City, Pa.
Application January 18, 1949, Serial No. 71,515
2 Claims. (Cl. 214—95)



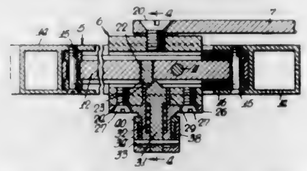
1. In an elevator having a fixed mounting and a vertically movable lifting element, a mechanism for ejecting articles sideways from said lifting element comprising a lever pivoted to said lifting element on the side toward which articles are ejected, said lever having a first arm which is bifurcated and extends on each side of said lifting element below the position normally occupied by articles thereon and a second arm extending away from said lifting element, counterweights on said first arm, and flexible means connecting said second arm to a point fixed with respect to said mounting, said flexible means turning said lever about its pivot when said lifting element is raised so that said first arm moves into the space normally occupied by articles on said lifting element, said counterweight returning said lever to its initial position when said lifting element is lowered.

2,535,980
HARD-BOILED EGGSHELL REMOVER
Charles K. Yeamans, Houston, Tex.
Application June 16, 1947, Serial No. 754,966
2 Claims. (Cl. 146—2)



1. In a device of the class described, a bracket, a drum mounted for horizontal rotation on said bracket, said drum having one end open and its other end closed, means mounted on said bracket and operatively connected with the closed end of said drum for imparting rotary motion thereto, a substantially U-shaped member having spaced relatively broad side portions projecting inwardly at the open end of said drum adjacent to the lower part of the side wall thereof and adapted to receive between said portions an egg placed within the drum upon the said lower part of the drum side wall, teeth formed along the opposed surfaces of the side portions of said U-shaped member, said teeth engaging the egg when the egg is placed within the drum, and means on said bracket for supporting the outer end of said member.

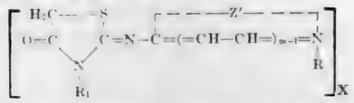
2,535,981
DOOR HOLDER
Benjamin S. Bernhard, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application January 12, 1946, Serial No. 640,706
1 Claim. (Cl. 292—277)



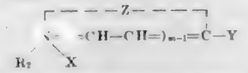
In a door holder, a track, a slide slidable thereon, an arm connected to said slide, latching means between said slide and track, said latching means comprising a latching abutment and a latch for cooperation therewith, said latch including a tail, a manually actuable cup for actuating said tail, spring means and cam-and-follower means for moving said latch between operative and inoperative positions upon actuation of said cup, and means for adjusting said latch to vary the latching effect thereof and including a sleeve threaded into said cup and accessible for manual actuation, said sleeve including means for tight frictional engagement with said cup, whereby a selected operative position of said latch may be tightly held.

2,535,982
AZA TRINUCLEAR CYANINE DYES
Henry G. Derbyshire, Johnson City, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 16, 1949, Serial No. 133,474
4 Claims. (Cl. 260—240.1)

1. A process for the production of trinuclear cyanine dyestuffs comprising treating an azathiazolone of the general formula:

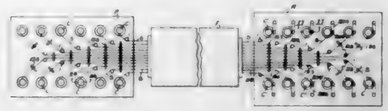


with a cyclammonium quaternary salt of the general formula:



wherein Z and Z′ are selected from the group consisting of residues of heterocyclic nitrogenous compounds of the type usual in the preparation of cyanine dyes, *m* represents an integer of from 1 to 2, R and R_2 are each selected from the group consisting of alkyl, hydroxyalkyl, alkoxyalkyl, aryl and aralkyl groups, R_1 is selected from the group consisting of alkyl, allyl, aryl and aralkyl groups, X represents an acid radical and Y represents an active group selected from the class consisting of alkylmercapto, arylmercapto, β-alkylmercapto, β-arylmercaptovinyl, β-alkylmercapto-β-alkylvinyl, β-alkylmercapto-β-arylvinyl, β-anilinovinyl, β-acetanilidovinyl, β-piperidinovinyl, β-morpholinovinyl, 4-acetanilido-1,3-butadienyl, 4-anilino-1,3-butadienyl, 4-piperidine-1,3-butadienyl, 4-morpholine-1,3-butadienyl, 6-acetanilido-1,3,5-hexatrienyl, 6-anilino-1,3,5-hexatrienyl, 6-piperidine-1,3,5-hexatrienyl, and 6-morpholino-1,3,5-hexatrienyl.

2,535,983
STRIP ANNEALING
John French, Ecorse, Mich., assignor to Revere Copper and Brass Incorporated, New York, N. Y., a corporation of Maryland
Application May 3, 1947, Serial No. 745,873
14 Claims. (Cl. 263—3)

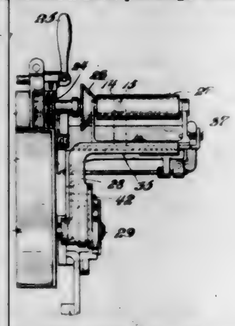


10. Apparatus for heat treating elongated metallic strips comprising an elongated heating chamber, means at the exterior of said chamber for subjecting a plurality not less than three of the strips to longitudinal tension for keeping them straight and passing them in relatively closely spaced opposed relation horizontally on edge through said chamber in the same direction with their top and bottom edges in spaced relation to the top and bottom walls of said chamber and with them in exposed relation to the interior of said chamber, and means for entering a heating medium into the space between one of said walls and the adjacent opposed edges of the strips and flowing it through the spaces between said strips and over the outer faces of the outermost strips to the space between the other of said walls and the opposite edges of the strips and discharging it from the last mentioned space at points distributed longitudinally of the strips for causing said medium to heat the strips while so passing through said chamber.

2,535,984
THREAD WINDING MACHINE
William E. Mahoney, Pawtucket, R. I., assignor to Premier Thread Company, a corporation of Rhode Island
Application January 22, 1948, Serial No. 3,712
6 Claims. (Cl. 242—31)

1. In a machine for winding a package on a core, an arm pivoted on an axis parallel to the axis of the package to rock toward and from the axis of the package, a roll carried by said arm to rotate on an axis parallel to the package and of a substantial axial extent to engage the surface of the package, and be moved away from the axis of the package by the package as the same increases in diameter, a second arm pivoted on an axis parallel to the axis of the package to rock toward and from the axis of the package, a thread

guide for delivering thread to the package carried by said second arm, gears carried by said arms in meshing relation and means to urge at least one of said arms toward said package whereby swing-



ing movement of the first arm will cause a swinging movement of the second arm in response thereto and whereby said thread guide may be caused to follow the surface of the package without contacting the same.

2,535,985
HOIST
Charles J. Manney, Kenmore, N. Y., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y., a corporation of New York
Application April 12, 1947, Serial No. 741,046
2 Claims. (Cl. 74—243)

1. A chain hand wheel for hoists comprising a hub, a two part flange, each of the flange parts being formed with complemental chain link pockets and a complemental annular groove, the flange parts being joined together substantially at the center line of the engaging hand chain, each flange part having contiguous inwardly facing rim portions forming the bottom of the chain groove, one of said rim portions having at least three spaced recesses formed in its contiguous face, the other rim portion having an equal number of lugs for slip-fitted engagement with said recesses, and spaced fastening means for securing said parts together.

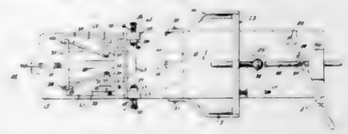
2,535,986
PURIFICATION OF PHOSPHOR COMPONENTS
Elmer C. Payne, Marblehead, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
No Drawing. Application May 15, 1948, Serial No. 27,369
3 Claims. (Cl. 23—107)

1. The method of treatment of di-ammonium phosphate containing heavy-metal impurities which includes the steps of adding tannic acid to a solution thereof to purify the same, filtering the resulting suspension, and employing the so-purified solution in the production of fluorescent halo-phosphates.

2,535,987
AMINOMETHYL COMPOUNDS OF THE POLYCYCLIC DIKETO SERIES AND N-PHTHALOYL DERIVATIVES THEREOF
David I. Randall and Saul R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 16, 1948, Serial No. 60,397
8 Claims. (Cl. 260—326)

1. A polycyclic diketo compound selected from the class consisting of dibenzo-pyrenequinone, anthanthrone, meso-benzo-dianthrone, meso-naphtho-dianthrone, meso-anthro-dianthrone, pyranthrone, isopyranthrone, dibenzo-pyranthrone, violanthrone and isoviolanthrone, said compound containing a member selected from the class consisting of phthalimidomethyl, aminomethyl, and o-carboxybenzoylaminomethyl groups as the only nuclear substituent.

2,535,988
TENSION TESTING APPARATUS FOR ELECTRIC SOCKETS AND WIRE CONNECTIONS
Jack Sakirsky, Bridgeport, Conn., assignor to Jacob B. Lew, Brooklyn, N. Y.
Application October 18, 1949, Serial No. 122,076
3 Claims. (Cl. 73—95)



3. In a testing device of the character described, a base, a holder for an electrical lamp socket structure having two extending lead wires electrically connected to the terminals of the socket respectively; said holder being mounted on the base, two members independently movably mounted on the base, means to shift said movable members, each of said members being adapted for movement towards and away from said holder, separate wire gripping means carried on each of said members, adapted each to receive one of said lead wires respectively and means to operate said gripping means before completion of movement of said members away from the holder, whereby said wires are securely held by said respective gripping means, during movement of said members away from the holder.

2,535,989
PRODUCTION OF ALKALI-METAL NITRATES
Leonard A. Stengel, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
Application August 30, 1946, Serial No. 694,133
12 Claims. (Cl. 23—102)

1. In the manufacture of alkali metal nitrates from alkali metal chlorides, the process which comprises passing a stream of a nitrating gas through a mass of solid granular alkali metal chloride at a temperature above the melting point of the alkali metal nitrate formed in the process but below temperatures causing any substantial decomposition of the alkali metal nitrate and below the melting point of the alkali metal chloride, thereby forming a melt of alkali metal

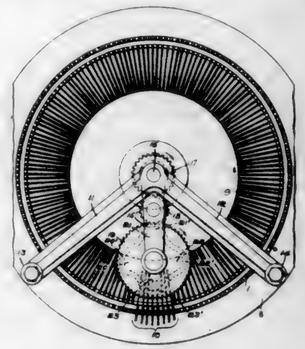
nitrate, and removing said melt from contact with the solid chloride substantially as fast as it is formed.

2,535,990
PRODUCTION OF SODIUM NITRATE
Leonard A. Stengel, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application June 4, 1947, Serial No. 752,567
10 Claims. (Cl. 23—102)

1. In a process for the manufacture of sodium nitrate from solid sodium carbonates, the step which comprises contacting a stream of a nitrating gas with a mass of a solid sodium carbonate at a temperature above the melting point of sodium nitrate, but below the temperature causing any substantial decomposition of sodium nitrate and below the melting point of the sodium carbonate, thereby forming a melt of sodium nitrate, and removing said melt from contact with the solid carbonate substantially as fast as it is formed.

2,535,991
CIRCULAR, INDEPENDENT NEEDLE, KNITTING MACHINE
Brooks Stevens, Jr., Concord, Mass., assignor to Lawrence Manufacturing Company, Lowell, Mass., a corporation of Massachusetts
Application September 23, 1948, Serial No. 50,826
13 Claims. (Cl. 66—19)

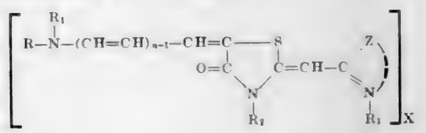
1. A circular, independent needle, knitting machine for knitting a unitary, tubular, plain-knit fabric of indefinite length having at least one relatively narrow, walewise extending area of rib knitting, which relatively narrow area or areas may be thereafter cut lengthwise on a median line thereof to provide at least one plain-knit, flat fabric having rib-bent, walewise extending, relatively narrow, side edge portions rendered non-curling after such cutting by reason of said rib-knit areas which are each largely exceeded in width by the width of the plain-knit portion of said tubular fabric, said knitting machine comprising a needle cylinder having a circle of independent needles, a surrounding cam ring, means relatively to rotate said needle cylinder and cam ring, means to feed yarns to the cylinder needles at a plurality of spaced stations about said needle cylinder, a dial having radial grooves therein, independent dial needles supported only in such dial grooves as to be sufficient in number to knit only said relatively narrow area or areas of rib knitting, and thereby providing a relatively narrow segment of dial needles, cam means to project and retract said relatively narrow segment of dial needles, said cam means being carried by the dial and rotating therewith to project and retract the segment of dial needles, and synchronizing means cooperating with and co-related to said cam means for the dial needles and with the several



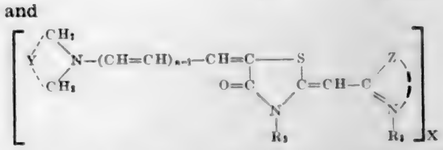
yarn feed stations, thereby to project and to retract the said relatively narrow segment of dial needles at such times that said dial needles take yarn in each course at each of said spaced yarn feed stations, always in and only in knitting the same wales and in accurately timed relation with the projection and retraction of the cylinder needles and thus create accurate marginal vertical lines of rib knitting at the marginal wales of such relatively narrow rib knitted area or areas.

2,535,992
THIAZOLONE CYANINE DYE INTERMEDIATES
Thomas R. Thompson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 21, 1948, Serial No. 66,571
4 Claims. (Cl. 260—240.1)

1. A thiazolone cyanine dyestuff intermediate characterized by a formula selected from the class consisting of the following formulae:



and



wherein R represents an aryl group of the benzene and naphthalene series, R_1 represents a member selected from the class consisting of hydrogen and acetyl, R_2 represents a member selected from the class consisting of alkyl, allyl, aryl, and aralkyl groups, R_3 represents a member

selected from the class consisting of lower alkyl, lower hydroxyalkyl, lower alkoxyalkyl, aryl group of the benzene and naphthalene series, and aralkyl groups, n represents a positive integer of from 1 to 3, X represents an acid radical, Y represents the atoms necessary to complete a saturated heterocyclic nitrogenous nucleus selected from the class consisting of piperidine, β- and γ-pipecoline, pyrrolidine, morpholine, and tetrahydroquinoline, and Z represents the atoms necessary to complete a heterocyclic nitrogenous nucleus of the type used in cyanine dyes.

2,535,993

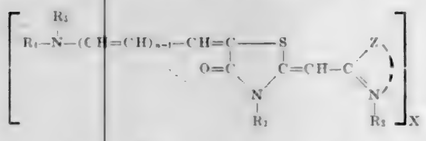
PROCESS OF PREPARING TRINUCLEAR CYANINE DYES

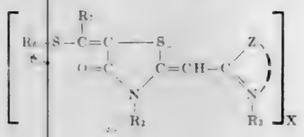
Thomas R. Thompson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 21, 1948, Serial No. 66,573

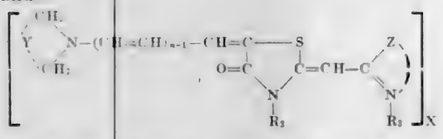
4 Claims. (Cl. 260—240.1)

1. A process for the production of trinuclear cyanine dyestuffs which comprises treating in the presence of a basic condensing agent a cyclammonium quaternary salt containing a reactive methyl group in α-position to the nitrogen atom thereof and of the type used in cyanine dyes with a thiazolone cyanine dye intermediate characterized by a formula selected from the class consisting of the following formulae:





and



wherein R represents a member selected from the class consisting of hydrogen and alkyl groups, R_2 represents a member selected from the class consisting of alkyl, allyl, aryl, and aralkyl groups, R_3 represents a member selected from the class consisting of lower alkyl, lower hydroxyalkyl, lower alkoxyalkyl, aryl of the benzene and naphthalene series and aralkyl groups, R_4 represents an aryl group, R_5 represents a member selected from the class consisting of hydrogen and acetyl group, R_6 represents a member selected from the class consisting of alkyl and aralkyl groups, R_7 represents an alkyl group, n represents a positive integer of from 1 to 3, X represents an acid radical, Y represents the atoms necessary to complete a saturated heterocyclic nitrogenous ring system selected from the class consisting of piperidine, β- and γ-pipecoline, pyrrolidine, morpholine, and tetrahydroquinoline and Z represents the atoms necessary to complete a heterocyclic nitrogenous nucleus of the type used in cyanine dyes.

2,535,994

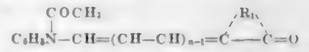
PROCESS OF PREPARING TRINUCLEAR CYANINE DYES CONTAINING A TERMINAL 5- AND 6-MEMBERED HETEROCYCLIC RING SYSTEM

Thomas R. Thompson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

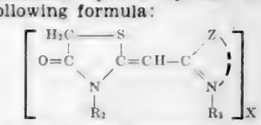
No Drawing. Application December 21, 1948, Serial No. 66,576

4 Claims. (Cl. 260—240.1)

1. A process for the production of trinuclear cyanine dyestuffs comprising heating in the presence of a tertiary basic condensing agent a compound of the formula:



with a thiazolone cyanine dye salt characterized by the following formula:



wherein n represents a positive integer of from 1 to 3, R_1 represents the atoms necessary to complete a member selected from the class consisting of a 5-membered and 6-membered heterocyclic ring system, R_2 represents a member selected from the class consisting of alkyl, allyl, aryl, and aralkyl groups, R_3 represents a member selected from the class consisting of lower alkyl, lower hydroxyalkyl, lower alkoxyalkyl, aryl of the benzene and naphthalene series, and aralkyl groups, X represents an acid radical, and Z represents the atoms necessary to complete a heterocyclic nitrogenous nucleus of the type used in cyanine dyes.

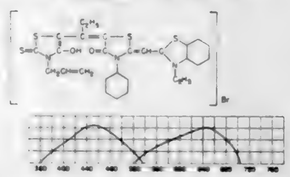
2,535,995

PHOTOGRAPHIC EMULSIONS CONTAINING TRINUCLEAR CYANINE DYES

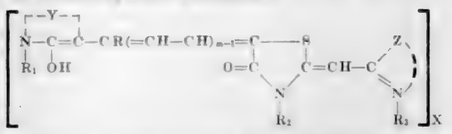
Thomas R. Thompson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application April 30, 1949, Serial No. 90,711

4 Claims. (Cl. 95—7)



1. A photographic gelatino silver-halide emulsion containing a trinuclear cyanine dyestuff of the following general formula:



wherein m represents an integer of from 1 to 3, R represents a member selected from the class consisting of hydrogen and lower alkyl groups, R being lower alkyl only when m represents 1, R_1 and R_2 represent a member selected from the class consisting of lower alkyl, allyl, aryl and aralkyl groups of the benzene and naphthalene series, R_3 represents a member selected from the class consisting of lower alkyl, lower hydroxyalkyl, lower alkoxyalkyl, aryl and aralkyl groups of the benzene and naphthalene series, X represents an acid radical, Y represents the residue of a 5-membered heterocyclic nitrogenous ring system, and Z represents the atoms necessary to complete a heterocyclic nitrogenous system.

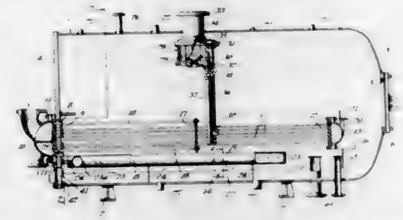
2,535,996

EVAPORATOR

George A. Worn, Greenwich, Conn., and William E. Brockel, Verona, N. J., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application February 27, 1946, Serial No. 650,412

2 Claims. (Cl. 257—199)



1. In a heat exchanger comprising a shell having a vertically extending wall formed with a horizontally opening aperture, a substantially horizontal bundle of heat exchanger tubes extending longitudinally into the shell from said aperture, and channels at opposite ends of said tube bundle to circulate through the tubes of the bundle fluid for indirect heat exchange with a fluid within the shell, one of said channels being exposed outside of the shell and normally closing said aperture; tracks extending inwardly from the aperture to support the bundle for endwise travel therealong, said tracks being flush with an edge of said shell wall forming the lower side of said aperture, an anchorage for hoisting tackle borne by the inner one of said channels, and guiding and supporting projections borne by said inner channel, engaging said tracks and extending longitudinally of the bundle materially beyond said inner channel and beyond said hoisting tackle anchorage, said aperture, bundle, channels, tracks and projections being correlated to enable unobstructed withdrawal of the bundle and said inner channel endwise along the tracks and through the aperture and said projections being of a length beyond the channel to remain in engagement with said wall edge after withdrawal of said channel and tackle anchorage therethrough, to support said channel for connection of hoisting tackle thereto.

2,535,997

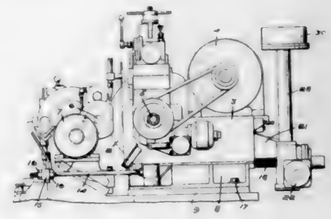
CROSS-FEED MECHANISM FOR GRINDING MACHINES

Harry Arter, Worcester, and Warren F. Fraser, Westboro, Mass., assignors to Arter Grinding Machine Company, Worcester, Mass., a corporation of Massachusetts

Application December 5, 1946, Serial No. 714,168

17 Claims. (Cl. 51—165)

1. A grinding machine including a work holding device, a grinding wheel, a wheel head in which said wheel is mounted for rotation, and means supporting said wheel head and the work holding device for relative approaching and receding movements; mechanism for producing said movements comprising a screw-threaded shaft, a nut threaded on said shaft, said nut and said shaft being so associated with said wheel head and with said supporting means that rotation of the nut moves the wheel head toward and from



the work, a motor, a speed reduction mechanism through which power is transmitted from said motor to said nut to revolve it, and an indicator driven by said speed reduction mechanism and constantly showing measurements of said relative approaching and receding movements.

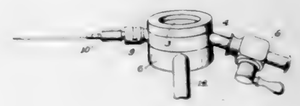
2,535,998

HYPODERMIC PRESSURE MANOMETER

Howard R. Bierman, San Francisco, Calif.

Application November 15, 1949, Serial No. 127,289

5 Claims. (Cl. 73—389)



1. A hypodermic intravascular pressure manometer and pulse beat device comprising, a casing having a chamber adapted normally to contain a pressure transmitting solution, a diaphragm for closing one end of said chamber, strain responsive electrical impedance means mounted on the surface of said diaphragm on the outside of said chamber whereby pressure changes in the chamber effect changes in impedance, a transparent closure member for the other end of said chamber, openings in said chamber one of which is to admit said solution to the chamber to completely fill the same and the other of which is adapted for connection to a hypodermic needle.

2,535,999

METHOD FOR PRODUCING CATHODE COATING COMPOSITIONS

George H. Bouchard, Ipswich, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

No Drawing. Application May 12, 1945, Serial No. 593,535

3 Claims. (Cl. 106—286)

1. The method of controlling the particle size and shape of triple carbonate crystals of the alkaline earth metals precipitated from a nitrate solution by the addition of ammonium carbonate which comprises adding a large amount of ammonia to the nitrate solution just before precipitation to produce the desired particle size.

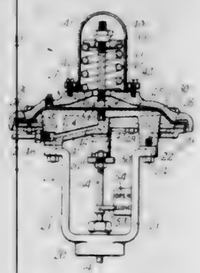
2,536,000

REVERSIBLE AIR-OPERATED MOTOR

Hoel L. Bowditch, Jamaica Plain, Mass., assignor to Foxboro Company, Foxboro, Mass., a corporation of Massachusetts

Application December 26, 1947, Serial No. 793,922
8 Claims. (Cl. 137—156)

1. In a pneumatic motor for reciprocating a valve-operating rod and having two opposing inflexible operating members joined to each other by a flexible closure member forming therewith a closed chamber, said operating members being spring-urged together and being separable along the axis of reciprocation against the spring action by increasing air pressure within the chamber, in combination, at least two fixed supporting members, a first set of supporting brackets fixed to one operating member and spaced equidistant from the axis of the valve-operating rod and mountable on said supporting member, a second set of supporting brackets on the other operating member and spaced equidistant from said valve-operating rod and from said first set of supporting brackets and being mountable on said supporting members, whereby either of said operating members may be rigidly mounted on said supporting members leaving the other operating member free to move, an air supply con-



nection through at least one of said operating members into said closed chamber through which air may be supplied to or withdrawn from said chamber to operate said motor, an adaptor connectible to either of said operating members and to said valve-operating rod, whereby said valve-operating rod may be secured to and moved by the operating member not mounted on said supporting members so that when the operating member nearest said valve-operating rod is mounted on said supporting members, increasing air pressure in said closed chamber moves the other operating member and pulls the valve-operating rod toward the fixed operating member, and when the operating member farthest from the valve-operating rod is mounted on said supporting members, increasing air pressure in said closed chamber moves the other operating member and pushes the valve-operating rod away from the fixed operating member.

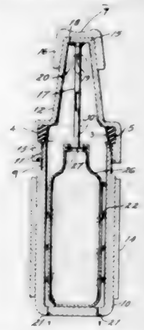
2,536,001

COOLING INSTRUMENT

William Chase, Chevy Chase, Md.

Application June 3, 1949, Serial No. 96,865
5 Claims. (Cl. 62—91.5)

1. An instrument for cooling localized areas comprising a holder for receiving a refrigerant-containing cartridge, a closure for said holder, puncturing means in said closure for puncturing said cartridge to release the refrigerant therein, said holder being provided with apertures to permit escape of released refrigerant, and a closed imperforate head portion having a heat-exchange



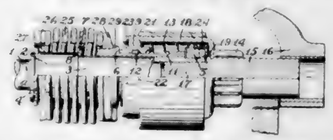
contacting portion integral with said closure adapted to be cooled by the released refrigerant.

2,536,002

STARTER GEARING FOR INTERNAL-COMBUSTION ENGINES

Richard F. Dunbar, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware

Application June 13, 1949, Serial No. 98,698
3 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a fixed bearing in alignment with the power shaft, a pinion having a smooth extended hub portion slidably journalled in said bearing for longitudinal movement into and of mesh with a gear of an engine to be started, and means for actuating the pinion from the power shaft including a sleeve fixed to the power shaft, a screw shaft slidably journalled on the sleeve, an abutment for the screw shaft on the end of the sleeve adjacent the pinion, a yielding driving connection from the sleeve to the screw shaft, urging the screw shaft against said abutment, a control nut threaded on the screw shaft for longitudinal movement into engagement with said abutment, and a barrel member surrounding the screw shaft, control nut and abutment, rigidly connected at its ends to the control nut and pinion respectively, said pinion having a second smooth extended hub portion of substantially smaller diameter than the first-mentioned hub portion, and having a sliding bearing fit in the end of the sleeve.

2,536,003

COAXIAL CABLE CONNECTION

Henry Peter Dupre, Astoria, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Application July 8, 1946, Serial No. 681,864
3 Claims. (Cl. 174—88)

1. A connection for transmitting current, comprising a coaxial cable having inner and outer conductors spaced apart by a layer of insulating material, the outer conductor made of hollow readily expansible stranded and braided metal

separated at one end thereof from the layer of insulating material, an inner conductor sleeve having a tubular end made of metal attached to the end of the inner conductor, to permit transmitting current therefrom, said inner conductor sleeve having means at the remaining end for electrical attachment to another conductor, a rigid inner tubular ferrule made of non-col-

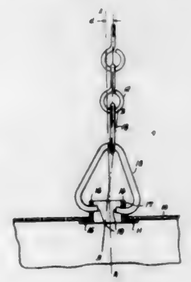
lapsible metal positioned within the separated portion of the outer conductor and encircling the inner conductor, an outer ferrule made of crimpable metal encircling the outer conductor and positioned directly above the inner tubular ferrule, said outer ferrule being crimped to the inner tubular ferrule with the outer conductor being positioned therebetween, and extending means for electrically connecting the outer ferrule to another conductor.

2,536,004

HANGER

Raymond Charles Kember, London, England, assignor to Thorn Electrical Industries Limited, London, England, a company of Great Britain

Application February 26, 1948, Serial No. 11,027
In Great Britain November 25, 1946
8 Claims. (Cl. 248—317)



8. A device attaching to a suspender a holder and reflector assembly for a tubular electric lamp, the device including a member mounted for rotation about a vertical axis in the top of said assembly, and a fastening member on said rotatable member and having an articulated connection with said suspender at a point which is eccentric with respect to said axis.

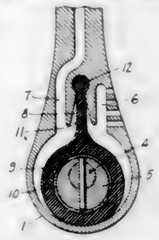
2,536,005

PUMP

Carl Knuth, Milwaukee, Wis., assignor to Kiekhaefer Corporation, Cedarburg, Wis., a corporation of Wisconsin

Application December 10, 1945, Serial No. 633,964
3 Claims. (Cl. 103—131)

1. A pump of the class described comprising a cylindrical casing, a non-rotary impeller adapted to oscillate circumferentially inside the casing in contact with the outer wall thereof, a single elastic tongue interconnecting and tensioned between the impeller and outer casing wall to divide the interior of the casing between the inlet and outlet ports thereof and hold the impeller against rotation, and interlocking means between the outer edge of said tongue and the casing se-



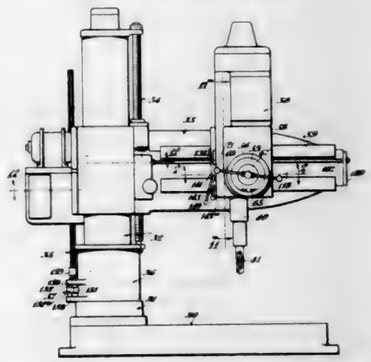
curing said tongue edge in fixed and sealed relation to the casing.

2,536,006

INTERLOCKED CONTROL FOR THE CLAMPS AND SPINDLE OF A RADIAL DRILL OR THE LIKE

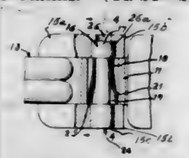
Carl E. Linden, Cincinnati, and Frank O. Wetzel, Norwood, Ohio, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application July 23, 1948, Serial No. 40,297
4 Claims. (Cl. 77—28)



1. In a radial drill having an arm, a drill head, a spindle, a clutch for translating the spindle by power and a manually operated clutch lever for engaging and disengaging the clutch, a hydraulic system for automatically clamping the drill head to the arm when the drill spindle is clutched for power translation comprising, a hydraulic fluid reservoir disposed within the drill head, a power driven hydraulic pump mounted in the drill head, a hydraulic cylinder and piston assembly mounted within the drill head, a clamping device adapted to clamp the drill head to the arm, mechanical connecting means extending between the hydraulic piston and said clamping device, a hydraulic conduit extending from the said hydraulic pump to the said hydraulic cylinder and piston assembly, a control valve interposed in the said hydraulic conduit to regulate the operation of the said piston, a valve control lever extending from the said manually operated clutch to the hydraulic control valve, the valve control lever being arranged to actuate the valve to admit fluid pressure to the hydraulic cylinder and piston assembly upon manual actuation of the clutch lever to cause clamping of the drill head to the arm automatically when the spindle is translated by power.

2,536,007
SPRING PLUG FOR WATCH BAND ATTACHMENTS
Bertram Milner, Cincinnati, Ohio, assignor to Litwin & Sons, Inc., Cincinnati, Ohio, a corporation of Ohio
Application August 12, 1947, Serial No. 768,234
5 Claims. (Cl. 24—265)

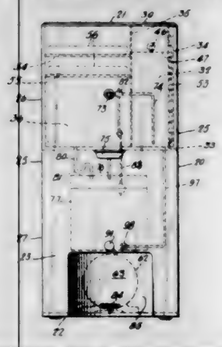


1. Means for attaching the clevis of a watch end ornament and a watch lug having bores formed therein, the bore in the lug having a greater diameter than that in the clevis of the watch end ornament, said means including a pin having a diameter at its ends substantially the same as the diameter of the bore in the clevis and a reduced diameter along its central section, said section being substantially as long as the width of the lug, a sleeve adapted to fit around said pin along its central section and tangs bent outwardly from said sleeve, whereby, as the pin is inserted through the ornament bore, and into the lug the tangs will spring outwardly and engage the shoulder formed between the inner surface of the ornament and the side of the bore in the lug.

2,536,008
PEROXY-SUBSTITUTED PERSULFONATES
Frederick F. Rust, Oakland, and Alan R. Stiles and William E. Vaughan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 21, 1949, Serial No. 77,693
7 Claims. (Cl. 260—456)

1. Tertiary - butyl 2-tertiary - butylperoxy - 2-methylpropanepersulfonate.

2,536,009
REFRIGERATOR AND WATER COOLER
Orville C. Morrison and Samuel O. Morrison, Media, John G. Wehrwein, Havertown, and Earl A. Gott, Lansdowne, Pa., assignors to Sunroe Refrigeration Company, Dover, Del., a corporation of Delaware
Application February 7, 1948, Serial No. 6,924
4 Claims. (Cl. 62—141)

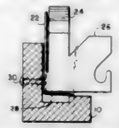


1. In a refrigerator and water cooler, a cabinet, a mechanical refrigeration unit including a compressor, a condenser and cooling units in the cabinet, a water cooling compartment at one lateral portion of the top of the cabinet in heat transfer relation with one of the cooling units, a refrigeration compartment at another lateral portion of the top of the cabinet in heat transfer relation with another cooling unit, a water dispenser connected to the water cooling compartment, an interior waste water storage compartment in the cabinet below the water cooling and refrigeration compartments, a sump below the dispenser and above the waste water storage compartment and connected thereto for pouring waste water from the dispenser into the waste water storage compartment, a drainage connection from the refrigeration compartment to the waste water storage compartment, a discharge for the waste water storage compartment, and a selectively open drainage connection from the bottom of the water cooling compartment to the discharge.

2,536,010
PREPARATION OF AZINE DYESTUFF IMAGES
Willy A. Schmidt and Joseph A. Sprung, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 11, 1947, Serial No. 760,508
8 Claims. (Cl. 95—6)

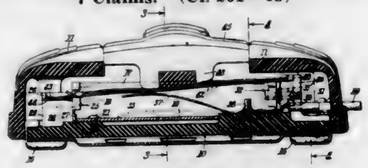
1. The process of producing azine dyestuff images in a photographic silver halide emulsion which comprises exposing the emulsion and developing the same with a primary aromatic amino developer in the presence of an aromatic phenol capable of coupling in the 4-position and containing a sulfonamido group, the nitrogen atom of which is directly linked to the carbon atom in meta-position to the phenolic hydroxyl group.

2,536,011
MINIATURE ACORN-TUBE SOCKET WITH FLOATING CONTACTS
Emerick Toth, Takoma Park, Md.
Application March 27, 1947, Serial No. 737,685
6 Claims. (Cl. 173—328)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



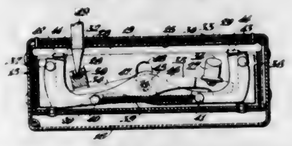
6. A socket for a radio tube or the like, said socket being of annular shape and being formed with a plurality of recesses, a contact clip housed in each of said recesses and being retained in said socket by the coaction therewith of the portions of the socket bounding the recess in which it is positioned, said clip having a base, contact pin receiving means forming a portion of each of said clips and being adapted to receive pins extending radially from a tube positioned within said socket; said contact pin receiving means comprising an element extending from said base in substantial parallelism with the axis of said socket and terminating at its free end in a notch having its apex directed toward said base, a pair of tabs extending from said base with their major surfaces lying in parallel planes normal to the plane of said notch, said tabs being resiliently urged toward each other at their free ends to form a yieldable barrier to the movement of one of said radially extending pins into or out of said notch, and a resilient member joined to said base beneath said element and extending below and toward the opposite side of said base, said member acting between said clip and said socket to urge the notched end of said element radially inwardly of said socket to the limit of movement of said clip.

2,536,012
CARBON PILE RHEOSTAT
Edgar P. Turner, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 1, 1949, Serial No. 84,844
7 Claims. (Cl. 201—48)



1. A controller for electric motors comprising a base, a carbon pile resistor carried by said base, a U-shaped spring having its limbs arranged parallel to said carbon pile, means for anchoring the free ends of said limbs, and manually controlled mechanism for engaging and simultaneously flexing each of said limbs intermediate their ends for the purpose of varying the pressure applied to the carbon pile resistor.

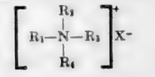
2,536,013
ARRESTING MEANS FOR AUTOGRAPHIC REGISTERS
Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and Eleanor C. Diesbach, Hamilton, Ohio, as trustees
Application March 11, 1949, Serial No. 80,890
1 Claim. (Cl. 282—12)



In combination with an autographic register of the type in which a strip of connected sets of superimposed forms, each form having a pair of filing holes therein, is moved across a writing platen and each set of forms brought into successive registry with the platen, means for arresting the movement of the strip and for aligning the superimposed forms of each set when it is brought into registry with the platen comprising; a pair of pins, means interlinking said pins for simultaneous movement in a plane normal to the writing platen toward and away from set aligning positions in which the body portions of both pins are in snug engagement with the respective holes of a set of forms, spring means urging said pins toward set aligning positions, one of said pins configurated to receive an instrument for moving said pins away from set aligning positions and for initially advancing the strip, and the other of said pins having an arresting head extending beyond the body portion thereof so that the latter pin is adapted to ride on the surface of the strip when the strip is being moved across the platen holding the other pin in spaced relationship to the surface of the strip through said interlinkage means, said arresting head being smaller than the body portion of either pin and terminating in a blunt point, the end of which is adjacent the side of the pin facing oncoming forms and which is adapted to engage filing holes for arresting the strip in position of registry with the platen before the body portion of either pin engages the strip.

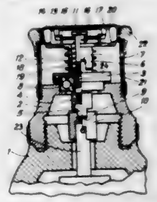
2,536,014
SPINNING OF VISCOSE
Norman Louis Cox, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 14, 1946, Serial No. 716,415
23 Claims. (Cl. 28—82)

1. A method of producing regenerated cellulosic structures which comprises the step of spinning a viscose solution in a spinning bath comprising an aqueous solution of sulfuric acid containing from 1% to 15% zinc sulfate, the said spinning being conducted in the presence of about 0.5 to about 10.0 millimoles per 100 grams of one of said solutions of a water-soluble quaternary ammonium compound of the formula



wherein R_1, R_2, R_3, and R_4 are organic groups which contain no more than four aliphatic carbon atoms, at least three of the said groups contain only aliphatic carbon atoms and the fourth of the said groups contains no more than one phenyl radical and where X^- is an anion having substantially no surface activity.

2,536,015
RAZOR AND COMB
Hermann Konrad, Moutier, Switzerland, assignor to Hermann Konrad, Soc. An., Moutier, Canton of Bern, Switzerland, a joint-stock company of Switzerland
Original application January 20, 1945, Serial No. 573,703. Divided and this application October 15, 1946, Serial No. 703,330. In Switzerland March 8, 1944
11 Claims. (Cl. 30—43)

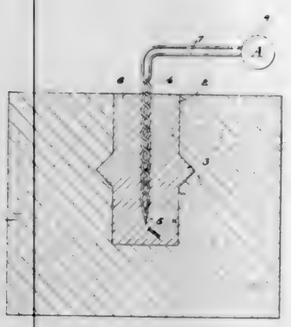


1. In a razor, a body comprising a head portion having a comb plate forming the outer end face of said head portion, said comb plate comprising a plurality of slit annular raceways coaxial to and surrounding one another, a drive means mounted on said body, a cutter for each raceway coupled with said drive means to be rotated around an axis coinciding with the common axis of said annular raceways, said cutters being mounted so as to be axially yieldable independent of one another, each cutter having blades engaging one of said raceways, and springs each supported on said drive means and on one of said cutters to yieldably press the blades of said cutters into said annular raceways.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

693,332. **THERMOCOUPLE ANCHOR.** Henry W. Newson, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Filed Aug. 27, 1946. Published Dec. 26, 1950. Class 73—359. 1 sheet of drawings. 4 pages of specification.



In order to measure the internal temperature of a neutronic reactor of the type which is built up of a plurality of graphite blocks **1**, a hole **2** is drilled in one of the graphite blocks. A thermocouple **4** is then held in the hole with its thermocouple junction **5** at the inner end of the hole, and the hole is filled with molten bismuth. The bismuth is then allowed to cool and harden, thus simultaneously providing a good mechanical and thermal bond between the block and the thermocouple. An annular indentation **3** is provided on the surface of the hole in order to provide a stronger mechanical bond.

791,466. **REFRACTORIES.** Leo Brewer, Berkeley, Le Roy A. Bromley, El Cerrito, Calif., and Ermon D. Eastman, deceased, late of Berkeley, Calif., by Ann G. Eastman, executrix, Berkeley, Calif.; said Brewer and said Bromley assignors to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 12, 1947. Published Dec. 26, 1950. Class 266—43. No drawing. 15 pages of specification.

Crucibles made of or lined with a sulfide or oxysulfide of cerium, thorium, or uranium are highly refractory and stable and are proposed for use in melting metals of high atomic weight.

The metal of the sulfide may be present in any valence state. Higher sulfides and oxysulfides can be made by treating the oxide of the metal with H_2S in a carbon system, and these can be converted to intermediate sulfides by heating in vacuum. Ce_2S_3, ThS_2, US_2, Ce_3S_4, Th_4S_7, U_2S_3, and oxysulfides can be prepared in this way. The higher sulfides can also be made by reaction of the anhydrous metal halide with sulfur or hydrogen sulfide.

All sulfides may be prepared by reacting stoichiometric amounts of hydrogen sulfide and metal hydride at high temperature and subatmospheric pressure. Intermediate and lower sulfides, such as Ce_3S_4, CeS, Th_4S_7, Th_2S_3, ThS, U_2S_3, US, $ThCeS_2$ and other mixed sulfides, may be prepared by reacting the higher sulfides with metal hydride, and intermediate sulfides also by reacting higher with lowest sulfides.

In the production of the crucibles the sulfide made by one of the methods described above is ground and a binder material admixed thereto before or after grinding. Protection of the sulfide during grinding against oxidation by an organic solvent, e. g., ether or propane, is advantageous. For instance, a mixture of cetyl alcohol and/or naphthalene (as binder) and ether (as solvent) was used during grinding to cover the sulfide. After grinding, the solvent is volatilized, and the residual mixture is pressed into a mold. Binder in a quantity of about 5% by volume and a pressure of 50,000 p. s. i. gave satisfactory results. Lubrication of the die metal surfaces with an ether solution of organic acid, such as caprylic, lauric or stearic acids, is advisable. The pressed body is removed from the die. After a preheating step in vacuum for volatilization of the binder, the body is sintered in vacuum and finally cooled, preferably in an inert atmosphere.

The optimal sintering temperatures were found to be for CeS 1600° to 1900° C., preferably 1800° C.; for Ce_3S_4 and Ce_2S_3 from 1700° to 1900° C.; for ThS from 1850° to 2000° C., preferably from 1850° to 1950° C.; for Th_2S_3 from 1725° to 1800° C.; for Th_4S_7 from 1700° to 2200° C.; for US_2 from 1600° to 1900° C.; and for U_2S_3 from 1500° to 1700° C.

791,467. **REFRACTORIES.** Leo Brewer, Berkeley, Norman L. Lofgren, Albany, Calif., and Ermon D. Eastman, deceased, late of Berkeley, Calif., by Ann G. Eastman, executrix, Berkeley, Calif. Filed Dec. 12, 1947. Published Dec. 26, 1950. Class 23—14.5. No drawing. 10 pages of specification.

Refractories, which are nonvolatile in vacuum and inert when used as containers for the fusion of metals of a high melting point and great reactivity, are thorium sulfides having an S:Th atomic ratio of about 1.75–1.9. The sulfide having the formula Th_4S_7, for instance, is useful for the purpose described.

791,468. **REFRACTORIES.** Leo Brewer, Berkeley, Norman L. Lofgren, Albany, Calif., and Ermon D. Eastman, deceased, late of Berkeley, Calif., by Ann G. Eastman, executrix, Berkeley, Calif.; said Brewer and said Bromley assignors to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 12, 1947. Published Dec. 26, 1950. Class 23—14.5. No drawing. 11 pages of specification.

One method of preparing thorium sulfides, such as ThS, Th_2S_3, Th_4S_7 and ThS_2, comprises heating stoichiometric amounts of ThS_2 and thorium hydride to 500° to 600° C. at subatmospheric pressure whereby the hydride is decomposed to metallic thorium and hydrogen and, upon removal of the hydrogen released, heating the mixture of the thorium sulfide and thorium metal for about thirty minutes to from 1400° to 1800° C. whereby the sulfide desired is obtained. A sintering step at a higher temperature may then be added.

Mixed thorium sulfides, such as $CeThS_2$, $UThS_2$ and Ce_2ThS_3, may also be prepared by this method by reacting ThS_2 and CeH_3 or UH_3.

Another embodiment of the invention comprises the reaction of ThH_3 with a volatile sulfide, e. g., hydrogen sulfide. The hydride is contacted with stoichiometric amounts of sulfide at subatmospheric pressure and a temperature of from 400° to 500° C. whereby a part of the hydride corresponding to the quantity of sulfide used is converted to ThS_2 or lower sulfides. The mixture is then heated to a temperature between 500° and 600° C. whereby the remaining ThH_3 is decomposed to metallic thorium. Thereafter, the temperature is raised to 1400° to 2100° C. whereby the thorium sulfide and the metallic thorium react to form a sulfide of the desired ratio.

791,469. **REFRACTORIES.** Leo Brewer, Berkeley, Norman L. Lofgren, Albany, Calif., and Ermon D. Eastman, deceased, late of Berkeley, Calif., by Ann G. Eastman, executrix, Berkeley, Calif.; said Brewer and said Bromley assignors to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 12, 1947. Published Dec. 26, 1950. Class 23—14.5. No drawing. 4 pages of specification.

One method of preparing refractory thorium sulfides, such as Th_4S_7, Th_2S_3 and ThS, comprises the tensimetrical decomposition of ThS_2 by heating it to temperatures of from 1600° to 2100° C. at a subatmospheric pressure of not higher than 1 micron Hg and preferably of from 10^{-3} to 10^{-5} mm. Hg for about three hours. For instance, molten thorium sulfide, when held for three hours at a temperature between 1900° and 2000° C. and a pressure of 10^{-5} mm. Hg, yielded a sulfide of a S:Th ratio of 1.75; this sulfide did not melt at 2000° C.

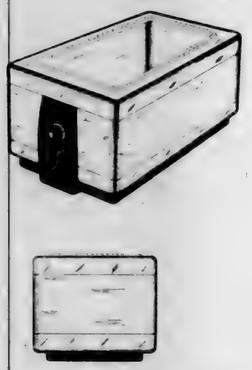
Another method of preparing refractory thorium sulfides comprises heating at subatmospheric pressure stoichiometric amounts of thorium disulfide and metallic thorium to a temperature between 1850° and 1900° C. for thirty minutes, grinding the mixture and once more heating it to the same temperature for thirty minutes at subatmospheric pressure.

Still another method of preparing thorium sulfides comprises heating thorium disulfide and carbon in stoichiometric quantities with regard to the product desired to above 1750° C. at subatmospheric pressure.

DESIGNS

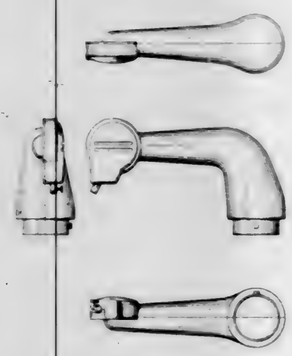
DECEMBER 26, 1950

161,299
CASING FOR FOOD SERVING EQUIPMENT
Arthur D. Altemiller, Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio, a corporation of Delaware
Application January 7, 1950, Serial No. 7,083
Term of patent 14 years
(Cl. D81—10)



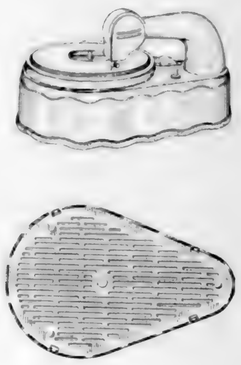
The ornamental design for a casing for food serving equipment substantially as shown and described.

161,300
PHONOGRAPH TONE-ARM
Nicholas T. Baldanza, Rutherford, N. J., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of New Jersey
Application June 24, 1950, Serial No. 10,745
Term of patent 7 years
(Cl. D26—14)



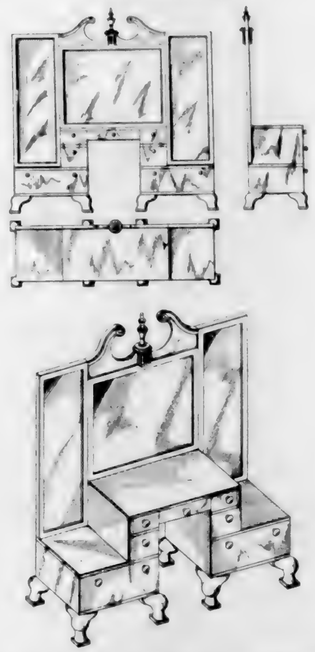
The ornamental design for a phonograph tone-arm, as shown.

161,301
PHONOGRAPH
Nicholas T. Baldanza, Rutherford, N. J., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of New Jersey
Application June 24, 1950, Serial No. 10,746
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a phonograph, as shown.

161,302
COMBINATION DRESSING TABLE AND CHEST OF DRAWERS
Birdie L. Baldwin, Atlanta, Ga.
Application September 13, 1949, Serial No. 4,981
Term of patent 3½ years
(Cl. D33—6)



The ornamental design for a combination dressing table and chest of drawers, as shown.

161,303
EXPANSIBLE BRACELET OR THE LIKE
Joseph M. Bender, Manhasset, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application March 2, 1949, Serial No. 1,174
Term of patent 7 years
(Cl. D45—4)

The ornamental design for an expansible bracelet or the like, as shown and described.

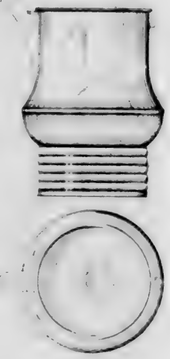
161,304
STOCKING
Emil J. Berger, Lansdale, Pa., assignor to Dexdale Hosiery Mills, Lansdale, Pa., a corporation of Pennsylvania
Application May 10, 1950, Serial No. 9,848
Term of patent 14 years
(Cl. D47—7)

The ornamental design for a stocking, as shown.

161,305
INFLATABLE TOY FIGURE
Morton M. Bernstein, Manhasset, N. Y., assignor to Plastikaire Products Inc., Queens Village, N. Y., a corporation of New York
Application August 14, 1950, Serial No. 11,758
Term of patent 7 years
(Cl. D34—15)

The ornamental design for an inflatable toy figure, as shown.

161,306
COFFEE MAKER
William P. Biehayn, Richmond Hill, N. Y., assignor to S. W. Farber, Inc., New York, N. Y., a corporation of New York
Application March 1, 1950, Serial No. 8,227
Term of patent 14 years
(Cl. D44—26)

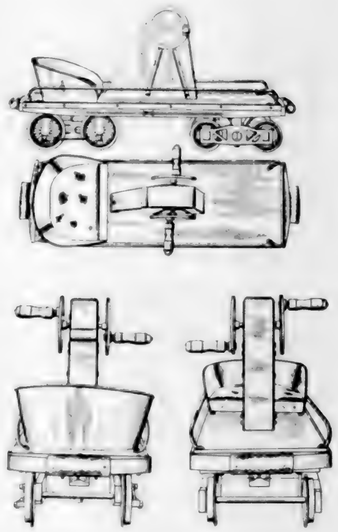


The ornamental design for a coffee maker, as shown.

161,307
ACCOUNTANT'S RULER
John Bischof, Racine, Wis., assignor to Bischof Die & Engraving Co., Racine, Wis., a partnership
Application March 30, 1950, Serial No. 8,871
Term of patent 7 years
(Cl. D52—1)

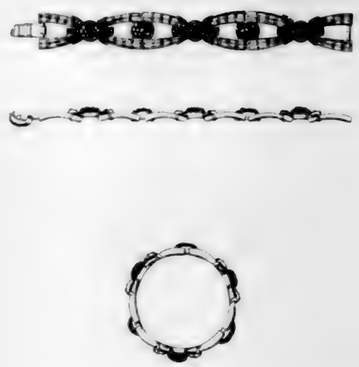
The ornamental design for an accountant's ruler, as shown.

161,308
AMUSEMENT CAR
Lebert E. Blue, Montezuma, and Verlin F. Hodges, Indianapolis, Ind.
Application February 14, 1949, Serial No. 838
Term of patent 14 years
(Cl. D34—15)



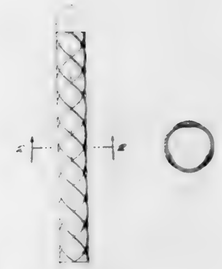
The ornamental design for an amusement car, as shown.

161,309
BRACELET OR SIMILAR ARTICLE
Marcel Boucher, Eltingville, N. Y.
Application September 20, 1950, Serial No. 12,271
Term of patent 3½ years
(Cl. D45—4)



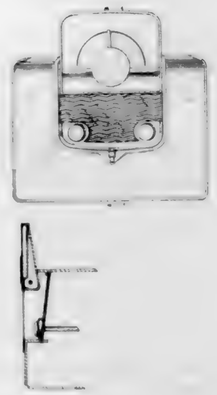
The ornamental design for a bracelet or similar article, as shown.

161,310
PENCIL OR SIMILAR ARTICLE
Meyer M. Brown, New York, N. Y.
Application April 19, 1950, Serial No. 9,337
Term of patent 7 years
(Cl. D74—24)

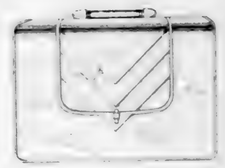


The ornamental design for a pencil or similar article, as shown and described.

161,311
RADIO CABINET
Robert D. Budlong, Skokie, Ill., assignor to Wincharger Corporation, a corporation of Minnesota
Application December 23, 1949, Serial No. 6,797
Term of patent 7 years
(Cl. D56—4)

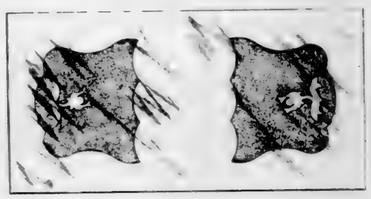


161,311—Continued



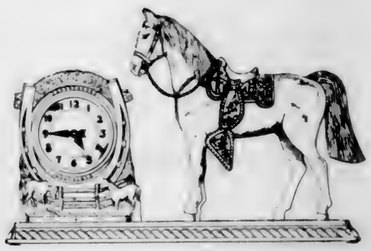
The ornamental design for a radio cabinet, as shown and described.

161,312
TABLE TOP OR SIMILAR ARTICLE
Ben Bunin, River Edge, N. J., assignor to Product Design & Mfg. Corp., North Hackensack, N. J.
Application June 19, 1950, Serial No. 10,615
Term of patent 7 years
(Cl. D33—14)



The ornamental design for a table top or similar article, substantially as shown.

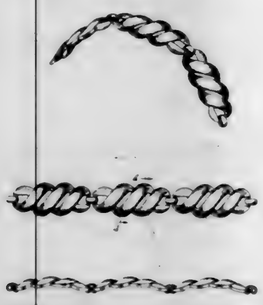
161,313
CLOCK
Avery B. Chereton, Detroit, Mich., assignor to Portal Products Corporation, Chicago, Ill., a corporation of Illinois
Application July 31, 1950, Serial No. 11,496
Term of patent 7 years
(Cl. D42—7)



161,313—Continued

The ornamental design for a clock, as shown.

161,314
LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application March 10, 1950, Serial No. 8,447
Term of patent 14 years
(Cl. D45—16)

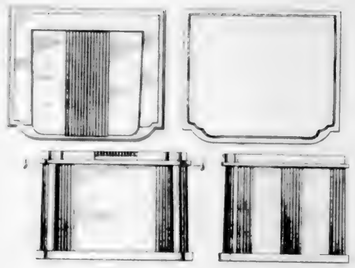


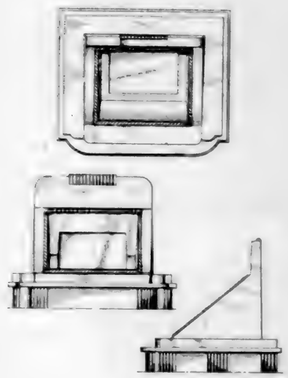
The ornamental design for a link chain for a bracelet or similar article, substantially as shown.

161,315
JEWELRY LINK
Michael Chernow, New York, N. Y.
Application August 2, 1950, Serial No. 11,550
Term of patent 14 years
(Cl. D45—4)

The ornamental design for a jewelry link, substantially as shown.

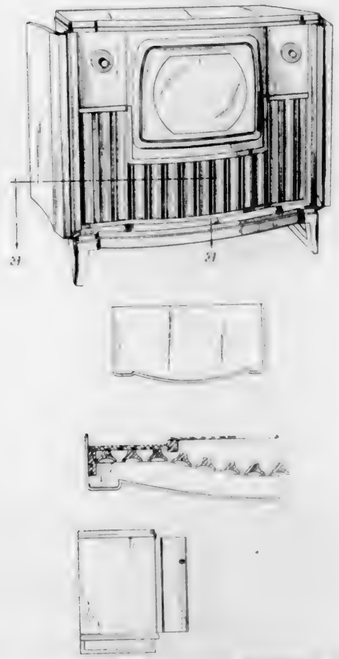
161,316
RING BOX OR SIMILAR ARTICLE
Richmond L. Chipman, Jr., Montclair, N. J.
Application April 20, 1949, Serial No. 2,160
Term of patent 7 years
(Cl. D80—5)





The ornamental design for a ring box or similar article, as shown.

161,317
TELEVISION RECEIVER CABINET
William H. Clingman, Grand Rapids, Mich., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 2, 1950, Serial No. 11,551
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a television receiver cabinet, as shown.

161,318
COIN SAVINGS BANK
Harry L. Cooper, St. Louis, Mo.
Application August 1, 1949, Serial No. 4,238
Term of patent 7 years
(Cl. D34—11)

The ornamental design for a coin savings bank, as shown.

161,319
FIGURINE
Paul Newton Cope and Theodosia Lee Cope, Santa Ana, Calif.
Application July 2, 1949, Serial No. 3,684
Term of patent 3½ years
(Cl. D29—23)

The ornamental design for a figurine as shown.

161,320
COLOR TEMPERATURE METER
Frank F. Crandell, Pasadena, Calif., assignor to Photo Research Corporation, San Fernando, Calif., a corporation of California
Application January 29, 1949, Serial No. 577
Term of patent 14 years
(Cl. D61—1)

The ornamental design for a color temperature meter, substantially as shown.

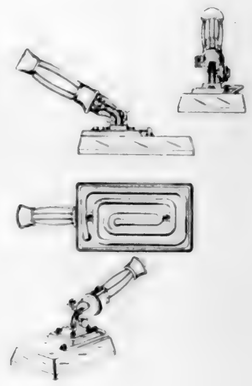
161,321
COMBINATION BOTTLE OPENER, SCREW DRIVER, AND LID OPENER
Le Emmette V. de Fee, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application April 29, 1950, Serial No. 9,592
Term of patent 14 years
(Cl. D44—29)

The ornamental design for a combination bottle opener, screw driver, and lid opener, as shown and described.

161,322
SPORT SHIRT
Seymour F. Dennis, New York, N. Y.
Application October 23, 1950, Serial No. 12,687
Term of patent 14 years
(Cl. D3—25)

The ornamental design for a sport shirt, as shown and described.

161,323
UTILITY BURNER FOR PAINT OR THE LIKE
Alfred E. D'Harlingue, St. Louis, Mo.
Application October 3, 1949, Serial No. 5,276
Term of patent 14 years
(Cl. D93—4)



The ornamental design for a utility burner for paint or the like, as shown.

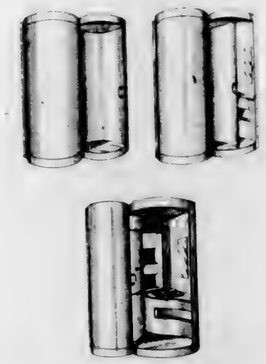
161,324
FINGER RING
Roselyn K. Duncan, Atlanta, Ga.
Application October 25, 1950, Serial No. 12,720
Term of patent 14 years
(Cl. D45—10)

The ornamental design for a finger ring, substantially as shown and described.

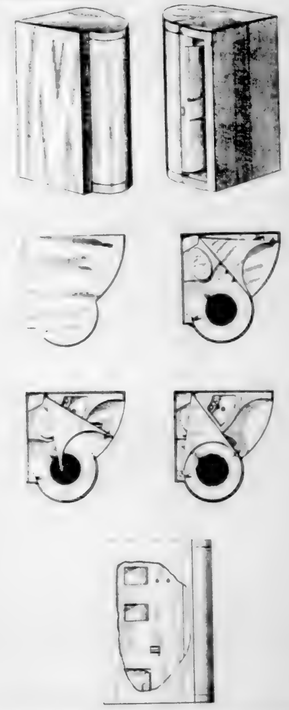
161,325
LAMP
Harry Eisenberg, Atlantic City, N. J.
Application March 30, 1950, Serial No. 8,882
Term of patent 7 years
(Cl. D48—20)

The ornamental design for a lamp, as shown and described.

161,326
COMBINATION BATHROOM UNIT
Randolph Evans, Bronxville, N. Y.
Application July 3, 1950, Serial No. 10,955
Term of patent 14 years
(Cl. D4—4)

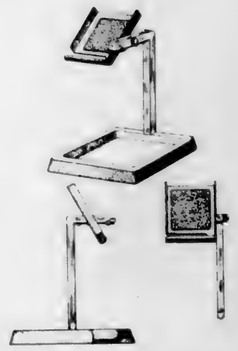


161,326—Continued



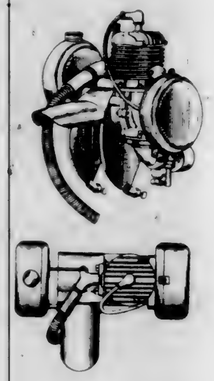
The ornamental design for a combination bathroom unit, as shown and described.

161,327
COMBINATION WATCH STAND AND JEWELRY HOLDER
Walter Freudenberg, Charleston, S. C.
Application April 11, 1950, Serial No. 9,122
Term of patent 3½ years
(Cl. D80—9)



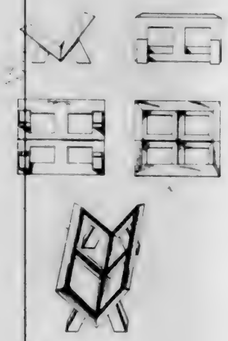
The ornamental design for a combination watch stand and jewelry holder, substantially as shown.

161,328
BICYCLE ENGINE
Fred M. Friedlob, Chicago, Ill.
Application July 23, 1949, Serial No. 4,098
Term of patent 14 years
(Cl. D90—8)



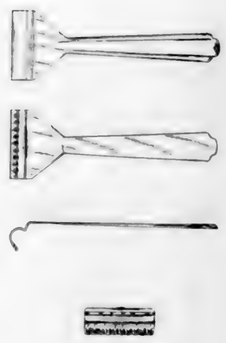
The ornamental design for a bicycle engine, substantially as shown.

161,329
SOAP DISH
William R. Galter, Chicago, Ill.
Application October 21, 1949, Serial No. 5,633
Term of patent 7 years
(Cl. D4—3)



The ornamental design for a soap dish, substantially as shown.

161,330
BUTTER CURLER
William R. Galter, Chicago, Ill.
Application January 3, 1950, Serial No. 6,979
Term of patent 3½ years
(Cl. D44—29)



The ornamental design for a butter curler, substantially as shown.

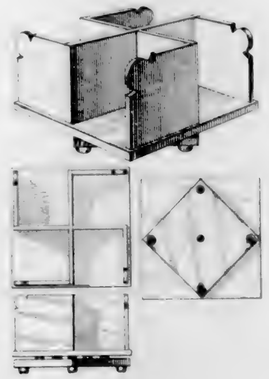
161,331
HEEL AND SOLEPLATE FOR SHOES
Stevens Gerdodian, Fresno, Calif.
Application October 24, 1949, Serial No. 5,680
Term of patent 14 years
(Cl. D7—5)

The ornamental design for a heel and sole plate for shoes, as shown.

161,332
STOCKING
Herbert N. Goodman, New York, N. Y., assignor to Triumph Hosiery Mills, Inc., New York, N. Y., a corporation of New York
Application March 10, 1950, Serial No. 8,450
Term of patent 14 years
(Cl. D47—7)

The ornamental design for a stocking, substantially as shown.

161,333
BOOK HOLDER
James B. Gooken, Corona Del Mar, Calif.
Application July 11, 1950, Serial No. 11,067
Term of patent 14 years
(Cl. D33—2)



The ornamental design for a book holder, as shown.

161,334
OVERSHOE
Rena Bell Hardman, Los Angeles, Calif.
Application August 10, 1950, Serial No. 11,705
Term of patent 14 years
(Cl. D7—4)

The ornamental design for an overshoe, substantially as shown and described.

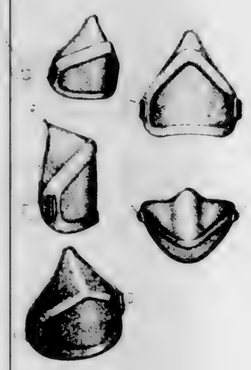
161,335
STREET LIGHTING LUMINAIRE
Donald William Harling, Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware
Application April 29, 1950, Serial No. 9,578
Term of patent 14 years
(Cl. D48—31)

The ornamental design for a street lighting luminaire, as shown and described.

161,336
DRAWING PEN
Harlan N. Harris, Los Angeles, Calif.
Application March 2, 1948, Serial No. 144,877
Term of patent 14 years
(Cl. D74—17)

The ornamental design for a drawing pen, substantially as shown and described.

161,337
RESPIRATOR OR SIMILAR ARTICLE
John D. Hill, Cleveland, Ohio
Application July 1, 1949, Serial No. 3,659
Term of patent 14 years
(Cl. D83—1)

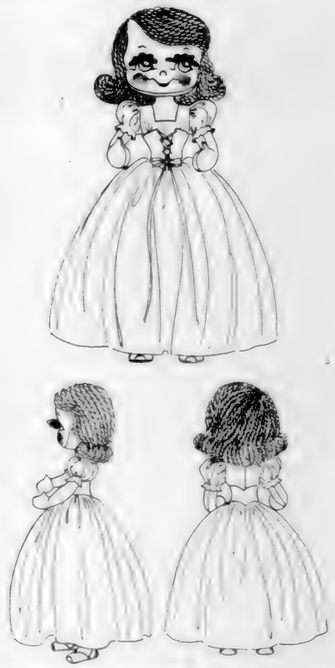


The ornamental design for a respirator or similar article, substantially as shown and described.

161,338
CASE FOR WATCHMAN'S CLOCK
Harold E. Hobby, Gardner, Mass., assignor to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts
Application June 10, 1949, Serial No. 3,196
Term of patent 14 years
(Cl. D42—7)

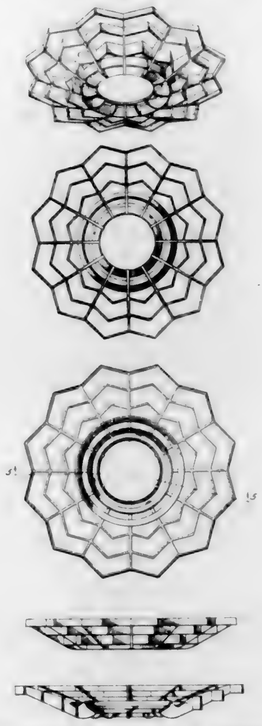
The ornamental design for a case for watchman's clock, as shown.

161,339
DOLL
Patricia J. Hueter, Seattle, Wash.
Application August 15, 1949, Serial No. 4,508
Term of patent 3½ years
(Cl. D34—4)



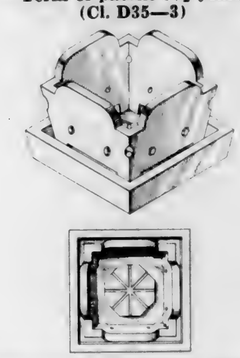
The ornamental design for a doll, as described and shown.

161,340
LIGHTING FIXTURE LOUVER
Raymond F. Hurley, Chicago, Ill.
Application January 31, 1950, Serial No. 7,603
Term of patent 14 years
(Cl. D48—23)



The ornamental design for a lighting fixture louver, as shown.

161,341
FLOWER HOLDER OR SIMILAR ARTICLE
Howard H. Isaac, Bell, Calif.
Application February 7, 1950, Serial No. 7,783
Term of patent 3½ years
(Cl. D35—3)



The ornamental design for a flower holder or similar article, substantially as shown.

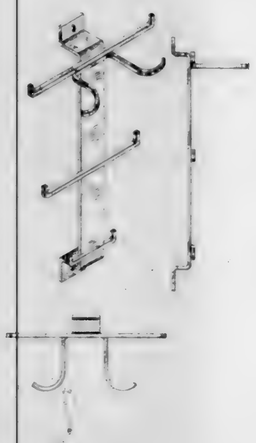
161,342
EXPANSIBLE BRACELET OR THE LIKE
Max Jacoby, Lawrence, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 2,987
Term of patent 7 years
(Cl. D45—4)

The ornamental design for an expansible bracelet or the like, as shown and described.

161,343
BROOM HOLDER OR THE LIKE
Frank E. Kabase, Birmingham, Ala.
Application March 18, 1950, Serial No. 8,620
Term of patent 14 years
(Cl. D9—2)

The ornamental design for a broom holder or the like, as shown.

161,344
BROOM HOLDER OR THE LIKE
Frank E. Kabase, Birmingham, Ala.
Application March 27, 1950, Serial No. 8,790
Term of patent 14 years
(Cl. D9—2)

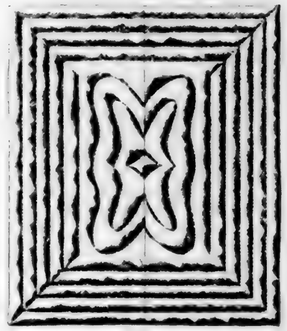


The ornamental design for a broom holder or the like, as shown.

161,345
FABRIC OR THE LIKE
Joseph Kahn, Jr., New York, N. Y.
Application February 2, 1950, Serial No. 7,680
Term of patent 7 years
(Cl. D92—1)

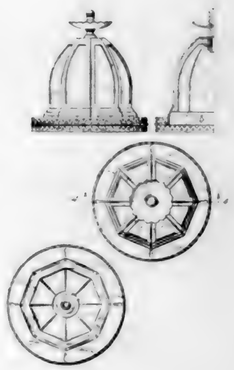
The ornamental design for a fabric or the like, as shown and described.

161,346
BED COMFORTER
Max Katz, Fort Worth, Tex.
Application February 20, 1950, Serial No. 8,026
Term of patent 14 years
(Cl. D92—2)



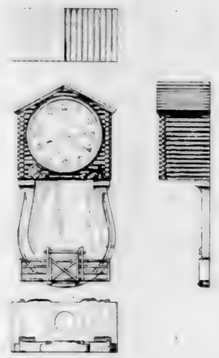
The ornamental design for a bed comforter, substantially as shown.

161,347
LANTERN
Max Kushner, Brooklyn, N. Y.
Application December 15, 1949, Serial No. 6,637
Term of patent 14 years
(Cl. D48—24)



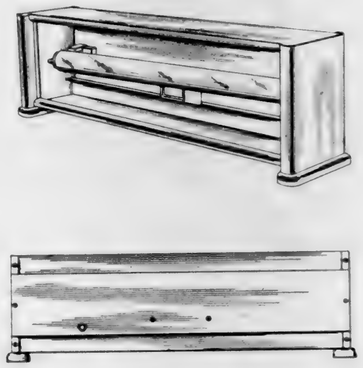
The ornamental design for a lantern, as shown and described.

161,348
CLOCK HOUSING
Ben Lerman, Chicago, Ill., assignor to Mastercrafters Clock & Radio Company, Chicago, Ill., a corporation of Illinois
Application February 24, 1950, Serial No. 8,101
Term of patent 14 years
(Cl. D42—7)



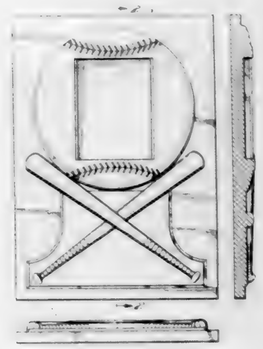
The ornamental design for a clock housing, substantially as shown and described.

161,349
NEON TUBE LIGHTED ADVERTISING DISPLAY
Robert L. Lett and Cyril Hedrick, La Crosse, Wis.
Application April 7, 1949, Serial No. 1,860
Term of patent 3½ years
(Cl. D80—9)



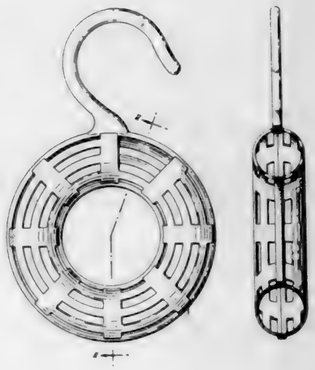
The ornamental design for a neon tube lighted advertising display, as shown and described.

161,350
PLAQUE
Louis Leventhal, New York, N. Y., assignor of one-half to Nathan Freyer, New York, N. Y.
Application July 8, 1949, Serial No. 3,781
Term of patent 7 years
(Cl. 29—23)



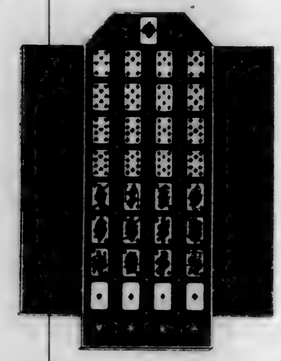
The ornamental design for a plaque, substantially as shown.

161,331
MOTHBALL CONTAINER
Rachelle Levine, Leominster, Mass.
Application April 5, 1949, Serial No. 1,799
Term of patent 3½ years
(Cl. D16—2)



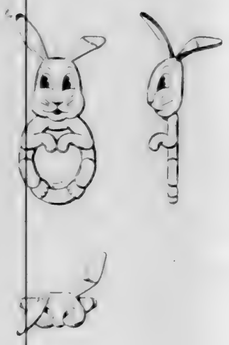
The ornamental design for a mothball container, as shown.

161,352
GAME BOARD
Gerard Madieu, Monaco, Monaco
Application July 24, 1947, Serial No. 140,494
In France July 12, 1946
Section 1, Public Law 690, August 8, 1946
Term of patent 14 years
(Cl. D34—5)



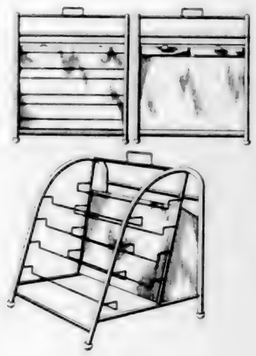
The ornamental design for a game board, as shown.

161,353
TEETHING RING
Morris Mann, Brooklyn, N. Y.
Application October 25, 1949, Serial No. 5,695
Term of patent 14 years
(Cl. D83—1)



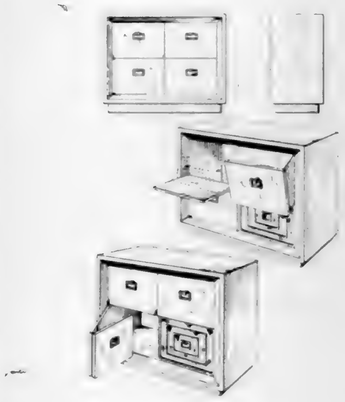
The ornamental design for a teething ring, as shown.

161,354
CLOSET SHOE RACK OR SIMILAR ARTICLE
Cecil T. Manuel, Dallas, Tex.
Application July 16, 1949, Serial No. 3,968
Term of patent 7 years
(Cl. D33—8)



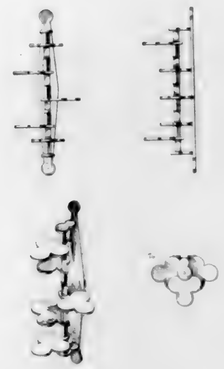
The ornamental design for a closet shoe rack or similar article, substantially as shown.

161,355
RADIO CABINET
John P. Marcy, Alhambra, Calif.
Application February 7, 1949, Serial No. 723
Term of patent 14 years
(Cl. D56—4)



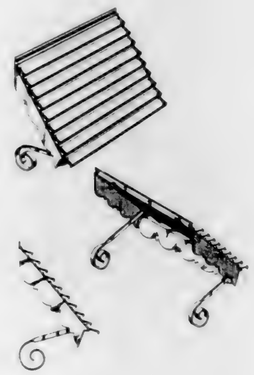
The ornamental design for a radio cabinet, as shown and described.

161,356
REVOLVING WHATNOT SHELF
Arthur Marks, Leesburg, Fla.
Application April 24, 1950, Serial No. 9,436
Term of patent 7 years
(Cl. D33—3)



The ornamental design for a revolving whatnot shelf as shown.

161,357
AWNING OR SIMILAR ARTICLE
Jean McGraw, Los Angeles, Calif.
Application October 31, 1949, Serial No. 5,811
Term of patent 14 years
(Cl. D21—6)



The ornamental design for an awning or similar article, as shown.

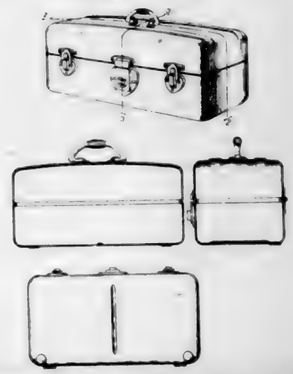
161,358
MEMO PAD HOLDER
Gordon B. Miller, Glendale, Ohio, assignor to Gordon B. Miller & Company, Cincinnati, Ohio, a company of Ohio
Application March 22, 1949, Serial No. 1,518
Term of patent 14 years
(Cl. D74—1)

The ornamental design for a memo pad holder, substantially as shown and described.

161,359
BABY'S SPOON
Harvey C. Milne, Winnipeg, Manitoba, Canada
Application March 1, 1949, Serial No. 1,150
Term of patent 3½ years
(Cl. D44—29)

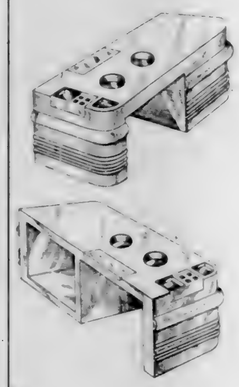
The ornamental design for a baby's spoon, substantially as shown.

161,360
CHEST
Orrin J. Mitchell, Le Roy, N. Y., assignor to Union Steel Chest Corporation, Le Roy, N. Y., a corporation of New York
Application July 10, 1950, Serial No. 11,050
Term of patent 14 years
(Cl. D87—5)



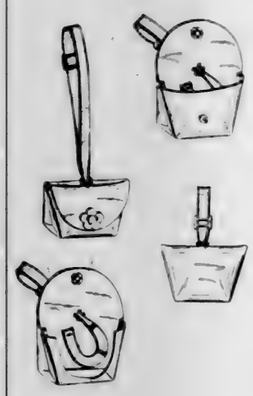
The ornamental design for a chest, as shown.

161,361
MANICURE TABLE
Patrick H. Moore, Los Angeles, Calif.
Application January 20, 1950, Serial No. 7,371
Term of patent 7 years
(Cl. D33—7)



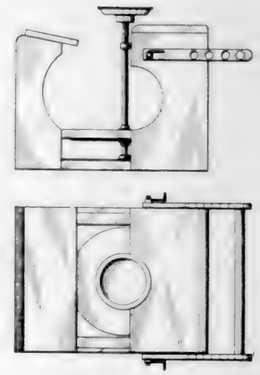
The ornamental design for a manicure table, substantially as shown.

161,362
HANDBAG
Samuel Nessimoff, Brooklyn, N. Y.
Application December 23, 1949, Serial No. 6,818
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, as shown.

161,363
POTTER'S WHEEL
Elena M. Netherby, Oakland, Calif.
Application July 25, 1949, Serial No. 4,124
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a potter's wheel, as shown.

161,364
RADIO RECEIVER CABINET
David Painter, Evanston, Ill., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application May 26, 1949, Serial No. 2,897
Term of patent 3½ years
(Cl. D56—4)

The ornamental design for a radio receiver cabinet, as shown and described.

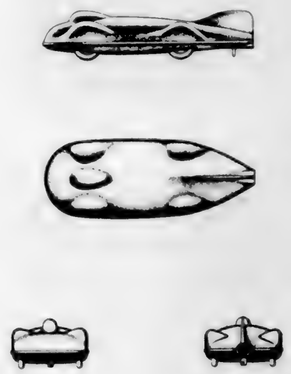
161,365
CHILD'S BIBBED SHIRT
Alex M. Parker, Hackensack, N. J.
Application May 9, 1950, Serial No. 9,827
Term of patent 14 years
(Cl. D3—25)

The ornamental design for a child's bibbed shirt, substantially as shown.

161,366
TELEPHONE HAND SET SHOULDER REST
Milton Paul, Great Neck, N. Y.
Application November 8, 1949, Serial No. 5,931
Term of patent 14 years
(Cl. D26—14)

The ornamental design for a telephone hand set shoulder rest, substantially as shown.

161,367
TOY VEHICLE
Glenn Periman, Los Angeles, Calif.
Application March 18, 1948, Serial No. 145,206
Term of patent 3½ years
(Cl. D34—15)

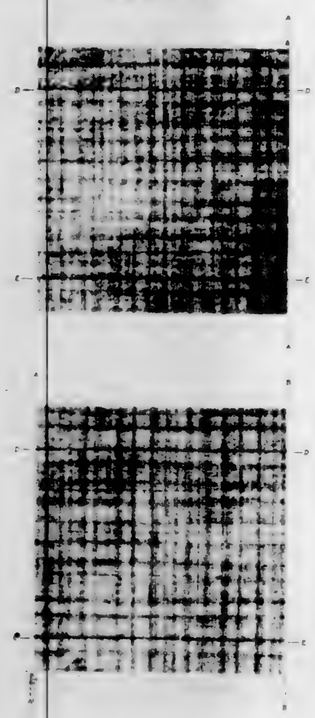


The ornamental design for a toy vehicle, as shown.

161,368
ATOMIZER
Lorenz D. Petee, Cleveland, Ohio
Application May 3, 1949, Serial No. 2,401
Term of patent 3½ years
(Cl. D83—1)

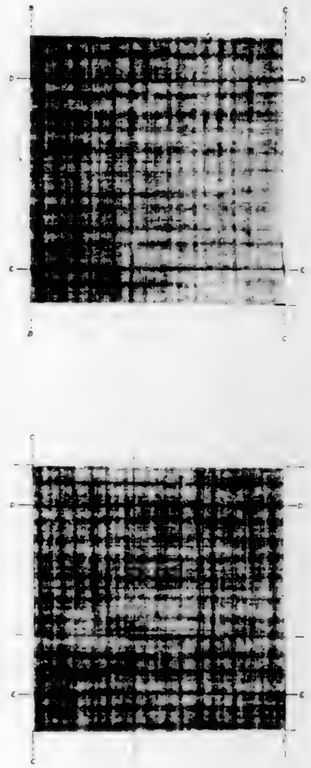
The ornamental design for an atomizer, as shown.

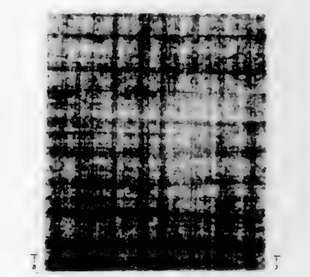
161,369
COVERING FOR SMOOTH SURFACES
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 26, 1946, Serial No. 134,277
Term of patent 14 years
(Cl. D59—10)



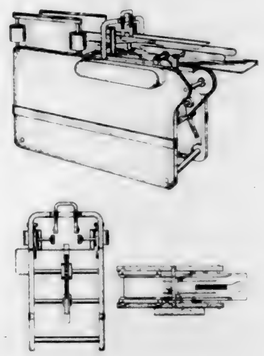
The ornamental design for a covering for smooth surfaces, as shown and described.

161,369—Continued



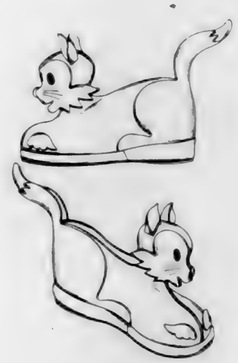


161,370
CARTON SEALER
Joseph A. Rademacher, Green Bay, Wis.
Application March 16, 1948, Serial No. 145,145
Term of patent 3½ years
(Cl. D55—1)



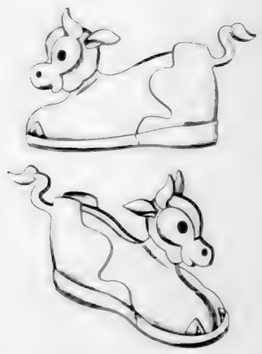
The ornamental design for a carton sealer, as shown and described.

161,371
HOUSE SHOE
John B. Reinhart, Jr., and Joseph B. Ruebel, Farmington, Mo., assignors to Trimfoot Company, Farmington, Mo.
Application January 30, 1950, Serial No. 7,561
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a house shoe, substantially as shown.

161,372
HOUSE SHOE
John B. Reinhart, Jr., and Joseph B. Ruebel, Farmington, Mo., assignors to Trimfoot Company, Farmington, Mo.
Application January 30, 1950, Serial No. 7,562
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a house shoe, substantially as shown.

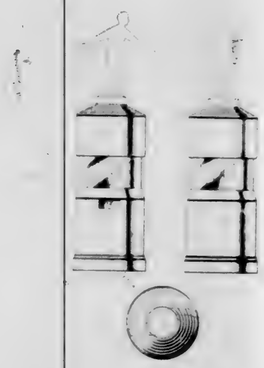
161,373
HOUSE SHOE
John B. Reinhart, Jr., and Joseph B. Ruebel, Farmington, Mo., assignors to Trimfoot Company, Farmington, Mo.
Application January 30, 1950, Serial No. 7,563
Term of patent 7 years
(Cl. D7—7)

The ornamental design for a house shoe, substantially as shown.

161,374
HOUSE SHOE
John B. Reinhart, Jr., and Joseph B. Ruebel, Farmington, Mo., assignors to Trimfoot Company, Farmington, Mo.
Application January 30, 1950, Serial No. 7,564
Term of patent 7 years
(Cl. D7—7)

The ornamental design for a house shoe, substantially as shown.

161,375
COMBINED TROPHY AND CLOCK
Harry S. Reinhardt, St. Louis, Mo.
Application May 11, 1949, Serial No. 2,574
Term of patent 7 years
(Cl. D42—7)



The ornamental design for a combined trophy and clock, as shown and described.

161,376
HANDLE FOR STOVES OR THE LIKE
Kurt Rettich, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.
Application August 10, 1949, Serial No. 4,396
Term of patent 14 years
(Cl. D81—25)

The ornamental design for a handle for stoves or the like, as shown.

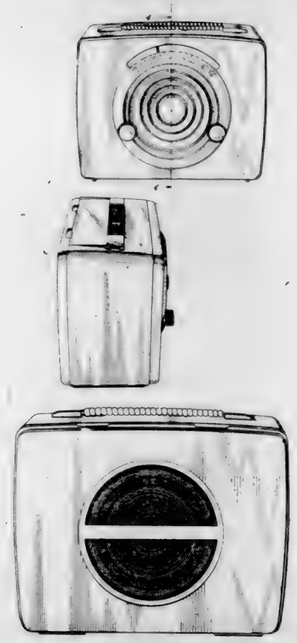
161,377
JUVENILE CRIB
Jens Risom, New York, N. Y., assignor to Colvin Corporation, Long Island City, N. Y., a corporation of New York
Application January 24, 1948, Serial No. 144,013
Term of patent 14 years
(Cl. D5—5)

The ornamental design for a juvenile crib, substantially as shown and described.

161,378
EXPANSIBLE CHAIN FOR A BRACELET OR SIMILAR ARTICLE
Saul Ritter, New York, N. Y., assignor of one-half to Marvin J. Bruner, New York, N. Y.
Application October 3, 1949, Serial No. 5,281
Term of patent 7 years
(Cl. D45—4)

The ornamental design for an expansible chain for a bracelet or similar article, as shown.

161,379
PORTABLE RADIO RECEIVER
Peter Schladermundt, Bronxville, N. Y., and Charles L. Metzler, Palisades, N. J., assignors to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application June 3, 1949, Serial No. 3,041
Term of patent 3½ years
(Cl. D56—4)

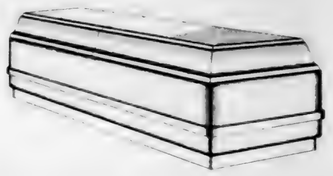


641 O. G.—88*a*

161,379—Continued

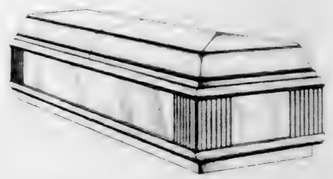
The ornamental design for a portable radio receiver, as shown and described.

161,380
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,381
Term of patent 14 years
(Cl. D19—1)



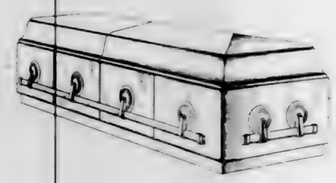
The ornamental design for a burial casket, substantially as shown and described.

161,381
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,382
Term of patent 14 years
(Cl. D19—1)



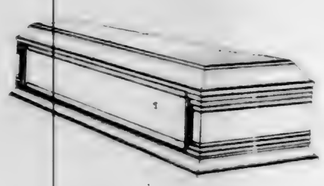
The ornamental design for a burial casket, substantially as shown and described.

161,382
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,383
Term of patent 14 years
(Cl. D19—1)



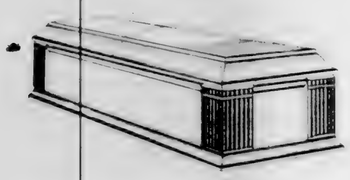
The ornamental design for a burial casket, substantially as shown and described.

161,383
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,384
Term of patent 14 years
(Cl. D19—1)



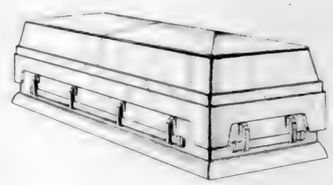
The ornamental design for a burial casket, substantially as shown and described.

161,384
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,385
Term of patent 14 years
(Cl. D19—1)



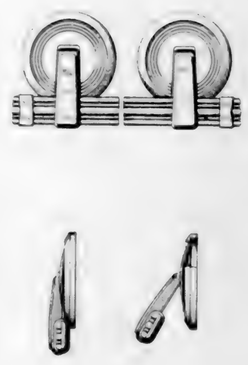
The ornamental design for a burial casket, substantially as shown and described.

161,385
BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,386
Term of patent 14 years
(Cl. D19—1)



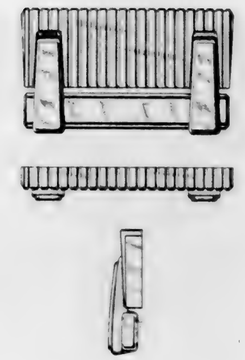
The ornamental design for a burial casket, substantially as shown and described.

161,386
HANDLE FOR A BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,387
Term of patent 14 years
(Cl. D19—2)



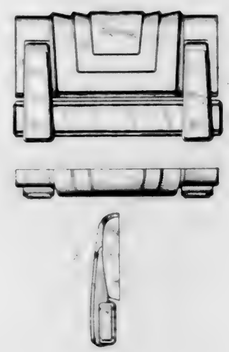
The ornamental design for a handle for a burial casket, substantially as shown.

161,387
HANDLE FOR A BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,388
Term of patent 14 years
(Cl. D19—2)



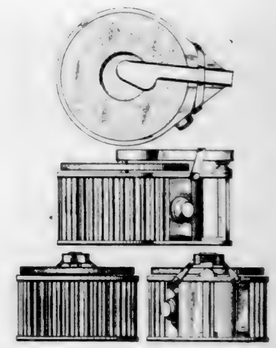
The ornamental design for a handle for a burial casket, substantially as shown.

161,388
HANDLE FOR A BURIAL CASKET
Peter Schladermundt, Bronxville, N. Y., assignor to National Casket Company, Incorporated, Oneida, N. Y., a corporation of New York
Application January 21, 1950, Serial No. 7,389
Term of patent 14 years
(Cl. D19—2)



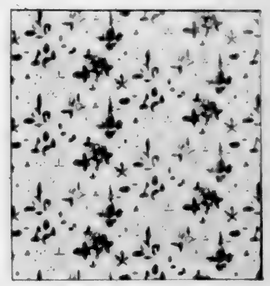
The ornamental design for a handle for a burial casket, substantially as shown.

161,389
PORTABLE PHONOGRAPH
Roger Scholle, New York, N. Y.
Application January 29, 1949, Serial No. 579
Term of patent 3½ years
(Cl. D56—4)



The ornamental design for a portable phonograph, substantially as shown.

161,390
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 4, 1950, Serial No. 8,961
Term of patent 3½ years
(Cl. D59—10)

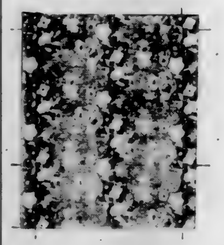


The ornamental design for a wallpaper or the like, substantially as shown and described.

161,391
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 4, 1950, Serial No. 8,964
Term of patent 3½ years
(Cl. D59—10)

The ornamental design for a wallpaper or the like, substantially as shown and described.

161,392
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 4, 1950, Serial No. 8,967
Term of patent 3½ years
(Cl. D59—10)

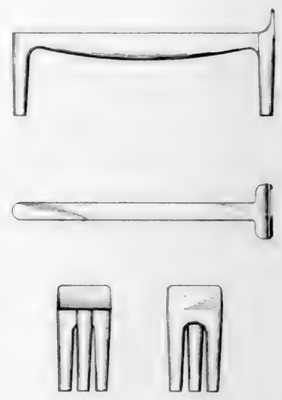


The ornamental design for a wallpaper or the like, substantially as shown and described.

161,393
WALLPAPER OR THE LIKE
James Seeman, Forest Hills, N. Y.
Application April 4, 1950, Serial No. 8,968
Term of patent 3½ years
(Cl. D59—10)

The ornamental design for a wallpaper or the like, substantially as shown and described.

161,394
FIREDOG
Ephraim C. Sooy, Kansas City, Mo.
Application March 13, 1950, Serial No. 8,501
Term of patent 7 years
(Cl. D81—6)

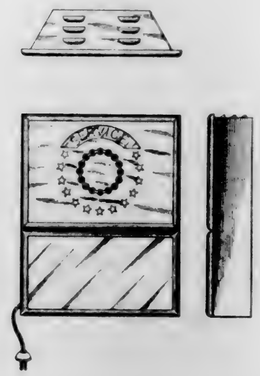


The ornamental design for a firedog, as shown.

161,395
PLATE OR THE LIKE
Rudolph Spreier, Arlington, Va., assignor to Mayer China Company, Beaver Falls, Pa., a corporation of Pennsylvania
Application March 16, 1949, Serial No. 1,424
Term of patent 14 years
(Cl. D44—15)

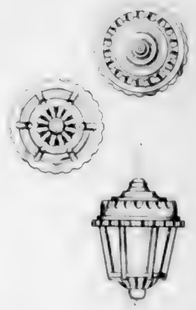
The ornamental design for a plate or the like, as shown.

161,396
ILLUMINABLE ADVERTISING SIGN
Jerome H. Steinberg, Brooklyn, N. Y.
Application November 14, 1949, Serial No. 6,035
Term of patent 3½ years
(Cl. D1—12)



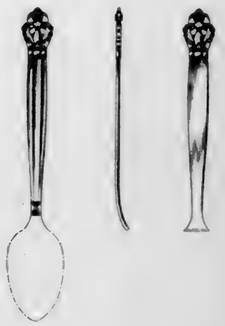
The ornamental design for an illuminable advertising sign, as shown and described.

161,397
PULL-CORD KNOB OR SIMILAR ARTICLE
Irving Hartley Steinhardt, New York, N. Y.
Application October 1, 1949, Serial No. 5,247
Term of patent 14 years
(Cl. D48—14)



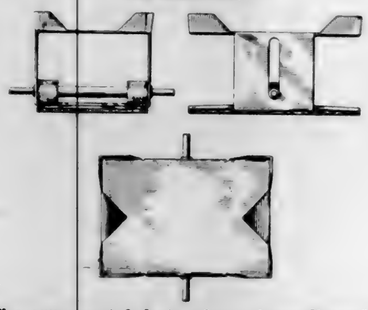
The ornamental design for a pull-cord knob or similar article, substantially as shown and described.

161,398
SPOON OR SIMILAR ARTICLE
Max H. Storch, Belle Harbor, N. Y.
Application April 24, 1950, Serial No. 9,443
Term of patent 14 years
(Cl. D54—12)



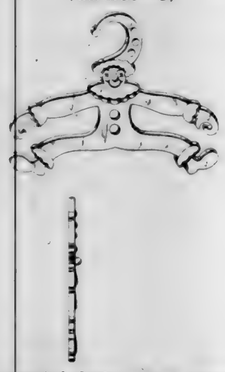
The ornamental design for a spoon or similar article, substantially as shown and described.

161,399
DRAW-DISCARD DEVICE FOR CARD GAMES
Frank J. Strassner, South Orange, N. J.
Application September 24, 1949, Serial No. 5,160
Term of patent 3½ years
(Cl. D34—13)



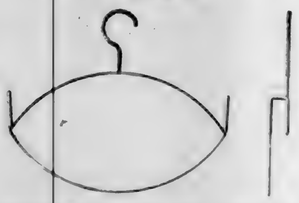
The ornamental design for a draw-discard device for card games, substantially as shown.

161,400
GARMENT HANGER
Julius Weiss, Arlington, Mass.
Application December 15, 1949, Serial No. 6,633
Term of patent 3½ years
(Cl. D33—8)



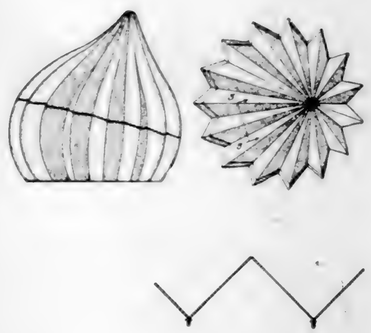
The ornamental design for a garment hanger, as shown and described.

161,401
TROUSER HANGER
Albert E. Wurtz, Whittier, Calif.
Application February 27, 1950, Serial No. 8,175
Term of patent 14 years
(Cl. D80—8)



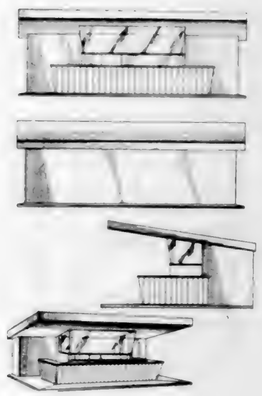
The ornamental design for a trouser hanger, as shown.

161,402
BERET
Isidore Zelniker, New York, N. Y.
Application March 28, 1949, Serial No. 1,677
Term of patent 3½ years
(Cl. D3—13)



The ornamental design for a beret, substantially as shown.

161,403
ROADSIDE STAND
Leo Zweig, San Francisco, Calif., assignor to Lyons-Magnus, Inc., San Francisco, Calif., a corporation of Delaware
Application August 1, 1949, Serial No. 4,236
Term of patent 14 years
(Cl. D13—1)



The ornamental design for a roadside stand, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abelson Bedding Co.: *See*—
Abelson, David.
Abelson, David, doing business as Abelson Bedding Co., Brooklyn, N. Y. Mattresses and studio couches. Serial No. 590,966, Dec. 26. Class 32.
Acme-Evans Company, Inc.: *See*—
Blish Milling Company.
Adams, William, Limited, Birmingham, England. Candlesticks, candelabras, and candle snuffers. Serial No. 575,107, Dec. 26. Class 34.
Aldens, Inc., Chicago, Ill. Women's and misses' wearing apparel. Serial No. 586,450, Dec. 26. Class 39.
Allied Laboratories, Inc., also doing business as Pitman-Moore Co., Indianapolis, Ind. Hydrocholeretic, antispasmodic preparation. Serial No. 577,641, Dec. 26. Class 18.
Alrose Chemical Company, Cranston and Providence, R. I. Treating woolen or worsted yarn. Serial No. 532,261, Dec. 26. Class 106.
Altman, B., & Co., New York, N. Y. Perfume, cologne, toilet water, toilet lotions, etc. Serial No. 597,115, Dec. 26. Class 51.
Amco Athletic Apparel Corp., New York, N. Y. Men's and boys' jackets. Serial Nos. 591,902–3, Dec. 26. Class 39.
American Brake Shoe Company, New York, N. Y. Apparatus for comparing the speeds of wheels, shafts and other rotating members. Serial No. 595,045, Dec. 26. Class 26.
American Chemical Society, Washington, D. C. Periodical. Serial No. 582,811, Dec. 26. Class 38.
American Human Hair Goods Co., Inc., Chicago, Ill. Hair nets. Serial No. 567,167, Dec. 26. Class 39.
American Steel Foundries, Chicago, Ill. Metal working machine tools. Serial No. 581,637, Dec. 26. Class 23.
American Stores Company, Philadelphia, Pa. Clothes line. Serial No. 590,062, Dec. 26. Class 7.
Amoe Notion Co., New York, N. Y. Seam binding. Serial No. 597,995, Dec. 26. Class 40.
Architectural Porcelain Constructors, Oakland, Calif. Porcelain coated metal panels and veneer for building surfaces. Serial No. 576,613, Dec. 26. Class 12.
Armstrong Cork Company, Lancaster, Pa. Publications. Serial No. 582,812, Dec. 26. Class 38.
Bankers Trust Company, New York, N. Y. Banking and trust services. Serial No. 591,712, Dec. 26. Class 102.
Barber-Colman Company, Rockford, Ill. Electric switches, automatically responsive to condition changes. Serial No. 583,074, Dec. 26. Class 26.
Battle Creek Equipment Company, Battle Creek, Mich. Electric-light-bath cabinets and therapeutic lamps, hydrotherapy apparatus, etc. Serial No. 547,508, Dec. 26. Class 44.
Baumann, Walter K. P., & Co., New York, N. Y. Asphalt mastic composition. Serial No. 580,458, Dec. 26. Class 12.
Bausch & Lomb Optical Company, Rochester, N. Y. Telescopic sights. Serial No. 588,734, Dec. 26. Class 26.
Bearfoot Sole Company, Inc., The, Boston, Mass. Soles and heels of rubber composition. Serial No. 595,241, Dec. 26. Class 39.
Behn, A. G., Shoe Company, Arlington, N. J. Infants', children's and growing girls' shoes. Serial No. 545,222, Dec. 26. Class 39.
Belk's Buying Service, Incorporated, Charlotte, N. C. Infants' and children's wear. Serial No. 556,539, Dec. 26. Class 39.
Belson Company, Inc., Worcester, Mass. Surfacing and resurfacing exterior and interior surfaces of buildings and dwellings. Serial No. 585,494, Dec. 26. Class 103.
Bennetts-Barnett Laboratory: *See*—
Roeding Park Pharmacy, Inc.
Berker Sportcraft Limited, London, England. Women's and children's clothing. Serial No. 570,763, Dec. 26. Class 39.
Berry, Wm. B., Co., Boston, Mass. Popcorn dispensing cabinet or apparatus. Serial No. 564,058, Dec. 26. Class 23.
Betty Fashions, Inc., New York, N. Y. Ladies' coats and suits. Serial No. 568,235, Dec. 26. Class 39.
Beverwyck Breweries, Inc., Albany, N. Y. Ale. Serial No. 583,021, Dec. 26. Class 48.
Beverwyck Breweries, Inc. Albany, N. Y. Beer. Serial Nos. 583,022–3, Dec. 26. Class 48.
Beverwyck Breweries, Inc., Albany, N. Y. Ale. Serial No. 583,025, Dec. 26. Class 48.
Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Textile rugs. Serial No. 581,114, Dec. 26. Class 42.
Binswanger & Co., Richmond, Va. Windows, sashes, transoms, outside window shutters, etc. Serial No. 571,501, Dec. 26. Class 12.
Blaw-Knox Company, Pittsburgh, Pa. Clamshell buckets, dolomite machines, etc. Serial No. 552,345, Dec. 26. Class 23.
Blish Milling Company, Seymour, assignor to Acme-Evans Company, Inc., Indianapolis, Ind. Wheat flour. Serial No. 541,640, Dec. 26. Class 46.
Bliss Display Corp., New York, N. Y. Prepared advertising plans, material, and layouts. Serial No. 578,314, Dec. 26. Class 38.
Bliss Display Corp., New York, N. Y. Designing and formulating retail store advertising, decorations and displays. Serial No. 578,315, Dec. 26. Class 101.
Bostrom, Gustav J., doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Open-type flooring. Serial No. 557,659, Dec. 26. Class 12.
Bostrom, Gustav J., doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Open-type flooring. Serial No. 562,627, Dec. 26. Class 12.
Bourjois, Inc., New York, N. Y. Eau de cologne. Serial No. 596,155, Dec. 26. Class 51.
Boyd-Welsh, Incorporated, St. Louis, Mo. Handbags. Serial No. 586,908, Dec. 26. Class 3.
Brenninkmeyer, C. & A., Inc., Brooklyn, N. Y. Articles of wearing apparel. Serial Nos. 581,244–5, Dec. 26. Class 39.
Briggs, Bates & Bacon Company, Attleboro, Mass. Expansion bracelets, ornamental pins, pendants, etc. Serial No. 594,193, Dec. 26. Class 28.
Bristol-Myers Company, New York, N. Y. Tooth powder. Serial No. 578,676, Dec. 26. Class 51.
Britton, Beverley: *See*—
Britton, Beverley L.
Britton, Beverley L., doing business under the name Beverley Britton, Chevy Chase, Md. Newspaper column. Serial No. 592,543, Dec. 26. Class 38.
Brog, Victor, doing business under the trade names of René St. Claire Products Co. and The Gintone Laboratories, Memphis, Tenn. Preparation for removing dandruff, hair oil, hair tonics, etc. Serial No. 559,804, Dec. 26. Class 51.
Brown, H. H., Shoe Co., Inc., Worcester, Mass. Men's and boys' shoes. Serial No. 596,258, Dec. 26. Class 39.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Machine for reconditioning bowling pins. Serial No. 514,798, Dec. 26. Class 23.
Buffalo Evening News: *See*—
Butler, Edward H.
Bullard Clark Company, The, assignee: *See*—
Jacobs, E. H., Manufacturing Co., Inc.
Butler Brothers, Chicago, Ill. Sheeting and pillow tubing, mattress covers, etc. Serial No. 567,495, Dec. 26. Class 42.
Butler, Edward H., doing business as Buffalo Evening News, Buffalo, N. Y. Newspaper columns or sections. Serial No. 539,649, Dec. 26. Class 38.
Buzza-Cardozo, Los Angeles, Calif. Greeting cards. Serial No. 594,194, Dec. 26. Class 38.
C & H Supply Company, Seattle, Wash. Metal character-bearing labels. Serial No. 577,705, Dec. 26. Class 38.
Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 593,052, Dec. 26. Class 6.
Cady, Smith H., Jr., San Jose, Calif. Confectionery trade publication. Serial No. 548,572, Dec. 26. Class 38.
Califone Corporation, Los Angeles, Calif. Electrical apparatus. Serial No. 580,716, Dec. 26. Class 21.
Cambridge Rubber Company, The, Taneytown, Md. Shoe soles. Serial No. 580,574, Dec. 26. Class 39.
Carter Parts Company, Chicago, Ill. Conductor jacks. Serial No. 580,286, Dec. 26. Class 21.
Cellowax Co., The: *See*—
Cellowax Company, The.
Cellowax Company, The, also trading under the name of The Cellowax Co., Baltimore, Md. Dry cleaning composition. Serial No. 589,560, Dec. 26. Class 52.
Chapman Manufacturing Co., Corvallis, Oreg. Pressed wood fiber board, and doors. Serial No. 583,678, Dec. 26. Class 12.
Chatham Manufacturing Company, Elkin, N. C. Blankets; suitings; and upholstery fabrics. Serial No. 571,113, Dec. 26. Class 42.
Cherokee Electric Company, Fountain City, Tenn. Electrical services. Serial No. 576,792, Dec. 26. Class 103.
Chester Cable Corp., Chester, N. Y. Electric insulated wire. Serial No. 582,414, Dec. 26. Class 21.
Chini, Nicky, Milan, Italy. Perfumes. Serial No. 519,924, Dec. 26. Class 51.
Clark Brothers Chewing Gum Company, Pittsburgh, Pa. Chewing gum. Serial No. 563,603, Dec. 26. Class 46.
Clayton Manufacturing Company, The, Bristol, Conn. Scissors and shears. Serial No. 544,705, Dec. 26. Class 23.
Cohn-Hall-Marx Co., now by merger United Merchants and Manufacturers Inc., New York, N. Y. Piece goods. Serial No. 576,852, Dec. 26. Class 42.
Colonial Knife Company, Inc., Providence, R. I. Pocket knives. Serial No. 573,118, Dec. 26. Class 23.
Colonial Provision Co., Inc., Boston, Mass. Canned beef with gravy. Serial No. 579,667, Dec. 26. Class 46.

Colorado Milling & Elevator Co., The, doing business as The Ft. Collins Flour Mills Co., Denver and Ft. Collins, Colo., and elsewhere. Wheat flour. Serial No. 551,857, Dec. 26. Class 46.
Columbia Products Corporation, Brooklyn, N. Y. Bag or case. Serial No. 598,158, Dec. 26. Class 3.
Consolidated Vultee Aircraft Corporation, San Diego, Calif., assignor to Piper Aircraft Corporation, Lock Haven, Pa. Airplanes. Serial No. 533,666, Dec. 26. Class 19.
Cooper, Oma L., doing business as Oma Lee Originals, Kansas City, Mo. Children's dresses. Serial No. 589,891, Dec. 26. Class 39.
Copco Steel & Engineering Company, Detroit, Mich. Steel windows. Serial No. 573,077, Dec. 26. Class 12.
Corgi Hosiery Limited, Ammanford, Carmarthenshire, South Wales. Stockings and socks. Serial No. 587,179, Dec. 26. Class 39.
Cotta Transmission Corporation, Rockford, Ill. Change-speed transmissions. Serial No. 541,407, Dec. 26. Class 23.
Crawford Manufacturing Co., Inc., Richmond, Va. Seat cover fabrics. Serial No. 578,771, Dec. 26. Class 42.
Creamette Company, The, Minneapolis, Minn. Macaroni food. Serial No. 582,894, Dec. 26. Class 46.
Cutter Laboratories, Berkeley, Calif. Human and veterinary biologics; clostridium hemolyticum bacterin, etc. Serial No. 581,471, Dec. 26. Class 18.
Cyprus Wine and Spirits Company, Ltd., Limassol, Cyprus. Wines. Serial No. 520,444, Dec. 26. Class 47.
Cyprus Wine and Spirits Company, Ltd., Limassol, Cyprus. Brandy, ouzo, gin, etc. Serial No. 520,445, Dec. 26. Class 49.
Davis & Cattersill, New York, N. Y. Handkerchiefs. Serial No. 587,939, Dec. 26. Class 39.
Davis Specialties Incorporated, Chicago, Ill. Press plates and pads for pressing clothes. Serial No. 589,077, Dec. 26. Class 24.
Davison Chemical Corporation, The, Baltimore, Md. Moth-proofing compound. Serial No. 584,714, Dec. 26. Class 6.
Day's Tailor-D Clothing, Inc., Tacoma, Wash. Men's and boys' trousers. Serial No. 589,199, Dec. 26. Class 39.
Dayton Company, The, Minneapolis, Minn. Table cloths, napkins, sheets, etc. Serial No. 580,979, Dec. 26. Class 42.
Desitin Chemical Co., Providence, R. I. Nursery and toilet powder. Serial No. 596,486, Dec. 26. Class 51.
Diamond Council of America, New York, N. Y. Consulting, advisory and supervisory services. Serial No. 576,527, Dec. 26. Class 100.
Dinson Clock Corp., Jamaica, N. Y. Clocks. Serial Nos. 588,167–8, Dec. 26. Class 27.
Dixie Belle Textiles, Inc., Gibsonville, N. C. Ladies' lingerie. Serial No. 523,178, Dec. 26. Class 39.
Doane Agricultural Service, Inc., St. Louis, Mo. Drawings for constructing agricultural buildings. Serial No. 545,965, Dec. 26. Class 38.
Dorrer, Walter B., doing business under the fictitious name and style of Elgbee & Dorrer, Los Angeles, Calif. Finger rings. Serial No. 588,790, Dec. 26. Class 28.
Douglas Fir Plywood Association, Tacoma, Wash. Fir plywood. Serial No. 563,915, Dec. 26. Class 12.
Dryomatic Corporation of America: *See*—
Schape Manufacturing Company, The.
Dunhill, Alfred, Limited, London, England. Billfolds, purses, handbags, etc. Serial No. 581,711, Dec. 26. Class 3.
Dunwody, R. G., & Sons, Inc., Atlanta, Ga. Analgesic antipyretic. Serial No. 573,534, Dec. 26. Class 18.
Duquesne Brewing Company of Pittsburg, Pittsburgh, Pa. Beer. Serial No. 592,805 Dec. 26. Class 48.
Duquesne Manufacturing Company, The, New Kensington, Pa. Women's bungalow aprons, dresses, petticoats, etc. Serial Nos. 586,795–7, Dec. 26. Class 39.
Edison, Thomas A., Incorporated, West Orange, N. J. Primary batteries. Serial No. 594,699, Dec. 26. Class 21.
Edmunds, George B., Atlanta, Ga. Perfumes. Serial No. 555,393, Dec. 26. Class 51.
El Chico Cafe, Dallas, Tex. Restaurant services. Serial No. 587,431, Dec. 26. Class 100.
Engel, Jane, Inc., New York, N. Y. Women's and girls' clothing, and accessories, and children's and infants' coats, etc. Serial No. 577,374, Dec. 26. Class 39.
Ercona Camera Corporation, New York, N. Y. Cameras. Serial No. 591,844, Dec. 26. Class 26.
Erie Railroad Company, Cleveland, Ohio. Railroad, highway and marine transportation. Serial No. 592,887, Dec. 26. Class 105.
Erving Paper Mills, Erving, Mass. Paper napkins, toilet paper and paper towels. Serial No. 592,703, Dec. 26. Class 37.
Eureka Williams Corporation, Bloomington, Ill. Oil burners. Serial No. 579,958, Dec. 26. Class 34.
Eversharp, Inc., Chicago, Ill. Safety razor kits. Serial No. 588,102, Dec. 26. Class 23.
Factle Corporation, Paterson, N. J. Ribbons of acetate film and rayon yarn. Serial No. 593,719, Dec. 26. Class 7.
Farmers' Butane-Propane Service, Modesto, Calif. Liquefied petroleum fuel gas. Serial No. 584,227, Dec. 26. Class 6.
Feedrail Corporation, New York, N. Y. Assemblies for electric power transmission. Serial No. 558,643, Dec. 26. Class 21.
Fielding & Johnson Limited, Leicester, England. Hand knitting and fingering yarns, mending yarns, tapestry yarns, etc. Serial No. 594,029, Dec. 26. Class 43.
Fitts Dry Goods Company, Kansas City, Mo. Pillow cases, sheets and table cloths. Serial No. 570,844, Dec. 26. Class 42.
Flato, Paul, Sales Corporation, New York, N. Y. Unfilled containers. Serial No. 576,256, Dec. 26. Class 2.
Folding Products Mfg. Corp., New York, N. Y. Umbrellas. Serial No. 599,561, Dec. 26. Class 41.
Food Fair Stores, Inc., Philadelphia, Pa. Fresh eggs. Serial No. 565,332, Dec. 26. Class 46.
Ft. Collins Flour Mills Co., The: *See*—
Colorado Milling & Elevator Co., The.
Foster Engineering Co., Inc., Chicago, Ill., now by change of name Metrotype Corporation. Automatic printing and totalizing metering apparatus. Serial No. 587,472, Dec. 26. Class 26.
Fran-Stef Manufacturing Company, New York, N. Y. Billfolds and wallets. Serial Nos. 599,322–3, Dec. 26. Class 3.
Friedman, Bert J., Santa Monica, Calif. Sun tan lotion. Serial No. 580,295, Dec. 26. Class 51.
Gang, Leopold, Inc., New York, N. Y. Garment interlining. Serial No. 584,627, Dec. 26. Class 42.
Garrett Corporation, The, Los Angeles, Calif. Engineering services. Serial No. 556,095, Dec. 26. Class 103.
General Aniline & Film Corporation, New York, and Binghamton, N. Y. Periodical publications. Serial No. 594,117, Dec. 26. Class 38.
General Baking Company, New York, N. Y. Bread, bread crumbs, coffee rings, etc. Serial No. 593,344, Dec. 26. Class 46.
General Features Corporation, New York, N. Y. Cartoons appearing in newspaper publications. Serial No. 591,778, Dec. 26. Class 38.
Gillette Safety Razor Company, Boston, Mass. Creme hair dressing. Serial No. 597,146, Dec. 26. Class 51.
Glovecraft, Inc., Johnstown, N. Y. Gloves. Serial No. 587,724, Dec. 26. Class 39.
Godefroy Manufacturing Company, St. Louis, Mo. Oil shampoo tint, drab toner, hair bleach, etc. Serial No. 557,920, Dec. 26. Class 51.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 583,747, Dec. 26. Class 42.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 583,749, Dec. 26. Class 42.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 583,751, Dec. 26. Class 42.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 583,754, Dec. 26. Class 42.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles for boots and shoes. Serial No. 595,892, Dec. 26. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels for boots and shoes. Serial No. 595,893, Dec. 26. Class 39.
Grace Electronics Inc., New York, N. Y. Magnetic sound recorders. Serial No. 589,086, Dec. 26. Class 21.
Graham, G. Milo, doing business as Thermo-Fluf Insulation Company, Wichita, Kans. Building insulation material. Serial No. 521,447, Dec. 26. Class 12.
Graybar Electric Company, Inc., New York, N. Y. Electrical friction tape and insulating rubber tape. Serial No. 588,643, Dec. 26. Class 21.
Greensboro Twine Company: *See*—
Yancey, Clement L., Jr.
Green Spring Co., The: *See*—
Green Spring Co., Inc., The.
Green Spring Co., Inc., The, Newville, Pa., assignee of The Green Spring Co. Frozen trout. Serial No. 516,013, Dec. 26. Class 46.
Gruen Watch Company, The, Cincinnati, Ohio. Bracelets. Serial No. 593,637, Dec. 26. Class 28.
Gum Products, Inc., Boston, Mass. Chewing gum. Serial No. 558,490, Dec. 26. Class 46.
Gustinettes, Incorporated, New York, N. Y. Women's slippers and casuals. Serial No. 592,488, Dec. 26. Class 39.
Gynecological Specialties, St. Louis, Mo., assignor to Gynecological Specialties, Inc., Alton, Ill. Medicinal preparation used in the treatment of trichomonas vaginalis and vaginitis. Serial No. 580,363, Dec. 26. Class 18.
Gynecological Specialties, Inc.: *See*—
Gynecological Specialties.
Hagerstown Rubber Company, The, Hagerstown, Md. Rubber soles and heels. Serial No. 583,199, Dec. 26. Class 39.
Hairspring Vibrating Co.: *See*—
Verde, Charles D.
Hardwick Stove Company, Incorporated, Cleveland, Tenn. Gas stoves and ranges. Serial No. 594,837, Dec. 26. Class 34.
Haviland & Co., Incorporated, New York, N. Y., by change of name from Theodore Haviland & Co. Inc. Porcelain, china and vitrified dinnerware. Serial No. 588,800, Dec. 26. Class 30.
Haviland, Theodore, & Co. Inc.: *See*—
Haviland & Co., Incorporated.
Hawley Products Company, St. Charles, Ill. Hand luggage. Serial No. 582,425, Dec. 26. Class 3.

Hickey-Freeman Company, Rochester, N. Y. Men's overcoats. Serial No. 538,920, Dec. 26. Class 39.
Hickey-Freeman Company, Rochester, N. Y. Men's suits. Serial No. 538,923, Dec. 26. Class 39.
Higbee & Dorrer: *See*—
Dorrer, Walter B.
Hill, Jack H., doing business as Hills Manufacturing Co., St. Paul, Minn. Moth repellent preparation. Serial No. 578,794, Dec. 26. Class 6.
Hills Manufacturing Co.: *See*—
Hill, Jack H.
Hines, Edward, Lumber Co., Chicago, Ill. Yellow pine, Douglas fir and western hemlock lumber. Serial No. 541,141, Dec. 26. Class 12.
Hirzel Canning Company: *See*—
Hirzel, Karl A.
Hirzel, Karl A., doing business as Hirzel Canning Company, Toledo, Ohio. Canned vegetables, canned vegetable juices, tomato catsup, etc. Serial No. 504,553, Dec. 26. Class 46.
Hollinger, Joseph, & Co., Inc., New York, N. Y. Eye glasses, eye glass frames and eye glass lenses. Serial No. 516,545, Dec. 26. Class 26.
Holtite Manufacturing Company, The, Baltimore, Md. Rubber heels and soles. Serial No. 571,696, Dec. 26. Class 39.
Hooper Paper & Twine Co., Inc., Philadelphia, Pa. Twines, cords, ropes, etc. Serial No. 598,182, Dec. 26. Class 7.
Hunter Douglas Corporation, New York, N. Y. Window awnings fabricated of sheet metal. Serial No. 582,605, Dec. 26. Class 12.
Hysan Products Company, Chicago, Ill. Liquid deodorant. Serial No. 584,231, Dec. 26. Class 6.
Impervious Products Co., Chicago, Ill. Water proofing, fire proofing and sealing compound. Serial No. 500,662, Dec. 26. Class 6.
International Business Machines Corporation, New York, N. Y. Electrical and electronic apparatus. Serial No. 581,067, Dec. 26. Class 21.
International Silver Company, The, Meriden, Conn. Sterling silver table ware. Serial No. 595,259, Dec. 26. Class 28.
Irvington Varnish and Insulator Company, Irvington, N. J. Synthetic resinous materials. Serial No. 550,924, Dec. 26. Class 6.
Isaacs, I. C., & Co., Inc., Baltimore, Md. Women's sportswear. Serial No. 597,336, Dec. 26. Class 39.
Ives-Cameron Company, Inc., New York, N. Y. Antihistamine compound. Serial No. 594,840, Dec. 26. Class 18.
Jacobs, E. H., Manufacturing Co., Inc., assignor to The Bullard Clark Company, Danielson, Conn. Textile machinery. Serial No. 557,454, Dec. 26. Class 23.
Kanmak Textiles Inc., New York, N. Y. Woolen piece goods and piece goods made of wool blended with cotton. Serial No. 570,259, Dec. 26. Class 42.
Kappa Beta Pi Legal Sorority, Chicago, Ill. Periodical publication. Serial No. 594,128, Dec. 26. Class 38.
Karl's Shoe Stores, Ltd., Los Angeles, Calif. Women's hosiery. Serial No. 590,370, Dec. 26. Class 39.
Kerotest Manufacturing Company, Pittsburgh, Pa. Refrigeration accessories. Serial No. 560,026, Dec. 26. Class 31.
Keystone Manufacturing Company, Schuylkill Haven, Pa. Anthracite stokers, anthracite stoker-boiler units and parts thereof. Serial No. 592,912, Dec. 26. Class 34.
King, John, & Son Limited, Glasgow, Scotland. Window hollands, shade cloth, bed sheets, etc. Serial No. 571,219, Dec. 26. Class 42.
King Ranch, Kingsville, Tex. Livestock. Serial No. 605,703, Dec. 26. Class 1.
King Research, Inc., Brooklyn, N. Y. Hair rinsing solution. Serial No. 595,965, Dec. 26. Class 51.
Klik Promotions, Inc., New York, N. Y. Device for attachment to the handle of a ladies' handbag. Serial No. 596,498, Dec. 26. Class 40.
Kono Manufacturing Company, Woodside and New York, N. Y. Spectacle frames. Serial No. 594,477, Dec. 26. Class 26.
Kooperativa Förbundet, Förening U. P. A., Stockholm, Sweden. Cash registers, calculating machines, coin exchanging apparatus, etc. Serial No. 582,459, Dec. 26.
Kotake Company, Limited, Honolulu, T. H. Canned foods. Serial No. 592,209, Dec. 26. Class 46.
Kreider, A. S., & Son Co., The, Palmyra, Pa. Misses', girls', boys', men's, women's and children's shoes. Serial No. 582,358, Dec. 26. Class 39.
Land-O-Nod Company, The, Minneapolis, Minn. Mattresses. Serial No. 533,452, Dec. 26. Class 32.
Landorf, Sam, & Co., Inc., New York, N. Y. Children's dresses. Serial No. 592,326, Dec. 26. Class 39.
Langtry, James H., doing business under the name and title Langtry Photo Service, Buffalo, N. Y. Photo prints. Serial Nos. 543,940–1, Dec. 26. Class 38.
Langtry Photo Service: *See*—
Langtry, James H.
Laubly, Richard, Westport, Conn. Softening preparation. Serial No. 555,758, Dec. 26. Class 52.
Lavin, Jose D., Mexico City, Mexico. Carburators for automobiles. Serial No. 591,740, Dec. 26. Class 23.
Lehon Company, The, Chicago, Ill. Automobile floor covers and running board covers, cab curtains, etc. Serial No. 520,730, Dec. 26. Class 19.
Lenel Co.: *See*—
Rothchild, Lionel G.
Lewitt Bros. & Co., Inc., New York, N. Y. Watchcases. Serial No. 586,093, Dec. 26. Class 27.
Lima-Hamilton Corporation, Lima, Ohio, by change of name from Lima Locomotive Works, Incorporated. Material and load moving and handling equipment. Serial No. 523,846, Dec. 26. Class 23.
Lima Locomotive Works, Incorporated: *See*—
Lima-Hamilton Corporation.
Limestone Products Corporation of America, Newton, N. J. Ground or pulverized limestone. Serial No. 592,273, Dec. 26. Class 1.
Lith-O-Ware Products, Inc., Chicago, Ill. Hostess tray sets. Serial No. 590,167, Dec. 26. Class 33.
Los Angeles Junior Chamber of Commerce, Los Angeles, Calif. Program in the form of a magazine. Serial No. 560,338, Dec. 26. Class 38.
Lyon, Incorporated, Detroit, Mich. Wheel covers. Serial No. 569,164, Dec. 26. Class 19.
MacBeth Engineering Corporation, Harrisburg, Pa. Continuous and automatic deep fat food fryers and pretzel cookers, and attachments therefor. Serial No. 562,865, Dec. 26. Class 34.
Mace, Kenneth G., doing business under the name and style of Mace Laboratories, Neenah, Wis. Preparation for the treatment of coughs. Serial No. 588,695, Dec. 26. Class 18.
Mace Laboratories: *See*—
Mace, Kenneth G.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric capacitors. Serial No. 595,607, Dec. 26. Class 21.
Marchand, Charles, Company, The, New York, N. Y. Peroxide of hydrogen. Serial No. 577,724, Dec. 26. Class 6.
Martin Tile Company, The, Kansas City, Mo. Tile. Serial No. 522,231, Dec. 26. Class 12.
Master Pad Corporation, New York, N. Y. Batting and filler material. Serial No. 591,745, Dec. 26. Class 1.
McKee Door Company, Aurora, Ill. Overhead type track mounted door assemblies. Serial No. 565,712, Dec. 26. Class 12.
McLean, Dr. J. H., Medicine Co., The, St. Louis, Mo. Tablets for symptomatic relief of colds and hay fever. Serial No. 594,650, Dec. 26. Class 18.
Mead Corporation, The, Dayton, Ohio. Powdered extract product. Serial No. 579,337, Dec. 26. Class 6.
Meltzer, Henry, doing business under the name of Popcorn Service Company, New York, N. Y. Snacks. Serial No. 539,544, Dec. 26. Class 46.
Merchants and Manufacturers Inc.: *See*—
Cohn-Hall-Marx Co.
Metrotype Corporation: *See*—
Foster Engineering Co., Inc.
Meyer, Herbert, New York, N. Y. Silks, rayons, cottons, etc. Serial No. 577,582, Dec. 26. Class 42.
Miller Freeman Publications of California, San Francisco, Calif. Monthly publication. Serial No. 577,635, Dec. 26. Class 38.
Miller, L. & Sons, Inc., Long Island City, N. Y. Women's and misses' shoes. Serial No. 545,506, Dec. 26. Class 39.
Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn. Railroad passenger and freight transportation service. Serial No. 591,942, Dec. 26. Class 105.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Liquid for activating adhesive coating. Serial No. 594,276, Dec. 26. Class 6.
Monsanto Chemical Company, St. Louis, Mo. Compound for use as an aid in the vulcanization of rubber. Serial No. 579,549, Dec. 26. Class 6.
Mosso, C. A., Company, Chicago, Ill. Antiseptics, bactericides and germicides. Serial No. 564,083, Dec. 26. Class 18.
Murphy, H. R., Company, Brawley, Calif. Fresh vegetables. Serial No. 592,379, Dec. 26. Class 46.
Nachman, Joseph, Philadelphia, Pa. Blouses. Serial No. 535,174, Dec. 26. Class 39.
Namor Products, Inc., Cleveland, Ohio. Extension tables. Serial No. 594,566, Dec. 26. Class 32.
National Blank Book Company, Holyoke, Mass. Loose leaf binders. Serial No. 546,017, Dec. 26. Class 37.
National Pressure Cooker Company, Eau Claire, Wis. Combination super-heater and water trap. Serial No. 593,041, Dec. 26. Class 21.
National Silver Company, New York, N. Y. Stainless steel table cutlery. Serial No. 601,162, Dec. 26. Class 23.
Needle Industries Limited, Birmingham, England. Needles. Serial No. 585,541, Dec. 26. Class 40.
Nell Products Inc., Los Angeles, Calif. Fruit concentrate. Serial No. 554,142, Dec. 26. Class 46.
Nelson-Columbia, Hugh, Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. Serial No. 582,645, Dec. 26. Class 42.
Nestle Company, Inc., The, New York, N. Y. Specially prepared milk food. Serial No. 592,514, Dec. 26. Class 46.
New England Industries, Inc., The, New York, N. Y. Medicinal preparation. Serial No. 590,178, Dec. 26. Class 18.

New York Girl Coat Co., Inc., New York, N. Y. Coats for women and young women. Serial No. 597,222, Dec. 26. Class 39.
New York Herald Tribune Inc., New York, N. Y. Comic strip. Serial No. 593,283, Dec. 26. Class 38.
Niagara Filter Corporation, Buffalo, N. Y. Filtering leaf devices. Serial No. 597,220, Dec. 26. Class 31.
Nod-A-Way, Inc., San Antonio, Tex. Mattresses. Serial No. 579,992, Dec. 26. Class 32.
Nopco Chemical Company, Harrison, N. J. Sulfated fatty oils, sulfated fatty acid, fatty amides, etc. Serial No. 583,490, Dec. 26. Class 6.
Northwest Airlines, Inc., St. Paul, Minn. General porter service. Serial No. 586,425, Dec. 26. Class 105.
Norwich Knitting Company, Norwich, N. Y. Textile fabric. Serial No. 577,444, Dec. 26. Class 42.
Novelty Jewelry Co., New York, N. Y. Clutch pins. Serial No. 591,859, Dec. 26. Class 28.
Ohio Mattress Company, The, Cleveland, Ohio. Mattresses. Serial No. 591,860, Dec. 26. Class 32.
Ohio Valley Bag and Burlap Co., Louisville, Ky. Cotton and burlap bags. Serial No. 594,917, Dec. 26. Class 2.
Old Colony Envelope Company, Westfield, Mass. Writing paper and envelopes and wrapping paper. Serial No. 592,831, Dec. 26. Class 37.
Olympic Glove Company, Inc., The, New York, N. Y. Protective apparel. Serial No. 592,575, Dec. 26. Class 39.
Oma Lee Originals: *See*—
Cooper, Oma L.
Oneida Fabrics Corporation, New York, N. Y. Piece goods. Serial No. 578,887, Dec. 26. Class 42.
Orbon Stove Co., Belleville, Ill. Hot air furnaces and heating stoves. Serial No. 591,509, Dec. 26. Class 34.
Otte, Otho M., Tarentum, Pa. Metal tableware. Serial No. 593,610, Dec. 26. Class 23.
Paper and Industrial Appliances, Inc., New York, N. Y. Digesters for lignocellulosic material. Serial No. 582,852, Dec. 26. Class 23.
Parks, Virginia, Inc., Chicago, Ill. Personal deodorant. Serial Nos. 581,491–2, Dec. 26. Class 51.
Parkwah Chemical Co.: *See*—
Parkwah, George H.
Parkwah, George H., doing business as Parkwah Chemical Co., Seattle, Wash. Textile water-proofing agents. Serial No. 583,492, Dec. 26. Class 6.
Patons & Baldwins, Inc., New York, N. Y. Wool yarn. Serial Nos. 596,516–17, Dec. 26. Class 43.
Patons & Baldwins, Inc., New York, N. Y. Knitting pins. Serial Nos. 596,518–19, Dec. 26. Class 40.
Peck & Peck, New York, N. Y. Jackets. Serial No. 579,289, Dec. 26. Class 39.
Pep Boys-Manny, Moe & Jack, The, Philadelphia, Pa. Storage batteries, dry cell batteries, automobile electric bulb kits, etc. Serial No. 596,940, Dec. 26. Class 21.
Pfeil, Arthur H., Buffalo, N. Y. Umbrellas. Serial No. 593,930, Dec. 26. Class 41.
Philadelphia Hosiery Company: *See*—
Victorson, Gustave P.
Pinkerton's National Detective Agency, Inc., New York, N. Y. Private detective investigations and property surveillance. Serial No. 593,560, Dec. 26. Class 100.
Piper Aircraft Corporation: *See*—
Consolidated Vultee Aircraft Corporation.
Piper Aircraft Corporation, Lock Haven, Pa. Airplane parts. Serial No. 590,386, Dec. 26. Class 19.
Pitman-Moore Co.: *See*—
Allied Laboratories, Inc.
Planco Mfg. Co., Inc., Wichita, Kans. Frozen food lockers. Serial No. 596,439, Dec. 26. Class 31.
Popcorn Service Company: *See*—
Moltzer, Henry.
Porta-Cue Corporation, New York, N. Y. Electric portable barbecue grills. Serial No. 592,578, Dec. 26. Class 21.
Prophetic Digest Publishing Company, Collingdale, Pa. Periodical. Serial No. 588,143, Dec. 26. Class 38.
R. R. Watch Crystal Corp., New York, N. Y. Wrist watch straps. Serial No. 595,513, Dec. 26. Class 28.
Rankin, Arthur C., doing business as Rankin Publications, Ottumwa, Iowa. Periodic pamphlets. Serial No. 588,047, Dec. 26. Class 38.
Rankin Publications: *See*—
Rankin, Arthur C.
Rathborne, Hair & Ridgway Box Co.: *See*—
Rathborne, Hair & Ridgway Company.
Rathborne, Hair & Ridgway Company, assignor to Rathborne, Hair & Ridgway Box Co., Chicago, Ill. Wooden and fibreboard boxes and crates and trays. Serial No. 540,106, Dec. 26. Class 2.
Regal Knitwear Company, Inc., New York, N. Y. Knitted wear. Serial No. 543,836, Dec. 26. Class 39.
Revlon Products Corporation, New York, N. Y. Nail enamel, lipsticks, face rouge, etc. Serial No. 586,431, Dec. 26. Class 51.
Reynolds Metals Company, Richmond, Va. Printed strip labels. Serial No. 593,371, Dec. 26. Class 38.
Risvold, Halward I., Minneapolis, Minn. Shoe laces. Serial No. 596,804, Dec. 26. Class 40.
Rocky Mount Cord Company, Rocky Mount, N. C. Cord and rope. Serial No. 602,164, Dec. 26. Class 7.
Roeding Park Pharmacy, Inc., doing business as Bennetts-Barnett Laboratory, Fresno, Calif. Scalp preparation. Serial No. 561,946, Dec. 26. Class 51.
Research Products Company, Kansas City, Mo. Insecticides. Serial No. 584,466, Dec. 26. Class 6.
Roffer, I. M., Sons Company, Inc., New York, N. Y. Women's coats and suits. Serial No. 587,972, Dec. 26. Class 39.
Rotary Lift Company, Memphis, Tenn. Automobile, bus, and truck servicing lifts and parts thereof. Serial No. 539,904, Dec. 26. Class 23.
Rothchild, Lionel G., doing business under the name of Lenel Co., Dallas, Tex. Cologne. Serial No. 587,212, Dec. 26. Class 51.
Royal Hair Pin Corporation, New York, N. Y. Hair clips. Serial No. 598,388, Dec. 26. Class 40.
Rubinstein, Helena, Inc., New York, N. Y. Skin cleanser. Serial No. 570,616, Dec. 26. Class 51.
Raritan National, Wakefield, Va. Community services. Serial No. 591,108, Dec. 26. Class 100.
Russell, A. F., & Co., Inc., Tuckahoe, N. Y. Pharmaceutical preparation. Serial No. 594,662, Dec. 26. Class 18.
Saginaw Furniture Shops, Inc., Chicago, Ill. Extension furniture. Serial No. 594,000, Dec. 26. Class 32.
St. Claire, Rene, Products Co. and The Gintone Laboratories: *See*—
Brog, Victor.
St. Paul & Tacoma Lumber Co., Tacoma, Wash. Laminated composite boards, plywood, and wallboard. Serial No. 580,035, Dec. 26. Class 12.
Salvatore Di Mauro, Hawthorne, N. Y. Spaghetti sauce. Serial No. 592,553, Dec. 26. Class 46.
Schaefer Brass & Mfg. Co.: *See*—
Schaefer, Wilbert F.
Schaefer, Wilbert F., doing business as Schaefer Brass & Mfg. Co., St. Louis, Mo. Ventilation and exhaust fans. Serial No. 592,389, Dec. 26. Class 34.
Schape Manufacturing Company, The, Baltimore, Md., now by change of name Dryomatic Corporation of America. Apparatus for extracting moisture. Serial No. 554,818, Dec. 26. Class 34.
Schlage Lock Company, San Francisco, Calif. Lock sets. Serial No. 555,201, Dec. 26. Class 25.
Schneider Silk Mills Inc., New York, N. Y. Piece goods. Serial No. 580,681, Dec. 26. Class 42.
Schneider Silk Mills Inc., New York, N. Y. Piece goods. Serial No. 580,683, Dec. 26. Class 42.
Schreiber, L. D., & Co., Inc., Chicago, Ill., and Green Bay, Wis. Cheese. Serial No. 549,670, Dec. 26. Class 46.
Schwab, Armand, & Co., Inc., New York, N. Y. Millinery braids. Serial No. 602,472, Dec. 26. Class 40.
Seller, Karl, & Sons, Inc., Philadelphia, Pa. Liverwurst, lunch roll, olive loaf, etc. Serial Nos. 552,810–11, Dec. 26. Class 46.
Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Prepared advertising. Serial No. 584,840, Dec. 26. Class 38.
Sheffield Corporation, The, Dayton, Ohio. Wheel dressers. Serial No. 504,298, Dec. 26. Class 23.
Shielana Limited, London, England. Woolen and worsted piece goods. Serial No. 585,606, Dec. 26. Class 42.
Shirley Corporation, Indianapolis, Ind. Kitchen cabinets. Serial No. 593,087, Dec. 26. Class 32.
Shirtcraft Company, Inc., The, New York, N. Y. Men's, boys', and ladies' jackets. Serial No. 592,231, Dec. 26. Class 39.
Sight Feed Generator Company, The, West Alexandria, Ohio. Welding fluxes. Serial No. 508,747, Dec. 26. Class 6.
Silbe H. O.: *See*—
Sliten, Fritz, Dr.
Silk-O-Lite Mfg. Corp., New York, N. Y. Fabric lampshades. Serial No. 551,482, Dec. 26. Class 21.
Sliten, Fritz, Dr., doing business as Silbe H. O., Amsterdam, Holland. Medicinal preparation for intravenous therapy of acute inflammatory processes. Serial No. 583,298, Dec. 26. Class 18.
Sire, Inc., Chicago, Ill. Men's belts and suspenders. Serial No. 592,725, Dec. 26. Class 39.
Skinner & Pelton, Inc., Chicago, Ill. Earphone and volume control attachments. Serial No. 595,421, Dec. 26. Class 21.
Smith, Benjamin D., Jr., Sanford, N. C. Insecticides. Serial No. 597,932, Dec. 26. Class 6.
Smith Brothers Manufacturing Co., Carthage, Mo. Denim garments. Serial No. 592,580, Dec. 26. Class 39.
Solomon, A., New Orleans, La. Men's, young men's, and boys' trousers, outer-wear suits, and outer-wear coats, etc. Serial No. 558,323, Dec. 26. Class 39.
Sommer & Kaufmann, San Francisco, Calif. Boys' shoes. Serial No. 585,032, Dec. 26. Class 39.
Spencer, Caroline V., doing business under the name Spencer Laboratories, Shelby, Mont. Medicinal preparation. Serial No. 594,861, Dec. 26. Class 18.
Spencer Laboratories: *See*—
Spencer, Caroline V.
Steel Pharmaceutical Co. Inc., New York, N. Y. Sedative tablets. Serial No. 595,011, Dec. 26. Class 18.
Stereocrafters, Inc., Milwaukee, Wis. Cameras. Serial No. 597,709, Dec. 26. Class 26.
Sterling Belt Co., Inc., New York, N. Y. Garment belts. Serial No. 587,764, Dec. 26. Class 39.
Storch, Max H., New York, N. Y. Silverplated and sterling silver knives, forks, spoons, etc. Serial No. 588,330, Dec. 26. Class 28.

Sunbeam Corporation, Chicago, Ill. Portable electric radiant heaters. Serial No. 595,690, Dec. 26. Class 21.
Supergrate Open Steel Flooring Co.: *See*—
Bostrom, Gustav J.
Superior Electric Company, The, Bristol, Conn. Voltage regulators. Serial No. 597,553, Dec. 26. Class 21.
Talon, Inc., Meadville, Pa. Crocheting and knitting yarns. Serial No. 584,089, Dec. 26. Class 43.
Tappan Stove Company, The, Mansfield, Ohio. Control panels, signalling means, and a cooking chart. Serial No. 550,855, Dec. 26. Class 26.
Taunton Pearl Works, Taunton, Mass. Cuff links, tie clips. Serial No. 595,478, Dec. 26. Class 28.
Taunton Pearl Works, Taunton, Mass. Cuff links, cuff buttons, and shirt studs, etc. Serial No. 595,479, Dec. 26. Class 28.
Techkote Company, The, Inglewood, Calif. Air-entraining chemical agent. Serial No. 570,282, Dec. 26. Class 12.
Tek Hughes, Inc., New York, N. Y. Brushes, comb and mirror sets. Serial No. 597,614, Dec. 26. Class 40.
Tela-Tena Company, Evanston, Ill. Television receiver antennas. Serial No. 595,016, Dec. 26. Class 21.
Temco, Inc., Nashville, Tenn. Clothes dryer. Serial Nos. 600,358–9, Dec. 26. Class 24.
Terrytoons, Inc., New Rochelle, N. Y. Series of motion picture animated cartoons. Serial No. 599,280, Dec. 26. Class 26.
Thermo-Fluf Insulation Company: *See*—
Graham, G. Milo.
Thomson Chemical Company: *See*—
Thomson, R. W.
Thomson, R. W., doing business as Thomson Chemical Company, Lima, Ohio. Detergent laundry compound. Serial No. 589,177, Dec. 26. Class 52.
Thoro'bred Racing Plate Co., Los Angeles, Calif. Horse shoes. Serial No. 592,350, Dec. 26. Class 3.
Tobin Packing Co., Inc., Rochester, and Albany, N. Y. Hams, bacon, bologna sausage and pork sausage. Serial No. 558,971, Dec. 26. Class 46.
Transcontinental & Western Air, Inc., Kansas City, Mo. Air transportation. Serial No. 594,297, Dec. 26. Class 105.
United Conveyor Corporation, Chicago, Ill. Electrically operated control. Serial No. 577,826, Dec. 26. Class 21.
Vascular Pharmaceutical Company, Inc., Roslyn Heights, N. Y. Ethically sold preparation for the treatment of arteriosclerosis. Serial No. 587,514, Dec. 26. Class 18.
Verde, Charles D., doing business as Hairspring Vibrating Co., Union City, N. J. Watch repairing and adjusting. Serial No. 586,575, Dec. 26. Class 103.
Victorson, Gustave P., doing business as Philadelphia Hosiery Company, New York, N. Y. Ladies' hosiery. Serial No. 593,380, Dec. 26. Class 39.
Vincent-McCall Company, The, Kenosha, Wis. Mattresses. Serial No. 594,343, Dec. 26. Class 32.
Vivette Foundations, Inc., New York, N. Y. Girdles and corsets. Serial No. 554,054, Dec. 26. Class 39.
Volf, Christian A., Beverly Hills, Calif. Phonograph records. Serial No. 593,622, Dec. 26. Class 36.
Wagner Electric Corporation, St. Louis, Mo. Hydraulic brake fluid. Serial No. 581,542, Dec. 26. Class 6.
Wagner, Harry A., Hollywood, Calif. Spices, herbs, food seasonings, etc. Serial No. 589,179, Dec. 26. Class 46.
Walburn Equipment Company, Cleveland, Ohio. Prismatic refractors. Serial No. 590,920, Dec. 26. Class 19.
Wander, Dr. A., S. A., Berne, Switzerland. Medicinal preparation. Serial No. 594,820, Dec. 26. Class 18.
Warrell, Charles, Ruislip, Middlesex, England. Books. Serial No. 586,506, Dec. 26. Class 38.
Weave Masters: *See*—
Weave Masters Incorporated.
Weave Masters Incorporated, Cincinnati, Ohio, assignee of Weave Masters. Reweaving and restoration of damaged or irregular fabrics. Serial No. 527,396, Dec. 26. Class 103.
Weber Dental Manufacturing Co., The, Canton, Ohio. Dental engines, dental X-ray units, dental units, etc. Serial No. 537,110, Dec. 26. Class 44.
Weber Showcase & Fixture Co., Inc., Los Angeles, Calif. Doors. Serial No. 536,323, Dec. 26. Class 12.
Webster, Warren, & Company, Camden, N. J. Heating apparatus. Serial No. 525,723, Dec. 26. Class 34.
Weiks, John E., doing business as Wix Cooler Company, Seattle, Wash. Marine engine coolers or heat exchange units. Serial No. 538,479, Dec. 26. Class 34.
Weller, E. E., Co., Providence, R. I. Shoe ornaments. Serial No. 580,218, Dec. 26. Class 40.
Wells Lamont Corporation, Chicago, Ill. Gloves. Serial No. 568,139, Dec. 26. Class 39.
West, Joseph L., Columbus, Ohio. Photographic prints, drawings, and sketches. Serial No. 512,468, Dec. 26. Class 38.
Whitney Blake Company, The, Hamden, Conn. Insulated electric wire. Serial No. 597,496, Dec. 26. Class 21.
Williams, Charles R., Huntsville, Ala. Advertising and entertainment services. Serial No. 535,776, Dec. 26. Class 101.
Wise, J. F., Mecca, Calif. Fresh dates. Serial No. 588,819, Dec. 26. Class 46.
Wix Cooler Company: *See*—
Weiks, John E.
Wood Chemical Company: *See*—
Wood, Frank P.
Wood, Frank P., doing business as Wood Chemical Company, Jacksonville, Fla. Preparation for the relief of colds. Serial No. 592,532, Dec. 26. Class 18.
Woolworth, F. W., Co., New York, N. Y. Common and safety pins. Serial No. 586,215, Dec. 26. Class 40.
Worldsbest Industries, Inc., Cudahy, Wis. Curtain stretchers. Serial No. 600,205, Dec. 26. Class 24.
Yancey, Clement L., Jr., doing business as Greensboro Twine Company, Greensboro, N. C. Cotton twine. Serial No. 592,966, Dec. 26. Class 7.
Yoder Instruments: *See*—
Yoder, Leonard G.
Yoder, Leonard G., doing business under the name and style of Yoder Instruments, East Palestine, Ohio. Pencils. Serial No. 593,200, Dec. 26. Class 37.
Zimmerman Associates, Guilford College, N. C. Textile chemical specialty. Serial No. 584,562, Dec. 26. Class 6.
Zonite Products Corporation, New York, N. Y. Disposable diaper pads. Serial No. 578,431, Dec. 26. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Sterile disposable venoclysis sets. 535,146, Dec. 26; Serial No. 534,857, published Jan. 13, 1948. Class 44.
Acme Packing Company, San Francisco, Calif. Canned dog and cat food. 535,354, Dec. 26; Serial No. 583,137, published Aug. 8, 1950. Class 46.
Ad-A-Day Company: *See*—
Cross, Carroll N.
Agricultural Laboratories, Inc., Columbus, Ohio. Plant food. 535,283 Dec. 26; Serial No. 572,543, published Oct. 3, 1950. Class 10.
Alaska Sleeping Bag Company: *See*—
Weiss, Jerome H.
Alcor Manufacturing Company, Chicago, Ill. Electrical goods. 535,140, Dec. 26; Serial No. 530,049, published Oct. 10, 1950. Class 21.
Aldens, Inc., Chicago, Ill. Children's or sidewalk bicycles, and children's scooters, etc. 535,245, Dec. 26; Serial No. 564,421, published Sept. 12, 1950. Class 22.
Aldens Inc., Chicago, Ill. Children's wearing apparel. 535,404, Dec. 26; Serial No. 586,453, published Sept. 12, 1950. Class 39.
Al-Vern Corporation, Jerome, Mich. Toy scales. 535,243, Dec. 26; Serial No 564,179, published Sept. 19, 1950. Class 22.
American Binder Company, Inc., The, New York, N. Y. Binders. 535,359, Dec. 26; Serial No. 583,633, published Oct. 3, 1950. Class 37.
American Feather Products, Chicago, Ill. Comforters. 535,204, Dec. 26; Serial No. 556,050, published Sept. 19, 1950. Class 42.
American Lace Paper Company, Milwaukee, Wis. Paper napkins. 535,180, Dec. 26; Serial No. 545,933, published Aug. 22, 1950. Class 37.
American Tobacco Company, The, New York, N. Y. Matches. 535,446, Dec. 26; Serial No. 589,187, published Sept. 26, 1950. Class 9.
American Writing Paper Corporation, Holyoke, Mass. Index-bristol paper. 535,154, Dec. 26; Serial No. 537,395, published Sept 26, 1950. Class 37.
Ames Safety Envelope Company, Somerville, Mass. Mailing envelopes, file folders, and file pockets. 535,167, Dec. 26; Serial No. 542,066, published Sept. 26, 1950. Class 37.
Anchor Hocking Glass Corporation, Lancaster, Ohio. Ash trays. 535,443, Dec. 26; Serial No. 589,000, published Oct. 10, 1950. Class 8.
Andrews, H. P., Paper Company, New York, N. Y. Paper, and mailing and correspondence envelopes. 535,185, Dec. 26; Serial No. 548,710, published Sept. 12, 1950. Class 37.
Apex Refrigerator Sales Corp., New York, N. Y. Refrigerators. 535,362, Dec. 26; Serial No. 583,979, published Sept. 12, 1950. Class 31.
Archer-Daniels-Midland Company, Minneapolis, Minn. Modified fatty oils and blends of modified fatty oils. 535,224, Dec. 26; Serial No. 560,311, published Sept. 19, 1950. Class 6.
Archer Rubber Company, Milford, Mass. Rubber baby pants, rubber aprons and bibs, and rubber and rubberized rain garments. 535,191, Dec. 26; Serial No. 551,676, published Aug. 29, 1950. Class 39.
Archer Rubber Company, Milford, Mass. Rubber baby pants, rubber aprons, and bibs, all rubber and rubberized rain garments. 535,192, Dec. 26; Serial No. 551,678, published Aug. 29, 1950. Class 39.
Armour and Company, Chicago, Ill. Estrogenic hormone compositions. 535,138, Dec. 26; Serial No. 527,776, published Mar. 9, 1948. Class 18.

Armour and Company, Chicago, Ill. Detergent. 535,297, Dec. 26; Serial No. 574,807, published Sept. 12, 1950. Class 52.

Arro Expansion Bolt Company, Marion, Ohio. Expansion shields, toggle bolts, screw anchors, etc. 535,169, Dec. 26; Serial No. 542,430, published Sept. 19, 1950. Class 13.

Arrow Manufacturing Company, Kansas City, Mo. Laundry pail. 535,387, Dec. 26; Serial No. 585,823, published Oct. 10, 1950. Class 24.

Associated Lighting Service, San Francisco, Calif. Electrical apparatus. 535,361, Dec. 26; Serial No. 583,906, published Oct. 10, 1950. Class 21.

Atkins & Durbow, Inc., New York, N. Y. Peat moss. 535,237–8, Dec. 26; Serial Nos. 563,098–9, published Oct. 3, 1950. Class 10.

Atlas Chemical Company, San Francisco, Calif. Fertilizer. 535,459, Dec. 26; Serial No. 591,342, published Sept. 26, 1950. Class 10.

AVCO Manufacturing Corporation, Cincinnati, Ohio. Miniature farm implements. 535,366, Dec. 26; Serial No. 584,382, published Sept. 12, 1950. Class 22.

Bakery and Confectionery Workers' International Union of America, Chicago, Ill. All bakery goods; confectionery products; and paste products. 535,473, Dec. 26; Serial No. 536,036, published Aug. 15, 1950. Class 46.

Barr Company, The, Washington, D. C. Plastic film in rolls or pieces, etc. 535,262, Dec. 26; Serial No. 569,589, published Sept. 19, 1950. Class 42.

Bay State Crabmeat Co., Boston, Mass. Canned crabmeat. 535,386, Dec. 26; Serial No. 572,825, published Aug. 15, 1950. Class 46.

Beacon Manufacturing Company, Swannanoa, N. C. Crib blankets. 535,232, Dec. 26; Serial No. 561,796, published Sept 19, 1950. Class 42.

Beard, Glen A., doing business as Glen A. Beard Popcorn Company, Plainview, Tex. Popcorn. 535,316, Dec. 26; Serial No. 579,164, published Aug. 15, 1950. Class 46.

Beard, Glen A., Popcorn Company: *See*—
Beard, Glen A.

Beggs & Cobb, Incorporated, Boston, Mass. Upper leather. 535,332, Dec. 26; Serial No. 581,931, published July 4, 1950. Class 1.

Bellows, R. C., doing business as The Mineral Springs Bottling Company, Humboldt, Iowa. Maltless soft drinks. 535,435, Dec. 26; Serial No. 588,735, published Oct. 10, 1950. Class 45.

Beverage Distributors, Inc., doing business under the name Marlboro Beverage Company, San Francisco, Calif. Non-alcoholic maltless beverages. 535,152, Dec. 26; Serial No. 537,283, published Aug. 15, 1950. Class 45.

Big Top Beverages, Inc., Dallas, Tex. Non-alcoholic maltless beverages. 535,371, Dec. 26; Serial No. 584,891, published Aug. 22, 1950. Class 45.

Boehm Bindery Company, The, Milwaukee, Wis. Book binding. 535,470, Dec. 26; Serial No. 576,740, published Sept. 26, 1950. Class 106.

Bond Electric Corporation, Jersey City, N. J., to Olin Industries Inc., New Haven, Conn. Electric flash lights. 279,344, renewed Jan. 13, 1951. O. G. Dec. 26. Class 21.

Bonner Packing Co., Fresno, Calif. Dried fruits. 535,487, Dec. 26; Serial No. 592,013. Class 46.

Bostrom Manufacturing Company, Milwaukee, Wis. Seat mountings, seat suspensions and seats, etc. 535,483, Dec. 26; Serial No. 583,856. Class 19.

Bostwick Laboratories, Inc., Bridgeport, Conn. Fire extinguishing compositions, insecticides and room deodorants. 535,288, Dec. 26; Serial No. 573,227, published Sept. 19, 1950. Class 6.

Boutross, James J., doing business under the fictitious name and style of Empress Pearl Syndicate, Los Angeles, Calif. Pearl jewelry. 535,258, Dec. 26; Serial No. 567,753, published Oct. 3, 1950. Class 28.

Bowser, Inc., Fort Wayne, Ind. Pressure type filters for clarifying liquids. 535,311, Dec. 26; Serial No. 577,938, published Sept. 19, 1950. Class 31.

Boyd System, Incorporated, The, Princeton, N. J. Central billing and collection service. 535,469, Dec. 26; Serial No. 572,081, published Sept. 26, 1950. Class 101.

Bozeman Canning Company, by Pictsweet Foods, Inc., Mount Vernon, Wash. Canned corn. 406,300, Mar. 21, 1944. Republished Dec. 26. Class 46.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Rendering elastic yarn goods satisfactory for swim suits by special process. 535,471, Dec. 26; Serial No. 585,213, published Sept. 26, 1950. Class 106.

Bridgeport Moulded Products, Inc., Fairfield, Conn. Ice trays. 535,343, Dec. 26; Serial No. 582,596, published Jan. 3, 1950. Class 31.

Bridgeport Moulded Products, Inc., Fairfield, Conn. Ice trays. 535,377, Dec. 26; Serial No. 585,041, published Jan. 3, 1950. Class 31.

Brooks Paper Company, St. Louis, Mo. Prepared stereotype dry matrices. 535,125, Dec. 26; Serial No. 499,763, published Aug. 29, 1950. Class 50.

Brotherhood Corporation, The, New York, N. Y. Wine. 535,298, Dec. 26; Serial No. 574,817, published Sept. 12, 1950. Class 47.

Bruner-Ritter, Inc., New York, N. Y. Bracelets, wrist watch bracelets. 535,339, Dec. 26; Serial No. 582,410, published Oct. 3, 1950. Class 28.

Budrell Packers, Inc., Everett, Mass. Canned minestrone soup. 535,327, Dec. 26; Serial No. 581,316, published Oct. 10, 1950. Class 46.

Butler Brothers, Chicago, Ill., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Cleansing tissue. 535,412, Dec. 26; Serial No. 587,013, published Sept. 5, 1950. Class 37.

California Growers Wineries: *See*—
California Growers Wineries Inc.

California Growers Wineries Inc., Fresno, by California Growers Wineries, Cutler, Calif. Wines. 317,372, Sept. 25, 1934. Republished Dec. 26. Class 47.

California Growers Wineries Inc., Fresno, by California Growers Wineries, Cutler, Calif. Wine. 335,567, June 9, 1936. Republished Dec. 26. Class 47.

California Growers Wineries, Inc., Fresno, by California Growers Wineries, Cutler, Calif. Wine. 337,084, July 28, 1936. Republished Dec. 26. Class 47.

California Growers Wineries, Inc., Fresno, by California Growers Wineries, Cutler, Calif. Brandy. 359,444, Aug. 23, 1938. Republished Dec. 26. Class 49.

California Vegetable Growers, Guadalupe, Calif. Fresh Growers Wineries, Cutler, Calif. Wines. 359,652, Aug. 30, 1938. Republished Dec. 26. Class 47.

California Growers Wineries, Inc., Fresno, by California vegetables. 535,181, Dec. 26; Serial No. 546,647, published Aug. 1, 1950. Class 46.

California Wine Association: *See*—
Fruit Industries, Ltd.

Calissi, Paul C., doing business as Calpa Products Company, Philadelphia, Pa. Electric floor and table lamps. 535,289, Dec. 26; Serial No. 573,471, published Oct. 10, 1950. Class 21.

Calpa Products Company: *See*—
Calissi, Paul C.

Calvert Distilling Co., The: *See*—
Maryland Distillery, Inc.

Canadian Food Products Limited, Toronto, Ontario, Canada. Non-alcoholic, uncarbonated and maltless beverage. 535,255, Dec. 26; Serial No. 566,378, published Sept. 26, 1950. Class 45.

Car Washing Supplies Co.: *See*—
Ingram, Doyle.

Carmi-Feature Underwear, Incorporated, Carmi, Ill. Collars, negligee and dress shirts, etc. 535,162, Dec. 26; Serial No. 540,520, published Sept. 12, 1950. Class 39.

Carnegie, Hattie, Inc., New York, N. Y. Earrings. 535,405, Dec. 26; Serial No. 586,467, published Oct. 3, 1950. Class 28.

Carpenter Cook Company, Menominee, Mich. Canned fruits, canned vegetables, canned fish, etc. 535,299, Dec. 26; Serial No. 575,886, published Aug. 15, 1950. Class 46.

Carter, Victor M., doing business as Vimcar Sales Company, Los Angeles, Calif. Locks. 535,260, Dec. 26; Serial No. 568,238, published Dec. 20, 1949. Class 25.

Carter-Waters Corp., The, Kansas City, Mo. Welded wire reinforcements. 535,480, Dec. 26; Serial No. 565,234. Class 12.

Celanese Corporation of America, New York, N. Y. Yarns or threads. 280,068, renewed Feb. 10, 1951. O. G. Dec. 26. Class 43.

Celanese Corporation of America, New York, N. Y. Yarns or threads. 280,953, renewed Mar. 3, 1951. O. G. Dec. 26. Class 43.

Celanese Corporation of America, New York, N. Y. Fabrics made wholly or partially of cellulose derivatives. 280,954, renewed Mar. 3, 1951. O. G. Dec. 26. Class 42.

Chain Belt Company, Milwaukee, Wis. Liquid pumps. 278,177, Dec. 9, 1930. Amended. O. G. Dec. 26. Class 23.

Chalet Swiss Watch & Jewelry Company, New York, N. Y. Watches. 535,304, Dec. 26; Serial No. 577,039, published Oct. 3, 1950. Class 27.

Chase Brass & Copper Co. Incorporated, to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Closet screws, sink plugs, plumbing traps, etc. 280,870, renewed Mar. 3, 1950. O. G. Dec. 26. Class 13.

Chemtox Company, Ltd., Honolulu, T. H. Termite solutions and other insecticides. 535,397, Dec. 26; Serial No. 586,235, published Sept. 19, 1950. Class 6.

Ciba Limited, Basle, Switzerland. Cleaning, cleansing, and detergent chemical compounds. 535,325, Dec. 26; Serial No. 580,923, published Sept. 19, 1950. Class 52.

Cinema-Television Limited, Lower Sydenham, London, England. Photo-electric cells, cathode ray tubes, and radio and television receiving and transmitting apparatus. 535,442, Dec. 26; Serial No. 588,995, published Sept. 26, 1950. Class 21.

Clover Lamp Co., Inc., Philadelphia, Pa. Electric floor and table lamps. 535,413, Dec. 26; Serial No. 587,074, published Sept. 26, 1950. Class 21.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 535,259, Dec. 26; Serial No. 568,096, published Sept. 12, 1950. Class 52.

Colorado Milling & Elevator Co., The, Denver, Colo., and elsewhere, doing business as The Salt Lake Flour Mills, Salt Lake City, Utah. Wheat flour. 535,190, Dec. 26; Serial No. 551,242, published Aug. 15, 1950. Class 46.

Colwell Publishing Company, Champaign, Ill. Dentists' record and account book. 535,171, Dec. 26; Serial No. 542,747, published Sept. 26, 1950. Class 37.

Consolidated Cosmetics, Chicago, Ill. Lipstick, face powder, perfume, etc. 535,334, Dec. 26; Serial No. 582,027, published Aug. 1, 1950. Class 51.

Consolidated Equipment Company, Incorporated, Wichita, Kansas. Bakery equipment. 444,369, Dec. 26; Serial No. 513,877, published Sept. 19, 1950. Class 23.

Continental Soap Corporation, Chicago, Ill. Washing machine soap. 535,335, Dec. 26; Serial No. 582,072, published Sept. 12, 1950. Class 52.

Cook Electric Company, Chicago, Ill. Electric switches and electric relay controls. 535,280, Dec. 26; Serial No. 572,486, published Oct. 10, 1950. Class 21.

Cook, F. W., Company, Inc., Evansville, Ind. Beer and ale. 535,422, Dec. 26; Serial No. 588,006, published Oct. 10, 1950. Class 48.

Cooper, Abraham S., New York, N. Y. Note paper. 535,382, Dec. 26; Serial No. 585,569, published Sept. 19, 1950. Class 37.

Cooper's, Incorporated, Kenosha, Wis. Shirts. 535,341, Dec. 26; Serial No. 582,520, published Sept. 5, 1950. Class 39.

Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Automatic control means for electric power supply units. 535,364, Dec. 26; Serial No. 584,321, published Sept. 26, 1950. Class 21.

Cory, Albert N., Inc., New York, N. Y. Olive oil. 444,373, Dec. 26; Serial No. 519,571, published Sept. 6, 1949. Class 46.

Cory Corporation, Chicago, Ill. Electrically operated dish washers. 535,454. Dec. 26; Serial No. 589,772, published Sept. 26, 1950. Class 21.

Costello-Mausure, Inc., Detroit, Mich. Air purifying, deodorizing, medicating or perfuming cakes or tablets. 535,419, Dec. 26; Serial No. 587,839, published Sept. 26, 1950. Class 6.

Cramer Chemical Company, The, Gardner, Kans. Liquid disinfectant preparation. 535,365, Dec. 26; Serial No. 584,223, published Sept. 12, 1950. Class 18.

Crest Specialties, Chicago, Ill. Combination toy savings bank and action toy. 535,372, Dec. 26; Serial No. 584,895, published Sept. 19, 1950. Class 22.

Crompton Company, Crompton, R. I. Corduroy fabrics. 535,172, Dec. 26; Serial No. 543,107, published Sept. 19, 1950. Class 42.

Cross, Carroll N., doing business as Ad-A-Day Company, Taunton, Mass. Desk calendars. 535,275–6, Dec. 26; Serial Nos. 571,793–4, published Sept. 26, 1950. Class 37.

Crown Willamette Paper Company: *See*—
Crown Zellerbach Corporation.

Crown Zellerbach Corporation, doing business as Crown Willamette Paper Company, San Francisco, Calif. Paper towels. 535,137, Dec. 26; Serial No. 527,128, published Aug. 22, 1950. Class 37.

Crown Zellerbach Corporation, also doing business as National Paper Products Company, San Francisco, Calif. Paper towels. 535,346, Dec. 26; Serial No. 582,723, published Sept. 5, 1950. Class 37.

Cudahy Packing Company, The, Chicago, Ill. Cleaner. 535,213, Dec. 26; Serial No. 558,364, published Sept. 12, 1950. Class 52.

Curtis Paper Company, Newark, Del. Text and cover papers. 535,150, Dec. 26; Serial No. 536,502, published Sept. 5, 1950. Class 37.

Dage, Inc., Cincinnati, Ohio. Tape dispensers. 535,233, Dec. 26; Serial No. 561,808, published Aug. 29, 1950. Class 23.

Davol Rubber Company, Providence, R. I. Atomizers, breast-pipes, breast-pumps, etc. 535,127, Dec. 26; Serial No. 502,063, published Sept. 19, 1950. Class 44.

Deerfield Packing Corporation, Upper Deerfield, N. J., now by change of name, Seabrook Farms Co. Frozen applesauce, frozen berries, frozen fruits, etc. 535,242, Dec. 26; Serial No. 563,990, published July 18, 1950. Class 46.

De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif. Brandy. 535,342, Dec. 26; Serial No. 582,548, published Sept. 12, 1950. Class 49.

Diamond Alkali Company, Cleveland, Ohio. Inorganic detergent. 535,234, Dec. 26; Serial No. 561,892, published Sept. 19, 1950. Class 52.

Diamond Alkali Company, Cleveland, Ohio. Non-saponaceous detergent material. 535,235, Dec. 26; Serial No. 561,895, published Sept. 12, 1950. Class 52.

Diamond Match Company, The, New York, N. Y. Toilet tissue and paper towels. 535,427, Dec. 26; Serial No. 588,281, published Sept. 26, 1950. Class 37.

Diamond Match Company, The, New York, N. Y. Paper napkins, paper towels, waxed paper and toilet tissue. 535,452, Dec. 26; Serial No. 589,651, published Sept. 26, 1950. Class 37.

Diamond Power Specialty Corporation, Detroit, Mich., to Diamond Power Specialty Corporation, Lancaster, Ohio. Gauge glasses, water columns, and water gauges. 279,300, renewed Jan. 13, 1951. O. G. Dec. 26. Class 26.

Dimple Tie Corporation, New York, N. Y. Men's, women's and children's neckties. 535,388, Dec. 26; Serial No. 585,835, published Sept. 5, 1950. Class 39.

Dobbs & Co., New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Canes, umbrellas, etc. 279,378, renewed Jan. 13, 1951. O. G. Dec. 26. Class 41.

Dobbs & Co., New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Hats and caps; leather gloves, fabric gloves, etc. 279,576, renewed Jan. 20, 1951. O. G. Dec. 26. Class 39.

Dobbs & Co., New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Hats for women. 280,522, renewed Feb. 17, 1951. O. G. Dec. 26. Class 39.

Dorr Company, The, New York, N. Y. Apparatus for the treatment of solids suspended in liquids. 535,170, Dec. 26. Serial No. 542,739, published Sept. 5, 1950. Class 23.

Doughboy Industries, Inc., New Richmond, Wis. Plastic toys. 535,230, Dec. 26; Serial No. 561,450, published Sept. 12, 1950. Class 22.

Drake Bakeries Incorporated, Brooklyn, N. Y. Cake. 535,134, Dec. 26; Serial No. 520,799, published Aug. 15, 1950. Class 46.

Drake, L. F., Mercedes, Tex. Canned grapefruit juice. 535,160, Dec. 26; Serial No. 539,858, published Aug. 8, 1950. Class 46.

Drug Laboratories, Inc.: *See*—
United American Company.

Du Benay Undergarment, Inc., New York, N. Y. Ladies' and misses' slips and nightgowns. 535,147, Dec. 26; Serial No. 534,884, published Dec. 21, 1948. Class 39.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Disinfectant. 276,095, renewed Oct. 7, 1950. O. G. Dec. 26. Class 6.

Du Pont, E. I., de Nemours, and Company, Wilmington, Del. Dyes and dyestuffs. 277,171, renewed Nov. 11, 1950. O. G. Dec. 26. Class 6.

Du Pont, E. I., de Nemours, and Company, Wilmington, Del. Dyes and dyestuffs. 277,397, renewed Nov. 11, 1950. O. G. Dec. 26. Class 6.

Dura-Bond Bearing Company, Palo Alto, Calif. Cam shaft bearings. 535,324, Dec. 26; Serial No. 580,355, published Aug. 29, 1950. Class 23.

Duro-Test Corporation, North Bergen, N. J., and elsewhere in the United States. Incandescent and fluorescent lamps. 535,209, Dec. 26; Serial No. 557,736, published Sept. 26, 1950. Class 21.

Easy Washing Machine Corporation, Syracuse, N. Y. Washing machines, driers, ironers, etc. 535,420, Dec. 26; Serial No. 587,856, published Oct. 10, 1950. Class 24.

Eclipse Lawn Mower Co., The, Prophetstown, Ill. Handles for hand and power mowers. 535,257, Dec. 26; Serial No. 567,112, published Aug. 22, 1950. Class 23.

Ehmling, A. & A. W., Upper Darby, Pa. Printed stationery. 535,211, Dec. 26; Serial No. 558,020, published Sept. 26, 1950. Class 37.

Elgin National Watch Company, Chicago, and Elgin, Ill., to Elgin National Watch Company, Elgin, Ill. Watches, watch movements, and watchcases. 279,198, renewed Jan. 13, 1951. O. G. Dec. 26. Class 27.

Elgin National Watch Company, Chicago and Elgin, Ill., to Elgin National Watch Company, Elgin, Ill. Watches, watch movements, and watchcases. 279,203–13, renewed Jan. 13, 1951. O. G. Dec. 26. Class 27.

Elgin National Watch Company, Chicago and Elgin, Ill., to Elgin National Watch Company, Elgin, Ill. Watches, watch movements, and watchcases. 279,254–5, renewed Jan. 13, 1951. O. G. Dec. 26. Class 27.

Ely & Walker Dry Goods Company, St. Louis, Mo. Textile piece goods. 535,168, Dec. 26; Serial No. 542,207, published Sept. 19, 1950. Class 42.

Emmons Loom Harness Co., Lawrence, Mass. Heddle frames, heddles, twine harnesses, etc. 535,149, Dec. 26; Serial No. 535,836, published Aug. 22, 1950. Class 23.

Empress Pearl Syndicate: *See*—
Boutross, James J.

Enjay Company, Inc.: *See*—
Standard Alcohol Company.

Ennis Tag & Salesbook Company, Ennis, Tex. Various paper office supplies. 535,229, Dec. 26; Serial No. 561,302, published Sept. 5, 1950. Class 37.

Essex Wire Corporation, Detroit, Mich. Insulated electric wires and cables. 535,200, Dec. 26; Serial No. 555,090, published Sept. 26, 1950. Class 21.

Ewart, William, & Son Limited, Belfast, Northern Ireland. Piece goods, table cloths, table napkins, etc. 535,302, Dec. 26; Serial No. 576,322, published Sept. 19, 1950. Class 42.

Fas-Cash System, Inc., Detroit, Mich. Paper bands. 444,370, Dec. 26; Serial No. 514,335, published Sept. 5, 1950. Class 37.

Feinstein, P., & Sons, to P. Feinstein & Sons, New York, N. Y. Men's clothes. 268,390, renewed Mar. 11, 1950. O. G. Dec. 26. Class 39.

Feinstein, P., & Sons, to P. Feinstein & Sons, New York, N. Y. Men's clothes. 270,186–7, renewed Apr. 29, 1950 O. G. Dec. 26. Class 39.

Feinstein, P., & Sons, to P. Feinstein & Sons, New York, N. Y. Men's clothes. 276,261, renewed Oct. 14, 1950. O. G. Dec. 26. Class 39.

First Spice Mixing Company, Inc., New York, N. Y. Highly albuminous non-fat dried milk solids. 535,312, Dec. 26; Serial No. 578,579, published Aug. 8, 1950. Class 46.

Flavorex Company: *See*—
Sachs, Harry.

Florida Greens Corporation, Leesburg, to Florida Greens Corporation, Oklahumpka, Fla. Natural asparagus plumosus sprays and prepared natural plumosus sprays. 275,117, renewed Sept. 16, 1950. O. G. Dec. 26. Class 1.

Forsman, C. H., Company, New York, N. Y. Fancy printed and embossed papers, paper box covers, and paper wraps. 535,136, Dec. 26; Serial No. 523,464, published Sept. 12, 1950. Class 37.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 274,900, renewed Sept. 9, 1950. O. G. Dec. 26. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Fort Howard Paper Company, Green Bay, Wis. Paper napkins. 535,307, Dec. 26; Serial No. 577,428, published Oct. 3, 1950. Class 37.

Freedom-Valvoline Oil Company, Freedom, Pa. Petroleum or mineral jelly. 535,269, Dec. 26; Serial No. 571,023, published Sept. 12, 1950. Class 6.

Fruit Industries, Ltd., doing business as California Wine Association, San Francisco, Calif. Wines. 535,193, Dec. 26; Serial No. 552,050, published Sept. 12, 1950. Class 47.

Fruit Industries, Ltd., San Francisco, Calif. Brandy. 535,196, Dec. 26; Serial No. 553,095, published Sept. 26, 1950. Class 49.

Furst-McNess Company, Freeport, Ill. Spices. 535,135, Dec. 26; Serial No. 522,766, published Aug. 8, 1950. Class 46.

G. M. Co Manufacturing Inc., Long Island City, N. Y. Combination bar utensil. 535,457, Dec. 26; Serial No. 590,975, published Aug. 22, 1950. Class 23.

Galvin Manufacturing Corporation, to Motorola, Inc., Chicago, Ill. Radio receiving sets and parts thereof. 275,837, renewed Sept. 30, 1950. O. G. Dec. 26. Class 21.

Gamble-Skogmo, Inc., Minneapolis, Minn. Mechanically operated agricultural implements. 535,358, Dec. 26; Serial No. 583,422, published Sept. 12, 1950. Class 23.

Gamble-Skogmo, Inc., Minneapolis, Minn. Radio receiving sets, radio tubes, and electric vacuum cleaners. 535,396, Dec. 26; Serial No. 586,225, published Sept. 26, 1950. Class 21.

Gardeneer, Inc., Minneapolis, Minn. Engine-powered tractors and cultivators. 444,374, Dec. 26; Serial No. 522,228, published Nov. 8, 1949. Class 23.

Gar-Mar Company, The, Dallas, Tex. Amusement devices. 535,277, Dec. 26; Serial No. 571,857, published Sept. 19, 1950. Class 22.

Garner, H. H.: *See*—
Vortex Manufacturing Company.

Gasberg, Harry A., Los Angeles, Calif. Chewing gum. 444,372, Dec. 26; Serial No. 518,398, published Aug. 15, 1950. Class 46.

Gates, Miriam, Incorporated, Buffalo, N. Y. Brassières. 535,370, Dec. 26; Serial No. 584,616, published Oct. 10, 1950. Class 39.

Gaw-O'Hara Envelope Co., Chicago, Ill. Mailing envelopes and pocket labels. 535,221, Dec. 26; Serial No. 559,472, published Oct. 3, 1950. Class 37.

Geeting & Fromm, Inc., Chicago, Ill. Scotch whiskey. 535,355, Dec. 26; Serial No. 583,258, published Sept. 12, 1950. Class 49.

Gelgy Company, Inc., New York, N. Y. Mixtures of tar, asphalt, pitch, etc. 278,390, renewed Dec. 16, 1950. O. G. Dec. 26. Class 12.

Gettelman, A., Brewing Company, Milwaukee, Wis. Beer. 535,161, Dec. 26; Serial No. 540,186, published Sept. 19, 1950. Class 48.

Gibbs, Ruth, Inc., Flemington, N. J. Dressed dolls. 535,226, Dec. 26; Serial No. 560,692, published Sept. 19, 1950. Class 22.

Gibson, George M., Bellevue, Iowa. Domestic clothes washing machines, clothes ironers, and mechanical clothes driers. 535,261, Dec. 26; Serial No. 569,151, published Oct. 10, 1950. Class 24.

Gilbert & Barker Manufacturing Company, West Springfield, Mass. Air compressors. 535,344, Dec. 26; Serial No. 582,613, published Sept. 12, 1950. Class 23.

Globe Milker Company, Des Moines, Iowa. Milk cooler. 535,431, Dec. 26; Serial No. 588,576, published Sept. 19, 1950. Class 31.

Goggin, J. A., Candy Company, The: *See*—
Goggin, Jamie A.

Goggin, Jamie A., doing business as The J. A. Goggin Candy Company, Stillwater, Minn. Candy. 535,379, Dec. 26; Serial No. 585,224, published July 18, 1950. Class 46.

Golden State Company, Ltd., San Francisco, Calif. Butter and ice cream. 535,330, Dec. 26; Serial No. 581,808, published Aug. 8, 1950. Class 46.

Goldsmith Bros., New York, N. Y. Duplicating, mimeographing, and similar machines. 535,462, Dec. 26; Serial No. 597,271, published Sept. 19, 1950. Class 23.

Goldsmith, Stanley H., Inc., Philadelphia, Pa. Fabrics of silk, wool, cotton, etc. 535,267, Dec. 26; Serial No. 570,848, published Sept. 19, 1950. Class 42.

Gonzáles, Henry, doing business as Paulsom Candies, Woodhaven, N. Y. Candy. 535,291, Dec. 26; Serial No. 574,359, published Aug. 15, 1950. Class 46.

Good Luck Glove Company, Carbondale, Ill. Ladies' cotton work gloves. 535,461, Dec. 26; Serial No. 592,996, published Oct. 10, 1950. Class 39.

Granite Looms, Inc., Fall River, Mass. Dish cloths. 535,321, Dec. 26; Serial No. 580,060, published Sept. 19, 1950. Class 42.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Canned salmon. 279,558–9, renewed Jan. 20, 1951. O. G. Dec. 26. Class 46.

Greenwood Mills, Inc., New York, N. Y. Rayon gabardine piece goods. 535,319, Dec. 26; Serial No. 579,929, published Sept. 19, 1950. Class 42.

Grenald, Ben Z.: *See*—
Pepper-Grenald Labs.

Griffin and Busch, Mendota, Calif. Fresh melons. 535,207, Dec. 26; Serial No. 557,130, published Aug. 8, 1950. Class 46.

Grocery Store Products Co., New York, N. Y. Fertilizer. 535,429, Dec. 26; Serial No. 588,487, published Oct. 3, 1950. Class 10.

Groveton Papers Company, Groveton, N. H. Bond paper. 535,249–50, Dec. 26; Serial Nos. 565,620–1, published Sept. 5, 1950. Class 37.

Haase, Wilbert W., Co., Forest Park, Ill. Burial vaults. 533,495, Nov. 14, 1950. Corrected. O. G. Dec. 26. Class 2.

Hamilton Autographic Register Co., The, Hamilton, Ohio. Partially printed stationery. 535,182, Dec. 26; Serial No. 547,380, published Sept. 5, 1950. Class 37.

Hammond Instrument Company, Chicago, Ill. Electric clocks. 535,455, Dec. 26; Serial No. 590,156, published Oct. 3, 1950. Class 27.

Hardy, James G., & Co., Inc., New York, N. Y. Table cloths, napkins, runners, etc. 535,155, Dec. 26; Serial No. 537,586, published Sept. 19, 1950. Class 42.

Harrington & Richardson Arms Company, Worcester, Mass. Revolvers, pistols, rifles, and shotguns. 535,317, Dec. 26; Serial No. 579,370, published Sept. 19, 1950. Class 9.

Hat Corporation of America: *See*—
Dobbs & Co.

Heinemann Electric Company, Trenton, N. J. Electric cut outs, etc. 535,231, Dec. 26; Serial No. 561,463, published Sept. 26, 1950. Class 21.

Heinn Company, The, Milwaukee, Wis. Blank and partially printed leaflets for loose leaf binders, order pad covers, etc. 535,198, Dec. 26; Serial No. 553,700, published Sept. 26, 1950. Class 37.

Hemmingsen, Alfred C., doing business as Hemmingsen Drug Store, Marshall, Mich. Medicinal compound. 535,206, Dec. 26; Serial No. 556,337, published Mar. 21, 1950. Class 18.

Hemmingsen Drug Store: *See*—
Hemmingsen, Alfred C.

High Standard Manufacturing Corporation, The, Hamden, Conn. Pistols and parts therefor. 535,463, Dec. 26; Serial No. 600,246, published Sept. 12, 1950. Class 9.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Corrugated paper. 535,308, Dec. 26; Serial No. 577,531, published Oct. 3, 1950. Class 37.

Hirsch, A., Company, doing business as Hirsch & Oppenheimer, Chicago, Ill. Finger rings. 535,394, Dec. 26; Serial No. 586,163, published Oct. 10, 1950. Class 28.

Hirsch & Oppenheimer: *See*—
Hirsch, A., Company.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., to Hoffmann-La Roche Inc., Nutley, N. J. Potassium guiacol-sulfonate. 80,717, re-renewed Jan. 24, 1951. O. G. Dec. 26. Class 18.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., to Hoffmann-La Roche Inc., Nutley, N. J. Product having antiseptical properties. 80,719, re-renewed Jan. 24, 1951. O. G. Dec. 26. Class 18.

Hoffmann-La Roche Inc.: *See*—
Hoffmann-La Roche Chemical Works, The.

Holland-Rantos Company, Inc., New York, N. Y. Kit containing hygienic and prophylactic medical articles. 531,925, Oct. 10, 1950. Corrected. O. G. Dec. 26. Class 44.

Hollingshead, R. M., Corporation, Camden, N. J. Preparations for fire extinguishers; insecticides; disinfectants; etc. 535,296, Dec. 26; Serial No. 574,773, published Sept. 19, 1950. Class 6.

Hooper, Alfred, Dorset, Vt. Educational toy. 535,313, Dec. 26; Serial No. 578,594, published Sept. 12, 1950. Class 22.

Horn, Emil C., Milwaukee, Wis. Soap and detergent. 535,314, Dec. 26; Serial No. 579,101, published Sept. 19, 1950. Class 52.

Howell Electric Motors Company, Howell, Mich. Electric motors. 535,326, Dec. 26; Serial No. 581,131, published Oct. 10, 1950. Class 21.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated compression sprayers. 535,356, Dec. 26; Serial No. 583,265, published Aug. 29, 1950. Class 23.

Hunter Douglas Corporation, New York, N. Y. Pin-up electric wall lamps. 535,393, Dec. 26; Serial No. 586,085, published Oct. 10, 1950. Class 21.

Hurlbut Paper Company, South Lee, Mass. Writing and ledger paper. 535,189, Dec. 26; Serial No. 551,177, published Sept. 12, 1950. Class 37.

Imperial Glass Corporation, Bellaire, Ohio. Ash trays. 535,451, Dec. 26; Serial No. 589,576, published Sept. 19, 1950. Class 8.

Industrial Paint Manufacturing Company, Birmingham, Ala. Liquid preservative. 535,478, Dec. 26; Serial No. 565,055. Class 6.

Ingenue, Inc., assignor to Ernest Steiner, New York, N. Y. Costume jewelry. 444,368, Dec. 26; Serial No. 511,222, published Oct. 3, 1950. Class 28.

Ingram, Doyle, doing business as Car Washing Supplies Co., Chicago, Ill. Washing compound. 535,477, Dec. 26; Serial No. 553,778. Class 52.

Ingram, J. G., & Son Limited, London, England. Feeding bottle teats, teething pads, teething soothers, and teething rings, etc. 535,476, Dec. 26; Serial No. 545,854. Class 44.

International Minerals & Chemical Corporation, Chicago, Ill. Food savoring powders. 535,279, Dec. 26; Serial No. 572,248, published Aug. 15, 1950. Class 46.

International Salt Co., Inc., Scranton, Pa. Prepared table salt. 535,270, Dec. 26; Serial No. 571,329, published Aug. 8, 1950. Class 46.

Iowa Canning Company: *See*—
Tendersweet Sales Corporation.

Johnson Fare Box Company, Chicago, Ill. Locking relays and electrical apparatus for operating same. 535,256, Dec. 26; Serial No. 566,942, published Sept. 26, 1950. Class 21.

Johnson & Johnson, New Brunswick, N. J. Fibrous absorbent protective underpads. 535,378, Dec. 26; Serial No. 585,123, published Aug. 15, 1950. Class 44.

Johnson, Leonard, Chicago, Ill. Electric flatiron cord holders. 535,415, Dec. 26; Serial No. 587,440, published Oct. 10, 1950. Class 21.

Jonquet, Albert, Millau (Aveyron), France. Leather gloves. 535,368, Dec. 26; Serial No. 584,457, published Sept. 19, 1950. Class 39.

Julian & Kokenge Company, The, Cincinnati, to The Julian & Kokenge Company, Columbus, Ohio. Men's, women's, and children's shoes. 279,689, renewed Jan. 20, 1951. O. G. Dec. 26. Class 39.

Julian & Kokenge Company, The, Cincinnati, to The Julian & Kokenge Company, Columbus, Ohio. Men's, women's, and children's shoes. 279,695, renewed Jan. 20, 1951. O. G. Dec. 26. Class 39.

Juliana Export and Import Corp., New York, N. Y. Flashlight cases. 535,363, Dec. 26; Serial No. 584,132, published Oct. 3, 1950. Class 21.

Kahn's, S., Sons, Inc., Evansville, Ind. Canned foods, coca, table syrup, etc. 535,284, Dec. 26; Serial No. 572,746, published Aug. 15, 1950. Class 46.

Kaufmann Department Stores: *See*—
May Department Stores Company, The.

Kelco Company, San Diego, Calif. Alginic acid, sodium alginate, ammonium alginate, etc. 277,972, Dec. 2, 1930. Republished Dec. 26, 1950. Classes 6, 18, 46.

Kelly, Henry, Importing & Distributing Co. Inc., New York, N. Y. Apple brandy. 535,176, Dec. 26; Serial No. 545,258, published Aug. 15, 1950. Class 49.

Kelly, Henry, Importing & Distributing Co. Inc., New York, N. Y. Whiskey. 535,177, Dec. 26; Serial No. 545,260, published Aug. 15, 1950. Class 49.

Kendall Company, The, Boston, Mass. Corn, bunion, and callus pads. 535,367, Dec. 26; Serial No. 584,403, published Aug. 15, 1950. Class 44.

King Midas Flour Mills: *See*—
Van Dusen Harrington Co.

Kiwi Polish Company Proprietary Limited, The, Richmond, near Melbourne, Victoria, Australia. Polishing preparations. 535,479, Dec. 26; Serial No. 565,189. Class 4.

Klik Promotions, Inc., New York, N. Y. Cigarette holders. 535,414, Dec. 26; Serial No. 587,269, published Sept. 19, 1950. Class 8.

Knoebel Mercantile Company, Denver, Colo. Canned fruits, canned berries, canned vegetables, etc. 535,195, Dec. 26; Serial No. 552,667, published Aug. 8, 1950. Class 46.

Kohrs Packing Company, Davenport, Iowa, by Oscar Mayer & Co., Inc., Chicago, Ill. Ham, bacon, lard, skinned hams, etc. 124,394–5, Feb. 11, 1919. Republished Dec. 26. Class 46.

Kohrs Packing Company, Davenport, Iowa, by Oscar Mayer & Co., Inc., Chicago, Ill. Cured and smoked clear-plate pork. 126,709, Sept. 30, 1919. Republished Dec. 26. Class 46.

Kohrs Packing Company, Davenport, Iowa, by Oscar Mayer & Co., Inc., Chicago, Ill. Sausage. 202,889, Sept. 8, 1925. Republished Dec. 26. Class 46.

Koolrone Mfg. Co.: *See*—
Rudinger, C. I.

Koppers Company, Inc., Pittsburgh, Pa. Resorcinol-formaldehyde material used as adhesives. 535,293, Dec. 26; Serial No. 574,583, published Aug. 15, 1950. Class 5.

Kores Carbon Paper & Ribbons Mfg. Corporation, New York, N. Y. Writing paper, typewriter paper, stencil sheets, etc. 535,337, Dec. 26; Serial No. 582,230, published Oct. 3, 1950. Class 37.

Kotake Company, Limited, Honolulu, Territory of Hawaii. Sake. 535,449, Dec. 26; Serial No. 589,452, published Sept. 12, 1950. Class 47.

Kuebler Brewing Co., Inc., Easton, Pa. Ale. 535,385, Dec. 26; Serial No. 585,800, published Sept. 26, 1950. Class 48.

Kwikset Locks, Inc., Anaheim, Calif. Locksets and keys therefor. 535,340, Dec. 26; Serial No. 582,486, published Sept. 26, 1950. Class 25.

Landry, W. A.: *See*—
Landry, William A.

Landry, William A., doing business as W. A. Landry, New York, N. Y. Woolen and worsted textile fabrics. 535,323, Dec. 26; Serial No. 580,248, published Sept. 19, 1950. Class 42.

Langley Corporation, San Diego, Calif. Fishing reels. 535,215, Dec. 26; Serial No. 558,657, published Sept. 12, 1950. Class 22.

Lantron, Egbert L., Mesa, Ariz. Gasoline, kerosene, lubricating greases, etc. 535,124, Dec. 26; Serial No. 491,648, published Oct. 3, 1950. Class 15.

Leathercraft Process: *See*—
Lehmann, Kurt, Jr.

Lee, Frank H., Company, The, Danbury, Conn. Men's hats. 535,384, Dec. 26; Serial No. 585,755, published Sept. 5, 1950. Class 39.

Lehmann, Kurt, Jr., doing business as Leathercraft Process, New York, N. Y. Liquid cleanser. 535,218, Dec. 26; Serial No. 558,796, published Mar. 1, 1949. Class 4.

Leigh Chemist, Inc., New York, by Shulton, Inc., Clifton, N. J., and New York, N. Y. Perfumes. 275,470, Sept. 23, 1930. Republished Dec. 26. Class 51.

Lenzner, Sol, Corporation, Buffalo, N. Y. Non-alcoholic maltless carbonated soft drinks. 535,131, Dec. 26; Serial No. 518,052, published Oct. 10, 1950. Class 45.

Leonard Tissue Corp., Cambridge, Mass. Toilet paper. 535,400, Dec. 26; Serial No. 586,291, published Sept. 5, 1950. Class 37.

Les Parfums de Dana, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. 535,318, Dec. 26; Serial No. 579,875, published Aug. 29, 1950. Class 51.

Lewis Engineering and Manufacturing Company, The, Alliance, Ohio. Lawn tools. 535,156, Dec. 26; Serial No. 538,152, published July 4, 1950. Class 23.

Lewis, I., Cigar Manufacturing Company, Newark, N. J. Cigars. 535,174, Dec. 26; Serial No. 543,495, published Sept. 26, 1950. Class 17.

Lewis Knitting Company, Janesville, Wis. Men's underwear. 535,248, Dec. 26; Serial No. 565,192, published Sept. 19, 1950. Class 39.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling trucks. 535,488, Dec. 26; Serial No. 592,571. Class 23.

Lily of France, Inc., New York, N. Y. Girdles. 535,460, Dec. 26; Serial No. 591,424, published Oct. 3, 1950. Class 39.

Lind, William: *See*—
Trippe Barker & Company.

Lind, William, Co.: *See*—
Trippe Barker & Company.

Lindberg Instrument Co., Berkeley, Calif. Electric phonograph pickups. 535,386, Dec. 26; Serial No. 585,801, published Sept. 26, 1950. Class 21.

London & Company, Inc., Elizabeth, N. J. Alcoholic beverage. 535,210, Dec. 26; Serial No. 557,852, published Sept. 12, 1950. Class 49.

Lyons Fertilizer Company, Tampa, Fla. Agricultural fertilizer. 535,406, Dec. 26; Serial No. 586,557, published Oct. 3, 1950. Class 10.

Madera Bonded Wine and Liquor Company, The, doing business as Wine Associates, Baltimore, Md. Wines. 535,432, Dec. 26; Serial No. 588,696, published Sept. 26, 1950. Class 47.

Madison Pharmacal Co.: *See*—
Richason, T. F.

Magee Carpet Company, The, Bloomsburg, Pa. Textile carpets and rugs. 535,133, Dec. 26; Serial No. 519,280, published Sept. 19, 1950. Class 42.

Maggio, Joe, doing business as Joe D. Maggio, Holtville, Calif. Fresh vegetables and fresh melons. 535,139, Dec. 26; Serial No. 529,791, published Jan. 31, 1950. Class 46.

Maggio, Joe D.: *See*—
Maggio, Joe.

Magnus, Edward H., doing business as Henry Magnus, Chicago, Ill. Extract, and soft drinks. 535,178, Dec. 26; Serial No. 545,633, published Aug. 15, 1950. Class 45.

Magnus, Henry: *See*—
Magnus, Edward H.

Mallory, P. R., & Co., Inc.: *See*—
Mallory, P. R. & Co., Incorporated.

Mallory, P. R., & Co. Incorporated, to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrode material. 281,177, renewed Mar. 10, 1951. O. G. Dec. 26. Class 14.

Mam-Zelle Corporation, Gardena, Calif. Vaginal douche syringe. 535,375, Dec. 26; Serial No. 584,952, published Aug. 15, 1950. Class 44.

Maple Island Farm, Inc., Stillwater, Minn., now by change of name Maple Island, Inc. Chocolate malt flavored milk. 535,458, Dec. 26; Serial No. 591,177, published Oct. 10, 1950. Class 46.

Maple Island, Inc.: *See*—
Maple Island Farm, Inc.

Marlboro Beverage Company: *See*—
Beverage Distributors, Inc.

Marlo Products Co., Cleveland, Ohio. Foot cream; glycerine; skin lotions; etc. 535,128, Dec. 26; Serial No. 509,858, published Sept. 12, 1950. Class 51.

Marshall Field & Company, Chicago, Ill. Table knives, forks, and spoons, etc. 535,430, Dec. 26; Serial No. 588,501, published Oct. 3, 1950. Class 28.

Marshall, Mal, Inc., Miami, Fla. Men's sport and dress shirts and sport jackets. 535,389, Dec. 26; Serial No. 585,854, published Sept. 5, 1950. Class 39.

Martin-Senour Company, The, Chicago, Ill. Paints and painters' materials. 535,201, Dec. 26; Serial No. 555,281, published Sept. 12, 1950. Class 16.

Marx, Louis, & Company, Inc., New York, N. Y. Toy dump truck. 535,380, Dec. 26; Serial No. 585,291, published Sept. 12, 1950. Class 22.

Maryland Distillery, Inc., Relay, Md., assignor to The Calvert Distilling Co., by The Calvert Distilling Co., New York, N. Y. Whiskey. 365,528, Mar. 14, 1939. Republished Dec. 26. Class 49.

Massó Hermanos, S. A., Vigo, Spain. Sardines, Spanish bristling sprats, filets and anchovies, etc. 535,222, Dec. 26; Serial No. 560,212, published July 25, 1950. Class 46.

Maxwell-Phillip Co., Inc., New York, N. Y. Stands. 535,227, Dec. 26; Serial No. 560,720, published Sept. 19, 1950. Class 13.

May Department Stores Company, The, St. Louis, Mo., doing business as Kaufmann Department Stores, Pittsburgh, Pa. Wheeled mechanical toys, sand boxes, scooters, etc. 535,292, Dec. 26; Serial No. 574,438, published Sept. 12, 1950. Class 22.

Mayer, Oscar, & Co., Inc.: *See*—
Kohrs Packing Company.

McDonald Vegetable Company, Glendale, Ariz. Fresh vegetables and fresh melons. 535,381, Dec. 26; Serial No. 585,292, published Aug. 8, 1950. Class 46.

McNeil Machine & Tool Company: *See*—
McNeil, Raymond P.

McNeil, Raymond P., doing business as McNeil Machine & Tool Company, Stratford, Conn. Combination key holders and key cases. 535,151, Dec. 26; Serial No. 537,060, published Sept. 19, 1950. Class 13.

McQuay-Norris Manufacturing Company, St. Louis, Mo. Periodical publications. 276,473, renewed Oct. 21, 1950. O. G. Dec. 26. Class 38.

Mechanite Metal Corporation, Chattanooga, Tenn., to Mechanite Metal Corporation, New Rochelle, N. Y. Forgings and castings. 275,177, renewed Sept. 16, 1950. O. G. Dec. 26. Class 14.

Mercantile Stores Company, Inc., Wilmington, Del. Golf balls. 535,244, Dec. 26; Serial No. 564,209, published Oct. 3, 1950. Class 22.

Merit Protective Service, Inc. of Illinois, Chicago, Ill. Surveys of merchandise methods, sales personnel analysis, etc. 535,467, Dec. 26; Serial No. 559,038, published Sept. 26, 1950. Class 101.

Merriman Bros. Inc., Boston, Mass. Metallic dies. 535,132, Dec. 26; Serial No. 518,243, published Oct. 25, 1949. Class 23.

Meyer, Joseph H., Bros., Brooklyn, N. Y. Pearl jewelry. 535,445, Dec. 26; Serial No. 589,163, published Oct. 10, 1950. Class 28.

Mid-West Refineries, Inc., Grand Rapids, Mich. Gasoline and hydrocarbon fuels. 535,123, Dec. 26; Serial No. 488,767, published Oct. 3, 1950. Class 15.

Millen, James, Manufacturing Company, Inc., Malden, Mass. Component parts of radio communication receivers and transmitters. 535,143, Dec. 26; Serial No. 530,667, published Oct. 10, 1950. Class 21.

Miller Brewing Company, Milwaukee, Wis. Beer. 535,336, Dec. 26; Serial No. 582,094, published Sept. 19, 1950. Class 48.

Miller, Charles N., Co., Boston, Mass. Candy. 280,848, renewed Mar. 3, 1951. O. G. Dec. 26. Class 46.

Miller, Harry D., Sandwich, Ill. Ash trays. 535,352, Dec. 26; Serial No. 583,104, published Sept. 19, 1950. Class 8.

Mineral Springs Bottling Company, The: *See*—
Bellows, R. C.

Mineralac Electric Co., Chicago, Ill. Medicinal ointment. 535,482, Dec. 26; Serial No. 581,201. Class 18.

Monadnock Paper Mills, Inc., Boston, Mass. Bond, ledger, mimeograph and duplicator paper sheets. 535,439, Dec. 26; Serial No. 588,875, published Sept. 19, 1950. Class 37.

Monarch Marking System Company, The, Dayton, Ohio. Price marking labels. 535,448, Dec. 26, Serial No. 589,359, published Sept. 19, 1950. Class 37.

Monsanto Chemical Company, St. Louis, Mo. Halogenated organic compounds. 535,444, Dec. 26; Serial No. 589,031, published Sept. 19, 1950. Class 6.

Montag Brothers, Inc., Atlanta, Ga. Loose-leaf notebook fillers, composition books, wire bound books, etc. 535,398, Dec. 26; Serial No. 586,250, published Sept. 26, 1950. Class 37.

Mont La Salle Vineyards: *See*—
De La Salle Institute.

Moore & Hansen, Englewood, Colo. Bingo boards. 535,239, Dec. 26; Serial No. 563,486, published Sept. 12, 1950. Class 22.

Morey Mercantile Company, The, Denver, Colo. Honey. 535,166, Dec. 26; Serial No. 542,045, published Aug. 15, 1950. Class 46.

Motivation Charts Inc., Jewell, Iowa. Manually adjustable indicia charts. 535,186, Dec. 26; Serial No. 549,085, published Sept. 26, 1950. Class 37.

Motorola, Inc.: *See*—
Galvin Manufacturing Corporation.

Motorola, Inc., Chicago, Ill. Radio antenna. 535,305, Dec. 26; Serial No. 577,065, published Oct. 10, 1950. Class 21.

Murdoch, Hillson Limited, Glasgow, Scotland. Women's and children's blouses and skirts and knitted clothing. 535,411, Dec. 26; Serial No. 586,984, published Oct. 10, 1950. Class 39.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Tape and label holders, moisteners and activators, etc. 535,163, Dec. 26; Serial No. 540,551, published Sept. 5, 1950. Class 37.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Tape and label holders, moisteners and activators, etc. 535,164, Dec. 26; Serial No. 540,553, published Sept. 5, 1950. Class 37.

National Automotive Parts Association, Detroit, Mich. Electrical cords, wires and cables, etc. 535,474, Dec. 26; Serial No. 574,452, published Oct. 10, 1950. Class 21.

National Blank Book Company, Holyoke, Mass. Loose leaf and bound book paper. 535,187, Dec. 26; Serial No. 549,649, published Sept. 12, 1950. Class 37.

National Brass Company, Grand Rapids, Mich. Locks, latches, parts to door locks, etc. 444,366, Dec. 26; Serial No. 498,439, published Aug. 29, 1950. Class 25.

National Fire Proofing Company, to National Fireproofing Corporation, Pittsburgh Pa. Structural blocks and tiles. 80,236, re-renewed Nov. 22, 1950. O. G. Dec. 26. Class 12.

National Fireproofing Corporation: *See*—
National Fire Proofing Company.

National Paper Products Company: *See*—
Crown Zellerbach Corporation.

Needle Industries Limited: *See*—
Wilkes, Henry, & Co., Limited.

Newbry Orchards: *See*—
Newbry & Sons.

Newbry & Sons, Talent, to Newbry Orchards, Ashland, Oreg. Fresh deciduous fruits. 278,320, renewed Dec. 16, 1950. O. G. Dec. 26. Class 46.

Niehoff, C. E., & Co., Chicago, Ill. Automotive electrical system parts. 535,333, Dec. 26; Serial No. 581,972, published Sept. 26, 1950. Class 21.

Nisbet, A. R., & Sons, San Angelo, Tex. Air blast machine. 535,407, Dec. 26; Serial No. 586,649, published Sept. 12, 1950. Class 23.

Norris Inc., Atlanta, Ga. Candy. 535,130, Dec. 26; Serial No. 516,163, published July 4, 1950. Class 46.

Northern Paper Mills, Green Bay, Wis. Paper products. 535,423, Dec. 26; Serial No. 588,041, published Sept. 12, 1950. Class 37.

Norton Company, Worcester, Mass. Abrading, grinding, and lapping machines and attachments therefor, etc. 535,293, Dec. 26; Serial No. 574,723, published Sept. 12, 1950. Class 23.

Oceana Imports Inc., New York, N. Y. Ladies' and men's berets. 535,357, Dec. 26; Serial No. 583,280, published Sept. 5, 1950. Class 39.

Odence, Charles, Company, Boston, Mass. Cigars, cigarettes, smoking tobaccos, etc. 535,300, Dec. 26; Serial No. 575,920, published Sept. 26, 1950. Class 17.

Old Colony Envelope Company, Westfield, Mass. Writing paper and envelopes. 535,424–6, Dec. 26; Serial Nos. 588,181–3, published Sept. 5, 1950. Class 37.

Olin Industries Inc.: *See*—
Bond Electric Corporation.

Oliver Corporation, The, Chicago, Ill. Plows and parts thereof. 444,371, Dec. 26; Serial No. 515,129, published Sept. 12, 1950. Class 23.

Olsen, Gene, Corporation, Adrian, Mich. Concrete products machinery. 535,287, Dec. 26; Serial No. 572,915, published Aug. 29, 1950. Class 23.

Omni Products Corporation, New York, N. Y. Polyvinyl chloride resins and compounds. 535,219–20, Dec. 26; Serial Nos. 559,239–40, published Sept. 19, 1950. Class 6.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated flat tableware. 535,418, Dec. 26; Serial No. 587,741, published Oct. 3, 1950. Class 28.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated flat and hollow tableware. 535,450, Dec. 26; Serial No. 589,523, published Oct. 10, 1950. Class 28.

Orange-Crush Company, Chicago, Ill. Non-alcoholic, maltless soft drinks, etc. 535,383, Dec. 26; Serial No. 585,680, published Sept. 26, 1950. Class 45.

Oshkosh Brewing Company, Oshkosh, Wis. Beer. 535,202, Dec. 26; Serial No. 555,347, published Aug. 22, 1950. Class 48.

Pacific Produce Company, San Francisco, Calif. Fresh and dried garlic. 535,142, Dec. 26; Serial No. 530,556, published Aug. 8, 1950. Class 46.

Park Tool & Die Co., Jackson, Mich. Archery bows. 535,303, Dec. 26; Serial No. 577,009, published Sept. 19, 1950. Class 22.

Parke, Davis & Company, Detroit, Mich. Bandage gauze. 535,475, Dec. 26; Serial No. 521,923. Class 44.

Paulsom Candies: *See*—
Gonzales, Henry.

Payne, El Roy L., Beverly Hills, Calif. Combined golf bag, cart, and chair. 535,353, Dec. 26; Serial No. 583,114, published Sept. 12, 1950. Class 22.

Peerless Mills Co. of New York, Inc., New York, N. Y. Textile fabrics. 535,265, Dec. 26; Serial No. 570,716, published Sept. 19, 1950. Class 42.

Peerless Mills Co. of New York, Inc., New York, N. Y. Textile fabrics in the piece. 535,266, Dec. 26; Serial No. 570,717, published Sept. 20, 1949. Class 42.

Peerless Mills Co. of New York, Inc., New York, N. Y. Textile fabrics. 535,268, Dec. 26; Serial No. 570,881, published Sept. 19, 1950. Class 42.

Penguin Pens, Inc., New York, N. Y. Fountain pens, ball pens, and mechanical pencils. 535,158, Dec. 26; Serial No. 539,077, published Sept. 26, 1950. Class 37.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Metal bromates. 535,290, Dec. 26; Serial No. 574,110, published Sept. 19, 1950. Class 6.

Pepper-Grenald Labs., to Ben Z Grenald, Miami Beach, Fla. Medicinal preparation. 511,493, June 21, 1949. New certificate. O. G. Dec. 26. Class 6.

Perfection Company, Ltd., The, Waco, Tex. Imitation flavor concentrates. 535,203, Dec. 26; Serial No. 555,443, published Sept. 26, 1950. Class 45.

Pick Hotels Corporation, Chicago, Ill. Restaurant services. 535,464–5, Dec. 26; Serial Nos. 537,822–3, published Sept. 19, 1950. Class 100.

Pictsweet Foods, Inc.: *See*—
Bozeman Canning Company.

Pioneer Rubber Company, The, Willard, Ohio. Gloves. 535,390, Dec. 26; Serial No. 585,859, published Oct. 10, 1950. Class 39.

Pirelli Societa per Azioni, Milan, Italy. Hard rubber parts of telephone receivers or transmitters, etc. 535,274, Dec. 26; Serial No. 571,686, published Sept. 26, 1950. Class 21.

Pittsburg Storage Company, Pittsburg, Tex. Fresh sweet potatoes. 535,360, Dec. 26; Serial No. 583,670, published Aug. 8, 1950. Class 46.

Plastic Laminating Corp., Union, N. J. Hydraulic laminating presses. 535,252, Dec. 26; Serial No. 566,099, published Sept. 5, 1950. Class 23.

Polsen, Samuel D., Bridgeport, Conn. Coin operated milk vending or dispensing machines. 535,197, Dec. 26; Serial No. 553,216, published Sept. 12, 1950. Class 23.

Popper-Morson Company: *See*—
Popper-Morson Corp.

Popper-Morson Corp., Jersey City and Newark, N. J., and New York, N. Y., assignor to Popper-Morson Company, New York, N. Y. Alcoholic cordials, alcoholic liqueurs and flavored gins, etc. 535,320, Dec. 26; Serial No. 579,942, published Sept. 19, 1950. Class 49.

Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Preparation of procaine penicillin G. 535,399, Dec. 26; Serial No. 586,255, published Sept. 12, 1950. Class 18.

Pretty Products, Inc., Coshocton, Ohio. Bathing caps. 535,401, Dec. 26; Serial No. 586,309, published Sept. 12, 1950. Class 39.

Printing Supply Corporation, Morristown, Tenn. Scale tickets. 535,421, Dec. 26; Serial No. 587,912, published Sept. 5, 1950. Class 37.

Procter & Gamble Company, The: *See*—
Butler Brothers.

Protective Papers, Inc., Elgin and Union, Ill. Waterproof paper rolls, greaseproof paper rolls, etc. 535,153, Dec. 26; Serial No. 537,356, published Sept. 19, 1950. Class 37.

Providence Braid Company, Pawtucket, R. I. Electrical sleevings. 535,309, Dec. 26; Serial No. 577,591, published Oct. 10, 1950. Class 21.

Quaker Oats Company, The, Chicago, Ill. Furfuryl alcohol. 530,185, Sept. 5, 1950. Corrected. O. G. Dec. 26. Class 6.

Quaker Oats Company, The, Chicago, Ill. Oat flour. 535,254, Dec. 26; Serial No. 566,279, published Aug. 8, 1950. Class 46.

Quality Products Company, Chicago, Ill. Covers and pads for ironing machines, etc. 535,263, Dec. 26; Serial No. 569,638, published Oct. 10, 1950. Class 24.

Radiant Pen Corp., New York, N. Y. Pen points. 535,436, Dec. 26; Serial No. 588,770, published Oct. 3, 1950. Class 37.

Rapid Roller Co., Chicago, Ill. Tympan overlay paper. 535,165, Dec. 26; Serial No. 541,708, published Oct. 3, 1950. Class 37.

Rawlings International, Inc., New York, N. Y. Shave soap, solidified shave-cream, lather shave-cream, etc. 535,141, Dec. 26; Serial No. 530,120, published Mar. 9, 1948. Class 51.

Ray-O-Vac Company, Madison, Wis. Dry cells for flashlights and dry cell batteries. 535,347–51, Dec. 26; Serial Nos. 582,856–60, published Oct. 10, 1950. Class 21.

Red Jacket Manufacturing Co., Davenport, Iowa. Base exchange water treatment apparatus, water filters and parts thereof. 535,433, Dec. 26; Serial No. 588,708, published Sept. 19, 1950. Class 31.

Reelon Corporation, South San Francisco, Calif. Racquet strings and fishing leader materials. 535,251, Dec. 26; Serial No. 565,813, published Sept. 12, 1950. Class 22.

Reeves Brothers, Inc., New York, N. Y. Piece goods. 535,456, Dec. 26; Serial No. 590,913, published Aug. 29, 1950. Class 42.

Reeves Parvin & Co., Philadelphia, Pa. Catsup, honey, alimentary paste, etc. 280,894, renewed Mar. 3, 1951. O. G. Dec. 26. Class 46.

Reliance Life Insurance Company of Pittsburgh, Pittsburgh, Pa. Underwriting of life insurance. 535,466, Dec. 26; Serial No. 540,876, published Oct. 3, 1950. Class 102.

Richards-Wilcox Manufacturing Company, Aurora, Ill. Sheet steel doors. 531,964, Oct. 17, 1950. Corrected. O. G. Dec. 26. Class 12.

Richason, T. F., doing business as Madison Pharmacal Co., Anderson, Ind. Medicinal preparation. 535,315, Dec. 26; Serial No. 579,134, published Sept. 12, 1950. Class 18.

Richfield Oil Corporation, Los Angeles, Calif. Storage batteries. 535,331, Dec. 26; Serial No. 581,897, published Oct. 10, 1950. Class 21.

Rochester Button Company, Rochester, N. Y. Decorative inserts for jewelry. 535,437–8, Dec. 26; Serial Nos. 588,812–13, published Oct. 10, 1950. Class 28.

Rudinger, C. I., doing business under the fictitious name and style of Kooltone Mfg. Co., San Francisco, Calif. Soothing lotion. 535,481, Dec. 26; Serial No. 579,760. Class 51.

Rugg, E. T., Company, The, Newark, Ohio. Lawn mowers. 535,212, Dec. 26; Serial No. 558,247, published Sept. 12, 1950. Class 23.

Sachs, Harry, doing business as Flavorex Company, Baltimore, Md. Non-alcoholic, maltless beverages. 535,183, Dec. 26; Serial No. 547,841, published Aug. 22, 1950. Class 45.

Salt Lake Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.

Schneeberger, Leroy O., doing business as The Shakolet Company, St. Louis, Mo. Maltless soft drinks. 535,253, Dec. 26; Serial No. 566,247, published Nov. 1, 1949. Class 45.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's chemises, princess slips, bloomers, etc. 535,417, Dec. 26; Serial No. 587,655, published Oct. 10, 1950. Class 39.

Schwerin Research Corporation, New York, N. Y. Research service. 535,489, Dec. 26; Serial No. 556,131. Class 100.

Seabrook Farms Co.: *See*—
Deerfield Packing Corporation.

Sears, Roebuck and Co., Chicago, Ill. Hand and motor driven non-commercial ice cream freezers. 535,440, Dec. 26; Serial No. 588,898, published Sept. 19, 1950. Class 31.

Shakolet Company, The: *See*—
Schneeberger, Leroy O.

Shapiro Paper Corporation, New York, N. Y. Paper. 535,373, Dec. 26; Serial No. 584,926, published Sept. 5, 1950. Class 37.

Shasta Water Company, The, San Francisco, Calif. Carbonated water. 535,278, Dec. 26; Serial No. 571,937, published Aug. 29, 1950. Class 45.

Sherman Paper Products Corporation, Newton, Mass. Corrugated wrapping paper. 535,453, Dec. 26; Serial No. 589,747, published Sept. 26, 1950. Class 37.

Shulton, Inc.: *See*—
Leigh Chemist, Inc.

Silicote Corporation, The, Oshkosh, Wis. Dressing for water-proofing flylines and flies. 535,214, Dec. 26; Serial No. 558,525, published Mar. 28, 1950. Class 6.

Singer Manufacturing Company, The, New York, N. Y., and Elizabeth, N. J., to The Singer Manufacturing Company, Elizabeth, N. J. Hand sewing needles. 79,937, re-renewed Oct. 18, 1950. O. G. Dec. 26. Class 40.

Sisk, Albert W., & Son, Preston, Md. Canned tomatoes. 535,199, Dec. 26; Serial No. 554,523, published July 11, 1950. Class 46.

Smith, Chester W., doing business under the name Whitfield Chemicals, Detroit, Mich. Synthetic detergent. 535,208, Dec. 26; Serial No. 557,169, published Sept. 19, 1950. Class 52.

Smith, James P., & Company, Inc., New York, N. Y. Plain and stuffed olives. 535,175, Dec. 26; Serial No. 544,616, published Feb. 22, 1949. Class 46.

Société Parisienne d'Expansion Chimique, Paris, France. Chemical substances. 270,232, renewed Apr. 29, 1950. O. G. Dec. 26. Class 18.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Kraft wrapping paper. 535,281, Dec. 26; Serial No. 572,524, published Sept. 26, 1950. Class 37.

Southern Pine Association, New Orleans, La. Informational services to the southern pine lumber industry, etc. 535,468, Dec. 26; Serial No. 562,281, published Sept. 26, 1950. Class 101.

Sparks-Withington Company, The, Jackson, Mich. Electrical warning signals, radio receivers, radio-phonograph combinations, etc. 535,247, Dec. 26; Serial No. 564,843, published Oct. 10, 1950. Class 21.

Spencer, Richard, Chicago, Ill. Pyrophoric cigarette lighters. 535,301, Dec. 26; Serial No. 576,021, published Oct. 10, 1950. Class 8.

Staley, A. E., Manufacturing Company, Decatur, Ill. Monosodium glutamate. 535,129, Dec. 26; Serial No. 513,139, published Nov. 29, 1949. Class 46.

Standard Alcohol Company, New York, N. Y., now by change of name Enjay Company, Inc. Hydrocarbon plasticizing ingredient. 444,367, Dec. 26; Serial No. 510,211, published Sept. 19, 1950. Class 6.

Star Expansion Bolt Company, to Star Expansion Bolt Company, New York, N. Y. Expansion bolts, expansion shields, bolt and screw anchors, etc. 80,004, re-renewed Oct. 25, 1950. O. G. Dec. 26. Class 13.

Star Expansion Bolt Company, to Star Expansion Bolt Company, New York, N. Y. Brick and stone drills, pipe drills, extension drills, etc. 80,446, re-renewed Dec. 20, 1950. O. G. Dec. 26. Class 23.

Star Expansion Bolt Company, to Star Expansion Bolt Company, New York, N. Y. Cable clamps, cable clips, cable dogs, etc. 80,684, re-renewed Jan. 17, 1951. O. G. Dec. 26. Class 21.

Steinam, A., Company, Inc., New York, N. Y. Piece goods. 535,246, Dec. 26; Serial No. 564,471, published Sept. 19, 1950. Class 42.

Steiner, Ernest: *See*—
Ingenue, Inc.

Stetson, John B., Company, Philadelphia, Pa. Hats and caps. 535,408, Dec. 26; Serial No. 586,711, published Sept. 12, 1950. Class 39.

Stetson Paint & Varnish Company, Chicago, Ill. Varnish. 535,159, Dec. 26; Serial No. 539,783, published Sept. 5, 1950. Class 16.

Stone Mountain Grit Company: *See*—
Stone Mountain Grit Company, Inc.

Stone Mountain Grit Company, Inc., to Stone Mountain Grit Company, Lithonia, Ga. Poultry grit. 275,114, renewed Sept. 16, 1950. O. G. Dec. 26. Class 1.

Storch, Max H., New York, N. Y. Silverplated and sterling silver knives, forks, spoons, etc. 535,484–5, Dec. 26; Serial Nos. 588,328–9. Class 28.

Storch, Max H., New York, N. Y. Silverplated and sterling silver knives, forks, spoons, etc. 535,486, Dec. 26; Serial No. 588,331. Class 28.

Stork Company, The, Weymouth, Mass. Waterproof sheeting and shower curtains. 535,228, Dec. 26; Serial No. 561,269, published Sept. 19, 1950. Class 42.

Storms, H. M., Company, Brooklyn, N. Y. Carbon paper. 211,785, Apr. 20, 1920. Republished Dec. 26. Class 11.

Storms, H. M., Company, Brooklyn, N. Y. Carbon paper. 427,075, Jan. 28, 1947. Republished Dec. 26. Class 11.

Styron-Beggs Company, The, Newark, Ohio. Bluing and talcum powder. 279,066, renewed Jan. 6, 1951. O. G. Dec. 26. Class 51.

Sunlight Milling Company, Mount Vernon, Ind. Plain flour. 235,923, Nov. 29, 1927. Restricted. O. G. Dec. 26. Class 46.

Symphony Lingerie Co., Inc., New York, N. Y. Lingerie. 535,240, Dec. 26; Serial No. 563,644, published Sept. 26, 1950. Class 39.

Tailored Woman, Inc., The, New York, N. Y. Women's dresses, coats, suits, hats, etc. 378,025, May 21, 1940. Republished Dec. 26. Class 39.

Takamine Laboratory, Inc., Clifton, N. J. Dry cleaning soap compound. 535,282, Dec. 26; Serial No. 572,529, published Sept. 12, 1950. Class 52.

Tate, E. H., Company, Boston, Mass. Friction catches and master keys. 535,338, Dec. 26; Serial No. 582,373, published Aug. 29, 1950. Class 25.

Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Electric generators, motors and transformers. 415,574, Aug. 7, 1945. Amended. O. G. Dec. 26. Class 21.

Tel-O Post Company, Akron, Ohio. Hand fire extinguisher. 535,173, Dec. 26; Serial No. 543,337, published Sept. 19, 1950. Class 23.

Tenderaweet Sales Corporation, Cedar Rapids, Iowa, assignee of Iowa Canning Company. Canned vegetables. 535,148, Dec. 26; Serial No. 535,040, published Aug. 8, 1950. Class 46.

Tennessee Corporation, New York, N. Y. Fertilizers. 535,310, Dec. 26; Serial No. 577,621, published Oct. 3, 1950. Class 10.

Tesco Corporation, The, Cleveland, Ohio. Live bait buckets. 535,409, Dec. 26; Serial No. 586,946, published Sept. 19, 1950. Class 22.

Textile Distributors, Inc., Thomasville, N. C. Hosiery. 535,410, Dec. 26; Serial No. 586,947, published Sept. 26, 1950. Class 39.

Textile Specialty Co., Inc., Greensboro, N. C. Loom reeds. 278,346, renewed Dec. 16, 1950. O. G. Dec. 26. Class 23.

Timcor, Inc., Cleveland, Ohio. Artificial fish lure. 535,194, Dec. 26; Serial No. 552,288, published Sept. 19, 1950. Class 22.

Tootal Broadhurst Lee Co. Limited, Manchester, England. Women's and children's frocks, blouses, suits, etc. 535,188, Dec. 26; Serial No. 550,967, published Sept. 12, 1950. Class 39.

Treichler, Lorin F., North Plainfield, N. J. Lathe centers. 535,369, Dec. 26; Serial No. 584,515, published Sept. 19, 1950. Class 23.

Trimz Company, Inc., Chicago, Ill. Draperies and fabric wall coverings. 535,225, Dec. 26; Serial No. 560,505, published Sept. 12, 1950. Class 42.

Trippe Barker & Company, to William Lind, doing business as William Lind Co., New York, N. Y. Cotton and linen piece goods. 81,180, re-renewed Mar. 7, 1951. O. G. Dec. 26. Class 42.

Trisco Waterproofing Company, The: *See*—
Walter, William H.

Troy Chemical Co., Inc., The: *See*—
Troy Chemical Co., Inc.

Troy Chemical Co., Inc., Binghamton, to The Troy Chemical Co., Inc., New York, N. Y. Liniment. 276,104, renewed Oct. 7, 1950. O. G. Dec. 26. Class 18.

Troy Yarn & Textile Co., Pawtucket, R. I. Braided rugs. 535,273, Dec. 26; Serial No. 571,587, published Sept. 19, 1950. Class 42.

Unipress Company, Incorporated, The, Minneapolis, Minn. Laundry presses. 535,428, Dec. 26; Serial No. 588,404, published Oct. 10, 1950. Class 24.

United American Company, also doing business as United American Co., Inc., Louisville, Ky., and New York, N. Y., assignor to Drug Laboratories, Inc., New York, N. Y. Antacid. 535,391–2, Dec. 26; Serial Nos. 585,962–3, published Sept. 12, 1950. Class 18.

United American Co., Inc.: *See*—
United American Company.

United Wallpaper, Inc., Chicago, Ill. Wallpaper and borders. 535,145, Dec. 26; Serial No. 534,068, published Sept. 5, 1950. Class 37.

United Wallpaper, Inc., Chicago, Ill. Wallpaper. 535,205, Dec. 26; Serial No. 556,298, published Sept. 26, 1950. Class 37.

United States Envelope Company, Springfield, Mass. Merchandise envelopes. 278,477, renewed Dec. 16, 1950. O. G. Dec. 26. Class 2.

U. S. Insecticides Company: *See*—
Wolf, E. J.

United States Rubber Company, New York, N. Y. Synthetic latex and resin composition. 535,264, Dec. 26; Serial No. 570,528, published Sept. 19, 1950. Class 6.

Universal Fountain Pen & Pencil Co., assignor to Universal Fountain Pen & Pencil Co., Inc., New York, N. Y. Fountain pens. 535,328–9, Dec. 26; Serial Nos. 581,509–10, published Sept. 5, 1950. Class 37.

Universal Fountain Pen & Pencil Co., Inc.: *See*—
Universal Fountain Pen & Pencil Co.

Universal Oil Products Company, Chicago, Ill. Butylated hydroxyanisole. 535,441, Dec. 26; Serial No. 588,983, published Sept. 19, 1950. Class 6.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 535,402, Dec. 26; Serial No. 586,383, published Sept. 12, 1950. Class 18.

Vance Laboratories, San Francisco, Calif. Medicinal preparation. 444,365, Dec. 26; Serial No. 489,629, published Jan. 25, 1949. Class 18.

Van Dusen Harrington Co., Minneapolis, Minn., doing business under the name of King Midas Flour Mills. Rye flour. 535,179, Dec. 26; Serial No. 545,872, published Aug. 1, 1950. Class 46.

Velveray Corporation, New York, N. Y. Decorated and printed plastic films. 535,271–2, Dec. 26; Serial Nos. 571,473–4, published Sept. 19, 1950. Class 42.

Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 278,814, renewed Dec. 30, 1950. O. G. Dec. 26. Class 35.

Vimcar Sales Company: *See*—
Carter, Victor M.

Vortox Company: *See*—
Vortox Manufacturing Company.

Vortox Manufacturing Company, to H. H. Garner, doing business as Vortox Company, Claremont, Calif. Air cleaners and crank-case breathers. 272,928, renewed July 15, 1950. O. G. Dec. 26. Class 23.

Wagner, Charles P., and Brother: *See*—
Wagner, Wiltz W.

Wagner Tool & Supply Corp., Long Island City, N. Y. Capillary tube and strainer combination for refrigerators. 535,395, Dec. 26; Serial No. 586,212, published Sept. 19, 1950. Class 31.

Wagner, Wiltz W., doing business as Charles P. Wagner and Brother, New Orleans, La. Mixture of fruits and nuts. 535,126, Dec. 26; Serial No. 502,045, published Aug. 15, 1950. Class 46.

Walker-Gordon Laboratory Company, Plainsboro, N. J. Dehydrated cow manure. 535,306, Dec. 26; Serial No. 577,085, published Oct. 3, 1950. Class 10.

Wallmaster Radios, Inc., San Francisco, Calif. Built in wall radio receiving set. 535,285, Dec. 26; Serial No. 572,786, published Sept. 26, 1950. Class 21.

Walter, William H., doing business as The Trisco Waterproofing Company, Lima, Ohio. Structural restoration and waterproofing of masonry walls. 535,472, Dec. 26; Serial No. 586,026, published Oct. 3, 1950. Class 103.

Wasserstein Brothers, New York, N. Y. Textile ribbons. 444,376, Dec. 26; Serial No. 525,993, published Sept. 19, 1950. Class 42.

Weinreich Brothers, New York, N. Y. Pearl necklaces, pearl earrings, pearl bracelets, etc. 535,376, Dec. 26; Serial No. 585,003, published Oct. 10, 1950. Class 28.

Weiss, Jerome H., doing business as Alaska Sleeping Bag Company, Portland, Oreg. Sleeping bags. 535,236, Dec. 26; Serial No. 561,962, published Sept. 12, 1950. Class 22.

Westerfield Pharmacal Co. Inc., Dayton, Ohio. Chemical test set. 535,374, Dec. 26; Serial No. 584,938, published Aug. 15, 1950. Class 44.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 444,376, Dec. 26; Serial No. 526,136, published Oct. 3, 1950. Class 37.

Westfield River Paper Co., Inc., Russell, Mass. Laminated paper in sheet or roll form. 535,322, Dec. 26; Serial No. 580,110, published Sept. 5, 1950. Class 37.

Weston Electrical Instrument Corporation, Newark, N. J. Light sensitive cells. 535,434, Dec. 26; Serial No. 588,722, published Sept. 26, 1950. Class 21.

White, Halbert L., Kansas City, Mo. Brackets. 535,204, Dec. 26; Serial No. 574,650, published Sept. 26, 1950. Class 13.

White Castle System, Inc., Columbus, Ohio. Prepared sandwiches; bakery products. 535,144, Dec. 26; Serial No. 531,402, published Aug. 15, 1950. Class 46.

Whitfield Chemicals: *See*—
Smith, Chester W.

Wiesen, Max, & Sons Co., Inc., New York, N. Y. Dresses. 535,241, Dec. 26; Serial No. 563,962, published Sept. 12, 1950. Class 39.

Wilfong Fireworks & Specialties Co., Fort Worth, Tex. Firecrackers. 535,216–17, Dec. 26; Serial Nos. 558,677–8, published Sept. 12, 1950. Class 9.

Wilkes, Henry, & Co., Limited, Studley, England, to Needle Industries Limited, Birmingham, England. Needles, bodkins, crochet hooks, etc. 276,533, renewed Oct. 21, 1950. O. G. Dec. 26. Class 40.

Wilkins, E. J., Company, Gloversville, N. Y. Card cases. 531,118, Sept. 19, 1950. Corrected. O. G. Dec. 26. Class 3.

Wilkins, E. J., Company, Gloversville, N. Y. Billfolds. 532,217, Oct. 17, 1950. Corrected. O. G. Dec. 26. Class 3.

Wilkins, E. J., Company, Gloversville, N. Y. Leather purses. 532,225, Oct. 17, 1950. Corrected. O. G. Dec. 26. Class 3.

Wilson Cabinet Co., Inc., Smyrna, Del., now by merger and change of name Wilson Refrigeration, Inc. Milk coolers. 535,403, Dec. 26; Serial No. 586,448, published Aug. 15, 1950. Class 31.

Wilson Refrigeration, Inc.: *See*—
Wilson Cabinet Co., Inc.

Wine Associates: *See*—
Madera Bonded Wine and Liquor Company, The

Withers, C. H., Niland, Calif. Fresh oranges. 535,184, Dec. 26; Serial No. 548,037, published Aug. 1, 1950. Class 46.

Wolf, E. J., doing business under the name and style of U. S. Insecticides Company, Seattle, Wash. Emulsifiable concentrate of chlordane. 535,447, Dec. 26; Serial No. 589,290, published Sept. 19, 1950. Class 6.

Woods, J. R., & Sons, Inc., New York, N. Y. Finger rings. 535,416, Dec. 26; Serial No. 587,517, published Oct. 3, 1950. Class 28.

Wormalds & Walker Limited, Dewsbury, England. Blankets and rugs. 535,223, Dec. 26; Serial No. 560,243, published Sept. 19, 1950. Class 42.

Y & Y Deodorizer Co., Philadelphia, Pa. Deodorizer. 535,345, Dec. 26; Serial No. 582,715, published Sept. 26, 1950. Class 21.

Yale & Towne Manufacturing Co., The, New York, N. Y. Locks and keys. 535,157, Dec. 26; Serial No. 538,220, published Sept. 26, 1950. Class 25.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather, Upper. **Beggs & Cobb, Incorporated.** 535,332, Dec. 26; Serial No. 581,931, published July 4, 1950.

Natural asparagus plumosus sprays and prepared natural plumosus sprays. **Florida Greens Corporation.** 275,117, renewed Sept. 16, 1950. O. G. Dec. 26.

Poultry grit. **Stone Mountain Grit Company, Inc.** 275,114, renewed Sept. 16, 1950. O. G. Dec. 26.

CLASS 2

Envelopes, Merchandise. **United States Envelope Company.** 278,477, renewed Dec. 16, 1950. O. G. Dec. 26.

Vaults, Burial. **Wilbert W. Hasse Co.** 533,495, Nov. 14, 1950. Corrected. O. G. Dec. 26.

CLASS 3

Billfolds. **E. J. Wilkins Company.** 532,217, Oct. 17, 1950. Corrected. O. G. Dec. 26.

Cases, Card. **E. J. Wilkins Company.** 531,118, Sept. 19, 1950. Corrected. O. G. Dec. 26.

Purses, Leather. **E. J. Wilkins Company.** 532,225, Oct. 17, 1950. Corrected. O. G. Dec. 26.

CLASS 4

Cleanser, Liquid. **K. Lehmann, Jr.** 535,218, Dec. 26; Serial No. 558,796, published Mar. 1, 1949.

Polishing preparations. **The Kiwi Polish Company Proprietary Limited.** 535,479, Dec. 26; Serial No. 565,189.

CLASS 5

Resorcinol-formaldehyde material used as adhesives. **Koppers Company, Inc.** 535,293, Dec. 26; Serial No. 574,583, published Aug. 15, 1950.

CLASS 6

Air purifying, deodorizing, medicating or perfuming cakes or tablets. **Costello-Mausure, Inc.** 535,419, Dec. 26; Serial No. 587,839, published Sept. 26, 1950.

Alcohol, Furfuryl. **The Quaker Oats Company.** 530,185, Sept. 5, 1950. Corrected. O. G. Dec. 26.

Alginic acid, sodium alginate, ammonium alginate, etc. **Kelco Company.** 277,972, Dec. 2, 1930. Republished Dec. 26.

Bromates, Metal. **The Pennsylvania Salt Manufacturing Company.** 535,290, Dec. 26; Serial No. 574,110, published Sept. 19, 1950.

Butylated hydroxyanisole. **Universal Oil Products Company.** 535,441, Dec. 26; Serial No. 588,983, published Sept. 19, 1950.

Concentrate of chlordane, Emulsifiable. **E. J. Wolf.** 535,447, Dec. 26; Serial No. 589,290, published Sept. 19, 1950.

Disinfectant. **E. I. du Pont, de Nemours and Company.** 276,095, renewed Oct. 7, 1950. O. G. Dec. 26.

Dressing for water-proofing flylines and flies. **The Silicote Corporation.** 535,214, Dec. 26; Serial No. 558,525, published Mar. 28, 1950.

Dyes and dyestuffs. **E. I. du Pont, de Nemours, and Company.** 277,171, renewed Nov. 11, 1950. O. G. Dec. 26.

Dyes and dyestuffs. **E. I. du Pont, de Nemours, and Company.** 277,397, renewed Nov. 11, 1950. O. G. Dec. 26.

Fatty oils, Modified, and blends of modified fatty oils. **Archer-Daniels-Midland Company.** 535,224, Dec. 26; Serial No. 560,311, published Sept. 19, 1950.

Fire extinguishing compositions, insecticides and room deodorants. **Bostwick Laboratories, Inc.** 535,288, Dec. 26; Serial No. 573,227, published Sept. 19, 1950.

Hydrocarbon plasticizing ingredient. **Standard Alcohol Company.** 444,367, Dec. 26; Serial No. 510,211, published Sept. 19, 1950.

Latex, Synthetic, and resin composition. **United States Rubber Company.** 535,264, Dec. 26; Serial No. 570,528, published Sept. 19, 1950.

Medicinal preparation. **Pepper-Grenald Labs.** 511,493, June 21, 1949. New certificate. O. G. Dec. 26.

Organic compounds, Halogenated. **Monsanto Chemical Company.** 535,444, Dec. 26; Serial No. 589,031, published Sept. 19, 1950.

Petroleum or mineral jelly. **Freedom Valvoline Oil Company.** 535,269, Dec. 26; Serial No. 571,023, published Sept. 12, 1950.

Polyvinyl chloride resins and compounds. **Omni Products Corporation.** 535,219–20, Dec. 26; Serial Nos. 559,239–40, published Sept. 19, 1950.

Preparations for fire extinguishers; insecticides; disinfectants; etc. **R. M. Hollingshead Corporation.** 535,296, Dec. 26; Serial No. 574,773, published Sept. 19, 1950.

Preservative, Liquid. **Industrial Paint Manufacturing Company.** 535,478, Dec. 26; Serial No. 565,055.

Termite solutions and other insecticides. **Chemtox Company, Ltd.** 535,397, Dec. 26; Serial No. 586,235, published Sept. 19, 1950.

CLASS 8

Ash trays. **Anchor Hocking Glass Corporation.** 535,443, Dec. 26; Serial No. 589,000, published Oct. 10, 1950.

Ash trays. **Imperial Glass Corporation.** 535,451, Dec. 26; Serial No. 589,576, published Sept. 19, 1950.

Ash trays. **H. D. Miller.** 535,352, Dec. 26; Serial No. 583,104, published Sept. 19, 1950.

Holders, Cigarette. **Kilk Promotions, Inc.** 535,414, Dec. 26; Serial No. 587,269, published Sept. 19, 1950.

Lighters, Pyrophoric cigarette. **R. Spencer.** 535,301, Dec. 26; Serial No. 576,021, published Oct. 10, 1950.

CLASS 9

Firecrackers. **Wilfong Fireworks & Specialties Co.** 535,216–17, Dec. 26; Serial Nos. 558,677–8, published Sept. 12, 1950.

Matches. **The Americtn Tobacco Company.** 535,446, Dec. 26; Serial No. 589,187, published Sept. 26, 1950.

Pistols and parts therefor. **The High Standard Manufacturing Corporation.** 535,463, Dec. 26; Serial No. 600,246, published Sept. 12, 1950.

Revolvers, pistols, rifles, and shotguns. **Harrington & Richardson Arms Company.** 535,317, Dec. 26; Serial No. 579,370, published Sept. 19, 1950.

CLASS 10

Fertilizer. **Atlas Chemical Company.** 535,459, Dec. 26; Serial No. 591,342, published Sept. 26, 1950.

Fertilizer. **Grocery Store Products Co.** 535,429, Dec. 26; Serial No. 588,487, published Oct. 3, 1950.

Fertilizer, Agricultural. **Lyons Fertilizer Company.** 535,406, Dec. 26; Serial No. 586,557, published Oct. 3, 1950.

Fertilizers. **Tennessee Corporation.** 535,310, Dec. 26; Serial No. 577,621, published Oct. 3, 1950.

Manure, Dehydrated cow. **Walker-Gordon Laboratory Company.** 535,306, Dec. 26; Serial No. 577,085, published Oct. 3, 1950.

Peat moss. Atkins & Durbrow, Inc. 535,237–8, Dec. 26; Serial Nos. 563,098–9, published Oct. 3, 1950.
Plant food. Agricultural Laboratories, Inc. 535,283, Dec. 26; Serial No. 572,643, published Oct. 3, 1950.

CLASS 11

Carbon paper. H. M. Storms Company. 211,785, Apr. 20, 1926. Republished Dec. 26.
Carbon paper. H. M. Storms Company. 427,075, Jan. 28, 1947. Republished Dec. 26.

CLASS 12

Blocks and tiles, Structural. National Fire Proofing Company. 80,236, re-renewed Nov. 22, 1950. O. G. Dec. 26.
Doors, Sheet steel. Richards-Wilcox Manufacturing Company. 531,904, Oct. 17, 1950. Corrected. O. G. Dec. 26.
Mixtures of tar, asphalt, pitch, etc. Geigy Company, Inc. 278,390, renewed Dec. 16, 1950. O. G. Dec. 26.
Wire reinforcements, Welded. The Carter-Waters Corp. 535,480, Dec. 26; Serial No. 565,234.

CLASS 13

Bolts, Expansion, expansion shields, bolt and screw anchors, etc. Star Expansion Bolt Company. 80,004, re-renewed Oct. 25, 1950. O. G. Dec. 26.
Brackets. H. L. White. 535,294, Dec. 26; Serial No. 574,650, published Sept. 26, 1950.
Closet screws, sink plugs, plumbing traps, etc. Chase Brass & Copper Co. Incorporated. 280,870, renewed Mar. 3, 1951. O. G. Dec. 26.
Key holders and key cases, Combination. R. P. McNeil. 535,151, Dec. 26; Serial No. 537,060, published Sept. 19, 1950.
Shields, Expansion, toggle bolts, screw anchors, etc. Arro Expansion Bolt Company. 535,169, Dec. 26; Serial No. 542,430, published Sept. 19, 1950.
Stands. Maxwell-Phillip Co., Inc. 535,227, Dec. 26; Serial No. 560,720, published Sept. 19, 1950.

CLASS 14

Electrode material. P. R. Mallory & Co. Incorporated. 281,177, renewed Mar. 10, 1951. O. G. Dec. 26.
Forgings and castings. Meehanite Metal Corporation. 275,177, renewed Sept. 16, 1950. O. G. Dec. 26.

CLASS 15

Gasoline and hydrocarbon fuels. Mid-West Refineries, Inc. 535,123, Dec. 26; Serial No. 488,767, published Oct. 3, 1950.
Gasoline, kerosene, lubricating greases, etc. E. L. Lantron. 535,124, Dec. 26; Serial No. 491,048, published Oct. 3, 1950.

CLASS 16

Paints and painters' materials. The Martin-Senour Company. 535,201, Dec. 26; Serial No. 555,281, published Sept. 12, 1950. Class 16.
Varnish. Stetson Paint & Varnish Company. 535,159, Dec. 26; Serial No. 539,783, published Sept. 5, 1950.

CLASS 17

Cigars. I. Lewis Cigar Manufacturing Company. 535,174, Dec. 26; Serial No. 543,495, published Sept. 26, 1950.
Cigars, cigarettes, smoking tobaccos, etc. Charles Odence Company. 535,300, Dec. 26; Serial No. 575,920, published Sept. 26, 1950.

CLASS 18

Alginic caid, sodium alginate, ammonium alginate, etc. Kelco Company. 277,972, Dec. 2, 1930. Republished Dec. 26.
Antacid. United American Company. 535,391–2, Dec. 26; Serial Nos. 585,962, published Sept. 12, 1950.
Chemical substances. Société Parisienne d'Expansion Chimique. 270,232, renewed Apr. 29, 1950. O. G. Dec. 26.
Disinfectant preparation, Liquid. The Cramer Chemical Company. 535,365, Dec. 26; Serial No. 584,323, published Sept. 12, 1950.
Estrogenic hormone compositions. Armour and Company. 535,138, Dec. 26; Serial No. 527,776, published Mar. 9, 1948.
Liniment. Troy Chemical Co., Inc. 276,104, renewed Oct. 7, 1950. O. G. Dec. 26.
Medicinal compound. A. C. Hemmingsen. 535,206, Dec. 26; Serial No. 536,337, published Mar. 21, 1950.
Medicinal preparation. T. F. Richason. 535,315, Dec. 26; Serial No. 579,134, published Sept. 12, 1950.
Medicinal preparation. The Upjohn Company. 535,402, Dec. 26; Serial No. 586,383, published Sept. 12, 1950.
Medicinal preparation. Vance Laboratories. 444,365, Dec. 26; Serial No. 489,629, published Jan. 25, 1949.
Ointment, Medicinal. Minerallac Electric Co. 535,482, Dec. 26; Serial No. 581,201.
Potassium guiacol-sulfonate. The Hoffmann-La Roche Chemical Works. 80,717, re-renewed Jan. 24, 1951. O. G. Dec. 26.
Procaine penicillin G, Preparation of. Premo Pharmaceutical Laboratories, Inc. 535,399, Dec. 26; Serial No. 586,255, published Sept. 12, 1950.
Product having antiseptical properties. The Hoffmann-La Roche Chemical Works. 80,719, re-renewed Jan. 24, 1951. O. G. Dec. 26.

CLASS 19

Mountings, Seat, seat suspensions and seats, etc. Bostrom Manufacturing Company. 535,483, Dec. 26; Serial No. 583,856.

CLASS 21

Antenna, Radio. Motorola, Inc. 535,305, Dec. 26; Serial No. 577,065, published Oct. 10, 1950.
Automotive electrical system parts. C. E. Niehoff & Co. 535,333, Dec. 26; Serial No. 581,972, published Sept. 26, 1950.
Batteries, Storage. Richfield Oil Corporation. 535,331, Dec. 26; Serial No. 581,897, published Oct. 10, 1950.
Clamps, Cable, cable clips, cable dogs, etc. Star Expansion Bolt Company. 80,684, re-renewed Jan. 17, 1951. O. G. Dec. 26.
Component parts of radio communication receivers and transmitters. James Millen Manufacturing Company, Inc. 535,143, Dec. 26; Serial No. 530,667, published Oct. 10, 1950.
Control means, Automatic, for electric power supply units. Cornell-Dubilier Electric Corporation. 535,364, Dec. 26; Serial No. 584,321, published Sept. 26, 1950.
Cord holders, Electric flatiron. L. Johnson. 535,415, Dec. 26; Serial No. 587,440, published Oct. 10, 1950.
Cords, Electrical, wires and cables, etc. National Automotive Parts Association. 535,474, Dec. 26; Serial No. 574,452, published Oct. 10, 1950.
Cut outs, Electric, etc. Heinemann Electric Company. 535,231, Dec. 26; Serial No. 561,463, published Sept. 26, 1950.
Deodorizer. Y & Y Deodorizer Co. 535,345, Dec. 26; Serial No. 582,715, published Sept. 26, 1950.
Dish washers, Electrically operated. Cory Corporation. 535,454, Dec. 26; Serial No. 589,772, published Sept. 26, 1950.
Dry cells for flashlights and dry cell batteries. Ray-O-Vac Company. 535,347, Dec. 26; Serial Nos. 582,857–60, published Oct. 10, 1950.
Electrical apparatus. Associated Lighting Service. 535,361, Dec. 26; Serial No. 583,906, published Oct. 10, 1950.
Electrical goods. Alcor Manufacturing Company. 535,140, Dec. 26; Serial No. 530,049, published Oct. 10, 1950.
Flashlight cases. Juliana Export and Import Corp. 535,363, Dec. 26; Serial No. 584,122, published Oct. 3, 1950.
Flash lights, Electric. Bond Electric Corporation. 279,344, renewed Jan. 13, 1951. O. G. Dec. 26.
Generators, Electric, motors and transformers. Telefonaktiebolaget L. M. Ericsson. 415,574, Aug. 7, 1945. Amended. O. G. Dec. 26.
Lamps, Electric floor and table. P. C. Calisi. 535,289, Dec. 26; Serial No. 573,471, published Oct. 10, 1950.
Lamps, Electric floor and table. Clover Lamp Co., Inc. 535,413, Dec. 26; Serial No. 587,074, published Sept. 26, 1950.
Lamps, Incandescent and fluorescent. Duro-Test Corporation. 535,209, Dec. 26; Serial No. 557,736, published Sept. 26, 1950.
Lamps, Pin-up electric wall. Hunter Douglas Corporation. 535,393, Dec. 26; Serial No. 586,085, published Oct. 10, 1950.
Light sensitive cells. Weston Electrical Instrument Corporation. 535,434, Dec. 26; Serial No. 588,722, published Sept. 26, 1950.
Motors, Electric. Howell Electric Motors Company. 535,326, Dec. 26; Serial No. 581,131, published Oct. 10, 1950.
Phonograph pickups, Electric. Lindberg Instrument Co. 535,386, Dec. 26; Serial No. 585,801, published Sept. 26, 1950.
Photo-electric cells, cathode ray tubes, and radio and television receiving and transmitting apparatus. Cinema-Television Limited. 535,442, Dec. 26; Serial No. 588,995, published Sept. 26, 1950.
Receiving set, Built in wall radio. Wallmaster Radios, Inc. 535,285, Dec. 26; Serial No. 572,786, published Sept. 26, 1950.
Receiving sets, Radio, and parts thereof. Galvin Manufacturing Corporation. 275,837, renewed Sept. 30, 1950. O. G. Dec. 26.
Receiving sets, Radio, radio tubes, and electric vacuum cleaners. Gamble-Skogmo, Inc. 535,396, Dec. 26; Serial No. 586,225, published Sept. 26, 1950.
Relays, Locking, and electrical apparatus for operating same. Johnson Fare Box Company. 535,256, Dec. 26; Serial No. 566,942, published Sept. 26, 1950.
Rubber parts, Hard, of telephone receivers or transmitters, etc. Pirelli Societa per Azioni. 535,274, Dec. 26; Serial No. 571,686, published Sept. 26, 1950.
Signals, Electrical warning, radio receivers, radio-phonograph combinations, etc. The Sparks-Withington Company. 535,247, Dec. 26; Serial No. 564,843, published Oct. 10, 1950.
Sleevings, Electrical. Providence Braid Company. 535,309, Dec. 26; Serial No. 577,591, published Oct. 10, 1950.

Switches, Electric, and electric relay controls. Cook Electric Company. 535,280, Dec. 26; Serial No. 572,486, published Oct. 10, 1950.
Wires and cables, Insulated electric. Essex Wire Corporation. 535,200, Dec. 26; Serial No. 555,090, published Sept. 26, 1950.

CLASS 22

Amusement devices. The Gar-Mar Company. 535,277, Dec. 26; Serial No. 571,857, published Sept. 19, 1950.
Archery bows. Park Tool & Die Co. 535,303, Dec. 26; Serial No. 577,009, published Sept. 19, 1950.
Bicycles, Children's or sidewalk, and children's scooters, etc. Aldens, Inc. 535,245, Dec. 26; Serial No. 564,421, published Sept. 12, 1950.
Bingo boards. Moore & Hansen. 535,239, Dec. 26; Serial No. 563,486, published Sept. 12, 1950.
Dolls, Dressed. Ruth Gibbs, Inc. 535,226, Dec. 26; Serial No. 560,692, published Sept. 19, 1950.
Fish lure, Artificial. Pimcor, Inc. 535,194, Dec. 26; Serial No. 552,288, published Sept. 19, 1950.
Fishing reels. Langley Corporation. 535,215, Dec. 26; Serial No. 558,657, published Sept. 12, 1950.
Golf bag, Combined, cart, and chair. E. L. Payne. 535,353, Dec. 26; Serial No. 583,114, published Sept. 12, 1950.
Golf balls. Mercantile Stores Company, Inc. 535,244, Dec. 26; Serial No. 564,209, published Oct. 3, 1950.
Live bait buckets. The Tesco Corporation. 535,409, Dec. 26; Serial No. 586,946, published Sept. 19, 1950.
Miniature farm implements. AVCO Manufacturing Corporation. 535,306, Dec. 26; Serial No. 584,382, published Sept. 12, 1950.
Racquet strings and fishing leader materials. Reelon Corporation. 535,251, Dec. 26; Serial No. 565,813, published Sept. 12, 1950.
Sleeping bags. J. H. Weiss. 535,236, Dec. 26; Serial No. 561,962, published Sept. 12, 1950.
Toy dump truck. Louis Marx & Company, Inc. 535,380, Dec. 26; Serial No. 585,291, published Sept. 12, 1950.
Toy, Educational. A. Hooper. 535,313, Dec. 26; Serial No. 578,594, published Sept. 12, 1950.
Toy savings bank, Combination, and action toy. Crest Specialties. 535,372, Dec. 26; Serial No. 584,895, published Sept. 19, 1950.
Toy scales. Al-Vern Corporation. 535,243, Dec. 26; Serial No. 564,179, published Sept. 19, 1950.
Toys, Plastic. Doughboy Industries, Inc. 535,230, Dec. 26; Serial No. 561,450, published Sept. 12, 1950.
Toys, Wheeled mechanical, sand boxes, scooters, etc. The May Department Stores Company. 535,292, Dec. 26; Serial No. 574,438, published Sept. 12, 1950.

CLASS 23

Abrading, grinding, and lapping machines and attachments therefor, etc. Norton Company. 535,295, Dec. 26; Serial No. 574,723, published Sept. 12, 1950.
Agricultural implements, Mechanically operated. Gamble-Skogmo, Inc. 535,358, Dec. 26; Serial No. 583,422, published Sept. 12, 1950.
Air blast machine. A. R. Nisbet & Sons. 535,407, Dec. 26; Serial No. 586,649, published Sept. 12, 1950.
Apparatus for the treatment of solids suspended in liquids. The Dorr Company. 535,170, Dec. 26; Serial No. 542,739, published Sept. 5, 1950.
Bakery equipment. Consolidated Equipment Company, Incorporated. 444,369, Dec. 26; Serial No. 513,877, published Sept. 19, 1950.
Bar utensil, Combination. G. M. Co Manufacturing Inc. 535,457, Dec. 26; Serial No. 590,975, published Aug. 22, 1950.
Bearings, Cam shaft. Dura-Bond Bearing Company. 535,324, Dec. 26; Serial No. 580,355, published Aug. 29, 1950.
Cleaners, Air, and crank-case breathers. Vortox Manufacturing Company. 272,928, renewed July 15, 1950. O. G. Dec. 26.
Compressors, Air. Gilbert & Barker Manufacturing Company. 535,344, Dec. 26; Serial No. 582,613, published Sept. 12, 1950.
Concrete products machinery. Gene Olsen Corporation. 535,287, Dec. 26; Serial No. 572,915, published Aug. 29, 1950.
Dispensers, Tape. Dage, Inc. 535,233, Dec. 26; Serial No. 561,808, published Aug. 29, 1950.
Drills, Brick and stone, pipe drills, extension drills, etc. Star Expansion Bolt Company. 80,446, re-renewed Dec. 20, 1950. O. G. Dec. 26.
Duplicating, mimeographing and similar machines. Goldsmith Bros. 535,462, Dec. 26; Serial No. 597,271, published Sept. 19, 1950.
Fire extinguisher, Hand. Tel-O-Post Company. 535,173, Dec. 26; Serial No. 543,337, published Sept. 19, 1950.
Handles for hand and power mowers. The Eclipse Lawn Mower Co. 535,257, Dec. 26; Serial No. 567,112, published Aug. 22, 1950.
Heddle frames, heddles, twine harnesses, etc. Emmons Loom Harness Co. 535,149, Dec. 26; Serial No. 535,836, published Aug. 22, 1950.
Lathe centers. L. F. Treichler. 535,369, Dec. 26; Serial No. 584,515, published Sept. 19, 1950.
Lawn mowers. The E. T. Rugg Company. 535,212, Dec. 26; Serial No. 558,247, published Sept. 12, 1950.
Lawn tools. The Lewis Engineering and Manufacturing Company. 535,156, Dec. 26; Serial No. 538,152, published July 4, 1950.
Loom reeds. Textile Specialty Co., Inc. 278,346, renewed Dec. 16, 1950. O. G. Dec. 26.
Metallic dies. Merriman Bros. Inc. 535,132, Dec. 26; Serial No. 518,243, published Oct. 25, 1949.
Plows and parts thereof. The Oliver Corporation. 444,371, Dec. 26; Serial No. 515,129, published Sept. 12, 1950.
Presses, Hydraulic laminating. Plastic Laminating Corp. 535,252, Dec. 26; Serial No. 566,099, published Sept. 5, 1950.
Pumps, Liquid. Chain Belt Company. 278,177, Dec. 9, 1930. Amended. O. G. Dec. 26.
Sprayers, Hand-operated compression. H. D. Hudson Manufacturing Company. 535,356, Dec. 26; Serial No. 583,265, published Aug. 29, 1950.
Tractors and cultivators, Engine-powered. Gardeneer, Inc. 444,374, Dec. 26; Serial No. 522,228, published Nov. 8, 1949.
Trucks, Materials-handling. Lewis-Shepard Products, Inc. 535,488, Dec. 26; Serial No. 592,571.
Vending or dispensing machines. Coin operated milk. S. D. Polsen. 535,197, Dec. 26; Serial No. 553,216, published Sept. 12, 1950.

CLASS 24

Covers and pads for ironing machines, etc. Quality Products Company. 535,263, Dec. 26; Serial No. 569,638, published Oct. 10, 1950.
Laundry pad. Arrow Manufacturing Company. 535,387, Dec. 26; Serial No. 585,823, published Oct. 10, 1950.
Presses, Laundry. The Unipress Company, Incorporated. 535,428, Dec. 26; Serial No. 588,484, published Oct. 10, 1950.
Washing machines, Domestic clothes, clothes ironers, and mechanical clothes driers. G. M. Gibson. 535,261, Dec. 26; Serial No. 569,151, published Oct. 10, 1950.
Washing machines, driers, ironers, etc. Easy Washing Machine Corporation. 535,420, Dec. 26; Serial No. 587,856, published Oct. 10, 1950.

CLASS 25

Catches, Friction, and master keys. E. H. Tate Company. 535,338, Dec. 26; Serial No. 582,373, published Aug. 29, 1950.
Locks. V. M. Carter. 535,260, Dec. 26; Serial No. 568,238, published Dec. 20, 1949.
Locks and keys. The Yale & Towne Manufacturing Co. 535,157, Dec. 26; Serial No. 538,220, published Sept. 26, 1950.
Locks, latches, parts to door locks, etc. National Brass Company. 444,366, Dec. 26; Serial No. 498,439, published Aug. 29, 1950.
Locksets and keys therefor. Kwikset Locks, Inc. 535,340, Dec. 26; Serial No. 582,486, published Sept. 26, 1950.

CLASS 26

Gauge glasses, water columns, and water gauges. Diamond Power Specialty Corporation. 279,300, renewed Jan. 13, 1951. O. G. Dec. 26.

CLASS 27

Clocks, Electric. Hammond Instrument Company. 535,455, Dec. 26; Serial No. 590,156, published Oct. 3, 1950.
Watches. Chalet Swiss Watch & Jewelry Company. 535,304, Dec. 26; Serial No. 577,039, published Oct. 3, 1950.
Watches, watch movements, and watchcases. Elgin National Watch Company. 279,198, renewed Jan. 13, 1951. O. G. Dec. 26.
Watches, watch movements, and watchcases. Elgin National Watch Company. 279,203–13, renewed Jan. 13, 1951. O. G. Dec. 26.
Watches, watch movements, and watchcases. Elgin National Watch Company. 279,254–5, renewed Jan. 13, 1951. O. G. Dec. 26.

CLASS 28

Bracelets, wrist watch bracelets. Bruner-Ritter, Inc. 535,339, Dec. 26; Serial No. 582,410, published Oct. 3, 1950.
Earrings. Hattie Carnegie, Inc. 535,405, Dec. 26; Serial No. 586,467, published Oct. 3, 1950.
Inserts for jewelry, Decorative. Rochester Button Company. 535,437–8, Dec. 26; Serial Nos. 588,812–13, published Oct. 10, 1950.
Jewelry, Costume. Ingenue, Inc. 444,368, Dec. 26; Serial No. 511,222, published Oct. 3, 1950.
Jewelry, Pearl. J. J. Boutross. 535,258, Dec. 26; Serial No. 567,753, published Oct. 3, 1950.
Jewelry, Pearl. Joseph H. Meyer Bros. 535,445, Dec. 26; Serial No. 589,163, published Oct. 10, 1950.
Knives, forks, spoons, etc., Silverplated and sterling silver. M. H. Storch. 535,484–5, Dec. 26; Serial Nos. 588,328–9.
Knives, forks, spoons, etc., Silverplated and sterling silver. M. H. Storch. 535,486, Dec. 26; Serial No. 588,331.
Knives, Table, forks, and spoons, etc. Marshall Field & Company. 535,430, Dec. 26; Serial No. 588,501, published Oct. 3, 1950.

Necklaces, Pearl, pearl earrings, pearl bracelets, etc. Weinreich Brothers Company. 535,376, Dec. 26; Serial No. 585,003, published Oct. 10, 1950.
Rings, Finger. A. Hirsch Company. 535,394, Dec. 26; Serial No. 586,163, published Oct. 10, 1950.
Rings, Finger. J. R. Woods & Sons, Inc. 535,416, Dec. 26; Serial No. 587,517, published Oct. 3, 1950.
Tableware, Silverplated flat. Oneida Ltd. 535,418, Dec. 26; Serial No. 587,741, published Oct. 3, 1950.
Tableware, Silverplated flat and hollow. Oneida Ltd. 535,450, Dec. 26; Serial No. 589,523, published Oct. 10, 1950.

CLASS 31

Base exchange water treatment apparatus, water filters and parts thereof. Red Jacket Manufacturing Co. 535,433, Dec. 26; Serial No. 588,708, published Sept. 19, 1950.
Capillary tube and strainer combination for refrigerators. Wagner Tool & Supply Corp. 535,395, Dec. 26; Serial No. 586,212, published Sept. 19, 1950.
Cooler, Milk. Globe Milker Company. 535,431, Dec. 26; Serial No. 588,576, published Sept. 19, 1950.
Coolers, Milk. Wilson Cabinet Co., Inc. 535,403, Dec. 26; Serial No. 586,448, published Aug. 15, 1950.
Filters, Pressure type, for clarifying liquids. Bowser, Inc. 535,311, Dec. 26; Serial No. 577,938, published Sept. 19, 1950.
Freezers, Hand and motor driven non-commercial ice cream. Sears, Roebuck and Co. 535,440, Dec. 26; Serial No. 588,898, published Sept. 19, 1950.
Ice trays. Bridgeport Moulded Products, Inc. 535,343, Dec. 26; Serial No. 582,596, published Jan. 3, 1950.
Ice trays. Bridgeport Moulded Products, Inc. 535,377, Dec. 26; Serial No. 585,041, published Jan. 3, 1950.
Refrigerators. Apex Refrigerator Sales Corp. 535,362, Dec. 26; Serial No. 583,979, published Sept. 12, 1950.

CLASS 35

Gaskets. Victor Manufacturing & Gasket Co. 278,814, renewed Dec. 30, 1950. O. G. Dec. 26.

CLASS 37

Binders. The American Binder Company, Inc. 535,359, Dec. 26; Serial No. 583,633, published Oct. 3, 1950.
Calendars, Desk. C. N. Cross. 535,275–6, Dec. 26; Serial Nos. 571,793–4, published Sept. 26, 1950.
Charts, Manually adjustable indicia. Motivation Charts Inc. 535,186, Dec. 26; Serial No. 540,085, published Sept. 26, 1950.
Cleansing tissue. Butler Brothers. 535,412, Dec. 26; Serial No. 587,013, published Sept. 5, 1950.
Envelopes, Mailing, and pocket labels. Gaw-O'Hara Envelope Co. 535,221, Dec. 26; Serial No. 559,472, published Oct. 3, 1950.
Envelopes, Mailing, file folders, and file pockets. Ames Safety Envelope Company. 535,167, Dec. 26; Serial No. 542,066, published Sept. 26, 1950.
Holders, Tape and label, moisteners and activators, etc. Nashua Gummed and Coated Paper Company. 535,163, Dec. 26; Serial No. 540,551, published Sept. 5, 1950.
Holders, Tape and label, moisteners and activators, etc. Nashua Gummed and Coated Paper Company. 535,164, Dec. 26; Serial No. 540,553, published Sept. 5, 1950.
Labels, Price marking. The Monarch Marking System Company. 535,448, Dec. 26; Serial No. 589,359, published Sept. 19, 1950.
Leaflets, Blank and partially printed, for loose leaf binders, order pad covers, etc. The Heinn Company. 535,198, Dec. 26; Serial No. 553,700, published Sept. 26, 1950.
Napkins, Paper. American Lace Paper Company. 535,180, Dec. 26; Serial No. 545,933, published Aug. 22, 1950.
Napkins, Paper. Fort Howard Paper Company. 535,307, Dec. 26; Serial No. 577,428, published Oct. 3, 1950.
Napkins, Paper, paper towels, waxed paper and toilet tissue. The Diamond Match Company. 535,452, Dec. 26; Serial No. 589,651, published Sept. 26, 1950.
Notebook fillers, Loose-leaf, composition books, wire bound books, etc. Montag Brothers, Inc. 535,398, Dec. 26; Serial No. 586,250, published Sept. 26, 1950.
Note paper. A. S. Cooper. 535,382, Dec. 26; Serial No. 585,569, published Sept. 19, 1950.
Paper. Shapiro Paper Corporation. 535,373, Dec. 26; Serial No. 584,926, published Sept. 5, 1950.
Paper, and mailing and correspondence envelopes. H. P. Andrews Paper Company. 535,185, Dec. 26; Serial No. 548,710, published Sept. 12, 1950.
Paper bands. Fas-Cash System, Inc. 444,370, Dec. 26; Serial No. 514,335, published Sept. 5, 1950.
Paper, Bond. Groveton Papers Company. 535,249–50, Dec. 26; Serial Nos. 565,620–1, published Sept. 5, 1950.
Paper, Corrugated. The Hinde & Dauch Paper Company. 535,308, Dec. 26; Serial No. 577,531, published Oct. 3, 1950.
Paper, Corrugated wrapping. Sherman Paper Products Corporation. 535,453, Dec. 26; Serial No. 589,747, published Sept. 26, 1950.
Paper, Index-bristol. American Writing Paper Corporation. 535,154, Dec. 26; Serial No. 537,395, published Sept. 26, 1950.
Paper, Kraft wrapping. Southern Advance Bag & Paper Co. Inc. 535,281, Dec. 26; Serial No. 572,524, published Sept. 26, 1950.
Paper, Laminated, in sheet or roll form. Westfield River Paper Co., Inc. 535,322, Dec. 26; Serial No. 580,110, published Sept. 5, 1950.
Paper, Loose leaf and bound book. National Blank Book Company. 535,187, Dec. 26; Serial No. 549,649, published Sept. 12, 1950.
Paper office supplies, Various. Ennis Tag & Salesbook Company. 535,229, Dec. 26; Serial No. 561,302, published Sept. 5, 1950.
Paper products. Northern Paper Mills. 535,423, Dec. 26; Serial No. 588,041, published Sept. 12, 1950.
Paper rolls, Waterproof, greaseproof paper rolls, etc. Protective Papers, Inc. 535,153, Dec. 26; Serial No. 537,356, published Sept. 19, 1950.
Paper sheets, Bond, ledger, mimeograph and duplicator. Monadnock Paper Mills, Inc. 535,439, Dec. 26; Serial No. 588,875, published Sept. 19, 1950.
Paper, Toilet. Leonard Tissue Corp. 535,400, Dec. 26; Serial No. 586,291, published Sept. 5, 1950.
Paper, Tympan overlay. Rapid Roller Co. 535,165, Dec. 26; Serial No. 541,708, published Oct. 3, 1950.
Paper, Writing, and envelopes. Old Colony Envelope Company. 535,424–6, Dec. 26; Serial Nos. 588,181–3, published Sept. 5, 1950.
Paper, Writing and ledger. Hurlbut Paper Company. 535,189, Dec. 26; Serial No. 551,177, published Sept. 12, 1950.
Paper, Writing, typewriter paper, stencil sheets, etc. Kores Carbon Paper & Ribbons Mfg. Corporation. 535,337, Dec. 26; Serial No. 582,230, published Oct. 3, 1950.
Papers, Fancy-printed and embossed, paper box covers, and paper wraps. C. H. Forsman Company. 535,136, Dec. 26; Serial No. 523,464, published Sept. 12, 1950.
Papers, Text and cover. Curtis Paper Company. 535,150, Dec. 26; Serial No. 536,502, published Sept. 5, 1950.
Pen points. Radiant Pen Corp. 535,436, Dec. 26; Serial No. 588,770, published Oct. 3, 1950.
Pens, Fountain. Universal Fountain Pen & Pencil Co. 535,328–9, Dec. 26; Serial Nos. 581,509–10, published Sept. 5, 1950.
Pens, Fountain, ball pens, and mechanical pencils. Penguin Pens, Inc. 535,158, Dec. 26; Serial No. 539,077, published Sept. 26, 1950.
Record and account book, Dentists'. Colwell Publishing Company. 535,171, Dec. 26; Serial No. 542,747, published Sept. 26, 1950.
Stationery, Partially printed. The Hamilton Autographic Register Co. 535,182, Dec. 26; Serial No. 547,380, published Sept. 5, 1950.
Stationery, Printed. A. & A. W. Ehmling. 535,211, Dec. 26; Serial No. 558,020, published Sept. 26, 1950.
Tablets, Paper. Western Tablet & Stationery Corporation. 444,376, Dec. 26; Serial No. 526,136, published Oct. 3, 1950.
Tickets, Scale. Printing Supply Corporation. 535,421, Dec. 26; Serial No. 587,912, published Sept. 5, 1950.
Tissue, Toilet, and paper towels. The Diamond Match Company. 535,427, Dec. 26; Serial No. 588,281, published Sept. 26, 1950.
Towels, Paper. Crown Zellerbach Corporation. 535,137, Dec. 26; Serial No. 527,128, published Aug. 22, 1950.
Towels, Paper. Crown Zellerbach Corporation. 535,346, Dec. 26; Serial No. 582,723, published Sept. 5, 1950.
Wallpaper. United Wallpaper, Inc. 535,205, Dec. 26; Serial No. 556,298, published Sept. 26, 1950.
Wallpaper and borders. United Wallpaper, Inc. 535,145, Dec. 26; Serial No. 534,068, published Sept. 5, 1950.

CLASS 38

Publications, Periodical. McQuay-Norris Manufacturing Company. 276,473, renewed Oct. 21, 1950. O. G. Dec. 26.

CLASS 39

Berets, Ladies' and men's. Oceana Imports Inc. 535,357, Dec. 26; Serial No. 583,280, published Sept. 5, 1950.
Blouses and skirts and knitted clothing, Women's and children's. Murdoch Hillson Limited. 535,411, Dec. 26; Serial No. 586,984, published Oct. 10, 1950.
Brassières. Miriam Gates, Incorporated. 535,370, Dec. 26; Serial No. 584,616, published Oct. 10, 1950.
Caps, Bathing. Pretty Products, Inc. 535,401, Dec. 26; Serial No. 586,309, published Sept. 12, 1950.
Chemises, princess slips, bloomers, etc., Ladies' and children's. I. Schneierson & Sons, Inc. 535,417, Dec. 26; Serial No. 587,655, published Oct. 10, 1950.
Clothes, Men's. P. Feinstein & Sons. 268,390, renewed Mar. 11, 1950. O. G. Dec. 26.
Clothes, Men's. P. Feinstein & Sons. 270,186–7, renewed Apr. 29, 1950. O. G. Dec. 26.
Clothes, Men's. P. Feinstein & Sons. 276,261, renewed Oct. 14, 1950. O. G. Dec. 26.
Collars, negligee and dress shirts, etc. Carmi-Feature Underwear, Incorporated. 535,162, Dec. 26; Serial No. 540,520, published Sept. 12, 1950.
Dresses. Max Wiesen & Sons Co., Inc. 535,241, Dec. 26; Serial No. 563,962, published Sept. 12, 1950.
Dresses, coats, suits, hats, Women's, etc. The Tailored Woman, Inc. 378,025, May 21, 1940. Republished Dec. 26.

Frocks, blouses, suits, etc., Women's and children's. Tootal Broadhurst Lee Co. Limited. 535,188, Dec. 26; Serial No. 550,967, published Sept. 12, 1950.
Girdles. Lily of France, Inc. 535,460, Dec. 26; Serial No. 591,424, published Oct. 3, 1950.
Gloves. The Pioneer Rubber Company. 535,390; Dec. 26; Serial No. 585,859, published Oct. 10, 1950.
Gloves, Ladies' cotton work. Good Luck Glove Company. 535,461, Dec. 26; Serial No. 592,996, published Oct. 10, 1950.
Gloves, Leather. Albert Jonquet. 535,368, Dec. 26; Serial No. 584,457, published Sept. 19, 1950.
Hats and caps. John B. Stetson Company. 535,408, Dec. 26; Serial No. 586,711, published Sept. 12, 1950.
Hats and caps; leather gloves, fabric gloves, etc. Dobbs & Co. 279,576, renewed Jan. 20, 1951. O. G. Dec. 26.
Hats for women. Dobbs & Co. 280,522, renewed Feb. 17, 1951. O. G. Dec. 26.
Hats, Men's. The Frank H. Lee Company. 535,384, Dec. 26; Serial No. 585,755, published Sept. 5, 1950.
Hosiery. Textile Distributors, Inc. 535,410, Dec. 26; Serial No. 586,947, published Sept. 26, 1950.
Lingerie. Symphony Lingerie Co., Inc. 535,240, Dec. 26; Serial No. 563,644, published Sept. 26, 1950.
Neckties, Men's, women's and children's. Dimple Tie Corporation. 535,388, Dec. 26; Serial No. 585,835, published Sept. 5, 1950.
Pants, Rubber baby, rubber aprons and bibs, and rubber and rubberized rain garments. Archer Rubber Company. 535,191, Dec. 26; Serial No. 551,676, published Aug. 29, 1950.
Pants, Rubber baby, rubber aprons, and bibs, and rubber and rubberized rain garments. Archer Rubber Company. 535,192, Dec. 26; Serial No. 551,678, published Aug. 29, 1950.
Shirts. Cooper's, Incorporated. 535,341, Dec. 26; Serial No. 582,520, published Sept. 5, 1950.
Shirts, Men's sport and dress, and sport jackets. Mal Marshall, Inc. 535,389, Dec. 26; Serial No. 585,854, published Sept. 5, 1950.
Shoes, Men's, women's, and children's. The Julian & Kokenge Company. 279,689, renewed Jan. 20, 1951. O. G. Dec. 26.
Shoes, Men's, women's, and children's. The Julian & Kokenge Company. 279,695, renewed Jan. 20, 1951. O. G. Dec. 26.
Slips and nightgowns, Ladies' and misses'. Du Benay Undergarment, Inc. 535,147, Dec. 26; Serial No. 534,884, published Dec. 21, 1948.
Underwear, Men's. Lewis Knitting Company. 535,248, Dec. 26; Serial No. 565,192, published Sept. 19, 1950.
Wearing apparel, Children's. Aldens, Inc. 535,404, Dec. 26; Serial No. 586,453, published Sept. 12, 1950.

CLASS 40

Needles, bodkins, crochet hooks, etc. Henry Wilkes & Co., Limited. 276,533, renewed Oct. 21, 1950. O. G. Dec. 26.
Sewing-needles, Hand. The Singer Manufacturing Company. 79,937, re-renewed Oct. 18, 1950. O. G. Dec. 26.

CLASS 41

Canes, umbrellas, etc. Dobbs & Co. 279,378, renewed Jan. 13, 1951. O. G. Dec. 26.

CLASS 42

Blankets and rugs. Wormalds & Walker Limited. 535,223, Dec. 26; Serial No. 560,243, published Sept. 19, 1950.
Carpets and rugs, Textile. The Magee Carpet Company. 535,133, Dec. 26; Serial No. 519,280, published Sept. 19, 1950.
Comforters. American Feather Products. 535,204, Dec. 26; Serial No. 556,050, published Sept. 19, 1950.
Crib blankets. Beacon Manufacturing Company. 535,232, Dec. 26; Serial No. 561,796, published Sept. 19, 1950.
Dish cloths. Granite Looms, Inc. 535,321, Dec. 26; Serial No. 580,060, published Sept. 19, 1950.
Draperies and fabric wall coverings. Trimz Company, Inc. 535,225, Dec. 26; Serial No. 560,505, published Sept. 12, 1950.
Fabrics, Corduroy. Crompton Company. 535,172, Dec. 26; Serial No. 542,107, published Sept. 19, 1950.
Fabrics made wholly or partially of cellulose derivatives. Celanese Corporation of America. 280,954, renewed Mar. 3, 1951. O. G. Dec. 26.
Fabrics of silk, wool, cotton, etc. Stanley H. Goldsmith, Inc. 535,267, Dec. 26; Serial No. 570,848, published Sept. 19, 1950.
Fabrics, Textile. Peerless Mills Co. of New York, Inc. 535,265, Dec. 26; Serial No. 570,716, published Sept. 19, 1950.
Fabrics, Textile. Peerless Mills Co. of New York, Inc. 535,268, Dec. 26; Serial No. 570,881, published Sept. 19, 1950.
Fabrics, Textile, in the piece. Peerless Mills Co. of New York, Inc. 535,266, Dec. 26; Serial No. 570,717, published Sept. 20, 1949.
Fabrics, Woolen and worsted textile. William A. Landry. 535,323, Dec. 26; Serial No. 580,248, published Sept. 19, 1950.
Films, Decorated and printed plastic. Velveray Corporation. 535,271–2, Dec. 26; Serial Nos. 571,473–4, published Sept. 19, 1950.
Piece goods. Reeves Brothers, Inc. 535,456, Dec. 26; Serial No. 590,913, published Aug. 29, 1950.
Piece goods. A. Steinam Company, Inc. 535,246, Dec. 26; Serial No. 564,471, published Sept. 19, 1950.
Piece goods, Cotton and linen. Trippe Barker & Company. 81,180, re-renewed Mar. 7, 1951. O. G. Dec. 26.
Piece goods, Rayon gabardine. Greenwood Mills, Inc. 535,319, Dec. 26; Serial No. 579,929, published Sept. 19, 1950.
Piece goods, table cloths, table napkins, etc. William Ewart & Son Limited. 535,302, Dec. 26; Serial No. 576,322, published Sept. 19, 1950.
Piece goods, Textile. Ely & Walker Dry Goods Company. 535,168, Dec. 26; Serial No. 542,297, published Sept. 19, 1950.
Piece goods, Woolen. Forstmann & Huffmann Company. 274,900, renewed Sept. 9, 1950. O. G. Dec. 26.
Plastic film in rolls or pieces, etc. The Barr Company. 535,262, Dec. 26; Serial No. 569,589, published Sept. 19, 1950.
Ribbons, Textile. Wasserstein Brothers. 444,375, Dec. 26; Serial No. 525,993, published Sept. 19, 1950.
Rugs, Braided. Troy Yarn & Textile Co. 535,273, Dec. 26; Serial No. 571,587, published Sept. 19, 1950.
Sheeting, Waterproof, and shower curtains. The Stork Company. 535,228, Dec. 26; Serial No. 561,269, published Sept. 19, 1950.
Table cloths, napkins, runners, etc. James G. Hardy & Co., Inc. 535,155, Dec. 26; Serial No. 537,586, published Sept. 19, 1950.

CLASS 43

Yarns or threads. Celanese Corporation of America. 280,068, renewed Feb. 10, 1951. O. G. Dec. 26.
Yarns or threads. Celanese Corporation of America. 280,953, renewed Mar. 3, 1951. O. G. Dec. 26.

CLASS 44

Atomizers, breast-pipes, breast-pumps, etc. Davol Rubber Company. 535,127, Dec. 26; Serial No. 502,063, published Sept. 19, 1950.
Bandage gauze. Parke, Davis & Company. 535,475, Dec. 26; Serial No. 521,923.
Bottle teats, Feeding, teething pads, teething soothers and teething rings, etc. J. G. Ingram & Son Limited. 535,476, Dec. 26; Serial No. 545,854.
Chemical test set. Westerfield Pharmacal Co. Inc. 535,374, Dec. 26; Serial No. 584,938, published Aug. 15, 1950.
Kit containing hygienic and prophylactic medical articles. Holland-Rantos Company, Inc. 531,925, Oct. 10, 1950. Corrected. O. G. Dec. 26.
Pads, Corn, bunion, and callus. The Kendall Company. 535,367, Dec. 26; Serial No. 584,403, published Aug. 15, 1950.
Sterile disposable venoclysis sets. Abbott Laboratories. 535,146, Dec. 26; Serial No. 534,857, published Jan. 13, 1948.
Syringe, Vaginal douche. Mam-Zelle Corporation. 535,375, Dec. 26; Serial No. 584,952, published Aug. 15, 1950.
Underpads, Fibrous absorbent protective. Johnson & Johnson. 535,378, Dec. 26; Serial No. 585,123, published Aug. 15, 1950.

CLASS 45

Beverages, Non-alcoholic maltless. Beverage Distributors, Inc. 535,152, Dec. 26; Serial No. 537,283, published Aug. 15, 1950.
Beverages, Non-alcoholic maltless. Big Top Beverages, Inc. 535,371, Dec. 26; Serial No. 584,891, published Aug. 22, 1950.
Beverages, Non-alcoholic, maltless. H. Sachs. 535,183, Dec. 26; Serial No. 547,841, published Aug. 22, 1950.
Beverage, Non-alcoholic, uncarbonated and maltless. Canadian Food Products Limited. 535,255, Dec. 26; Serial No. 566,378, published Sept. 26, 1950.
Carbonated water. The Shasta Water Company. 535,278, Dec. 26; Serial No. 571,937, published Aug. 29, 1950.
Extract, and soft drinks. E. H. Magnus. 535,178, Dec. 26; Serial No. 545,633, published Aug. 15, 1950.
Imitation flavor concentrates. The Perfection Company, Ltd. 535,203, Dec. 26; Serial No. 555,443, published Sept. 26, 1950.
Soft drinks, Maltless. R. C. Bellows. 535,435, Dec. 26; Serial No. 588,735, published Oct. 10, 1950.
Soft drinks, Maltless. L. O. Schneeberger. 535,253, Dec. 26; Serial No. 566,247, published Nov. 1, 1949.
Soft drinks, Non-alcoholic maltless carbonated. Sol Lenzner Corporation. 535,131, Dec. 26; Serial No. 518,052, published Oct. 10, 1950.
Soft drinks, Non-alcoholic, maltless, etc. Orange-Crush Company. 535,383, Dec. 26; Serial No. 585,680, published Sept. 26, 1950.

CLASS 46

Alginic acid, sodium alginate, ammonium alginate, etc. Kelco Company. 277,972, Dec. 2, 1930. Republished Dec. 26.

Applesauce, frozen, frozen berries, frozen fruits, etc. Deerfield Packing Corporation. 535,242, Dec. 26; Serial No. 563,990, published July 18, 1950.

Bakery goods, All; confectionery products; and paste products. Bakery and Confectionery Workers' International Union of America. 535,473, Dec. 26; Serial No. 536,036, published Aug. 15, 1950.

Butter and ice cream. Golden State Company, Ltd. 535,330, Dec. 26; Serial No. 581,808, published Aug. 8, 1950.

Cake. Drake Bakeries Incorporated. 535,134, Dec. 26; Serial No. 520,799, published Aug. 15, 1950.

Candy. J. A. Goggin. 535,379, Dec. 6; Serial No. 585,224, published July 18, 1950.

Candy. H. Gonzáles. 535,291, Dec. 26; Serial No. 574,359, published Aug. 15, 1950.

Candy. Charles N. Miller Co. 280,848, renewed Mar. 3, 1951. O. G. Dec. 26.

Candy. Norris Inc. 535,130, Dec. 26; Serial No. 516,163, published July 4, 1950.

Canned corn. Bozeman Canning Company. 406,300, Mar. 21, 1944. Republished Dec. 26.

Canned crabmeat. Bay State Crabmeat Co. 535,286, Dec. 26; Serial No. 572,825, published Aug. 15, 1950.

Canned dog and cat food. Acme Packing Company. 535,354, Dec. 26; Serial No. 583,137, published Aug. 8, 1950.

Canned foods, cocoa, table syrup, etc. S. Kahn's Sons, Inc. 535,284, Dec. 26; Serial No. 572,746, published Aug. 15, 1950.

Canned fruits, canned berries, canned vegetables, etc. Knoebel Mercantile Company. 535,195, Dec. 26; Serial No. 552,667, published Aug. 8, 1950.

Canned fruits, canned vegetables, canned fish, etc. Carpenter Cook Company. 535,299, Dec. 26; Serial No. 575,886, published Aug. 15, 1950.

Canned grapefruit juice. L. F. Drake. 535,160, Dec. 26; Serial No. 539,858, published Aug. 8, 1950.

Canned minestrone soup. Budrell Packers, Inc. 535,327, Dec. 26; Serial No. 581,316, published Oct. 10, 1950.

Canned salmon. The Great Atlantic and Pacific Tea Company. 279,558–9, renewed Jan. 20, 1951. O. G. Dec. 26.

Canned tomatoes. Albert W. Sisk & Son. 535,199, Dec. 26; Serial No. 554,523, published July 11, 1950.

Canned vegetables. Tendersweet Sales Corporation. 535,148, Dec. 26; Serial No. 535,040, published Aug. 8, 1950.

Catsup, honey, alimentary paste, etc. Reeves Parvin & Co. 280,894, renewed Mar. 3, 1951. O. G. Dec. 26.

Chewing gum. H. A. Gasberg. 444,372, Dec. 26; Serial No. 518,398, published Aug. 15, 1950.

Flour, Oat. The Quaker Oats Company. 535,254, Dec. 26; Serial No. 566,279, published Aug. 8, 1950.

Flour, Plain. Sunlight Milling Company. 235,923, Nov. 29, 1927. Restricted. O. G. Dec. 26.

Flour, Rye. Van Dusen Harrington Co. 535,179, Dec. 26; Serial No. 545,672, published Aug. 1, 1950.

Flour, Wheat. The Colorado Milling & Elevator Co. 535,190, Dec. 26; Serial No. 551,242, published Aug. 15, 1950.

Food savoring powders. International Minerals & Chemical Corporation. 535,279, Dec. 26; Serial No. 572,248, published Aug. 15, 1950.

Fruits and nuts, Mixture of. W. W. Wagner. 535,126, Dec. 26; Serial No. 502,045, published Aug. 15, 1950.

Fruits, Dried. Bonner Packing Co. 535,487, Dec. 26; Serial No. 592,013.

Fruits, Fresh deciduous. Newbry & Sons. 278,320, renewed Dec. 16, 1950. O. G. Dec. 26.

Garlic, Fresh and dried. Pacific Produce Company. 535,142, Dec. 26; Serial No. 530,556, published Aug. 8, 1950.

Ham, bacon, lard, skimmed hams, etc. Kohrs Packing Company. 124,394–5, Feb. 11, 1919. Republished Dec. 26.

Honey. The Morey Mercantile Company. 535,166, Dec. 26; Serial No. 542,045, published Aug. 15, 1950.

Mellons, Fresh. Griffin and Busch. 535,207, Dec. 26; Serial No. 557,130, published Aug. 8, 1950.

Milk, Chocolate malt flavored. Maple Island Farm, Inc. 535,458, Dec. 26; Serial No. 591,177, published Oct. 10, 1950.

Milk solids, Highly albuminous non-fat dried. First Spice Mixing Company, Inc. 535,312, Dec. 26; Serial No. 578,579, published Aug. 8, 1950.

Monosodium glutamate. A. E. Staley Manufacturing Company. 535,129, Dec. 26; Serial No. 513,139, published Nov. 29, 1949.

Olive oil. Albert N. Cory, Inc. 444,373, Dec. 26; Serial No. 519,571, published Sept. 6, 1949.

Olives, Plain and stuffed. James P. Smith & Company, Inc. 535,175, Dec. 26; Serial No. 544,616, published Feb. 22, 1949.

Oranges, Fresh. C. H. Withers. 535,184, Dec. 26; Serial No. 548,037, published Aug. 1, 1950.

Popcorn. G. A. Beard. 535,316, Dec. 26; Serial No. 579,164, published Aug. 15, 1950.

Pork, Cured and smoked clear-plate. Kohrs Packing Company. 126,709, Sept. 30, 1919. Republished Dec. 26.

Potatoes, Fresh sweet. Pittsburg Storage Company. 535,360, Dec. 26; Serial No. 583,670, published Aug. 8, 1950.

Salt, Prepared table. International Salt Co., Inc. 535,270, Dec. 26; Serial No. 571,329, published Aug. 8, 1950.

Sandwiches, Prepared; bakery products. White Castle System, Inc. 535,144, Dec. 26; Serial No. 531,402, published Aug. 15, 1950.

Sardines, Spanish bristling sprats, filets of anchovies, etc. Massó Hermanos, S. A. 535,222, Dec. 26; Serial No. 560,212, published July 25, 1950.

Sausage. Kohrs Packing Company. 202,889, Sept. 8, 1925. Republished Dec. 26.

Spices. Furst-McNess Company. 535,135, Dec. 26; Serial No. 522,766, published Aug. 8, 1950.

Vegetables, Fresh. California Vegetable Growers. 535,181, Dec. 26; Serial No. 546,647, published Aug. 1, 1950.

Vegetables, Fresh, and fresh melons. J. Maggio. 535,139, Dec. 26; Serial No. 529,791, published Jan. 31, 1950.

Vegetables, Fresh, and fresh melons. McDonald Vegetable Company. 535,381, Dec. 26; Serial No. 585,292, published Aug. 8, 1950.

CLASS 47

Sake. Kotake Company, Limited. 535,449, Dec. 26; Serial No. 589,452, published Sept. 12, 1950.

Wine. The Brotherhood Corporation. 535,298, Dec. 26; Serial No. 574,817, published Sept. 12, 1950.

Wines. California Growers Wineries Inc. 317,372, Sept. 25, 1934. Republished Dec. 26.

Wine. California Growers Wineries Inc. 335,567, June 9, 1936. Republished Dec. 26.

Wine. California Growers Wineries, Inc. 337,084, July 28, 1936. Republished Dec. 26.

Wines. California Growers Wineries, Inc. 359,652, Aug. 30, 1938. Republished Dec. 26.

Wines. Fruit Industries, Ltd. 535,193, Dec. 26; Serial No. 552,050, published Sept. 12, 1950.

Wines. The Madera Bonded Wine and Liquor Company. 535,432, Dec. 26; Serial No. 588,696, published Sept. 26, 1950.

CLASS 48

Ale. Kuebler Brewing Co., Inc. 535,385, Dec. 26; Serial No. 585,800, published Sept. 26, 1950.

Beer. A. Gettelman Brewing Company. 535,161, Dec. 26; Serial No. 540,186, published Sept. 19, 1950.

Beer. Miller Brewing Company. 535,336, Dec. 26; Serial No. 582,094, published Sept. 19, 1950.

Beer. Oshkosh Brewing Company. 535,202, Dec. 26; Serial No. 555,347, published Aug. 22, 1950.

Beer and ale. F. W. Cook Company, Inc. 535,422, Dec. 26; Serial No. 588,006, published Oct. 10, 1950.

CLASS 49

Beverage, Alcoholic. London & Company, Inc. 535,210, Dec. 26; Serial No. 557,852, published Sept. 12, 1950.

Brandy. California Growers Wineries, Inc. 359,444, Aug. 23, 1938. Republished Dec. 26.

Brandy. De La Salle Institute. 535,342, Dec. 26; Serial No. 582,548, published Sept. 12, 1950.

Brandy. Fruit Industries, Ltd. 535,196, Dec. 26; Serial No. 553,095, published Sept. 26, 1950.

Brandy, Apple. Henry Kelly Importing & Distributing Co. Inc. 535,176, Dec. 26; Serial No. 545,258, published Aug. 15, 1950.

Cordials, Alcoholic, alcoholic liqueurs and flavored gins, etc. Popper-Morson Corp. 535,320, Dec. 26; Serial No. 579,942, published Sept. 19, 1950.

Whiskey. Henry Kelly Importing & Distributing Co. Inc. 535,177, Dec. 26; Serial No. 545,260, published Aug. 15, 1950.

Whiskey. Maryland Distillery, Inc. 365,528, Mar. 14, 1939. Republished Dec. 26.

Whiskey, Scotch. Geeting & Fromm, Inc. 535,355, Dec. 26; Serial No. 583,258, published Sept. 12, 1950.

CLASS 50

Stereotype dry matrices, Prepared. Brooks Paper Company. 535,125, Dec. 26; Serial No. 499,763, published Aug. 29, 1950.

CLASS 51

Bluing and talcum powder. The Styron-Beggs Company. 279,066, renewed Jan. 6, 1951. O. G. Dec. 26.

Foot cream; glycerine; skin lotions; etc. Marlo Products Co. 535,128, Dec. 26; Serial No. 509,858, published Sept. 12, 1950.

Lipstick, face powder, perfume, etc. Consolidated Cosmetics. 535,334, Dec. 26; Serial No. 582,027, published Aug. 1, 1950.

Lotion, Soothing. C. I. Rudinger. 535,481, Dec. 26; Serial No. 579,760.

Perfumes. Leigh Chemist, Inc. 275,470, Sept. 23, 1930. Republished Dec. 26.

Soap, Shave, solidified shave-cream, lather shave-cream, etc. Rawlings International, Inc. 535,141, Dec. 26; Serial No. 530,120, published Mar. 9, 1948.

Toilet preparations, perfumery, and cosmetics. Les Parfums de Dana, Inc. 535,318, Dec. 26; Serial No. 579,875, published Aug. 29, 1950.

CLASS 52

Cleaner. The Cudahy Packing Company. 535,213, Dec. 26; Serial No. 558,364, published Sept. 12, 1950.

Cleaning, cleansing and detergent chemical compounds. Ciba Limited. 535,325, Dec. 26; Serial No. 580,923, published Sept. 19, 1950.

Cleaning soap compound, Dry. Takamine Laboratory, Inc. 535,282, Dec. 26; Serial No. 572,529, published Sept. 12, 1950.

Detergent. Armour and Company. 535,297, Dec. 26; Serial No. 574,807, published Sept. 12, 1950.

Detergent, Inorganic. Diamond Alkali Company. 535,234, Dec. 26; Serial No. 561,892, published Sept. 19, 1950.

Detergent material, Non-saponaceous. Diamond Alkali Company. 535,235, Dec. 26; Serial No. 561,895, published Sept. 12, 1950.

Detergent, Synthetic. C. W. Smith. 535,208, Dec. 26; Serial No. 557,169, published Sept. 19, 1950.

Soap. Colgate-Palmolive-Peet Company. 535,259, Dec. 26; Serial No. 568,096, published Sept. 12, 1950.

Soap and detergent. E. C. Horn. 535,314, Dec. 26; Serial No. 579,101, published Sept. 19, 1950.

Soap, Washing machine. Continental Soap Corporation. 535,335, Dec. 26; Serial No. 582,072, published Sept. 12, 1950.

Washing compound. D. Ingram. 535,477, Dec. 26; Serial No. 553,778.

CLASS 100

Research service. Schwerin Research Corporation. 535,489, Dec. 26; Serial No. 556,131.

Restaurant services. Pick Hotels Corporation. 535,464–5, Dec. 26; Serial Nos. 537,822–3, published Sept. 19, 1950.

CLASS 101

Central billing and collection service. The Boyd System, Incorporated. 535,469, Dec. 26; Serial No. 572,081, published Sept. 26, 1950.

Informational services to the southern pine lumber industry, etc. Southern Pine Association. 535,468, Dec. 26; Serial No. 562,281, published Sept. 26, 1950.

Surveys of merchandise methods, sales personnel analysis, etc. Merit Protective Service, Inc. of Illinois. 535,467, Dec. 26; Serial No 559,038, published Sept. 26, 1950.

CLASS 102

Underwriting of life insurance. Reliance Life Insurance Company of Pittsburgh. 535,466, Dec. 26; Serial No. 540,876, published Oct. 3, 1950.

CLASS 103

Structural restoration and waterproofing of masonry walls. W. H. Walter. 535,472, Dec. 26; Serial No. 586,026, published Oct. 3, 1950.

CLASS 106

Book binding. The Boehm Bindery Company. 535,470, Dec. 26; Serial No. 576,740, published Sept. 26, 1950.

Rendering elastic yarn goods satisfactory for swim suits by special process. Bradford Dyeing Association (U. S. A.). 535,471, Dec. 26; Serial No. 585,213, published Sept. 26, 1950.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Mitchell, Doren.

Camras, Marvin, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology. Neutralizing inductive disturbances in magnetic reproducers. Re. 23,311, Dec. 26.

Chrysler Corporation, assignee: *See*—
Nims, Paul T.

Dyer, Alvin C., Shaker Heights, assignor to The Electric Controller & Manufacturing Co., Cleveland, Ohio. Control means for dynamic braking. Re. 23,312, Dec. 26.

Electric Controller & Manufacturing Co., The, assignee: *See*—
Dyer, Alvin C.

Mitchell, Doren, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. Re. 23,313, Dec. 26.

Nims, Paul T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Generator-motor driving system. Re. 23,314, Dec. 26.

LIST OF DESIGN PATENTEES

Altemiller, Arthur D., Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio. Casing for food serving equipment. 161,299, Dec. 26.

Avco Manufacturing Corporation, assignee: *See*—
Clingman, William H.
Painter, David.
Schladermundt, Peter, and Metzler.

Baldanza, Nicholas T., Rutherford, assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J. Phonograph tone-arm. 161,300, Dec. 26.

Baldanza, Nicholas T., Rutherford, assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J. Phonograph. 161,301, Dec. 26.

Baldwin, Birdie L., Atlanta, Ga. Combination dressing table and chest of drawers. 161,302, Dec. 26.

Bender, Joseph M., Manhasset, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible bracelet or the like. 161,303, Dec. 26.

Berger, Emil J., assignor to Dexdale Hosiery Mills, Lansdale, Pa. Stocking. 161,304, Dec. 26.

Bernstein, Morton M., Manhasset, assignor to Plastikaire Products Inc., Queens Village, N. Y. Inflatable toy figure. 161,305, Dec. 26.

Biehayn, William P., Richmond Hill, assignor to S. W. Farber, Inc., New York, N. Y. Coffee maker. 161,306, Dec. 26.

Bischof Die & Engraving Co., assignee: *See*—
Bischof, John.

Bischof, John, assignor to Bischof Die & Engraving Co., Racine, Wis. Accountant's ruler. 161,307, Dec. 26.

Blue, Lebert E., Montezuma, and V. F. Hodges, Indianapolis, Ind. Amusement car. 161,308, Dec. 26.

Boucher, Marcel, Eltingville, N. Y. Bracelet or similar article. 161,309, Dec. 26.

Brown & Bigelow, assignee: *See*—
De Fee, Le Emmette V.

Brown, Meyer M., New York, N. Y. Pencil or similar article. 161,310, Dec. 26.

Bruner, Marvin J., assignee: *See*—
Ritter, Saul.

Budlong, Robert D., Skokie, Ill., assignor to Wincharger Corporation. Radio cabinet. 161,311, Dec. 26.

Bunin, Ben, River Edge, assignor to Product Design & Mfg. Corp., North Hackensack, N. J. Table top or similar article. 161,312, Dec. 26.

Calvin Corporation, assignee: *See*—
Risom, Jens.

Chereton, Avery B., Detroit, Mich., assignor to Portal Products Corporation, Chicago, Ill. Clock. 161,313, Dec. 26.

Chernow, Michael, New York, N. Y. Link chain for a bracelet or similar article. 161,314, Dec. 26.

Chernow, Michael, New York, N. Y. Jewelry link. 161,315, Dec. 26.

Chipman, Richmond L., Jr., Montclair, N. J. Ring box or similar article. 161,316, Dec. 26.

Clingman, William H., Grand Rapids, Mich., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Television receiver cabinet. 161,317, Dec. 26.

Columbia Protektosite Co., Inc., assignee: *See*—
Baldanza, Nicholas T.

Cooper, Harry L., St. Louis, Mo. Coin savings bank. 161,318, Dec. 26.

Cope, Paul N. and T. L., Santa Ana, Calif. Figurine. 161,319, Dec. 26.

Cope, Theodosia L.: *See*—
Cope, Paul N. and T. L.

Crandell, Frank F., Pasadena, assignor to Photo Research Corporation, San Fernando, Calif. Color temperature meter. 161,320, Dec. 26.

De Fee, Le Emmette V., assignor to Brown & Bigelow, St. Paul, Minn. Combination bottle opener, screw driver, and lid opener. 161,321, Dec. 26.

Dennis, Seymour F., New York, N. Y. Sport shirt. 161,322, Dec. 26.

Dexdale Hosiery Mills, assignee: *See*—
Berger, Emil J.

D'Harlingue, Alfred E., St. Louis, Mo. Utility burner for paint or the like. 161,323, Dec. 26.

Duncan, Roselyn K., Atlanta, Ga. Finger ring. 161,324, Dec. 26.

Eisenberg, Harry, Atlantic City, N. J. Lamp. 161,325, Dec. 26.

Evans, Randolph, Bronxville, N. Y. Combination bathroom unit. 161,326, Dec. 26.

Farber, S. W., Inc., assignee: *See*—
Biehayn, William P.

Freudenberg, Walter, Charleston, S. C. Combination watch stand and jewelry holder. 161,327, Dec. 26.

Freyer, Nathan, assignee: *See*—
Leventhal, Louis.

Friedlob, Fred M., Chicago, Ill. Bicycle engine. 161,328, Dec. 26.

Galter, William R., Chicago, Ill. Soap disk. 161,329, Dec. 26.

Galter, William R., Chicago, Ill. Butter curler. 161,330, Dec. 26.

General Electric Company, assignee: *See*—
Petzold, William B.

Gerdodian, Stevens, Fresno, Calif. Heel and soleplate for shoes. 161,331, Dec. 26.

Goodman, Herbert N., assignor to Triumph Hosiery Mills, Inc., New York, N. Y. Stocking. 161,332, Dec. 26.

Gooken, James B., Corona Del Mar, Calif. Book holder. 161,333, Dec. 26.

Hardman, Rena B., Los Angeles, Calif. Overshoe. 161,334, Dec. 26.

Harling, Donald W., assignor to McGraw Electric Company, Milwaukee, Wis. Street lighting luminaire. 161,335, Dec. 26.

Harris, Harlan N., Los Angeles, Calif. Drawing pen. 161,336, Dec. 26.

Hedrick, Cyril: *See*—
Lett, Robert L., and Hedrick.

Hercules Steel Products Corporation, assignee: *See*—
Altemiller, Arthur D.

Hill, John D., Cleveland, Ohio. Respirator or similar article. 161,337, Dec. 26.

Hobby, Harold E., assignor to Simplex Time Recorder Co., Gardner, Mass. Case for watchman's clock. 161,338, Dec. 26.

Hodges, Verlin F.: *See*—
Blue, Lebert E., and Hodges.

Hueter, Patricia J., Seattle, Wash. Doll. 161,339, Dec. 26.

Hurley, Raymond F., Chicago, Ill. Lighting fixture louvre. 161,340, Dec. 26.

Isard, Howard H., Bell, Calif. Flower holder or similar article. 161,341, Dec. 26.

Jacoby-Bender, Inc., assignee: *See*—
Bender, Joseph M.
Jacoby, Max.

Jacoby, Max, Lawrence, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible bracelet or the like. 161,342, Dec. 26.

Kabase, Frank E., Birmingham, Ala. Broom holder or the like. 161,343, Dec. 26.

Kabase, Frank E., Birmingham, Ala. Broom holder or the like. 161,344, Dec. 26.

Kahn, Joseph, Jr., New York, N. Y. Fabric or the like. 161,345, Dec. 26.
Katz, Max, Fort Worth, Tex. Bed comforter. 161,346, Dec. 26.
Keeler Brass Company, assignee: *See*—
Rettich, Kurt.
Kushner, Max, Brooklyn, N. Y. Lantern. 161,347, Dec. 26.
Lerman, Ben, assignor to Mastercrafters Clock & Radio Company, Chicago, Ill. Clock housing. 161,348, Dec. 26.
Leff, Robert L., and C. Hedrick, La Crosse, Wis. Neon tube lighted advertising display. 161,349, Dec. 26.
Leventhal, Louis, assignor of one-half to N. Freyer, New York, N. Y. Plaque. 161,350, Dec. 26.
Levine, Rachelle, Leominster, Mass. Mothball container. 161,351, Dec. 26.
Lyons-Magnus, Inc., assignee: *See*—
Zweig, Leo.
Madieu, Gerard, Monaco, Monaco. Gameboard. 161,352, Dec. 26.
Mann, Morris, Brooklyn, N. Y. Teething ring. 161,353, Dec. 26.
Manuel, Cecil T., Dallas, Tex. Closet shoe rack or similar article. 161,354, Dec. 26.
Marcy, John F., Alhambra, Calif. Radio cabinet. 161,355, Dec. 26.
Marks, Arthur, Leesburg, Fla. Revolving whatnot shelf. 161,356, Dec. 26.
Mastercrafters Clock & Radio Company, assignee: *See*—
Lerman, Ben.
Mayer China Company, assignee: *See*—
Spreier, Rudolph.
McGraw Electric Company, assignee: *See*—
Harling, Donald W.
McGraw, Jean, Los Angeles, Calif. Awning or similar article. 161,357, Dec. 26.
Metzler, Charles J.: *See*—
Schladermundt, Peter, and Metzler.
Miller, Gordon B., Glendale, assignor to Gordon B. Miller & Company, Cincinnati, Ohio. Memo pad holder. 161,358, Dec. 26.
Miller, Gordon B., & Company, assignee: *See*—
Miller, Gordon B.
Milne, Harvey C., Winnipeg, Manitoba, Canada. Baby's spoon. 161,359, Dec. 26.
Mitchell, Orrin J., assignor to Union Steel Chest Corporation, Le Roy, N. Y. Chest. 161,360, Dec. 26.
Moore, Patrick H., Los Angeles, Calif. Manicure table. 161,361, Dec. 26.
National Casket Company, Incorporated, assignee: *See*—
Schladermundt, Peter.
Nessimoff, Samuel, Brooklyn, N. Y. Handbag. 161,362, Dec. 26.
Netherby, Elena M., Oakland, Calif. Potter's wheel. 161,363, Dec. 26.
Painter, David, Evanston, Ill., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Radio receiver cabinet. 161,364, Dec. 26.
Parker, Alex M., Hackensack, N. J. Child's bibbed shirt. 161,365, Dec. 26.
Paul, Milton, Great Neck, N. Y. Telephone hand set shoulder rest. 161,366, Dec. 26.
Periman, Glenn, Los Angeles, Calif. Toy vehicle. 161,367, Dec. 26.
Petee, Lorenz D., Cleveland, Ohio. Atomizer. 161,368, Dec. 26.
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Covering for smooth surfaces. 161,369, Dec. 26.
Photo Research Corporation, assignee: *See*—
Crandell, Frank F.
Plastikaire Products Inc., assignee: *See*—
Bernstein, Morton M.
Portal Products Corporation, assignee: *See*—
Chereton, Avery B.
Product Design & Mfg. Corp., assignee: *See*—
Bunin, Ben.
Rademacher, Joseph A., Green Bay, Wis. Carton sealer. 161,370, Dec. 26.
Reinhardt, Harry S., St. Louis, Mo. Combined trophy and clock. 161,373, Dec. 26.
Reinhart, John B., Jr., and J. B. Ruebel, assignors to Trimfoot Company, Farmington, Mo. House shoe. 161,371, Dec. 26.
Reinhart, John B., Jr., and J. B. Ruebel, assignors to Trimfoot Company, Farmington, Mo. House shoe. 161,372, Dec. 26.
Reinhart, John B., Jr., and J. B. Ruebel, assignors to Trimfoot Company, Farmington, Mo. House shoe. 161,373, Dec. 26.
Reinhart, John B., Jr., and J. B. Ruebel, assignors to Trimfoot Company, Farmington, Mo. House shoe. 161,374, Dec. 26.
Rettich, Kurt, assignor to Keeler Brass Company, Grand Rapids, Mich. Handle for stoves or the like. 161,376, Dec. 26.
Risom, Jens, New York, assignor to Calvin Corporation, Long Island City, N. Y. Juvenile crib. 161,377, Dec. 26.
Ritter, Saul, assignor of one-half to M. J. Bruner, New York, N. Y. Expansible chain for a bracelet or similar article. 161,378, Dec. 26.
Reubel, Joseph B.: *See*—
Reinhart, John B., Jr., and Ruebel.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 161,380, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 161,381, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 161,382, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 161,383, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 16.,384, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Burial casket. 161,385, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Handle for a burial casket. 161,386, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Handle for a burial casket. 161,387, Dec. 26.
Schladermundt, Peter, Bronxville, assignor to National Casket Company, Incorporated, Oneida, N. Y. Handle for a burial casket. 161,388, Dec. 26.
Schladermundt, Peter, Bronxville, N. Y., and C. L. Metzler, Palisades, N. J., assignors to Avco Manufacturing Corporation, Cincinnati, Ohio. Portable radio receiver. 161,379, Dec. 26.
Scholle, Roger, New York, N. Y. Portable phonograph. 161,389, Dec. 26.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,390, Dec. 26.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,391, Dec. 26.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,392, Dec. 26.
Seeman, James, Forest Hills, N. Y. Wallpaper or the like. 161,393, Dec. 26.
Simplex Time Recorder Co., assignee: *See*—
Hobby, Harold E.
Sooy, Ephraim C., Kansas City, Mo. Firedog. 161,394, Dec. 26.
Spreier, Rudolph, Arlington, Va., assignor to Mayer China Company, Beaver Falls, Pa. Plate or the like. 161,395, Dec. 26.
Steinberg, Jerome H., Brooklyn, N. Y. Illuminable advertising sign. 161,396, Dec. 26.
Steinhardt, Irving H., New York, N. Y. Pull-cord knob or similar article. 161,397, Dec. 26.
Storch, Max H., Belle Harbor, N. Y. Spoon or similar article. 161,398, Dec. 26.
Strassner, Frank J., South Orange, N. J. Draw-discard device for card games. 161,399, Dec. 26.
Trimfoot Company, assignee: *See*—
Reinhart, John B., Jr., and Ruebel.
Triumph Hosiery Mills, Inc., assignee: *See*—
Goodman, Herbert N.
Union Steel Chest Corporation, assignee: *See*—
Mitchell, Orrin J.
Weiss, Julius, Arlington, Mass. Garment hanger. 161,400, Dec. 26.
Wincharger Corporation, assignee: *See*—
Budlong, Robert D.
Wurtz, Albert E., Whittier, Calif. Trouser hanger. 161,401, Dec. 26.
Zelniker, Idisore, New York, N. Y. Beret. 161,402, Dec. 26.
Zweig, Leo, assignor to Lyons-Magnus, Inc., San Francisco, Calif. Roadside stand. 116,403, Dec. 26.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 26TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Able, Edward T.: *See*—
Sweeney, John F., Able, and MacKay.
Acton, Grant M., assignor to Acton Manufacturing Company, Inc., Arkansas City, Kans. Bottle carrier. 2,535,113, Dec. 26.
Acton, Grant M., assignor to Acton Manufacturing Company, Inc., Arkansas City, Kans. Bottle holder and carrier. 2,535,114, Dec. 26.
Acton Manufacturing Company, Inc., assignee: *See*—
Acton, Grant M.
Adam, Armand O., Jr., Maplewood, N. J., and R. C. Avery, Jackson Heights, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control circuits. 2,535,661, Dec. 26.
Adamczyk, Edward, Indian Orchard, Mass. Lawn mower reel. 2,535,185, Dec. 26.
Adams, Kenneth H., Fenton, and G. L. Doelling, assignors to Mississippi Valley Research Laboratories, Inc., St. Louis, Mo. Thermosetting formaldehyde resin modified with a polyethylene glycol bis-(aminophenyl) ether. 2,535,380, Dec. 26.
Adams, Paul R.: *See*—
Deloraine, Edmond M., and Adams.
Addressograph-Multigraph Corporation, assignee: *See*—
Curtis, Franklin E.
Gollwitzer, Walter T.
Advance Solvents and Chemical Corporation, assignee: *See*—
Mack, Gerry P.
Advertising Ingenuities, Inc., assignee: *See*—
Voges, Frederick.
Ahles, Robert D., Schenectady, N. Y., assignor to General Electric Company. Mold for casting metals. 2,535,662, Dec. 26.
Ahlgren, Erick L., Houston, Tex. Formation tester. 2,535,342, Dec. 26.
Aircraft-Marine Products, Inc., assignee: *See*—
Balsbaugh, Jayson C.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Lewis, John H., and Allison.
Air Reduction Company, Incorporated, assignee: *See*—
Anderson, Nelson E., and Sullivan.
Tyrner, Joseph M.
Ajax Manufacturing Company, The, assignee: *See*—
Criley, William W.
Aktiebolaget Cryptoteknik, assignee: *See*—
Ohlsson, Olof A.
Aktiebolaget Elektrolux, assignee: *See*—
Kögel, Wilhelm G.
Albers-Schoenberg, Ernst, Metuchen, assignor to Steatite Research Corporation, Keasbey, N. J. Treating ferrites. 2,535,025, Dec. 26.
Alford, Andrew, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Rotatable wave guide joint. 2,535,251, Dec. 26.
Alkire, Elbern H., Easton, Pa. Musical instrument. 2,535,252, Dec. 26.
Allcraft Corrugated Corporation, assignee: *See*—
Ross, Alfred.
Allen, James S., Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Computing system. 2,535,250, Dec. 26.
Allen, R. C., Business Machines, Inc., assignee: *See*—
Koca, James F.
Allenbaugh, George G., assignor to The Ohio Injector Company, Wadsworth, Ohio. Indicating device. 2,535,826, Dec. 26.
Allied Chemical & Dye Corporation, assignee: *See*—
Martin, George E.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Herr, Charles H., Jr.
Allison, John L.: *See*—
Lewis, John H., and Allison.
Allison, William M.: *See*—
Robinson, Preston, Allison, and Beverly.
Allmana Svenska Elektriska Aktiebolaget, assignee: *See*—
Uhlmann, Erich.
All Metal Products Company, assignee: *See*—
Fleishman, Myron.
Almquist, Monroe D., Monmouth, Ill. Matrix guide. 2,535,663, Dec. 26.
Altiery, August, assignee: *See*—
Johnson, Roy G.
Altorfer Bros. Company, assignee: *See*—
Castricone, John A.
Alvarez, Alfonso, Jr., Upper Montclair, N. J. Metal shingle and strip. 2,535,620, Dec. 26.
American Character Doll Company, assignee: *See*—
Beebe, Herbert R.
American Condenser Co., assignee: *See*—
Menschik, Irving J., and Kreinick.
American Cyanamid Company, assignee: *See*—
Funk, Charles E., Jr.
Hultquist, Martin E., and Subbarow.
Kushner, Samuel, and Smith.
Thurston, Jack T., and Kaiser.
Turner, Richard J., and Stewart.
Vitalis, Emil A.
American Hardware Corporation, The, assignee: *See*—
Bernhard, Benjamin S.
American Metal Company, Limited, The, assignee: *See*—
Brytczuk, Walter L.
Hagmaier, Elmer W.
American Optical Company, assignee: *See*—
Gradisar, Albin A.
American Photocopy Equipment Co., Not Inc.: *See*—
Elsner, Burton D.
American Steel Foundries, assignee: *See*—
Cottrell, Robert B.
American Steel and Wire Company of New Jersey, The, assignee: *See*—
Harris, Arch W.
Somerville, Thomas S.
American Stove Company, assignee: *See*—
Brodbeck, Almer H.
American Telephone and Telegraph Company, assignee: *See*—
Shafer, William L.
American Viscose Corporation, assignee: *See*—
Shearer, Howard E., and Martin.
Thompson, Wirt L., Jr.
Anderson, Bruce E., assignor to Don Gaven Company, Atlanta, Ga. Urea formaldehyde resinous product. 2,535,475, Dec. 26.
Anderson, Clifford H., Minneapolis, Minn. Material handling apparatus. 2,535,476, Dec. 26.
Anderson, Eugene A., and L. C. Roberts, assignors to Southern Saw Service, Inc., Atlanta, Ga. Meat saw. 2,535,714, Dec. 26.
Anderson, Joel F., Minneapolis, Minn. Stovepipe connector for chimneys and the like. 2,535,186, Dec. 26.
Anderson, Nelson E., Scotch Plains, and S. L. Sullivan, Red Bank, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Liquid cooled cable for welding equipment. 2,535,187, Dec. 26.
Anderson, Russell J., Racine, Wis., assignor to Belle City Malleable Iron Company. Dumping mechanism for mold conveyers. 2,535,715, Dec. 26.
Anderson, William M., Virginia, Minn. Sidewalk and floor scraper. 2,535,253, Dec. 26.
Anderson, Wilmer C., Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Moisture determination. 2,535,026, Dec. 26.
Anderson, Wilmer C., Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Apparatus for measuring and controlling moisture content or the like. 2,535,027, Dec. 26.
Andrae, Ernst C., Stockholm, Sweden. Fabricating thermometers. 2,535,477, Dec. 28.
Andrews, Alfred, Penn, assignor to Guy Motors Limited, Fallings Park, Wolverhampton, England. Change-speed mechanism. 2,535,381, Dec. 26.
Andrews, Mark B., Kirkwood, Mo. Dispenser for tape. 2,535,621, Dec. 26.
Anthracite Equipment Corporation, assignee: *See*—
Devol, Lee.
Ardis, Alan E., and H. Gilbert, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Depolymerizing polymers of 1,1-dicyano ethylene. 2,535,827, Dec. 28.
Ardron, Gerald L., Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y. Machine for loading cans in trays in staggered relation with double row can feed means. 2,535,828, Dec. 26.
Armco Steel Corporation, assignee: *See*—
Jackson, John M.
Armelin, Maurice F., assignor to Societe d'Etudes de Machines Spéciales, Paris, France. Mechanism for converting a uniform motion into a variable motion. 2,535,774, Dec. 26.
Armour and Company, assignee: *See*—
Fulton, Robert R.
Armstrong Cork Company, assignee: *See*—
Billmeyer, Bruce R.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Drake, Nathan L., and Eaker.
Newman, Melvin S., and Magerlein.

Arndt, John P., Jr., Euclid, C. B. Jones, and S. J. Begun, Cleveland Heights, assignors to The Brush Development Company, Cleveland, Ohio. Magnetic recording and reproducing apparatus. 2,535,478, Dec. 26.

Arrow Fastener Co., Inc., assignee: *See*—
Boroughs, Frank S.

Arter Grinding Machine Company, assignee: *See*—
Arter, Harry, and Fraser.

Arter, Harry, Worcester, and W. F. Fraser, Westboro, assignors to Arter Grinding Machine Company, Worcester, Mass. Cross-feed mechanism for grinding machines. 2,535,997, Dec. 26.

Arter, Jakob, Oberengstringen, Switzerland, assignor, by mesne assignments, to Oikon Research Corporation, New York, N. Y. Speed variator. 2,535,028, Dec. 26.

Arvey Corporation, assignee: *See*—
Jacobson, Morris.
Roach, Earl M.

Ashley, Carlyle M., assignor to Carrier Corporation, Syracuse, N. Y. Self-contained air conditioning unit. 2,535,775, Dec. 26.

Atanasoff, John V., Silver Spring, Md., and L. H. Kaltenberger, Wichita Falls, Tex. Method and apparatus for cutting fusible fabrics. 2,535,029, Dec. 26.

Atlas Supply Company, assignee: *See*—
Folk, Irvin W.

Attwell, James F., Seattle, Wash., assignor to Windolph Tractor Company, Portland, Oreg. Garden tractor. 2,535,254, Dec. 26.

Atwell, Harold V., Beacon, assignor to The Texas Company, New York, N. Y. Synthesizing gasoline and the like. 2,535,343, Dec. 26.

Aust, Robert J., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Magnetic pickup. 2,535,479, Dec. 26.

Automatic Electric Laboratories, Inc., assignee: *See*—
Marble, Clarence.
Ostline, John E.
Voss, John H.
Wicks, John.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Woodland, Cecil R.

Automatic Totalisators, Limited, assignee: *See*—
Julius, Awdry F. and G. A.

AVCO Manufacturing Corporation, assignee: *See*—
Carpenter, John H.

Avery, Robert C.: *See*—
Adam, Armand O., Jr., and Avery.

Babcock & Wilcox Company, The, assignee: *See*—
Carlson, Walter B.

Bachli, Herman, and H. S. Shapiro, assignors to Chicago Specialty Mfg. Co. Inc., Chicago, Ill. Handle. 2,535,382, Dec. 26.

Back, Frank G., New York, and H. Lowen, Forest Hills, N. Y., said Lowen assignor to said Back. Lens for motion-picture cameras. 2,535,115, Dec. 26.

Baker, William R., Berkeley, and Q. A. Kerns, Oakland, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Electronic switch. 2,535,886, Dec. 26.

Baldwin, Joe L.: *See*—
Park, Bernard C. H., and Baldwin.

Ballard, Archibald H., and D. W. Marshall, Niagara Falls, Ontario, Canada, assignors to Norton Company, Worcester, Mass. Stabilized zirconia and producing same. 2,535,526, Dec. 26.

Ballard, Seaver A.: *See*—
Haury, Vernon E., and Ballard.

Balsbaugh, Jayson C., Newton Center, Mass., assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa. Electrical condenser. 2,535,030, Dec. 26.

Barden, William E.: *See*—
McIntyre, Charles A., and Barden.

Barkley, Archibald S., Detroit, Mich. Model airplane propeller. 2,535,527, Dec. 26.

Barnes, Thomas G., Durham, N. C., and M. J. Burger, Murray Hill, N. J., assignors to the United States of America as represented by the Secretary of War. Electrical system for locating a sound source. 2,535,255, Dec. 26.

Barnes, William A., Utica, N. Y., assignor to Utica Drop Forge & Tool Corporation. Dovetail tool. 2,535,383, Dec. 26.

Barr, Ralph L., Auburn, N. Y. Shoe with marginally-downturned sole. 2,535,560, Dec. 26.

Barrett, Edwin W.: *See*—
Gartner, Stanley J., and Barrett.

Basic Foods Company, assignee: *See*—
Michaelis, Curt.

Bassereau, Georges J. A., assignor to Societe d'Etudes pour L'Industrie du magnesium, Paris, France. Production of metal from its ore. 2,535,622, Dec. 26.

Bassett, H. Y., assignee: *See*—
Carlson, Emil.

Bastian, Richard R., Toledo, Ohio. Automatic strand starting mechanism. 2,535,561, Dec. 26.

Batt, Kenneth R., North Tonawanda, N. Y. Inertia cutoff switch for vehicles. 2,535,384, Dec. 26.

Bausch & Lomb Optical Company, assignee: *See*—
Gallusch, Bernhardt G.

Beatty, John W., Dayton, Ohio. Combination plug, socket, and panel assembly. 2,535,031, Dec. 26.

Beaver, David J., St. Albans, and M. C. Throdahl, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo. Plasticising synthetic rubber. 2,535,664, Dec. 26.

Beck, Ronald D., Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for preheating molding powders. 2,535,829, Dec. 26.

Beck, Ronald D., Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Cure tester for plastics. 2,535,830, Dec. 26.

Becker, Stephen P., assignor to Fargo Mfg. Company, Inc., Poughkeepsie, N. Y. Wire gripping assembly and casing connector. 2,535,623, Dec. 26.

Beckner, Donald O., South Lancaster, Mass. Tubular winding core. 2,535,188, Dec. 26.

Beears, Warren L., Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of novel esters of beta-hydroxy carboxylic acids by the reaction of beta-lactones with chlorophenols. 2,535,832, Dec. 26.

Beebe, Herbert R., Brooklyn, assignor to American Character Doll Company, New York, N. Y. Doll joint. 2,535,116, Dec. 26.

Begun, Semi J.: *See*—
Arndt, John P., Jr., Jones, and Begun.

Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic recording and reproducing. 2,535,480, Dec. 26.

Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Demagnetizing apparatus for magnetic recorders. 2,535,481, Dec. 26.

Bell, Richmond T., Highland Park, assignor to The Pure Oil Company, Chicago, Ill. Synthesis of thioethers. 2,535,831, Dec. 26.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Adam, Armand O., Jr., and Avery.
Burger, Michael J., and Clement.
Ellwood, Walter B.
Goddard, Myron C.
Johnson, Kenneth S.
Lewis, Willard D.
Mitchell, Doren.
Oliver, Bernard M.
Pierce, John R.
Wooten, Leland A.

Bella, Stanley J., Wilkes-Barre, Pa. Shaving brush. 2,535,716, Dec. 26.

Belle City Malleable Iron Company, assignee: *See*—
Anderson, Russell J.

Beloit Iron Works, assignee: *See*—
Goodwillie, John E.
Hrubecky, George F.

Bendix Aviation Corporation, assignee: *See*—
Dunbar, Richard F.
Emerson, Richard C.
Glass, John P., Jr.
Smeltzer, Raymond F.

Bendix Home Appliances, Inc., assignee: *See*—
Oliver, Wallace F.

Bendz, Waldemar I.: *See*—
Drake, Harcourt C., Bendz, and Mesh.

Beneke Corporation, assignee: *See*—
De Ball, George W.

Bennett, Arthur N., assignor to The Great Western Sugar Company, Denver, Colo. Recovery of glutamic acid and other values from Steffen waste water. 2,535,117, Dec. 26.

Bennett, Willard H., Washington, D. C. Radio-frequency mass spectrometer. 2,535,032, Dec. 26.

Bennett, William, Jr., Mechanicsburg, Pa. Wing cutter. 2,535,717, Dec. 26.

Benninghofen, Paul, assignee, trustee: *See*—
Waechter, Harry J.

Benson, Earl L., H. G. Young, and R. B. Hunt, Sioux Falls, S. Dak.; said Young assignor to said Hunt and said Benson. Bait box. 2,535,256, Dec. 26.

Benson, Gwyn, and R. L. Perks, Shawinigan Falls, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Polymerizing vinyl acetate in granular form. 2,535,189, Dec. 26.

Berestneff, Alexis A., assignor to Carrier Corporation, Syracuse, N. Y. Absorption refrigeration system. 2,535,776, Dec. 26.

Berger, France B., Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical circuit. 2,535,257, Dec. 26.

Bergere, Emric W., San Diego, Calif. Bowling pin having plastic-impregnated fabric coating. 2,535,033, Dec. 26.

Bernelin, Marie A.: *See*—
Duch, Gabriel V. A., and M. Adrienne.

Bernhard, Benjamin S., assignor to The American Hardware Corporation, New Britain, Conn. Door holder. 2,535,981, Dec. 26.

Beverage Sales Co., assignee: *See*—
Gerber, Albert J.

Beverly, Nelson E.: *See*—
Robinson, Preston, Allison, and Beverly.

Bickford Research Laboratories, Inc., assignee: *See*—
Rich, John D.

Bickley, Everett H., Bala-Cynwyd, Pa. Pulp evaporator. 2,535,777, Dec. 26.

Biddle, Ralph L., Indianapolis, Ind. Roller skate. 2,535,887, Dec. 26.

Bierman, Howard R., San Francisco, Calif. Hypodermic pressure manometer. 2,535,998, Dec. 26.

Biermann, Edward W.: *See*—
Miller, William, and Biermann.

Billman, Charles H., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Feeder for molten thermoplastic materials. 2,535,888, Dec. 26.

Billmeyer, Bruce R., assignor to Armstrong Cork Company, Lancaster, Pa. Production of sheet material from rubber. 2,535,034, Dec. 26.

Bintz, Harold, Neola, Iowa. Locking and releasing attachment for tractor brake pedals. 2,535,718, Dec. 26.

Bishop, William T., and E. J. Lorand, Wilmington, Del., and J. E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del. Flotation of minerals with hydroperoxide frothers. 2,535,344, Dec. 26.

Bishop, William T., and E. J. Lorand, Wilmington, Del., and J. E. Reese, St. Simons Island, Ga., assignors to Hercules Powder Company, Wilmington, Del. Flotation of minerals with hydroperoxide frothers. 2,535,345, Dec. 26.

Bittner, Fredwill, Los Angeles, Calif. Applying a form member to a beam or the like. 2,535,346, Dec. 26.

Blackman, Edward L., Greenwich, Conn. Automobile door construction. 2,535,347, Dec. 26.

Blake, William T., Fort Worth, Tex. Hydraulic control for mechanisms. 2,535,778, Dec. 26.

Bland, Reginald B., Newport News, Va. Earpiece with inflatable sealing means. 2,535,258, Dec. 26.

Blashfield, William H., assignor to The North Electric Manufacturing Company, Galion, Ohio. Telephone dial testing by means of an oscilloscope pattern. 2,535,118, Dec. 26.

Blind, Karl A., Thiensville, assignor to Dings Magnetic Separator Co., Milwaukee, Wis. Magnetic pulley. 2,535,719, Dec. 26.

Bock, Louis H.: *See*—
Hollander, Charles S., and Bock.

Boehm, Carl A., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Instrument mounting. 2,535,889, Dec. 26.

Boers, Ysbrand: *See*—
Rinia, Herre, de Bray, van Weemen, Boers, Sypkens, and van Heeckeren.

Boger, Sam, and D. V. Davis, Dodge City, Kans. Tire loosening tool. 2,535,562, Dec. 26.

Boncompain, François, Saint-Ouen, assignor to A. M. A. Ferté, Terny par Margival, France. Automatically controlled plant thinning and cultivating machine. 2,535,720, Dec. 26.

Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Catalytic oxidation of mercaptans. 2,535,833, Dec. 26.

Born, Elroy W., assignor to The Maico Company, Incorporated, Minneapolis, Minn. Clip for hearing aid cases. 2,535,834, Dec. 26.

Boroughs, Frank S., New York, assignor to Arrow Fastener Co., Inc., Brooklyn, N. Y. Hand stapler. 2,535,482, Dec. 26.

Bossard, Werner: *See*—
Hindermann, Peter, Bossard, and Krebser.

Bouchard, George H., Ipswich, assignor to Sylvania Electric Products Inc., Salem, Mass. Producing cathode coating compositions. 2,535,999, Dec. 26.

Bouck, Harold W., Hobart, Ind., assignor to Carnegie-Illinois Steel Corporation. Apparatus for removing scale. 2,535,890, Dec. 26.

Bowditch, Hoel L., Jamaica Plain, assignor to Foxboro Company, Foxboro, Mass. Reversible air-operated motor. 2,536,000, Dec. 26.

Bowes, Thomas M.: *See*—
Schaefer, Walter S., and Bowes.

Boyarsky, Irving, and I. E. Melnick, New York, N. Y. Battery operated cigarette lighter. 2,535,665, Dec. 26.

Boyd, Dick F.: *See*—
Ernst, Walter, and Boyd.

Boyer, Warren G., Canal Winchester, and C. E. Dunlap, Carroll, Ohio. Dish attachment for high chairs. 2,535,563, Dec. 26.

Boyington, Verlyn E., Portland, Oreg. Bathing rack for infants. 2,535,259, Dec. 26.

Boynton, Earl S.: *See*—
O'Brien, Joseph F., and Boynton.

Bozarth, Walter L., Modesto, Calif. Rubber band gun. 2,535,891, Dec. 26.

Bradmiller, Edwin W.: *See*
Spiller, William R., and Bradmiller.

Braly, Mack M., assignee: *See*—
Tisdale, Shirley T.

Branson, Charles D., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Control for systems using either heating or cooling medium. 2,535,892, Dec. 26.

Branson, Charles D., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Constant flow mixing valve. 2,535,893, Dec. 26.

Braswell, Reuben A., Decatur, Ga. Paintbrush holder. 2,535,260, Dec. 26.

Braun, Karl J., Glenbrook, Conn., assignor to Control Instrument Company, Inc., Brooklyn, N. Y. Column selecting means for card-sorting machines. 2,535,779, Dec. 26.

Breivogel, Philip J., Glen Ridge, assignor to White Laboratories, Incorporated, Newark, N. J. Diriboflavin ester of pyrophosphoric acid and its preparation. 2,535,385, Dec. 26.

Breon, George A., and Company, assignee: *See*—
Moffett, Robert B., and Hart.

Bridwell, John W.: *See*—
Burks, George E., Bridwell, Lundberg, and Sieving.

Briggs, Robert E., La Verne, Calif. Electrolytic water softening and pH adjustment. 2,535,035, Dec. 26.

British Cotton Industry Research Association, Shirley Institute, assignee: *See*—
Jones, Eric H.

British Resin Products Limited, assignee: *See*—
Evans, Edward M., and Hookway.

Brockel, William E.: *See*—
Worn, George A., and Brockel.

Brodbeck, Almer H., assignor to American Stove Company, St. Louis, Mo. Range base. 2,535,528, Dec. 26.

Broding, Robert A., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Electrical logging system. 2,535,666, Dec. 26.

Brookins, Richard N., South Gate, assignor to Bryant Essick, Los Angeles, Calif. Evaporative cooler. 2,535,386, Dec. 26.

Broughton, Donald B., assignor to Godfrey L. Cabot, Inc., Boston, Mass. Manufacture of finely divided silica. 2,535,036, Dec. 26.

Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Billfold adapted to receive a removable pass case. 2,535,387, Dec. 26.

Brown, Kenneth G., Mattituck, N. Y. Potato seed cutting machine. 2,535,261, Dec. 26.

Brownsey, Everett L., La Porte, Ind. Phonograph record identification tab. 2,535,262, Dec. 26.

Bruce, Charles O., assignee: *See*—
Kruse, Frederick P.

Brundage, Alan D., assignor to F. L. Jacobs Co., Detroit, Mich. Visor mounting device. 2,535,894, Dec. 26.

Brush Development Company, The, assignee: *See*—
Arndt, John P., Jr., Jones, and Begun.
Begun, Semi J.
Dank, Alfred P.
James, John H.
Jones, Cary B.
Kornel, Otto.

Bryant, Aloysius J., administrator: *See*—
Hultquist, Martin E., and Subbarow.

Bryant Chucking Grinder Company, assignee: *See*—
Day, Bernard C.

Bryant, Oxro N., Prospect Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine pedestal arrangement. 2,535,037, Dec. 26.

Brytczuk, Walter L., Roselle Park, N. J., assignor to The American Metal Company, Limited, New York, N. Y. Electrolytic tank construction. 2,535,780, Dec. 26.

Buc, Saul R.: *See*—
Randall, David I., and Buc.

Buckeye Plastic Corporation, The, assignee: *See*—
Fluke, Rothwell R.

Buckles, John Q., G. A. Lensky, and W. Trible, assignors to The Cincinnati Milling Machine C., Cincinnati, Ohio. Automatic profile cutting machine. 2,535,895, Dec. 26.

Buckles, John Q., G. A. Lensky, and W. Trible, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Pattern controlled milling machine. 2,535,896, Dec. 26.

Budne, Thomas A., Brooklyn, N. Y. Building joint connector. 2,535,263, Dec. 26.

Buisson, Pierre, Vanves, France. Gauge guiding means. 2,535,897, Dec. 26.

Bull, Carl O., Ulvsunda, assignor to Fastighetsaktiebolaget Lubo, Boras, Sweden. Wheelbarrow with weighing means. 2,535,264, Dec. 26.

Bundy Tubing Company, assignee: *See*—
Woeller, Erich O.

Burchell, Fford, assignor to Burchell-Holloway Corporation, New York, N. Y. Changeable image and color display device. 2,535,781, Dec. 26.

Burchell-Holloway Corporation, assignee: *See*—
Burchell, Fford.

Burger, Michael J.: *See*—
Barnes, Thomas G., and Burger.

Burger, Michael J., Murray Hill, and G. F. Clement, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Torque controlling mechanism. 2,535,667, Dec. 26.

Burgess, Archibald R., assignor, by mesne assignments, to M. L. J. Lambert, doing business as Crystal-Flo Products Company, St. Louis, Mo. Proportional flow valve. 2,535,835, Dec. 26.

Burgess Battery Company, assignee: *See*—
Louzos, Demetrios V.

Burkhart, Raymond A., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Apparatus for changing vertical mill rolls. 2,535,898, Dec. 26.

Burks, George E., J. W. Bridwell, G. T. Lundberg, and A. W. Sieving, Peoria, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif. Transmission coupling device. 2,535,388, Dec. 26.

Burndy Engineering Company, Inc., assignee: *See*—
Dupre, Henry P.

Burney, Charles D., Baynards Park, near Cranleigh, England. Cartridge case for ammunition. 2,535,624, Dec. 26.

Burns, Frank D.: *See*—
Wilhelm, Paul L., and Burns.

Bush, William E., Shell Beach, Calif. Calculator. 2,535,119, Dec. 26.

Busignies, Henri G., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Position indicator system. 2,535,038, Dec. 26.

Buxton Incorporated, assignee: *See*—
Broughton, Douglas J.

Caan, Albert J. Z., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Optical recording apparatus for seismic waves. 2,535,348, Dec. 26.

Cabot, Godfrey L., Inc., assignee: *See*—
Broughton, Donald B.

Cady, John E., and F. A. Mulbarger, Indianapolis, Ind., assignors to United States Rubber Company, New York, N. Y. Inner tube. 2,535,120, Dec. 26.

Caffrey, Howard E., Tucson, Ariz. Vehicle license plate with renewable tab. 2,535,265, Dec. 26.

Calabogie Floors Limited, assignee: *See*—
Stewart, Daniel W., Jr., Mitchell, and Matthews.

Calingaert, George, and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyllead compounds. 2,535,190, Dec. 26.

Calingaert, George, and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyllead compounds. 2,535,191, Dec. 26.

Calingaert, George, and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyllead compounds. 2,535,192, Dec. 26.

Calingaert, George, and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Making hydrocarbonlead compounds. 2,535,193, Dec. 26.

Cameron, Allan M., and S. R. Johnson, River Forest, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Method of and apparatus for soldering the side seams of can bodies. 2,535,836, Dec. 26.

Campbell, Earl M., Detroit Lakes, Minn. Automobile supporting rack for firearms and the like. 2,535,564, Dec. 26.

Canfield, Audley R., Lake Elmo, Minn. Machine for molding concrete block, brick, or tile. 2,535,389, Dec. 26.

Carlson, Emil, assignor, by mesne assignments, to H. Y. Bassett, O. D. Marcks, and Y. D. Hanna, Detroit, Mich. Antenna. 2,535,899, Dec. 26.

Carlson, Walter B., London, England, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Apparatus for expanding tubes in tube seats. 2,535,782, Dec. 26.

Carman, Harold C., assignor to Western Pine Mfg. Company Limited, Spokane, Wash. Electrically operated saw gauge. 2,535,900, Dec. 26.

Carmean, Russell H., Chillicothe, Ohio. Speed changer V-belt pulley. 2,535,668, Dec. 26.

Carnegie-Illinois Steel Corporation, assignee: *See*—
Bouck, Harold W.
Burkhart, Raymond A.
Dailey, William H., Jr.
Frame, John E.
Marks, Merton M.
Wertz, Frank G.
Wishart, Harold B.

Carpenter, John H., Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Forward and reverse transmission gearing. 2,535,194, Dec. 26.

Carrier Corporation, assignee: *See*—
Ashley, Carlyle M.
Berestneff, Alexis A.
Fletcher, James L.
Fletcher, James L., Peglow, and Crider.

Carson, Boyce G., Mission, Kans., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Monazo dye. 2,535,121, Dec. 26.

Case, J. I., Company, assignee: *See*—
Schoenrock, Otto R.

Castricone, John A., assignor to Altorfer Bros. Company, Peoria, Ill. Clothes-washing machine. 2,535,390, Dec. 26.

Caterpillar Tractor Co., assignee: *See*—
Burks, George E., Bridwell, Lundberg, and Sieving.
Fleck, Kenneth J.

Celanese Corporation of America, assignee: *See*—
Keight, Albert W.
Robeson, Max O.

Celotex Corporation, The, assignee: *See*—
Jones, William G.

Chance, Britton, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Blanking pulse generating circuit. 2,535,266, Dec. 26.

Charchian, Benjamin M., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y. High-frequency electron discharge device. 2,535,039, Dec. 26.

Chase, William, Chevy Chase, Md. Cooling instrument. 2,536,001, Dec. 26.

Chausson, Gaston, assignor to Societe Anonyme des Usines Chausson, Asnieres, France. Cylindrical heat exchanger. 2,535,721, Dec. 26.

Chenicek, Joseph A.: *See*—
Gleim, William K. T., and Chenicek.

Chérouvrier, Robert E., Paris, France. Pyrophoric lighter. 2,535,529, Dec. 26.

Cherry, Lloyd B.: *See*—
Harrison, Thomas R., and Cherry.

Chicago Pneumatic Tool Company, assignee: *See*—
Richardson, Julius R.

Chicago Specialty Mfg. Co. Inc., assignee: *See*—
Bachli, Herman, and Shapiro.

Childs, Gilbert C., III, assignor to Hamilton Watch Company, Lancaster, Pa. Cannon pinion indenting fixture. 2,535,483, Dec. 26.

Christiansen, Andrew L., Willowbrook, Calif. Bulk feed fish machine. 2,535,349, Dec. 26.

Churchill, Donald L., and D. L. Scott, Devon, Conn. Can opener and pouring holder. 2,535,783, Dec. 26.

Cinch Manufacturing Corporation, assignee: *See*—
Johanson, Bengt J.

Cincinnati Milling Machine Co., The, assignee: *See*—
Boehm, Carl A.
Buckles, John Q., Lensky, and Tribie.
Ernst, Hans, and Dall.
Romaine, Millard, and Roehm.

Clark, Edwin L., Collingswood, N. J., and A. Wright, Drexel Park Gardens, Pa., assignors to Radio Corporation of America. High-voltage supply for cathode-ray tubes. 2,535,530, Dec. 26.

Clark, Gilbert R., Nutley, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Synchronous filter. 2,535,040, Dec. 26.

Clark, Joseph C., assignor to Jeny Corporation, Merchantville, N. J. Batteryless flashlight. 2,535,041, Dec. 26.

Clarke, Frank W., Meadville, Pa., assignor to Talon, Inc. End stop for slide fasteners. 2,535,391, Dec. 26.

Clarostat Mfg. Co., Inc., assignee: *See*—
Mucher, George J.

Clay, Pieter H., deceased, by J. D. Heijligers, administrator, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube and cooling the anode thereof. 2,535,669, Dec. 26.

Clement, George F.: *See*—
Burger, Michael J., and Clement.

Cline, Cranmore W., Jacksonville, Fla. Rotary vane pump. 2,535,267, Dec. 26.

Clorox Chemical Co., assignee: *See*—
Wolford, Walter L.

Clover, Incorporated, assignee: *See*—
Crowley, Joseph A.

Coats, Judson M., assignor to Merco Industries Inc., Seattle, Wash. Infrared generator. 2,535,268, Dec. 26.

Coburn, D. A., assignee: *See*—
Heidger, Leonard.

Coburn Manufacturing Company, assignee: *See*—
Heidger, Leonard.

Coburn, O. A., assignee: *See*—
Heidger, Leonard.

Coburn, R. O., assignee: *See*—
Heidger, Leonard.

Coggeshall, Thellwell R.: *See*—
Skeats, Wilfred F., and Coggeshall.

Cohen, Charles A., Roselle Park, N. J., assignor to Standard Oil Development Company. Producing mahogany acids and mahogany soaps. 2,535,784, Dec. 26.

Cohn, Ernst M., and L. J. E. Hofer, Pittsburgh, Pa., assignors to the United States of America as rpresented by the Secretary of the Interior. Preparation of iron carbides. 2,535,042, Dec. 26.

Cohn, Eugene, Chicago, Ill. Atmosphere purifying device. 2,535,565, Dec. 26.

Cole, William R., Des Moines, Iowa. Head support for telephones. 2,535,269, Dec. 26.

Cole, Melville R., Manchester, Tenn. Washing machine with gas supply means. 2,535,901, Dec. 26.

Collier, Millard, Vinita, Okla., assignor of one-half to C. D. Stephens, Omaha, Tex. Roller skate. 2,535,566, Dec. 26.

Colonial Knife Company, Inc., assignee: *See*—
Paolantonio, Antonio.

Colt's Manufacturing Company, assignee: *See*—
Pastore, Michael W., and Rothwell.

Colucci, John, Jr., and R. G. Redmayne, Wilmington, N. C. Apparatus for treating wood veneer by forming spaced incomplete slits therein. 2,535,195, Dec. 26.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Gordon, Charles W.
Toensfeldt, Kurt.

Commercial Solvents Corporation, assignee: *See*—
Morey, Glen H.
Stengel, Leonard A.

Compagnie des Forges et Acieries de la Marine et d'Homecourt, assignee: *See*—
Lafont, Jean.

Conmar Products Corporation, assignee: *See*—
Natzler, Paul.

Conrad, Edward V., East Orange, N. J. Portable carrying and sleeping container. 2,535,531, Dec. 26.

Conroy, Hugh V., New York, N. Y. Display and advertising apparatus. 2,535,484, Dec. 26.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Honkanen, Eric G.

Continental Can Company, Inc., assignee: *See*—
Ardron, Gerald L.
Beck, Ronald D.
Cameron, Allan M., and Johnson.
Coyle, John.
Coyle, John, and Punte.
Fink, Henry A.
Fukal, Alfred F.
Furminger, William.
Hermani, Louis.
Kurek, Francis L.
McPherson, Robert M.
Rasmussen, Fred.
Sedwick, Matthew M.
Seigh, Joseph W.
Tomkins, Walter M.
Schneider, Julius L., and Evans.

Control Instrument Company, Inc., assignee: *See*—
Braun, Karl J.

Cook, George W., Washington, D. C. Wave analyzer. 2,535,043, Dec. 26.

Cooke, Raynold J., East Tawas, Mich. Surveyor's monument setter. 2,535,722, Dec. 26.

Coombs, Frederick C., Miami, Fla. Lawn sprinkler. 2,535,723, Dec. 26.

Corwin, Bernard, Easton, Pa. Foldable support frame for garment bags. 2,535,625, Dec. 26.

Cossor, A. C., Limited, assignee: *See*—
Rhodes, Dennis H. J.

Cottrell Robert B., assignor to American Steel Foundries, Chicago, Ill. Brake hanger and making. 2,535,626, Dec. 26.

Counterman, Lewis B., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive cartridge unit. 2,535,196, Dec. 26.

Couri, George, Astoria, N. Y. Fluid operated press and control therefor. 2,535,785, Dec. 26.

Couri, George, Astoria, N. Y. Fluid operated press. 2,535,786, Dec. 26.

Courtaulds Limited, assignee: *See*—
Happey, Frank, and Grimes.

Cover, Ralph, Westminster, Md. Corn husking machine. 2,535,485, Dec. 26.

Cox, Norman L., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinning of viscose. 2,535,044, Dec. 26.

Cox, Norman L., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinning of viscose. 2,535,045, Dec. 26.

Cox, Norman L., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinning of viscose. 2,536,014, Dec. 26.

Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Oilcan spout structure and attaching the spout. 2,535,837, Dec. 26.

Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Making a tablet box. 2,535,838, Dec. 26.

Coyle, John, and W. F. Punte, Baltimore, Md., assignors to Continental Can Company, Inc., New York, N. Y. Metal container for food products. 2,535,839, Dec. 26.

Coyle, John, Baltimore, Md., and W. F. Punte, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Container top and closure therefor. 2,535,840, Dec. 26.

Craig, Edward, Brea, Calif. Auxiliary wheel for motor vehicles. 2,535,567, Dec. 26.

Crane Packing Company, assignee: *See*—
Payne, Frank E.

Crater, Willard D., Newark, assignor to Hercules Powder Company, Wilmington, Del. Recovery of cyclotrimethylenetrinitramine. 2,535,350, Dec. 26.

Crawford, Duffer B., assignor to Elliott Company, Jeannette, Pa. Gas purifying apparatus. 2,535,351, Dec. 26.

Cresci, Anthony L., Vineland, N. J. Dump truck chute support. 2,535,841, Dec. 26.

Crider, Thomas G.: *See*—
Fletcher, James L., Peglow, and Crider.

Criley, William W., Shaker Heights, assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Stall relief for forging presses and the like. 2,535,842, Dec. 26.

Crippen, George B., Decatur, Ill. Troweling tool. 2,535,568, Dec. 26.

Croft, John J., Sr., assignor to High Point Bending & Chair Company, Siler City, N. C. Multiple boring machine. 2,535,670, Dec. 26.

Cross, Garrett P. S.: *See*—
Topham, Laurence E., and Cross.

Crowley, Joseph A., North Arlington, assignor to Clover, Incorporated, Jersey City, N. J. Miniature bowling alley. 2,535,724, Dec. 26.

Crystal-Flo Products Company, assignee: *See*—
Burgess, Archibald R.

Cumfer, Donald A., Elmhurst, assignor to United States Gypsum Company, Chicago, Ill. Loop controlled variable-speed drive. 2,535,352, Dec. 26.

Cummer-Graham Company, assignee: *See*—
Mackey, Joseph R.

Curry, Robert S., Jr., Baldwin, N. Y., assignor to The Sperry Corporation. Servomotor. 2,535,046, Dec. 26.

Curtis, Franklin E., Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Plate positioning means in printing machines. 2,535,725, Dec. 26.

Curtis, Wilbur R., Fresno, Calif. Trim and miter gauge for saw tables. 2,535,843, Dec. 26.

Curtiss-Wright Corporation, assignee: *See*—
Smith, Clovis W., and Warner.

Cutler, Barney, New Haven, Conn. Holder for toothpaste or the like. 2,535,671, Dec. 26.

Cutler-Hammer, Inc., assignee: *See*—
Lexa, George J.
Robbins, Clyde F.

Daco Metal Products, assignee: *See*—
Marvin, Stanley, and Orth.

Dailey, Charles G.: *See*—
Villane, Michael P., Dailey, and Wisentaner.

Dailey, William H., Jr., Library, Pa., assignor to Carnegie-Illinois Steel Corporation. Gas drier. 2,535,902, Dec. 26.

Dale, Charles F., Mayhill, N. Mex. Minnow fish bait. 2,535,392, Dec. 26.

Dalin, D. id, Ronninge, and G. V. Hagby, Ostertalje, Sweden. Air preheater for steam generating plants. 2,535,047, Dec. 26.

Dall, Albert H.: *See*—
Ernst, Hans, and Dall.

Dal Monte, Giorgio, Milan, assignor to Officine Lombarde Apparecchi di Precisione O. L. A. P. della Siemens Societa per Azioni, Milano, Italy. Sidetone correction winding in telephone receiver. 2,535,903, Dec. 26.

Dalton, Byron W., Chicago, Ill. Plasterer's hawk. 2,535,726, Dec. 26.

Dank, Alfred P., Euclid, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic record transducing apparatus having a backing element for coupling a record tape to the magnetic head. 2,535,486, Dec. 26.

Darby, Reuben U., Middletown, Md. Visual indicating apparatus for determining correction of postural foot alignment. 2,535,787, Dec. 26.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism for railway draft riggings. 2,535,197, Dec. 26.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,535,198, Dec. 26.

Daugert, Peter C., assignor to Infra Appliances Corporation, Wilkes-Barre, Pa. Therapeutic lamp and baker. 2,535,393, Dec. 26.

Davey, Joseph: *See*—
Tapp, Ernest T. J., and Davey.

Davidoff, David M., Brooklyn, N. Y. Electromagnetic machine. 2,535,788, Dec. 26.

Davis, Allan W., assignor to The Fairfield Shipbuilding and Engineering Company Limited, Glasgow, Scotland. Reversible speed-reduction gear for ship propulsion. 2,535,904, Dec. 26.

Davis, Dale V.: *See*—
Boger, Sam, and Davis.

Davis, Hosea B., San Antonio, Tex. Shoe for hunting dogs. 2,535,394, Dec. 26.

Davis, Hyman R.: *See*—
Kelley, John W., and Davis.

Davis, Vernon C., Holabird, S. Dak. Device to prevent breakage of poles and wires. 2,535,270, Dec. 26.

Davison Chemical Corporation, assignee: *See*—
Nicholson, Finley C., and Wilson.

Dawson, James F., Houston, Tex. Deep fat fryer. 2,535,905, Dec. 26.

Day, Bernard C., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Gear holding diaphragm chuck. 2,535,199, Dec. 26.

Day, James R., Ottumwa, Iowa, assignor to Deere Manufacturing Co. Crop comminuting machine. 2,535,122, Dec. 26.

Dearsley, George: *See*—
Molins, Desmond W., Ruau, and Dearsley.

Dearsley, George, assignor to Molins Machine Company Limited, London, England. Rotary tobacco cutting machine. 2,535,672, Dec. 26.

De Bell, George W., East Chatham, N. Y., assignor to Beneke Corporation, Columbus, Miss. Toilet seat hinge and stop. 2,535,789, Dec. 26.

De Brey, Heinrich: *See*—
Rinia, Herre, de Brey, van Weenen, Boers, Sypkens, and van Heeckeren.

Deere Manufacturing Co., assignee: *See*—
Day, James R.

Deering Milliken Research Trust, assignee: *See*—
Anderson, Wilmer C.

Deloraine, Edmond M., Paris, France, and P. R. Adams, Cranford, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Communication and radio guidance system. 2,535,048, Dec. 26.

Demick, Kenneth C., Cambridge, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Overshoe with shank filler piece therein. 2,535,123, Dec. 26.

Denslow, Ralph E., Salem, Oreg. Safety switch for the light systems of vehicles. 2,535,271, Dec. 26.

Derbyshire, Henry G., Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Aza trinuclear cyanine dyes. 2,535,982, Dec. 26.

De Rosa, Louis A., Bloomfield, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Antenna structure. 2,535,049, Dec. 29.

Détrez, René, Nogent, France. Supporting device for bottles and other receptacles on filling, stoppering, capsuling, and the like machines. 2,535,272, Dec. 26.

Deutschman, Rudolph A., Hawarden, Iowa. Valved protector for cartons. 2,535,273, Dec. 26.

De Villafranca, Edward F.: *See*—
Groebe, John L., and de Villafranca.

Devol, Lee, West Hartford, Conn., assignor to Anthracite Equipment Corporation, Wilkes-Barre, Pa. Vibratory conveyer. 2,535,050, Dec. 26.

Dice, Carl M.: *See*—
Li, Kuo C., and Dice.

Dicke, Robert H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving target indicator. 2,535,274, Dec. 26.

Diesbach, Eleanor C., trustee, assignee: *See*—
Waechter, Harry J.

Dillon, W. C. & Co., Inc., assignee: *See*—
Dillon, William C., and Kehm.

Dillon, William C., and C. H. Kehm, assignors to W. C. Dillon & Co., Inc., Chicago, Ill. Carrier wave communication system. 2,535,906, Dec. 26.

Dingley, Elmer A., Natick, Mass. Shovel loader. 2,535,727, Dec. 26.

Dings Magnetic Separator Co., assignee: *See*—
Blind, Karl A.

Dinsley, Alfred, La Canada, Calif. Electrophoretic apparatus for research. 2,535,395, Dec. 26.

Di Pietro, Nicholas, Philadelphia, Pa. Trouser fly construction. 2,535,487, Dec. 26.

Dixon, Frank T., Altoona, Pa. Manhole lid clamp. 2,535,275, Dec. 26.

Dodge Manufacturing Corporation: assignee: *See*—
Firth, David.

Doelling, George L.: *See*—
Adams, Kenneth H., and Doelling.

Doleja, Joseph, Antigo, Wis. Fishing bobber. 2,535,907, Dec. 26.

Donohue, John F., Philadelphia, Pa. Adjustable centering gauge. 2,535,051, Dec. 26.

Drake, Harcourt C., Hempstead, N. Y., W. I. Bendz, Ridgefield, and W. E. Mesh, Brookfield, assignors to Sperry Products, Inc., Danbury, Conn. Rail flaw detector mechanism. 2,535,353, Dec. 26.

Drake, Nathan L., College Heights, Md., and C. M. Eaker, Affton, Mo., assignors to the United States of America as represented by the Secretary of the Army. Insect repellents. 2,535,052, Dec. 26.

Draper Corporation, assignee: *See*—
Repass, James E.

Dros, Albert A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device comprising a gas turbine. 2,535,488, Dec. 26.

Dube, Aimee J., Troy, N. Y. Wheeled toy. 2,535,396, Dec. 26.

Du Bose, George P.: *See*—
Schmidt, Lewis W.

Du Bose, Harriet G., executrix, assignee: *See*—
Schmidt, Lewis W.

Duch, Gabriel V. A., and M. A. Duch, nee Bernelin, Lyons, France. Electrically interconnecting wires, cables, tubes, plates, and other metallic elements. 2,535,397, Dec. 26.

Duch, Marie A.: *See*—
Duch, Gabriel V. A. and M. A.

Duffy, George E., Sr.: *See*—
Willing, Joseph E., Duffy, and Stevenson.

Dumanois, Emile P., Boulogne-Billancourt, and L. Poincaré, assignors, by mesne assignments, to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France. Two-cycle low-boiling fuel injection engine. 2,535,532, Dec. 26.

Dunbar, Richard F., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Starter gearing for internal-combustion engines. 2,536,002, Dec. 26.

Dunlap, Charles E.: *See*—
Boyer, Warren G., and Dunlap.

Du Pont, E. I. de Nemours & Company, assignee: *See*—
Curson, Bayce G.
Cox, Norman L.
Gresham, William F.
Gubelmann, Ivan.

Duprey, Henry P., Astoria, N. Y., assignor to Burndy Engineering Company, Inc. Coaxial cable connection. 2,536,003, Dec. 26.

Dura-Clip Co., assignee: *See*—
Mayer, Louis G., and Neel.

Eaker, Charles M.: *See*—
Drake, Nathan L., and Eaker.

Earp-Thomas, George H., Glen Ridge, N. J. Activated composter. 2,535,627, Dec. 26.

Eastman Kodak Company, assignee: *See*—
Hickman, Kenneth C. D.

Eaton, Morton F.: *See*—
Snyder, William R., and Eaton.

Eclipse Lawn Mower Co., The, assignee: *See*—
Turner, C. Neal.

Economous, William, assignor of one-fourth to L. M. Reibstein and one-fourth to H. W. Rupnow, Chicago, Ill. Bolt pointer. 2,535,398, Dec. 26.

Ecusta Paper Corporation, assignee: *See*—
Levy, Robert M., and Harrison.

Edison, Thomas A., Incorporated, assignee: *See*—
Somers, Richard M.
Stamper, Willson Y.

Edland, Laurence, Glen Ridge, assignor to Rodic Rubber Corporation, New Brunswick, N. J. Producing stabilized drive belts. 2,535,124, Dec. 26.

Edwards, Harold T., Los Angeles, Calif. Artificial arm. 2,535,489, Dec. 26.

Edwards, Harry D., and J. D. Kendall, Ilford, assignors to Ilford Limited, Ilford, Essex, England. Rhodanic acid and oxarhodanic acid derivatives. 2,535,276, Dec. 26.

Eichinger, Ferdinand, Asnieres, France. Printing photographic or kinematographic films. 2,535,399, Dec. 26.

Eisner, Burton D., assignor to S. G. Rautbord, Chicago, Ill., doing business as American Photocopy Equipment Co., Not Inc. Device for holding photographic prints while developing or fixing. 2,535,728, Dec. 26.

Ekco Products Company, assignee: *See*—
Gehred, Jerome N.

Electric & Musical Industries Limited, assignee: *See*—
White, Eric L. C., and Newman.
White, Eric L. C., and Trott.

Electrolux Corporation, assignee: *See*—
Wahlberg, Eric C.

Elliott Company, assignee: *See*—
Crawford, Duffer B.

Ellwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multicontact dry reed relay. 2,535,400, Dec. 26.

Emerson, John H., Cambridge, Mass. Aspirator for administering medicine. 2,535,844, Dec. 26.

Emerson, Richard C., Glendale, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Superregenerative receiver. 2,535,401, Dec. 26.

Emrick, Melvin H., Jamaica, N. Y. Automatic electric index fixture. 2,535,490, Dec. 26.

English Electric Company Limited, The, assignee: *See*—
Welsh, Robert J.

Epplin, Leo A., Waterloo, Ill. Radial arm power saw. 2,535,908, Dec. 26.

Ercolino, Michael D., Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War. Portable radio compass. 2,535,053, Dec. 26.

Erie Resistor Corporation, assignee: *See*—
Minnium, Byron B.

Ernst, Hans, and A. H. Dall, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Hydraulic transmission. 2,535,909, Dec. 26.

Ernst, Walter, Mount Gilead, and D. F. Boyd, Dayton, Ohio, assignors to Institute of Industrial Research, San Antonio, Tex. Brush puller. 2,535,054, Dec. 26.

Essick, Bryant, assignee: *See*—
Brookins, Richard N.

Ethyl Corporation, assignee: *See*—
Calingaert, George, and Shapiro.
Shapiro, Hymin.

Evans Case Co., assignee: *See*—
Reilly, Alfred F.

Evans, Edward M., Tonbridge, and H. T. Hookway, Croydon, assignors to British Resin Products Limited, London, England. Production of polyallyl derivatives. 2,535,533, Dec. 26.

Evans, Edward M., Tonbridge, and H. T. Hookway, Waddon, Croydon, assignors to British Resin Products Limited, London, England. Allyl-substituted 1,3,5-trimethylene trisulfone. 2,535,534, Dec. 26.

Evans, Raymond J.: *See*—
Schneider, Julius L., and Evans.

Fairchild, Charles O., St. Albans, N. Y. Thermometer tube. 2,535,628, Dec. 26.

Fairchild, Charles O., St. Albans, N. Y. Thermometer tube. 2,535,629, Dec. 26.

Fairfield Shipbuilding and Engineering Company Limited, The, assignee: *See*—
Davis, Allan W.

Fama, Bernard A., Te Awamutu, New Zealand. Shutter for use in building constructions. 2,535,277, Dec. 26.

Fargo Mfg. Company, Inc., assignee: *See*—
Becker, Stephen P.

Farnsworth Research Corporation, assignee: *See*—
Ferguson, Joseph C.
Halstead, William S.

Fastighetsaktieboiaget Lubo, assignee: *See*—
Bull, Carl O.

Favinger, Stanley L.: *See*—
Hyle, Jacob A., and Favinger.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Charchian, Benjamin M.

Federal Telephone and Radio Corporation, assignee: *See*—
Busignies, Henri G.
Clark, Gilbert R.
Deloraine, Edmond M., and Adams.
De Rosa, Louis A.
Grieg, Donald D.

Felton, Philip C., Norristown, Pa. .Stroke saw. 2,535,491, Dec. 26.

Ferdinand, Georges: *See*—
Quercia, Marcel, and Ferdinand.

Ferguson, Joseph C., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Space discharge device. 2,535,055, Dec. 26.

Ferry, John T., Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Perforated record card. 2,535,125, Dec. 26.

Ferté, André M. A., assignee: *See*—
Boncompain, François.

Fink, Henry A., Pelham Manor, assignor to Continental Can Company Inc., New York, N. Y. Powder dispensing container with measuring trap. 2,535,845, Dec. 26.

Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Mounting for sheaves, etc. 2,535,729, Dec. 26.

Fleck, Kenneth J., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Injection plunger for compression ignition engines. 2,535,535, Dec. 26.

Fleet, John J., assignee: *See*—
Stanton, Austin N.

Fleishman, Myron, New York, N. Y., assignor to All Metal Products Company, Wyandotte, Mich. Toy pistol. 2,535,402, Dec. 26.

Fletcher, James L., Fayetteville, assignor to Carrier Corporation, Syracuse, N. Y. Refrigerator cabinet. 2,535,278, Dec. 26.

Fletcher, James L., Fayetteville, and W. Peglow, Cazenovia, N. Y., and T. G. Crider, Lima, Ohio, assignors to Carrier Corporation, Syracuse, N. Y. Removable refrigeration unit with cabinet structure. 2,535,700, Dec. 26.

Flosdorf, Earl W., Upper Darby, Pa., assignor to F. J. Stokes Machine Company. Vacuum gauge. 2,535,492, Dec. 26.

Flowers, Luther W., and H. J. Green, Wichita, Kans. Hub cap locking device. 2,535,126, Dec. 26.

Flowers, Ralph G.: *See*—
Miller, Harry F., and Flowers.

Fluke, Rothwell R., assignor to The Buckeye Plastic Corporation, Cleveland, Ohio. Level with magnetic securing means. 2,535,791, Dec. 26.

Flynn, John B., Detroit, Mich. Can opener. 2,535,354, Dec. 26.

Folk, Irvin W., Belleville, assignor to Atlas Supply Company, Newark, N. J. Electrical apparatus for servicing automobiles. 2,535,279, Dec. 26.

Fonyo, Aladar, La Grange, assignor to Wm. J. Stange Co., Chicago, Ill. Treatment of unrendered fat with nordihydroguaiaretic acid. 2,535,910, Dec. 26.

Forbes, Charles O., Bremerton, Wash. Curve-cutting band-saw attachment. 2,535,673, Dec. 26.

Fosdick Meat Tool Company, The, assignee: *See*—
Linden, Carl E., and Wetzel.

Fothergill, Samuel J. R.: *See*—
Raper, Alan R., and Fothergill.

Foulds, Robinson P., assignor to Tootal Broadhurst Lee Company Limited, Manchester, England. Treatment of materials consisting wholly or partly of wool. 2,535,846, Dec. 26.

Foxboro Company, assignee: *See*—
Bowditch, Heel L.

Frame, John E., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Slab gripping device. 2,535,911, Dec. 26.

Frank, Ernest, Yeadon, Pa., and R. F. Mozley, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of the United States Air Force. Video gating circuit. 2,535,912, Dec. 26.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,535,056, Dec. 26.

Franklin, Albert W., New York, N. Y. Die for cutting electrical units. 2,535,674, Dec. 26.

Fraser, Warren F.: *See*—
Arter, Harry, and Fraser.

Freeman, Walter F., Springfield, Mass. Traffic signal. 2,535,200, Dec. 26.

Frei, John, Jr., Chicago, Ill. Vibratory conveyer for packing. 2,535,127, Dec. 26.

French, John, Ecorse, Mich., assignor to Revere Copper and Brass Incorporated, New York, N. Y. Strip annealing. 2,535,983, Dec. 26.

Fridell, Francis O.: *See*—
Smith, Norman A., and Fridell.

Froehlich, Kurt: *See*—
Grieshaber, Emil, and Froehlich.

Froggatt, Robert E., Erdington, England. Appliance for dual heading of hollow rivets. 2,535,403, Dec. 26.

Froman, Darol K., Denver, Colo., assignor to the United States of America as represented by the United States Atomic Energy Commission. Voltage regulation and supply. 2,535,355, Dec. 26.

Fry, Harry J., Sault Ste. Marie, Ontario, Canada. Fishing rod handle. 2,535,404, Dec. 26.

Fukal, Alfred F., Cambridge, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Powder dispensing can and holder therefor. 2,535,847, Dec. 26.

Fulton, Robert R., assignor to Armour and Company, Chicago, Ill. Preparation and packing of chopped meats. 2,535,405, Dec. 26.

Funk, Charles E., Jr., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Lubricating compositions. 2,535,024, Dec. 26.

Furminger, William, Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y. Feeder for collapsed can bodies. 2,535,848, Dec. 26.

Furnel, Incorporate, assignee: *See*—
Nelson, Erdick H.

Gadret, René H., Mimizan-Bel Air, assignor of one-half to Papeteries de Gascogne (Societe Anonyme), Mimizan, France. Treatment of waste liquors derived from cellulose manufacture. 2,535,730, Dec. 26.

Gallasch, Bernhardt, G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Mechanical stage for microscopes. 2,535,128, Dec. 26.

Galvin, Frederick W., and L. J. Koch, St. Paul, Minn. Condiment shaker. 2,535,913, Dec. 26.

Gartner, Stanley J., Emporium, Pa., and E. W. Barrett, Danvers, assignors to Sylvania Electric Products, Inc., Salem, Mass. Lamp flare holder. 2,535,630, Dec. 26.

Gartrell, Robert D., Ridgewood, N. J., assignor to United States Rubber Company, New York, N. Y. Self-sealing rifle target. 2,535,280, Dec. 26.

Gautier, Georges: *See*—
Le Bozec, Leon, and Gautier.

Gavan, Don, Company, assignee: *See*—
Anderson, Bruce E.

Gehred, Jerome N., Park Ridge, assignor to Ekco Products Company, Chicago, Ill. Manufacturing spoons or the like. 2,535,406, Dec. 26.

Geigy, J. R., A. G., assignee: *See*—
Hindermann, Peter, Bossard, and Krebser.
Hodel, Ernst, and Gysin.
Martin, Henry, Gysin, Neracher, and Hirt.

General Aniline & Film Corporation, assignee: *See*—
Derbyshire, Henry G.
Randall, David L., and Buc.
Schmidt, Willy A., and Sprung.
Thompson, Thomas R.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Ahles, Robert D.
Lawrence, Benjamin J.
McMahan, Kenton D.
Miller, Harry F., and Flowers.
Schmidt, August, Jr.
Schnell, Frank A., and Thearle.
Skeats, Wilfred F., and Coggeshall.
Smith, Norman A., and Fridell.
Vezey, Edward E., Jr.
Weeks, Walter R.
Westendorp, Willem F.
Wiggin, Joseph F.
Yoder, Joe.

General Electric X-Ray Corporation, assignee: *See*—
Vlach, John J.

General Foods Corporation, assignee: *See*—
Mitchell, William A.

General Railway Signal Company, assignee: *See*—
Preston, Neil D., and Hitchcock.
Willing, Joseph E., Duffy, and Stevenson.

General Time Corporation, assignee: *See*—
Kennedy, Jesse J., and Olinger.

General Tire and Rubber Company, The, assignee: *See*—
Kelly, John H., Jr.

Genesen, Charles L., Argo, Ill. Stationary safety jack. 2,535,407, Dec. 26.

Gerber, Albert J., University City, assignor, by mesne assignments, to Beverage Sales Co., St. Louis, Mo. Beverage bottle case. 2,535,493, Dec. 26.

Gessler, Albert E., Scarsdale, and C. A. Kumins, Brooklyn, assignors to Interchemical Corporation, New York, N. Y. Making ultramarine. 2,535,057, Dec. 26.

Gilbert, Charles E., New York, N. Y. Socket receptacle having body and closure member therefor. 2,535,356, Dec. 26.

Gilbert, Harry: *See*—
Ardis, Alan E., and Gilbert.

Gill, Merle A., Rantoul, Kans., assignor to H. D. Manuel, Kansas City, Mo. Lightning arrester. 2,535,129, Dec. 26.

Glass, John P., Jr., Haverford Township, Delaware County, Pa., assignor to Bendix Aviation Corporation, Teterboro, N. J. Induction device having a substantially pure sine relation between the coupling and the relative displacement of its elements. 2,535,914, Dec. 26.

Gleim, William K. T., Chicago, and J. A. Chenicek, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Stabilization process. 2,535,058, Dec. 26.

Gliss, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing and working plastic material. 2,535,287, Dec. 26.

Gloor, Walter E., Wilmington, Del., and G. H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether composition. 2,535,357, Dec. 26.

Gluckin, Gerald W., assignor to William Gluckin & Co., Inc., New York, N. Y. Brassière. 2,535,059, Dec. 26.

Gluckin, William, & Co., Inc., assignee: *See*—
Gluckin, Gerald W.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Dust collector. 2,535,281, Dec. 26.

Goch, Joseph, Chicago, Ill. Smoke filtering device. 2,535,282, Dec. 26.

Goddard, Myron C., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ringing control circuit. 2,535,675, Dec. 26.

Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing device. 2,535,733, Dec. 26.

Gomes, Frederick J.: *See*—
Wadman, Lucius E., and Gomes.

Goodale, Harold R., Bristol, Conn. Playhouse and tent. 2,535,792, Dec. 26.
Goodenrath, Lyonel L., Shelby, Mich. Electrician's solder dipper heater. 2,535,731, Dec. 26.
Goodrich, B. F., Company, The, assignee: *See*—
Ardis, Alan E., and Gilbert.
Beears, Warren L.
Demick, Kenneth C.
Hatfield, Arch L., and Owen.
Hermanns, Otto E.
Mathes, Roger A., and Stewart.
Miller, Floyd F.
Stewart, William D.
Goodwillie, John E., assignor to Beloit Iron Works, Beloit, Wis. Sealed wet end for paper machines. 2,535,732, Dec. 26.
Gordon, Charles W., Glen Ellyn, Ill., assignor to Combustion Engineering-Superheater, Inc. Continuous batch flash drier having coordinated feed and recycling means. 2,535,570, Dec. 26.
Gorman, Thomas J., Jr., Newark, N. J. Bail for cans. 2,535,676, Dec. 26.
Gorrell, Fred, Odessa, Tex. Lubricating system for sheave blocks. 2,535,915, Dec. 26.
Gossett, Charles A., Portland, Oreg. Magnetically actuated direction indicator. 2,535,201, Dec. 26.
Gott, Earl A.: *See*—
Morrison, Orville C. and S. O., Wehrwein, and Gott.
Grace, Milton E., New Orleans, La. Educational device. 2,535,849, Dec. 26.
Grace, William H., Stamford, Conn. Mechanical check list. 2,535,498, Dec. 26.
Gradisar, Albin A., Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass. Diagnostic lamp. 2,535,916, Dec. 26.
Graham, Louis A., assignor to Graham Transmissions, Inc., Milwaukee, Wis. Variable-speed transmission. 2,535,409, Dec. 26.
Graham Transmissions, Inc., assignee: *See*—
Graham, Louis A.
Grant, Roy A.: *See*—
Stark, Harold W., and Grant.
Gray, Charles B., Springfield, Pa. Sheet metal cutting tool. 2,535,631, Dec. 26.
Great Western Sugar Company, The, assignee: *See*—
Bennett, Arthur N.
Green, Clarence J., and O. E. Hill, assignors to Norton Company, Worcester, Mass. Camshaft grinding machine. 2,535,130, Dec. 26.
Green, Hice J.: *See*—
Flowers, Luther W.
Gregory, Charles H., Eaglescliffe, and J. Hall, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Indicating, recording, and controlling apparatus. 2,535,202, Dec. 26.
Gresham, William F., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Catalytic process for preparing alcohols. 2,535,060, Dec. 26.
Grettve, Karl E. L., Lilla Edet, Sweden. Apparatus for creping paper and other crepable foils. 2,535,734, Dec. 26.
Grevas, Steve P., Nameoki, Ill. Gaseous fluid vaporizer and mixing device. 2,535,410, Dec. 26.
Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Electrical pulse width shaper and selector. 2,535,061, Dec. 26.
Grieshaber, Emil and K. Froehlich, assignors to Nordberg Manufacturing Co., Milwaukee, Wis. Control mechanism for Diesel engines. 2,535,571, Dec. 26.
Grimes, John H.: *See*—
Happey, Frank, and Grimes.
Grinnell Corporation, assignee: *See*—
Loepsinger, Albert J.
Weishman, James R.
Groebe, John L., Phillips, Tex., and E. F. de Villafranca, Bartlesville, Okla., assignors to Phillips Petroleum Company. Removing aluminum halides in hydrocarbon conversion processes. 2,535,735, Dec. 26.
Groom, Max M., Perry, Okla. Bicycle stabilizing attachment. 2,535,283, Dec. 26.
Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Propeller blade with a tubular backbone. 2,535,917, Dec. 26.
Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Rotary crank-driven intermittent grip. 2,535,918, Dec. 26.
Gubelmann, Ivan, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Brominating p-toluyl benzoic acid. 2,534,131, Dec. 26.
Gulf Research & Development Company, assignee: *See*—
Stevens, Donald R., and Starnes.
Stevens, Donald R., and Whitaker.
Gump, William S.: *See*—
Kunz, Eric C., and Gump.
Guthman, Edwin L., assignor to Edwin L. Guthman & Co., Inc., Chicago, Ill. High-frequency transformer construction. 2,535,203, Dec. 26.
Guthman, Edwin L. & Co., Inc., assignee: *See*—
Guthman, Edwin L.
Guy Motors Limited, assignee: *See*—
Andrews, Alfred.
Gyro Process Company, The, assignee: *See*—
Holland, William W.
Gysin, Hans: *See*—
Hodel, Ernst, and Gysin.
Martin, Henry, Gysin, Neracher, and Hirt.
Haeff, Andrew V., and T. E. Hanley, Washington, D. C., and C. B. Smith, Silver Spring, Md. Ultra high frequency signal generator. 2,535,062, Dec. 26.
Hagby, Gustav V.: *See*—
Dalin, David, and Hagby.
Hageline, Emil E., assignor to The Lathrop-Paulson Company, Chicago, Ill. Measured liquid feed. 2,535,204, Dec. 26.
Hagmaier, Elmer W., Pittsburgh, Pa., assignor to The American Metal Company, Limited, New York, N. Y. Flux for purifying metals. 2,535,536, Dec. 26.
Hainer, Raymond M., Revere, Mass., assignor to the United States of America as represented by the United States Atomic Energy Commission. Preparation of UF_6. 2,535,572, Dec. 26.
Hall, John: *See*—
Gregory, Charles H., and Hall.
Halstead, William S., Purchase, N. Y., assignor, by mesne assignments, to Farnsworth Research Corporation, Communicating system. 2,535,063, Dec. 26.
Hamilton Watch Company, assignee: *See*—
Childs, Gilbert C., III.
Hammond Instrument Company, assignee: *See*—
Hammond, Laurens.
Hammond, Laurens, assignor to Hammond Instrument Company, Chicago, Ill. Radio antenna apparatus. 2,535,850, Dec. 26.
Hanley, Thure E.: *See*—
Haeff, Andrew V., Hanley, and Smith.
Hanna, V. D., assignee: *See*—
Carlson, Emil.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Magnetron. 2,535,793, Dec. 26.
Hansen, Fred, White Plains, N. Y. Roof pitch sight gauge. 2,535,411, Dec. 26.
Happey, Frank, Coventry, and J. H. Grimes, Cheylesmore, Coventry, assignors to Courtaulds Limited, London, England. Manufacture of sheets or webs of fibrous textile materials. 2,535,919, Dec. 26.
Harnischfeger Corporation, assignee: *See*—
Oestreicher, Sol.
Wallsworth, Allan G., and Nielson.
Harris, Arch W., Euclid, Ohio, assignor to The American Steel and Wire Company of New Jersey. Cold-drawing steel wire. 2,535,284, Dec. 26.
Harris-Seybold Company, assignee: *See*—
Spiller, William R., and Bradmiller.
Harrison, Lawrence H., Birmingham, Ala. Resonant grounding device for alternating-current circuits. 2,535,064, Dec. 26.
Harrison & Morton Laboratories, Inc., assignee: *See*—
Williams, Ervin R.
Harrison, Owen L., and J. Hart, Milledgeville, Ill. Clover seed cleaning mill. 2,535,851, Dec. 26.
Harrison, Thomas R., Wyncote, and L. B. Cherry, Philadelphia County, Pa., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring and control method and apparatus. 2,535,412, Dec. 26.
Harrison, Ward D.: *See*—
Levy, Robert M., and Harrison.
Harry, Tom C., New Orleans, La. Convertible jacket. 2,535,205, Dec. 26.
Hart, Charlotte A.: *See*—
Moffett, Robert B., and Hart.
Hart, George T., Lynn, and M. Seymour, Cohasset, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Box forming machine. 2,535,413, Dec. 26.
Hart, Jacob: *See*—
Harrison, Owen L., and Hart.
Hart, John F., Craigmont, Idaho. Folding table. 2,535,920, Dec. 26.
Hart, John F., Craigmont, Idaho. Folding table with flexible top. 2,535,921, Dec. 26.
Hartford National Bank and Trust Company, assignee, trustee: *See*—
Clay, Pieter H.
Dros, Albert A.
Rinia, Herre, de Brey, van Weenen, Boers, Sypkens, and van Heeckeren.
Stigter, Willem H.
Hartford Products Corporation, The, assignee: *See*—
Stoner, Arthur M.
Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.
Hatfield, Arch L., and H. P. Owen, Maple Heights, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Adhesive composition comprising a rosin alcohol and a butadiene-acrylonitrile copolymer. 2,535,852, Dec. 26.
Hathaway, Harlow H., Los Angeles, Calif. Incinerator. 2,535,206, Dec. 26.
Hattersley, Charles H., Leeds, England. Flier for spinning and like machines. 2,535,736, Dec. 26.
Haury, Vernon E., El Cerrito, and S. A. Ballard, Orinda, assignors to Shell Development Company, San Francisco, Calif. Isophorone imines. 2,535,922, Dec. 26.
Heat Equipment Company, assignee: *See*—
Moss, Dean.

Heaton, Roy G., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electron tube circuit. 2,535,285, Dec. 26.
Heider, Albert J.: *See*—
Van Voorhis, William G., and Heider.
Heidger, Leonard, Hales Corners, assignor to R. O., O. A., and D. A. Coburn, doing business as Coburn Manufacturing Company, Whitewater, Wis. Material spreader. 2,535,414, Dec. 26.
Heijligers, Joris D., administrator: *See*—
Clay, Pieter H.
Heiland, Carl A., assignor to Heiland Research Corporation, Denver, Colo. Galvanometer. 2,535,065, Dec. 26.
Heiland Research Corporation, assignee: *See*—
Heiland, Carl A.
Heinz, Walter E.: *See*—
Schiermeier, Knapel F., and Heinz.
Heller, Michael, Port Chester, N. Y. Clutch mechanism for spring wound motors. 2,535,415, Dec. 26.
Hempel, Charles H., Manitowoc, Wis., assignor to Heresite & Chemical Company. Preparing ferrous metal objects for the application of synthetic resins. 2,535,794, Dec. 26.
Henning, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for working and advancing plastic material. 2,535,286, Dec. 26.
Henningsen, Leo A., Preston, Iowa. Cattle guard. 2,535,795, Dec. 26.
Hercules Powder Company, assignee: *See*—
Bishop, William T., Lorand, and Reese.
Counterman, Lewis B.
Crater, Willard de C.
Gloor, Walter E., and Pyle.
Ivett, Reginald W., and Koch.
Koch, William.
Koch, William, and Pyle.
Koch, William, and Rummelsburg.
Walton, Warren L.
Weisgerber, Cyrus A.
Heresite & Chemical Company, assignee: *See*—
Hempel, Charles H.
Hermani, Louis, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Blank feeding mechanism for can making machines. 2,535,853, Dec. 26.
Hermanns, Otto E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Injection mold. 2,535,132, Dec. 26.
Herr, Charles H., Jr., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Change-speed transmission. 2,535,632, Dec. 26.
Hertrich, Joseph, assignor to The Western States Machine Company, Hamilton, Ohio. Friction brake control system for centrifugal machines or the like. 2,535,854, Dec. 26.
Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Prospecting. 2,535,066, Dec. 26.
Hettinger, Charles, West Englewood, N. J. Machine for strip-icing confections. 2,535,573, Dec. 26.
Heywood, Vincent E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Envelope. 2,535,537, Dec. 26.
Hickman, Kenneth C. D., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Vacuum pump. 2,535,796, Dec. 26.
Hicks, Russell S., executor: *See*—
Julius, Awdry P., and G. A.
High Point Bending & Chair Company, assignee: *See*—
Croft, John J., Sr.
Hill, Oiva E.: *See*—
Green, Clarence J., and Hill.
Hill, Robert B., St. Albans, W. Va. Vacuum operated door lock. 2,535,574, Dec. 26.
Hill, Vaughn H., assignor to Motor Wheel Corporation, Lansing, Mich. Vaporizing oil burner. 2,535,923, Dec. 26.
Himmel, Robert N.: *See*—
Howard, Robert R., and Himmel.
Hindermann, Peter, Basel, W. Bossard, and A. Krebser, Riehen, assignors to J. R. Geigy A. G., Basel, Switzerland. Polyazo dyestuffs. 2,535,416, Dec. 26.
Hirt, Rudolf: *See*—
Martin, Henry, Gysin, Neracher, and Hirt.
Hitchcock, Forest B.: *See*—
Preston, Neil D., and Hitchcock.
Hobbs, Clarence L., St. Louis, Mo. Device for aid in drilling ophthalmic lenses. 2,535,633, Dec. 26.
Hobbs, Howard F., Leamington Spa, England, assignor to Hobbs Transmission Limited. Power transmission apparatus. 2,535,924, Dec. 26.
Hobbs Transmission Limited, assignee: *See*—
Hobbs, Howard F.
Hoch, Robert G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Limit control apparatus. 2,535,133, Dec. 26.
Hodel, Ernst, Birsfelden near Basel, and H. Gysin, assignors to J. R. Geigy A. G., Basel, Switzerland. Production of 1, 10-phenanthroline. 2,535,417, Dec. 26.
Hodges, Ralph T., Sr., Bristol, Tenn. License holder for rearview automobile mirrors. 2,535,575, Dec. 26.
Hodges, Ralph T., Sr., Bristol, Tenn. License holder for motor vehicles. 2,535,576, Dec. 26.
Hofer, Lawrence J. E.: *See*—
Cohn, Ernst M., and Hofer.
Holland, William W., Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich. Production of vapor phase converted hydrocarbons. 2,535,418, Dec. 26.
Hollander, Charles S., Philadelphia, and L. H. Bock, Huntingdon Valley, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of ether sulfonates. 2,535,677, Dec. 26.
Hollander, Charles S., Philadelphia, and L. H. Bock, Huntingdon Valley, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of ethers of hydroxyethane sulfonates and ether alcohols. 2,535,678, Dec. 26.
Honkanen, Eric G., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Pressure seal. 2,535,288, Dec. 26.
Hooe, John M.: *See*—
Volgenau, Robert H., and Hooe.
Hook, Cecil E., and Z. E. Hook, Des Moines, Iowa. Safety switch. 2,535,207, Dec. 26.
Hook, Zenus E.: *See*—
Hook, Cecil E., and Z. E.
Hookway, Harry T.: *See*—
Evans, Edward M., and Hookway.
Hoover, Richard L., Buffalo, N. Y. Moment of inertia calculating device. 2,535,208, Dec. 26.
Hope, Ronald S., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Ultra high frequency radio transmitter. 2,535,067, Dec. 26.
Hopp, Leo, New York, and E. Mallman, Forest Hills, assignors to The Hopp Press Inc., New York, N. Y. Division plate. 2,535,289, Dec. 26.
Hopp Press Inc., The, assignee: *See*—
Hopp, Leo, and Mallman.
Horsley, Caperton B.: *See*—
Seavey, Gordon C., and Horsley.
Horsley, Caperton B., Stamford, Conn., and G. C. Seavey, Arlington, Mass., assignors to Ultrasonic Corporation, Cambridge, Mass. Agglomerating aerosols. 2,535,679, Dec. 26.
Horsley, Caperton B., Stamford, Conn., and R. E. Young, Buffalo, N. Y., assignors to Ultrasonic Corporation, Cambridge, Mass. Method and apparatus for generating sound waves. 2,535,680, Dec. 26.
Howard, Robert R., Oak Park, Ill., and R. N. Himmel, Collingwood, N. J., assignors to Radio Corporation of America. Sound locating equipment. 2,535,134, Dec. 26.
Howsam, Hilyard C., assignor to Hubbard Spool Co., Chicago, Ill. Traverse. 2,535,737, Dec. 26.
Hrubecky, George F., Neenah, assignor to Beloit Iron Works, Beloit, Wis. Slice roll assembly for paper machine presses. 2,535,738, Dec. 26.
Hu, Quang H.: *See*—
Lee, Chin Y., and Hu.
Hubbard, Bruce W., Oak Park, assignor to Ideal Roller and Manufacturing Company, Chicago, Ill. Seal ring. 2,535,634, Dec. 26.
Hubbard Spool Co., assignee: *See*—
Howsam, Hilyard C.
Huber, J. M., Corporation, assignee: *See*—
Milman, Nathan, and Whitley.
Hubert, Bert, Batavia, Dutch East Indies, assignor, by mesne assignments, to N. V. D. de Wit Hzn, Rijswijk, Netherlands. Selective tree banding composition. 2,535,209, Dec. 26.
Hudson, Monie S., Spartanburg, S. C. Drying wood. 2,535,925, Dec. 26.
Hult, Gustav W., and H. Kingsmill, Cleveland, Ohio, said Hult assignor to said Kingsmill. Building structure. 2,535,494, Dec. 26.
Hultquist, Martin E., Bound Brook, N. J., and Y. Subbarow, deceased, Pearl River, N. Y.; A. J. Bryant, administrator, assignors to American Cyanamid Company, New York, N. Y. Substituted pyrimidines and preparation of the same. 2,535,635, Dec. 26.
Hultquist, Martin E., Bound Brook, N. J., and Y. Subbarow, deceased, Pearl River, N. Y., by A. J. Bryant, administrator, South Nyack, assignors to American Cyanamid Company, New York, N. Y. Hydroxybenzenesulfonamidotriazines and preparation of same. 2,535,636, Dec. 26.
Hunt, Roy B., assignee: *See*—
Benson, Earl L., Young, and Hunt.
Hunter Douglas Corporation, assignee: *See*—
Hunter, Joseph L., and Martin.
Hunter, Joseph L., and T. Martin, assignors, by mesne assignments, to Hunter Douglas Corporation, Riverside, Calif. Venetian blind. 2,535,926, Dec. 26.
Huston, Robert E., Henderson, Tex. Manually propelled implement handle. 2,535,419, Dec. 26.
Hyle, Jacob A., Pittsburgh, and S. L. Favinger, Mount Lebanon, Pa. Rail anchor. 2,535,739, Dec. 26.
Hyler, Lolell L., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Hitch construction. 2,535,927, Dec. 26.
Ideal Roller and Manufacturing Company, assignee: *See*—
Hubbard, Bruce W.
Ilford Limited, assignee: *See*—
Edwards, Harry D., and Kendall.

Imperial Chemical Industries Limited, assignee: *See*—
Gregory, Charles H., and Hall.
Menuoza, Mordecai.
Trail, David, and Simpson.

Industrial Research Laboratories, assignee: *See*—
Stortting, Carl R., Stamberg, and Vilter.

Industrie-en Handelmaatschappij "De Vuurslag" C. V., assignee: *See*—
Neutelings, Theodoor R., and Willem.

Infilco Incorporated, assignee: *See*—
Kongelbeck, Sverre.

Infra Appliances Corporation, assignee: *See*—
Daugert, Peter C.

Innes, James G.: *See*—
Treloar, Stanford L., and Innes.

Institute of Industrial Research, assignee: *See*—
Ernst, Walter, and Boyd.
Slick, Thomas.

Interchemical Corporation, assignee: *See*—
Gessler Albert E., and Kumins.

Interior United States of America as represented by the Secretary of the, assignee: *See*—
Cohn, Ernst M., and Hofer.

International Nickel Company, Inc., The, assignee: *See*—
Raper, Alan R., and Fothergill.

International Standard Electric Corporation, assignee: *See*—
Hope, Ronald S.
Van Mierlo, Stanislas.

Isbell, Vernon, Fort Worth, Tex. Hair comb. 2,535,797, Dec. 26.

Iverson, Arden L.: *See*—
Kohl, William R., and Iverson.

Ives, Clifford E., Wilmette, assignor to Sears, Roebuck and Co., Chicago, Ill. Cherry pitter. 2,535,928, Dec. 26.

Ivett, Reginald W., and W. Koch, assignors to Hercules Powder Company, Wilmington, Del. Plastic composition. 2,535,290, Dec. 26.

Jackson, Foyster R., Hazel Park, Mich. Jar clamp. 2,535,210, Dec. 26.

Jackson, John M., Middletown, Ohio, assignor to Armco Steel Corporation. Producing silicon steel of high-directional permeability. 2,535,420, Dec. 26.

Jacobs, Clare S., Grosse Pointe Park, assignor to F. L. Jacobs Co., Detroit, Mich. Visor mounting device. 2,535,929, Dec. 26.

Jacobs, F. L., Co., assignee: *See*—
Brundage, Alan D.
Jacobs, Clare S.

Jacobson, James H., Chicago, Ill. Parting strip assembly for highways and the like. 2,535,135, Dec. 26.

Jacobson, Morris, assignor to Arvey Corporation, Chicago, Ill. Collapsible hat holder. 2,535,136, Dec. 26.

Jacovelli, Samuel: *See*—
Sherman, Otis R., and Jacovelli.

Jagiel, Zigman J., Toledo, Ohio. Ladder jack. 2,535,291, Dec. 26.

James Cycle Company Limited, The, assignee: *See*—
Lechmere, Walter F.

James, John H., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Guide for disk type magnetic recorder-reproducers. 2,535,495, Dec. 26.

Jellinek, James F., Milwaukee, Wis. Fish lure. 2,535,211, Dec. 26.

Jensen, Howard M., Huntington, and W. B. Young, Bayport, N. Y. Electrical wall lamp with switch operated by lamp movement. 2,535,421, Dec. 26.

Jeny Corporation, assignee: *See*—
Clark, Joseph C.

Jervis, Ernest R., South Orange, assignor to National Union Radio Corporation, Orange, N. J. Microwave dynatron oscillator. 2,535,137, Dec. 26.

Johanson, Bengt J., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Radio tube socket. 2,535,578, Dec. 26.

Johnson, Arthur E., assignor of forty one-hundredths to D. K. S. Johnson, St. Louis, Mo. Resiliently supported reclining chair. 2,535,138, Dec. 26.

Johnson, Berd L., Billings, Mont. Bore finishing tool. 2,535,637, Dec. 26.

Johnson, Dorothy K. S., assignee: *See*—
Johnson, Arthur E.

Johnson, Ellis A., Chevy Chase, Md. Submarine detecting device. 2,535,008, Dec. 26.

Johnson, Everard L., Pachogue, N. Y. Infant's chair. 2,535,212, Dec. 26.

Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Separation of organic oxygenated compounds from hydrocarbons. 2,535,069, Dec. 26.

Johnson, Kenneth S., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electroacoustic system and means. 2,535,681, Dec. 26.

Johnson, Roy G., Moline, Ill., assignor of one-half to A. Altiery, Washington, D. C. Window construction. 2,535,490, Dec. 26.

Johnson, Scott R.: *See*—
Cameron, Allan M., and Johnson.

Johnston, Clarence L., Piedmont, Calif. Manifold form. 2,535,798, Dec. 26.

Jones, Cary B.: *See*—
Arndt, John P., Jr., Jones, and Begun.

Jones, Cary B., Grand Rapids, Mich., assignor to The Brush Development Co., Cleveland, Ohio. Limit control for magnetic recorders. 2,535,497, Dec. 26.

Jones, Eric H., Manchester, assignor of one-half to The British Cotton Industry Research Association, Shirley Institute, Didsbury, Manchester, England. Automatic regulation of the action of machines for the continuous processing of materials. 2,535,930, Dec. 26.

Jones, Frederick M., assignor, by mesne assignments, to U. S. Thermo Control Co., Minneapolis, Minn. Prefabricated refrigerator construction. 2,535,682, Dec. 26.

Jones, Robert E., Brooklyn, N. Y. Stud removing tool. 2,535,638, Dec. 26.

Jones, Roy W.: *See*—
Voss, John H., and Jones.

Jones, William R., Metuchen, N. J., assignor to The Celotex Corporation, Chicago, Ill. Board bundle. 2,535,422, Dec. 26.

Jongeneel, Albert M., assignee: *See*—
Schmidt, Lewis W.

Jørgensen, Karl V., Kaerby, Aalborg, Denmark. Excess voltage cutout for low-voltage systems. 2,535,423, Dec. 26.

Josephson, Archie, Hollywood, assignor to National Heaters, Inc., Glendale, Calif. Car heating attachment. 2,535,424, Dec. 26.

Julius, Awdry F., Sydney, New South Wales, Australia, and G. A. Julius, deceased, Sydney, New South Wales, Australia, by E. D. O. Julius, Killara, near Sydney, A. F. Julius, and R. S. Hicks, executors, assignors to Automatic Totalisators, Limited, Sydney, New South Wales, Australia. Operating handle interlock and impulse transmission switch assembly for race totalizators. 2,535,425, Dec. 26.

Julius, Eva D. O., executor: *See*—
Julius, Awdry F. and G. A.

Julius George A.: *See*—
Julius, Awdry F. and G. A.

Kahn, Robert L., trustee, assignee: *See*—
Razek, Joseph.

Kail, Philip B., Denver, Colo. Stereoscopic plotting machine. 2,535,213, Dec. 26.

Kaiser, Donald W.: *See*—
Thurston Jack T. and Kaiser.

Kaltenberger, Lloyd H.: *See*—
Atanasoff, John V., and Kaltenberger.

Kanarek, Joseph S., Chicago, Ill. Shirt cuff fastening device. 2,535,139, Dec. 26.

Kassel, Louis S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Centrifugal separator. 2,535,140, Dec. 26.

Katz, Robert, Yellow Springs, Ohio. Antenna guy fitting. 2,535,072, Dec. 26.

Kaufmann, Stephen, and G. Rosenkranz, assignors to Syntex, S. A., Mexico City, Mexico. Production of pseudo-kryptogenins from kryptogenins. 2,535,073, Dec. 26.

Kehm, Clarence H.: *See*—
Dillon, William C., and Kehm.

Keight, Albert W., Cumberland, Md., assignor to Celanese Corporation of America. Metier. 2,535,426, Dec. 26.

Kelley, John W., Eastchester, and H. R. Davis, Jackson Heights, assignors to The Lummus Company, New York, N. Y. Filter with explosion-proof illuminating device. 2,535,799, Dec. 26.

Kellogg, Mary D., assignee: *See*—
Popple, Alfred J.

Kelly, John H., Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Reclaiming elastomers. 2,535,931, Dec. 26.

Kember, Raymond C., assignor to Thorn Electrical Industries Limited, London, England. Hanger. 2,536,004, Dec. 26.

Kemelhor, Robert E.: *See*—
Schwartz, Daniel E., and Kemelhor.

Kemock, Steve W., Chicago, Ill. Tapping hole reamer. 2,535,932, Dec. 26.

Kendall, John D.: *See*—
Edwards, Harry D., and Kendall.

Kennedy, Carmie A.: *See*—
Kennedy, Robert A. and C. A.

Kennedy, Jesse J., San Bernardino, Calif., and R. Olinger, La Salle, Ill., assignors to General Time Corporation. Electrically synchronized timing mechanism. 2,535,214, Dec. 26.

Kennedy, Robert A. and C. A., Birmingham, Mich. Lace loom. 2,535,579, Dec. 26.

Kenney, William H., and F. C. Newburg, Teaneck, N. J. Adjustable shore. 2,535,141, Dec. 26.

Kerns, Quentin A.: *See*—
Baker, William R., and Kerns.

Kersten, Herbert H., Iowa City, Iowa. Self-sealing spherical mixing valve. 2,535,580, Dec. 26.

Kiedinger, Leo E., assignee: *See*—
Smith, Richard M.

Kiekhaefer Corporation, assignee: *See*—
Knuth, Carl.

Kimball, Walter S., Fort Warren, Wyo. Baby carrier. 2,535,683, Dec. 26.

Kindorf Co., The, assignee: *See*—
Kindorf, Harry L.

Kindorf, Harry L., assignor, by mesne assignments, to The Kindorf Co., San Francisco, Calif. Conduit supporting frame. 2,535,427, Dec. 26.

Kingsmill, Harry, assignee: *See*—
Hult, Gustave W., and Kingsmill.

Klein, Geoffroy C. G., assignee: *See*—
Poncelet, Gaëtan A.

Klein, Joseph S., Jr., Plymouth, Mich. Valve seat grinder. 2,535,292, Dec. 26.

Klenk, Karl J., Wilmington, Del. Gripping or cutting hand tool. 2,535,215, Dec. 26.

Klingman, David, Brooklyn, N. Y. Adjustable drilling jig. 2,535,581, Dec. 26.

Kliss, Charles J., Garfield, N. J. Twin seat lawn swing. 2,535,800, Dec. 26.

Knochel, William J., East Orange, and C. Wiener, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of lamp stems. 2,535,582, Dec. 26.

Knopp Air Coupling Co., assignee: *See*—
Knopp, William.

Knopp, William, Mount Shasta, Calif., assignor of one-half to Knopp Air Coupling Co. Automatic safety air valve coupling. 2,535,740, Dec. 26.

Knuth, Carl, Milwaukee, assignor to Kiekhaefer Corporation, Cedarburg, Wis. Pump. 2,536,005, Dec. 26.

Koch, James F., Woodstock, Ill., assignor to R. C. Allen Business Machines, Inc., Grand Rapids, Mich. Typewriter tabulator stop mechanism. 2,535,358, Dec. 26.

Koch, Aurelia R., West Hollywood, Calif. Skirt marker. 2,535,074, Dec. 26.

Koch, Lawrence J.: *See*—
Galvin, Frederick W., and Koch.

Koch, Louis, assignor to H. Kohnstamm & Co. Inc., New York, N. Y. Gelatinous composition of matter and preparing same. 2,535,538, Dec. 26.

Koch, William: *See*—
Ivett, Reginald W., and Koch.

Koch, William, assignor to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether composition. 2,535,363, Dec. 26.

Koch, William, and A. L. Rummelsburg, assignors to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether and making it. 2,535,359, Dec. 26.

Koch, William, Wilmington, Del., and G. H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether composition. 2,535,360, Dec. 26.

Koch, William, Wilmington, Del., and G. H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether composition. 2,535,361, Dec. 26.

Koch, William, Wilmington, Del., and G. H. Pyle, Hopewell, Va., assignors to Hercules Powder Company, Wilmington, Del. Stabilized thermoplastic cellulose ether composition. 2,535,362, Dec. 26.

Koerner, Ernest C., Wood Ridge, N. J. Recovery of protein from keratinous materials. 2,535,684, Dec. 26.

Kögel, Wilhelm G., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration. 2,535,075, Dec. 26.

Kohl, William R., Glenview, and A. L. Iverson, assignors to Para-Lux Products Company, Chicago, Ill. Garment hanger shield. 2,535,685, Dec. 26.

Kohnstamm, H., & Co. Inc., assignee: *See*—
Koch, Louis.

Kongelbeck, Sverre, assignor to Infilco Incorporated, Chicago, Ill. Liquid level contactor. 2,535,142, Dec. 26.

Konrad, Hermann, Moutier, assignor to Hermann Konrad, Soc. An., Moutier, Canton of Berne, Switzerland. Razor and comb. 2,536,015, Dec. 26.

Konrad, Hermann, Soc. An., assignee: *See*—
Konrad, Hermann.

Koontz, Clarence E., Jr., Washington, D. C. Radio amplifier circuits. 2,535,076, Dec. 26.

Kornei, Otto, Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Erasing head and apparatus for magnetic recorders. 2,535,498, Dec. 26.

Kosmis, Jan, Jr., Amsterdam, Netherlands. String for musical instruments. 2,535,143, Dec. 26.

Kovacs, Frank G., Caldwell, and F. A. Seidler, South Orange, N. J. Air dehumidifying apparatus with hygroscopic material spreading means. 2,535,144, Dec. 26.

Krebser, Adolf: *See*—
Hindermann, Peter, Bossard, and Krebser.

Kreinick, Horace C.: *See*—
Menschik, Irving J., and Kreinick.

Kroll, Cornelius, Houston, Tex. Pumping system. 2,535,583, Dec. 26.

Kruse, Fred N., assignee: *See*—
Kruse, Frederick P.

Kruse, Frederick P., deceased, Vallejo, Calif., by J. S. Kruse, executrix, assignor of twenty per cent to F. N. Kruse, Albany, Calif., forty per cent to J. S. Kruse, and forty per cent to C. O. Bruce. Torque screw driver or the like. 2,535,293, Dec. 26.

Kruse, Jeannette S., executrix, assignee: *See*—
Kruse, Frederick P.

Kubatzky, Otto, assignor to Winco Ventilator Company, St. Louis, Mo. Window and wall ventilator. 2,535,933, Dec. 26.

Kublak, John J., Brooklyn, N. Y. Clothesline washer. 2,535,428, Dec. 26.

Kumbera, George N., St. Louis, Mo. Thread cutter. 2,535,294, Dec. 26.

Kumins, Charles A.: *See*—
Gessler, Albert E., and Kumins.

Kuntny, Gregor W., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control instrument. 2,535,429, Dec. 26.

Kuntny, Gregor W., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control instrument. 2,535,430, Dec. 26.

Kunz, Eric C., and W. S. Gump, Montclair, N. J., assignors, by mesne assignments, to Sindar Corporation. Germicidal soaps containing halogenated dihydroxy diphenyl methanes. 2,535,077, Dec. 26.

Kurek, Francis L., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Solder analyzer. 2,535,855, Dec. 26.

Kushner, Samuel, Nanuet, and V. K. Smith, Jr., Pearl River, assignors to American Cyanamid Company, New York, N. Y. Sulfanilyl piperazines and preparing same. 2,535,934, Dec. 26.

Lafont, Jean, Saint-Chamond, assignor to Compagnie des Forges et Aciéries de la Marine et d'Homecourt, Paris, France. Forging apparatus. 2,535,295, Dec. 26.

Laing, Charles W., Spokane, Wash. Heel size selector. 2,535,296, Dec. 26.

Lake, Robert E.: *See*—
Morgenstern, Charles E., and Lake.

Lambert, Marion L. J., assignee: *See*—
Burgess, Archibald R.

La Mont, Herbert D., Huntington, Ind. Expansion and contraction tool. 2,535,078, Dec. 26.

Lancaster, John B., Philadelphia, Pa. Menstrual cycle indicating device. 2,535,431, Dec. 26.

Lance, Chester L., Dallas, Tex. Gripper for printing presses. 2,535,935, Dec. 26.

Landis Tool Company, assignee: *See*—
Price, Ralph E.

Langdon, Samuel W., assignor to Marks & Fuller, Inc., Rochester, N. Y. Contact printing machine. 2,535,145, Dec. 26.

Langley, Ruth M., San Gabriel, Calif. Baby's sleeping bag. 2,535,936, Dec. 26.

Langston, Samuel M., Co., assignee: *See*—
Seeger, Edward B.

La Plant-Choate Manufacturing Co., Inc., assignee: *See*—
Hyler, Loiell L.

La Pointe, Peter, Brooklyn, N. Y. Potato separating machine. 2,535,801, Dec. 26.

Larsson, Lars H., Uppsala, Sweden. Camera for multiple exposures. 2,535,297, Dec. 26.

Laspe, Albert T.: *See*—
Rotter, Lutwin C., and Laspe.

Lathrop-Paulson Company, The, assignee: *See*—
Hageline, Emil E.

Latta, James E.: *See*—
Walker, Scott W., and Latta.

Lattin, William J., Owensboro, Ky. Radio antenna system. 2,535,298, Dec. 26.

Lauer, George E., Oakland, Calif. Damper latch. 2,535,639, Dec. 26.

Lawrence, Benjamin J., Milford, Conn., assignor to General Electric Company. High-frequency coil arrangement. 2,535,686, Dec. 26.

Lawrence Manufacturing Company, assignee: *See*—
Stevens, Brooks, Jr.

Leach, Albert, Guelph, and J. Leach, Hamilton, Ontario, Canada. Tire traction cover. 2,535,299, Dec. 26.

Leach, James: *See*—
Leach, Albert and J.

Lebert, Herbert A., Cheyenne, Wyo., assignor to United Air Lines, Inc., Chicago, Ill. Upsetting a hollow rivet. 2,535,079, Dec. 26.

Le Bozec, Leon, Courbevoie, and G. Gautier, Mesnil-le-Roy, France. Fuel injecting means for motors. 2,535,937, Dec. 26.

Lechmere, Walter F., assignor to The James Cycle Company Limited, Birmingham, England. Motor cycle frame. 2,535,540, Dec. 26.

Lee, Chin Y., and Q. H. Hu, New York, N. Y. Bottom margin control device for typewriters. 2,535,539, Dec. 26.

Lee, Maurice W., Boley City, Okla. Liquefied gas storage system. 2,535,364, Dec. 26.

Lee, Norman E., Forest Hills, N. Y. Mounting. 2,535,080, Dec. 26.

Le Fiell, Sidney, San Francisco, Calif. Switch for overhead tracks. 2,535,541, Dec. 26.

Lehman, James C., Paradise, and M. E. Lehman, Bareville, assignors to P. R. Mellinger, Willow Street, Pa. Portable fruit picking device. 2,535,542, Dec. 26.

Lehman, Maurice E.: *See*—
Lehman, James C. and M. E.

Lensky, George A.: *See*—
Buckles, John Q., Lensky, and Trible.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Fluid pressure control system for vehicles. 2,535,300, Dec. 26.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Auxiliary fuel tank for tractor-implement combination. 2,535,301, Dec. 26.

Letts, Walter W., Northville, N. Y. Apparatus for drying. 2,535,216, Dec. 26.

Levine, John, Brooklyn, N. Y. Safety clothespin and line. 2,535,640, Dec. 26.

Levy, Lawrence L., Brooklyn, N. Y. Pin clasp. 2,535,641, Dec. 26.

Levy, Robert M., and W. D. Harrison, Brevard, N. C., assignors to Ecusta Paper Corporation. Disintegrator of laboratory test size for wet disintegration of cellulosic pulp samples. 2,535,302, Dec. 26.

Lew, Jacob B., assignee: *See*—
Sakirsky, Jack.

Lewis, John H., and J. L. Allison, New York, N. Y., assignors to the United States of America as represented by the Secretary of the Air Force. Electric direction finding evaluator. 2,535,942, Dec. 26.

Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic switch. 2,535,303, Dec. 26.

Lexa, George J., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control system for ignitron tubes. 2,535,499, Dec. 26.

Li, Kuo C., and C. M. Dice, Glen Cove, assignors to Wah Chang Trading Corporation, New York, N. Y. Treatment of materials containing tungsten compounds. 2,535,217, Dec. 26.

Libson, Philip, Brooklyn, assignor to Helena Rubinstein, Inc., New York, N. Y. Lamp vaporizer. 2,535,802, Dec. 26.

Liebowitz, Benjamin, assignor to Trubenizing Process Corporation, New York, N. Y. Wet press. 2,535,642, Dec. 26.

Lighter, Stephen, Whitefish Bay, Wis. Bottle carrier. 2,535,741, Dec. 26.

Lincoln Engineering Company, assignee: *See*—
Rotter, Ludwin C., and Laspe.

Lindborg, Oscar O., Charlestown, Mass. Electronic device for periodic timing. 2,535,304, Dec. 26.

Linden, Carl E., Cincinnati, and F. O. Wetzel, Norwood, assignors to The Foadick Machine Tool Company, Cincinnati, Ohio. Interlocked control for the clamps and spindle of a radial drill or the like. 2,536,006, Dec. 26.

Lindsay, Lynn G., St. Paul, Minn. Control for water softening apparatus. 2,535,432, Dec. 26.

Litwin & Sons, Inc., assignee: *See*—
Milner, Bertram.

Loepsinger, Albert J., assignor to Grinnell Corporation, Providence, R. I. Spring support. 2,535,305, Dec. 26.

Loewer, Henry F., Rochester, N. Y., and O. S. Porter, Shrewsbury, Mass., assignor to United Last Company, Portland, Maine. Last block centering apparatus. 2,535,433, Dec. 26.

Lombard, Charles F., South Pasadena, Calif. Inhaler apparatus. 2,535,938, Dec. 26.

Looft, Otto, Seattle, Wash. Plate and dish warming dining table. 2,535,500, Dec. 26.

Lorand, Eugene J.: *See*—
Bishop, William T., Lorand, and Reese.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,535,687, Dec. 26.

Lorns, Carl R., Santa Monica, Calif. Fishing reel. 2,535,584, Dec. 26.

Loucks, Claude A., assignee: *See*—
Schmidt, Lewis W.

Loughridge, Robert F., Fort Worth, Tex. Escalator step tread and guide. 2,535,501, Dec. 26.

Louson, Demetrios V., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Primary cell with electrodes of magnesium and magnesium permanganate. 2,535,742, Dec. 26.

Lowen, Herbert: *See*—
Back, Frank G., and Lowen.

Lowther, Alexander C., Alexandria, La. Filing and indexing system for phonograph records. 2,535,688, Dec. 26.

Luertzing, Walter O., assignor to Lurex Manufacturing Company, Vineland, N. J. Adapter plug for chemical vessels. 2,535,856, Dec. 26.

Lummus Company, The, assignee: *See*—
Kelley, John W., and Davis.
Worn, George A., and Brockel.

Lundahl, Carl A., Waukegan, Ill. Tray attachment for adding machines, typewriters, and the like. 2,535,743, Dec. 26.

Lundberg, George T.: *See*—
Burks, George E., Bridwell, Lundberg, and Sieving.

Lurex Manufacturing Company, assignee: *See*—
Luertzing, Walter O.

Lyman, Kenneth E., Lake Forest, assignor to Tucker Corporation, Chicago, Ill. Combination steering column support and instrument panel. 2,535,744, Dec. 26.

Lyon, George A., Detroit, Mich. Wheel cover. 2,535,081, Dec. 26.

Lyons, Benjamin, Brooklyn, N. Y. Dental articulator. 2,535,146, Dec. 26.

Lyons, Raymond, Paintsville, Ky. Spotting table attachment for cleaning apparatus. 2,535,745, Dec. 26.

Maack, Frants H., Oclense, Denmark. Telescopic standard or arm. 2,535,803, Dec. 26.

Mack, Gerry P., Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation. Preparing vinyl resin plasticized sheets. 2,535,643, Dec. 26.

MacKay, Irwin A.: *See*—
Sweeney, John F., Able, and MacKay.

Mackey, Joseph R., assignor to Cummer-Graham Company, Longview, Tex. Stapling machine. 2,535,306, Dec. 26.

Magerlein, Barney J.: *See*—
Newman, Melvin S., and Magerlein.

Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Acetonitrile production. 2,535,082, Dec. 26.

Mahoney, William E., Pawtucket, R. I., assignor to Premier Thread Company. Thread winding machine. 2,535,984, Dec. 26.

Maico Company, Incorporated, The, assignee: *See*—
Born, Elroy W.

Maizlish, Benjamin, and B. L., Baltimore, Md. Geographical multiple dial watch. 2,535,543, Dec. 26.

Maizlish, Bernard L.: *See*—
Maizlish, Benjamin and B. L.

Makowski, Clement A., assignee: *See*—
O'Connell, Donald J.

Mallman, Estelle: *See*—
Hopp, Leo, and Mallman.

Mallory, P. R., & Co., Inc., assignee: *See*—
Aust, Robert J.

Malmsten, Philip C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Stoker, including gas feedback prevention means. 2,535,939, Dec. 26.

Malvin, Elmer C., Cumberland, assignor of twenty-five per cent to P. E. Wilson, and twenty-five per cent to C. L. Wilson, Zanesville, Ohio. Safety switch for hydraulic brakes. 2,535,940, Dec. 26.

Mankin, Arthur H., Philadelphia, and D. E. Sunstein, Cynwyd, assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Grid-controlled electron tube. 2,535,307, Dec. 26.

Manney, Charles J., Kenmore, assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Hoist. 2,535,985, Dec. 26.

Mansted, Svend A. J., Hellerup, near Copenhagen, Denmark. Compressor. 2,535,308, Dec. 26.

Manuel, Harold D., assignee: *See*—
Gill, Merle A.

Marble, Clarence, Middlesex, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic charge accounting system. 2,535,218, Dec. 26.

Marcks, O. D., assignee: *See*—
Carlson, Emil.

Margolis, Ely S., New York, and H. A. Wachtel, White Plains, N. Y. Christmas tree ornament. 2,535,219, Dec. 26.

Marl, Charles N., New York, N. Y. Rocket. 2,535,309, Dec. 26.

Marietta, Michael T., Dallas, Tex. Plastic football player's mask. 2,535,434, Dec. 26.

Marks & Fuller, Inc., assignee: *See*—
Langdon, Samuel W.

Marks, Merton M., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Steam heater. 2,535,941, Dec. 26.

Markusen, David L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic control circuits. 2,535,147, Dec. 26.

Marquiss, Kenneth B., Redlands, Calif. Roof ruler. 2,535,585, Dec. 26.

Marshall, Charles, London, England. Sterilizer. 2,535,365, Dec. 26.

Marshall, Douglas W.: *See*—
Ballard, Archibald H., and Marshall.

Martin, Albert R.: *See*—
Shearer, Howard E., and Martin.

Martin, George E., New Rochelle, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Stabilized soil road and producing same. 2,535,644, Dec. 26.

Martin, Henry, H. Gysin, and O. Neracher, Basel, and R. Hirt, Muri, near Berne, assignors to J. R. Giegy A.-G., Basel, Switzerland. 4-aminobenzene-sulfonamides N'-acylated with substituted cinnamic acids. 2,535,943, Dec. 26.

Martin, Henry A., Kansas City, Kans., A. R. Young, Kansas City, Mo., and H. M. Nelly, Jr., Houston, Tex., assignors to J. F. Pritchard & Co., Kansas City, Mo. Storing natural gas. 2,535,148, Dec. 26.

Martin, Philip, New York, N. Y. Apparatus for calibrating distant-reading temperature devices. 2,535,083, Dec. 26.

Martin, Thomas: *See*—
Hunter, Joseph L., and Martin.

Marvin, Stanley, Oakland, and W. H. Orth, San Carlos, said Orth assignor, by mesne assignments, to Peerco Corporation, San Francisco, and said Marvin assignor, by mesne assignments, to Daco Metal Products, Oakland, Calif. Feeder means for conveyers. 2,535,804, Dec. 26.

Massey, Dulas L., Houston, Tex. Coupling. 2,535,435, Dec. 26.

Mathes, Roger A., and F. D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. 2-mercapto-3,6-dihydropyrimidine-3-monocarboxylic acids and esters of these acids. 2,535,857, Dec. 26.

Mathes, Roger A., and F. D. Stewart, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. 2-mercapto-3-amino-3,6-dihydropyrimidines. 2,535,858, Dec. 26.

Mathy, Eugene V., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic apparatus. 2,535,944, Dec. 26.

Matthews, Cecil V.: *See*—
Stewart, Daniel W., Jr., Mitchell, and Matthews.

Matthews, W. N., Corporation, assignee: *See*—
Turner, John L.

Mattison, Ralph W., Vallejo, Calif. Valve. 2,535,310, Dec. 26.

Mayer, Louis G., and F. J. Neel, assignors to The Dura-Clip Co., Louisville, Ky. File or folder clip. 2,535,502, Dec. 26.

Maynard, Charles E., assignor to The Pro-phy-lac-tic Brush Company, Florence, Mass. Molding thermoplastic material by the injection molding method. 2,535,436, Dec. 26.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McBride, Edward T., Hawthorne, N. J. Presentation flag package. 2,535,149, Dec. 26.

McCann, Sidney W., Irondequoit, assignor to The Pfaudler Co., Rochester, N. Y. Dip pipe for processing containers. 2,535,437, Dec. 26.

McCollom, Loran D., Oklahoma City, Okla. Armature winder. 2,535,438, Dec. 26.

McElroy, Stanley M., Smithfield, Pa. Holder for bulbs. 2,535,586, Dec. 26.

McEwan, James, San Jose, Calif. Saw sharpener. 2,535,439, Dec. 26.

McFeron, Douglas R., Eugene, Oreg. Power-operated dog for sawmill carriages. 2,535,440, Dec. 26.

McGann, Joseph H., Jr., Washington, D. C. Fire extinguishing device. 2,535,311, Dec. 26.

McGehee, David K., Canyon, Tex. Delayed acting power lift. 2,535,441, Dec. 26.

McGovern, Edward M., Maplewood, and P. Schrick, Newark, N. J. Ridge grinding tool. 2,535,587, Dec. 26.

McGuckin, Glenn M., Corpus Christi, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Apparatus for solving seismic problems for location and dip of reflecting beds. 2,535,220, Dec. 26.

McIntyre, Charles A., and W. E. Barden, San Francisco, Calif. Windshield wiper attachment. 2,535,805, Dec. 26.

McKinley, William D., Tulsa, Okla. Safety ladder. 2,535,544, Dec. 26.

McKinnon, Columbus, Chain Corporation, assignee: *See*—
Manney, Charles J.

McLaughlin, James L., A., La Jolla, Calif. Heterodyne eliminator communication system. 2,535,442, Dec. 26.

McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Lubricating arrangement for high-speed shafts. 2,535,689, Dec. 26.

McManis, Charles W., Kansas City, Kans. Organ pipe assembly. 2,535,645, Dec. 26.

McPherson, Robert M., San Leandro, Calif., assignor to Continental Can Company, Inc., New York, N. Y. Timing device for feeding articles from multiple to single rows. 2,535,859, Dec. 26.

Mead, Elmer J., Pittsburgh, Pa. Antitheft switch apparatus. 2,535,366, Dec. 26.

Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Outlet connector head. 2,535,150, Dec. 26.

Mead, Theodore E., Wilmette, Ill. Fluid-driven impact mechanism. 2,535,588, Dec. 26.

Medwin, Hyman, New York, N. Y. Combination cabinet and extensible table. 2,535,646, Dec. 26.

Mellinger, Paul B., assignee: *See*—
Lehman, James C. and M. E.

Melnick, Irving E.: *See*—
Boyarsky, Irving, and Melnick.

Mendoza, Mordecai, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Azo dyestuffs. 2,535,312, Dec. 26.

Menschik, Irving J., and H. C. Kreinick, assignors to American Condenser Co., Chicago, Ill. Dry electrolytic condenser. 2,535,945, Dec. 26.

Merco Industries Inc., assignee: *See*—
Coats, Judson M.

Merkel, Otto, Hawthorne, N. Y. Lift. 2,535,221, Dec. 26.

Mesh, William E.: *See*—
Drake, Harcourt C., Bendz, and Mesh.

Metal Products, Inc., assignee: *See*—
Nowell, Richard A.

Meunier, Edward J., Johnston, R. I. Lip guard. 2,535,084, Dec. 26.

Meyer, John F., Indianapolis, Ind. Oil burner and mixer. 2,535,443, Dec. 26.

Michaelis, Curt, Weehawken, N. J., and K. Preuss, Forest Hills, N. Y., assignors to C. Michaelis, doing business as Basic Foods Company, Union City, N. J. Portable icer. 2,535,860, Dec. 26.

Miessner, Benjamin F., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J. Vibrator-exciting action. 2,535,503, Dec. 26.

Miessner Inventions, Inc., assignee: *See*—
Miessner, Benjamin F.

Miller, Clarke E., Johnstown, Pa. Door strike plate adjuster. 2,535,444, Dec. 26.

Miller Electric Manufacturing Co., assignee: *See*—
Mulder, Allan C.

Miller, Floyd F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilization of monomeric 1,1-dicyano ethylene. 2,535,861, Dec. 26.

Miller, Harry F., and R. G. Flowers, Pittsfield, Mass., assignors to General Electric Company. Fibrous dielectric compositions. 2,535,690, Dec. 26.

Miller, Mark, Jacksonville, Fla. Ventilated wall and floor. 2,535,691, Dec. 26.

Miller, William, and E. W. Biermann, Ritzville, Wash. Goose decoy. 2,535,445, Dec. 26.

Millington, Alfred F.: *See*—
Welch, Lewis W., and Millington.

Millman, Nathan and J. B. Whitley, Macon, Ga., assignors to J. M. Huber Corporation, Locust, N. J. Treating clay. 2,535,647, Dec. 26.

Mills Engineering Company, assignee: *See*—
Mills, Herbert E.

Mills, Herbert E., assignor to Mills Engineering Company, Detroit, Mich. Oven door and window unit. 2,535,589, Dec. 26.

Mills, John P., Wolverhampton, England, assignor to The Timken Roller Bearing Company, Canton, Ohio. Automatic feed mechanism. 2,535,648, Dec. 26.

Milner, Bertram, assignor to Litwin & Sons, Inc., Cincinnati, Ohio. Spring plug for watch band attachments. 2,536,007, Dec. 26.

Milton, Paul E., Johnstown, Colo. Seed ejector for rotary trap chamber type seed planters. 2,535,222, Dec. 26.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minerals Limited, assignee: *See*—
Moyd, Louis.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Harrison, Thomas R., and Cherry.
Hoch, Robert G.
Kuntny, Gregor W.
Markusen, David L.
Wild, Rudolf F.

Minnium, Byron B., assignor to Erie Resistor Corporation, Erie, Pa. Variable condenser. 2,535,367, Dec. 26.

Mississippi Valley Research Laboratories, Inc., assignee: *See*—
Adams, Kenneth H., and Doelling.

Mitchell, Doren, Martinsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier communication system. 2,535,446, Dec. 26.

Mitchell, John: *See*—
Stewart, Daniel W., Jr., Mitchell, and Matthews.

Mitchell, John E., Indianapolis, Ind. Swiveled stepped bobbin fishing reel. 2,535,746, Dec. 26.

Mitchell, William A., Cedar Grove, N. J., assignor to General Foods Corporation, New York, N. Y. Preparation of flour bleaching compositions. 2,535,313, Dec. 26.

Mixer, Harold P., Rockville Centre, assignor to Remington Rand Inc., New York, N. Y. Selective naught block mechanism for card operated machines. 2,535,151, Dec. 26.

Modern Collet and Machine Co., assignee: *See*—
Parigian, Albert A.

Moffett, Robert B., Kalamazoo, Mich., and C. A. Hart, assignors to George A. Breon and Company, Kansas City, Mo. Cyclopentyl-isobutyl-acetic acid. 2,535,085, Dec. 26.

Moffett, Robert B., Kalamazoo, Mich., and C. A. Hart, assignors to George A. Breon and Company, Kansas City, Mo. Cyclopentyl-(2-methylallyl)-acetic acid. 2,535,086, Dec. 26.

Molins, Desmond W., F. F. Ruau, and G. Dearsley, assignors to Molins Machine Company Limited, London, England. Rotary knife tobacco cutting machine. 2,535,692, Dec. 26.

Molins Machine Company Limited, assignee: *See*—
Dearsley, George.
Molins, Desmond W., Ruau, and Dearsley.

Monsanto Chemical Company, assignee: *See*—
Beaver, David J., and Throdahl.
Shorey, Seth U., and Wright.

Monsarrat, Nicholas, Seekonk, Mass., assignor to Pantex Manufacturing Corporation, Central Falls, R. I. Fluid chamber connecting valve for pressing machines and the like. 2,535,590, Dec. 26.

Montgomery, Martha O., Independence, Mo. Hair curling unit. 2,535,223, Dec. 26.

Moore, Willard W., Scottsbluff, Nebr. Storm window and screen assembly. 2,535,314, Dec. 26.

Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Substituted hexahydropyrimidines and producing them. 2,535,747, Dec. 26.

Morgenstern, Charles E., and R. E. Lake, assignors to Nineteen Hundred Corporation, St. Joseph, Mich. Wringer head mechanism. 2,535,748, Dec. 26.

Morin, Louis H., Bronx, N. Y. Pull apart separable fastener. 2,535,504, Dec. 26.

Morin, Louis H., Bronx, N. Y. Die-cast slider pull with formed pivot bearings. 2,535,505, Dec. 26.

Morin, Louis H., Bronx, N. Y. Automatic lock slider. 2,535,506, Dec. 26.

Morrison, Bert, Detroit, Mich. Knitting needle. 2,535,315, Dec. 26.

Morrison, Orville C. and S. O., Media, J. G. Wehrwein, Havertown, and E. A. Gott, Lansdowne, Pa., assignors to Sunroc Refrigeration Company, Dover, Del. Refrigerator and water cooler. 2,536,009, Dec. 26.

Morrison, Samuel O.: *See*—
Morrison, Orville C. and S. O., Wehrwein, and Gott.

Mortimer, Thomas B., Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Shuttle. 2,535,806, Dec. 26.

Mosman, Charles E., New Preston, Conn. Polarizing lens synchronizer for cameras. 2,535,591, Dec. 26.

Moss, Dean, assignor to Heat Equipment Company, Tulsa, Okla. Submergible heater for stock tanks. 2,535,545, Dec. 26.

Motor Wheel Corporation, assignee: *See*— Hill, Vaughn H.

Mouchiroud, Antoine F. G., Lyon, assignor to Societe "Rhodiaceta," Paris, France. Polyvinyl compositions of improved resistance to light and making the same. 2,535,649, Dec. 26.

Moyd, Louis, Clinton, Miss., assignor to Minerals Limited, Yonkers, N. Y. Simulated gem. 2,535,807, Dec. 26.

Mozal, William H., trustee, assignee: *See*— Nardulli, Michael J.

Mozley, Robert F.: *See*— Frank, Ernest, and Mozley.

Mucher, George J., assignor to Clarostat Mfg. Co., Inc., Brooklyn, N. Y. Resistor and making the same. 2,535,808, Dec. 26.

Mueller, Herman G., Erie, Pa. Combined steam engine, compressor, and control therefor. 2,535,749, Dec. 23.

Mueller, Paul, assignor to Paul Mueller Company, Springfield, Mo. Cheese press. 2,535,592, Dec. 26.

Mueller, Paul, Company, assignee: *See*— Mueller, Paul.

Mulbarger, Francis A.: *See*— Cady, John E., and Mulbarger.

Mulder, Allan C., assignor to Miller Electric Manufacturing Co., Appleton, Wis. Portable manual electric spot welder. 2,535,940, Dec. 26.

Muller, Otto, Bronx, N. Y. Round and sectional boiler. 2,535,507, Dec. 26.

Mullins Manufacturing Corporation, assignee: *See*— White, Richard F.

Mullins, Thomas C., Chicago, and W. E. Mullins, Jr., Chester, Ill. Excavator. 2,535,750, Dec. 26.

Mullins, William E., Jr.: *See*— Mullins, Thomas C. and W. E., Jr.

Munters, Carl G., Stocksund, Sweden. Apparatus for impregnating heat insulating material. 2,535,087, Dec. 26.

Murray, Aubrey S., Elizabethton, Tenn. Metal table top for drafting tables or the like. 2,535,593, Dec. 26.

Murray, John M., Waterbury, assignor to The Torrington Manufacturing Company, Torrington, Conn. Collapsible reel. 2,535,693, Dec. 26.

NEA Service Inc., assignee: *See*— Thompson, Louis A.

N. V. D. de Wit Hzn, assignee: *See*— Hubert, Bert.

Nachem, Samuel, New York, N. Y. Hem construction. 2,535,224, Dec. 26.

Naples, Angelo F., trustee, assignee: *See*— Nardulli, Michael J.

Nardulli, Michael J., Chicago, Ill., assignor, by mesne assignments, to M. J. Nardulli, A. F. Naples, P. F. Nardulli, and W. H. Mozal, as trustees. Venetian blinds. 2,535,751, Dec. 26.

Nardulli, Peter F., trustee, assignee: *See*— Nardulli, Michael J.

National Heaters, Inc., assignee: *See*— Josephson, Archie.

National Tube Company, assignee: *See*— Offutt, John W.
Wenman, William T.

National Union Radio Corporation, assignee: *See*— Jervis, Ernest R.
Skellett, Albert M.

Natzler, Paul, Jackson Heights, N. Y., assignor to Conmar Products Corporation, Newark, N. J. Automatic lock slider. 2,535,508, Dec. 26.

Neel, Forest J.: *See*— Mayer, Louis G., and Neel.

Neilsen, Peter C., Chicago, Ill. Rasp unit. 2,535,088, Dec. 26.

Nelly, Henry M., Jr.: *See*— Martin, Henry A., Young, and Nelly.

Nelson, Erdick H., Walworth, Wis., assignor to Furnel, Incorporated, Chicago, Ill. Camera carrying case. 2,535,152, Dec. 26.

Nelson, Ives W., East Baton Rouge, La. Flywheel turning lever. 2,535,447, Dec. 26.

Neracher, Otto: *See*— Martin, Henry, Gysin, Neracher, and Hirt.

Neutelings, Theodoor R. and W., assignors to Industrie-en Handelmaatschappij "De Vuurslag" C. V., Bergen op Zoom, Netherlands. Baking oven. 2,535,650, Dec. 26.

Neutelings, Willem: *See*— Neutelings, Theodoor R. and W.

Newburg, Forrest C.: *See*— Kenney, William H., and Newburg.

Newell, Arthur, Minneapolis, Minn. Latch and lock. 2,535,947, Dec. 26.

Newman, Edward A.: *See*— White, Eric L. C., and Newman.

Newman, Melvin S., Columbus, Ohio, and B. J. Magerlein, Kalamazoo, Mich., assignors to the United States of America as represented by the Secretary of the Army. Insect repellents. 2,535,089, Dec. 26.

Newman, Morris, St. Paul, Minn. High-voltage method and system. 2,535,851, Dec. 26.

Nicholson, Finley C., and C. P. Wilson, Cincinnati, Ohio, assignors to The Davison Chemical Corporation, Baltimore, Md. Incorporation of fines in a silica-alumina catalyst. 2,535,948, Dec. 26.

Nielson, Edwin C.: *See*— Wallsworth, Allan G., and Nielson.

Niendorff, Otto H., Millburn, N. J. Timing device. 2,535,809, Dec. 26.

Nineteen Hundred Corporation, assignee: *See*— Morgenstern, Charles E., and Lake.

Norcross, Sterling E., Bloomfield, N. J. Draft trap. 2,535,368, Dec. 26.

Nordberg Manufacturing Co., assignee: *See*— Grieshaber, Emil, and Froehlich.

North Electric Manufacturnig Company, The, assignee: *See*— Blashfield, William H.

Norton Company, assignee: *See*— Ballard, Archibald H., and Marshall.
Green, Clarence J., and Hill.

Nottingham, Ralph K., Portland, Oreg., assignor to Phillips Tuch-Latch Company, New York, N. Y. Self-aligning latching device. 2,535,153, Dec. 26.

Novi Equipment Company, assignee: *See*— Welch, Lewis W., and Millington.

Nowell, Richard A., assignor to Metal Products, Inc., Los Angles, Calif. Counterbalanced hinge structure. 2,535,448, Dec. 26.

Oberman, Roelof M. M., The Hague, Netherlands. Circuit arrangement for a subscriber's set of a telegraph system. 2,535,652, Dec. 26.

O'Brien, Joseph F., Lebanon, and E. S. Boynton, East Orange, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Snap spring operated switch. 2,535,090, Dec. 26.

O'Connell, Donald J., assignor to C. A. Makowski, Milwaukee, Wis. Injection system and apparatus therefor. 2,535,752, Dec. 26.

Oczkowski, Constantine L., Chicago, Ill. Basketball toy. 2,535,225, Dec. 26.

Oestreicher, Sol, assignor to Harnischfeger Corporation, Milwaukee, Wis. Variable output transformer. 2,535,154, Dec. 26.

Office National d'Études et de Recherches Aeronautiques (O. N. E. R. A.), assignee: *See*— Dumanois, Emile P., and Poincare.

Officine Lombarde Apparecchi di Precisione O. L. A. P., della Siemens Societa per Azioni, assignee: *See*— Dal Monte, Giorgio.

Offutt, John W., Ellwood City, Pa., assignor to National Tube Company. Mandrel positioning device for tube mills and the like. 2,535,949, Dec. 26.

Ohio Brass Company, The, assignee: *See*— Mead, George A.

Ohio Injector Company, The, assignee: *See*— Allenbaugh, George G.

Ohlsson, Olof A., assignor to Aktiebolaget Cryptoteknik, Stockholm, Sweden. Rotary vaporizing type burner with carbon removal means. 2,535,316, Dec. 26.

Olan, Allan C., Niagara Falls, Ontario, Canada. Gas saving device. 2,535,449, Dec. 26.

Olinger, Robert: *See*— Kennedy, Jesse J., and Olinger.

Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Minimizing electron optical distortions in electron camera tubes. 2,535,810, Dec. 26.

Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage divider circuit. 2,535,811, Dec. 26.

Oliver, Wallace F., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Water inlet and vacuum release for collapsible bag type washers and extractors. 2,535,226, Dec. 26.

Olkon Research Corporation, assignee: *See*— Arter, Jakob.

O'Malley, Charles E., Chicago, Ill. Vise type fixture having two pairs of jaws. 2,535,450, Dec. 26.

O'Neill, William J., Jr., Lake Forest, Ill. Piercing device for nipples. 2,535,594, Dec. 26.

Orth, William H.: *See*— Marvin, Stanley, and Orth.

Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Party identification in automatic telephony. 2,535,509, Dec. 26.

Ostline, John E., Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Dual rate and/or reversed charging in automatic telephony. 2,535,510, Dec. 26.

Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,535,511, Dec. 26.

Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,535,512, Dec. 26.

Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Testing device for line identifying equipment. 2,535,513, Dec. 26.

Ott, Friedrich, Frankfort-on-the-Main, Germany, assignor of fifty per cent interest to P. E. Quintus, Arlington, Va. Apparatus for generating acetylene gas. 2,535,227, Dec. 26.

Owen, Harold P.: *See*— Hatfield, Arch L., and Owen.

Owens-Corning Fiberglas Corporation, assignee: *See*— Hillman, Charles H.

Owens, Freeman H., New York, N. Y. Intermittent grip positioning apparatus for control cams. 2,535,514, Dec. 26.

Page, Carl M., Van Nuys, Calif. Flammable gas detector. 2,535,950, Dec. 26.

Paillard S. A., assignee: *See*— Thévenaz, Jean.

Palmer, Raymond C., Chicago, Ill. Feed adjustment device. 2,535,228, Dec. 26.

Pan American Refining Corporation, assignee: *See*— Smith, Frank J.

Pandorf, Victor H., Cincinnati, Ohio. Nasal filter. 2,535,155, Dec. 26.

Panoramic Radio Corporation, assignee: *See*— Wallace, Marcel.

Pantex Manufacturing Corporation, assignee: *See*— Monsarrat, Nicholas.

Paolantonio, Antonio, Johnston, R. I., assignor to Colonial Knife Company, Inc. Package for knives. 2,535,229, Dec. 26.

Papeteries de Gascogne (Societe anonyme), assignee: *See*— Gadret, René H.

Papierfabrik Balsthal A. G., assignee: *See*— Trevisan, Bruno.

Paragon Revolute Corporation, assignee: *See*— Wilde, Frederick G.

Para-Lux Products Company, assignee: *See*— Kohl, William R., and Iverson.

Parigian, Albert A., Dearborn, assignor to Modern Collet and Machine Co., Ecorse, Mich. Front loading collet. 2,535,951, Dec. 26.

Park, Bernard C. H., and J. L. Baldwin, Appleton City, Mo. Pocketed game table and runway apparatus. 2,535,595, Dec. 26.

Parker, Ted M., Kansas City, Mo. Lift jack. 2,535,753, Dec. 26.

Partridge, Lynn E., Portland, Oreg. Suction box for photographic enlargers. 2,535,952, Dec. 26.

Pastore, Michael W., Hartford, and J. C. Rothwell, Bolton, assignors to Colt's Manufacturing Company, Hartford, Conn. Semiautomatic firearm with trigger operated cocking mechanism. 2,535,156, Dec. 26.

Patchogue-Plymouth Mills Corporation, assignee: *See*— Mortimer, Thomas B.

Pattenden, Warren C.: *See*— Sproule, Lorne W., and Pattenden.

Payne, Elmer C., Marblehead, assignor to Sylvania Electric Products Inc., Salem, Mass. Purification of phosphor components. 2,535,986, Dec. 26.

Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Self-sealing coupling. 2,535,694, Dec. 26.

Peerco Corporation, assignee: *See*— Marvin, Stanley, and Orth.

Peglow, Walter: *See*— Fletcher, James L., Peglow, and Crider.

Pelcé, Henri, assignor to Société dite: Saint Freres, Societe-Anonyme, Paris, France. Device responsive to the unwinding of a weft thread. 2,535,369, Dec. 26.

Pellé, Pierre, Arcueil, France. Retransmitter system and impulse corrector. 2,535,754, Dec. 26.

Perfection Stove Company, assignee: *See*— Resek, Marc.

Perks, Robert L.: *See*— Benson, Gwyn, and Perks.

Permutit Company, The, assignee: *See*— Way, Arnold D.

Pest Control Limited, assignee: *See*— Tapp, Ernest T. J., and Davey.

Peterson, Edwin F., Kewanee, Ill. Machine vibrator. 2,535,596, Dec. 26.

Pewitt, Bernard B., Chattanooga, Tenn. Vertical and horizontal axes roundabout. 2,535,862, Dec. 26.

Pezzillo, Albert R., Jr., Philadelphia, Pa. Motor pump unit. 2,535,695, Dec. 26.

Pfaudler Co., The, assignee: *See*— McCann, Sidney W.

Philco Corporation, assignee: *See*— Mankin, Arthur H., and Sunstein.
Rodgers, Lionel M.

Phillips, Festus C., Granbury, Tex. Painting device for round surfaces. 2,535,451, Dec. 26.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Expander for piston rings. 2,535,597, Dec. 26.

Phillips, Jesse B., Fort Worth, Tex. Clutch for tractor mounted hayrakes. 2,535,812, Dec. 26.

Phillips Petroleum Company, assignee: *See*— Groebe, John L., and de Villafranca.
Mahan, John E.
Mathy, John E.

Phillips Tuch-Latch Company, assignee: *See*— Nottingham, Ralph K.

Pierce, John B., Foundation, assignee: *See*— O'Brien, Joseph F., and Boynton.

Pierce, John R., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-speed oscilloscope. 2,535,317, Dec. 26.

Pitts, William A., Tulsa, Okla. Kelly handling device. 2,535,546, Dec. 26.

Pledger, William A., San Francisco, Calif. Ventilating device for a kitchen and a kitchen stove. 2,535,863, Dec. 26.

Plehn, Henry M., New York, N. Y. Garment. 2,535,864, Dec. 26.

Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Telemetering system. 2,535,547, Dec. 26.

Pohl, Wadsworth E., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Cinematographic matte printing. 2,535,370, Dec. 26.

Poincaré, Léon: *See*— Dumanois, Emile P., and Poincaré.

Poncelet, Gaëtan A., Brussels-Ixelles, Belgium, assignor to G. C. G. Klein, Weert, Netherlands. Extrusion press. 2,535,865, Dec. 26.

Poppie, Alfred J., San Francisco, Calif., assignor of one-fifteenth to W. G. Poppie, one-fifteenth to J. H. Poppie, Victor, Mont., one-fifteenth to M. D. Kellogg and two-fifteenths to R. F. Poppie, San Francisco, Calif. Sugar beet pickup machine. 2,535,598, Dec. 26.

Poppie, John H., assignee: *See*— Poppie, Alfred J.

Poppie, Ruth F., assignee: *See*— Poppie, Alfred J.

Poppie, Wilford G., assignee: *See*— Poppie, Alfred J.

Porter, Carl W., Alexandria, Va. Foldable roasting spit. 2,535,548, Dec. 26.

Porter, Oscar S.: *See*— Loewer, Henry F., and Porter.

Powers, George V., Great Bend, Kans. Cutoff valve. 2,535,953, Dec. 26.

Premier Thread Company, assignee: *See*— Mahoney, William E.

Preston, Nell D., and F. B. Hitchcock, assignors to General Railway Signal Company, Rochester, N. Y. Airway traffic controlling system. 2,535,954, Dec. 26.

Preston, Richard A., Kalamazoo, Mich. Cable clamp. 2,535,599, Dec. 26.

Preuss, Kurt: *See*— Michaelis, Curt, and Preuss.

Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Cam grinding machine. 2,535,549, Dec. 26.

Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Feed mechanism. 2,535,550, Dec. 26.

Pritchard, J. F., & Co., assignee: *See*— Martin, Henry A., Young, and Nelly, Jr.

Pro-phy-lac-tic Brush Company, The, assignee: *See*— Maynard, Charles E.

Punch Engineering Pty. Limited, assignee: *See*— Skillman, Thomas S.

Punte, William F.: *See*— Coyle, John, and Punte.

Purdum, Genevieve A., Boring, Oreg. Animated toy. 2,535,230, Dec. 26.

Pure Oil Company, The, assignee: *See*— Bell, Richmond T.
Bond, Donald C.

Pyle, George H: *See*— Gloor, Walter E., and Pyle.
Koch, William, and Pyle.

Quercia, Marcel, Paris, and G. Ferdinand, Nogent/Marne, France. Lighter using gaseous fuel. 2,535,452, Dec. 26.

Quick, Robert G., Silver Spring, Md. Centrifugal vacuum tube tester. 2,535,091, Dec. 26.

Quintus, Paul E., assignee: *See*— Ott, Friedrich.

Rabl, Alfred, Vienna, Austria. Bicycle hub dynamo. 2,535,453, Dec. 26.

Radio Corporation of America, assignee: *See*— Clark, Edwin L., and Wright.
Hansell, Clarence W.
Howard, Robert R., and Himmel.
Poch, Waldemar J.
Schroeder, Alfred C.
Thomas, Lucius P., Jr.

Radovan, Joseph T., Long Island City, N. Y. Spinning top with attached flexible ball chain member. 2,535,157, Dec. 26.

Raisch, Charles F., assignor to Stewart-Warner Corporation, Chicago, Ill. Collapsible drain. 2,535,955, Dec. 26.

Randall, David I., and S. R. Buc, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Aminomethyl compounds of the polycyclic diketo series and N-phthaloyl derivatives thereof. 2,535,987, Dec. 26.

Raper, Alan R., and S. J. R. Fothergill, London, England, assignors to The International Nickel Company, Inc., New York, N. Y. Preparation of substantially pure ammonium chloroiridite solution. 2,535,551, Dec. 26.

Rapp, Theodore, Los Angeles, Calif. Timing mechanism. 2,535,371, Dec. 26.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle luggage compartment closure operating mechanism. 2,535,600, Dec. 26.

Rasmussen, Fred, Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y. Article divider and delivering device. 2,535,866, Dec. 26.

Rasmusson, Marlin B., assignor to Vitafreze Equipment, Inc., Sacramento, Calif. Method and apparatus for making frozen confections. 2,535,231, Dec. 26.

Ratcliffe, John T., Frinton-on-Sea, England. Mechanism for winding and paying out cables and the like. 2,535,318, Dec. 26.

Rautbord, Samuel G., assignee: *See*— Eisner, Hurton D.

Rawl, Philip, Brookline, and S. Rosoff, Dorchester, Mass. Attachment for snap-on snow chains. 2,535,601, Dec. 26.

Rawlins, Joseph A., Tenafly, N. J., assignor to The Sperry Corporation. Air lubricated thrust bearing. 2,535,454, Dec. 26.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Thermocouple for gas or oil burners. 2,535,602, Dec. 26.

Razek, Joseph, Havertown, Pa., assignor to R. L. Kahn, trustee, Chicago, Ill. Electrical apparatus. 2,535,232, Dec. 26.

Redinger, Clarence V., San Bernardino, assignor of forty-nine per cent to D. E. Roode, Highland, Calif. Making ornamental cakes. 2,535,319, Dec. 26.

Redmayne, Robert G.: *See*— Colucci, John, Jr., and Redmayne.

Reel, Grover B., Shelby, N. C. Return device for picker sticks. 2,535,867, Dec. 26.

Reese, John H.: *See*— Bishop, William T., Lorand, and Reese.

Reilly, Alfred F., North Attleboro, Mass., assignor to Evans Case Co. Compact. 2,535,455, Dec. 26.

Remington Rand Inc., assignee: *See*— Ferry, John T.
Mixer, Harold P.

Repass, James E., assignor to Draper Corporation, Hopedale, Mass. Whip roll mechanism for looms. 2,535,515, Dec. 26.

Republic Steel Corporation, assignee: *See*— Schaefer, Walter S., and Bowes.

Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Auxiliary vapor generating attachment for therapeutic vapor or gas producing machines. 2,535,516, Dec. 26.

Rettinger, Frederick S., Battle Creek, Mich. Sink, lavatory, and commode cleaner. 2,535,092, Dec. 26.

Revere Copper and Brass Incorporated, assignee: *See*— French, John.

Rhinehart, John R., Fort Wayne, Ind. Calf weaner. 2,535,158, Dec. 26.

Rhinehart, John R., Fort Wayne, Ind. Nipple attachment for feed pails. 2,535,159, Dec. 26.

Rhodes, Dennis H. J., assignor to A. C. Cossor Limited, London, England. Sealed housing for an electrical condenser and sealing the condenser in the housing. 2,535,517, Dec. 26.

Rich, John D., Simsbury, assignor to Bickford Research Laboratories, Inc., Hartford, Conn. Fuse igniting and connecting means. 2,535,518, Dec. 26.

Richardson, Earl L., Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,535,696, Dec. 26.

Richardson, Julius R., Wichita Falls, Tex., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Tool joint. 2,535,320, Dec. 26.

Riddell, Thomas H., North Sydney, New South Wales, Australia. Clothes hanger. 2,535,603, Dec. 26.

Riebstein, Lee M., assignee: *See*— Economous, William.

Rieschick, Richard R., New York, N. Y. Tuning accordions. 2,535,813, Dec. 26.

Rieter, Gustave T., Cedarburg, Wis. Adjustable ironing board. 2,535,755, Dec. 26.

Rinia, Herre, H. de Brey, F. L. van Weenen, Y. Boers, G. L. Sypkens, and W. J. van Heeckeren, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Co., Hartford, Conn., as trustee. Five element hot-gas motor with means for heating the gas thereof exclusively in the heater element thereof. 2,535,519, Dec. 26.

Ritchie, Franklin A., Charlotte, N. C. Picker stick check for looms. 2,535,814, Dec. 26.

Rius, Pedro V., Igualada, Spain. Embroidering machine. 2,535,456, Dec. 26.

Roach, Earl M., assignor to Arvey Corporation, Chicago, Ill. Collapsible step display. 2,535,160, Dec. 26.

Robbins, Clyde F., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,535,161, Dec. 26.

Roberts, Leonard C.: *See*— Anderson, Eugene A., and Roberts.

Roberts, Roland Q., Chicago, Ill. Jumping frog toy. 2,535,868, Dec. 26.

Roberts, William F., Crawford, Nebr. Moving truck. 2,535,457, Dec. 26.

Robertshaw-Fulton Controls Company, assignee: *See*— Branson, Charles D.
Watkins, William M., Jr.

Robeson, Max D., Corpus Christi, Tex., assignor to Celanese Corporation of America. Production of formals. 2,535,458, Dec. 26.

Robinson, Preston, Williamstown, W. M. Allison, North Adams, and N. E. Beverly, Williamstown, assignors to Sprague Electric Company, North Adams, Mass. Impulse generating system and network therefor. 2,535,093, Dec. 26.

Rodgers, Lionel M., Springfield Township, Montgomery County, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Position indication and control system for moving objects or vehicles. 2,535,162, Dec. 26.

Rodic Rubber Corporation, assignee: *See*— Ediand, Laurence.

Roehm, Erwin G.: *See*— Romaine, Millard, and Roehm.

Roggensack, Lutie A., Fargo, N. Dak. Forming screw jacks with concrete bases. 2,535,956, Dec. 26.

Rohm & Haas Company, assignee: *See*— Hollander, Charles S., and Bock.

Romaine, Millard, and E. G. Roehm, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Precision positioning mechanism. 2,535,957, Dec. 26.

Ronceray, Robert, Thiais, France. Air-line lubricator. 2,535,756, Dec. 26.

Roode, Delanoy E., assignee: *See*— Redinger, Clarence V.

Roodner, Sylvia, New York, N. Y. Petticoat. 2,535,459, Dec. 26.

Rooney, John L., Chicago, Ill. Adjustable eyeglasses. 2,535,321, Dec. 26.

Roos, William J., Sharon, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,535,697, Dec. 26.

Root, John J., New York, N. Y. Peripherally driven electroacoustical transducer. 2,535,757, Dec. 26.

Rosenkranz, George: *See*— Kaufmann, Stephen, and Rosenkranz.

Rosoff, Sumner: *See*— Rawl, Philip, and Rosoff.

Ross, Alfred, Bloomfield, assignor to Aircraft Corrugated Corporation, Harrison, N. J. Shipping case. 2,535,233, Dec. 26.

Rothwell, John C.: *See*— Pastore, Michael W., and Rothwell.

Rotter, Lutwin C., Maplewood, and A. T. Laspe, Normandy, assignors to Lincoln Engineering Company, St. Louis, Mo. Hose coupling. 2,535,460, Dec. 26.

Ruau, Felix F.: *See*— Molins, Desmond W., Ruau, and Dearsley.

Rubinstein, Helena, Inc., assignee: *See*— Libson, Philip.

Rummelsburg, Alfred L.: *See*— Koch, William, and Rummelsburg.

Rupnow, Harvey W., assignee: *See*— Economous, William.

Russell, Ernest S., Wraysbury, England. Air siren giving sharp tones of short duration. 2,535,520, Dec. 26.

Rust, Frederick F., Oakland, A. R. Stiles, and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Peroxy-substituted persulfonates. 2,536,008, Dec. 26.

Sakirsky, Jack, Bridgeport, Conn., assignor to J. B. Lew, Brooklyn, N. Y. Tension testing apparatus for electric sockets and wire connections. 2,535,988, Dec. 26.

Samiran, David, Fort Wayne, Ind. Continuous flow multiple tank fuel system. 2,535,094, Dec. 26.

Sarazin, Gilles F., Paris, France. Centrifugal pendulum vibration damper. 2,535,958, Dec. 26.

Satrian, Rudy A., Chattanooga, Tenn. Hair-waving device. 2,535,959, Dec. 26.

Schaefer, Walter S., Euclid, and T. M. Bowes, South Euclid, assignors to Republic Steel Corporation, Cleveland, Ohio. Inside burr removing apparatus. 2,535,653, Dec. 26.

Schaeffer, Gerald and S., Chicago, Ill. Multiple bulb floodlight mounting for cameras. 2,535,372, Dec. 26.

Schaeffer, Sam: *See*— Schaeffer, Gerald and S.

Schiermeier, Knapel F., Alton, and W. E. Heinz, Roxana, Ill., assignors to Shell Development Company, San Francisco, Calif. Preparing wax compositions. 2,535,604, Dec. 26.

Schmidt, August, Jr., Schenectady, N. Y., assignor to General Electric Company. Electric valve excitation circuit. 2,535,698, Dec. 26.

Schmidt, Lewis W., Rio Vista, Calif., assignor of twenty-one and one-fourth per cent to C. A. Loucks, thirty-six and one-fourth per cent to L. K. Schmidt, twenty-one and one-fourth per cent to A. M. Jongeneel, and twenty-one and one-fourth per cent to H. G. du Bose, executrix of G. P. du Bose, deceased. Tractor-mounted beet harvester. 2,535,960, Dec. 26.

Schmidt, Lloyd K., assignee: *See*— Schmidt, Lewis W.

Schmidt, Willy A., and J. A. Sprung, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Preparation of azine dyestuff images. 2,536,010, Dec. 26.

Schneider, Julius L., Chicago, and R. J. Evans, Bensenville, Ill., assignors to Continental Can Company, Incorporated, New York, N. Y. Thiourea impregnated sealing compound. 2,535,869, Dec. 26.

Schnell, Frank A., Scotia, and E. L. Thearle, Rexford, N. Y., assignors to General Electric Company. Rotating antenna. 2,535,699, Dec. 26.

Schoenrock, Otto R., Oak Park, Ill., assignor to J. I. Case Company, Racine, Wis. Preheating system for internal-combustion engines. 2,535,758, Dec. 26.

Schoepfer, Alfred C., St. Petersburg, Fla. Garment hanger. 2,535,521, Dec. 26.

Schrick, Paul: *See*— McGovern, Edward M., and Schrick.

Schroeder, Alfred C., Feasterville, Pa., assignor to Radio Corporation of America. Color television apparatus. 2,535,552, Dec. 26.

Schutt, Walter G., assignor to Stearns Manufacturing Company, Adrian, Mich. Hoist or off-bearer. 2,535,961, Dec. 26.

Schwantner, Helen, assignee: *See*— Schwantner, Joseph C.

Schwantner, Joseph C., assignor of one-half to H. Schwantner, Chicago, Ill. Hydraulic bumper jack. 2,535,759, Dec. 26.

Schwartz, Daniel E., Narrowsburg, and R. E. Kemelhor, Bronx, N. Y. Bomb shackle release. 2,535,095, Dec. 26.

Schwartz, Leo, New York, N. Y. Fabric guide for sewing machines. 2,535,234, Dec. 26.

Scivally, Herschell R., Shreveport, La. Well logging recorder. 2,535,096, Dec. 26.

Scott, Donald L.: *See*— Churchill, Donald L., and Scott.

Scott, Joseph E., Pratt, Kans. Instrument for determining size and location of anterior teeth. 2,535,163, Dec. 26.

Scoville Manufacturing Company, assignee: *See*— Seyfried, Arthur W.

Sears, Roebuck and Co., assignee: *See*— Ives, Clifford E.

Seavey, Gordon C.: *See*— Horsley, Caperton B., and Seavey.

Seavey, Gordon C., Arlington, and C. B. Horsley, Westwood, assignors to Ultrasonic Corporation, Cambridge, Mass. Agglomerating and recovering aerosol particles. 2,535,700, Dec. 26.

Sedwick, Matthew M., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Square can vacuum closing machine. 2,535,870, Dec. 26.

Seeger, Edward B., Philadelphia, assignor to Samuel M. Langston Co., Camden, N. J. Mill roll stand. 2,535,815, Dec. 26.

Seghers, Paul D., New York, N. Y. Brake mechanism. 2,535,097, Dec. 26.

Seibel, Charles M., Wichita, Kans. Control mechanism for helicopters. 2,535,164, Dec. 26.

Seidler, Frederic A.: *See*— Kovacs, Frank G., and Seidler.

Seigh, Joseph W., Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Dispensing container for powdered materials. 2,535,871, Dec. 26.

Servel, Inc., assignee: *See*— Taylor, Robert S.

Seyfried, Arthur W., Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vacuum cleaner with automatic nozzle height adjustment. 2,535,322, Dec. 26.

Seymour, Malcolm: *See*— Hart, George T., and Seymour.

Shafer, William L., Mount Lebanon, Pa., assignor to American Telephone and Telegraph Company. Signalling system. 2,535,872, Dec. 26.

Shapiro, Harry S.: *See*— Bachil, Herman, and Shapiro.

Shapiro, Hymin: *See*— Calingaert, George, and Shapiro.

Shapiro, Hymin, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Manufacture of tetraalkyllead. 2,535,235, Dec. 26.

Shapiro, Hymin, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Preparation of tetraalkyllead. 2,535,236, Dec. 26.

Shapiro, Hymin, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Preparation of tetraalkyllead. 2,535,237, Dec. 26.

Shaw, Stanley W., Galesburg, Kans. Garden tractor. 2,535,701, Dec. 26.

Shawinigan Chemicals Limited, assignee: *See*— Benson, Gwyn, and Perks.

Shearer, Howard E., Swarthmore, and A. R. Martin, Springfield, Pa., assignors to American Viscose Corporation, Wilmington, Del. Molded objects. 2,535,373, Dec. 26.

Sheinman, Harry, Laurelton, N. Y. Curtain construction. 2,535,238, Dec. 26.

Shell Development Company, assignee: *See*— Haury, Vernon E., and Ballard.
Rust, Frederick F., Stiles, and Vaughan.
Schiermeier, Knapel F., and Heinz.
Thurston, William H.
Wolff, Harold I.

Sherman, Felix, Glassport, Pa. Bracket for signal lanterns. 2,535,962, Dec. 26.

Sherman, Otis R., New York, and S. Jacovelli, Brooklyn, N. Y. Automatic sludge drain for airbrake systems. 2,535,760, Dec. 26.

Shoemaker, Charles H., Glendale, Calif. Accessory for flown kites. 2,535,165, Dec. 26.

Shorey, Seth U., Oakland, Mo., and G. W. Wright, Boston, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Gamma-valerolactone and gamma-butyrolactone as dyeing assistants for cellulose ester and ether yarns and fabrics. 2,535,098, Dec. 26.

Sieving, Alfred W.: *See*— Burks, George E., Bridwell, Lundberg, and Sieving.

Sigmund, Miroslav, Gosforth, England. Coupling for pipes and other tubular elements. 2,535,816, Dec. 26.

Simon, Max C., Jamaica, N. Y. Concealed caster unit for furniture. 2,535,654, Dec. 26.

Simpson, George K.: *See*— Traill, David, and Simpson.

Sindar Corporation, assignee: *See*— Kunz, Eric C., and Gump.

Singer Manufacturing Company, The, assignee: *See*— Turner, Edgar P.

Sisemore, Marshall G., Tulsa, Okla. Vacuum cleaner. 2,535,963, Dec. 26.

Skeats, Wilfred F., Lansdowne, and T. R. Coggeshall, Bala Cynwyd, Pa., assignors to General Electric Company. Electric circuit interrupter. 2,535,702, Dec. 26.

Skellett, Albert M., Madison, assignor to National Union Radio Corporation, Orange, N. J. Electronic organ. 2,535,323, Dec. 26.

Skellett, Albert M., Madison, assignor to National Union Radio Corporation, Orange, N. J. Electrooptical dark trace storage tube. 2,535,817, Dec. 26.

Skillman, Thomas S., Mosman, near Sydney, assignor to Punch Engineering Pty. Limited, Camneray, near Sydney, New South Wales, Australia. Article dispensing system. 2,535,461, Dec. 26.

Sklar, Samuel, New York, N. Y. Drapery and curtain hanger. 2,535,655, Dec. 26.

Skolnik, Samuel, Los Angeles, Calif. Calculator. 2,535,374, Dec. 26.

Slick, Thomas, assignor to Institute of Industrial Research, San Antonio, Tex. Brush puller. 2,535,099, Dec. 26.

Slopa, George W., Chicago, Ill. Compensating hinge. 2,535,324, Dec. 26.

Smalley, May L., Malden, Mass. Doll and making same. 2,535,818, Dec. 26.

Smeltzer, Raymond F., assignor to Bendix Aviation Corporation, Towson, Md. Automatic volume control. 2,535,325, Dec. 26.

Smith, A. O., Corporation, assignee: *See*— Gruetjen, Frederick A.
Malmsten, Philip C.

Smith, Bernard W., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Projection vibration indicator. 2,535,326, Dec. 26.

Smith, Buford R., Mishawaka, Ind. Sand drier. 2,535,605, Dec. 26.

Smith, Cecil W., Waterman, Ill. Burner nozzle with flame control means. 2,535,166, Dec. 26.

Smith, Charles B.: *See*— Haeff, Andrew V., Hanley, and Smith.

Smith, Clovis W., Worthington, and J. E. Warner, Columbus, Ohio, assignors to Curtiss-Wright Corporation. Aircraft wheel centering mechanism. 2,535,167, Dec. 26.

Smith, Cornelius C., Slocomb, Ala. Drier. 2,535,327, Dec. 26.

Smith, Frank J., Galveston, assignor to Pan American Refining Corporation, Texas City, Tex. Unsaturated hydrocarbon products and making same. 2,535,606, Dec. 26.

Smith, John E., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn. Oxygen-acetylene torch. 2,535,873, Dec. 26.

Smith, Norman A., Saugus, and F. O. Fridell, Lynnfield Center, Mass., assignors to General Electric Company. Lubricating system for gear units. 2,535,703, Dec. 26.

Smith, Norman R., Laurel Springs, N. J. Mailbox switch. 2,535,607, Dec. 26.

Smith, Rex E., Bakersfield, Calif. Electronic impedance meter. 2,535,608, Dec. 26.

Smith, Richard M., Tuscaloosa, assignor of fifty per cent to L. E. Kiedinger, Birmingham, Ala. Apparatus for making molds. 2,535,656, Dec. 26.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Timing device for washing machines. 2,535,168, Dec. 26.

Smith, Victor K., Jr.: *See*— Kushner, Samuel, and Smith.

Smith Welding Equipment Corporation, assignee: *See*— Smith, John E.

Snyder, William R., and M. F. Eaton, Galeton, Pa. Infant's toilet training chair. 2,535,704, Dec. 26.

Societe Anonyme des Usines Chausson, assignee: *See*— Chausson, Gaston.

Societe d'Etudes de Machines Speciales, assignee: *See*— Armelin, Maurice F.

Societe d'Etudes pour L'Industrie du Magnesium, assignee: *See*— Bassereau, Georges J. A.

Société dite: Saint Freres, Societe-Anonyme, assignee: *See*— Pelcé, Henri.

Societe "Rhodiaceta," assignee: *See*— Mouchiroud, Antoine F. G.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*— Broding, Robert A.
Caan, Albert J. Z.
McGuckin, Glenn M.

Sola Electric Company, assignee: *See*— Sola, Joseph G.

Sola, Joseph G., River Forest, assignor to Sola Electric Company, Chicago, Ill. Alternating current supply system. 2,535,169, Dec. 26.

Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Sound recording system. 2,535,657, Dec. 26.

Somerville, Thomas S., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Hook forming apparatus for rods and wire. 2,535,328, Dec. 26.

Sourwine, James A., Washington, D. C. Prestressing cement products. 2,535,100, Dec. 26.

Southern Saw Service, Inc., assignee: *See*—
Anderson, Eugene A., and Roberts.

Sowa, Frank J., Cranford, N. J. Caster oil-organo silicon reaction products and the production thereof. 2,535,239, Dec. 26.

Sperry Corporation, The, assignee: *See*—
Curry, Robert S., Jr.
Rawlins, Joseph A.

Sperry Products, Inc., assignee: *See*—
Drake, Harcourt C., Bendz, and Mesh.

Spiller, William R. and E. R. Bradmiller, Dayton, Ohio, assignors to Harris-Seybold Company. Feeding mechanism. 2,535,240, Dec. 26.

Spillman, Hal H., Wichita, Kans. Phonographic record rack and selector. 2,535,609, Dec. 26.

Sprague Electric Company, assignee: *See*—
Robinson, Preston, Allison, and Beverly.

Spraying Systems Co., assignee: *See*—
Wahlin, Fred W.

Sproule, Lorne W., and W. C. Pattenden, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Sulfonate base lubricating grease. 2,535,101, Dec. 26.

Sprung, Joseph A.: *See*—
Schmidt, Willy A., and Sprung.

Stamberg, Olof E.: *See*—
Stoelting, Carl R., Stamberg, and Vilter.

Stamper, William Y., Newark, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electric safety lamp. 2,535,819, Dec. 26.

Standard Oil Company, assignee: *See*—
Johnson, Everett A.

Standard Oil Development Company, assignee: *See*—
Cohen, Charles A.
Sproule, Lorne W., and Pattenden.

Stange, Wm. J. Co., assignee: *See*—
Fonyo, Aladar.

Stanolind Oil and Gas Company, assignee: *See*—
Walker, Scott W., and Latta.

Stanton, Austin N., Garland, assignor of fifty per cent to J. J. Fleet, San Antonio, Tex. Casing cutting. 2,535,964, Dec. 26.

Stark, Harold W., and R. A. Grant, Marinette, Wis. Pliers. 2,535,375, Dec. 26.

Starn, Roy E., Greenfield, Ohio. Life jacket. 2,535,874, Dec. 26.

Starnes, William C.: *See*—
Stevens, Donald R., and Starnes.

Stearns Manufacturing Company, assignee: *See*—
Schutt, Walter G.

Stearlite Research Corporation, assignee: *See*—
Albers-Schoenberg, Ernst.

Stelgerwalt, Oliver L., Niagara Falls, N. Y., assignor to the United States of America as represented by the Secretary of War. Arrangement for coupling a parallel resonant line to a coaxial line load. 2,535,329, Dec. 26.

Stengel, Leonard A., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of alkali metal nitrates. 2,535,989, Dec. 26.

Stengel, Leonard A., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of sodium nitrate. 2,535,990, Dec. 26.

Stephens, Cecil H., assignee: *See*—
Collier, Millard.

Stephenson, Doris G., Denver, Colo. Bobby pin opener. 2,535,170, Dec. 26.

Stevens, Brooks, Jr., Concord, assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular, independent needle, knitting machine. 2,535,991, Dec. 26.

Stevens, Donald R., Wilkinsburg, and W. C. Starnes, assignors to Gulf Research & Development Company, Pittsburgh, Pa. 4-neopentyl-1,2-dithia-4-cyclopentene-3-thione and 4-methyl-5-tertiary-butyl-1,2-dithia-4-cyclopentene-3-thione. 2,535,705, Dec. 26.

Stevens, Donald R., Wilkinsburg, and A. C. Whitaker, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. 4-methyl-1,2-dithia-4-cyclopentene-3-thione. 2,535,706, Dec. 26.

Stevenson, Carl E.: *See*—
Willing, Joseph E., Duffy, and Stevenson.

Stewart, Daniel W., Jr., Renfrew, J. Mitchell, Toronto, and C. V. Matthews, Calabogie, Ontario, Canada, assignors to Calabogie Floors Limited. Method and apparatus for producing tiles. 2,535,241, Dec. 26.

Stewart, Floyd D.: *See*—
Mathes, Rogers A., and Stewart.

Stewart, Hugh W.: *See*—
Turner, Richard J., and Stewart.

Stewart-Warner Corporation, assignee: *See*—
Raisch, Charles F.
Tramontini, Vernon N.

Stewart, William D., Yonkers, assignor to The B. F. Goodrich Company, New York, N. Y. Plant growth regulants. 2,535,875, Dec. 26.

Stewart, William D., Yonkers, assignor to The B. F. Goodrich Company, New York, N. Y. Beta-(heterocyclic-thio) propionic acid and derivatives as plant stimulants. 2,535,876, Dec. 26.

Stewart, William D., Yonkers, assignor to The B. F. Goodrich Company, New York, N. Y. Plant growth regulants. 2,535,877, Dec. 26.

Stigter, Willem H., Eindhoven, Netherlands, assignor to Hartford National Bank & Trust Company, Hartford, Conn., as trustee. Shell-shaped heater with regenerator for hot-gas engines. 2,535,522, Dec. 26.

Stiles, Alan R.: *See*—
Rust, Frederick F., Stiles, and Vaughan.

Stoelting, Carl R., Oconomowoc, O. E. Stamberg, Waukesha, and E. F. Vilter, assignors to Industrial Research Laboratories, Milwaukee, Wis. Continuous freezing machine. 2,535,462, Dec. 26.

Stokes, F. J., Machine Company, assignee: *See*—
Flosdorf, Earl W.

Stone, Warren B., Phoenix, Ariz. Swinging telephone bracket. 2,535,330, Dec. 26.

Stoner, Arthur M., West Hartford, assignor to The Hartford Products Corporation, Hartford, Conn. Fruit juice extractor with a pivotally mounted rotatable reamer. 2,535,553, Dec. 26.

Strom, Robert, Queens Village, N. Y. BX cable connector. 2,535,658, Dec. 26.

Stuart, Clarence C., assignor to Traffic Transport Engineering, Inc., Dearborn, Mich. Auxiliary top with folding seats. 2,535,242, Dec. 26.

Stubnitz-Greene Spring Corporation, assignee: *See*—
Stubnitz, Maurice.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Automobile seat. 2,535,463, Dec. 26.

Subbarow, Yellapragada: *See*—
Hultquist, Martin E., and Subbarow.

Sullivan, Stephen L.: *See*—
Anderson, Nelson E., and Sullivan.

Sundstrom, Harold C., Chicago, Ill. Heat sealing device. 2,535,171, Dec. 26.

Sunroe Refrigeration Company, assignee: *See*—
Morrison, Orville C., and S. O., Wehrwein, and Gott.

Sunstein, David E.: *See*—
Mankin, Arthur H., and Sunstein.

Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.

Sutton, Boyce T.: *See*—
Sutton, James C. and B. T.

Sutton, James C. and B. T. Lyman, S. C. Powder applicator for printing machines. 2,535,965, Dec. 26.

Swarts, Lewis E., Jr., Cambridge, Mass., assignor, by mesne assignments to the United States of America as represented by the Secretary of War. Wave guide antenna. 2,535,331, Dec. 26.

Sweeney, B. K., Manufacturing Company, assignee: *See*—
Sweeney, John F., Able, and MacKay.

Sweeney, John F., E. T. Able, and I. A. MacKay, assignors to B. K. Sweeney Manufacturing Company, Denver, Colo. Disk record vending machine. 2,535,332, Dec. 26.

Swenson, Carl E., Rockford, Ill. Dustproof bearing for sickles. 2,535,878, Dec. 26.

Swyers, Carl, St. Albans, W. Va. Can puncturing device. 2,535,333, Dec. 26.

Sylvania Electric Products Inc., assignee: *See*—
Bouchard, George H.
Gartner, Stanley J., and Barrett.
Payne, Elmer C.

Syntex, S. A., assignee: *See*—
Kaufmann, Stephen, and Rosenkrans.

Sypkens, Gabriel L.: *See*—
Rinia, Herre, de Brey, Van Weenen, Boers, Sypkens, and van Heeckeren.

Szymanski, Stephen S., Holyoke, Mass. Cigarette case. 2,535,761, Dec. 26.

Talon, Inc., assignee: *See*—
Clarke, Frank W.

Tapp, Ernest T. J., and J. Davey, Fleet, assignors to Pest Control Limited, Harston, Cambridgeshire, England. Mechanism for adjusting the spacing of traction drive means for variable track vehicles. 2,535,762, Dec. 26.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Dialkyl 2-alkoxyethanephosphonates and preparing. 2,535,172, Dec. 26.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. 3-phosphonopropane-1,1-dicarboxylic acid esters and preparation. 2,535,173, Dec. 26.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Mercaptoethanephosphonates. 2,535,174, Dec. 26.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Nitroalkanephosphonates. 2,535,175, Dec. 26.

Taylor, James W., Los Angeles, Calif. Shoe heel. 2,535,102, Dec. 26.

Taylor, Robert S., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Ice tray. 2,535,176, Dec. 26.

Taylor, Stanford E., Levittown, N. Y. Timed reading device. 2,535,243, Dec. 26.

Technicolor Motion Picture Corporation, assignee: *See*—
Pohl, Wadsworth E.

Temple, Hiram E., Los Angeles, Calif. Train fusee discharger. 2,535,820, Dec. 26.

Teplitz, Alfred, Pittsburgh, Pa. Electrolytic apparatus for cleaning strip. 2,535,966, Dec. 26.

Texas Company, The, assignee: *See*—
Atwell, Harold V.
Herzog, Gerhard.

Thearle, Ernest L.: *See*—
Schnell, Frank A., and Thearle.

Thévenaz, Jean, Sainte-Croix, Switzerland, assignor to Paillard S. A. Device for maintaining a section of a band in lateral position whilst being subjected to a forward movement. 2,535,334, Dec. 26.

Thevenin, Marcel, Champagnole, France. Apparatus for chill casting. 2,535,335, Dec. 26.

Thiermann, Estelle, Chicago, Ill. Device for washing vegetables and the like. 2,535,967, Dec. 26.

Thomas, Lucius P., Jr., Collingswood, N. J., assignor to Radio Corporation of America. Amplitude and frequency discriminatory gating circuit. 2,535,821, Dec. 26.

Thompson, Claude V., assignee: *See*—
Tisdale, Shirley T.

Thompson Grinder Company, The, assignee: *See*—
Wilson, John C.

Thompson, Louis A., Rocky River, assignor to NEA Service, Inc., Cleveland, Ohio. Photographic facsimile recorder using a crater lamp. 2,535,610, Dec. 26.

Thompson, Louis A., Rocky River, assignor to NEA Service, Inc., Cleveland, Ohio. Frequency modulated picture receiver. 2,535,611, Dec. 26.

Thompson, Thomas R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Thiazolone cyanine dye intermediates. 2,535,992, Dec. 26.

Thompson, Thomas R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Preparing trinuclear cyanine dyes. 2,535,993, Dec. 26.

Thompson, Thomas R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Preparing trinuclear cyanine dyes containing a terminal 5-and 6-membered heterocyclic ring system. 2,535,994, Dec. 26.

Thompson, Thomas R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic emulsions containing trinuclear cyanine dyes. 2,535,995, Dec. 26.

Thompson, Virginia C., Arlington, Va. Irrigation tray for administering enemas to babies. 2,535,336, Dec. 26.

Thompson, Wirt L., Jr., Fairfield, Conn., assignor to American Viscose Corporation, Wilmington, Del. Twisted yarn-like structure and producing it. 2,535,376, Dec. 26.

Thorn, Electrical Industries Limited, assignee: *See*—
Kember, Raymond C.

Throdahl, Monte C.: *See*—
Beaver, David J., and Throdahl.

Thurston, Jack T., Cos Cob, and D. W. Kaiser, Stamford, Conn., assignors to American Cynamid Company, New York, N. Y. Heterocyclic guanamines. 2,535,968, Dec. 26.

Thurston, William H., Contra Costa, assignor to Shell Development Company, San Francisco, Calif. Close-coupled electrical transformer. 2,535,554, Dec. 26.

Tilly, James O., Tulsa, Okla. Letter and package opener. 2,535,535, Dec. 26.

Timken Roller Bearing Company, The, assignee: *See*—
Mills, John P.

Tinnerman, Albert H., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Sheet metal spring clip with clasp means. 2,535,879, Dec. 26.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, Albert H.

Tisdale, Shirley T., assignor, by mesne assignments, of five per cent to C. V. Thompson and five per cent to M. M. Braly, Ada, Okla. Automatic rotary drill pipe holder. 2,535,464, Dec. 26.

Titterton, Ernest W., Harwell, Didcot, England, assignor to the United States of America as represented by the United States Atomic Energy Commission. Coincidence circuit. 2,535,377, Dec. 26.

Toensfeldt, Kurt, Port Washington, N. Y., assignor to Combustion Engineering-Superheater, Inc. Control means for electric steam generators. 2,535,589, Dec. 26.

Tomkins, Walter M., Hinsdale, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Can arranging and bagging method and apparatus. 2,535,880, Dec. 26.

Tootal Broadhurst Lee Company Limited, assignee: *See*—
Fouids, Robinson P.

Topham, Laurence E., Wenham, and G. P. S. Cross, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for forming a hinge surface on a last block. 2,535,465, Dec. 26.

Torrington Manufacturing Company, The, assignee: *See*—
Murray, John M.

Toth, Emerick, Takoma Park, Md. Miniature acorn-tube socket with floating contacts. 2,536,011, Dec. 26.

Traffic Transport Engineering, Inc., assignee: *See*—
Stuart, Clarence C.

Traill, David, Ardrossan, and G. K. Simpson, Fairlie, Scotland, assignors to Imperial Chemical Industries Limited. Improving the strength of artificial insolubilized protein filaments. 2,535,103, Dec. 26.

Tramontini, Vernon N., Indianapolis, Ind., assignor to Stewart-Warner Corporation, Chicago, Ill. Heater control system with time-delay switch. 2,535,969, Dec. 26.

Treloar, Stanford L., and J. G. Innes, Toronto, Ontario, Canada. Comb. 2,535,612, Dec. 26.

Trevisan, Bruno, assignor to Papierfabrik Balsthal A. G., Balsthal, Switzerland. Paper machine. 2,535,970, Dec. 26.

Trible, Winthrop: *See*—
Buckles, John Q., Lensky, and Trible.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Trott, Frank R.: *See*—
White, Eric L. C., and Trott.

Trubenizing Process Corporation, assignee: *See*—
Liebowitz, Benjamin.

Tucker Corporation, assignee: *See*—
Lyman, Kenneth E.
Tucker, Preston T.

Tucker, Preston T., Ypsilanti, Mich., assignor to Tucker Corporation, Chicago, Ill. Fluid pressure operated disk brake. 2,535,763, Dec. 26.

Turner Brass Works, assignee: *See*—
Vanderbeek, Willard F.

Turner, C. Neal, assignor to The Eclipse Lawn Mower Co., Prophetstown, Ill. Shock absorbing handle for power mowers. 2,535,466, Dec. 26.

Turner, Edgar P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Carbon pile rheostat. 2,536,012, Dec. 26.

Turner, John L., East St. Louis, Ill., assignor to W. N. Matthews Corporation, St. Louis, Mo. Fuse switch. 2,535,822, Dec. 26.

Turner, Richard J., Somerville, and H. W. Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. 1-carbalkoxy-4-substituted piperazines. 2,535,971, Dec. 26.

Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Electric switch. 2,535,556, Dec. 26.

Uhlmann, Erich Ludvika, assignor to Allmana Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Ionic valves with resistance igniter. 2,535,467, Dec. 26.

Ultrasonic Corporation, assignee: *See*—
Horsley, Caperton B., and Seavey.
Seavey, Gordon C., and Horsley.

United Air Lines, Inc., assignee: *See*—
Lebert, Herbert A.

United Last Company, assignee: *See*—
Loewer, Henry F., and Porter.

United Shoe Machinery Corporation, assignee: *See*—
Hart, George T., and Seymour.
Topham, Laurence E., and Cross.

United States Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Frank, Ernest, and Mozley.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Baker, William R., and Kerns.
Froman, Darol K.
Hainer, Raymond M.
Titterton, Ernest W.
Watson, George R.

United States Envelope Company, assignee: *See*—
Heywood, Vincent E.

United States Gypsum Company, assignee: *See*—
Cumfer, Donald A.

United States Rubber Company, assignee: *See*—
Cady, John E., and Mulbarger.
Gartrell, Robert D.
Tawney, Pliny O.

U. S. Thermo Control Co., assignee: *See*—
Jones, Frederick M.

Universal Oil Products Company, assignee: *See*—
Gleim, William K. T., and Chenicek.
Kassel, Louis S.

Utica Drop Forge & Tool Corporation, assignee: *See*—
Barnes, William A.

Van Ausdall, Carl, Liberty, Ind. Garden tractor. 2,535,614, Dec. 26.

Van Ausdall, Carl, Liberty, Ind. Garden tractor. 2,535,615, Dec. 26.

Van Benschoten, Lloyd C., Schenectady, N. Y. Pencil attachment. 2,535,823, Dec. 26.

Vanderbeek, Willard F., assignor to Turner Brass Works, Sycamore, Ill. Lavatory leg assembly. 2,535,613, Dec. 26.

Vangor, William, Bridgeport, Conn. Micrometer height gauge. 2,535,881, Dec. 26.

Van Heeckeren, Willem J.: *See*—
Rinia, Herre, de Brey, Van Weenen, Boers, Sypkens, and van Heeckeren.

Van Mierlo, Stanislas, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Selective signaling equipment only operative by two-voice frequencies. 2,535,104, Dec. 26.

Van Voorhis, William G., and A. J. Helder, Columbus, Ohio. Hydraulically-actuated apparatus for expressing liquids from floor mops. 2,535,244, Dec. 26.

Van Weenen, Franciscus L.: *See*—
Rinia, Herre, de Brey, van Weenen, Boers, Sypkens, and van Heeckeren.

Vaughan, William E.: *See*—
Rust, Frederick F., Stiles, and Vaughan.

Vezey, Edward E., Jr., Schenectady, N. Y., assignor to General Electric Company. Combined kitchen cabinet and ventilating hood. 2,535,707, Dec. 26.

Vibbert, Burton L., Euclid, Ohio. Battery-charging table. 2,535,523, Dec. 26.

Vidal, Charles H., deceased, London, England; E. M. Vidal, executrix. Collet and chuck jaws. 2,535,105, Dec. 26.

Vidal, Charles H., deceased, London, England; E. M. Vidal, executrix. Self-centering chuck. 2,535,106, Dec. 26.

Vidal, Eileen M., executrix: *See*—
Vidal, Charles H.

Villane, Michael P., Hyde Park, C. G. Dailey, West Medford, and F. R. Wisentaner, Roxbury, Mass.; said Dailey assignor to said Villane and said Wisentaner. Bottle contents quantity indicator. 2,534,882, Dec. 26.

Vilter, Ernest F.: *See*—
Stoelting, Carl R., Stamberg, and Vilter.

Vinton, John, San Francisco, Calif. Coffee maker. 2,535,378, Dec. 26.

Vitafreeze Equipment, Inc., assignee: *See*—
Rasmussen, Marlin B.

Vitalis, Emil A., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Alkylbenzenesulfonate detergents containing guanidine salts of inorganic acids. 2,535,972, Dec. 26.

Vlach, John J., assignor to General Electric X-Ray Corporation, Milwaukee, Wis. X-ray generator. 2,535,708, Dec. 26.

Voges, Frederick, assignor to Advertising Ingenuities, Inc., Chicago, Ill. Toy tenpin game. 2,535,973, Dec. 26.

Volgenau, Robert H., Buffalo, and J. M. Hooe, Ogdensburg, N. Y. Closure for beehive smokers. 2,535,177, Dec. 26.

Vonada, Edwin E.: *See*—
Winterhalter, William E., and Vonada.

Von Bank, Albert J., Armstrong, Iowa. Combination coupling pin and lifting hook. 2,535,468, Dec. 26.

Voss, John H., Rochester, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Two-party metering and line adapter. 2,535,765, Dec. 26.

Voss, John H., and R. W. Jones, Rochester, N. Y., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay automatic telephone system. 2,535,764, Dec. 26.

Wachtel, Hilbert A.: *See*—
Margolis, Ely S., and Wachtel.

Wadman, Ludus E., Mill Valley, and F. J. Gomes, Tiburon, Calif. Bullet lubricator. 2,535,616, Dec. 26.

Waechter, Harry J., Mount Healthy, assignor to P. Benninghofen and E. C. Diesbach, Hamilton, Ohio, as trustees. Arresting means for autographic registers. 2,536,013, Dec. 26.

Wah Chang Trading Corporation, assignee: *See*—
Li, Kuo Ching, and Dice.

Wahlberg, Eric C., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Commutator. 2,535,824, Dec. 26.

Wahlberg, Eric C., Stamford, assignor to Electrolux Corporation, Old Greenwich, Conn. Commutator. 2,535,825, Dec. 26.

Wahlin, Fred W., Oak Park, assignor to Spraying Systems Co., Chicago, Ill. Guard for nozzle spray deflectors. 2,535,766, Dec. 26.

Walker, Scott W., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Separation of organic oxygenated compounds from hydrocarbons. 2,535,071, Dec. 26.

Walker, Scott W., and J. E. Latta, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Separation of organic oxygenated compounds from hydrocarbons. 2,535,070, Dec. 26.

Walker, Wilbur E., Wichita, Kans. Auxiliary keyboard. 2,535,178, Dec. 26.

Wallace, Marcel, Fairfield County, Conn., assignor, by mesne assignments, of one-half to Panoramic Radio Corporation, New York, N. Y. Navigational system. 2,535,107, Dec. 26.

Wallsworth, Allan G., and E. C. Nielson, assignors to Harnischfeger Corporation, Milwaukee, Wis. Cupola charging bucket. 2,535,179, Dec. 26.

Walton, Warren L., Schenectady, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Emulsion polymerization of unsaturated organic compounds. 2,535,537, Dec. 26.

Wanke, Karl G., Vienna, Austria. Sprayer. 2,535,469, Dec. 26.

War, United States of America as represented by the Secretary of, assignee: *See*—
Alford, Andrew.
Allen, James S.
Barnes, Thomas G., and Burger.
Berger, France B.
Chance, Britton.
Dicke, Robert H.
Ercolino, Michael D.
Heaton, Roy G.
Steigerwalt, Oliver L.
Swarts, Lewis E., Jr.
Yost, Russell R., Jr.

Warner, Elmer S., Schaumburg Township, Cook County, Ill. Three-phase transformer connection and phase-angle indicator. 2,535,767, Dec. 26.

Warner, John E.: *See*—
Smith, Clovis W., and Warner.

Warshawsky, Isidore, Rocky River, Ohio. Multiple bridge circuit. 2,535,108, Dec. 26.

Watkins, William M., Jr., Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company. Thermostatically controlled pressure cap for radiators. 2,535,974, Dec. 26.

Watson, George R., Chippawa, Ontario, Canada, assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Molding hollow articles from refractory materials under heat and pressure. 2,535,180, Dec. 26.

Way, Arnold D., Bronxville, assignor to The Permutit Company, New York, N. Y. Turbidity detector. 2,535,181, Dec. 26.

Weaver, James C., Richmond, Va. Storage battery cradle. 2,535,975, Dec. 26.

Weaver, Levi A., Kansas City, Kans. Uniform depth of cut woodgrooving machines. 2,535,182, Dec. 26.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Sear mechanism. 2,535,709, Dec. 26.

Wehman, William T., Elyria, Ohio, assignor to National Tube Company. Rotary rolling mill guide. 2,535,976, Dec. 26.

Wehrwein, John G.: *See*—
Morrison, Orville C., and S. O., Wehrwein, and Gott.

Weisserber, Cyrus A., assignor to Hercules Powder Company, Wilmington, Del. Preparing acrylamide. 2,535,245, Dec. 26.

Welch, Lewis W., Detroit, and A. F. Millington, Northville, assignors to Novi Equipment Company, Novi, Mich. Chuck assembly. 2,535,246, Dec. 26.

Welsh, Robert J., Rugby, assignor to The English Electric Company Limited, London, England. Free piston internal-combustion gas generator operated at constant compressor clearance volume. 2,535,558, Dec. 26.

Weishman, James R., Cranston, assignor to Grinnell Corporation, Providence, R. I. Flaring tubing. 2,535,470, Dec. 26.

Wertz, Frank G., Cambria, Pa., assignor to Carnegie-Illinois Steel Corporation. Rail fastening device. 2,535,337, Dec. 26.

Westbrook, William C., Grapeland, Tex. Control mechanism for pumps. 2,535,617, Dec. 26.

Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Controller for magnetic induction accelerators. 2,535,710, Dec. 26.

Western Electric Company, Incorporated, assignee: *See*—
Gliss, George E.
Henning, George E.
Smith, Bernard W.
Wolfe, Halley.

Western Pine Mfg. Company Limited, assignee: *See*—
Carman, Harold C.

Western States Machine Company, The, assignee: *See*—
Hertrich, Joseph.

Westinghouse Electric Corporation, assignee: *See*—
Bryant, Ozro N.
Knochel, William J., and Wiener.
Richardson, Earl L.
Roos, William J.

Wetzel, Frank O.: *See*—
Linden, Carl E., and Wetzel.

Whitaker, Arthur C.: *See*—
Stevens, Donald R., and Whitaker.

White, Eric L. C., Iver, and E. A. Newman, Ealing, London, assignors to Electric & Musical Industries Limited, Hayes, England. Synchronising circuit. 2,535,247, Dec. 26.

White, Eric L. C., Iver, and F. R. Trott, Burnham, assignors to Electric & Musical Industries Limited, Hayes, England. Television transmitter switching apparatus. 2,535,471, Dec. 26.

White Laboratories, Incorporated, assignee: *See*—
Brelvogel, Philip J.

White, Leon W., Pittsfield, Mass. Safety ash tray. 2,535,768, Dec. 26.

White, Richard F., assignor to Mullins Manufacturing Corporation, Salem, Ohio. Electric cooking unit. 2,535,379, Dec. 26.

Whitley, James B.: *See*—
Milliman, Nathan, and Whitley.

Wicks, John, Biloxi, Miss., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Switch of the crossbar type. 2,535,769, Dec. 26.

Wiener, Charles: *See*—
Knochel, William J., and Wiener.

Wiggin, Joseph F., Syracuse, N. Y., assignor to General Electric Company. Frequency-compensated television camera circuits. 2,535,711, Dec. 26.

Wigton, Paul L., Denver, Colo. Drying apparatus. 2,535,109, Dec. 26.

Wilcox, John C., Erie, Pa. Flexible coupling. 2,535,338, Dec. 26.

Wild, Rudolf F., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Frequency responsive measuring and controlling apparatus. 2,535,248, Dec. 26.

Wilde, Frederick G., assignor to Paragon Revolute Corporation, Rochester, N. Y. Photographic printer and filter for use therewith. 2,535,770, Dec. 26.

Wilhelm, Paul L., Michigan Township, and F. D. Burns, Michigan City, Ind. Electric psychometer. 2,535,249, Dec. 26.

Williams, Ervin R., assignor to Harrison & Morton Laboratories, Inc., Cuyahoga Falls, Ohio. Vulcanizable rubber composition. 2,535,524, Dec. 26.

Williams, Paul V., Los Angeles, Calif. Portable tent or cabaña structure. 2,535,618, Dec. 26.

Williamson, Robert B., Bluefield, W. Va. Refractory furnace for tobacco barns. 2,535,883, Dec. 26.

Willing, Joseph E., and G. E. Duffy, Sr., Rochester, and C. E. Stevenson, Macedon, assignors to General Railway Signal Company, Rochester, N. Y. Magnetic stick relay. 2,535,977, Dec. 26.

Wilson, Charles P.: *See*—
Nicholson, Finley C., and Wilson.

Wilson, Clarence L., assignee: *See*—
Malvin, Elmer C.

Wilson, Frank E., assignee: *See*—
Malvin, Elmer C.

Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Grinding wheel dressing apparatus. 2,535,183, Dec. 26.

Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Method and apparatus for supplying coolant to grinding wheels. 2,535,184, Dec. 26.

Winco Ventilator Company, assignee: *See*—
Kubatzky, Otto.

Windolph Tractor Company, assignee: *See*—
Attwell, James F.

Winterhalter, William E., Coshocton, and E. E. Vonada, Cleveland, Ohio. Pickup circuit. 2,535,978, Dec. 26.

Wisentaner, Frank R., assignee: *See*—
Villane, Michael P., Dailey, and Wisentaner.

Wishart, Harold B., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Heat-treating wheels. 2,535,110, Dec. 26.

Wishart, Harold B., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Apparatus for heat-treating wheels. 2,535,111, Dec. 26.

Witte, Frank J., Ellwood City, Pa. Mechanism for ejecting articles from elevators. 2,535,979, Dec. 26.

Woeller, Erich O., assignor to Bundy Tubing Company, Detroit, Mich. Device for sizing the ends of tubing. 2,535,339, Dec. 26

Wolf, Monroe, New Orleans, La. Surgical clamp. 2,535,559, Dec. 26.

Wolfe, Fred E., Morgantown, W. Va. Gate valve. 2,535,525, Dec. 26.

Wolfe, Halley, North Hollywood, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple gap erase head for magnetic recording. 2,535,712, Dec. 26.

Wolff, Harold L., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Amorphous silica and making same. 2,535,859, Dec. 26.

Wolford, Walter L., assignor to Clorox Chemical Co., Oakland, Calif. Apparatus for applying bottle collars. 2,535,473, Dec. 26.

Woolley, William J., Chicago, Ill. Humidifier. 2,535,772, Dec. 26.

Wood, Straud K., Hutchinson, Kans. Delayed-action zero set for parking time meters. 2,535,472, Dec. 26.

Woodland, Cecil R., assignor to Automatic Telephone & Electric Company Limited, Liverpool, England. Contact spring operation and drive in automatic switch. 2,535,771, Dec. 26.

Woods, Ralph R., Springfield, Colo. Broom corn cutter. 2,535,884, Dec. 26.

Woody, Ross B., Los Angeles, Calif. Adjustable bedside stand and tray. 2,535,112, Dec. 26.

Wooten, Leland A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protective plating for electrodes. 2,535,713, Dec. 26.

Worn, George A., Greenwich, Conn., and W. E. Brockel, Verona, N. J., assignors to The Lummus Company, New York, N. Y. Evaporator. 2,535,996, Dec. 26.

Wright, Antony: *See*—
Clark, Edwin L., and Wright.

Wright, George W.: *See*—
Shorey, Seth U., and Wright.

Wright, John H., Chicago, Ill. Educational toy. 2,535,619, Dec. 26.

Wynn, Ernest, Thornton, Bradford, England. Air-cooled silencer with plural passages. 2,535,660, Dec. 26.

Yeamans, Charles K., Houston, Tex. Hard-boiled egg-shell remover. 2,535,980, Dec. 26.

Yoder, Joe, Cleveland, Ohio, assignor to General Electric Company. Terminal and seal construction for electric lamps and similar devices. 2,535,773, Dec. 26.

Yost, Russell R., Jr., Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of War. Single side band modulator. 2,535,340, Dec. 26.

Young, Alexander R.: *See*—
Martin, Henry A., Young, and Nelly.

Young, Horace G.: *See*—
Benson, Earl L., Young, and Hunt.

Young, Richard E.: *See*—
Horsley, Caperton B., and Young.

Young, Wilbur B.: *See*—
Jensen, Howard M., and Young.

Zeckman, Jack R., Centralia, Wash. Translation system. 2,535,341, Dec. 26.

Zern, Warren B., Pottstown, Pa. Tank flush ball. 2,535,885, Dec. 26.

Zerpa, Anselmo R., Habana, Cuba. Rotatable chance device. 2,535,474, Dec. 26.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Control means for dynamic braking. A. C. Dyer. Re. 23,312, Dec. 26.

Generator-motor driving system. P. T. Nims. Re. 23,314, Dec. 26.

Neutralizing inductive disturbances in magnetic reproducers. M. Camras. Re. 23,311, Dec. 26.

Transmission system. D. Mitchell. Re. 23,313, Dec. 26.

LIST OF DESIGN INVENTIONS

Advertising display, Neon tube lighted. R. L. Lett and C. Hedrick. 161,349, Dec. 26.

Advertising sign, Illuminable. J. H. Steinberg. 161,396, Dec. 26.

Atomizer. L. D. Petce. 161,368, Dec. 26.

Awning or similar article. J. McGraw. 161,357, Dec. 26.

Bank, Coin savings. H. L. Cooper. 161,318, Dec. 26.

Bathroom unit, Combination. R. Evans. 161,326, Dec. 26.

Beret. I. Zelniker. 161,402, Dec. 26.

Bottle opener, screw driver, and lid opener, Combination. L. V. de Fee. 161,321, Dec. 26.

Box or similar article, Ring. R. L. Chipman, Jr. 161,316, Dec. 26.

Bracelet or similar article. M. Boucher. 161,309, Dec. 26.

Bracelet or the like, Expansible. J. M. Bender. 161,303, Dec. 26.

Bracelet or the like, Expansible. M. Jacoby. 161,342, Dec. 26.

Burner for paint or the like, Utility. A. E. D'Harlingue. 161,323, Dec. 26.

Cabinet, Radio. R. D. Budlong. 161,311, Dec. 26.

Cabinet, Radio. J. P. Marcy. 161,355, Dec. 26.

Cabinet, Radio receiver. D. Painter. 161,364, Dec. 26.

Cabinet, Television receiver. W. H. Clingman. 161,317, Dec. 26.

Car, Amusement. L. E. Blue and V. F. Hodges. 161,308, Dec. 26.

Case for watchman's clock, H. E. Hobby. 161,338, Dec. 26.

Casing for food serving equipment. A. D. Altemiller. 161,299, Dec. 26.

Casket, Burial. P. Schladermundt. 161,380–5, Dec. 26.

Chain for a bracelet or similar article, Expansible. S. Ritter. 161,378, Dec. 26.

Chain for a bracelet or similar article, Link. M. Chernow. 161,314, Dec. 26.

Chest. O. J. Mitchell. 161,360, Dec. 26.

Clock. A. B. Chereton. 161,313, Dec. 26.

Coffee maker. W. P. Biehayn. 161,306, Dec. 26.

Comforter, Bed. M. Katz. 161,346, Dec. 26.

Container, Mothball. R. Levine. 161,351, Dec. 26.

Covering for smooth surfaces. W. B. Petzold. 161,369, Dec. 26.

Crib, Juvenile. J. Risom. 161,377, Dec. 26.

Curler, Butter. W. R. Galter. 161,330, Dec. 26.

Dish, Soap. W. R. Galter. 161,329, Dec. 26.

Doll. P. J. Hueter. 161,339, Dec. 26.

Draw-discard device for card games. F. J. Strassner. 161,399, Dec. 26.

Dressing table and chest of drawers, Combination. B. L. Baldwin. 161,302, Dec. 26.

Engine, Bicycle. F. M. Friedlob. 161,328, Dec. 26.

Fabric or the like. J. Kahn, Jr. 161,345, Dec. 26.

Figurine. P. N. and T. L. Cope. 161,319, Dec. 26.

Firedog. E. C. Sooy. 161,394, Dec. 26.

Gameboard. G. Madieu. 161,352, Dec. 26.

Handbag. S. Nessimoff. 161,362, Dec. 26.

Handle for a burial casket. P. Schladermundt. 161,386–8, Dec. 26.

Handle for stoves or the like. K. Rettich. 161,376, Dec. 26.

Hanger, Garment. J. Weiss. 161,400, Dec. 26.

Hanger, Trouser. A. E. Wurtz. 161,401, Dec. 26.

Heel and soleplate for shoes. S. Gerdodian. 161,331, Dec. 26.

Holder, Book. J. B. Gooken. 161,333, Dec. 26.

Holder, Memo pad. G. B. Miller. 161,358, Dec. 26.

Holder or similar article, Flower. H. H. Isard. 161,341, Dec. 26.

Holder or the like, Broom. F. E. Kabase. 161,343–4, Dec. 26.

Housing, Clock. B. Lerman. 161,348, Dec. 26.

Knob or similar article, Pull-cord. I. H. Steinhardt. 161,397, Dec. 26.

Lamp. H. Eisenberg. 161,325, Dec. 26.

Lantern. M. Kushner. 161,347, Dec. 26.

Link, Jewelry. M. Chernow. 161,315, Dec. 26.

Louvre, Lighting fixture. R. F. Hurley. 161,340, Dec. 26.

Luminaire, Street lighting. D. W. Harling. 161,335, Dec. 26.

Meter, Color temperature. F. F. Crandell. 161,320, Dec. 26.

Overshoe. R. B. Hardman. 161,334, Dec. 26.

Pen, Drawing. H. N. Harris. 161,336, Dec. 26.

Pencil or similar article. M. M. Brown. 161,310, Dec. 26.

Phonograph. N. T. Baldanza. 161,301, Dec. 26.

Phonograph, Portable. R. Scholle. 161,389, Dec. 26.

Plaque. L. Leventhal. 161,350, Dec. 26.

Plate or the like. R. Spreier. 161,395, Dec. 26.

Rack or similar article, Closet shoe. C. T. Manuel. 161,354, Dec. 26.

Receiver, Portable radio. P. Schladermundt and C. L. Metzler. 161,379, Dec. 26.

Respirator or similar article. J. D. Hill. 161,337, Dec. 26.

Ring, Finger. R. K. Duncan. 161,324, Dec. 26.

Ring, Teething. M. Mann. 161,353, Dec. 26.

Ruler, Accountant's. J. Bischof. 161,307, Dec. 26.

Sealer, Carton. J. A. Rademacher. 161,370, Dec. 26.

Shelf, Revolving whatnot. A. Marks. 161,356, Dec. 26.

Shirt, Child's bibbed. A. M. Parker. 161,365, Dec. 26.

Shirt, Sport. S. F. Dennis. 161,322, Dec. 26.

Shoe, House. J. B. Reinhart, Jr. and J. B. Ruebel. 161,371–4, Dec. 26.

Shoulder rest, Telephone hand set. M. Paul. 161,366, Dec. 26.

Spoon, Baby's. H. C. Milne. 161,359, Dec. 26.

Spoon or similar article. M. H. Storch. 161,398, Dec. 26.

Stand, Roadside. L. Zweig. 161,403, Dec. 26.

Stocking. E. J. Berger. 161,304, Dec. 26.

Stocking. H. N. Goodman. 161,332, Dec. 26.

Table, Manicure. P. H. Moore. 161,361, Dec. 26.

Table top or similar article. B. Bunin. 161,312, Dec. 26.

Tone-arm, Phonograph. N. T. Baldanza. 161,300, Dec. 26.

Toy figure, Inflatable. M. M. Bernstein. 161,305, Dec. 26.

Toy vehicle. G. Periman. 161,367, Dec. 26.

Trophy and clock, Combined. H. S. Reinhardt. 161,375, Dec. 26.

Wallpaper or the like. J. Seeman. 161,390–3, Dec. 26.

Watch stand and jewelry holder, Combination. W. Freudenberg. 161,327, Dec. 26.

Wheel, Potter's. E. M. Netherby. 161,363, Dec. 26.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 26TH DAY OF DECEMBER, 1950

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorption refrigeration. W. G. Kögel. 2,535,075, Dec. 26.

Absorption refrigeration system. A. A. Berestneff. 2,535,776, Dec. 26.

Accessory for flown kites. C. H. Shoemaker. 2,535,165, Dec. 26.

Accounting system, Automatic charge. C. Marble. 2,535,218, Dec. 26.

Acetonitrile production. J. E. Mahan. 2,535,082, Dec. 26.

Acylamide, Preparing. C. A. Weisgerber. 2,535,245, Dec. 26.

Adapter plug for chemical vessels. W. O. Luertzing. 2,535,856, Dec. 26

Adhesive composition comprising a rosin alcohol and a butadiene-acrylonitrile copolymer. A. L. Hatfield and H. P. Owen. 2,535,852, Dec. 26.

Adjustable centering gauge. J. F. Donohue. 2,535,051, Dec. 26.

Adjustable ironing board. G. T. Rieter. 2,535,755, Dec. 26.

Agglomerating aerosols. C. B. Horsley and G. C. Seavey. 2,535,679, Dec. 26.

Agglomerating and recovering aerosol particles. G. C. Seavey and C. B. Horsley. 2,535,700, Dec. 26.

Air conditioning unit, Self-contained. C. M. Ashley. 2,535,775, Dec. 26.

Aircraft wheel centering mechanism. C. W. Smith and J. E. Warner. 2,535,167, Dec. 26.

Air dehumidifying apparatus with hygroscopic material spreading means. F. G. Kovacs and F. A. Seidler. 2,535,144, Dec. 26.

Air-line lubricator. R. Ronceray. 2,535,756, Dec. 26.

Air lubricated thrust bearing. J. A. Rawlins. 2,535,454, Dec. 26.

Airway traffic controlling system. N. D. Preston and F. B. Hitchcock. 2,535,954, Dec. 26.

Alkali-metal nitrates, Production of. L. A. Stengel. 2,535,989, Dec. 26.

Alkylbenzenesulfonate detergents containing guanidine salts of inorganic acids. E. A. Vitalis. 2,535,972, Dec. 26.

Alkyllead compounds, Manufacture of. G. Calingaert and H. Shapiro. 2,535,190–2, Dec. 26.

Allyl-substituted 1,3,5-trimethylene trisulfone. E. M. Evans and H. T. Hookway. 2,535,534, Dec. 26.

Alternating current supply system. J. G. Sola. 2,535,160, Dec. 26.

Aminomethyl compounds of the polycyclic diketo series and N-phthaloyl derivatives thereof. D. I. Randall and S. R. Buc. 2,535,987, Dec. 26.

Ammonium chloroiridite solution, Preparation of substantially pure. A. R. Raper and S. J. R. Fothergill. 2,535,551, Dec. 26.

Amorphous silica and making same. H. I. Wolff. 2,535,659, Dec. 26.

Amplitude and frequency discriminatory gating circuit. L. P. Thomas, Jr. 2,535,821, Dec. 26.

Antenna. E. Carlson. 2,535,899, Dec. 26.

Antenna guy fitting. R. Katz. 2,535,072, Dec. 26.

Antenna, Rotating. F. A. Schnell and E. L. Thearle. 2,535,699, Dec. 26.

Antenna structure. L. A. de Rosa. 2,535,049, Dec. 26.

Antenna, Wave guide. L. E. Swarts, Jr. 2,535,331, Dec. 26.

Apparatus for advancing and working plastic material. G. E. Gliss. 2,535,287, Dec. 26.

Apparatus for applying bottle collars. W. L. Wolford. 2,535,473, Dec. 26.

Apparatus for calibrating distant-reading temperature devices. P. Martin. 2,535,083, Dec. 26.

Apparatus for changing vertical mill rolls. R. A. Burkhart. 2,535,898, Dec. 26.

Apparatus for chill casting. M. Thevenin. 2,535,335, Dec. 26.

Apparatus for creping paper and other crepable foils. K. E. L. Grettve. 2,535,734, Dec. 26.

Apparatus for drying. W. W. Letts. 2,535,216, Dec. 26.

Apparatus for expanding tubes in tube seats. W. B. Carlson. 2,535,782, Dec. 26.

Apparatus for forming a hinge surface on a last block. L. E. Topham and G. P. S. Cross. 2,535,465, Dec. 26.

Apparatus for generating acetylene gas. F. Ott. 2,535,227, Dec. 26.

Apparatus for heat-treating wheels. H. B. Wishart. 2,535,111, Dec. 26.

Apparatus for impregnating heat insulating material. C. G. Munters. 2,535,087, Dec. 26.

Apparatus for making molds. R. M. Smith. 2,535,656, Dec. 26.

Apparatus for mensuring and controlling moisture content or the like. W. C. Anderson. 2,535,027, Dec. 26.

Apparatus for preheating molding powders. R. D. Beck. 2,535,829, Dec. 26.

Apparatus for removing scale. H. W. Bouck. 2,535,890, Dec. 26.

Apparatus for solving seismic problems for location and dip of reflecting beds. G. M. McGuckin. 2,535,220, Dec. 26.

Apparatus for treating wood veneer by forming spaced incomplete slits therein. J. Colucci, Jr., and R. G. Redmayne. 2,535,195, Dec. 26.

Apparatus for working and advancing plastic material. G. E. Henning. 2,535,286, Dec. 26.

Appliance for dual heading of hollow rivets. R. E. Froggatt. 2,535,403, Dec. 26.

Applying a form member to a beam or the like. F. Bittner. 2,535,346, Dec. 26.

Arrangement for coupling a parallel resonant line to a coaxial line load. O. I. Steigerwalt. 2,535,329, Dec. 26.

Arresting means for autographic registers. H. J. Waechter. 2,536,013, Dec. 26.

Article divider and delivering device. F. Rasmussen. 2,535,866, Dec. 26.

Article of furniture, Reclining. A. Lorenz. 2,535,687, Dec. 26.

Artificial arm. H. T. Edwards. 2,535,489, Dec. 26.

Ash tray, Safety. L. W. White. 2,535,768, Dec. 26.

Aspirator for administering medicine. J. H. Emerson. 2,535,844, Dec. 26.

Attachment for cleaning apparatus, Spotting table. R. Lyons. 2,535,745, Dec. 26.

Attachment for feed pails, Nipple. J. R. Rhinehart. 2,535,159, Dec. 26.

Attachment for high chairs, Dish. W. G. Boyer and C. E. Dunlap. 2,535,563, Dec. 26.

Attachment for snap-on snow chains. P. Rawl and S. Rosoff. 2,535,601, Dec. 26.

Attachment for tractor brake pedals, Locking and releasing. H. Bintz. 2,535,718, Dec. 26.

Automatic rotary drill pipe holder. S. T. Tisdale. 2,535,464, Dec. 26.

Automatic safety air valve coupling. W. Knopp. 2,535,740, Dec. 26.

Automobile door construction. E. L. Blackman. 2,535,347, Dec. 26.

Automobile seat. M. Stubnitz. 2,535,463, Dec. 26.

Auxiliary vapor generating attachment for therapeutic vapor or gas producing machines. M. Resek. 2,535,516, Dec. 26.

Aza trinuclear cyanine dyes. H. G. Derbyshire. 2,535,982, Dec. 12.

Azine dyestuff images, Preparation of. W. A. Schmidt and J. A. Sprung. 2,536,010, Dec. 26.

Azo dyestuffs. M. Mendoza. 2,535,312, Dec. 26.

Baby carrier. W. S. Kimball. 2,535,683, Dec. 26.

Baby's sleeping bag. R. M. Langley. 2,535,936, Dec. 26.

Bag: *See*—
Baby's sleeping bag.

Bail for cans. T. J. Gorman, Jr. 2,535,676, Dec. 26.

Bait box. E. L. Benson, H. G. Young, and R. B. Hunt. 2,535,256, Dec. 26.

Ball, Tank flush. W. B. Zern. 2,535,885, Dec. 26.

Battery-charging table. F. L. Vibbert. 2,535,523, Dec. 26.

Battery cradle, Storage. J. C. Weaver. 2,535,975, Dec. 26.

Bearing: *See*—
Air lubricated thrust bearing.

Bearing for sickles, Dustproof. C. E. Swenson. 2,535,878, Dec. 26.

Beta-(heterocyclic-thio) propionic acid and derivatives as plant stimulants. W. D. Stewart. 2,535,876, Dec. 26.

Beverage bottle case. A. J. Gerber. 2,535,493, Dec. 26.

Bicycle hub dynamo. A. Rabl. 2,535,453, Dec. 26.

Bicycle stabilizing attachment. M. M. Groom. 2,535,283, Dec. 26.

Billfold adapted to receive a removable pass case. D. J. Broughton. 2,535,387, Dec. 26.

Blank feeding mechanism for can making machines. L. Hermani. 2,535,853, Dec. 26.

Blanking pulse generating circuit. B. Chance. 2,535,266, Dec. 26.

Block mechanism for card operating machines, Selective naught. H. P. Mixer. 2,535,151, Dec. 26.

Board: *See*—
Adjustable ironing board.

Board bundle. W. R. Jones. 2,535,422, Dec. 26.

Boiler: *See*—
Round and sectional boiler.
Bolt pointer. W. Economous. 2,535,398, Dec. 26.
Bomb shackle release. D. E. Schwartz and R. E. Kemelhor. 2,535,095, Dec. 26.
Bore finishing tool. B. L. Johnson. 2,535,637, Dec. 26.
Boring machine, Multiple. J. J. Croft, Sr. 2,535,670, Dec. 26.
Bottle carrier. G. M. Acton. 2,535,113, Dec. 26.
Bottle carrier. S. Lighter. 2,535,741, Dec. 26.
Bottle contents quantity indicator. M. P. Villane, C. G. Dailey, and F. R. Wisentaner. 2,534,882, Dec. 26.
Bottom margin control device for typewriters. C. Y. Lee and Q. H. Hu. 2,535,539, Dec. 26.
Bowling alley, Miniature. J. A. Crowley. 2,535,724, Dec. 26.
Bowling pin having plastic-impregnated fabric coating. E. W. Bergere. 2,535,033, Dec. 26.
Box: *See*—
Bait box.
Box for photographic enlargers, Suction. L. E. Partridge. 2,535,952, Dec. 26.
Box forming machine. G. T. Hart and M. Seymour. 2,535,413, Dec. 26.
Bracket: *See*—
Swinging telephone bracket.
Bracket for signal lanterns. F. Sherman. 2,535,962, Dec. 26.
Brake: *See*—
Fluid pressure operated disk brake.
Brake control system for centrifugal machines or the like, Friction. J. Hertrich. 2,535,854, Dec. 26.
Brake hanger and making. R. B. Cottrell. 2,535,626, Dec. 26.
Brake mechanism. P. D. Seghers. 2,535,097, Dec. 26.
Brassière. G. W. Gluckin. 2,535,059, Dec. 26.
Brominating p-toluyl benzoic acid. I. Gubelmann. 2,534,131, Dec. 26.
Broom corn cutter. R. R. Woods. 2,535,884, Dec. 26.
Brush puller. W. Ernst and D. F. Boyd. 2,535,054, Dec. 26.
Brush puller. T. Slick. 2,535,099, Dec. 26.
Brush, Shaving. S. J. Bella. 2,535,716, Dec. 26.
Bucket, Cupola charging. A. G. Wallsworth and E. C. Nielson. 2,535,179, Dec. 26.
Building joint connector. T. A. Budne. 2,535,263, Dec. 26.
Building structure. G. W. Hult and H. Kingsmill. 2,535,494, Dec. 26.
Bullet lubricator. L. E. Wadman and F. J. Gomes. 2,535,616, Dec. 26.
Burner: *See*—
Vaporizing oil burner.
Burner and mixer, Oil. J. F. Meyer. 2,535,443, Dec. 26.
Burner with carbon removal means, Rotary vaporizing type. O. A. Ohlsson. 2,535,316, Dec. 26.
Burr removing apparatus, Inside. W. S. Schaefer and T. M. Bowes. 2,535,653, Dec. 26.
BX cable connector. R. Strom. 2,535,658, Dec. 26.
Cabinet: *See*—
Refrigerator cabinet.
Cabinet and extensible table, Combination. H. Medwin. 2,535,646, Dec. 26.
Cabinet and ventilating hood, Combined kitchen. E. E. Vezey, Jr. 2,535,707, Dec. 26.
Cable clamp. R. A. Preston. 2,535,599, Dec. 26.
Cable connection, Coaxial. H. P. Dupre. 2,536,003, Dec. 26.
Cable for welding equipment, Liquid cooled. N. E. Anderson and S. L. Sullivan. 2,535,187, Dec. 26.
Cakes, Making ornamental. C. V. Redinger. 2,535,319, Dec. 26.
Calculating device, Moment of inertia. R. L. Hoover. 2,535,208, Dec. 26.
Calculator. W. E. Bush. 2,535,119, Dec. 26.
Calculator. S. Skolnik. 2,535,374, Dec. 26.
Camera carrying case. E. H. Nelson. 2,535,152, Dec. 26.
Camera for multiple exposures. L. H. Larsson. 2,535,297, Dec. 26.
Can and holder therefor, Powder dispensing. A. F. Fukal. 2,535,847, Dec. 26.
Can arranging and bagging method and apparatus. W. M. Tomkins. 2,535,880, Dec. 26.
Can opener and pouring holder. D. L. Churchill and D. L. Scott. 2,535,783, Dec. 26.
Can puncturing device. C. Swyers. 2,535,333, Dec. 26.
Can vacuum closing machine, Square. M. M. Sedwick. 2,535,870, Dec. 26.
Cannon pinion indenting fixture. G. C. Childs, III. 2,535,483, Dec. 26.
Card, Perforated record. J. T. Ferry. 2,535,125, Dec. 26.
Carrier: *See*—
Baby carrier. Bottle carrier.
Carrier communication system. D. Mitchell. 2,535,446, Dec. 26.
Carrier wave communication system. W. C. Dillon and C. H. Kehm. 2,535,906, Dec. 26.
Carton. W. H. Frankenstein. 2,535,056, Dec. 26.
Cartridge unit, Explosive. L. B. Counterman. 2,535,196, Dec. 26.
Case: *See*—
Beverage bottle case. Cigarette case.
Camera carrying case. Shipping case.
Case for ammunition, Cartridge. C. D. Burney. 2,535,624, Dec. 26.
Casing cutting. A. N. Stanton. 2,535,964, Dec. 26.
Caster unit for furniture, Concealed. M. C. Simon. 2,535,654, Dec. 26.
Castor oil-organo silicon reaction products and the production thereof. F. J. Sowa. 2,535,239, Dec. 26.
Catalytic apparatus. E. V. Mathy. 2,535,944, Dec. 26.
Catalytic oxidation of mercaptans. D. C. Bond. 2,535,833, Dec. 26.
Catalytic process for preparing alcohols. W. F. Gresham. 2,535,060, Dec. 26.
Cellulose ether and making it, Stabilized thermoplastic. W. Koch and A. L. Rummelsburg. 2,535,359, Dec. 26.
Cellulose ether composition, Stabilized thermoplastic. W. E. Gloor and G. H. Pyle. 2,535,357, Dec. 26.
Cellulose ether composition, Stabilized thermoplastic. W. Koch. 2,535,363, Dec. 26.
Cellulose ether composition, Stabilized thermoplastic. W. Koch and G. H. Pyle. 2,535,360–2, Dec. 26.
Centrifugal separator. L. S. Kassel. 2,535,140, Dec. 26.
Chair: *See*—
Infant's chair. Resiliently supported reclining chair.
Infant's toilet training chair.
Chance device, Rotatable. A. R. Zerpa. 2,535,474, Dec. 26.
Change-speed mechanism. A. Andrews. 2,535,381, Dec. 26.
Check list, Mechanical. W. H. Grace. 2,535,408, Dec. 26.
Cheese press. P. Mueller. 2,535,592, Dec. 26.
Chuck assembly. L. W. Welch and A. F. Millington. 2,535,246, Dec. 26.
Chuck, Gear holding diaphragm. B. C. Day. 2,535,199, Dec. 26.
Chuck, Self-centering. C. H. Vidal. 2,535,106, Dec. 26.
Cigarette case. S. S. Szymanski. 2,535,761, Dec. 26.
Circuit: *See*—
Amplitude and frequency discriminatory gating circuit. Electrical circuit.
Blanking pulse generating circuit. Electron tube circuit.
Coincidence circuit. Multiple bridge circuit.
Electric valve excitation circuit. Pickup circuit.
Ringing control circuit.
Synchronizing circuit.
Video gating circuit.
Voltage divider circuit.
Circuit arrangement for a subscriber's set of a telegraph system. R. M. M. Oberman. 2,535,652, Dec. 26.
Circuit interrupter, Electric. W. F. Skeats and T. R. Coggeshall. 2,535,702, Dec. 26.
Circuits, Electronic control. D. L. Markusen. 2,535,147, Dec. 26.
Circuits, Radio amplifier. C. E. Koontz, Jr. 2,535,076, Dec. 26.
Clamp: *See*—
Cable clamp. Manhole lid clamp.
Jar clamp. Surgical clamp.
Clasp, Pin. L. L. Levy. 2,535,641, Dec. 26.
Cleaner: *See*—
Sink, lavatory, and commode cleaner. Vacuum cleaner.
Clip: *See*—
File or folder clip.
Clip for hearing aid cases. E. W. Born. 2,535,834, Dec. 26.
Clip with clasp means, Sheet metal spring. A. H. Tinnerman. 2,535,879, Dec. 26.
Closure for beehive smokers. R. H. Volgenau and J. M. Hooe. 2,535,177, Dec. 26.
Clothes hanger. T. H. Riddell. 2,535,603, Dec. 26.
Clothesline washer. J. J. Kubiak. 2,535,428, Dec. 26.
Clothespin and line, Safety. J. Levine. 2,535,640, Dec. 26.
Clothes washing machine. J. A. Castricone. 2,535,390, Dec. 26.
Clover seed cleaning mill. O. L. Harrison and J. Hart. 2,535,851, Dec. 26.
Clutch for tractor mounted hayrakes. J. B. Phillips. 2,535,812, Dec. 26.
Clutch mechanism for spring wound motors. M. Heller. 2,535,415, Dec. 26.
Coating compositions, Producing cathode. G. H. Bouchard. 2,535,999, Dec. 26.
Coffee maker. J. Vinton. 2,535,378, Dec. 26.
Coil arrangement, High-frequency. B. J. Lawrence. 2,535,686, Dec. 26.
Coincidence circuit. E. W. Titterton. 2,535,377, Dec. 26.
Collapsible hat holder. M. Jacobson. 2,535,136, Dec. 26.
Collapsible reel. J. M. Murray. 2,535,093, Dec. 26.
Collet and chuck jaws. C. H. Vidal. 2,535,105, Dec. 26.
Collet, Front loading. A. A. Parigian. 2,535,951, Dec. 26.
Column selecting means for card-sorting machines. K. J. Braun. 2,535,779, Dec. 26.
Comb. S. L. Treloar and J. G. Innes. 2,535,612, Dec. 26.
Comb, Hair. V. Isbell. 2,535,797, Dec. 26.
Comminuting machine, Crop. J. R. Day. 2,535,122, Dec. 26.
Communicating system. W. S. Halstead. 2,535,063, Dec. 26.
Communication and radio guidance system. E. M. Deloraine and P. R. Adams. 2,535,048, Dec. 26.

Commutator. E. C. Wahlberg. 2,535,824–5, Dec. 26.
Compact. A. F. Reilly. 2,535,455, Dec. 26.
Compass, Portable radio. M. D. Ercolino. 2,535,053, Dec. 26.
Composter, Activated. G. H. Earp-Thomas. 2,535,627, Dec. 26.
Compressor. S. A. J. Mansted. 2,535,308, Dec. 26.
Computing system. J. S. Allen. 2,535,250, Dec. 26.
Condenser: *See*—
Dry electrolytic condenser. Variable condenser.
Electrical condenser.
Conduit supporting frame. H. L. Kindorf. 2,535,427, Dec. 26.
Connector: *See*—
Building joint connector. BX cable connector.
Connector for chimneys and the like, Stovepipe. J. F. Anderson. 2,535,186, Dec. 26.
Connector head, Outlet. G. A. Mead. 2,535,150, Dec. 26.
Constant flow mixing valve. C. D. Branson. 2,535,893, Dec. 26.
Contact spring operation and drive in automatic switch. C. R. Woodland. 2,535,771, Dec. 26.
Container: *See*—
Portable carrying and sleeping container.
Container for powdered materials, Dispensing. J. W. Seigh. 2,535,871, Dec. 26.
Container top and closure therefor. J. Coyle and W. F. Punte. 2,535,840. Dec. 26.
Container with measuring trap, Powder dispensing. H. A. Fink. 2,535,845, Dec. 26.
Control circuits. A. O. Adam, Jr., and R. C. Avery. 2,535,661, Dec. 26.
Control for systems using either heating or cooling medium. C. D. Branson. 2,535,892, Dec. 26.
Control for water softening apparatus. L. G. Lindsay. 2,535,432, Dec. 26.
Control instrument. G. W. Kuntny. 2,535,430, Dec. 26.
Control means for electric steam generators. K. Toensfeldt. 2,535,569, Dec. 26.
Control mechanism for Diesel engines. E. Grieshaber and K. Froehlich. 2,535,571, Dec. 26.
Control mechanism for helicopters. C. M. Seibel. 2,535,164, Dec. 26.
Control mechanism for pumps. W. C. Westbrook. 2,535,617, Dec. 26.
Control system for ignitron tubes. G. J. Lexa. 2,535,499, Dec. 26.
Controller for magnetic induction accelerators. W. F. Westendorp. 2,535,710, Dec. 26.
Conveyer for packing, Vibratory. J. Frei, Jr. 2,535,127, Dec. 26.
Conveyer, Vibratory. L. Devol. 2,535,050, Dec. 26.
Cooking unit, Electric. R. F. White. 2,535,379, Dec. 26.
Cooler: *See*—
Evaporative cooler.
Coupling: *See*—
Automatic safety air valve coupling. Hose coupling.
Flexible coupling. Self-sealing coupling.
Coupling. D. L. Massey. 2,535,435, Dec. 26.
Coupling for pipes and other tubular elements. M. Sigmund. 2,535,816. Dec. 26.
Coupling pin and lifting hook, Combination. A. J. Von Bank. 2,535,468, Dec. 26.
Cover: *See*—
Tire traction cover. Wheel cover.
Cross-feed mechanism for grinding machines. H. Arter and W. F. Fraser. 2,535,997, Dec. 26.
Cure tester for plastics. R. D. Beck. 2,535,830, Dec. 26.
Curtain construction. H. Sheinman. 2,535,238, Dec. 26.
Curve-cutting band-saw attachment. C. O. Forbes. 2,535,673, Dec. 26.
Cutoff valve. G. V. Powers. 2,535,953, Dec. 26.
Cutter: *See*—
Broom corn cutter. Wing cutter.
Thread cutter.
Cutting fusible fabrics, Method and apparatus for. J. V. Atanasoff and L. H. Kaltenberger. 2,535,029, Dec. 26.
Cutting machine, Automatic profile. J. Q. Buckles, G. A. Lensky, and W. Trible. 2,535,895, Dec. 26.
Cutting machine, Potato seed. K. G. Brown. 2,535,261, Dec. 26.
Cutting machine, Rotary tobacco. G. Dearsley. 2,535,672, Dec. 26.
Cyclopentyl-isobutyl-acetic acid. R. B. Moffett and C. A. Hart. 2,535,085, Dec. 26.
Cyclopentyl-(2-methylallyl)-acetic acid. R. B. Moffett and C. A. Hart. 2,535,086, Dec. 26.
Damper, Centrifugal pendulum vibration. G. F. Sarazin. 2,535,958, Dec. 26.
Damper latch. G. E. Lauer. 2,535,639, Dec. 26.
Decoy, Goose. W. Miller and E. W. Biermann. 2,535,445, Dec. 26.
Demagnetizing apparatus for magnetic recorders. S. J. Begun. 2,535,481, Dec. 26.
Dental articulator. B. Lyons. 2,535,146, Dec. 26.
Depolymerizing polymers of 1,1-dicyano ethylene. A. E. Ardis and H. Gilbert. 2,535,827, Dec. 26.
Device comprising a gas turbine. A. A. Dros. 2,535,488, Dec. 26.
Device for aid in drilling ophthalmic lenses. C. L. Hobbs. 2,535,633, Dec. 26.
Device for holding photographic prints while developing or fixing. B. D. Eisner. 2,535,728, Dec. 26.
Device for maintaining a section of a band in lateral position whilst being subjected to a forward movement. J. Thévenaz. 2,535,834, Dec. 26.
Device for sizing the ends of tubing. E. O. Woeller. 2,535,339, Dec. 26.
Device for washing vegetables and the like. E. Thiermann. 2,535,967, Dec. 26.
Device responsive to the unwinding of a weft thread. H. Peicé. 2,535,369, Dec. 26.
Device to prevent breakage of poles and wires. V. C. Davis. 2,535,270, Dec. 26.
Diagnostic lamp. A. A. Gradisar. 2,535,916, Dec. 26.
Dial testing by means of an oscilloscope pattern, Telephone. W. H. Blashfield. 2,535,118, Dec. 26.
Dialkyl 2-alkoxy-ethanephosphonates and preparing. P. O. Tawney. 2,535,172, Dec. 26.
Die-cast slider pull with formed pivot bearings. L. H. Morin. 2,535,505, Dec. 26.
Die for cutting electrical units. A. W. Franklin. 2,535,674. Dec. 26.
Diriboflavin ester of pyrophosphoric acid and its preparation. P. J. Breivogel. 2,535,385, Dec. 26.
Disintegrator of laboratory test size for wet disintegration of cellulosic pulp samples. R. M. Levy and W. D. Harrison. 2,535,302, Dec. 26.
Dispenser for tape. M. B. Andrews. 2,535,621, Dec. 26.
Dispensing system, Article. T. S. Skillman. 2,535,461, Dec. 26.
Display and advertising apparatus. H. V. Conroy. 2,535,484, Dec. 26.
Dog for sawmill carriages, Power-operated. D. R. McFerson. 2,535,440, Dec. 26.
Doll and making same. M. L. Smalley. 2,535,818, Dec. 26.
Doll joint. H. R. Beebe. 2,535,116, Dec. 26.
Door holder. B. S. Bernhard. 2,535,981, Dec. 26.
Dovetail tool. W. A. Barnes. 2,535,383, Dec. 26.
Draft trap. S. E. Norcross. 2,535,368, Dec. 26.
Drain, Collapsible. C. F. Raisch. 2,535,955, Dec. 26.
Drapery and curtain hanger. S. Sklar. 2,535,655, Dec. 26.
Drier: *See*—
Gas drier. Sand drier.
Drier. C. C. Smith. 2,535,327, Dec. 26.
Drier having coordinated feed and recycling means, Continuous batch flash. C. W. Gordon. 2,535,570, Dec. 26.
Drilling jig, Adjustable. D. Klingman. 2,535,581, Dec. 26.
Drive, Loop controlled variable-speed. D. A. Cumfer. 2,535,352, Dec. 16.
Dry electrolytic condenser. I. J. Menschik and H. C. Kreinick. 2,535,945, Dec. 26.
Drying apparatus. P. L. Wigton. 2,535,109, Dec. 26.
Drying wood. M. S. Hudson. 2,535,925, Dec. 26.
Dual rate and/or reversed charging in automatic telephony. J. E. Ostline. 2,535,510, Dec. 26.
Dump truck chute support. A. L. Cresci. 2,535,841, Dec. 26.
Dumping mechanism for mold conveyers. R. J. Anderson. 2,535,715, Dec. 26.
Dust collector. E. A. Glynn. 2,535,281, Dec. 26.
Earpiece with inflatable sealing means. R. B. Bland. 2,535,258, Dec. 26.
Educational device. M. C. Grace. 2,535,849, Dec. 26.
Eggshell remover, Hard-boiled. C. K. Yeamans. 2,535,980, Dec. 26.
Electric discharge tube and cooling the anode thereof. P. H. Clay. 2,535,669, Dec. 26.
Electric safety lamp. W. Y. Stamper. 2,535,819, Dec. 26.
Electric switch. C. F. Robbins. 2,535,161, Dec. 26.
Electric switch. J. M. Tyrner. 2,535,556, Dec. 26.
Electric valve excitation circuit. A. Schmidt, Jr. 2,535,698, Dec. 26.
Electrical apparatus. J. Rasek. 2,535,232, Dec. 26.
Electrical apparatus for servicing automobiles. I. W. Polk. 2,535,279, Dec. 26.
Electrical circuit. F. B. Berger. 2,535,257, Dec. 26.
Electrical condenser. J. C. Balsbaugh. 2,535,030, Dec. 26.
Electrical logging system. R. A. Broding. 2,535,666, Dec. 26.
Electrical pulse width shaper and selector. D. D. Grieg. 2,535,061, Dec. 26.
Electrical system for locating a sound source. T. G. Barnes and M. J. Burger. 2,535,255, Dec. 26.
Electrically interconnecting wires, cables, tubes, plates, and other metallic elements. G. V. A. and M. A. Duch. 2,535,397, Dec. 26.
Electrically operated saw gauge. H. C. Carman. 2,535,900, Dec. 26.
Electrician's solder dipper heater. L. L. Goodenrath. 2,535,731. Dec. 26.
Electroacoustic system and means. K. S. Johnson. 2,535,681, Dec. 26.
Electrolytic apparatus for cleaning strip. A. Teplitz. 2,535,966, Dec. 26.
Electrolytic water softening and pH adjustment. R. E. Briggs. 2,535,035, Dec. 26.
Electromagnetic machine. D. M. Davidoff. 2,535,788, Dec. 26.
Electron discharge device, High-frequency. B. M. Charchian. 2,535,039, Dec. 26.
Electron tube circuit. R. G. Heaton. 2,535,285, Dec. 26.
Electronic device for periodic timing. O. O. Lindborg. 2,535,304, Dec. 26.

Electronic impedance meter. R. E. Smith. 2,535,608, Dec. 26.
Electronic switch. W. R. Baker and Q. A. Kerns. 2,535,886, Dec. 26.
Electronic switch. W. D. Lewis. 2,535,303, Dec. 26.
Electrooptical dark trace storage tube. A. M. Skellett. 2,535,817, Dec. 26.
Electrophoretic apparatus for research. A. Dinsley. 2,535,395, Dec. 26.
Electrostatic precipitator. E. L. Richardson. 2,535,696, Dec. 26.
Electrostatic precipitator. W. J. Roos. 2,535,697, Dec. 26.
Embroidering machine. P. V. Rius. 2,535,456, Dec. 26.
Emulsion polymerization of unsaturated organic compounds. W. L. Walton. 2,535,557, Dec. 26.
End stop for slide fasteners. F. W. Clarke. 2,535,391, Dec. 26.
Engine: *See*—
Two-cycle low-boiling fuel injection engine.
Engine, compressor, and control therefor. Combined steam. H. G. Mueller. 2,535,749, Dec. 26.
Envelope. V. E. Heywood. 2,535,537, Dec. 26.
Erasing head and apparatus for magnetic recorders. O. Kornei. 2,535,498, Dec. 26.
Esters of beta-hydroxy carboxylic acids by the reaction of beta-lactones with chlorophenols, Preparation of novel. W. L. Beears. 2,535,832, Dec. 26.
Ether sulfonates, Preparation of. C. S. Hollander and L. H. Bock. 2,535,677, Dec. 26.
Ethers of hydroxyethane sulfonates and ether alcohols, Preparation of. C. S. Hollander and L. H. Bock. 2,535,678, Dec. 26.
Evaluator, Electric direction finding. J. H. Lewis and J. L. Allison. 2,535,942, Dec. 26.
Evaporative cooler. R. N. Brookins. 2,535,386, Dec. 26.
Evaporator. G. A. Worn and W. E. Brockel. 2,535,996, Dec. 26.
Excavator. T. C. and W. E. Mullins, Jr. 2,535,750, Dec. 26.
Expander for piston rings. H. P. Phillips. 2,535,597, Dec. 26.
Expansion and contraction tool. H. D. La Mont. 2,535,078, Dec. 26.
Extractor with a pivotally mounted rotatable reamer, Fruit juice. A. M. Stoner. 2,535,553, Dec. 26.
Extrusion press. G. A. Pongelet. 2,535,865, Dec. 26.
Eyeglasses, Adjustable. J. L. Rooney. 2,535,321, Dec. 26.
Fabricating thermometers. E. N. Andrae. 2,535,477, Dec. 26.
Fastener: *See*—
Pull apart separable fastener.
Fastening device, Rail. F. G. Wertz. 2,535,337, Dec. 26.
Fastening device, Shirt cuff. J. S. Kanarek. 2,535,139, Dec. 26.
Feed adjustment device. R. C. Palmer. 2,535,228, Dec. 26.
Feed mechanism. R. E. Price. 2,535,550, Dec. 26.
Feed mechanism, Automatic. J. P. Mills. 2,535,648, Dec. 26.
Feeder for collapsed can bodies. W. Furminger. 2,535,848, Dec. 26.
Feeder for molten thermoplastic materials. C. H. Billman. 2,535,888, Dec. 26.
Feeder means for conveyers. S. Marvin and W. H. Orth. 2,535,804, Dec. 26.
Feeding mechanism. W. R. Spiller and E. W. Bradmiller. 2,535,240, Dec. 26.
Fibrous dielectric compositions. H. F. Miller and R. G. Flowers. 2,535,690, Dec. 26.
File or folder clip. L. G. Mayer and F. J. Neel. 2,535,502, Dec. 26.
Filing and indexing system for phonograph records. A. C. Lowther. 2,535,688, Dec. 26.
Filter: *See*—
Nasal filter. Synchronous filter.
Filter with explosion-proof illuminating device. J. W. Keiley and H. R. Davis. 2,535,799, Dec. 26.
Filtering device, Smoke. J. Goch. 2,535,282, Dec. 26.
Firearm with trigger operated cocking mechanism, Semi-automatic. M. W. Pastore and J. C. Rothwell. 2,535,156, Dec. 26.
Fire extinguishing device. J. H. McGann, Jr. 2,535,311, Dec. 26.
Fish bait, Minnow. C. F. Dale. 2,535,392, Dec. 26.
Fish lure. J. F. Jelinek. 2,535,211, Dec. 26.
Fish machine, Bulk feed. A. L. Christiansen. 2,535,349, Dec. 26.
Fishing bobber. J. Dolejs. 2,535,907, Dec. 26.
Fishing reel. C. R. Lorenz. 2,535,584, Dec. 26.
Fishing rod handle. H. J. Fry. 2,535,404, Dec. 26.
Fixture having two pairs of jaws, Vise type. C. E. O'Malley. 2,535,450, Dec. 26.
Flag package, Presentation. E. T. McBride. 2,535,149, Dec. 26.
Flaring tubing. J. R. Welshman. 2,535,470, Dec. 26.
Flashlight, Batteryless. J. C. Clark. 2,535,041, Dec. 26.
Flexible coupling. J. C. Wilcox. 2,535,338, Dec. 26.
Fiber for spinning and like machines. C. H. Hattersley. 2,535,736, Dec. 26.
Floodlight mounting for cameras, Multiple bulb. G. and S. Schaeffer. 2,535,372, Dec. 26.
Flotation of minerals with hydroperoxide frothers. W. T. Bishop, E. J. Lorand, and J. E. Reese. 2,535,344–5, Dec. 26.
Flour bleaching compositions, Preparation of. W. A. Mitchell. 2,535,313, Dec. 26.
Fluid-driven impact mechanism. T. E. Mead. 2,535,588, Dec. 26.
Fluid operated press. G. Courl. 2,535,786, Dec. 26.
Fluid pressure control system for vehicles. R. G. Le Tourneau. 2,535,300, Dec. 26.
Fluid pressure operated disk brake. P. T. Tucker. 2,535,763, Dec. 26.
Flux for purifying metals. E. W. Hagmaier. 2,535,536, Dec. 26.
Folding table. J. F. Hart. 2,535,920, Dec. 26.
Forging apparatus. J. Lafont. 2,535,295, Dec. 26.
Formaldehyde resin modified with a polyethylene glycol bis-(aminophenyl) ether, Thermosetting. K. H. Adams and G. L. Doelling. 2,535,380, Dec. 26.
Formals, Production of. M. O. Robeson. 2,535,458, Dec. 26.
Formation tester. E. L. Ahlgren. 2,535,342, Dec. 26.
Forming screw jacks with concrete bases. L. A. Roggensack. 2,535,956, Dec. 26.
4-aminobenzene-sulfonamides N′ acylated with substituted cinnamic acids. H. Martin, H. Gysin, O. Neracher, and R. Hirt. 2,535,943, Dec. 26.
4-methyl-1,2-dithia-4-cyclopentene-3-thione. D. R. Stevens and A. C. Whitaker. 2,535,706, Dec. 26.
4-neopentyl-1,2-dithia-4-cyclopentene-3-thione and 4-methyl - 5 - tertiary - butyl - 1,2 dithia - 4 - cyclo - pentene-3-thione. D. R. Stevens and W. C. Starnes. 2,535,705, Dec. 26.
Frame: *See*—
Conduit supporting frame. Motor cycle frame.
Frame for garment bags, Foldable support. B. Corwin. 2,535,625, Dec. 26.
Freezing machine, Continuous. C. R. Stoelting, O. E. Stamberg, and E. F. Vilter. 2,535,462, Dec. 26.
Frozen confections, Method and apparatus for making. M. B. Rasmusson. 2,535,231, Dec. 26.
Fruit picking device, Portable. J. C. and M. E. Lehman. 2,535,542, Dec. 26.
Fryer, Deep fat. J. F. Dawson. 2,535,905, Dec. 26.
Fuel injecting means for motors. L. Le Bozec and G. Gautier. 2,535,937, Dec. 26.
Furnace for tobacco barns, Refractory. R. B. Williamson. 2,535,883, Dec. 26.
Fuse igniting and connecting means. J. D. Rich. 2,535,518, Dec. 26.
Fuse switch. J. L. Turner. 2,535,822, Dec. 26.
Galvanometer. C. A. Helland. 2,535,065, Dec. 26.
Gamma-valerolactone and gamma-butyrolactone as dyeing assistants for cellulos ester and ether yarns and fabrics. S. U. Shorey and G. W. Wright. 2,535,098, Dec. 26.
Garment. H. M Plehn. 2,535,864, Dec. 26.
Garment hanger. A. F. Schoepfer. 2,535,521, Dec. 26.
Gas detector, Flammable. C. M. Page. 2,535,950, Dec. 26.
Gas drier. W. H. Dailey, Jr. 2,535,902, Dec. 26.
Gas purifying apparatus. D. B. Crawford. 2,535,351, Dec. 26.
Gas saving device. A. C. Olan. 2,535,449, Dec. 26.
Gas storage system, Liquefied. M. W. Lee. 2,535,364, Dec. 26.
Gate valve. F. E. Wolfe. 2,535,525, Dec. 26.
Gauge: *See*—
Adjustable centering gauge. Micrometer height gauge.
Electrically operated saw gauge. Roof pitch sight gauge.
Vacuum gauge.
Gauge for saw tables, Trim and miter. W. R. Curtis. 2,535,843, Dec. 26.
Gauge guiding means. P. Buisson. 2,535,897, Dec. 26.
Gear for ship propulsion, Reversible speed-reduction. A. W. Davis. 2,535,904, Dec. 26.
Gearing for internal-combustion engines, Starter. R. F. Dunbar. 2,536,002, Dec. 26
Gearing, Forward and reverse transmission. J. H. Carpenter. 2,535,194, Dec. 26.
Gelatinous composition of matter and preparing same. L. Koch. 2,535,538, Dec. 26.
Gem, Simulated. L. Moyd. 2,535,807, Dec. 26.
Generating sound, Method and apparatus for. C. B. Horsley and R. E. Young. 2,535,680, Dec. 26.
Generating system and network therefor, Impulse. P. Robinson, W. M. Allison, and N. E. Beverly. 2,535,093, Dec. 26.
Generator: *See*—
Infrared generator. X-ray generator.
Ultra high frequency signal generator.
Generator operated at constant compressor clearance volume, Free piston internal-combustion gas. R. J. Welsh. 2,535,558, Dec. 26.
Grid-controlled electron tube. A. H. Mankin and D. E. Sunstein. 2,535,307, Dec. 26.
Grinder, Valve seat. J. S. Klein, Jr. 2,535,292, Dec. 26.
Grinding machine, Cam. R. E. Price. 2,535,549, Dec. 26.
Grinding machine, Camshaft. C. J. Green and O. E. Hill. 2,535,130, Dec. 26.
Grinding wheel dressing apparatus. J. C. Wilson. 2,535,183, Dec. 26.
Grip positioning apparatus for control cams, Intermittent. F. H. Owens. 2,535,514, Dec. 26.

Grip, Rotary crank-driven intermittent. F. A. Gruetjen. 2,535,918, Dec. 26.
Gripper for printing presses. C. L. Lance. 2,535,935, Dec. 26.
Gripping or cutting hand tool. K. J. Klenk. 2,535,215, Dec. 26.
Grounding device for alternating-current circuits, Resonant. L. H. Harrison. 2,535,064, Dec. 26.
Guard, Cattle. L. A. Henningsen. 2,535,795, Dec. 26.
Guard for nozzle spray deflectors. F. W. Wahlin. 2,535,766, Dec. 26.
Guard, Lip. E. J. Meunier. 2,535,084, Dec. 26.
Guide for disk type magnetic recorder-reproducers. J. H. James. 2,535,495, Dec. 26.
Guide for sewing machines, Fabric. L. Schwartz. 2,535,234, Dec. 26.
Hair curling unit. M. O. Montgomery. 2,535,223, Dec. 26.
Hair-waving device. R. A. Satrian. 2,535,959, Dec. 26.
Handle: *See*—
Fishing rod handle.
Manually propelled implement handle.
Handle. H. Bachli and H. S. Shapiro. 2,535,382, Dec. 26.
Handle for power mowers, Shock absorbing. C. N. Turner. 2,535,466, Dec. 26.
Handle interlock and impulse transmission switch assembly for race totalizators, Operating. A. F. and G. A. Julius. 2,535,425, Dec. 26.
Hanger: *See*—
Clothes hanger. Garment hanger.
Drapery and curtain hanger.
Hanger. R. C. Kember. 2,536,004, Dec. 26.
Harvester, Tractor-mounted beet. L. W. Schmidt. 2,535,960, Dec. 26.
Heat exchanger, Cylindrical. G. Chausson. 2,535,721, Dec. 26.
Heat sealing device. H. C. Sundstrom. 2,535,171, Dec. 26.
Heat-treating wheels. H. B. Wishart. 2,535,110, Dec. 26.
Heater: *See*—
Electrician's solder dipper Steam heater.
heater.
Heater control system with time-delay switch. V. N. Tramontini. 2,535,969, Dec. 26.
Heater for stock tanks, Submergible. D. Moss. 2,535,545, Dec. 26.
Heater with regenerator for hot-gas engines, Shell-shaped. W. H. Stigter. 2,535,522, Dec. 26.
Heating attachment, Car. A. Josephson. 2,535,424, Dec. 26.
Heel size selector. C. W. Laing. 2,535,296, Dec. 26.
Hem construction. S. Nachem. 2,535,224, Dec. 26.
Heterocyclic guanamines. J. T. Thurston and D. W. Kaiser. 2,535,968, Dec. 26.
Heterodyne eliminator communication system. J. L. A. McLaughlin. 2,535,442, Dec. 26.
Hexahydropyrimidines and producing them, Substituted. G. H. Morey. 2,535,747, Dec. 26.
High-voltage method and system. M. Newman. 2,535,651, Dec. 26.
High-voltage supply for cathode-ray tubes. E. L. Clark and A. Wright. 2,535,530, Dec. 26.
Hinge and stop, Toilet seat. G. W. De Bell. 2,535,789, Dec. 26.
Hinge, Compensating. G. W. Slopa. 2,535,324, Dec. 26.
Hinge structure, Counterbalanced. R. A. Nowell. 2,535,448, Dec. 26.
Hitch construction. L. L. Hyler. 2,535,927, Dec. 26.
Hoist. C. J. Manney. 2,535,985, Dec. 26.
Hoist or off-bearer. W. G. Schutt. 2,535,961, Dec. 26.
Holder: *See*—
Automatic rotary drill pipe holder. Door holder.
Collapsible hat holder. Lamp flare holder.
Paintbrush holder.
Holder and carrier, Bottle. G. M. Acton. 2,535,114, Dec. 26.
Holder for bulbs. S. M. McElroy. 2,535,586, Dec. 26.
Holder for toothpaste or the like. B. Cutler. 2,535,671, Dec. 26.
Hook forming apparatus for rods and wire. T. S. Somerville. 2,535,328, Dec. 26.
Hose coupling. L. C. Rotter and A. T. Laspe. 2,535,460, Dec. 26.
Humidifier. W. J. Woolley. 2,535,772, Dec. 26.
Husking machine, Corn. R. Cover. 2,535,485, Dec. 26.
Hydraulic bumper jack. J. C. Schwantner. 2,535,759, Dec. 26.
Hydraulic control for mechanisms. W. T. Blake. 2,535,778, Dec. 26.
Hydraulically-actuated apparatus for expressing liquids from floor mops. W. G. Van Voorhis and A. J. Heider. 2,535,244, Dec. 26.
Hydrocarbon-lead compounds, Making. G. Calingaert and H. Shapiro. 2,535,193, Dec. 26.
Hydrocarbon products and making same, Unsaturated. F. J. Smith. 2,535,606, Dec. 26.
Hydroxybenzenesulfonamidotriazines and preparation of same. M. E. Hultquist and Y. Subbarow. 2,535,636, Dec. 26.
Icer, Portable. C. Michaelis and K. Preuss. 2,535,860, Dec. 26.
Image and color display device, Changeable. F. Burchell. 2,535,781, Dec. 26.
Improving the strength of artificial insolubilized protein filaments. D. Traill and G. K. Simpson. 2,535,103, Dec. 26.
Incinerator. H. H. Hathaway. 2,535,206, Dec. 26.
Incorporation of fines in a silica-alumina catalyst. F. C. Nicholson and C. P. Wilson. 2,535,948, Dec. 26.
Index fixture, Automatic electric. M. H. Emrick. 2,535,490, Dec. 26.
Indicating apparatus for determining correction of postural foot alignment, Visual. R. U. Darby. 2,535,787, Dec. 26.
Indicating device. G. G. Allenbaugh. 2,535,826, Dec. 26.
Indicating device, Menstrual cycle. J. B. Lancaster. 2,535,431, Dec. 26.
Indicating, recording, and controlling apparatus. C. H. Gregory and J. Hall. 2,535,202, Dec. 26.
Indicator: *See*—
Bottle contents quantity indicator. Moving target indicator.
Magnetically actuated direction indicator. Projection vibration indicator.
Induction device having a substantially pure sine relation between the coupling and the relative displacement of its elements. J. P. Glass, Jr. 2,535,914, Dec. 26.
Infant's chair. E. L. Johnson. 2,535,212, Dec. 26.
Infant's toilet training chair. W. R. Snyder and M. F. Eaton. 2,535,704, Dec. 26.
Infrared generator. J. M. Coats. 2,535,268, Dec. 26.
Inhaler apparatus. C. E. Lombard. 2,535,938, Dec. 26.
Injection mold. O. E. Hermanns. 2,535,132, Dec. 26.
Injection system and apparatus therefor. D. J. O'Connell. 2,535,752, Dec. 26.
Inner tube. J. E. Cady and F. A. Mulbarger. 2,535,120, Dec. 26.
Insect repellents. N. L. Drake and C. M. Baker. 2,535,052, Dec. 26.
Insect repellents. M. S. Newman and B. J. Magerlein. 2,535,089, Dec. 26.
Instrument, Control. G. W. Kuntny. 2,535,429–30, Dec. 26.
Instrument, Cooling. W. Chase. 2,536,001, Dec. 26.
Instrument for determining size and location of anterior teeth. J. E. Scott. 2,535,163, Dec. 26.
Instrument mounting. C. A. Boehm. 2,535,889, Dec. 26.
Instrument, Musical. E. H. Alkire. 2,535,252, Dec. 26.
Interlocked control for the clamps and spindle of a radial drill or the like. C. E. Linden and F. O. Wetzel. 2,536,006, Dec. 26.
Iron carbides, Preparation of. E. M. Cohn and L. J. E. Hofer. 2,535,042, Dec. 26.
Isophorone imines. V. E. Haury and S. A. Ballard. 2,535,922, Dec. 26.
Jack: *See*—
Hydraulic bumper jack. Lift jack.
Ladder jack. Stationary safety jack.
Jacket, Convertible. T. C. Harry. 2,535,205, Dec. 26.
Jacket, Life. R. E. Starn. 2,535,874, Dec. 26.
Jar clamp. F. R. Jackson. 2,535,210, Dec. 26.
Joint: *See*—
Doll joint. Tool joint.
Rotatable wave guide joint.
Kelly handling device. W. A. Pitts. 2,535,546, Dec. 26.
Keyboard, Auxiliary. W. E. Walker. 2,535,178, Dec. 26.
Knife tobacco cutting machine, Rotary. D. W. Molins, F. F. Ruau, and G. Dearsley. 2,535,692, Dec. 26.
Knitting machine, Circular, independent needle. B. Stevens, Jr. 2,535,991, Dec. 26.
Lace loom. R. A. and C. A. Kennedy. 2,535,579, Dec. 26.
Ladder jack. Z. J. Jagiel. 2,535,291, Dec. 26.
Ladder, Safety. W. D. McKinley. 2,535,544, Dec. 26.
Lamp: *See*—
Diagnostic lamp. Electric safety lamp.
Lamp and baker, Therapeutic. P. C. Daugert. 2,535,393, Dec. 26.
Lamp flare holder. S. J. Gartner and E. W. Barrett. 2,535,630, Dec. 26.
Lamp stems, Manufacture of. W. J. Knochel and C. Wiener. 2,535,582, Dec. 26.
Lamp with switch operated by lamp movement, Electrical wall. H. M. Jensen and W. B. Young. 2,535,421, Dec. 26.
Last block centering apparatus. H. F. Loewer and O. S. Porter. 2,535,433, Dec. 26.
Latch: *See*—
Damper latch.
Latch and lock. A. Newell. 2,535,947, Dec. 26.
Latching device, Self-aligning. R. K. Nottingham. 2,535,153, Dec. 26.
Lavatory leg assembly. W. F. Vanderbeek. 2,535,613, Dec. 26.
Lawn mower reel. E. Adamczyk. 2,535,185, Dec. 26.
Lens for motion-picture cameras. F. G. Back and H. Lowen. 2,535,115, Dec. 26.
Lens synchronizer for cameras, Polarizing. C. E. Mosman. 2,535,591, Dec. 26.
Level with magnetic securing means. R. R. Fluke. 2,535,791, Dec. 26.
Lever, Flywheel turning. I. W. Nelson. 2,535,447, Dec. 26.

License holder for motor vehicles. R. T. Hodges, Sr. 2,535,576, Dec. 26.
License holder for rearview automobile mirrors. R. T. Hodges, Sr. 2,535,575, Dec. 26.
License plate with renewable tab, Vehicle. H. E. Caffrey. 2,535,265, Dec. 26.
Lifr. O. Merkel. 2,535,221, Dec. 26.
Lift jack. T. M. Parker. 2,535,753, Dec. 26.
Lighter, Battery operated cigarette. I. Boyarsky and I. E. Melnick. 2,535,665, Dec. 26.
Lighter, Pyrophoric. R. E. Chérouvrier. 2,535,529, Dec. 26.
Lighter using gaseous fuel. M. Quercia and G. Ferdinand. 2,535,452, Dec. 26.
Lightning arrester. M. A. Gill. 2,535,129, Dec. 26.
Limit control apparatus. R. G. Hoch. 2,535,133, Dec. 26.
Limit control for magnetic recorders. C. B. Jones. 2,535,497, Dec. 26.
Liquid feed, Measured. E. E. Hageline. 2,535,204, Dec. 26.
Liquid level contactor. S. Kongelbeck. 2,535,142, Dec. 26.
Liquors derived from cellulose manufacture, Treatment of waste. R. H. Gadret. 2,535,730, Dec. 26.
Loader, Shovel. E. A. Dingley. 2,535,727, Dec. 26.
Lock: *See*—
Vacuum operated door lock.
Lock slider, Automatic. L. H. Morin. 2,535,506, Dec. 26.
Lock slider, Automatic. P. Natzler. 2,535,508, Dec. 26.
Locking device, Hub cap. L. W. Flowers and H. J. Green. 2,535,126, Dec. 26.
Loom: *See*—
Lace loom.
Lubricating arrangement for high-speed shafts. K. D. McMahan. 2,535,689, Dec. 26.
Lubricating compositions. C. E. Funk, Jr. 2,535,024, Dec. 26.
Lubricating grease, Sulfonate base. L. W. Sproule and W. C. Pattenden. 2,535,101, Dec. 26.
Lubricating system for gear units. N. A. Smith & J F. O. Fridell. 2,535,703, Dec. 26.
Lubricating system for sheave blocks. F. Gorrell. 2,535,915, Dec. 26.
Lubricator: *See*—
Air-line lubricator. Bullet lubricator.
Luggage compartment closure operating mechanism, Motor vehicle. A. Rappl. 2,535,600, Dec. 26.
Machine for loading cans in trays in staggered relation with double row can feed means. G. L. Ardron. 2,535,828, Dec. 26.
Machine for molding concrete block, brick, or tile. A. R. Canfield. 2,535,389, Dec. 26.
Machine for strip-icing confections. C. Hettinger. 2,535,573, Dec. 26.
Machine vibrator. E. F. Peterson. 2,535,596, Dec. 26.
Magnetic stick relay. J. E. Willing, G. E. Duffy, Sr., and C. E. Stevenson. 2,535,977, Dec. 26.
Magnetically actuated direction indicator. C. A. Gossett. 2,535,201, Dec. 26.
Magnetron. C. W. Hansell. 2,535,793, Dec. 26.
Mahogany acids and mahogany soaps, Producing. C. A. Cohen. 2,535,784, Dec. 26.
Mailbox switch. N. R. Smith. 2,535,607, Dec. 26.
Making a tablet box. J. Coyle. 2,535,838, Dec. 26.
Mandrel positioning device for tube mills and the like. J. W. Offutt. 2,535,949, Dec. 26.
Manhole lid clamp. F. T. Dixon. 2,535,275, Dec. 26.
Manifold form. C. L. Johnston. 2,535,798, Dec. 26.
Manometer, Hypodermic pressure. H. R. Bierman. 2,535,998, Dec. 26.
Manually propelled implement handle. R. E. Huston. 2,535,419, Dec. 26.
Manufacture of alkyllead compounds. G. Calingaert and H. Shapiro. 2,535,191, Dec. 26.
Marker, Skirt. A. R. Koch. 2,535,074, Dec. 26.
Mask, Plastic football player's. M. T. Marietta. 2,535,434, Dec. 26.
Material handling apparatus. C. H. Anderson. 2,535,476, Dec. 26.
Material spreader. L. Heidger. 2,535,414, Dec. 26.
Matrix guide. M. D. Almquist. 2,535,663, Dec. 26.
Measuring and control method and apparatus. T. R. Harrison and L. B. Cherry. 2,535,412, Dec. 26.
Measuring and controlling apparatus, Frequency responsive. R. F. Wild. 2,535,248, Dec. 26.
Mechanism for adjusting the spacing of traction drive means for variable track vehicles. E. T. J. Tapp and J. Davey. 2,535,762, Dec. 26.
Mechanism for converting a uniform motion into a variable motion. M. F. Armelin. 2,535,774, Dec. 26.
Mechanism for ejecting articles from elevators. F. J. Witte. 2,535,979, Dec. 26.
Mechanism for winding and paying out cables and the like. J. T. Ratcliffe. 2,535,318, Dec. 26.
Mercaptoethanephosphonates. P. O. Tawney. 2,535,174, Dec. 26.
Metal container for food products. J. Coyle and W. F. Punte. 2,535,839, Dec. 26.
Metal from its ore, Production of. G. J. A. Bassereau. 2,535,622, Dec. 26.
Metal objects for the application of synthetic resins, Preparing ferrous. C. H. Hempel. 2,535,794, Dec. 26.
Meter: *See*—
Electronic impedance meter.
Metering and line adapter, Two-party. J. H. Voss. 2,535,765, Dec. 26.
Metler. A. W. Keight. 2,535,426, Dec. 26.
Micrometer height gauge. W. Vangor. 2,535,881, Dec. 26.
Mill: *See*—
Clover seed cleaning mill.
Mill roll stand. E. B. Seeger. 2,535,815, Dec. 26.
Milling machine, Pattern controlled. J. Q. Buckles, G. A. Lensky, and W. Trible. 2,535,896, Dec. 26.
Minimizing electron optical distortions in electron camera tubes. B. M. Oliver. 2,535,810, Dec. 26.
Modulator, Single side band. R. R. Yost, Jr. 2,535,340, Dec. 26.
Moisture determination. W. C. Anderson. 2,535,026, Dec. 26.
Mold: *See*—
Injection mold.
Mold for casting metals. R. D. Ables. 2,535,662, Dec. 26.
Molded objects. H. E. Shearer and A. R. Martin. 2,535,373, Dec. 26.
Molding hollow articles from refractory materials under heat and pressure. G. R. Watson. 2,535,180, Dec. 26.
Molding thermoplastic material by the injection molding method. C. E. Maynard. 2,535,436, Dec. 26.
Monazo dye. B. G. Carson. 2,535,121, Dec. 26.
Monument setter, Surveyor's. R. J. Cooke. 2,535,722, Dec. 26.
Motor: *See*—
Reversible air - operated motor.
Motor cycle frame. W. F. Lecamere. 2,535,540, Dec. 26.
Motor pump unit. A. R. Pezzillo, Jr. 2,535,695, Dec. 26.
Motor with means for heating the gas thereof exclusively in the heater element thereof, Five element hot-gas. H. Rinia, H. de Brey, F. L. van Weenen, Y. Boers, G. L. Sypkens, and W. J. van Heeckeren. 2,535,519, Dec. 26.
Mounting: *See*—
Instrument mounting.
Mounting. N. E. Lee. 2,535,080, Dec. 26.
Mounting for sheaves, etc. D. Firth. 2,535,729, Dec. 26.
Moving target indicator. R. H. Dicke. 2,535,274, Dec. 26.
Multiple bridge circuit. I. Warshawsky. 2,535,102, Dec. 26.
Multiple gap erase head for magnetic recording. H. Wolfe. 2,535,712, Dec. 26.
Nasal filter. V. H. Pandorf. 2,535,155, Dec. 26.
Navigational system. M. Wallace. 2,535,107, Dec. 26.
Needle, Knitting. B. Morrison. 2,535,315, Dec. 26.
Nitroalkanephosphonates. P. O. Tawney. 2,535,175, Dec. 26.
Nozzle with flame control means, Burner. C. W. Smith. 2,535,166, Dec. 26.
1-carbalkoxy-4-substituted piperazines. R. J. Turner and H. W. Stewart. 2,535,971, Dec. 26.
1, 10-phenanthroline, Production of. E. Hodel and H. Gysin. 2,535,417, Dec. 26.
Opener, Bobby pin. D. G. Stephenson. 2,535,170, Dec. 26.
Opener, Can. J. B. Flynn. 2,535,354, Dec. 26.
Opener, Letter and package. J. O. Tilly. 2,535,555, Dec. 26.
Organ, Electronic. A. M. Skellett. 2,535,323, Dec. 26.
Organ pipe assembly. C. W. McManis. 2,535,645, Dec. 26.
Ornament, Christmas tree. E. S. Margolis and H. A. Wachtel. 2,535,219, Dec. 26.
Oscillator, Microwave dynatron. E. R. Jervis. 2,535,137, Dec. 26.
Oscilloscope, High-speed. J. R. Pierce. 2,535,317, Dec. 12.
Oven, Baking. T. R. and W. Neutelings. 2,535,650, Dec. 26.
Oven door and window unit. H. E. Mills. 2,535,589, Dec. 26.
Overshoe with shank filler piece therein. K. C. Demick. 2,535,123, Dec. 26.
Package for knives. A. Paolantonio. 2,535,229, Dec. 26.
Paintbrush holder. R. A. Braswell. 2,535,260, Dec. 26.
Painting device for round surfaces. F. C. Phillips. 2,535,451, Dec. 26.
Paper machine. B. Trevisan. 2,535,970, Dec. 26.
Party identification in automatic telephony. J. E. Ostline. 2,535,509, Dec. 26.
Pencil attachment. L. C. Van Benschoten. 2,535,823, Dec. 26.
Peroxy-substituted persulfonates. F. F. Rust, A. R. Stiles, and W. E. Vaughan. 2,536,008, Dec. 26.
Petticoat. S. Roodner. 2,535,459, Dec. 26.
Photographic emulsions containing trinuclear cyanine dyes. T. R. Thompson. 2,535,995, Dec. 26.
Pickup circuit. W. E. Winterhalter and E. E. Vonada. 2,535,978, Dec. 26.
Pickup machine, Sugar beet. A. J. Poppie. 2,535,598, Dec. 26.
Pickup, Magnetic. R. J. Aust. 2,535,479, Dec. 26.
Picker stick check for looms. F. A. Ritchie. 2,535,814, Dec. 26.
Picture receiver, Frequency modulated. L. A. Thompson. 2,535,611, Dec. 26.
Piercing device for nipples. W. J. O'Neill, Jr. 2,535,594, Dec. 26.

Pipe for processing containers, Dip. S. W. McCann. 2,535,437, Dec. 26.
Pitter, Cherry. C. E. Ives. 2,535,928, Dec. 26.
Plant growth regulants. W. D. Stewart. 2,535,875, Dec. 26.
Plant growth regulants. W. D. Stewart. 2,535,877, Dec. 26.
Plant thinning and cultivating machine, Automatically controlled. F. Boncompain. 2,535,720, Dec. 26.
Plasterer's hawk. B. W. Dalton. 2,535,726, Dec. 26.
Plastic composition. R. W. Ivett and W. Koch. 2,535,290, Dec. 26.
Plasticizing synthetic rubber. D. J. Beaver and M. C. Throdahl. 2,535,664, Dec. 26.
Plate adjuster, Door strike. C. E. Miller. 2,535,444, Dec. 26.
Plate and dish warming dining table. O. Looft. 2,535,500, Dec. 26.
Plate, Division. L. Hopp and E. Mallman. 2,535,289, Dec. 26.
Plate positioning means in printing machines. F. E. Curtis. 2,535,725, Dec. 26.
Plating for electrodes, Protective. L. A. Wooten. 2,535,713, Dec. 26.
Playhouse and tent. H. R. Goodale. 2,535,792, Dec. 26.
Pliers. H. W. Stark and R. A. Grant. 2,535,375, Dec. 26.
Plug, socket, and panel assembly, Combination. J. W. Beatty. 2,535,031, Dec. 26.
Plunger for compression ignition engines, Injection. K. J. Fleck. 2,535,535, Dec. 26.
Polyallyl derivatives, Production of. E. M. Evans and H. T. Hookway. 2,535,533, Dec. 26.
Polyazo dyestuffs. P. Hindermann, W. Bossard, and A. Krebser. 2,535,416, Dec. 26.
Polymerizing vinyl acetate in granular form. G. Benson and R. L. Perks. 2,535,189, Dec. 26.
Polyvinyl compositions of improved resistance to light and making the same. A. F. G. Mouchiroud. 2,535,649, Dec. 26.
Portable carrying and sleeping container. E. V. Conrad. 2,535,531, Dec. 26.
Position indication and control system for moving objects or vehicles. L. M. Rodgers. 2,535,162, Dec. 26.
Position indicator system. H. G. Busignies. 2,535,038, Dec. 26.
Powder applicator for printing machines. J. C. and B. T. Sutton. 2,535,965, Dec. 26.
Power lift, Delayed acting. D. K. McGehee. 2,535,441, Dec. 26.
Power transmission apparatus. H. F. Hobbs. 2,535,924, Dec. 26.
Precision positioning mechanism. M. Romaine and E. G. Roehm. 2,535,957, Dec. 26.
Preheater for steam generating plants, Air. D. Dalin and G. V. Hagby. 2,535,047, Dec. 26.
Preheating system for internal-combustion engines. O. R. Schoenrock. 2,535,758, Dec. 26.
Preparation and packing of chopped meats. R. R. Fulton. 2,535,405, Dec. 26.
Press: *See*—
Cheese press. Fluid operated press.
Extrusion press. Wet press.
Press and control therefor, Fluid operated. G. Courl. 2,535,785, Dec. 26.
Pressure cap for radiators, Thermostatically controlled. W. M. Watkins, Jr. 2,535,974, Dec. 26.
Prestressing cement products. J. A. Sourwine. 2,535,100, Dec. 26.
Primary cell with electrodes of magnesium and magnesium permanganate. D. V. Louzos. 2,535,742, Dec. 26.
Printer and filter for use therewith, Photographic. F. G. Wilde. 2,535,770, Dec. 26.
Printing device. W. T. Gollwitzer. 2,535,733, Dec. 26.
Printing machine, Contact. S. W. Langdon. 2,535,145, Dec. 26.
Printing photographic or kinematographic films. F. Eichinger. 2,535,399, Dec. 26.
Producing stabilized drive belts. L. Edland. 2,535,124, Dec. 26.
Producing tiles, Method and apparatus for. D. W. Stewart, Jr., J. Mitchell, and C. V. Matthews. 2,535,241, Dec. 26.
Projection vibration indicator. B. W. Smith. 2,535,326, Dec. 26.
Propeller blade with a tubular backbone. F. A. Gruetjen. 2,535,917, Dec. 26.
Propeller, Model airplane. A. S. Barkley. 2,535,527, Dec. 26.
Proportional flow valve. A. R. Burgess. 2,535,835, Dec. 26.
Prospecting. G. Herzog. 2,535,066, Dec. 26.
Protector for cartons, Valved. R. A. Deutschman. 2,535,273, Dec. 26.
Pseudo-kryptogenins from kryptogenins, Production of. S. Kaufmann and G. Rosenkranz. 2,535,073, Dec. 26.
Psychometer, Electric. P. L. Wilhelm and F. D. Burns. 2,535,249, Dec. 26.
Pull apart separable fastener. L. H. Morin. 2,535,504, Dec. 26.
Puller: *See*—
Brush puller.
Pulley, Magnetic. K. A. Blind. 2,535,719, Dec. 26.
Pulp evaporator. E. H. Bickley. 2,535,777, Dec. 26.
Pump: *See*—
Rotary vane pump. Vacuum pump.
Pump. C. Knuth. 2,536,005, Dec. 26.
Pumping system. C. Kroll. 2,535,583, Dec. 26.
Purification of phosphor components. E. C. Payne. 2,535,986, Dec. 26.
Purifying device, Atmosphere. E. Cohn. 2,535,565, Dec. 26.
Pyrimidines and preparation of the same, Substituted. M. E. Hultquist and Y. Subbarow. 2,535,635, Dec. 26
Rack and selector, Phonographic record. H. H. Spillman. 2,535,609, Dec. 26.
Rack for firearms and the like, Automobile supporting. E. M. Campbell. 2,535,564, Dec. 26.
Rack for infants, Bathing. V. E. Boyington. 2,535,259, Dec. 26.
Radio antenna apparatus. L. Hammond. 2,535,850, Dec. 26.
Radio antenna system. W. J. Lattin. 2,535,298, Dec. 26.
Rail anchor. J. A. Hyle and S. L. Favinger. 2,535,739, Dec. 26.
Rail flaw detector mechanism. H. C. Drake, W. I. Bendz, and W. E. Mesh. 2,535,353, Dec. 26.
Range base. A. H. Brodbeck. 2,535,528, Dec. 26.
Rasp unit. P. C. Neilsen. 2,535,088, Dec. 26.
Razor and comb. H. Konrad. 2,536,015, Dec. 26.
Reading device, Timed. S. E. Taylor. 2,535,243, Dec. 26.
Reamer, Tapping hole. S. W. Kemock. 2,535,932, Dec. 26.
Reclaiming elastopers. J. H. Kelly, Jr. 2,535,931, Dec. 26.
Record transducing apparatus having a backing element for coupling a record tape to the magnetic head, Magnetic. A. P. Dunk. 2,535,486, Dec. 26.
Recorder, using a crater lamp, Photographic facsimile. L. A. Thompson. 2,535,610, Dec. 26.
Recorder, Well logging. H. R. Scivally. 2,535,096, Dec. 26.
Recording and reproducing apparatus, Magnetic. J. P. Arndt, Jr., C. B. Jones, and S. J. Begun. 2,535,478, Dec. 26.
Recording and reproducing, Magnetic. S. J. Begun. 2,535,480, Dec. 26.
Recording apparatus for seismic waves, Optical. A. J. Z. Caan. 2,535,348, Dec. 26.
Recovery of cyclotrimethylenetrinitramine. W. de C. Crater. 2,535,350, Dec. 26.
Recovery of glutamic acid and other values from Steffen waste water. A. N. Bennett. 2,535,117, Dec. 26.
Recovery of protein from keratineous materials. E. C. Koerner. 2,535,684, Dec. 26.
Reel: *See*—
Collapsible reel. Swiveled stepped bobbin fishing reel.
Fishing reel. fishing reel.
Lawn mower reel.
Refrigeration unit with cabinet structure, Removable. J. L. Fletcher, W. Pegiow, and T. G. Crider. 2,535,790, Dec. 26.
Refrigerator and water cooler. O. C. and S. O. Morrison, J. G. Wehrwein and E. A. Gott. 2,536,009, Dec. 26.
Refrigerator cabinet. J. L. Fletcher. 2,535,278, Dec. 26.
Refrigerator construction, Prefabricated. F. M. Jones. 2,535,682, Dec. 26.
Regulation of the action of machines for the continuous processing of materials, Automatic. E. H. Jones. 2,535,930, Dec. 26.
Relay, Multicontact dry reed. W. B. Ellwood. 2,535,400, Dec. 26.
Removing aluminum halides in hydrocarbon conversion processes. J. L. Groebe and E. F. de Villafranca. 2,535,735, Dec. 26.
Resiliently supported reclining chair. A. E. Johnson. 2,535,138, Dec. 26.
Resistor and making the same. G. J. Mucher. 2,535,808, Dec. 26.
Retransmitter system and impulse corrector. P. Pellé. 2,535,754, Dec. 26.
Return device for picker sticks. G. B. Reel. 2,535,867, Dec. 26.
Reversible air-operated motor. H. L. Bowditch. 2,536,000, Dec. 26.
Rheostat, Carbon pile. E. P. Turner. 2,536,012, Dec. 26.
Rhodanic acid and oxarhodanic acid derivatives. H. D. Edwards and J. D. Kendall. 2,535,276, Dec. 26.
Ridge grinding tool. E. M. McGovern and P. Schrick. 2,535,587, Dec. 26.
Rifle target, Self-sealing. R. D. Gartrell. 2,535,280, Dec. 26.
Ring: *See*—
Seal ring.
Ringing control circuit. M. C. Goddard. 2,535,675, Dec. 26.
Rocket. C. N. Mari. 2,535,309, Dec. 26.
Roof pitch sight gauge. F. Hansen. 2,535,411, Dec. 26.
Rotary rolling mill guide. W. T. Wehman. 2,535,976, Dec. 26.
Rotary vane pump. C. W. Cline. 2,535,267, Dec. 26.
Rotatable wave guide joint. A. Alford. 2,535,251, Dec. 26.
Round and sectional boiler. O. Muller. 2,535,507, Dec. 26.
Rubber band gun. W. L. Bozarth. 2,535,891, Dec. 26.
Rubber composition, Vulcanizable. E. R. Williams. 2,535,524, Dec. 26.
Ruler, Roof. K. B. Marquiss. 2,535,585, Dec. 26.

Safety switch. C. E. and Z. E. Hook. 2,535,207, Dec. 26.
Sand drier. B. R. Smith. 2,535,605, Dec. 26.
Saw, Meat. E. A. Anderson and L. C. Roberts. 2,535,714, Dec. 26.
Saw, Radial arm power. L. A. Epplin. 2,535,908, Dec. 26.
Saw, Stroke. P. C. Felton. 2,535,491, Dec. 26.
Scraper, Sidewalk and floor. W. M. Anderson. 2,535,253, Dec. 26.
Screw driver or the like, Torque. F. P. Kruse. 2,535,293, Dec. 26.
Seal, Pressure. E. G. Honkanen. 2,535,288, Dec. 26.
Seal ring. B. W. Hubbard. 2,535,634, Dec. 26.
Sealed housing for an electrical condenser and sealing the condenser in the housing. D. H. J. Rhodes. 2,535,517, Dec. 26.
Sealed wet end for paper machines. J. E. Goodwillie. 2,535,732, Dec. 26.
Sealing compound, Thiourea impregnated. J. L. Schneider and R. J. Evans. 2,535,869, Dec. 26.
Sear mechanism. W. L. Weeks. 2,535,709, Dec. 26.
Seat: *See*—
  Automobile seat.
Seed ejector for rotary trap chamber type seed planters. P. E. Milton. 2,535,222, Dec. 26.
Self-sealing coupling. F. E. Payne. 2,535,694, Dec. 26.
Self-sealing spherical mixing valve. H. H. Kersten. 2,535,580, Dec. 26.
Separating machine, Potato. P. La Pointe. 2,535,801, Dec. 26.
Separation of organic oxygenated compounds from hydrocarbons. E. A. Johnson. 2,535,069, Dec. 26.
Separation of organic oxygenated compounds from hydrocarbons. S. W. Walker. 2,535,071, Dec. 26.
Separation of organic oxygenated compounds from hydrocarbons. S. W. Walker and J. E. Latta. 2,535,070, Dec. 26.
Separator: *See*—
  Centrifugal separator.
Servomotor. K. S. Curry, Jr. 2,535,046, Dec. 26.
Shaker Condiment. F. W. Galvin and L. J. Koch. 2,535,013, Dec. 26.
Sharpener, Saw. J. McEwan. 2,535,439, Dec. 26.
Sheet material from rubber, Production of. B. R. Billmeyer. 2,535,034, Dec. 26.
Sheet metal cutting tool. C. B. Gray. 2,535,631, Dec. 26.
Sheets or webs of fibrous textile materials, Manufacture of. F. Happey and J. H. Grimes. 2,535,919, Dec. 26.
Shield, Garment hanger. W. R. Kohl and A. L. Iverson. 2,535,685, Dec. 26.
Shingle and strip, Metal. A. Alvarez, Jr. 2,535,620, Dec. 26.
Shipping case. A. Ross. 2,535,233, Dec. 26.
Shock absorber for railway car trucks, Friction. G. E. Dath. 2,535,198, Dec. 26.
Shock absorbing mechanism for railway draft riggings. G. E. Dath. 2,535,197, Dec. 26.
Shoe for hunting dogs. H. B. Davis. 2,535,394, Dec. 26.
Shoe heel. J. W. Taylor. 2,535,102, Dec. 26.
Shoe with maximally-downturned sole. R. I. Barr. 2,535,560, Dec. 26.
Shore, Adjustable. W. H. Kenney and F. C. Newburg. 2,535,141, Dec. 26.
Shutter for use in building constructions. B. A. Fama. 2,535,277, Dec. 26.
Shuttle. T. B. Mortimer. 2,535,806, Dec. 26.
Sidetone correction winding in telephone receiver. G. Dal Monte. 2,535,903, Dec. 26.
Signal: *See*—
  Traffic signal.
Signaling equipment only operative by two-voice frequencies, Selective. S. Van Mierlo. 2,535,104, Dec. 26.
Signaling system. W. L. Shafer. 2,535,872, Dec. 26.
Silencer with plural passages, Air-cooled. E. Wynn. 2,535,660, Dec. 26.
Silica, Manufacture of finely divided. D. B. Broughton. 2,537,036, Dec. 26.
Silicon steel of high-directional permeability, Producing. J. M. Jackson. 2,535,420, Dec. 26.
Sink, Lavatory, and commode cleaner. F. S. Rettinger. 2,535,092, Dec. 26.
Siren giving sharp tones of short duration, Air. E. S. Russell. 2,535,520, Dec. 26.
Skate, Roller. R. L. Biddle. 2,535,887, Dec. 26.
Skate, Roller. M. Collier. 2,535,566, Dec. 26.
Slab gripping device. J. E. Frame. 2,535,911, Dec. 26.
Slice roll assembly for paper machine presses. G. F. Hrubecky. 2,535,738, Dec. 26.
Sludge drain for airbrake systems, Automatic. O. R. Sherman and S. Jacovelli. 2,535,760, Dec. 26.
Snap spring operated switch. J. F. O'Brien and E. S. Boynton. 2,535,090, Dec. 26.
Soaps containing halogenated dihydroxy diphenyl methanes, Germicidal. E. C. Kunz and W. S. Gump. 2,535,077, Dec. 26.
Socket, Radio tube. B. J. Johanson. 2,535,578, Dec. 26.
Socket receptacle having body and closure member therefor. C. E. Gilbert. 2,535,356, Dec. 26.
Socket with floating contacts, Miniature acorn-tube. E. Toth. 2,536,011, Dec. 26.
Sodium nitrate, Production of. L. A. Stengel. 2,535,990, Dec. 26.
Soil road and producing same, Stabilized. G. E. Martin. 2,535,644, Dec. 26.
Solder analyzer. F. L. Kurek. 2,535,855, Dec. 26.
Soldering the side seams of can bodies, Method of and apparatus for. A. M. Cameron and S. R. Johnson. 2,535,826, Dec. 26.
Sound-locating equipment. R. R. Howard and R. N. Himmel. 2,535,134, Dec. 26.
Sound recording system. R. M. Somers. 2,535,657, Dec. 26.
Space discharge device. J. C. Ferguson. 2,535,055, Dec. 26.
Spectrometer, Radio-frequency mass. W. H. Bennett. 2,535,032, Dec. 26.
Speed changer V-belt pulley. R. H. Carmean. 2,535,668, Dec. 26.
Speed variator. J. Arter. 2,535,028, Dec. 26.
Spinning of viscose. N. L. Cox. 2,535,044–5, Dec. 26.
Spinning of viscose. N. L. Cox. 2,536,014, Dec. 26.
Spinning top with attached flexible ball chain member. J. T. Radovan. 2,535,157, Dec. 26.
Spit, Foldable roasting. C. W. Porter. 2,535,548, Dec. 26.
Spoons or the like, Manufacturing. J. N. Gehred. 2,535,406, Dec. 26.
Spout, Oilcan, structure and attaching the spout. J. Coyle. 2,535,837, Dec. 26.
Sprayer. K. G. Wanke. 2,535,469, Dec. 26.
Spring plug for watch band attachments. B. Milner. 2,536,007, Dec. 26.
Spring support. A. J. Loepsinger. 2,535,305, Dec. 26.
Sprinkler, Lawn. F. C. Coombs. 2,536,723, Dec. 26.
Stabilization of monomeric 1,1-dicyano ethylene. F. F. Miller. 2,535,861, Dec. 26.
Stabilization process. W. K. T. Gleim and J. A. Chenicek. 2,535,058, Dec. 26.
Stabilized thermoplastic cellulose ether composition. W. Koch and G. H. Pyle. 2,535,361, Dec. 26.
Stage for microscopes, Mechanical. B. G. Gallasch. 2,535,128, Dec. 26.
Stall relief for forging presses and the like. W. W. Criley. 2,535,842, Dec. 26.
Stand: *See*—
  Mill roll stand.
Stand and tray, Adjustable bedside. R. B. Woody. 2,535,112, Dec. 26.
Stapler, Hand. F. S. Boroughs. 2,535,482, Dec. 26.
Stapling machine. J. R. Mackey. 2,535,306, Dec. 26.
Stationary safety jack. C. L. Genesen. 2,535,407, Dec. 26.
Steam heater. M. M. Marks. 2,535,941, Dec. 26.
Steel wire, Cold-drawing. A. W. Harris. 2,535,284, Dec. 26.
Steering column support and instrument panel, Combination. K. E. Lyman. 2,535,744, Dec. 26.
Step display, Collapsible. E. M. Roach. 2,535,160, Dec. 26.
Stereoscopic plotting machine. P. B. Kail. 2,535,213, Dec. 26.
Sterilizer. C. Marshall. 2,535,365, Dec. 26.
Stoker, including gas feedback prevention means. P. C. Malmsten. 2,535,939, Dec. 26.
Storing natural gas. H. A. Martin, A. R. Young, and H. M. Nelly, Jr. 2,535,148, Dec. 26.
Storm window and screen assembly. W. W. Moore. 2,535,314, Dec. 26.
Strand starting mechanism, Automatic. R. R. Bastian. 2,535,561, Dec. 26.
String for musical instruments. J. Kosmis, Jr. 2,535,143, Dec. 26.
Strip annealing. J. French. 2,535,983, Dec. 26.
Strip assembly for highways and the like, Parting. J. H. Jacobson. 2,535,135, Dec. 26.
Structure and producing it, Twisted yarn-like. W. L. Thompson, Jr. 2,535,376, Dec. 26.
Stud removing tool. R. E. Jones. 2,535,638, Dec. 26.
Submarine detecting device. E. A. Johnson. 2,535,068, Dec. 26.
Sulfanilyl piperazines and preparing same. S. Kushner and V. K. Smith, Jr. 2,535,934, Dec. 26.
Superregenerative receiver. R. C. Emerson. 2,535,401, Dec. 26.
Supplying coolant to grinding wheels, Method and apparatus for. J. C. Wilson. 2,535,184, Dec. 26.
Support: *See*—
  Dump truck chute support. Spring support.
Support for telephones, Head. W. R. Cole. 2,535,269, Dec. 26.
Supporting device for bottles and other receptacles on filling, stoppering, capsuling, and the like machines. R. Détrez. 2,535,272, Dec. 26.
Surgical clamp. M. Wolf. 2,535,559, Dec. 26.
Swing, Twin seat lawn. C. J. Kliss. 2,535,800, Dec. 26.
Swinging telephone bracket. W. B. Stone. 2,535,330, Dec. 26.
Switch: *See*—
  Electric switch. Safety switch.
  Electronic switch. Snap spring operated switch.
  Fuse switch.
  Mailbox switch.
Switch apparatus, Antitheft. E. J. Mead. 2,535,366, Dec. 26.
Switch for hydraulic brakes, Safety. E. C. Malvin. 2,535,940, Dec. 26.
Switch for overhead tracks. S. Le Fiell. 2,535,541, Dec. 26.
Switch for the light systems of vehicles, Safety. R. E. Denslow. 2,535,271, Dec. 26.

Switch for vehicles, Inertia cutoff. K. R. Batt. 2,535,384, Dec. 26.
Switch of the crossbar type. J. Wicks. 2,535,769, Dec. 26.
Swiveled stepped bobbin fishing reel. J. E. Mitchell. 2,535,746, Dec. 26.
Synchronizing circuit. E. L. C. White and E. A. Newman. 2,535,247, Dec. 26.
Synchronous filter. G. R. Clark. 2,535,040, Dec. 26.
Synthesis of thioethers. R. T. Bell. 2,535,831, Dec. 26.
Synthesizing gasoline and the like. H. V. Atwell. 2,535,343, Dec. 26.
Tab, Phonograph record identification. E. L. Brownsey. 2,535,262, Dec. 26.
Table: *See*—
  Buttery-charging table. Plate and dish warming table.
  Folding table. dining table.
Table and runway apparatus, Pocketed game. B. C. H. Park and J. L. Baldwin. 2,535,595, Dec. 26.
Table top for a drafting table or the like, Metal. A. S. Murray. 2,535,593, Dec. 26.
Table with flexible top, Folding. J. F. Hart. 2,535,921, Dec. 26.
Tank construction, Electrolytic. W. L. Brytczuk. 2,535,780, Dec. 26.
Tank for tractor-implement combination, Auxiliary fuel. R. G. Le Tourneau. 2,535,301, Dec. 26.
Tank fuel system, Continuous flow multiple. D. Samiran. 2,535,094, Dec. 26.
Telemetering system. W. J. Poch. 2,535,547, Dec. 26.
Telephone system. J. E. Ostline. 2,535,511–12, Dec. 26.
Telephone system, Relay automatic. J. H. Voss and R. W. Jones. 2,535,764, Dec. 26.
Telescopic standard or arm. F. H. Maack. 2,535,803, Dec. 26.
Television apparatus, Color. A. C. Schroeder. 2,535,552, Dec. 26.
Television camera circuits, Frequency-compensated. J. F. Wiggin. 2,535,711, Dec. 26.
Television transmitter switching apparatus. E. L. C. White and F. R. Trott. 2,535,471, Dec. 26.
Tension testing apparatus for electric sockets and wire connections. J. Sakirsky. 2,535,988, Dec. 26.
Tent or cabana structure, Portable. P. V. Williams. 2,535,618, Dec. 26.
Terminal and seal construction for electric lamps and similar devices. J. Yoder. 2,535,773, Dec. 26.
Testing device for line identifying equipment. J. E. Ostline. 2,535,513, Dec. 26.
Tetraalkyllead, Manufacture of. H. Shapiro. 2,535,235, Dec. 26.
Tetraalkyllead, Preparation of. H. Shapiro. 2,535,236–7, Dec. 26.
Thermocouple for gas or oil burners. W. A. Ray. 2,535,602, Dec. 26.
Thermometer tube. C. O. Fairchild. 2,535,628, Dec. 26.
Thermometer tube. C. O. Fairchild. 2,535,629, Dec. 26.
Thiazolone cyanine dye intermediates. T. R. Thompson. 2,535,992, Dec. 26.
Thread cutter. G. N. Kumbera. 2,535,294, Dec. 26.
3-phosphonopropane-1,1,-dicarboxylic acid esters and preparation. P. O. Tawney. 2,535,173, Dec. 26.
Timing device. O. H. Niendorff. 2,535,809, Dec. 26.
Timing device for feeding articles from multiple to single rows. R. M. McPherson. 2,535,859, Dec. 26.
Timing device for washing machines. T. R. Smith. 2,535,168, Dec. 26.
Timing mechanism. T. Rapp. 2,535,371, Dec. 26.
Timing mechanism, Electrically synchronized. J. J. Kennedy and R. Olinger. 2,535,214, Dec. 26.
Tire loosening tool. S. Boger and D. V. Davis. 2,535,562, Dec. 26.
Tire traction cover. A. and J. Leach. 2,535,299, Dec. 26.
Tool: *See*—
  Bore finishing tool. Ridge grinding tool.
  Dovetail tool. Sheet metal cutting tool.
  Expansion and contraction tool. Stud removing tool.
  Gripping or cutting hand tool. Tire loosening tool.
  Troweling tool.
Tool joint. J. R. Richardson. 2,535,320, Dec. 26.
Top with folding seats, Auxiliary. C. C. Stuart. 2,535,242, Dec. 26.
Torch, Oxygen-acetylene. J. E. Smith. 2,535,873, Dec. 26.
Torque controlling mechanism. M. J. Burger and G. F. Clement. 2,535,667, Dec. 26.
Toy, Animated. G. A. Purdum. 2,535,230, Dec. 26.
Toy, Basketball. C. L. Oczkowski. 2,535,225, Dec. 26.
Toy, Educational. J. H. Wright. 2,535,619, Dec. 26.
Toy, Jumping frog. R. Q. Roberts. 2,535,868, Dec. 26.
Toy pistol. M. Fleishman. 2,535,402, Dec. 26.
Toy tenpin game. F. Voges. 2,535,973, Dec. 26.
Toy, Wheeled. A. J. Dube. 2,535,396, Dec. 26.
Tractor, Garden. J. F. Attwell. 2,535,254, Dec. 26.
Tractor, Garden. S. W. Shaw. 2,535,701, Dec. 26.
Tractor, Garden. C. Van Ausdall. 2,535,614–15, Dec. 26.
Traffic signal. W. F. Freeman. 2,535,200, Dec. 26.
Train fusee discharger. H. E. Temple. 2,535,820, Dec. 26.
Transducer, Peripherally driven electroacoustical. J. J. Root. 2,535,757, Dec. 26.
Transformer, Close-coupled electrical. W. H. Thurston. 2,535,554, Dec. 26.
Transformer connection and phase-angle indicator, Three-phase. E. S. Warner. 2,535,767, Dec. 26.
Transformer construction, High-frequency. E. I. Guthman. 2,535,203, Dec. 26.
Transformer, Variable output. S. Oestreicher. 2,535,154, Dec. 26.
Translation system. J. R. Zeekman. 2,535,341, Dec. 26.
Transmission, Change-speed. C. H. Herr, Jr. 2,535,632, Dec. 26.
Transmission coupling device. G. E. Burks, J. W. Bridwell, G. T. Lundberg, and A. W. Sieving. 2,535,388, Dec. 26.
Transmission, Hydraulic. H. Ernst and A. H. Dall. 2,535,909, Dec. 26.
Transmission, Variable-speed. L. A. Graham. 2,535,409, Dec. 26.
Transmitter, Ultra high frequency radio. R. S. Hope. 2,535,067, Dec. 26.
Trap: *See*—
  Draft trap.
Traverse. H. C. Howsam. 2,535,737, Dec. 26.
Tray attachment for adding machines, typewriters, and the like. C. A. Lundahl. 2,535,743, Dec. 26.
Tray for administering enemas to babies, Irrigation. V. C. Thompson. 2,535,336, Dec. 26.
Tray, Ice. R. S. Taylor. 2,535,176, Dec. 26.
Tread and guide, Escalator step. R. F. Loughridge. 2,535,501, Dec. 26.
Treating clay. N. Millman and J. B. Whitley. 2,535,647, Dec. 26.
Treating ferrites. E. Albers-Schoenberg. 2,535,025, Dec. 26.
Treatment of materials consisting wholly or partly of wool. R. P. Foulds. 2,535,846, Dec. 26.
Treatment of materials containing tungsten compounds. K. C. Li and C. M. Dice. 2,535,217, Dec. 26.
Treatment of unrendered fat with nordihydroguaiaretic acid. A. Fonyo. 2,535,910, Dec. 26.
Tree banding composition, Selective. B. Hubert. 2,535,209, Dec. 26.
Trinuclear cyanine dyes containing a terminal 5- and 6-membered heterocyclic ring system, Preparing. T. R. Thompson. 2,535,994, Dec. 26.
Trinuclear cyanine dyes, Preparing. T. R. Thompson. 2,535,993, Dec. 26.
Trouser fly construction. N. Di Pietro. 2,535,487, Dec. 26.
Troweling tool. G. B. Crippen. 2,535,568, Dec. 26.
Truck, Moving. W. F. Roberts. 2,535,457, Dec. 26.
Tube: *See*—
  Electrooptical dark trace storage tube. Inner tube.
  Grid-controlled electron tube. Thermometer tube.
Tube tester, Centrifugal vacuum. R. G. Quick. 2,535,091, Dec. 26.
Tubular winding core. D. O. Beckner. 2,535,188, Dec. 26.
Tuning accordions. R. R. Rieschick. 2,535,813, Dec. 26.
Turbidity detector. A. D. Way. 2,535,181, Dec. 26.
Turbine pedestal arrangement. O. N. Bryant. 2,535,037, Dec. 26.
Two-cycle low-boiling fuel injection engine. E. P. Dumanois and L. Poincaré. 2,535,532, Dec. 26.
2-mercapto-3-amino-3,6-dihydropyrimidines. R. A. Mathes and F. D. Stewart. 2,535,858, Dec. 26.
2-mercapto-3,6-dihydropyrimidine-3-monocarboxylic acids and esters of these acids. R. A. Mathes and F. D. Stewart. 2,535,857, Dec. 26.
Typewriter tabulator stop mechanism. J. F. Koca. 2,535,358, Dec. 26.
UF_6, Preparation of. R. M. Hainer. 2,535,572, Dec. 26.
Ultra high frequency signal generator. A. V. Haeff, T. E. Hanley, and C. B. Smith. 2,535,062, Dec. 26.
Ultramarine, Making. A. E. Gessler and C. A. Kumins. 2,535,057, Dec. 26.
Upsetting a hollow rivet. H. A. Lebert. 2,535,079, Dec. 26.
Urea formaldehyde resinous product. B. E. Anderson. 2,535,475, Dec. 26.
Vacuum cleaner. M. G. Sisemore. 2,535,963, Dec. 26.
Vacuum cleaner with automatic nozzle height adjustment. A. W. Seyfried. 2,535,322, Dec. 26.
Vacuum gauge. E. W. Flosdorf. 2,535,492, Dec. 26.
Vacuum operated door lock. R. B. Hill. 2,535,574, Dec. 26.
Vacuum pump. K. C. D. Hickman. 2,535,796, Dec. 26.
Valve: *See*—
  Constant flow mixing valve. Proportional flow valve.
  Cutoff valve. Self-sealing spherical mixing valve.
  Gate valve.
Valve. R. W. Mattison. 2,535,310, Dec. 26.
Valve for pressing machines and the like, Fluid chamber connecting. N. Monsarrat. 2,535,590, Dec. 26.
Valves with resistance igniter, Ionic. E. Uhlmann. 2,535,467, Dec. 26.
Vapor phase converted hydrocarbons, Production of. W. W. Holland. 2,535,418, Dec. 26.
Vaporizer and mixing device, Gaseous fluid. S. P. Grevas. 2,535,410, Dec. 26.
Vaporizer, Lamp. P. Libson. 2,535,802, Dec. 26.
Vaporizing oil burner. V. H. Hill. 2,535,923, Dec. 26.

Variable condenser. B. B. Minnium. 2,535,367, Dec. 26.
Vending machine, Disk record. J. F. Sweeney, E. T. Able, and I. A. MacKay. 2,535,332, Dec. 26.
Venetian blind. J. L. Hunter and T. Martin. 2,535,926, Dec. 26.
Venetian blind. M. J. Narduilli. 2,535,751, Dec. 26.
Ventilating device for a kitchen and a kitchen stove. W. A. Pledger. 2,535,863, Dec. 26.
Ventilator, Window and wall. O. Kubatzky. 2,535,933, Dec. 26.
Vertical and horizontal axes roundabout. B. B. Pewitt. 2,535,862, Dec. 26.
Vibrator-exciting action. B. F. Miessner. 2,535,503, Dec. 26.
Video gating circuit. E. Frank and R. F. Mozley. 2,535,912, Dec. 26.
Vinyl resin plasticized sheets, Preparing. G. P. Mack. 2,535,643, Dec. 26.
Visor mounting device. A. D. Brundage. 2,535,894, Dec. 26.
Visor mounting device. C. S. Jacobs. 2,535,929, Dec. 26.
Voltage cutout for low-voltage systems, Excess. K. V. Jørgensen. 2,535,423, Dec. 26.
Voltage divider circuit. B. M. Oliver. 2,535,811, Dec. 26.
Voltage regulation and supply. D. K. Froman. 2,535,355, Dec. 26.
Volume control, Automatic. R. F. Smeltzer. 2,535,325, Dec. 26.
Wall and floor, Ventilated. M. Miller. 2,535,691, Dec. 26.
Washer: *See*—
Clothesline washer.
Washing machine with gas supply means. M. R. Cole. 2,535,901, Dec. 26.
Watch, Geographical multiple dial. B. and B. L. Maizlish. 2,535,543, Dec. 26.
Water inlet and vacuum release for collapsible bag type washers and extractors. W. F. Oliver. 2,535,226, Dec. 26.
Wave analyzer. G. W. Cook. 2,535,043, Dec. 26.
Wax compositions, Preparing. K. F. Schiermeier and W. E. Heinz. 2,535,604, Dec. 26.
Weaner, Calf. J. R. Rhinehart. 2,535,158, Dec. 26.
Welder, Portable manual electric spot. A. C. Mulder. 2,535,946, Dec. 26.
Wet press. B. Liebowitz. 2,535,642, Dec. 26.
Wheel cover. G. A. Lyon. 2,535,081, Dec. 26.
Wheel for motor vehicles, Auxiliary. E. Craig. 2,535,567, Dec. 26.
Wheelbarrow with weighing means. C. O. Bull. 2,535,264, Dec. 26.
Whip roll mechanism for looms. J. E. Repass. 2,535,515, Dec. 26.
Winder, Armature. L. D. McCollom. 2,535,438, Dec. 26.
Winding machine, Thread. W. E. Mahoney. 2,535,984, Dec. 26.
Window construction. R. G. Johnson. 2,535,496, Dec. 26.
Wing cutter. W. Bennett, Jr. 2,535,717, Dec. 26.
Wiper attachment, Windshield. C. A. McIntyre and W. E. Barden. 2,535,805, Dec. 26.
Wire gripping assembly and casing connector. S. P. Becker. 2,535,623, Dec. 26.
Woodgrooving machines, Uniform depth of cut. L. A. Weaver. 2,535,182, Dec. 26.
Wringer head mechanism. C. E. Morgenstern and R. E. Lake. 2,535,748, Dec. 26.
X-ray generator. J. J. Vlach. 2,535,708, Dec. 26.
Zero set for parking time meters, Delayed-action. S. K. Wood. 2,535,472, Dec. 26.
Zirconia and producing same, Stabilized. A. H. Ballard and D. W. Marshall. 2,535,526, Dec. 26.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 26, 1950

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number

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